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55th CONSOLIDATED MONTHLY **EM&A REPORT**

May 2021

Client	:	Civil Engineering and Development Department, HKSAR
EP No.	:	EP-337/2009 – New Distributor Roads Serving the Planned Kai Tak Development Area
Contract No.	:	KLN/2016/05 – Independent Environmental Checker for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area
Report No.	:	0087/16/ED/1125

Prepared by	:	Wingo So		
Reviewed by	:	Calvin Leung		
		/		

Certified by :

Colin Yung

Independent Environmental Checker Fugro Technical Services Limited



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EXECUTIVE SUMMARY

- i. This is the 55th Consolidated Monthly EM&A Report which summaries the EM&A works undertaken by respective contract under EP-337/2009 within the period between 1 May and 31 May 2021.
- ii. The construction activities undertaken in the reporting month are summarized as follow:

Contract No. KL/2014/01:

- TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road;
- Laying of paving blocks for footpath;
- Erection of noise barrier panels;
- Planting works along footpath and at deck level;
- Architectural features works at landscaped deck and ground floor open space;
- E&M works;
- Remedial Work of Holding Down Bolts of noise barrier;
- Construction of pedestrian streets; and
- Dismantle of temporary working platform at Kai Tak Bridge.

Contract No. KL/2015/02:

- Carry out trail pit excavation at TTA Stage 4-3
- Carry out backfilling works around subway at SKLR Playground
- Carry out testing and commissioning on Lift LT3
- Carry out finishing works inside the subway
- Carry out E&M works inside the subway
- Installation of traffic signs and directional signs along Bridge K72
- · Installation of cover plates for movement joint
- Underground E&M, lighting and irrigation works at Road D1
- Road Works at Road D1 and near PERE
- Modification of existing sewerage manhole Road D1
- Landscaping works at Road L7 and Road D1

Contract No. ED/2018/01:

- North Approach Ramp Construction of wall, intermediate slab and column
- Bridge D3 Construction of pile cap and pier
- North Depressed Road Construction of wall & top slab / dismantling of wailing & strut of cofferdam
- Underpass Excavation, construction of base slab and backfilling, Construction of wall & top slab
- South Approach Ramp Installation of sheet pile and excavation, construction of base slab and erection of formwork
- Landscaped Deck Construction of bored piles
- District Cooling System seawater intake box culvert Construction of cofferdam and box structure
- Noise barrier Installation of steel structure and PMMA panel, backfilling of haul road
- Lift 3 Construction of cofferdam for footing Lift 4 Excavation for footing
- South Depressed Road Excavation and Installation of Lateral Support works

Contract No. ED/2018/05:

- Construction of box culvert
- Pre-drilling work for S14

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- Pre-drilling works and trial pit excavation
- Drainage works for Pedestrian Street No. 1 & No. 2

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- Temporary road diversion at Sa Po Road
- Drainage works for Crowd Dispersal Route
- Bored pile works for landscape elevated walkway
- Removal existing piles at Road D1
- Instrumentation installation at SB-01
- Rising main construction

Breaches of the Action and Limit Levels

- iii. No Action / Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.
- iv. No Action / Limit Level exceedance was recorded for 1-hr TSP monitoring in the reporting month.
- v. No Action / Limit Level exceedance was recorded for noise monitoring in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

vi. No complaint, notification of summons or prosecution was received in this reporting month.

Reporting Changes

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



Future Key Issues

Hong Kong.

viii. The potential environmental impacts for the coming month and the control measures are shown in **Table I**:

Table I Summary	/ of Key I	ssues for the	Coming Month	and Control Measures
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Major Impact Prediction	Control Measures		
Contract No. KL/2	<u>014/01:</u>		
Air quality impact (dust)			
Water quality impact (surface run-off)	 Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and Provision of measures to prevent discharge into the stream. 		
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; Controlling the number of plants use on site; Regular maintenance of machines; and Use of acoustic barriers if necessary. 		
Waste/ Chemical Management	 Maintenance involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. Chemical wastes should be hold by suitable containers with clear label and stored at a safe location. 		
Contract No. KL/2	015/02:		
Air quality impact (dust)	 Frequent watering of haul road and unpaved/exposed areas; Frequent watering or covering stockpiles with tarpaulin or similar means; and Watering of any earth moving activities. 		
Water quality impact (surface run-off)	 Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and Provision of measures to prevent discharge into the stream. 		
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; Controlling the number of plants use on site; Regular maintenance of machines; and Use of acoustic barriers if necessary. 		
Contract No. ED/2	018/01:		
Air Quality, Construction Noise, Water Quality, Chemical and	 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), 		

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Major Impact Prediction	Control Measures
Waste Management, Landscape and Visual	 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.
Contract No. ED/2	
Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual	 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.



1. INTRODUCTION

1.1 Background

- 1.1.1 The Kai Tak Development 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.
- 1.1.2 A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 March 2009.
- 1.1.3 The EP-337/2009 was issued on 23 April 2009 for the new distributor roads serving the planned Kai Tak Development to the following scale and slope:
 - a) Road D1 a dual 2-lane carriageway of approximately 1.3 km long.
 - b) Road D2 a dual 3-lane carriageway of approximately 1.1 km long.
 - c) Road D3 a dual 2-lane carriageway of approximately 2.3 km long.
 - d) Road D4 a dual 2-lane carriageway of approximately 0.9 km long.
- 1.1.4 The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the role of Independent Environmental Checker (IEC) for the Contract No. KL/2015/02.
- 1.1.5 This is the 55th Consolidated Monthly EM&A Report which summaries the EM&A works undertaken by respective contract under EP-337/2009 within the period between 1 May and 31 May 2021.

Party	Position	Name	Telephone	Fax
Contract No. KL/2014/0	1:			
Project Proponent	Senior Engineer	Mr. Keith Chu	3579 2450	3579 4516
(CEDD)	Engineer	Ms. Adonia Yung	3579 2124	3579 4516
Engineer's Representative (AECOM)	CRE	Mr. Clive Cheng	3746 1801	2798 0783
IEC (KSMC)	IEC	Dr. Douglas Wong	2618 2166	2120 7752
	ET Leader	Mr. K.S Lee	2151 2091	
ET (Cinotech)	Audit Team Leader	Ms. Betty Choi	2151 2072	3107 1388
Main Contractor (CCJV)	EO	Mr. Jack Lai	2960 1398	2960 1399
Contract No. KL/2015/02:				
Project Proponent (CEDD)	Senior Engineer	Mr. Ricky Chan	2116 3753	2116 0714
Engineer's Representative (AECOM)	SRE	Mr. Vincent Lee	2798 0771	2210 6110
IEC (FTS)	IEC	Mr. Colin Yung	3565 4114	2450 8032
	ET Leader	Mr. K.S Lee	2151 2091	
ET (Cinotech)	Audit Team Leader	Ms. Betty Choy	2151 2072	3107 1388
Main Contractor	Site Agent	Mr. W. M. Wong	6386 3535	2398 8301

1.2 Summary of relevant Contract Information of Key Personnel

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Party	Position	Name	Telephone	Fax	
(PWHJV)					
Contract No. ED/2018/0	<u>1:</u>				
Project Proponent	Senior Engineer	Mr. Ronald Siu	3579 2452	2739 0076	
(CEDD)	Engineer	Ms. Chan Ka Yan	3579 2458	2739 0076	
Engineer's Representative (AECOM)	CRE	Mr. Clive Cheng	3911 4201	3911 4288	
IEC (Ramboll)	IEC	Mr. Y H Hui	3465 2850	3465 2899	
ET (Ka Shing)	ET Leader	Mr. Chan Pang	6082 2973	2120 7752	
Main Contractor (Penta-Ocean)	EO	Mr. Lulu Mar	6845 0626	3465 8898	
Contract No. ED/2018/0	Contract No. ED/2018/05:				
Project Proponent	Senior Engineer	Mr. George Ng	3842 7107	3842 7107	
(CEDD)	Engineer	Mr. Kinox Wong	3842 7137	3842 7137	
Engineer's Representative (AECOM)	CRE	Mr. Leung Wai Kit	2412 3410	2798 0783	
IEC (Acuity)	IEC	Mr. Kevin Li	2698 6833	2698 9383	
ET (Ka Shing)	ET Leader	Ir. Chan Pang	2618 2166	2120 7752	
Main Contractor (BK- STEC)	EO	Mr. Raymond Lam	9713 6817	3850 8508	

1.3 Summary of Construction Programme and Activities

- 1.3.1 The construction programme of each Contract is summarized in the appendices of the corresponding Monthly EM&A report.
- 1.3.2 The major construction activities undertaken in the reporting month are summarized as follow:

Contract No. KL/2014/01:

- TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road;
- Laying of paving blocks for footpath;
- Erection of noise barrier panels;
- Planting works along footpath and at deck level;
- Architectural features works at landscaped deck and ground floor open space;
- E&M works;
- Remedial Work of Holding Down Bolts of noise barrier;
- Construction of pedestrian streets; and
- Dismantle of temporary working platform at Kai Tak Bridge.

Contract No. KL/2015/02:

- Carry out trail pit excavation at TTA Stage 4-3
- Carry out backfilling works around subway at SKLR Playground
- Carry out testing and commissioning on Lift LT3
- Carry out finishing works inside the subway
- Carry out E&M works inside the subway
- Installation of traffic signs and directional signs along Bridge K72
- Installation of cover plates for movement joint
- Underground E&M, lighting and irrigation works at Road D1
- Road Works at Road D1 and near PERE
- Modification of existing sewerage manhole Road D1

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• Landscaping works at Road L7 and Road D1

Contract No. ED/2018/01:

- North Approach Ramp Construction of wall, intermediate slab and column
- Bridge D3 Construction of pile cap and pier
- North Depressed Road Construction of wall & top slab / dismantling of wailing & strut of cofferdam
- Underpass Excavation, construction of base slab and backfilling, Construction of wall & top slab
- South Approach Ramp Installation of sheet pile and excavation, construction of base slab and erection of formwork
- Landscaped Deck Construction of bored piles
- District Cooling System seawater intake box culvert Construction of cofferdam and box structure
- Noise barrier Installation of steel structure and PMMA panel, backfilling of haul road
- Lift 3 Construction of cofferdam for footing Lift 4 Excavation for footing
- South Depressed Road Excavation and Installation of Lateral Support works

Contract No. ED/2018/05:

- Construction of box culvert
- Pre-drilling work for S14
- Pre-drilling works and trial pit excavation
- Drainage works for Pedestrian Street No. 1 & No. 2
- Temporary road diversion at Sa Po Road
- Drainage works for Crowd Dispersal Route
- Bored pile works for landscape elevated walkway
- Removal existing piles at Road D1
- Instrumentation installation at SB-01
- Rising main construction

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1.4 Summary of Inter-relationship with the environmental protection/ mitigation measures with the construction programme

1.4.1 The summary of inter-relationship with environmental protection/mitigation measures are presented as follow:

Major Environmental Impact	Control Measures
Contract No. KL/2014/01:	
Noise, dust impact, water quality and waste generation	 Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles; On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Use of quiet plant and well-maintained construction plant; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide mitigation measure to temporary use of chemicals; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.
Contract No. KL/2015/02:	
Noise, dust impact, water quality and waste generation	 Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles; On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Use of quiet plant and well-maintained construction plant; Provide movable noise barrier; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.
Contract No. ED/2018/01:	
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,

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Major Environmental Impact	Control Measures
	 and Provide sufficient mitigation measures as recommended in Approved EIA Reports.
Contract No. ED/2018/05:	
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.

1.5 Summary Status of Environmental Licences, Notifications and Permits

1.5.1 Detailed relevant environmental licenses, permits and/or notifications on environmental protection for this EP are presented in the appendices of the corresponding Monthly EM&A report.



2. ENVIRONMENTAL MONITORING AND AUDIT

2.1 **Results and Observations**

Air Quality

Hong Kong.

- The schedule of air quality monitoring in reporting month is provided in the appendices of the 2.1.1 corresponding Monthly EM&A report.
- The weather conditions during the monitoring are provided in the appendices of the 2.1.2 corresponding Monthly EM&A report.
- The monitoring data of 24-hr TSP and 1 hour TSP are summarized in Table 2.1. Detailed 2.1.3 monitoring data are presented in the appendices of the corresponding Monthly EM&A report.

Table 2.1 Summary of 24-hr and 1 hour TSP Monitoring Results

Parameter	Monitoring Station	Average (µg/m³)	Range (µg/ m³)	Action Level (µg/ m ³)	Limit Level (µg/ m³)
Contract No.	KL/2014/01:				
N.A (No air qu	uality monitoring is re	quired for the Proje	ect)		
Contract No.	KL/2015/02:				
1-hr TSP	AM2	59	34-78	346	500
24-hr TSP	AM2(A)	35	22 – 51	157	260
Contract No.	ED/2018/01:				
	AM3	44	30 - 84	182	260
24-hr TSP	AM4(A)	48	37 – 84	187	
	AM7	48	37 – 72	181	
	AM3	28	15 – 57	297	500
1-hr TSP	AM4(A)	31	21 – 54	326	
	AM7	35	23 – 56	315	
Contract No.	Contract No. ED/2018/05:				
24-hr TSP	AM2(A)	51	32-88	175	000
	AM3	44	30-84	172	260
	AM2(A)	38	19-60	302	500
1-hr TSP	AM3	28	15-57	301	500

- 2.1.4 No Action / Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.
- No Action / Limit Level exceedance was recorded for 1-hr TSP monitoring in the reporting 2.1.5 month.
- The monitoring data of 24-hr TSP was compared with the EIA predictions are presented in the 2.1.6 appendices of the corresponding Monthly EM&A report.
- 2.1.7 The Event and Action Plan for air quality is given in in the appendices of the corresponding Monthly EM&A report.



<u>Noise</u>

- 2.1.8 The schedule of noise monitoring in reporting month is provided in in the appendices of the corresponding Monthly EM&A report.
- 2.1.9 The noise monitoring data are summarized in **Table 2.2**. Detailed monitoring data are presented in the appendices of the corresponding Monthly EM&A report.

Table 2.2	Summary of Noise Impact Monitoring Results
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Monitoring Stations	Construction Noise Level Leq _(30min) dB(A) (Range)	Action Level	Limit Level dB (A)
Contract No. KL/2014/01:			
(No Construction noise m		NA	
Contract No. KL/2015/02:			
M3(A)	58 – 77 #	When one	75
M4	63 – 77 #		70*
M5(C)	66 – 76 #	documented complaint is	75
Contract No. ED/2018/01:	received.		
M11	68.4 - 69.3		75
M12	62.5 - 65.7		75
Contract No. ED/2018/05:			
M4(A)	69.5 – 71.0	1	75
M5(A)	71.9 – 72.3		75

(*) Noise Limit Level is 65 dB(A) during school examination periods.

([#]) Measured noise level ≦ background / baseline noise level, detailed data refer to the corresponding Monthly EM&A report.

- 2.1.10 The noise monitoring data was compared with the EIA predictions are presented in the appendices of the corresponding Monthly EM&A report.
- 2.1.11 No Action / Limit Level exceedance was recorded for noise monitoring in the reporting month.
- 2.1.12 The Event and Action Plan for noise is given in in the appendices of the corresponding Monthly EM&A report.

Landscape and Visual

2.1.13 Site audits were carried out on a weekly basis to monitor and audit the landscape and visual mitigation measures within the site boundaries of this Project. Detailed of observations are presented in the appendices of the corresponding Monthly EM&A report.



3. SITE INSPECTION

3.1 Site Inspection

- 3.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project.
- 3.1.2 Detailed of observation, recommendation of site inspections and summary of the mitigation measures implementation schedule is provided in the appendices of the corresponding Monthly EM&A Report.

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4. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

4.1 Complaints, Notification of Summons and Prosecution

4.1.1 The summary of complaints, notification of summons and prosecution in the reporting month are shown as **Table 4.1**.

Table 4.1 Summary of Complaints, Notification of Summons and Prosecution

Event	No. of Event This Month	Remark	
Contract No. KL/2014/01:			
Complaint received	0	NA	
Notifications of any summons & prosecutions received	0	NA	
Contract No. KL/2015/02:			
Complaint received	0	NA	
Notifications of any summons & prosecutions received	0	NA	
Contract No. ED/2018/01:			
Complaint received	0	NA	
Notifications of any summons & prosecutions received	0	NA	
Contract No. ED/2018/05:			
Complaint received	0	NA	
Notifications of any summons & prosecutions received	0	NA	

4.1.2 Detailed records are presented in the appendices of the corresponding Monthly EM&A report.



5. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

5.1 Implementation Status

5.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting month are presented in the appendices of the corresponding Monthly EM&A report.

5.2 Waste Management

5.2.1 The amount of wastes generated of this Project during the reporting month is shown in the appendices of the corresponding Monthly EM&A report.

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6. FUTURE KEY ISSUES

6.1 Construction Programme for the Next Two Months

6.1.1 The major site activities undertaken for the coming two months are summarized in follow:

Contract No. KL/2014/01:

- TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road;
- Laying of paving blocks for footpath;
- Erection of noise barrier panels;
- Planting works along footpath and at deck level;
- · Architectural features works at landscaped deck and ground floor open space;
- E&M works;
- · Remedial Work of Holding Down Bolts of noise barrier;
- · Construction of pedestrian streets; and
- · Dismantle of temporary working platform at Kai Tak Bridge.

Contract No. KL/2015/02:

- Install sheet piles and king posts at TTA Stage 4-3
- Remove the 2nd layer of ELS and carry out structural works for subway at SKLR Playground
- Carry out testing and commissioning on Lift LT3
- Carry out finishing works inside the subway
- Carry out E&M works inside the subway
- · Installation of cover plates for movement joint
- Underground E&M, lighting and irrigation works at Road D1
- Road Works at Road D1 and near PERE
- Landscaping works at Road L7 and Road D1
- Install sheet piles and king posts at TTA Stage 4-3

Contract No. ED/2018/01:

- North Approach Ramp Construction of wall, intermediate slab and column
- Bridge D3 Construction of pile cap and pier
- North Depressed Road Construction of wall & top slab / dismantling of wailing & strut of cofferdam and removal of sheet pile
- Underpass Excavation, construction of base slab and backfilling, Construction of wall & top slab
- South Approach Ramp Installation of sheet pile and excavation
- Landscaped Deck Construction of bored piles
- District Cooling System seawater intake box culvert Construction of cofferdam and box structure
- Noise barrier Installation of steel structure and PMMA panel
- Lift 3 Construction of cofferdam for footing
- Lift 4 Excavation for footing

Contract No. ED/2018/05:

- Pre-drilling works and trial pit excavation
- Temporary road diversion at Sa Po Road
- · Bored pile works for landscape elevated walkway
- Pre-drilling work for S14
- Drainage works for Pedestrian Street No. 1 & No. 2
- Construction of Crowd Dispersal Route
- Rising main construction

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6.1.2 The potential environmental impacts arising from the above construction activities and the control measures are shown in **Table 6.1**:

Table 6.1 Summary of Key Issues for the Coming Month and Control Measures

Major Impact Prediction	Control Measures		
Contract No. KL/20	<u>014/01:</u>		
Air quality impact (dust)	 Frequent watering of haul road and unpaved/exposed areas; Frequent watering or covering stockpiles with tarpaulin or similar means; and Watering of any earth moving activities. 		
Water quality impact (surface run-off)	 Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and Provision of measures to prevent discharge into the stream. 		
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; Controlling the number of plants use on site; Regular maintenance of machines; and Use of acoustic barriers if necessary. 		
Waste/ Chemical Management	 Maintenance involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. Chemical wastes should be hold by suitable containers with clear label and stored at a safe location. 		
Contract No. KL/20	<u>015/02:</u>		
Air quality impact (dust)	 Frequent watering of haul road and unpaved/exposed areas; Frequent watering or covering stockpiles with tarpaulin or similar means; and Watering of any earth moving activities. 		
Water quality impact (surface run-off)	 Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and Provision of measures to prevent discharge into the stream. 		
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; Controlling the number of plants use on site; Regular maintenance of machines; and Use of acoustic barriers if necessary. 		
Contract No. ED/2	018/01:		
Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and	 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, 		

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Major Impact Prediction	Control Measures			
Visual	 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. 			
Contract No. ED/2	018/05:			
Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual	 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. 			

6.2 Monitoring Schedules for the Next Three Months

6.2.1 The tentative schedules for environmental monitoring in the coming three months are provided in in the appendices of the corresponding Monthly EM&A.



7. CONCLUSIONS

- 7.1.1 No Action / Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.
- 7.1.2 No Action / Limit Level exceedance was recorded for 1-hr TSP monitoring in the reporting month.
- 7.1.3 No Action / Limit Level exceedance was recorded for noise monitoring in the reporting month.
- 7.1.4 No complaint, notification of summons or prosecution was received in this reporting month.
- 7.1.5 The potential environmental impacts arising from the coming two months of major construction activities and the control measures are shown in **Table 6.1**.

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Appendix A

Monthly EM&A Report For Contract No. KL/2014/01 Kai Tak Development - Stage 2 Infrastructure works for Developments at Southern Part of the Former Runway

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Civil Engineering and Development Department

EP-337/2009 & EP-445/2013/A

Contract No. KL/2014/01

Kai Tak Development – Stage 2 Infrastructure works for Developments at Southern Part of the Former Runway

> Monthly EM&A Report May 2021

> > (Version 1.1)

Approved By	(Environmentel Team Leader)
	(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

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Ka Shing management consultant Limited Carbon Auditæmen

Our ref: 15-6-2021

15-6-2021

By email: clive.cheng@aecom-ktd.com and By hand

Supervising Officer Representative Aecom Asia Co Ltd. 8/F Grand Central Plaza Tower 2 138 Shatin Rural Committee Road Sha Tin, N.T. Hong Kong (Attn: Mr. Cheng Chi Hung)

Dear Mr. Cheng,

Re: Contract No. KL/2014/01 (Environmental Permit Nos. EP-337/2009 and EP-445/2013/A) Kai Tak Development -- Stage 2 Infrastructure Works for Developments at Southern Part of the Former Runway Monthly EM&A report for May 2021 (version 1.1)

Reference is made to the Environmental Team's submission of the draft Monthly EM&A Report (version 1.1) for May 2021 provided to Independent Environmental Checker (IEC) via email dated on 15-6-2021 for review and comment.

Please be informed that IEC has no adverse comment on the captioned submission. IEC writes to verify the captioned submission in accordance with Specific Condition 2.2 of the Environmental Permit No. 337/2009 and 445/2013/A.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,

For and on behalf of

Ka Shing Management Consultant Limited

Ir. Dr. Douglas WONG

Independent Environmental Checker

c.c.	CEDD	Mr. CHU Chi Hong, Keith	(By email: keithchchu@cedd.gov.hk)
	AECOM	Mr. Anthony Lok	(By email: anthony.lok@aecom-ktd.com)
	CEC-CCC	Mr. Eric Fong	(By email: eric-cs-fong@continental-engineering.com)
	Cinotech	Mr. K.S Lee	(By email: ks.lee@cinotech.com.hk)

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ISO ISO ISO 9001 14001 45001 Environmental Management Occupational Health and Safety Quality Management Management FS 681274 EMS 717625 OHS 717629

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EXECUTIVE SUMMARY

Introduction

- This is the 62nd Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2014/01 - Kai Tak Development – Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway" (Hereafter referred to as "the Project"). This contract work comprises two Schedule 2 designated projects (DP), namely the new distributor road D4 (part) and roads D3A & D4A serving the planned KTD. The DPs are part of the designated projects under Environmental Permits (EP) No.: EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") and EP-445/2013/A ("Kai Tak Development – Roads D3A & D4A") respectively. This report documents the findings of EM&A Works conducted in May 2021.
- 2. With reference to the same principle of EIA report of the Project, air quality monitoring station should be provided at the Air Sensitive Receivers (ASR) within 500 m from the boundary of this Project while construction noise monitoring station should be provided at the Noise Sensitive Receivers (NSR) within 300 m from the boundary of this Project. Since the opening of the Centre of Excellence in Paediatrics (Children's Hospital) on 18 December 2018, the hospital is considered as the only relevant monitoring location and therefore the monitoring is required.
- 3. The major site activities undertaken in the reporting month included:
 - TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road;
 - Laying of paving blocks for footpath;
 - Erection of noise barrier panels;
 - Planting works along footpath and at deck level;
 - Architectural features works at landscaped deck and ground floor open space;
 - E&M works;
 - Remedial Work of Holding Down Bolts of noise barrier;
 - Construction of pedestrian streets; and
 - Dismantle of temporary working platform at Kai Tak Bridge.

Environmental Monitoring Works

- 4. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 5. Summary of the non-compliance in the reporting month for the Project is tabulated in **Table I**.

Parameter	No. of Project-rela	Action Taken	
Farameter	Action Level	Limit Level	ACTION TAKEN
Noise	0	0	N/A

Table I Non-compliance Recorded for the Project in the Reporting Mon
--

Environmental Monitoring for Air Quality and Construction Noise

6. No monitoring for air quality and construction noise is required. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

- Licenses/Permits granted to the Project include the Environmental Permits (EP) for the Project, EP-337/2009 issued on 23 April 2009 and EP-445/2013 issued on 3 May 2013 (Amended Environmental Permit (No.: EP-445/2013/A) issued on 13 August 2014).
- 8. Billing Account for Disposal of Construction Waste (A/C No. 7024073)
- 9. Registration of Chemical Waste Producer (License: 5213-247-C4004-01).
- 10. Water Discharge License (License: WT00023634-2016).
- 11. Construction Noise Permits (Permit: GW-RE0442-20, GW-RE0639-20 & GW-RE0045-21)

Key Information in the Reporting Month

12. Summary of key information in the reporting month is tabulated in Table II.

Table IISummary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Future Key Issues

13. The future key environmental issues in the coming month include:

- Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
- Water spraying for dust generating activity and on haul road;
- Proper storage of construction materials on site;
- Storage of chemicals/fuel and chemical waste/waste oil on site;

- Accumulation of general and construction waste on site;
- Noise from operation of the equipment, especially for excavation activities and machinery on-site;
- Wastewater and runoff discharge from site;
- Regular removal of silt, mud and sand along u-channels and sedimentation tanks; and
- Review and implementation of temporary drainage system for the surface runoff.

Reporting Changes

14. Since the major parts of Works under Contract no. KL/2014/03 has been completed, the environmental monitoring works of EM&A monitoring station, KTD1a, was then handed over to the ET of Contract no. ED/2018/04 in August, 2020. In order to obtain the environmental impact monitoring data with higher representativeness based on several factors, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem, the monitoring location KTD1a was relocated to the original location as proposed in the EM&A manual (AEIAR-174/2013), and renamed as KTD1 on 3 August 2020.

1. INTRODUCTION

Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, 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. It covers a land area of about 328 hectares. Stage 2 Infrastructure Works for Developments for Southern Part of the Former Runway is one of the construction stages of KTD. It contains two Schedule 2 DPs including new distributor roads serving the planned KTD and KTD Roads D3A & D4A. The general layout of the Project is shown in **Figure 1.**
- 1.2 One Environmental Permit (EP) No.: EP-337/2009 was issued on 23 April 2009 for new distributor roads serving the planned KTD and one Environmental Permit No.: EP-445/2013 was issued on 3 May 2013 for Kai Tak Development Roads D3A & D4A to Civil Engineering and Development Department (CEDD) as the Permit Holder. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection Department amended the Environmental Permit No.: EP-445/2013 based on the Application No. VEP-449/2014 and the Environmental Permit (No.: EP-445/2013/A) was issued on 13 August 2014.
- 1.3 A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. EIA Reports (Register No. AEIAR-130/2009 and AEIAR-170/2013) were approved by the Environmental Protection Department (EPD) on 4 March 2009 and 3 May 2013 respectively.
- 1.4 Cinotech Consultants Limited (Cinotech) was commissioned by Civil Engineering and Development Department (CEDD) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2014/01 Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway. The construction work under KL/2014/01 comprises the construction of part of the Road D4 under the EP (EP-337/2009) and the construction of Roads D3A & D4A under the EP (EP-445/2013/A).
- 1.5 Cinotech Consultants Limited was commissioned by Civil Engineering and Development Department (CEDD) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of this Contract is on 13 April 2016. This is the 62nd Monthly EM&A report summarizing the EM&A works for the Project in May 2021.
- 1.6 All project information since the commencement of work under EPs including Monthly EM&A Reports is made available to the public via internet access at the website: <u>https://www.epd.gov.hk/eia/english/register/index8/vep4492014_content.html</u>

Project Organizations

- 1.7 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD).
 - The Supervising Officer and the Supervising Officer's Representative (SO) AECOM Asia Co. Ltd. (AECOM).
 - Environmental Team (ET) Cinotech Consultants Limited (CCL).
 - Independent Environmental Checker (IEC) Ka Shing Management Consultant Ltd. (KSMC).
 - Contractor Continental Engineering Corp. and Chit Cheung Construction Co. Ltd. Joint Venture (CCJV).
- 1.8 The key contacts of the Project are shown in **Table III.**

Table III

Key Project Contacts

Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Keith Chu	Senior Engineer	3579 2450	3579 4516
		Ms. Adonia Yung	Engineer	3579 2124	
AECOM	Supervising Officer	Mr. Clive Cheng	CRE	3746 1801	2798 0783
Cinotech	Environmental Team	Mr. K S Lee	Environmental Team Leader	2151 2091	3107 1388
		Ms. Betty Choi	Audit Team Leader	2151 2072	
KSMC	Independent Environmental Checker	Dr. Douglas Wong	IEC	2618 2166	2120 7752
CCJV	Contractor	Mr. Jack Lai	Environmental Officer	2960 1398	2960 1399

Construction Activities undertaken during the Reporting Month

- 1.9 The site activities undertaken in the reporting month included:
 - TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road;
 - Laying of paving blocks for footpath;
 - Erection of noise barrier panels;
 - Planting works along footpath and at deck level;
 - Architectural features works at landscaped deck and ground floor open space;
 - E&M works;
 - Remedial Work of Holding Down Bolts of noise barrier;
 - Construction of pedestrian streets; and
 - Dismantle of temporary working platform at Kai Tak Bridge.

1.10 The construction programme showing the inter-relationship with environmental protection/mitigation measures is presented in **Table IV**.

Table IV	Construction Programme Showing the Inter-Relationship with Environmental
Protection/Mi	tigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.8	Noise, dust impact, water quality and waste generation	Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles; On-site waste sorting and implementation of trip ticket system; Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Use of quiet plant and well-maintained construction plant; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide mitigation measure to temporary use of chemicals; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.

Summary of EM&A Requirements

- 1.11 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 5 of this report.

2. AIR QUALITY

Monitoring Requirements

- 2.1 With reference to the same principle of EIA report of the Project, air quality monitoring station should be provided at the Air Sensitive Receivers (ASR) within 500 m from the boundary of this Project. Since the opening of the Centre of Excellence in Paediatrics (Children's Hospital) on 18 December 2018, the hospital is considered as the only relevant monitoring location and therefore the monitoring is required.
- 2.2 As the monitoring works for the hospital is covered by the Contract KL/2014/03 (Kai Tak Development Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway) at the monitoring station (KTD1), the corresponding monitoring results for March 2021 should be accessed in the EM&A report for the reporting month. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Observations

- 2.3 No monitoring for air quality is required for this report. No Action/Limit Level exceedance at KTD1 was recorded. The summary of exceedance record in reporting month is shown in **Appendix B**.
- 2.4 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix C.**

3. NOISE

Monitoring Requirements

- 3.1 With reference to the same principle of EIA report of the Project, construction noise monitoring station should be provided at the Noise Sensitive Receivers (NSR) within 300 m from the boundary of this Project. Since the opening of the Centre of Excellence in Paediatrics (Children's Hospital) on 18 December 2018, the hospital is considered as the only relevant monitoring location and therefore the monitoring is required.
- 3.2 As the monitoring works for the hospital is covered by the Contract KL/2014/03 (Kai Tak Development Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway) at the monitoring station (KTD1), the corresponding monitoring results for May 2021 should be accessed in the EM&A report for the reporting month. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Observations

- 3.3 No monitoring for construction noise is required for this report. No Action/Limit Level exceedance at KTD1 was recorded. The summary of exceedance record in reporting month is shown in **Appendix B**.
- 3.4 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of construction noise mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix C**.

4. LANDSCAPE AND VISUAL

Monitoring Requirements

4.1 According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's operation during the construction period on a weekly basis, and to report on the contractor's compliance.

Results and Observations

- 4.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix C**.
- 4.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 4.4 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in **Appendix D** shall be performed.

5. ENVIRONMENTAL AUDIT

Site Audits

- 5.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix C**.
- 5.2 Site audits were conducted by representatives of the Contractor, Supervising Officer and ET on 7, 13, 20 & 26 May 2021 in the reporting month. IEC joint site inspection was conducted on 26 May 2021. No non-compliance was observed during the site audits.

Status of Environmental Licensing and Permitting

5.3 All permits/licenses obtained for the Project are summarized in **Table V**.

Table V	Summary	of Environn	nental Licensing and Permit Sta	itus
Permit No.	Valid Period			Status
Permit No.	From To		- Details	Status
Environmental Pe	rmit (EP)			
EP-337/2009	23/04/09	N/A	Construction of new distributor roads serving the planned Kai Tak development.	Valid
EP-445/2013/A	13/08/14	N/A	Construction of Kai Tak Development roads D3A and D4A	Valid
Effluent Discharge I	License	L		
WT00023634-2016		31/03/21	Wastewater from the construction site including effluent treated by screen and sedimentation tank; There are no more need for the license after 31 March 2021 as the project is close to completion and no waste water being generated from site.	Expired on 31 March 2021
Registration of Cher	nical Waste F			
5213-247-C4004- 01		N/A	Chemical Waste Types: Surplus paint, waste contaminated by paint, diesel, waste contaminated by diesel, spent lubricating oil and waste, soil contaminated by lubricating oil.	Valid
Construction Noise	Permit (CNP)			
GW-RE0442-20	14/06/20	13/12/20	Construction Noise Permit for the use of powered mechanical	Expired on 13 December 2020
GW-RE0639-20	3/8/20	19/1/21	equipment for carrying out construction work other than percussive pilling and performing prescribed	Expired on 19 February 2021
GW-RE0045-21	20/1/21	19/7/21	construction work.	Valid

Status of Waste Management

- 5.4 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix G**.
- 5.5 In respect of the dump truck cover, the Contractor is reminded to take record photos and inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

Implementation Status of Environmental Mitigation Measures

5.6 During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table VI**.

 Table VI
 Observations and Recommendations of Site Inspections

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality			
Air Quality			
Noise			
Waste/ Chemical Management			
Landscape and Visual			
Permits/ Licenses			

Summary of Mitigation Measures Implemented

5.7 An updated summary of the EMIS is provided in **Appendix E**.

Implementation Status of Event Action Plans

5.8 The Event Action Plans for noise and landscape and visual are presented in **Appendix D**. No Event Action Plan for air quality is considered necessary.

Construction Dust

5.9 No Action/Limit Level exceedance was recorded in the reporting month.

Construction Noise

5.10 No Action/Limit Level exceedance was recorded in the reporting month.

Landscape and visual

5.11 No non-compliance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

5.12 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix F**.

6. FUTURE KEY ISSUES

- 6.1 Major site activities undertaken for the coming two months include:
 - TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road;
 - Laying of paving blocks for footpath;
 - Erection of noise barrier panels;
 - Planting works along footpath and at deck level;
 - Architectural features works at landscaped deck and ground floor open space;
 - E&M works;
 - Remedial Work of Holding Down Bolts of noise barrier;
 - Construction of pedestrian streets; and
 - Dismantle of temporary working platform at Kai Tak Bridge.
- 6.2 Key environmental issues in the coming month include:
 - Wastewater and runoff discharge from site;
 - Silt, mud and sand along u-channels and sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Dust generating activity and on haul road;
 - Storage of construction materials on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site

6.3 The tentative program of major site activities and the impact prediction and control measures for the coming two months, i.e. June 2021 and July 2021 are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures	
Works As mentioned in Section 6.1	Prediction Air quality impact (dust) Water quality impact (surface run-off) Noise Impact	 a) Frequent watering of haul road and unpaved/exposed areas; b) Frequent watering or covering stockpiles with tarpaulin or similar means; and c) Watering of any earth moving activities. a) Diversion of the collected effluent to de- silting facilities for treatment prior to discharge to public storm water drains; b) Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; c) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and d) Provision of measures to prevent discharge into the stream. a) Scheduling of noisy construction activities 	
	Waste/ Chemical Management	 a) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; b) Controlling the number of plants use on site; c) Regular maintenance of machines; and d) Use of acoustic barriers if necessary. a) Maintenance involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. b) Chemical wastes should be hold by suitable containers with clear label and stored at a safe location. 	

7. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

7.1 The Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken in May 2021.

Air Quality and Construction Noise

7.2 No regular monitoring air quality and noise monitoring is required for the Project. No Action/Limit Level exceedance was recorded.

Landscape and visual

7.3 No non-compliance was recorded in the reporting month.

Complaint and Prosecution

- 7.4 No environmental complaints and environmental prosecution were received in the reporting month.
- 7.5 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

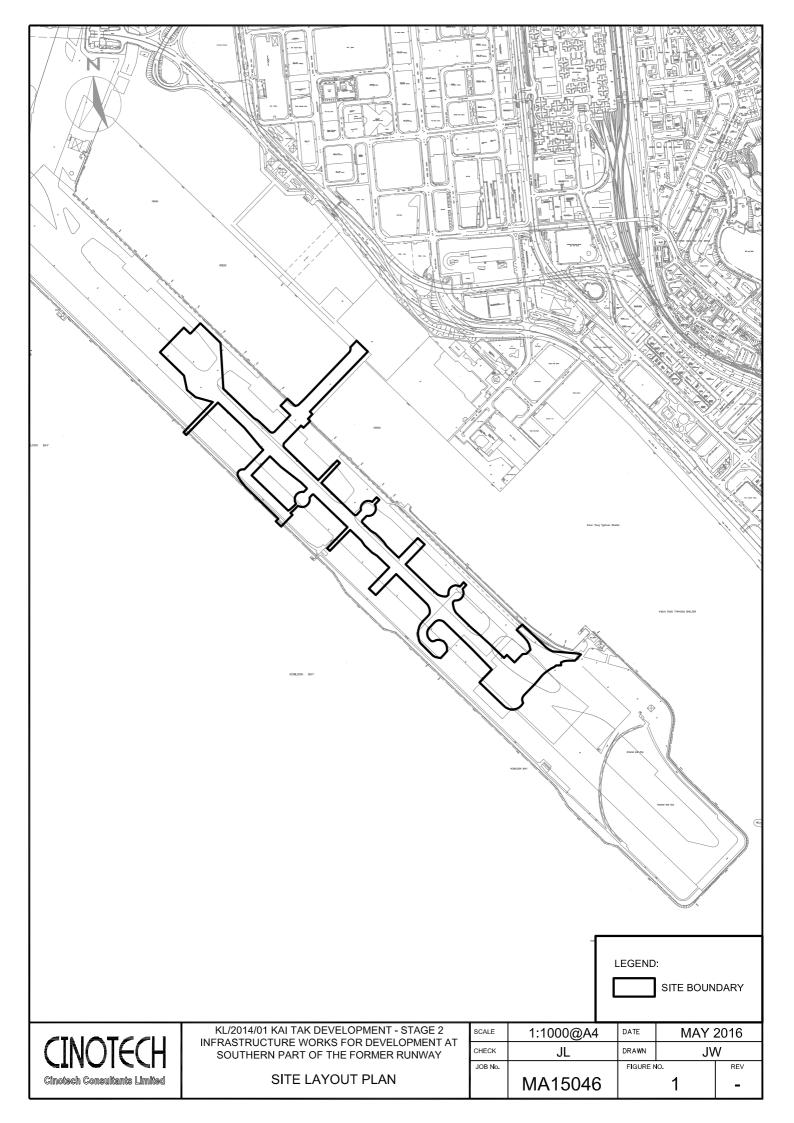
Recommendations

7.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

Waste/ chemical management

• To avoid the accumulation of general refuse.

FIGURES



APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Monitoring Station	Parameter	Action Level (µg/ m ³)	$ Limit \ Level^{(1)(2)} \\ (\mu g/\ m^3) $
KTD1	24-hr TSP	177	260
KTD1*	1-hr TSP	285	500

Table A-1 Action and Limit Levels for Air Quality Monitoring

* 1-hr TSP monitoring should be required in case of complaints.

Table A-2	Action and Limit Levels for Construction Noise Monitoring	
	Action and Limit Levels for Construction Noise Monitoring	

Time Period	Action Level	Limit Level ⁽¹⁾⁽²⁾
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: (1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

(2) No regular noise impact monitoring station for this Contract. It is subject to the noise sensitive receiver(s) and additional monitoring work.

(*) 70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods respectively.

APPENDIX B SUMMARY OF EXCEEDANCE

Contract No. KL/2014/01 Kai Tak Development –Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway

Appendix B – Summary of Exceedance

Exceedance Record for Contract No. KL/2014/01

Reporting Month: May 2021

(A) Exceedance Record for Construction Dust

(NIL in the reporting month)

(B) Exceedance Record for Construction Noise

(NIL in the reporting month)

(C) Exceedance Record for Landscape and Visual

(NIL in the reporting month)

APPENDIX C SITE AUDIT SUMMARY

Checklist Reference Number	210507
Date	7 May 2021 (Friday)
Time	14:30 - 15:30

Ref. No.	Non-Compliance	Related Item No
Kel. 190.	None identified	Item No
-		Related
D.C.N.	Deres de la la competizione	
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	 No environmental deficiency was identified during site inspection. 	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow up on the previous audit session (Ref. No:210429): No environmental deficiencies	
	were identified in the previous inspection	

	Name	Signature	Date
Recorded by	Sam Au	MAA	7 May 2021
Checked by	Colman Wong	Colman	7 May 2021

Checklist Reference Number	210513
Date	13 May 2021 (Friday)
Time	14:30 - 15:30

DCN		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow up on the previous audit session (Ref. No:210507): No environmental deficiencies were identified in the previous inspection	

	Name	Signature	Date
Recorded by	Sam Au	MAA	13 May 2021
Checked by	Colman Wong	Colman	13 May 2021

Checklist Reference Number	210520
Date	20 May 2021 (Friday)
Time	14:30 - 15:30

DCN		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow up on the previous audit session (Ref. No:210513): No environmental deficiencies were identified in the previous inspection	

	Name	Signature	Date
Recorded by	Sam Au	MAA	20 May 2021
Checked by	Colman Wong	Colman	20 May 2021

Checklist Reference Number	210526
Date	26 May 2021 (Friday)
Time	14:30 - 15:30

DCN		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow up on the previous audit session (Ref. No:210520): No environmental deficiencies were identified in the previous inspection	

	Name	Signature	Date
Recorded by	Sam Au	MAA	26 May 2021
Checked by	Colman Wong	Colman	26 May 2021

APPENDIX D EVENT ACTION PLANS

Appendix D - Event Action Plans

Event/Action Plan for Construction Noise

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

Appendix D - Event Action Plans

Event/Action Plan for Landscape and Visual

EVENT ACTION		ACT	ION	
LEVEL	ET	IEC	ER	CONTRACTOR
Design Check	 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	 Identify Source Inform IEC and ER Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed 	 Check report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures. Check implementatio n of remedial measures. 	 Notify Contractor Ensure remedial measures are properly implemented 	 Amend working methods Rectify damage and undertake any necessary replacement
Repeated Non- conformity	 Identify Source Inform IEC and ER Increase monitoring frequency Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed If non- conformity stops, cease additional monitoring 	 Check monitoring report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures Supervise implementatio n of remedial measures. 	 Notify Contractor Ensure remedial measures are properly implemented 	 Amend working methods Rectify damage and undertake any necessary replacement

APPENDIX E ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	Mitigation Measures	Status			
Construction Air Qu	Construction Air Quality				
S3.2 (AEIAR-130/2009)	8 times daily watering of the work site with active dust emitting activities.	٨			
(AEIAR-130/2003) S4.8 (AEIAR-170/2013)	Control measures stipulated in the approved KTD Schedule 3 EIA Report should be strictly followed.	٨			
S3.2 (AEIAR-130/2009) and 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.				
(AEIAR-170/2013)	 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 being loaded into the 	^			
	 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. Onsite unpaved roads should be compacted and kept free of lose materials. 	^			
	• Vehicle washing facilities should be provided at every vehicle exit point.	^			

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	Mitigation Measures	Status
	 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. Every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet. Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides; and Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 	∧ ∧ ∧
Construction Noise		
S3.3 (AEIAR-130/2009)	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump.	^
S3.3 (AEIAR-130/2009)	Good Site Practice:	
(AEIAK-130/2009)	• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	^
	• Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.	٨
	 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 use should be shut down between works periods or should be throttled down to a minimum. 	٨
	 Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. 	٨
	• Material stockpiles and other structures should be effectively utilized, wherever	^

EIA Ref.	Mitigation Measures	Status
	practicable, in screening noise from on-site construction activities.	
S3.3 (AEIAR-130/2009)	Scheduling of Construction Works during School Examination Period	N/A
S3.8 (AEIAR-170/2013)	Provision of a landscaped deck along Roads D3A & D4A.	N/A
S3.8 (AEIAR-170/2013)	 Provision of about 1090 m length of vertical noise barrier (connected to the deck) at Roads D3A & D4A; Provision of about 60 m length of overhang vertical noise barrier (connected to the deck) at Road D4A; and Provision of staircases with noise barriers next to Sites 4A1 and 4B1 It should be noted that the exact length of the mitigation measures would be subject to minor refinement during the detailed design stage. 	N/A N/A N/A
S3.8 (AEIAR-170/2013)	Non-noise sensitive use areas within Sites 4A1 and 4B1.	N/A
S3.8 (AEIAR-170/2013)	Avoid sensitive façade with openable window facing Road D3A.	N/A
Construction Water	Quality	
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	 <u>Construction Runoff</u> Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: use of sediment traps adequate maintenance of drainage systems to prevent flooding and overflow 	∧ ∧

EIA Ref.	Mitigation Measures	Status
Construction site should be provided with adequately designed perimeter channel and pre treatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.		٨
	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.	٨
S5.8 (AEIAR-170/2013)	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.	٨
	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.	٨
S3.4 (AEIAR-130/2009)	Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m ³ capacity, are recommended as a general mitigation measure	٨

EIA Ref.	Mitigation Measures	Status
	which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m ³ 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.	^
(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.	٨
S3.4 (AEIAR-130/2009)	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.	٨
	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	۸
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	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	٨

EIA Ref.	Mitigation Measures	Status
	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.	
S5.8 (AEIAR-170/2013)	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.	^
	Acid Cleaning, Etching and Pickling Wastewater 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	^
S3.4	Drainage	
(AEIAR-130/2009)	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.	٨
S3.4 (AEIAR-130/2009)	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	^

EIA Ref.	Mitigation Measures	Status
S3.4 (AEIAR-130/2009)	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ.	٨
S5.8 (AEIAR-170/2013)	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.	Λ
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	Sewage EffluentConstruction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.	٨
S5.8	Notices should be posted at conspicuous locations to remind the workers not to discharge	^

EIA Ref.	Mitigation Measures	Status
(AEIAR-170/2013)	any sewage or wastewater into the surrounding environment. Regular environmental audit of the construction site will provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the project would not cause water pollution problem after undertaking all required measures.	
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	Stormwater Discharges Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes.	٨
	Debris and Litter In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur.	٨
S5.8 (AEIAR-170/2013)	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 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.	Λ

EIA Ref.	EIA Ref. Mitigation Measures	
	 Disposal of chemical wastes should be carried out in compliance 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. Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 	∧ ∧ ∧
Construction Waste	Management	
S6.7 (AEIAR-170/2013)	Prepare a Waste Management Plan, which becomes a part of the Environmental Management Plan, in accordance with the requirements stipulated in ETWB TC (W) No. 19/2005, approved by the Engineer/Supervising Officer of the Project based on current practices on construction sites.	٨
S3.5 (AEIAR-130/2009) and S6.7 (AEIAR-170/2013)	 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: Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site Training of site personnel in proper waste management and chemical waste handling procedures 	^
	Provision of sufficient waste disposal points and regular collection for disposal	^

EIA Ref.	Mitigation Measures	Status
	• Appropriate measures to minimise windblown litter and dust during transportation of	^
	waste by either covering trucks or by transporting wastes in enclosed containers	
	 A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) 	٨
	 Regular cleaning and maintenance systems, sumps and oil interceptors 	٨
	 Separation of chemical wastes for special handling and appropriate treatment 	٨
	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:	
	 Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals 	٨
	• 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	
	• 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	^
	 Any unused chemicals or those with remaining functional capacity should be recycled 	^
	 Proper storage and site practices to minimise the potential for damage or 	Λ
	contamination of construction materials	
	• Plan and stock construction materials carefully to minimize amount of waste	٨
	 generated and avoid unnecessary generation of waste Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycle. 	^

EIA Ref.	Mitigation Measures	Status
S3.5 (AEIAR-130/2009)	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: Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles shall be located away from waterfront or storm drains as far as possible. 	٨
	• Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	۸
	• Skip hoist for material transport should be totally enclosed by impervious sheeting.	^
	• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site.	٨
	• 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.	^
	• The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.	^
	• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.	۸
	• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.	٨
	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	

EIA Ref.	Mitigation Measures	Status	
	System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirement sand implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.		
S3.5 (AEIAR-130/2009)	General Refuse General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem	^	
Construction Lands	cape and Visual		
\$3.8.12	• Minimized construction area and contractor's temporary works areas.	٨	
(AEIAR-130/2009)	• All existing trees should be carefully protected during construction.	Λ	
and S7.9 (AEIAR-170/2013)	• 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.	٨	
	• Control of night-time lighting.	٨	
	• Erection of decorative screen hoarding.	٨	
	• Reduction of construction period to practical minimum.	^	
	• Limitation of / Ensuring no run-off into surrounding landscape and adjacent seawater areas.	٨	
	• 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:	EIA Report (AEIAR-130/2009) – Kai Tak Development			
	EIA Report (AEIAR-170/2013) – Kai Tak Development – Roads D3A & D4A			
	Compliance of mitigation measure;	X Non-compliance of mitigation measure;		
	N/A Not Applicable at this stage;N/A(1) Not observed;	• Non-compliance but rectified by the contractor;		
	* Recommendation was made during site audit but improved/rectified by the contractor.	# Recommendation was made during site audit but not yet improved/rectified by the contractor.		

APPENDIX F SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

Contract No. KL/2014/01 Kai Tak Development –Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway

Appendix F – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: May 2021

Contract No. KL/2014/01

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint/warning/summon and prosecution were received in the reporting period.

APPENDIX G WASTE GENERATED QUANTITY

Appendix G. Monthly Summary Waste Flow Table

Name of Department: CEDD

Contract No: KL/2014/01

		Actual Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects *	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in tonne)
Jan	35.46	0	0	0	35.46	0	0	0	0	0	212.30
Feb	5.63	0	0	0	5.63	0	0	0	0	0	4.18
Mar	0.00	0	0	0	0.00	0	0	0	0	0	2.50
Apr	0.00	0	0	0	0.00	0	0	0	0	0	9.65
May	0	0	0	0	0.00	0	0	0	0	0	17.89
June		0	0	0		0	0	0	0	0	
Sub-total		0	0	0		0	0	0	0	0	
July		0	0	0		0	0	0	0	0	
Aug		0	0	0		0	0	0	0	0	
Sept		0	0	0		0	0	0	0	0	
Oct		0	0	0		0	0	0	0	0	
Nov		0	0	0		0	0	0	0	0	
Dec											
Total	41.09	0	0	0	41.09	0	0	0	0	0	246.52

Monthly Summary Waste Flow Table for 2021

* Transfer to alterative disposal ground at Lung Kwu Sheung Tan EPD approved recycler

FUGRO TECHNICAL SERVICES LIMITED

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Appendix B

Monthly EM&A Report For Contract No. KL/2015/02 Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area

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Civil Engineering and Development Department

EP-337/2009 – New Distributor Roads Serving the Planned KTD

Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area

Monthly EM&A Report

May 2021

(version 1.2)

Certified By	
	(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

CINOTECH CONSULTANTS LTD Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk



FUGRO TECHNICAL SERVICES LIMITED Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

 Date
 15 June 2021

 Our Ref.
 MCL/ED/0242/2021/C

Cinotech Consultants Limited Rm 1710, Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong

BY EMAIL

Attn.: Mr. K.S Lee

Dear Sir,

Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Verification of Monthly EM&A Report for May 2021

We refer to your emails dated 9, 11 and 15 June 2021 for the captioned report prepared by the ET.

We have no further comment and hereby verify the Report in accordance with Clause 3.3 of Environmental Permit no. EP-337/2009.

Should you require further information, please do not hesitate to contact me on 3565 4114 or our Wingo So on 3565 4374.

Assuring you of our best attention at all times.

Yours faithfully, For and on behalf of FUGRO TECHNICAL SERVICES LIMITED

Colin K. L. Yung Independent Environmental Checker

CY/ws

c.c. CEDD -

AECOM –

Attn.: Mr. Ricky Chan Attn.: Mr. Vincent Yip Attn.: Mr. Vincent Lee Attn.: Mr. Teddy Shih

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EXECUTIVE SUMMARY

Introduction

- This is the 53rd Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2015/02 - Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area" (Hereafter referred to as "the Project"). This contract comprises one Schedule 2 designated project (DP), namely the new distributor road D1 serving the planned KTD. The DP is part of the designated project under Environmental Permit (EP) No.: EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") respectively. This report documents the findings of EM&A Works conducted during May 2021.
- 2. With reference to the same principle of EIA report of the Project, air quality monitoring stations within 500m and noise monitoring stations within 300m from the boundary of this Project are considered as relevant monitoring locations. In such regard, the relevant air quality and noise monitoring locations are tabulated in **Table I** (see **Figure 2 and 3** for their locations).

Locations	Monitoring Stations In accordance with EM&A Manual	Alternative Monitoring Stations			
Air Quality Monitoring Stations	Air Quality Monitoring Stations				
	Yes (1-hour TSP)	N/A			
AM2 - Lee Kau Yan Memorial School	No (24-hour TSP)	AM2(A) – Ng Wah Catholic Secondary School			
Noise Monitoring Stations					
M3 - Cognitio College	No	M3(A) – The Bridge connecting The Latitude			
M4 - Lee Kau Yan Memorial School	Yes	N/A			
M5 – Nam Yuen	No	M5(C) – Mercy Grace's Home			

Table I – Air Quality and Noise Monitoring Stations for this Project

3. The major site activities undertaken in the reporting month included:

- Carry out trail pit excavation at TTA Stage 4-3
- Carry out backfilling works around subway at SKLR Playground
- Carry out testing and commissioning on Lift LT3
- Carry out finishing works inside the subway
- Carry out E&M works inside the subway
- Installation of traffic signs and directional signs along Bridge K72
- Installation of cover plates for movement joint
- Underground E&M, lighting and irrigation works at Road D1

- Road Works at Road D1 and near PERE
- Modification of existing sewerage manhole Road D1
- Landscaping works at Road L7 and Road D1

Environmental Monitoring Works

- 4. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 5. Summary of the non-compliance in the reporting month for the Project is tabulated in **Table II**.

_	No. of Project-rela			
Parameter	Action Level	Limit Level	Action Taken	
1-hr TSP	0	0	N/A	
24-hr TSP	0	0	N/A	
Noise	0	0	N/A	

 Table II
 Non-compliance Recorded for the Project in the Reporting Month

1-hour & 24-hour TSP Monitoring

- 6. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 7. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

8. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

- 9. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, EP-337/2009 issued on 23 April 2009. All valid Licenses/Permits for this Project are shown in **Table 6.1**.
 - Billing Account for Construction Waste Disposal (A/C# 7026164).
 - Effluent Discharge License (WT00027495-2017).
 - Registration of Chemical Waste Producer (WPN5213-286-P3271-01).

Key Information in the Reporting Month

10. Summary of key information in the reporting month is tabulated in **Table III**.

Table IIISummary Table for Key Information in the Reporting M

Event	Event Details		Action Taken	Status	Domonia	
Event	Number	Nature	ACTION TAKEN	Status	Remark	
Complaint received			N/A	N/A		
Reporting Changes			N/A	N/A		
Notifications of any summons & prosecutions received			N/A	N/A		

Future Key Issues

- 11. The future key environmental issues in the coming two months include:
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation
 - works and rock breaking activities;
 - Water spraying for dust generating activity and on haul road;
 - Proper storage of construction materials on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site;
 - Noise from operation of the equipment, especially for rock-breaking activities,
 - piling works and machinery on-site;
 - Wastewater and runoff discharge from site;

1 INTRODUCTION

Background

- 1.1. The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, 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. It covers a land area of about 328 hectares. Stage 5A Infrastructure at Former North Apron Area is one of the construction stages of KTD. It contains one Schedule 2 DP including new distributor roads serving the planned KTD. The general layout of the Project is shown in **Figure 1**.
- 1.2. An Environmental Permit (EP) No. EP-337/2009 was issued on 23 April 2009 for new distributor roads serving the planned KTD to Civil Engineering and Development Department as the Permit Holder.
- 1.3. A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. An EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 April 2009.
- 1.4. Cinotech Consultants Limited (Cinotech) was commissioned by Civil Engineering and Development Department (CEDD) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2015/02 – Stage 5A Infrastructure at Former North Apron Area. The construction work under KL/2015/02 comprises the construction of part of the Road D1 under the EP (EP-337/2009).
- 1.5. Cinotech Consultants Limited was commissioned by Civil Engineering and Development Department (CEDD) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The commencement date of construction of Road D1 (part) under this Contract was on 16 January 2017.

Project Organizations

- 1.6. Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD).
 - The Engineer and the Engineer's Representative (ER) AECOM Asia Co. Ltd (AECOM).
 - Environmental Team (ET) Cinotech Consultants Limited (Cinotech).
 - Independent Environmental Checker (IEC) Fugro Technical Services Limited (FTS).
 - Contractor Peako Wo Hing Joint Venture (PWHJV).

1.7. The key contacts of the Project are shown in **Table 1.1**.

Table 1.1	Key Project Contacts
-----------	----------------------

Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project Proponent	Mr. CHAN Wai Kit, Ricky	Senior Engineer	2116 3753	2116 0714
AECOM	Engineer's Representative	Mr. Vincent Lee	SRE	2798 0771	2210 6110
Cinotech	Environmental	Mr. K.S Lee	Environmental Team Leader	2151 2091	3107 1388
Chloteen	Team	Ms. Betty Choi	Audit Team Leader	2151 2072	5107 1500
FTS	Independent Environmental Checker	Mr. Colin Yung	Independent Environmental Checker	3565 4114	2450 8032
PWHJV	Contractor	Mr. W.M. Wong	Site Agent	6386 3535	2398 8301

Construction Activities undertaken during the Reporting Month

- 1.8. The site activities undertaken in the reporting month included:
 - Carry out trail pit excavation at TTA Stage 4-3
 - Carry out backfilling works around subway at SKLR Playground
 - Carry out testing and commissioning on Lift LT3
 - Carry out finishing works inside the subway
 - Carry out E&M works inside the subway
 - Installation of traffic signs and directional signs along Bridge K72
 - Installation of cover plates for movement joint
 - Underground E&M, lighting and irrigation works at Road D1
 - Road Works at Road D1 and near PERE
 - Modification of existing sewerage manhole Road D1
 - Landscaping works at Road L7 and Road D1
- 1.9. The construction programme for the Project is shown in **Appendix N**.
- 1.10. The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in **Table 1.2**.

Table 1.2	Construction Programme Showing the Inter-Relationship with
	Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
Refer to Section 1.8	Noise, dust impact, water quality and waste generation	 Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles; On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Use of quiet plant and well-maintained construction plant; Provide movable noise barrier; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.

Summary of EM&A Requirements

- 1.11. The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.12. The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.
- 1.13. This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely air quality and noise levels and audit works for the Project during the reporting month.

2 AIR QUALITY

Monitoring Requirements

2.1. According to EM&A Manual under the EP, 1-hour and 24-hour TSP monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. Appendix A shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

- 2.2. 1-hour TSP impact dust monitoring was conducted at the air quality monitoring station, AM2 - Lee Kau Yan Memorial School and 24-hour TSP impact dust monitoring were conducted at the air quality monitoring station, AM2(A) - Ng Wah Catholic Secondary School in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.3. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Monitoring Stations	Locations	Location of Measurement
AM2 (1-hour TSP)	Lee Kau Yan Memorial School	Rooftop (about 8/F) Area
AM2(A) (24-hour TSP)	Ng Wah Catholic Secondary School	Rooftop (about 8/F) Area

Table 2.1Locations for Air Quality Monitoring

Monitoring Equipment

2.4. **Table 2.2** summarizes the equipment used in the impact air monitoring programme. Copies of calibration certificates are attached in **Appendix B**.

Equipment Model and Make	

Equipment	Model and Make	Quantity
Calibrator	• TISCH TE-5025A	1
1-hour TSP Dust Meter	• Sibata Scientific Technology LD-5R	3
HVS Sampler	• TE-5170 c/w of TSP sampling inlet	1
Wind Anemometer	• Davis Instruments 6152	1

Monitoring Parameters, Frequency and Duration

2.5. Table 2.3 summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 2.3I	mpact Dust Monitoring Parameters, Frequency and Duratio	n
------------	---	---

Parameters	Frequency
1-hr TSP	Three times / 6 days
24-hr TSP	Once / 6 days

Monitoring Methodology and QA/QC Procedure

1-hour TSP Monitoring

Measuring Procedures

2.6. The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:

(Equipment: Sibata Scientific Technology; Model no. LD-3B, LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low • level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the • background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display.
- Finally, push the start/stop switch to stop the measuring after 1 hour sampling.

• Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

2.7. The following maintenance/calibration was required for the direct dust meters:

Check the meter at a 3-month interval and calibrate the meter at a 1-year interval throughout all stages of the air quality monitoring.

24-hour TSP Monitoring

Instrumentation

2.8. High volume (HVS) samplers (Model TE-5170), completed 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). Moreover, the HVS also met all the requirements in section 2.5 of the updated EM&A Manual.

Operating/Analytical Procedures

- 2.9. Operating/analytical procedures for the operation of HVS were as follows:
 - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters 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 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.10. Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m3/min. and 1.4 m3/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.11. For TSP sampling, fiberglass filters have a collection efficiency of > 99% for particles of 0.3μm diameter were used.

- 2.12. The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.13. The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.14. The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- 2.15. The shelter lid was closed and secured with the aluminium strip.
- 2.16. The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.17. After sampling, the filter was removed and sent to the HOKLAS laboratory (High Precision Chemical Testing Ltd.) for weighing. The elapsed time was also recorded.
- 2.18. Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than \pm 3°C; the relative humidity (RH) should be < 50% and not vary by more than \pm 5%. A convenient working RH is 40%.

Maintenance/Calibration

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

Results and Observations

- 2.20. All 1-hour and 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.21. The weather information for the reporting month is summarized in Appendix C.
- 2.22. The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E and F** respectively.
- 2.23. The summary of exceedance record in reporting month is shown in **Appendix H**. No exceedance was recorded for the air quality monitoring.

- 2.24. According to our field observations during the monitoring, the major dust source identified at the two designated air quality monitoring stations are road traffic dust, exposed site area and open stockpiles, excavation works and site vehicle movements.
- 2.25. The summary of 1-hour and 24-hour TSP air quality monitoring results during the reporting month are shown in **Appendix E** and **Appendix F** respectively.

3 NOISE

Monitoring Requirements

3.1. According to EM&A Manuals under the EP, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities within KTD. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2. Three designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at three designated monitoring stations (M3(A), M4, and M5(C)). **Figure 3** shows the locations of these stations.

Monitoring Stations	Locations	Location of Measurement	
	The Bridge connecting The	In the middle of the foot	
M3(A)	Latitide	bridge connecting The	
	Latitide	Latitude	
M4	Lee Kau Yan Memorial School	Rooftop (about 7/F) Area	
		Ground in front of the	
		building entrance facing	
		Prince Edward	
	Mercy Grace's Home	Road East (noise monitoring	
M5(C)		is not allowed on the rooftop	
		from 27 February 2020, due	
		to the coronavirus	
		countermeasure in Mercy	
		Grace's Home)	

Table 3.1Noise Monitoring Stations

Monitoring Equipment

3.3. **Table 3.2** summarizes the noise monitoring equipment. Copies of calibration certificates are provided in **Appendix B**.

Table 3.2 Noise Monitoring Equipment				
Equipment	Model and Make	Qty.		
Integrating Sound Level Meter	• SVANTEK SVAN 957/ 979	1		
	BSW Atech BSWA 308	2		
	SOUNDTEK ST-120	2		
Calibrator	Bruel & Kjaer B&K4231	0		
	• SVAN 30A	0		

η

Monitoring Parameters, Frequency and Duration

Table 3.3 summarizes the monitoring parameters, frequency and total duration of 3.4. monitoring. The noise monitoring schedule is shown in Appendix D.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Monitoring Stations	Parameter	Period	Frequency	Measurement
M3(A) M4	L ₁₀ (30 min.) dB(A) L ₉₀ (30 min.) dB(A)	0700-1900 hrs on	Once per	Façade
M5(C)	$L_{eq}(30 \text{ min.}) dB(A)$	normal weekdays	week	2

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2 m above the ground.
- The battery condition was checked to ensure the correct functioning of the meter. •
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

_	frequency weighting	: A
_	time weighting	: Fast
_	time measurement	: 30 minutes

- Prior to and after each noise measurement, the meter was calibrated using a • Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In • addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused temporarily during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

- 3.5. The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.6. The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.7. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 3.8. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix H**.
- 3.9. The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.
- 3.10. Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.11. The major noise source identified at the designated noise monitoring stations are shown in **Table 3.4**.

Monitoring Stations Locations		Major Noise Source
M3(A)	The Bridge connecting The Latitude	Traffic Noise Site vehicle movement
M4	Lee Kau Yan Memorial School	Traffic Noise Site vehicle movement Excavation works Piling works Daily school activities
M5(C)	Mercy Grace's Home	Traffic Noise Site vehicle movement

Table 3.4	Major Noise Source identi	ified at the Designated Noise	Monitoring Stations

Table 5.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations				
Station	Baseline Noise Level, dB (A)	Noise Limit Level, dB (A)		
	N/A ⁽¹⁾	75		
M3(A)	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on		
	weekdays)	normal weekdays)		
	76.7 ⁽²⁾	70		
M4	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on		
	weekdays)	normal weekdays)		
	N/A ⁽¹⁾	75		
M5(C)	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on		
	weekdays)	normal weekdays)		

Table 3.5Baseline Noise Level and Noise Limit Level for Monitoring Stations

(*) Noise Limit Level is 65 dB(A) during school examination periods.

Note (1): The background Noise Level was recorded during the Lunch Hour of Construction Site

(i.e. 12:00-13:00) and to be used as the referencing value for compliance checking for Noise Action and Limit Level.

Note (2): The noise level due to the construction work (CNL) was calculated by the following formula:

 $CNL = 10 \log (10^{MNL/10} - 10^{BNL/10})$

Remarks: MNL = Measured Noise Level, BNL = Baseline Noise Level

4 COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1. The EM&A data was compared with the EIA predictions as summarized in **Tables 4.1** to **4.3**.

Station	Predicted 1-hr TSP conc.		Measured 1-hr TSP conc.	
	Scenario1 (Mid 2009 to Mid-	Scenario2 (Mid 2013 to Late 2016), µg/m ³ Average		
	2013), μg/m ³		Average	Range
AM2 – Lee Kau Yan Memorial School	290	312	59	34-78

Table 4.1 Comparison of 1-hr TSP data with EIA predictions

Table 4.2Comparison of 24-hr TSP data with EIA predictions

Station	Predicted 24-hr TSP conc.		Measured 24-hr TSP conc.	
	Scenario1 (Mid 2009 to Mid-2013), µg/m ³	Scenario2 (Mid 2013 to Late 2016), μg/m ³	Reporting Month (May 2021), μg/m ³	
			Average	Range
AM2(A) - Ng Wah				
Catholic Secondary	145	169	35	22 - 51
School				

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (L _{eq (30min)} dB(A))	Reporting Month (May 2021), L _{eq (30min)} dB(A)
M3(A) – The Bridge connecting The Latitude	Not predicted in EIA Report	$58 - 77^{(2)}$
M4 – Lee Kau Yan Memorial School	47 – 74	$63 - 77^{(1)}$
M5(C) – Mercy Grace's Home	Not predicted in EIA Report	$66 - 76^{(2)}$

Remarks:

(1) Since the baseline noise level was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.

(2) Since the background noise level was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.

- 4.2. The average 1-hour TSP concentrations at AM2 in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.
- 4.3. The average 24-hour TSP concentrations at AM2(A) in the reporting month were below the prediction in the approved EIA Report.

- 4.4. The noise monitoring results in the reporting month from M4 were outside the ranges of the predicted mitigated constriction noise levels in the EIA Report.
- 4.5. Construction noise levels at M3(A) and M5(C) were not predicted in EIA Report.

5 LANDSCAPE AND VISUAL

Monitoring Requirements

5.1. According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's operation during the construction period on a weekly basis, and to report on the contractor's compliance.

Results and Observations

- 5.2. Site audits were conducted on a weekly basis to monitor the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.
- 5.3. No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.4. Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in **Appendix J** shall be performed.

6 ENVIRONMENTAL INSPECTION

Site Inspections

- 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. The summaries of site inspections are attached in **Appendix I**.
- 6.2. Site inspections were conducted on 3, 12, 20, 24, and 31 May 2021 in the reporting month. A joint site inspection with the representative of IEC, ER, the Contractor and the ET was conducted on 12 May 2021. The details of the observations during site inspection are summarized in **Table 6.2**.

Review of Environmental Monitoring Procedures

6.3. The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Status of Environmental Licensing and Permitting

6.4. All permits/licenses obtained for the Project are summarized in **Table 6.1**.

Table 6.1 Summary of Environmental Licensing and Permit Status						
	Valid Period					
Permit No.	From	То	Status			
Environmental Permit (EP)						
EP-337/2009	23/04/09	N/A	Valid			
Effluent Discharge License						
WT00027495-2017	28/03/17	31/03/22	Valid			
Billing Account for Construction Waste Disposal						
A/C# 7026164	20/10/16	N/A	Valid			
Registration of Chemical Waste Producer						
WPN5213-229-P3271-01	14/08/17	14/08/17 N/A				
Construction Noise Permit (CNP)						
GW-RE0915-19	08/11/19	04/05/20	Expired			
GW-RE0984-19	15/12/19	24/02/20	Expired			
GW-RE0083-20	01/03/20	01/06/20	Expired			
GW-RE0266-20	02/05/20	31/07/20	Expired			

Status of Waste Management

6.5. The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix M**.

Implementation Status of Environmental Mitigation Measures

6.6. During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 6.2**.

Table 6.2 Observations and Recommendations of Site Inspections					
Parameters	Ref No.	Date	Observations and Recommendations	Follow-up/Rectification	
Water Quality	N/A	N/A	N/A	N/A	
Air Quality	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	
Noise	N/A	N/A	N/A	N/A	
Waste/ Chemical Management	N/A	N/A	N/A	N/A	
Landscape and Visual	N/A	N/A	N/A	N/A	
Permits/ Licenses	N/A	N/A	N/A	N/A	

4. J_4: Table 6 2 **NI** חו 0.014 ...

Summary of Mitigation Measures Implemented

6.7. An updated summary of the EMIS is provided in Appendix K.

Implementation Status of Event Action Plans

6.8. The Event Action Plans for air quality, noise and landscape and visual are presented in Appendix J.

1-hr TSP Monitoring

6.9. No Action/Limit Level exceedance was recorded in the reporting month.

24-hr TSP Monitoring

6.1 No Action/Limit Level exceedance was recorded in the reporting month.

Construction Noise

6.10. No Action/Limit Level exceedance was recorded in the reporting month.

Landscape and visual

6.11. No non-compliance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.12. The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix L**.

7 FUTURE KEY ISSUES

- 7.1. Major site activities undertaken for the coming two months include:
 - Install sheet piles and king posts at TTA Stage 4-3
 - Remove the 2nd layer of ELS and carry out structural works for subway at SKLR Playground
 - Carry out testing and commissioning on Lift LT3
 - Carry out finishing works inside the subway
 - Carry out E&M works inside the subway
 - Installation of cover plates for movement joint
 - Underground E&M, lighting and irrigation works at Road D1
 - Road Works at Road D1 and near PERE
 - Landscaping works at Road L7 and Road D1
 - Install sheet piles and king posts at TTA Stage 4-3
- 7.2. Key environmental issues in the coming month include:
 - Wastewater and runoff discharge from site;
 - Regular removal of silt, mud and sand along u-channels and sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and
 - rock breaking activities;
 - Water spraying for dust generating activity and on haul road;
 - Proper storage of construction materials on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site; and
 - Accumulation of general and construction waste on site.
 - Wastewater and runoff discharge from site;
 - Regular removal of silt, mud and sand along u-channels and sedimentation tanks;
- 7.3. The tentative major site activities is mentioned in Section 7.1 of this report. The impact prediction and control measures for the coming two months are summarized as follows:

Air quality impact (dust)

- Frequent watering of haul road and unpaved/exposed areas;
- Frequent watering or covering stockpiles with tarpaulin or similar means; and
- Watering of any earth moving activities.

Water quality impact (surface run-off)

- Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains;
- Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge;

- Provision of perimeter protection such as sealing of hoarding footings to avoid runoff from entering the existing storm water drainage system via public road; and
- Provision of measures to prevent discharge into the stream.

Noise Impact

- Scheduling of noisy construction activities if necessary to avoid persistent noisy operation;
- Controlling the number of plants use on site;
- Regular maintenance of machines; and
- Use of acoustic barriers if necessary.

Monitoring Schedule for Next Month

7.4. The tentative environmental monitoring schedules for next month are shown in **Appendix D**.

8 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.1. Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

<u>1-hr TSP Monitoring</u>

8.2. All 1-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hr TSP Monitoring

8.3. All 24-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

8.4. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Landscape and visual

8.5. No non-compliance was recorded in the reporting month.

Complaint and Prosecution

8.6. No environmental complaint and environmental prosecution was received in the reporting month.

Recommendations

8.7. According to the environmental audit performed in the reporting month, the following recommendations were made:

Water Quality

• The public drainage gully within the construction site shall be bounded by sand bags.

Air Quality

• The Contractor should cover the dusty material by dust screen.

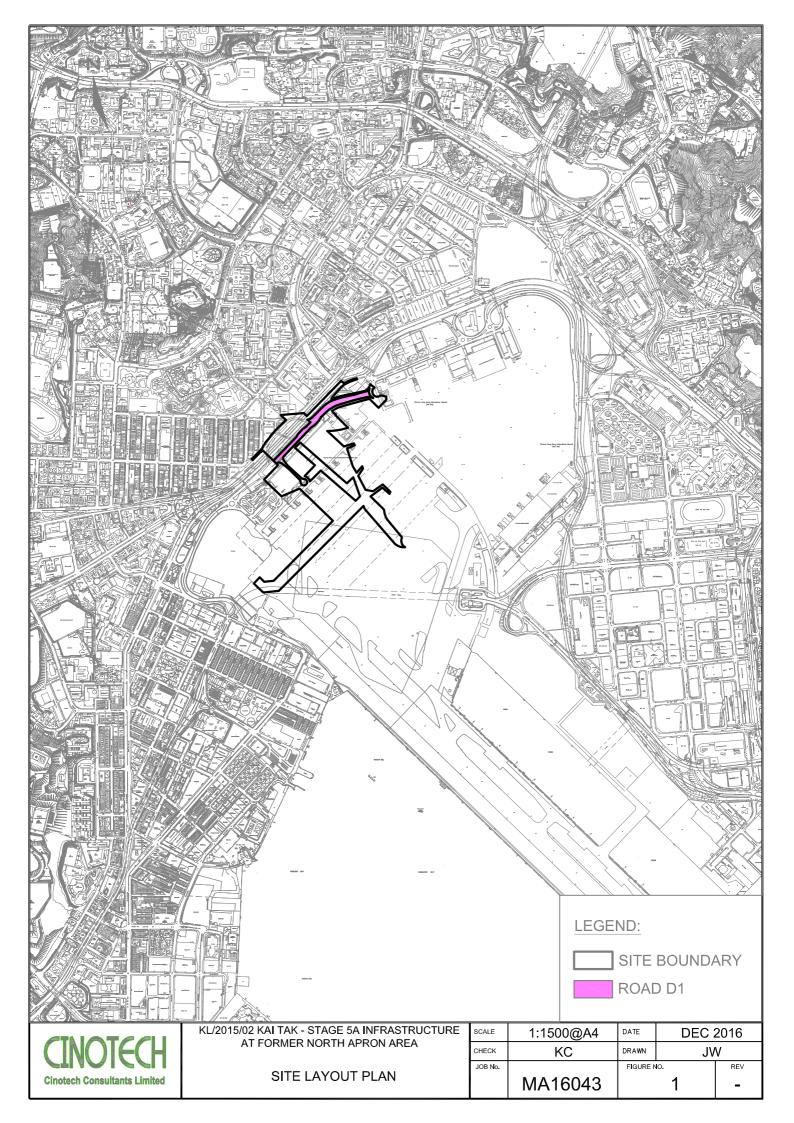
Waste/Chemical Management

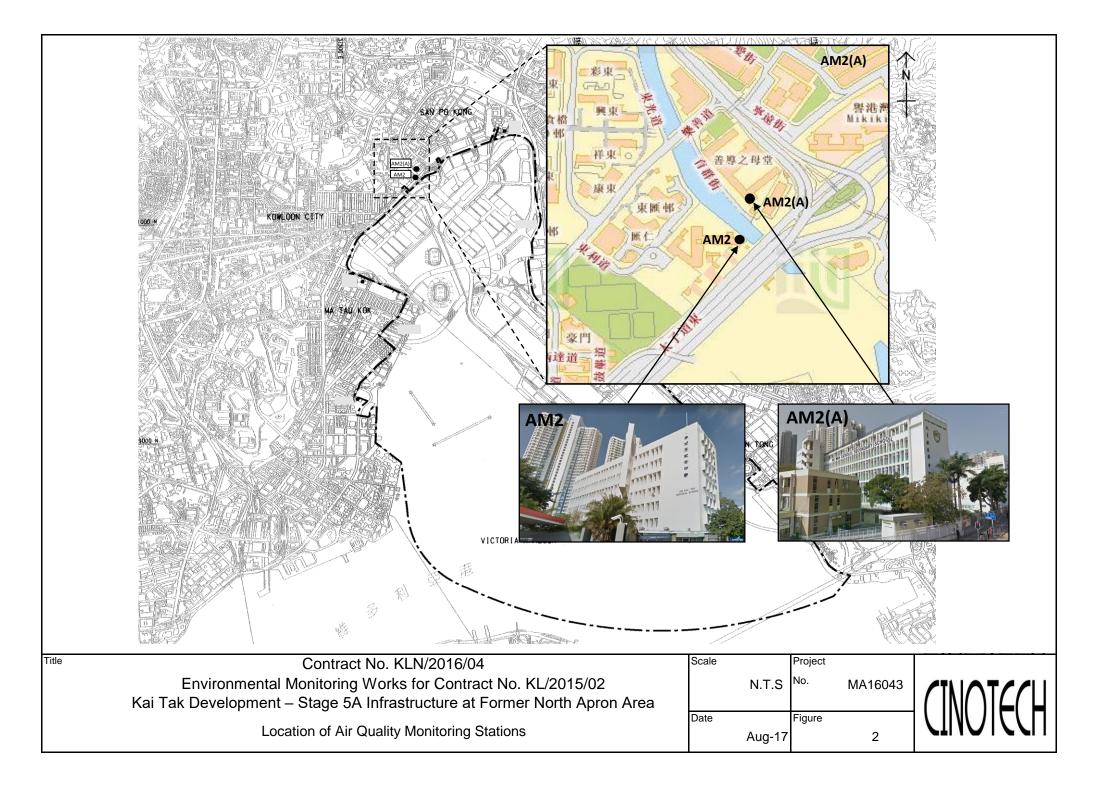
- The Contractor should store the construction/chemical material at the proper place.
- The Contractor was reminded to remove accumulated waste from the site.

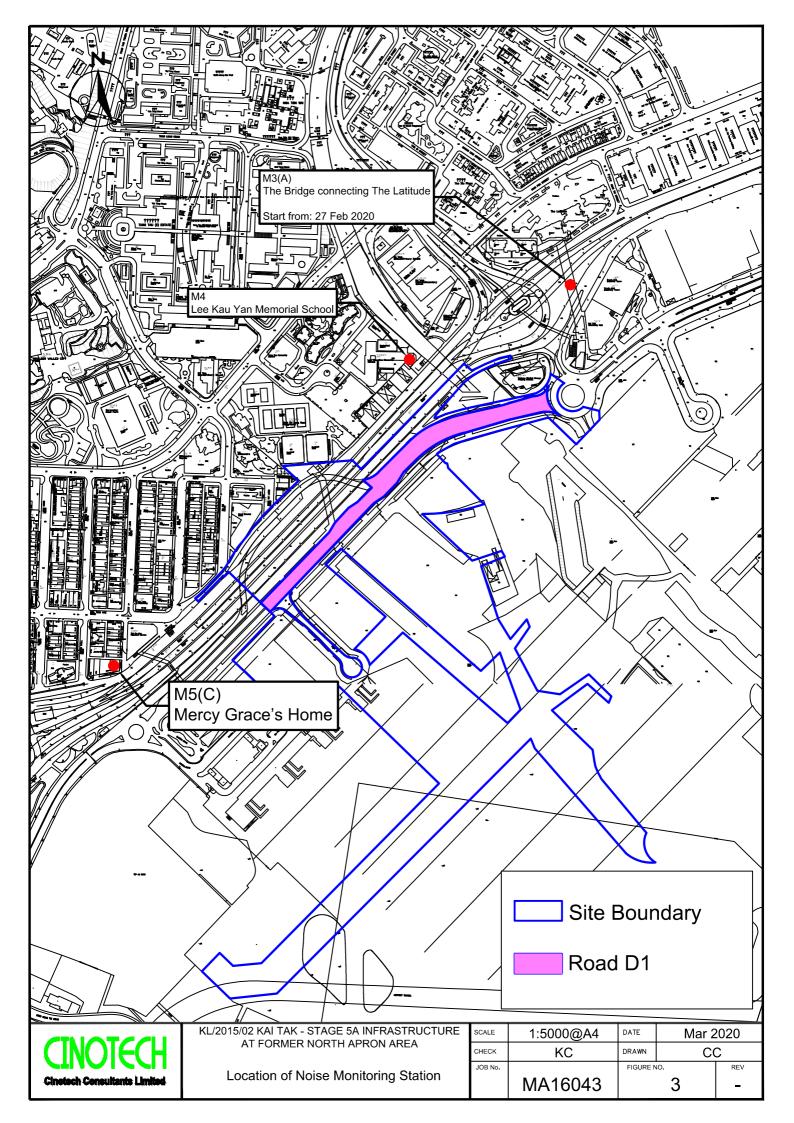
Landscape and Visual

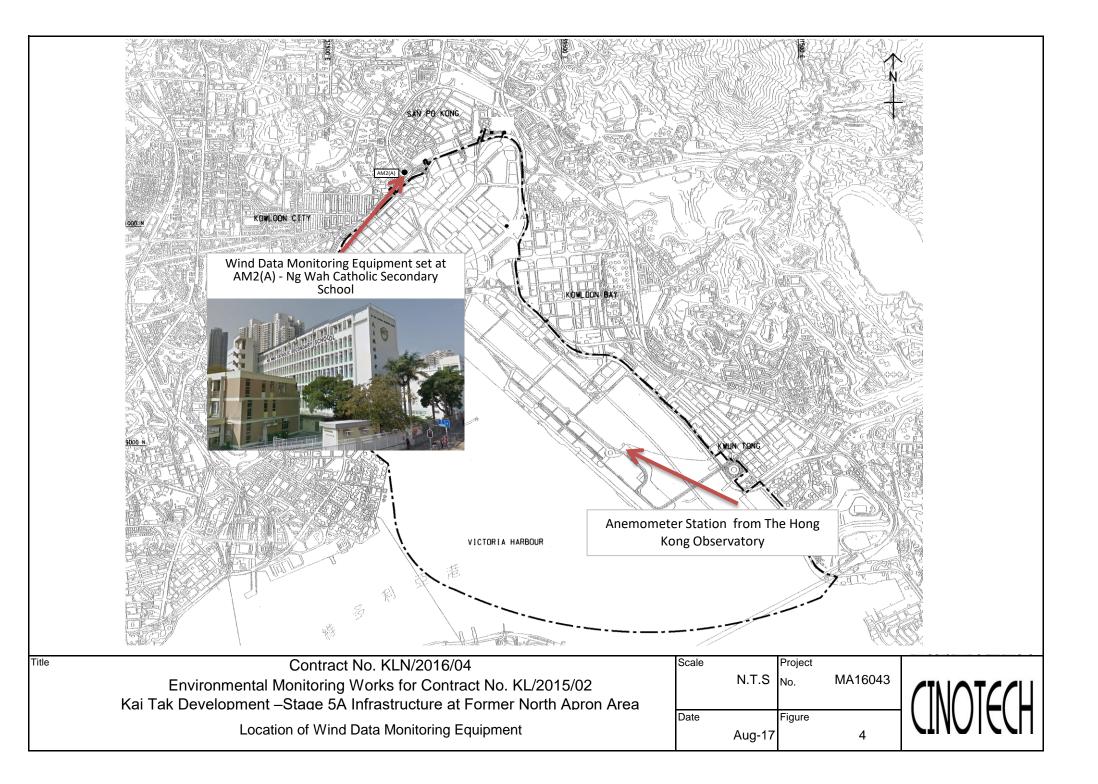
• The Contractor should review the condition of all tree protection area frequently.

FIGURES









APPENDIX A ACTION AND LIMIT LEVELS FOR AIR QUALITY AND NOISE

Appendix A - Action and Limit Levels

Location	Action Level, μg/m ³	Limit Level, μg/m ³
AM2	346	500

Table A-1Action and Limit Levels for 1-Hour TSP

Table A-2Action and Limit Levels for 24-Hour TSP

Location	Action Level, μg/m ³	Limit Level, µg/m ³
AM2(A)	157	260

Table A-3 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: 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. *70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

APPENDIX B-1 COPIES OF CALIBRATION CERTIFCATES (AIR)



Certificate of Calibration - Wind Monitoring Station

Description:	Ng Wah Catholic Seconday School - Weather Stations
Manufacturer:	Davis Instruments
Model No.:	Davis 6152, Vantage Pro2
Serial No.:	<u>BC180522050</u>
Equipment No.:	<u>SA-03-03</u>
Date of Calibration	<u>9-Apr-21</u>
Next Due Date	<u>9-Oct-21</u>

1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V1)	D = V1 - V2
0.0	0.0	0.0
1.6	1.5	0.1
2.0	2.0	0.0
3.0	3.1	-0.1

2. Performance check of Wind Direction

Wind Direction (°)		Difference D (°)
Wind Direction Reading (V1)	Marine Compass Value (V1)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

Test Specification:

- 1. Performance Wind Speed Test The wind meter was on-site calibrated against the anemometer
- 2. Performance Wind Direction Test The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by: ______ Approved by: _______ Lemy X27______ Wong Shing Kwai Henry Leung

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

File No. MA16043/13/0022

Project No. AM2(A) - Ng Wah Catholic Secondary School					
5-Mar-21		Next Due Date:	5-May-21	Operator:	SK
A-0)1-13	Model No.:	TE-5170	Serial No.	1352
		Ambient Condit	ion		
Temperature, Ta (K) 292.9		Pressure, Pa (mml	Hg)	764.7	
	5-M	5-Mar-21 A-01-13	5-Mar-21 Next Due Date: A-01-13 Model No.: Ambient Condit	5-Mar-21 Next Due Date: 5-May-21 A-01-13 Model No.: TE-5170 Ambient Condition	5-Mar-21 Next Due Date: 5-May-21 Operator: A-01-13 Model No.: TE-5170 Serial No.

Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313	
Last Calibration Date:	11-Jan-21	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	11-Jan-22	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc				

Calibration of TSP Sampler								
Calibration		Orfice		HVS				
Point	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	DW (HVS), in. of water	[ΔW x (Pa	/760) x (298/Ta)] ^{1/2} Y-axis		
1	13.0	3.65	62.46	10.2		3.23		
2	10.4	3.26	55.87	7.8		2.83		
3	7.4	2.75	47.13	5.6		2.39		
4	5.3	2.33	39.90	3.3		1.84		
5	3.0	1.75	30.03	1.9		1.39		
By Linear Regression of Y on X Slope , mw = 0.0575 Intercept, bw = -0.3691								
Correlation	coefficient* =	0.9972	-					
*If Correlation C	Coefficient < 0.990), check and recalibrate.	-					
		Set Point C	alculation					
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =4.32								
Remarks:								
Conducted by:	SK Wong	Signature: Signature:			Date:	5 March 2021		
Checked by:	Henry Leung	Signature:	hay		Date:	5 March 2021		

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

						File No.	MA16043/13/0023
Project No.	AM2(A) - Ng V	Wah Catholic Sec	ondary School				
Date:		lay-21			Jul-21	Operator:	SK
Equipment No.:					E-5170		1352
Equipment No	. <u>A-01-15</u>		widder No		2-5170	Senar No.	1552
			Ambient C	ondition			
Temperatur	re, Ta (K)	299.6	Pressure, Pa	(mmHg)		759.5	
		Or	ifice Transfer Sta	ndard Informa	tion		
Serial	No.	3864	Slope, mc	0.05846	Intercept		-0.00313
Last Calibra		11-Jan-21	1	mc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$) x (298/Ta)	1/2
Next Calibra	ation Date:	11-Jan-22		$Qstd = \{[\Delta H x]$	(Pa/760) x (298/7	$[a]^{1/2} - bc\} /$	mc
		•					
			Calibration of	ISP Sampler			
Calibration	DH (orifice),		fice	Qstd (CFM)	DW (HVS), in.	HVS	760) x (298/Ta)] ^{1/2}
Point	in. of water	[DH x (Pa/76	$(298/Ta)]^{1/2}$	X - axis	of water		Y-axis
1	14.1		3.74	64.09	10.2		3.18
2	11.4		3.37	57.64	7.8		2.78
3	8.0		2.82	48.29	5.6		2.36
4	5.7		2.38	40.77	3.3	1.81	
5	3.3		1.81	31.03	1.9	1.37	
By Linear Regr	ession of Y on X	X					
Slope, mw =				Intercept, bw =	-0.366	1	
	coefficient* =		.9974	-			
*If Correlation C	Coefficient < 0.9	90, check and rec	alibrate.				
From the TSP Fi	ald Calibratian	Cumua taka Oatd	Set Point Ca	alculation			
From the Regress							
From the Regress	sion Equation, t	lie i value acco	ording to				
		mw x Q	$std + bw = [\Delta W x]$	x (Pa/760) x (29	$98/Ta)]^{1/2}$		
	· D ' · III (
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (7	1a / 298) =	4.05		
Remarks:							
Conducted by:	SK Wong	Signature:	杨人			Date:	5 May 2021
	<u> </u>	č	<u> </u>				
Checked by:	Henry Leung	Signature:	- leng (Xoz		Date:	5 May 2021
			J.	i			

CINOTECH CONSULTANTS LIMITED



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date of Calibration 1-Apr-2				
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	1-Jun-21		
Model No.:	LD-5R						
Serial No.:	972778						
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3				
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	735 CPM			
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	735 CPM			
	Ca	libration of 1 h	r TSP				
Calibration	Laser Dust Monitor			HVS			
Point	Mass Concentration (µg/ X-axis	m3)	Mass concentration (µg/m ³) Y-axis				
1	52.0		108.0				
2	48.0		103.0				
3	41.0		96.0				
Average	47.0		102.3				
•	By Linear Regression of Y on X						
-	1.0806	Intere	cept, bw =	51.5430			
Correlation co	Defficient* = 0.9982						
		t Correlation F	actor				
Particaulate Con	centration by High Volume Sampler ((µg/m³)	102.3				
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)		47.0				
Measureing time	e, (min)		60.0				

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:	tol.	
	V *	

Technical Officer (Wong Shing Kwai)

Approved by:	-lem	, an]
Projec	t Manager (Å	Ienry Le	eung)

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CINOTECH CONSULTANTS LIMITED



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator	Date	of Calibration 1-Apr-21	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calib	ration Record 1-Jun-21	
Model No.:	LD-5R			
Serial No.:	972779			
Equipment No.:	SA-01-08	Sensitivity 0.001 mg/m3	_	
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitivity Adjustment	744 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivity Adjustment	744 CPM	
	Cal	libration of 1 hr TSP		
Calibration	Laser Dust Monitor		HVS	
Point Mass Concentration (µg/1 X-axis		m3) Ma	ss concentration (µg/m ³) Y-axis	
1				
1	54.0		108.0	
2	49.0		103.0	
3	43.0		96.0	
Average	48.7		102.3	
By Linear Regr Slope , mw =	ession of Y on X 1.0934	Intercept, bw =	49.1209	
Correlation co	oefficient* = 0.9991			
	Se	t Correlation Factor		
Particaulate Concentration by High Volume Sampler ($(\mu g/m^3)$	102.3	
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)		48.7	
Measureing time	e, (min)		60.0	
Set Correlation I	Factor, SCF			

In-house method in according to the instruction manual:

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:	to 1	

Technical Officer (Wong Shing Kwai)

Approved by:	-lem day	
		```

2.1

Project Manager (Henry Leung)

# **CINOTECH CONSULTANTS LIMITED**



# **Certificate of Calibration**

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date of Calibration 1-Apr-21		1-Apr-21
Manufacturer:	Sibata Scientific Technology LTD.		Validity of Calibr	ation Record	1-Jun-21
Model No.:	LD-5R				
Serial No.:	972781				
Equipment No.:	SA-01-10	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitivi	ity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivity	y Adjustment	734 CPM	
	Cal	libration of 1 hr	TSP		
Calibration	Laser Dust Monitor			HVS	
Point Mass Concentration (µg/i X-axis		m3)	Mas	s concentration (με <b>Y-axis</b>	g/m ³ )
1					
1	60.0		108.0		
2	52.0		103.0		
3	41.0		96.0		
Average	51.0		102.3		
By Linear Regr Slope , mw = Correlation co	ression of Y on X 		ept, bw =	70.1081	
		t Correlation Fa	ctor		
Particaulate Concentration by High Volume Sampler (		$(\mu g/m^3)$		102.3	
Particaulate Con	centration by Dust Meter ( $\mu g/m^3$ )			51.0	
Measureing time	;, (min)			60.0	
Set Correlation H	Factor, SCF				

In-house method in according to the instruction manual:

SCF = [ K=High Volume Sampler / Dust Meter, (µg/m3) ]

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

Technical Officer (Wong Shing Kwai)

2.0





Certificate of Calibration

			Calibration	Certificati	on Informat	tion		
Cal. Date:	January 11	, 2021	Roots	meter S/N:	438320	Та:	297	°К
Operator:	Jim Tisch					Pa:	750.1	mm Hg
Calibration	Model #:	TE-5025A	Calil	brator S/N:	3864			
	· · · · · · · · · · · · · · · · · · ·							1
		Vol. Init	Vol. Final	ΔVol.	∆Time	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4470	3.2	2.00	
	2	3	4	1	1.0210	6.4	4.00	
	3	5	6	1	0.9140	8.0	5.00	
	4	, 7	8	1	0.8670	8.8	5.50	
	5	9	10	1	0.7140	12.9	8.00	
			[	Data Tabula	tion			]
			/ / Pa	V Tetd V				
	Vstd	Qstd	√ ^{∆H} (Pstd	)( <u>Tstd</u> )		Qa	√∆H( Ta/Pa )	
	(m3)	(x-axis)	y (y-ax		Va	(x-axis)	(y-axis)	
	0.9860	0.6814	1.40		0.9957	0.6881	0.8899	
	0.9818	0.9616	1.99	02	0.9915	0.9711	1.2585	1
	0.9797	1.0719	2.22	51	0.9893	1.0824	1.4071	1
	0.9786	1.1288	2.33	37	0.9883	1.1399	1.4757	1
	0.9732	1.3630	2.814	46	0.9828	1.3765	1.7798	
		m=	2.065	566		m=	1.29348	
		b=	0.003	815	QA	b=	0.00199	
		r=	0.999	96		r=	0.99996	
				Calculatio	ns			
	Vstd=	ΔVol((Pa-ΔP)	)/Pstd)(Tstd/Ta	a)	Va=	ΔVol((Pa-Δ	P)/Pa)	
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd=	1/m (( \\ \[ \Delta H (	Pa <u>Tstd</u> Pstd Ta	-))-b)	Qa=	$1/m\left(\sqrt{\Delta H}\right)$	l(Ta/Pa))-b)	
	Standard	Conditions						
Tstd						RECA	LIBRATION	
Pstd	760	mm Hg						400
A 1 1 . 1+1		Key	1120)				nnual recalibratio	-
		ter reading (i					Regulations Part	
		eter reading perature (°K)					, Reference Meth	
		ressure (mm				1	ended Particulat	
b: intercept	the second s				tn tn	e Atmosphe	ere, 9.2.17, page	30
m: slope								

isch Environmental, Inc. 45 South Miami Avenue illage of Cleves, OH 45002 <u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

APPENDIX B-2 COPIES OF CALIBRATION CERTIFCATES (NOISE)



0025914

Customer : Cinotech Consultants Limited RM 1710, Technology Park,		Object 1 : Serial No. /Ref. No. : Object 2 :	Microphone
18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005		Serial No. /Ref. No. : Manufacturer : Sva	
Date of calibration: Date of the recommended re-calibration:	22/01/2021 22/01/2022	Certificate No.: Handle by:	0025914 E0002

#### **Measuring results**

	Reference value	Indication value	Deviation	Allowed deviation	Object
	94.0dB	93.6dB	-0.4dB	+/- 1.5dB	1
ſ	114.0dB	113.5dB	-0.5dB	+/- 1.5dB	1

#### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

#### Uncertainty

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

Measured value(s)

the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager



0024993

Customer :		Object 1 : BSWA 308 SLM
Cinotech Consultants Limited		Serial No. /Ref. No. : 570183 / 550233
RM 1710, Technology Park,		Object 2 :
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. :
Hong Kong		
Customer Code : SVEC09005		Manufacturer : BSWAtech
Date of calibration:	07/10/2020	Certificate No.: 0024993
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002

#### Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.4dB	-0.6dB	+/- 1.5dB	1
114.0dB	113.2dB	-0.8dB	+/- 1.5dB	1

#### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

#### **Uncertainty**

+/- 0.2 dB for probability not less than 95%.

Appleone Calibration Laboratory Ltd.

#### **Conformity**

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. 5 The calibrations certificate may not be reproduced

5. The calibrations certificate may not be reproduced.

Measured value(s) within the allowable deviation.

Performed by
Calibration Technician Mr. K.L. Ng

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393



0024995

Customer :		Object 1 : BSWA 308 SLM
Cinotech Consultants Limited		Serial No. /Ref. No. : 570187 / 550841
RM 1710, Technology Park,		Object 2 :
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No.
Hong Kong		
Customer Code : SVEC09005		Manufacturer : BSWAtech
Date of calibration:	07/10/2020	Certificate No.: 0024995
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002

### Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	93.1dB	-0.9dB	+/- 1.5dB	1
ſ	114.0dB	113.1dB	-0.9dB	+/- 1.5dB	1

### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

#### Uncertainty

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. 5. The calibrations certificate may not be reproduced.

Measured value(s)

**Calibration Technician** 

the allowable deviation.

Performed by

Approved by

Mr. K.S. Ng

**Quality Manager** 

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, KIn, HKSAR

Mr. K.L. Ng

Tel: +852 2370 4437 Fax: +852 2114 0393



0025247

Customer :		Object 1 :	ST-120 sound calibrator
Cinotech Consultants Limited		Serial No. /Ref. No. :	181001608
RM 1710, Technology Park,		Object 2 :	
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. ::	
Hong Kong			
Customer Code : SVEC09005		Manufacturer : Sour	ndtek
Date of calibration:	05/11/2020	Certificate No .:	0025247
Date of the recommended re-calibration:	05/11/2021	Handle by:	E0002

#### Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	1

#### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949, sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source -

#### Uncertainty

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

Measured value(s)	within the	e allowable deviation		
Performed by	1		Approved	ьу
	at		L	~ ``
Calibration Technicia	an	Mr. K.L. Ng	Quality Ma	nager
Appleone Calibration Lat	poratory Ltd. Rm	1309, 13/F, No.77 Wing Hor	ng St, Kln, HKSAR	Tel: +852 2370 4437 Fax: +852 2114 0393



0025249

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong		Object 1 : Serial No. /Ref. No. : Object 2 : Serial No. /Ref. No. :	ST-120 sound calibrator 181001636
Customer Code :     SVEC09005       Date of calibration:     0	)5/11/2020 )5/11/2021	Manufacturer : Sour Certificate No.: Handle by:	ndtek 0025249 E0002

#### Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	1

# Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949, sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source ...

#### **Uncertainty**

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

Measured value(s) within	the allowable deviation.	
Performed by		Approved by
ar		L
Calibration Technician	Mr. K.L. Ng	Quality Manager
Appleone Calibration Laboratory Ltd.	Rm1309, 13/F, No.77 Wing Hong S	t, KIn, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

APPENDIX C WEATHER INFORMATION

May 2021				
Day	Mean Pressure (hPa)	Air Temperature	Mean Relative Humidity (%)	Total Rainfall (mm)
		Mean (deg. C)		
1	1012.2	26.3	76	0
2	1013	26.5	82	1.2
3	1012.5	24.3	89	8.8
4	1011.1	26.6	84	12.5
5	1012.9	26.6	79	0.5
6	1015.4	25.2	79	Trace
7	1013.2	26.6	77	0
8	1009.8	27.7	79	0
9	1009	28.3	79	0
10	1008.8	28.4	76	0
11	1008.4	29.2	77	Trace
12	1008.3	29.6	78	Trace
13	1008.5	29.5	79	3.9
14	1009	30	77	0
15	1009	29.9	74	0
16	1009.1	30.2	74	Trace
17	1009.8	30.4	75	0
18	1009.2	30.2	76	1.3
19	1007.9	30.3	75	0
20	1008.1	30.5	75	0
21	1007.8	30.7	75	Trace
22	1007	30.5	77	2.6
23	1007.8	31.4	74	Trace
24	1009.6	29.8	81	15.7
25	1010.2	28.8	83	4.8
26	1009.4	30.1	77	4
27	1009.6	30.3	76	1
28	1009.6	30.6	77	0
29	1007.1	30.2	79	0
30	1005.1	30.3	81	Trace
31	1004.3	29.6	84	8.7

May 2021

May 2021						
Т	Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction			
01-May-21	00:00	ENE	0.1			
01-May-21	01:00	ENE	0.1			
01-May-21	02:00	SW	0.1			
01-May-21	03:00	E	0.1			
01-May-21	04:00	ESE	0.1			
01-May-21	05:00	NE	0.1			
01-May-21	06:00	SW	0.1			
01-May-21	07:00	SW	0.1			
01-May-21	08:00	WSW	0.1			
01-May-21	09:00	W	0.1			
01-May-21	10:00	SSW	0.1			
01-May-21	11:00	WSW	0.1			
01-May-21	12:00	SSW	0.1			
01-May-21	13:00	SSE	0.1			
01-May-21	14:00	SSW	0.1			
01-May-21	15:00	SSE	0.1			
01-May-21	16:00	ENE	0.1			
01-May-21	17:00	E	0.2			
01-May-21	18:00	ENE	0.2			
01-May-21	19:00	ENE	0.2			
01-May-21	20:00	ENE	0.1			
01-May-21	21:00	E	0.1			
01-May-21	22:00	NE	0.1			
01-May-21	23:00	SSW	0.1			
02-May-21	00:00	NW	0.1			
02-May-21	01:00	NE	0.1			
02-May-21	02:00	E	0.2			
02-May-21	03:00	ENE	0.1			
02-May-21	04:00	WNW	0.1			
02-May-21	05:00	SSW	0.1			
02-May-21	06:00	NE	0.1			
02-May-21	07:00	ENE	0.1			
02-May-21	08:00	E	0.1			
02-May-21	09:00	WSW	0.2			
02-May-21	10:00	ENE	0.2 0.2			
02-May-21	11:00	WSW				
02-May-21	12:00	W W	1.2			
02-May-21	13:00	WSW	1.5 1.9			
02-May-21	14:00	<u> </u>	0.5			
02-May-21 02-May-21	15:00 16:00	WNW	0.5			
02-May-21 02-May-21	17:00	WSW	0.6			
02-May-21 02-May-21	18:00	ESE	0.0			
02-May-21 02-May-21	19:00	ESE	0.1			
02-May-21 02-May-21	20:00	ENE	0.1			
02-May-21 02-May-21	20:00	SW	0.1			
02-May-21 02-May-21	22:00	SW	0.1			
02-May-21	23:00	ESE	0.1			
02-111ay-21	25.00		0.1			

May 2021				
Table	Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction	
03-May-21	00:00	W	0.1	
03-May-21	01:00	ENE	0.1	
03-May-21	02:00	NNE	0.1	
03-May-21	03:00	ENE	0.1	
03-May-21	04:00	W	0.1	
03-May-21	05:00	WSW	0.1	
03-May-21	06:00	ENE	0.1	
03-May-21	07:00	ENE	0.1	
03-May-21	08:00	WSW	0.7	
03-May-21	09:00	W	0.3	
03-May-21	10:00	WSW	1.8	
03-May-21	11:00	W	0.7	
03-May-21	12:00	W	2.5	
03-May-21	13:00	WSW	2.6	
03-May-21	14:00	WSW	3.6	
03-May-21	15:00	W	1.7	
03-May-21	16:00	WNW	1.9	
03-May-21	17:00	W	1.3	
03-May-21	18:00	WSW	0.4	
03-May-21	19:00	SSW	0.1	
03-May-21	20:00	S	0.1	
03-May-21	21:00	WSW	0.2	
03-May-21	22:00	W	0.1	
03-May-21	23:00	WSW	0.1	
04-May-21	00:00	WSW	1.3	
04-May-21	01:00	WSW	0.1	
04-May-21	02:00	WNW	0.3	
04-May-21	03:00	W	0.1	
04-May-21	04:00	SSW	0.1	
04-May-21	05:00	NE	0.1	
04-May-21	06:00	WSW	0.1	
04-May-21	07:00	WSW	0.1	
04-May-21	08:00	SSW	0.1	
04-May-21	09:00	W	0.3	
04-May-21	10:00	SSW	0.2	
04-May-21	11:00	W	0.3	
04-May-21	12:00	WSW	0.2	
04-May-21	13:00	WSW	2.8	
04-May-21	14:00	NW	1.4	
04-May-21	15:00	WSW	0.8	
04-May-21	16:00	SSW	0.7	
04-May-21	17:00	SW	3.2	
04-May-21	18:00	SSW	0.7	
04-May-21	19:00	W	0.1	
04-May-21	20:00	SSE	0.2	
04-May-21	21:00	W	0.1	
04-May-21	22:00	WSW	0.8	
04-May-21	23:00	WSW	0.2	

May 2021						
Т	Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction			
05-May-21	00:00	SW	0.1			
05-May-21	01:00	SW	0.1			
05-May-21	02:00	SW	0.2			
05-May-21	03:00	SW	0.1			
05-May-21	04:00	NW	0.1			
05-May-21	05:00	SW	0.1			
05-May-21	06:00	SSW	0.1			
05-May-21	07:00	WSW	0.1			
05-May-21	08:00	S	0.2			
05-May-21	09:00	WSW	0.5			
05-May-21	10:00	WSW	1.1			
05-May-21	11:00	W	1.6			
05-May-21	12:00	WSW	0.9			
05-May-21	13:00	SSW	1.1			
05-May-21	14:00	WSW	2.4			
05-May-21	15:00	WSW	4.4			
05-May-21	16:00	S	4.1			
05-May-21	17:00	WSW	3.2			
05-May-21	18:00	SSW	0.3			
05-May-21	19:00	S	0.8			
05-May-21	20:00	S	0.6			
05-May-21	21:00	SSW	0.1			
05-May-21	22:00	SW	0.1			
05-May-21	23:00	SW	0.1			
06-May-21	00:00	S	0.1			
06-May-21	01:00	S	0.1			
06-May-21	02:00	SSW	0.1			
06-May-21	03:00	E	0.1			
06-May-21	04:00	NE	0.1			
06-May-21	05:00	ESE	0.1			
06-May-21	06:00	E	0.1			
06-May-21	07:00	NE	0.1			
06-May-21	08:00	W	0.1			
06-May-21	09:00	SSW	1.3			
06-May-21	10:00	SW	3.2			
06-May-21	11:00	SSW	3.1			
06-May-21	12:00	S	1.1			
06-May-21	13:00	WSW	0.5			
06-May-21	14:00	SW	1.4			
06-May-21	15:00	SW	1.7			
06-May-21	16:00	S	1			
06-May-21	17:00	SSW	1.8 1.2			
06-May-21 06-May-21	18:00 19:00	SSW SW	0.1			
		SW SSW				
06-May-21	20:00	<u> </u>	0.1			
06-May-21	21:00	SSW	0.1			
06-May-21 06-May-21	22:00 23:00	SSW SSE	0.6 0.2			
00-1v1ay-21	23.00	SOL	0.2			

	Ma	y 2021	
Table		speed and Directions	5
Date	Time	Wind Speed m/s	Direction
07-May-21	00:00	SSW	0.3
07-May-21	01:00	S	0.2
07-May-21	01:00	SW	0.1
07-May-21	03:00	SW	0.1
07-May-21	03:00	SW	1.1
07-May-21	05:00	E	0.2
07-May-21	06:00	NE	0.1
07-May-21	07:00	SSW	0.1
07-May-21	08:00	SSW	0.1
07-May-21	09:00	SSE	0.7
07-May-21	10:00	S	0.5
07-May-21	11:00	SW	2
07-May-21	12:00	WSW	0.7
07-May-21	13:00	S	0.8
07-May-21	14:00	WSW	2.1
07-May-21	15:00	SSW	0.8
07-May-21	16:00	SSW	0.0
07-May-21	17:00	S	0.1
07-May-21 07-May-21	18:00	SW	1
07-May-21 07-May-21	19:00	SSE	0.3
07-May-21 07-May-21	20:00	SSW	0.3
07-May-21 07-May-21	20:00	SW	0.2
07-May-21 07-May-21	22:00	SW	0.4
07-May-21 07-May-21	23:00	SSW	0.1
07-May-21 08-May-21	00:00	WSW	0.2
08-May-21	01:00	SW	0.2
08-May-21	01:00	SW	0.2
08-May-21	02:00	WSW	0.3
08-May-21	03:00	SSW	0.2
08-May-21	05:00	S	0.0
08-May-21	05:00	SW	0.4
08-May-21	00:00	SW	0.0
08-May-21	07:00	SW	1.4
08-May-21	08:00	SW	0.1
08-May-21	10:00	SSW	0.1
08-May-21	11:00	SSW	2.2
08-May-21	12:00	SSW	2.2
08-May-21	12:00	WSW	1.2
08-May-21	13:00	S S	1.2
08-May-21	15:00	SW	2.1
08-May-21	16:00	SW	2.1
08-May-21	17:00	WSW	0.6
08-May-21	18:00	S	0.0
08-May-21	19:00	SSW	0.2
08-May-21	20:00	SW	0.8
08-May-21	20:00	SW	0.3
08-May-21	21:00	SSW	0.2
08-May-21	22:00	SSW	0.5
00-1v1ay-21	23.00	אא ממ	0.1

May 2021					
Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction		
09-May-21	00:00	WSW	0.1		
09-May-21	01:00	SSW	0.1		
09-May-21	02:00	SW	0.1		
09-May-21	03:00	ŚW	0.1		
09-May-21	04:00	S	0.1		
09-May-21	05:00	S	0.1		
09-May-21	06:00	SW	0.1		
09-May-21	07:00	S	0.1		
09-May-21	08:00	SW	0.2		
09-May-21	09:00	W	0.5		
09-May-21	10:00	WSW	0.7		
09-May-21	11:00	WSW	0.1		
09-May-21	12:00	WSW	0.1		
09-May-21	13:00	SW	2.5		
09-May-21	14:00	SSW	1.5		
09-May-21	15:00	SW	2.3		
09-May-21	16:00	SSW	1.1		
09-May-21	17:00	SW	2.2		
09-May-21	18:00	SW	0.9		
09-May-21	19:00	SSW	0.1		
09-May-21	20:00	S	0.2		
09-May-21	21:00	SW	0.1		
09-May-21	22:00	SSW	0.1		
09-May-21	23:00	SSW	0.1		
10-May-21	00:00	SSW	0.1		
10-May-21	01:00	SSW	0.1		
10-May-21	02:00	Ν	0.1		
10-May-21	03:00	SSW	0.1		
10-May-21	04:00	SSW	0.4		
10-May-21	05:00	SSW	0.1		
10-May-21	06:00	WNW	0.1		
10-May-21	07:00	NE	0.1		
10-May-21	08:00	SW	0.3		
10-May-21	09:00	WSW	0.9		
10-May-21	10:00	W	0.6		
10-May-21	11:00	WNW	1.7		
10-May-21	12:00	WSW	2.1		
10-May-21	13:00	NW	1.1		
10-May-21	14:00	WNW	1.7		
10-May-21	15:00	E	0.2		
10-May-21	16:00	NE	1		
10-May-21	17:00	SE	0.1		
10-May-21	18:00	SSW	0.1		
10-May-21	19:00	SSW	0.1		
10-May-21	20:00	E	0.1		
10-May-21	21:00	ENE	0.2		
10-May-21	22:00	SW	0.2		
10-May-21	23:00	NE	0.2		

May 2021			
Table		speed and Directions	5
Date	Time	Wind Speed m/s	Direction
11-May-21	00:00	NNE	0.1
11-May-21	01:00	W	0.1
11-May-21	02:00	SSW	0.1
11-May-21	03:00	WSW	0.1
11-May-21	04:00	N	0.1
11-May-21	05:00	NE	0.1
11-May-21	06:00	NNE	0.1
11-May-21	07:00	SSW	0.1
11-May-21	08:00	WSW	0.1
11-May-21	09:00	Ν	0.1
11-May-21	10:00	W	0.2
11-May-21	11:00	NNW	0.2
11-May-21	12:00	W	0.7
11-May-21	13:00	Е	0.1
11-May-21	14:00	ENE	0.1
11-May-21	15:00	ENE	0.2
11-May-21	16:00	ESE	0.1
11-May-21	17:00	SSW	0.1
11-May-21	18:00	ESE	0.1
11-May-21	19:00	ENE	0.1
11-May-21	20:00	ENE	0.1
11-May-21	21:00	NW	8.2
11-May-21	22:00	WSW	0.2
11-May-21	23:00	ENE	0.2
12-May-21	00:00	ESE	0.1
12-May-21	01:00	WSW	0.1
12-May-21	02:00	SW	0.1
12-May-21	03:00	SSW	0.1
12-May-21	04:00	SW	0.1
12-May-21	05:00	WSW	0.1
12-May-21	06:00	WSW	0.1
12-May-21	07:00	ENE	0.4
12-May-21	08:00	SSE	0.4
12-May-21	09:00	ENE	0.2
12-May-21	10:00	NE NNE	0.3
12-May-21 12-May-21	11:00 12:00	ENE	0.5 0.5
	12.00	NNW	
12-May-21 12-May-21	13:00		0.2
12-May-21 12-May-21	14:00	NNE ENE	0.1 0.2
12-May-21 12-May-21	15:00 16:00	ENE E	0.2
12-May-21	17:00	SE	0.1
12-May-21 12-May-21	17:00	SW	0.1
12-May-21 12-May-21	19:00	WSW	0.1
12-May-21	20:00	W	0.1
12-May-21 12-May-21	20:00	N	0.1
12-May-21 12-May-21	21:00	WSW	0.1
12-May-21 12-May-21	23:00	SW	0.1
12 may-21	23.00	511	0.1

May 2021						
т	Table II: Wind Speed and Directions					
	1	-	1			
Date	Time	Wind Speed m/s	Direction			
13-May-21	00:00	SW	0.1			
13-May-21	01:00	SW	0.1			
13-May-21	02:00	NNE				
13-May-21	03:00	NNE SW	0.1			
13-May-21	04:00					
13-May-21	05:00 06:00	WNW ENE	0.1			
13-May-21		SSE				
13-May-21	07:00	ENE	0.3			
13-May-21	08:00	SE	0.1			
13-May-21	09:00	<u>SE</u>				
13-May-21	10:00		0.7			
13-May-21	11:00 12:00	ESE	0.3			
13-May-21	12:00	ESE ESE	0.1			
13-May-21 13-May-21	13:00 14:00	ESE	0.1			
13-May-21 13-May-21	15:00	E E E	0.5			
		E E	0.3			
13-May-21	16:00	E E	0.4			
13-May-21	17:00 18:00	ESE	0.3			
13-May-21 13-May-21	19:00	ESE	0.1			
13-May-21 13-May-21	20:00	SSE	0.2			
13-May-21 13-May-21	20:00	SE	1.9			
13-May-21 13-May-21	21:00	E	0.1			
13-May-21 13-May-21	23:00	ENE	0.1			
13-May-21 14-May-21	00:00	ENE	0.1			
14-May-21 14-May-21	01:00	ENE	0.1			
14-May-21 14-May-21	02:00	ESE	0.1			
14-May-21 14-May-21	02:00	ESE	0.1			
14-May-21 14-May-21	03:00	E	0.1			
14-May-21 14-May-21	05:00	E	0.1			
14-May-21 14-May-21	06:00	SSE	0.1			
14-May-21 14-May-21	07:00	SE	0.1			
14-May-21	07:00	ESE	0.1			
14-May-21 14-May-21	09:00	NE	0.1			
14-May-21 14-May-21	10:00	ENE	0.1			
14-May-21 14-May-21	11:00	ENE	0.1			
14-May-21 14-May-21	12:00	ENE	0.1			
14-May-21	13:00	E	0.2			
14-May-21	14:00	SSW	1.2			
14-May-21	15:00	SSW	0.2			
14-May-21	16:00	E	0.1			
14-May-21	17:00	E	0.1			
14-May-21	18:00	ENE	0.1			
14-May-21	19:00	ESE	0.1			
14-May-21	20:00	ESE	0.1			
14-May-21	21:00	E	0.1			
14-May-21	22:00	ESE	0.1			
14-May-21	23:00	ENE	0.1			
1 - 110y-21	25.00		0.1			

May 2021			
Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction
15-May-21	00:00	ENE	0.1
15-May-21	01:00	E	0.1
15-May-21	02:00	ENE	0.1
15-May-21	03:00	ENE	0.2
15-May-21	04:00	ESE	0.2
15-May-21	05:00	ENE	0.1
15-May-21	06:00	ENE	0.1
15-May-21	07:00	ESE	0.1
15-May-21	08:00	Е	0.1
15-May-21	09:00	S	0.3
15-May-21	10:00	SSE	0.2
15-May-21	11:00	SE	0.7
15-May-21	12:00	SSE	0.1
15-May-21	13:00	ESE	0.1
15-May-21	14:00	ENE	0.1
15-May-21	15:00	SE	0.4
15-May-21	16:00	NE	0.8
15-May-21	17:00	SSE	0.3
15-May-21	18:00	Е	0.2
15-May-21	19:00	ESE	0.2
15-May-21	20:00	ENE	0.2
15-May-21	21:00	SE	0.1
15-May-21	22:00	Е	0.1
15-May-21	23:00	ENE	0.2
15-May-21	00:00	ENE	0.3
16-May-21	01:00	NE	0.2
16-May-21	02:00	ENE	0.1
16-May-21	03:00	SE	0.1
16-May-21	04:00	E	0.1
16-May-21	05:00	N	0.1
16-May-21	06:00	N	0.1
16-May-21	07:00	WSW	0.1
16-May-21	08:00	N	0.1
16-May-21	09:00	ENE	0.1
16-May-21	10:00	SW	0.1
16-May-21	11:00	NW	0.1
16-May-21	12:00	SSE	0.1
16-May-21	13:00	ESE	0.1
16-May-21	14:00	SE NE	0.2
16-May-21	15:00	NE ENE	0.1
16-May-21	16:00	SSW	0.1
16-May-21 16-May-21	17:00 18:00	<u> </u>	0.7
16-May-21	18:00	ENE	0.1
16-May-21	20:00	ENE	0.2
16-May-21	20:00	SE	0.1
16-May-21	21:00	E E	0.1
16-May-21	23:00	E	0.1
10-1v1ay-21	25.00	Ľ	0.1

May 2021						
Т	Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction			
16-May-21	00:00	E	0.1			
10 May 21 17-May-21	01:00	W	0.1			
17-May-21	02:00	ENE	0.1			
17-May-21	03:00	N	0.1			
17-May-21	04:00	ENE	0.1			
17-May-21	05:00	W	0.2			
17-May-21	06:00	Е	0.2			
17-May-21	07:00	SW	0.2			
17-May-21	08:00	NNW	0.2			
17-May-21	09:00	W	0.1			
17-May-21	10:00	W	0.1			
17-May-21	11:00	WSW	0.7			
17-May-21	12:00	W	1.1			
17-May-21	13:00	W	0.4			
17-May-21	14:00	WNW	0.7			
17-May-21	15:00	WNW	1.9			
17-May-21	16:00	W	2.7			
17-May-21	17:00	SW	0.8			
17-May-21	18:00	SW	2.1			
17-May-21	19:00	WSW	0.3			
17-May-21	20:00	SW	0.2			
17-May-21	21:00	W	0.1			
17-May-21	22:00	SSW	0.2			
17-May-21	23:00	WSW	0.2			
17-May-21	00:00	WSW	0.2			
18-May-21	01:00	SSW	0.1			
18-May-21	02:00	WSW	0.2			
18-May-21	03:00	SSW	0.1			
18-May-21	04:00	WSW	0.1			
18-May-21	05:00	SW	0.1			
18-May-21	06:00	NW	0.1			
18-May-21	07:00	ENE	0.1			
18-May-21	08:00	SSW	0.2			
18-May-21	09:00	NE	0.1			
18-May-21	10:00	WNW SW/	0.1			
18-May-21	11:00 12:00	SW W	0.4			
18-May-21	12:00	WSW				
18-May-21	13:00 14:00	WSW WSW	0.9			
18-May-21 18-May-21	15:00	WSW WNW	1.2			
18-May-21 18-May-21	16:00	WINW	1.2			
18-May-21	17:00	WSW	0.2			
18-May-21	18:00	SSE	0.2			
18-May-21	19:00	SSW	0.1			
18-May-21	20:00	ENE	0.4			
18-May-21 18-May-21	21:00	WSW	0.1			
18-May-21	22:00	SE	0.1			
18-May-21	23:00	SW	0.2			
10 may-21	25.00	511	0.2			

May 2021				
Table	Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction	
18-May-21	00:00	WSW	0.2	
19-May-21	01:00	E	0.2	
19-May-21 19-May-21	01:00	E	0.1	
19-May-21 19-May-21	03:00	N N	0.1	
19-May-21 19-May-21	03:00	ENE	0.1	
19-May-21	05:00	ENE	0.1	
19-May-21	06:00	ENE	0.2	
19-May-21	07:00	NNE	0.2	
19-May-21	08:00	E	0.1	
19-May-21	09:00	Ē	0.2	
19-May-21	10:00	SW	0.1	
19-May-21	11:00	Ē	0.2	
19-May-21	12:00	NE	0.1	
19-May-21	13:00	SW	0.6	
19-May-21	14:00	SE	0.2	
19-May-21	15:00	SSE	0.4	
19-May-21	16:00	Е	0.2	
19-May-21	17:00	NE	0.3	
19-May-21	18:00	ENE	0.3	
19-May-21	19:00	ESE	0.2	
19-May-21	20:00	E	0.2	
19-May-21	21:00	ENE	0.2	
19-May-21	22:00	ENE	0.2	
19-May-21	23:00	ENE	0.1	
19-May-21	00:00	ENE	0.1	
20-May-21	01:00	Е	0.1	
20-May-21	02:00	E	0.1	
20-May-21	03:00	NE	0.1	
20-May-21	04:00	ESE	0.1	
20-May-21	05:00	ENE	0.1	
20-May-21	06:00	E	0.1	
20-May-21	07:00	ENE	0.1	
20-May-21	08:00	E	0.1	
20-May-21	09:00	ESE	0.1	
20-May-21	10:00	E	0.3	
20-May-21	11:00	SSW	0.2	
20-May-21	12:00	SSE	0.1	
20-May-21	13:00	E	0.2	
20-May-21	14:00	ESE	0.6	
20-May-21	15:00	ESE ESE	0.7	
20-May-21	16:00	ESE E	0.2 0.3	
20-May-21	17:00	E ENE	0.3	
20-May-21 20-May-21	18:00 19:00	SSE	0.2	
	20:00	ESE	0.1	
20-May-21 20-May-21	20.00	ENE	0.2	
20-May-21 20-May-21	21:00	ESE	0.1	
20-May-21 20-May-21	22:00	ENE	0.1	
20-1v1ay-21	25.00	LINL	0.1	

May 2021					
Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction		
20-May-21	00:00	E	0.2		
21-May-21	01:00	ENE	0.2		
21-May-21	02:00	ENE	0.2		
21-May-21	03:00	SW	0.3		
21-May-21	04:00	SE	0.3		
21-May-21	05:00	NE	0.3		
21-May-21	06:00	ENE	0.3		
21-May-21	07:00	Е	0.3		
21-May-21	08:00	Е	0.5		
21-May-21	09:00	SE	0.6		
21-May-21	10:00	SE	0.5		
21-May-21	11:00	SE	0.3		
21-May-21	12:00	ESE	0.6		
21-May-21	13:00	ESE	0.5		
21-May-21	14:00	Е	0.5		
21-May-21	15:00	Е	0.5		
21-May-21	16:00	Е	0.5		
21-May-21	17:00	Е	0.4		
21-May-21	18:00	SSE	0.4		
21-May-21	19:00	NE	0.3		
21-May-21	20:00	Е	0.7		
21-May-21	21:00	ENE	0.3		
21-May-21	22:00	ESE	0.4		
21-May-21	23:00	SSW	0.4		
21-May-21	00:00	SSW	0.4		
22-May-21	01:00	SSW	0.4		
22-May-21	02:00	NW	0.4		
22-May-21	03:00	S	0.4		
22-May-21	04:00	W	0.4		
22-May-21	05:00	WSW	0.5		
22-May-21	06:00	W	0.5		
22-May-21	07:00	W	0.5		
22-May-21	08:00	WSW	0.8		
22-May-21	09:00	W	2.2		
22-May-21	10:00	WSW	2.6		
22-May-21	11:00	W	9.7		
22-May-21	12:00	WNW	3		
22-May-21	13:00	W	2.6		
22-May-21	14:00	SW	0.9		
22-May-21	15:00	W	0.9		
22-May-21	16:00	S	0.5		
22-May-21	17:00	WSW	0.6		
22-May-21	18:00	SSW	0.6		
22-May-21	19:00	SW	0.5		
22-May-21	20:00	SW	0.4		
22-May-21	21:00	ENE	0.4		
22-May-21	22:00	NE	0.4		
22-May-21	23:00	ENE	0.5		

May 2021			
Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction
22-May-21	00:00	Ē	0.4
23-May-21	01:00	ENE	0.5
23-May-21	02:00	NE	0.6
23-May-21	03:00	Е	0.5
23-May-21	04:00	S	0.5
23-May-21	05:00	Е	0.5
23-May-21	06:00	ENE	0.5
23-May-21	07:00	ESE	0.5
23-May-21	08:00	NE	0.6
23-May-21	09:00	Е	0.6
23-May-21	10:00	E	0.5
23-May-21	11:00	ENE	0.6
23-May-21	12:00	Е	0.8
23-May-21	13:00	ESE	0.8
23-May-21	14:00	ESE	0.5
23-May-21	15:00	Е	0.5
23-May-21	16:00	Е	0.6
23-May-21	17:00	Е	0.7
23-May-21	18:00	ENE	0.3
23-May-21	19:00	SE	0.4
23-May-21	20:00	Е	0.4
23-May-21	21:00	Е	0.4
23-May-21	22:00	E	0.4
23-May-21	23:00	NNE	0.3
23-May-21	00:00	ESE	0.3
24-May-21	01:00	ENE	0.3
24-May-21	02:00	E	0.2
24-May-21	03:00	E	0.2
24-May-21	04:00	E	0.2
24-May-21	05:00	ENE	0.2
24-May-21	06:00	E	0.2
24-May-21	07:00	ENE	0.2
24-May-21	08:00	ENE	0.1
24-May-21	09:00	SE	0.1
24-May-21	10:00	SE	0.2
24-May-21	11:00	NE	0.3
24-May-21	12:00	E	0.4
24-May-21	13:00	E	0.4
24-May-21	14:00	E	0.5
24-May-21	15:00	SE ENE	0.4
24-May-21	16:00	SSE	0.5 0.4
24-May-21 24-May-21	17:00	E SSE	0.4
	18:00 19:00	ESE	0.3
24-May-21 24-May-21	20:00	ESE ENE	
24-May-21 24-May-21	20.00	E	0.2
24-May-21 24-May-21	21:00	E E	0.2
24-May-21 24-May-21	22:00	ENE	0.2
2-7-1v1ay-21	23.00		0.2

	May 2021										
Т	Table II: Wind Speed and Directions										
Date	Time	Wind Speed m/s	Direction								
24-May-21	00:00	ESE	0.1								
24-May-21 25-May-21	01:00	ESE	0.1								
25-May-21	01:00	ENE	0.1								
25-May-21	02:00	E	0.1								
25-May-21	03:00	ENE	0.1								
25-May-21	05:00	NE	0.1								
25-May-21	06:00	ENE	0.1								
25-May-21	07:00	N	0.1								
25-May-21	08:00	SSE	0.1								
25-May-21	09:00	SE	0.1								
25-May-21	10:00	E	0.1								
25-May-21	11:00	SSE	0.1								
25-May-21	12:00	SW	0.2								
25-May-21	13:00	SW	0.2								
25-May-21	14:00	Е	0.2								
25-May-21	15:00	ENE	0.3								
25-May-21	16:00	SSE	0.5								
25-May-21	17:00	NE	0.2								
25-May-21	18:00	ESE	0.3								
25-May-21	19:00	ESE	0.4								
25-May-21	20:00	SE	0.4								
25-May-21	21:00	E	0.4								
25-May-21	22:00	Е	0.4								
25-May-21	23:00	E	0.4								
25-May-21	00:00	ENE	0.4								
26-May-21	01:00	SE	0.4								
26-May-21	02:00	Е	0.4								
26-May-21	03:00	E	0.4								
26-May-21	04:00	ENE	0.3								
26-May-21	05:00	ENE	0.3								
26-May-21	06:00	ENE	0.3								
26-May-21	07:00	NNE	0.3								
26-May-21	08:00	SE	0.1								
26-May-21	09:00	E	0.2								
26-May-21	10:00	SSE	0.3								
26-May-21	11:00	W	0.2								
26-May-21	12:00	SW	2.5								
26-May-21	13:00	SW	0.5								
26-May-21	14:00	N	0.2								
26-May-21	15:00	SE	0.4								
26-May-21	16:00	ENE	0.6								
26-May-21	17:00	NE	0.5								
26-May-21	18:00	ENE	0.5								
26-May-21	19:00	W	0.4								
26-May-21	20:00	SW	0.3								
26-May-21	21:00	SSW	0.3								
26-May-21	22:00	W	0.3								
26-May-21	23:00	WSW	0.3								

May 2021										
Table II: Wind Speed and Directions										
Date	Time	Wind Speed m/s	Direction							
26-May-21	00:00	SSW	0.3							
27-May-21	01:00	WSW	0.2							
27-May-21	02:00	SW	0.2							
27-May-21	03:00	SSE	0.2							
27-May-21	04:00	SSE	0.2							
27-May-21	05:00	NW	0.2							
27-May-21	06:00	ESE	0.2							
27-May-21	07:00	ENE	0.2							
27-May-21	08:00	ESE	0.2							
27-May-21	09:00	NE	0.1							
27-May-21	10:00	SE	0.2							
27-May-21	11:00	ENE	0.3							
27-May-21	12:00	SE	0.3							
27-May-21	13:00	WNW	0.4							
27-May-21	14:00	SW	0.5							
27-May-21	15:00	WNW	1.1							
27-May-21	16:00	WSW	0.7							
27-May-21	17:00	ESE	0.4							
27-May-21	18:00	E	0.3							
27-May-21	19:00	E	0.4							
27-May-21	20:00	ENE	0.4							
27-May-21	21:00	Е	0.4							
27-May-21	22:00	ENE	0.4							
27-May-21	23:00	NNE	0.3							
27-May-21	00:00	NNE	0.3							
28-May-21	01:00	ENE	0.3							
28-May-21	02:00	NE	0.2							
28-May-21	03:00	ENE	0.2							
28-May-21	04:00	Е	0.2							
28-May-21	05:00	Е	0.2							
28-May-21	06:00	ENE	0.2							
28-May-21	07:00	NE	0.2							
28-May-21	08:00	E	0.2							
28-May-21	09:00	ESE	0.2							
28-May-21	10:00	ENE	0.4							
28-May-21	11:00	ENE	0.2							
28-May-21	12:00	Е	0.4							
28-May-21	13:00	SSE	0.8							
28-May-21	14:00	Е	0.5							
28-May-21	15:00	W	0.6							
28-May-21	16:00	S	0.9							
28-May-21	17:00	Е	0.5							
28-May-21	18:00	E	0.6							
28-May-21	19:00	Е	0.5							
28-May-21	20:00	Е	0.5							
28-May-21	21:00	ENE	0.5							
28-May-21	22:00	Е	0.5							
28-May-21	23:00	ESE	0.4							
··		-								

May 2021										
Table II: Wind Speed and Directions										
Date	Time	Wind Speed m/s	Direction							
28-May-21	00:00	ESE	0.4							
29-May-21 29-May-21	01:00	ESE	0.4							
29-May-21 29-May-21	01:00	ENE	0.3							
29-May-21 29-May-21	03:00	ESE	0.2							
29-May-21	03:00	E	0.2							
29-May-21	05:00	ESE	0.2							
29-May-21	06:00	E	0.2							
29-May-21	07:00	SE	0.2							
29-May-21	08:00	SSE	0.2							
29-May-21	09:00	E	0.3							
29-May-21	10:00	Е	0.3							
29-May-21	11:00	SSE	0.4							
29-May-21	12:00	Е	0.4							
29-May-21	13:00	SSE	0.6							
29-May-21	14:00	SSW	0.6							
29-May-21	15:00	S	1							
29-May-21	16:00	ENE	0.4							
29-May-21	17:00	E	0.5							
29-May-21	18:00	SE	0.3							
29-May-21	19:00	SSE	0.3							
29-May-21	20:00	NE	0.2							
29-May-21	21:00	NE	0.2							
29-May-21	22:00	N	0.1							
29-May-21	23:00	N	0.1							
29-May-21	00:00	NE	0.1							
30-May-21	01:00	SE	0.1							
30-May-21	02:00	NE	0.1							
30-May-21	03:00	SSE	0.1							
30-May-21	04:00	SSW	0.2							
30-May-21	05:00	ESE	0.2							
30-May-21	06:00	NE	0.2							
30-May-21	07:00	SSE	0.3							
30-May-21	08:00	SSW	0.3							
30-May-21	09:00	S	0.3							
30-May-21	10:00	NW	0.3							
30-May-21	11:00	SW	0.3							
30-May-21	12:00	S	0.3							
30-May-21	13:00	E ENE	0.3							
30-May-21	14:00		0.2							
30-May-21	15:00 16:00	ESE NE	0.5							
30-May-21 30-May-21	17:00	ENE	0.4							
30-May-21 30-May-21	18:00	ENE	0.4							
30-May-21 30-May-21	19:00	NE	0.4							
30-May-21 30-May-21	20:00	ENE	0.4							
30-May-21 30-May-21	21:00	E	0.3							
30-May-21 30-May-21	22:00	N N	0.3							
30-May-21	23:00	E	0.3							
50-141ay-21	25.00	L	0.5							

May 2021										
Tabl	e II: Wind S	speed and Direction	5							
Date	Time	Wind Speed m/s	Direction							
30-May-21	00:00	ENE	0.3							
31-May-21	01:00	NE	0.2							
31-May-21	02:00	ENE	0.2							
31-May-21	03:00	Е	0.2							
31-May-21	04:00	Е	0.2							
31-May-21	05:00	ENE	0.2							
31-May-21	06:00	ENE	0.2							
31-May-21	07:00	Е	0.2							
31-May-21	08:00	ENE	0.1							
31-May-21	09:00	Е	0.1							
31-May-21	10:00	S	1.5							
31-May-21	11:00	SW	0.8							
31-May-21	12:00	NE	0.1							
31-May-21	13:00	SW	1							
31-May-21	14:00	SSW	1.3							
31-May-21	15:00	S	0.5							
31-May-21	16:00	W	1.6							
31-May-21	17:00	S	0.3							
31-May-21	18:00	SSW	1							
31-May-21	19:00	SSW	0.2							
31-May-21	20:00	SW	0.2							
31-May-21	21:00	SSE	0.2							
31-May-21	22:00	SSW	0.1							
31-May-21	23:00	W	0.2							
31-May-21	00:00	W	0.1							

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

#### Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area Tentative Impact Air and Noise Monitoring Schedule for May 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2-May	3-May	4-May	5-May	6-May	7-May	8-May
		1-hr TSP x 3 [AM2]				
	24-hr TSP [AM2(A)]	Noise [M3(A), M4 & M5(C)]				24-hr TSP [AM2(A)]
9-May	10-May	11-May	12-May	13-May	14-May	15-May
<i>9-141dy</i>	1-hr TSP x 3 [AM2]	11-Wiay	12-1 <b>v</b> 1ay	1.5-1v1ay	1-hr TSP x 3 [AM2]	1.5-Widy
	1-m 101 x 5 [Awi2]				1-m 101 x 5 [A012]	
	Noise [M3(A), M4 &					
	M5(C)]			24-hr TSP [AM2(A)]		
16-May	17-May	18-May	19-May	20-May	21-May	22-May
				1-hr TSP x 3 [AM2]		
				Noise [M3(A), M4 &		
23-May	24-May	<b>24-hr TSP [AM2(A)]</b> 25-May	26-May	M5(C)] 27-May	28-May	29-May
23-1v1ay	24-1v1ay	1-hr TSP x 3 [AM2]	20-1v1ay	27-1 <b>v</b> 1ay	20-1v1ay	29-1v1ay
		1-m 151 x 5 [AM2]				
		Noise [M3(A), M4 &				24-hr TSP [AM2(A)]
	24-hr TSP [AM2(A)]	M5(C)]				
30-May	31-May	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun
	1-hr TSP x 3 [AM2]				1-hr TSP x 3 [AM2]	
	Noise [M3(A), M4 &					
6-Jun	M5(C)]			24-hr TSP [AM2(A)]		
0-Jun						

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

* The noise level limit is 65dB(A) during the exam period

Air Quality Monitoring Station

#### **Noise Monitoring Station**

AM2 - Lee Kau Yan Memorial School AM2(A) - Ng Wah Catholic Secondary School M3(A) - The Bridge connecting The Latitude M4 - Lee Kau Yan Memorial School M5(C) - Mercy Grace's Home

#### Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area Tentative Impact Air and Noise Monitoring Schedule for June 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30-May	31-May	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun
	1-hr TSP x 3 [AM2] Noise [M3(A), M4 &			24-hr TSP [AM2(A)]	1-hr TSP x 3 [AM2]	
	M5(C)]					
6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun
		24-hr TSP [AM2(A)]	Noise [M3(A), M4 & M5(C)]			24-hr TSP [AM2(A)]
			1-hr TSP x 3 [AM2]			
13-Jun	14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jun
		1-hr TSP x 3 [AM2] Noise [M3(A), M4 & M5(C)]			24-hr TSP [AM2(A)]	
20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun
	1-hr TSP x 3 [AM2] Noise [M3(A), M4 & M5(C)]			24-hr TSP [AM2(A)]	1-hr TSP x 3 [AM2]	
27-Jun	28-Jun	29-Jun	30-Jun	1-Jul	2-Jul	3-Jul
4-Jul		24-hr TSP [AM2(A)]	1-hr TSP x 3 [AM2] Noise [M3(A), M4 & M5(C)]			

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

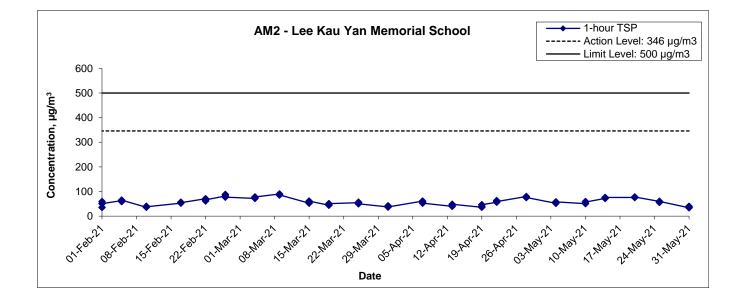
* The noise level limit is 65dB(A) during the exam period

**Air Quality Monitoring Station** 

#### **Noise Monitoring Station**

AM2 - Lee Kau Yan Memorial School AM2(A) - Ng Wah Catholic Secondary School M3(A) - The Bridge connecting The Latitude M4 - Lee Kau Yan Memorial School M5(C) - Mercy Grace's Home

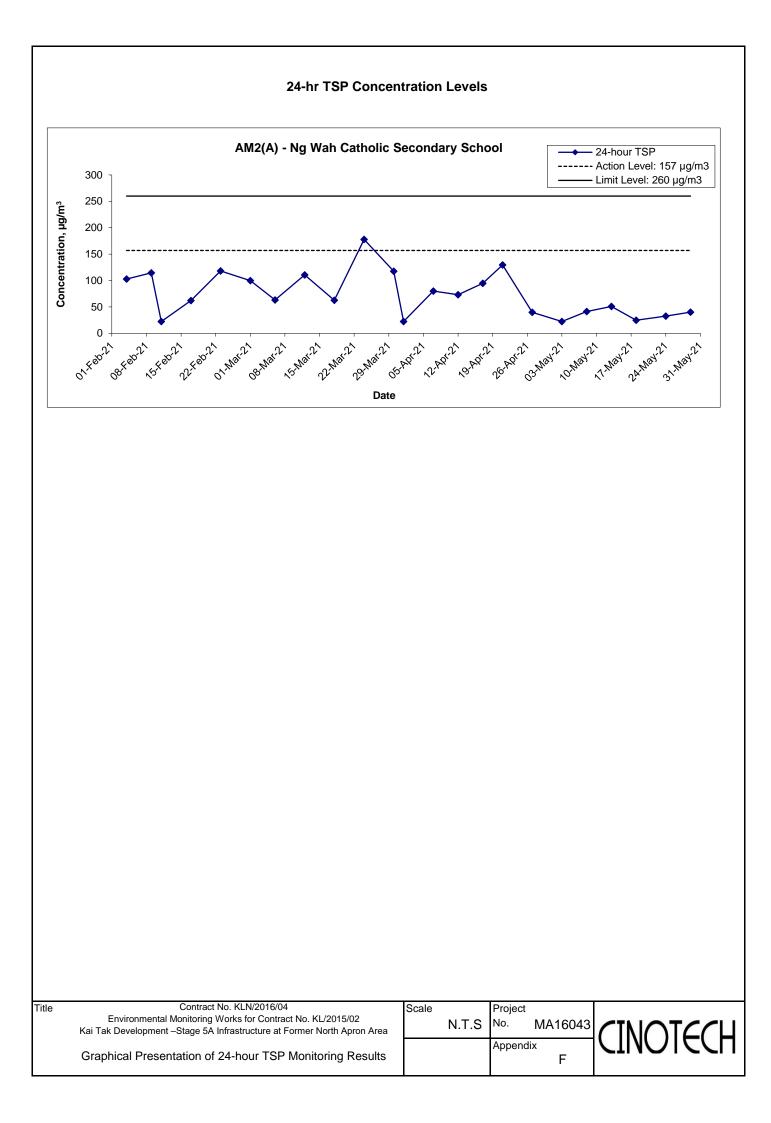
APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION



# Appendix E - 1-hour TSP Monitoring Results

Location AM2 -	Lee Kau Ya	n Memorial S	School
Date	Time	Weather	Particulate Concentration (µg/m3)
4-May-21	10:00	Sunny	52
4-May-21	10:00	Sunny	56
4-May-21	10:00	Sunny	58
10-May-21	13:00	Sunny	51
10-May-21	13:00	Sunny	59
10-May-21	13:00	Sunny	57
14-May-21	10:00	Sunny	72
14-May-21	10:00	Sunny	74
14-May-21	10:00	Sunny	76
20-May-21	9:00	Sunny	76
20-May-21	9:00	Sunny	76
20-May-21	9:00	Sunny	78
25-May-21	10:00	Sunny	60
25-May-21	10:00	Sunny	56
25-May-21	10:00	Sunny	60
31-May-21	9:00	Sunny	34
31-May-21	9:00	Sunny	36
31-May-21	9:00	Sunny	40
		Average	59
		Maximum	78
		Minimum	34

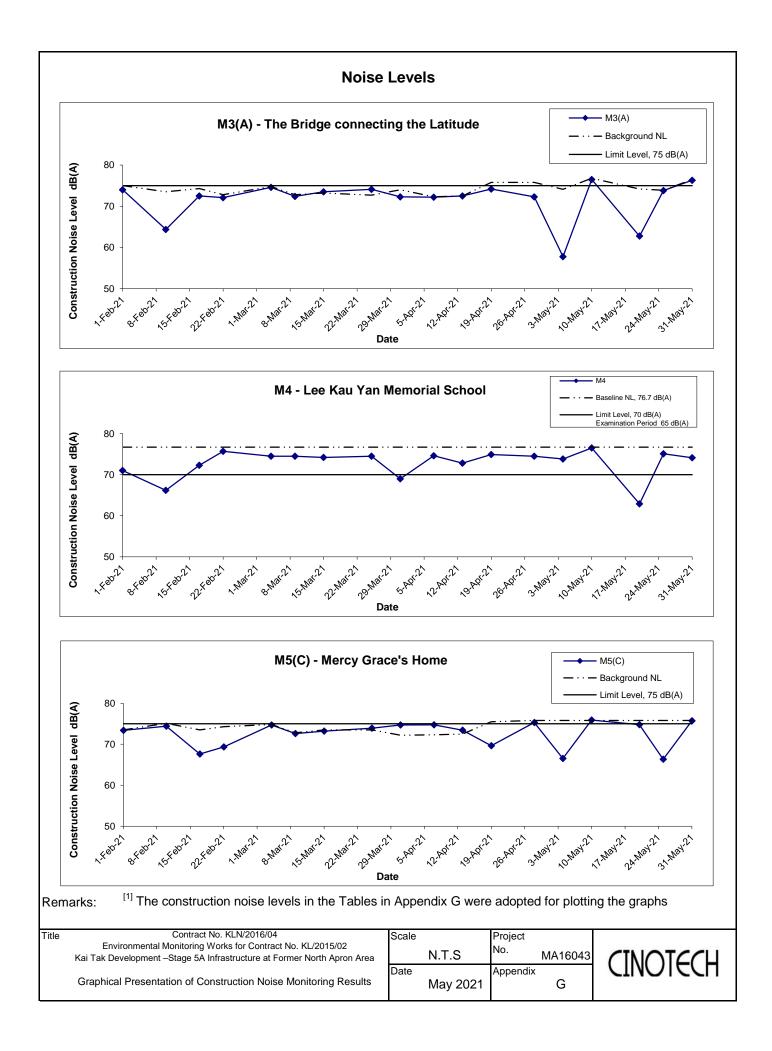
APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION



# Appendix F - 24-hour TSP Monitoring Results

Start Date	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m3/min)	(m3)	(µg/m3)
3-May-21	Sunny	298.5	759.1	2.7163	2.8369	0.0389	7348.71	7372.7	24.0	1.21	1.20	1.20	1732.7	22
8-May-21	Sunny	301.0	757.3	3.6903	3.7618	0.0714	7372.7	7396.7	24.0	1.20	1.20	1.20	1724.7	41
13-May-21	Sunny	302.8	756.8	3.7349	3.8225	0.0876	7396.7	7420.7	24.0	1.19	1.19	1.19	1720.0	51
18-May-21	Sunny	303.3	756.7	3.7398	3.7828	0.0430	7420.7	7444.7	24.0	1.19	1.19	1.19	1718.2	25
24-May-21	Sunny	302.3	757.7	3.6940	3.7502	0.0562	7444.7	7468.7	24.0	1.20	1.20	1.20	1722.1	33
29-May-21	Sunny	302.3	757.7	3.6261	3.6954	0.0692	7444.7	7468.7	24.0	1.20	1.20	1.20	1722.1	40
													Min	22
													Max	51

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION



### Appendix G - Noise Monitoring Results

Location M3(A) - The Bridge connecting The Latitude									
				Unit: dB (A) (30-min)					
Date	Time	Weather	Mea	sured Noise L	_evel	Background Noise	Co	nstruction Noise Level	
			L _{eq}	L ₁₀	L ₉₀	L _{eq}		L _{eq}	
4-May-21	13:00	Sunny	74	76	73	74	58		
10-May-21	11:30	Sunny	77	79	73	77	77	Measured ≦ Background	
20-May-21	13:00	Sunny	75	76	72	74	63		
25-May-21	13:00	Sunny	74	75	73	74	74	Measured ≦ Background	
31-May-21	13:00	Sunny	76	78	74	77	76	Measured ≦ Background	

Location M4 - Lee Kau Yan Memorial School								
			Unit: dB (A) (30-min)					
Date	Time	Weather	Mea	sured Noise I	Level	Baseline Level	Со	nstruction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}		L _{eq}
4-May-21	10:00	Sunny	74	75	72		74	Measured ≦ Baseline
10-May-21	13:00	Sunny	77	80	73		77	Measured ≦ Baseline
20-May-21	11:00	Sunny	63	63	61	77	63	Measured ≦ Baseline
25-May-21	10:00	Sunny	75	77	73		75	Measured ≦ Baseline
31-May-21	10:00	Sunny	74	77	71		74	Measured ≦ Baseline

Location M5(C) - Mercy Grace's Home								
			Unit: dB (A) (30-min)					
Date	Time	Weather	Mea	sured Noise L	evel	Background Noise	Co	nstruction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}		L _{eq}
4-May-21	15:00	Sunny	75	76	73	74	67	
10-May-21	15:00	Sunny	76	79	73	77	76	Measured $\leq$ Background
20-May-21	16:25	Sunny	78	80	74	74	75	
25-May-21	15:00	Sunny	75	76	73	74	66	
31-May-21	15:00	Sunny	76	77	74	77	76	Measured ≦ Background

*All data has been presented to the nearest integer

APPENDIX H SUMMARY OF EXCEEDANCE

### **Appendix H – Summary of Exceedance**

Exceedance Record for Contract No. KL/2015/02

- (A) Exceedance Record for Air Quality (NIL in the reporting month)
- (B) Exceedance Record for Construction Noise (NIL in the reporting month)
- (C) Exceedance Record for Landscape and Visual (NIL in the reporting month)

APPENDIX I SITE AUDIT SUMMARY

Checklist Reference Number	210503
Date	03 May 2021
Time	14:00 - 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Following up on the previous site inspection (210426): All the items in the previous inspection were rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Sam Au	VAJ Z	3 May 2021
Checked by	Colman Wong	Colman	3 May 2021

Checklist Reference Number	210512
Date	12 May 2021
Time	14:00 - 15:00

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	<b>Related Item No.</b>
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Following up on the previous site inspection (210503): All the items in the previous inspection were rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Sam Au	VAJ Z	12 May 2021
Checked by	Colman Wong	Colman	12 May 2021

Checklist Reference Number	210520
Date	20 May 2021
Time	14:00 - 15:00

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	<b>Related Item No.</b>
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Following up on the previous site inspection (210512): All the items in the previous inspection were rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Sam Au	VAJ Z	20 May 2021
Checked by	Colman Wong	Colman	20 May 2021

Checklist Reference Number	210524
Date	24 May 2021
Time	14:00 - 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Following up on the previous site inspection (210520): All the items in the previous inspection were rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Sam Au	VAJ Z	24 May 2021
Checked by	Colman Wong	Colman	24 May 2021

Checklist Reference Number	210531
Date	31 May 2021
Time	14:00 - 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Following up on the previous site inspection (210524): All the items in the previous inspection were rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Sam Au	VAJ Z	31 May 2021
Checked by	Colman Wong	Colman	31 May 2021

APPENDIX J EVENT ACTION PLANS

Event/Action Plan for Air Quality

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

	EPD, IEC and ER informed of	4. Advise the ER on the	implemented;	working days of notification;
	the results.	effectiveness of the proposed	4. Supervise implementation of	4. Implement the agreed proposals.
		remedial measures.	remedial measures;	
			5. Conduct meeting with ET and	
			IEC if exceedance continues.	
Limit Level being	1. Notify IEC, ER, Contractor and	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Take immediate action to avoid
exceeded by	EPD;	by ET;	of exceedance in writing;	further exceedance;
two or more	2. Repeat measurement to confirm	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET, ER and IEC on
consecutive	findings;	method;	3. In consolidation with the IEC,	proper remedial actions;
sampling	3. Carry out analysis of Contractor's	3. Discuss amongst ER, ET, and	agree with the Contractor on the	3. Submit proposals for remedial
	working procedures to identify source and	Contractor on the potential remedial	remedial measures to be	actions to IEC within three working
	investigate the causes of exceedance;	actions;	implemented;	days of notification;
	4. Increase monitoring frequency to	4. Review Contractor's remedial	4. Supervise implementation of	4. Implement the agreed proposals;
	daily;	actions whenever necessary to	remedial measures;	5. Submit further remedial actions if
	5. Arrange meeting with IEC, ER	assure their effectiveness and	5. If exceedance continues,	problem still not under control;
	and Contractor to discuss the	advise the ER accordingly.	consider stopping the Contractor	6. Stop the relevant portion of works
	remedial actions to be taken;		to continue working on that	as instructed by the ER until the
	6. Assess effectiveness of		portion of work which causes the	exceedance is abated.
	Contractor's remedial actions and		exceedance until the	
	keep EPD, IEC and ER informed		exceedance is abated.	
	of the results;			
	7. If exceedance stops, cease additional			
	monitoring.			

Event/Action Plan for Construction Noise

EVENT	ACTION					
	ET	IEC	ER	CONTRACTOR		
Action Level	1. Notify ER, IEC and Contractor;	1. Review the investigation	1. Confirm receipt of	1. Submit noise mitigation		
being	2. Carry out investigation;	results submitted by the ET;	notification of failure in	proposals to IEC and ER;		
exceeded	3. Report the results of investigation	2. Review the proposed remedial	writing;	2. Implement noise mitigation		
	to the IEC, ER and Contractor;	measures by the Contractor and	2. Notify Contractor;	proposals.		
	4. Discuss with the IEC and	advise the ER accordingly;	3. In consolidation with the	(The above actions should be		
	Contractor on remedial measures	3. Advise the ER on the	IEC, agree with the	taken within 2 working days after		
	required;	effectiveness of the proposed	Contractor on the remedial	the exceedance is identified)		
	5. Increase monitoring frequency to	remedial measures.	measures to be implemented;			
	check mitigation effectiveness.	(The above actions should be	4. Supervise the			
	(The above actions should be taken	taken within 2 working days after	implementation of remedial			
	within 2 working days after the	the exceedance is identified)	measures.			
	exceedance is identified)		(The above actions should be			
			taken within 2 working days			
			after the exceedance is			
			identified)			
Limit Level	1. Inform IEC, ER, Contractor and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to		
being	EPD;	Contractor on the potential	notification of failure in	avoid further exceedance;		
exceeded	2. Repeat measurements to confirm	remedial actions;	writing;	2. Submit proposals for remedial		
	findings;	2. Review Contractor's remedial	2. Notify Contractor;	actions to IEC and ER within 3		
	3. Increase monitoring frequency;	actions whenever necessary to	3. In consolidation with the	working days of notification;		
	4. Identify source and investigate the	assure their effectiveness and	IEC, agree with the	3. Implement the agreed		
	cause of exceedance;	advise the ER accordingly.	Contractor on the remedial	proposals;		

5. Carry out analysis of Contractor's	(The above actions should be	measures to be implemented;	4. Submit further proposal if
working procedures;	taken within 2 working days after	4. Supervise the	problem still not under control;
6. Discuss with the IEC, Contractor	the exceedance is identified)	implementation of remedial	5. Stop the relevant portion of
and ER on remedial measures		measures;	works as instructed by the ER
required;		5. If exceedance continues,	until the exceedance is abated.
7. Assess effectiveness of		consider stopping the	(The above actions should be
Contractor's remedial actions and		Contractor to continue	taken within 2 working days after
keep IEC, EPD and ER informed of		working on that portion of	the exceedance is identified)
the results;		work which causes the	
8. If exceedance stops, cease		exceedance until the	
additional monitoring.		exceedance is abated.	
(The above actions should be taken		(The above actions should be	
within 2 working days after the		taken within 2 working days	
exceedance is identified)		after the exceedance is	
		identified)	

Event/Action Plan for Landscape and Visual

EVENT			ACTION	
ACTION LEVEL	ET	IEC	ER	CONTRACTOR
Design Check	<ol> <li>Check final design conforms to the requirements of EP and prepare report.</li> </ol>	<ol> <li>Check report.</li> <li>Recommend remedial design if necessary</li> </ol>	1. Undertake remedial design if necessary	
Non-conformity on one occasion	<ol> <li>Identify Source</li> <li>Inform IEC and ER</li> <li>Discuss remedial actions with IEC, 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 ER on effectiveness of proposed remedial measures.</li> <li>Check implementation of remedial measures.</li> </ol>	<ol> <li>Notify Contractor</li> <li>Ensure remedial measures are properly implemented</li> </ol>	<ol> <li>Amend working methods</li> <li>Rectify damage and undertake any necessary replacement</li> </ol>
Repeated Non-conformity	1. Identify Source Inform IEC and	1. Check monitoring report	<ol> <li>Notify Contractor</li> <li>Ensure remedial measures are properly</li> </ol>	<ol> <li>Amend working methods</li> <li>Rectify damage and</li> </ol>

ER	2. Check Contractor's	implemented	undertake any necessary
2. Increase	working method		replacement
monitoring	3. Discuss with ET and		
frequency	Contractor on possible		
3. Discuss remedial	remedial measures		
actions with IEC,	4. Advise ER on		
ER and Contractor	effectiveness of		
4. Monitor remedial	proposed remedial		
actions until	measures		
rectification has	5. Supervise		
been completed	implementation of		
5. If non-conformity	remedial measures.		
stops, cease			
additional			
monitoring			

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	Recommended Mitigation Measures	Implementation
EIA KU.		Status
Construct	tion Air Quality	
S6.5	8 times daily watering of the work site with active dust emitting activities.	۸
S6.8	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation	٨
	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	٨
	reduce dust emission.	
	• Misting for the dusty material should be carried out before being loaded into the vehicle. Any vehicle with an open load carrying area should	٨
	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	٨
	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	٨
	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	٨
	insider the site. Onsite unpaved roads should be compacted and kept free of lose materials.	
	• Vehicle washing facilities should be provided at every vehicle exit point.	٨
	• 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	٨
	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	٨
	surface wet.	
	• Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the	٨
	three sides.	
	• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.	٨

S6.8	•	DWFI compound for JVBC:	N/A
		A DWFI compound is proposed at the downstream of JVC to contain pollution in drainage systems entering the KTAC and KTTS by	
		interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the	
		compounds to prevent any accumulation of sediment within the downstream section of JVBC and hence fully mitigate the potential odour	
		emissions from the headspace of JVBC near the existing discharge locations. The odour generating operations within the proposed desilting	
		compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before discharge to the	
		atmosphere.	
	•	Desilting compound for KTN:	N/A
		Two desilting compounds are proposed for KTN (at Site 1D6 and Site 1P1) to contain pollution in drainage systems entering the KTAC and	
		KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the	
		compounds to prevent any accumulation of sediment within the downstream section of KTN and hence fully mitigate the potential odour	
		emissions from the headspace of KTN near the existing discharge locations. The odour generating operations within the proposed desilting	
		compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before discharge to the	
		atmosphere.	
	•	Decking or reconstruction of KTN within apron area:	N/A
		It is proposed to deck the KTN or reconstruct the KTN within the former Apron area into Kai Tak River from the south of Road D1 to the	
		north of Road D2 along the existing alignment of KTN. The Kai Tak River will compose of a number of channels flowing with nonodorous	
		fresh water and THEES effluent. The channel flowing with THEES effluent will be designed with the width of water surface of not more	
		than 16m.	
	•	Localised maintenance dredging:	N/A
		Localised maintenance dredging should be conducted to provide water depth of not less than 3.5m over the whole of KTAC and KTTS. With	
		reference to the water depth data recorded during the odour survey, only some of the areas in the northern part of KTAC (i.e. to the north of	
		taxiway bridge) including the area near the northern edge of KTAC, the area near western bank of KTAC, and the area near the JVC	
		discharge have water depths shallower than 3.5m. The area involved would be about 40% of the northern KTAC and the dredging depth	
		required would be from about 2.7m to less than 1m. The maintenance dredging to be carried out prior to the occupation of any new	
		development in the immediate vicinity of KTAC to avoid potential localized odour impacts at the future ASRs during the maintenance	

	dredging operation.	
	Improvement of water circulation in KTAC and KTTS:	N/A
	600m gap opening at the northern part of the former Kai Tak runway, the water circulation in KTAC and KTTS would be substantially	
	improved. Together with the improvement in water circulation, the DO level in KTAC and KTTS would also be increased.	
	<u>In-situ sediment treatment by bioremediation:</u>	
	Bioremediation would be applied to the entire KTAC and KTTS.	N/A
Constru	ction Noise	
S7.8	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar	٨
	Bender, Concrete Pump, Generator and Water Pump.	
S7.9	Good Site Practice:	
	• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	۸
	• Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.	٨
	• 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 use should be shut down between works periods or should be throttled down	۸
	to a minimum.	۸
	• Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the	
	nearby NSRs.	۸
	• Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction	
	activities.	۸
S7.9	Scheduling of Construction Works during School Examination Period	٨
S7.8	(i) Provision of low noise surfacing in a section of Road L2; and	N/A
	(ii) Provision of structural fins	N/A
S7.8	(i) Avoid the sensitive façade of class room facing Road L2 and L4; and	N/A
	(ii) Provision of low noise surfacing in a section of Road L2 & L4	N/A

S7.8	(i)	Provision of low noise surfacing in a section of Road L4 before occupation of Site 111; and	N/A
	(ii)	Setback of building about 5m from site boundary.	N/A
S7.8	Setbac	k of building about 35m to the northwest direction at 1L3 and 5m at Site 1L2.	N/A
S7.8	(i)	avoid any sensitive façades with openable window facing the existing Kowloon City Road network; and Avoid the sensitive façade of	N/A
		class room facing Road L2 and L4; and	
	(ii)	for the sensitive facades facing the To Kwa Wan direction, either setback the facades by about 5m to the northeast direction or do not	N/A
		provide the facades with openable window.	
S7.8	(i)	avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or	N/A
	(ii)	provision of 17.5m high noise tolerant building fronting To Kwa Wan Road and restrict the height of the residential block(s) located at	N/A
		less than 55m away from To Kwa Wan Road to no more than 25m above ground	
S7.8	(i)	avoid any sensitive facades with openable window facing the slip road connecting Prince Edward Road East and San Po Kong or other	٨
		alternative mitigation measures and at-source mitigation measures for the surrounding new local roads to minimise the potential traffic	
		noise impacts from the slip road	
S7.8	All the	ventilation fans installed in the below will be provided with silencers or acoustics treatment.	
	(i)	SPS	N/A
	(ii)	ESS	N/A
	(iii)	Tunnel Ventilation Shaft	N/A
	(iv)	EFTS depot	N/A
S7.8	Installa	ation of retractable roof or other equivalent measures	N/A
Constru	ction Wa	ter Quality	
S8.8	The fo	llowing mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including:	
	•	Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply;	N/A
	•	Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps;	N/A
	•	An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and	
	•	For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided	N/A
		so that swift actions could be taken in case of malfunction of unmanned facilities	N/A

S8.8	Construction Phase	
	Marine-based Construction	
	Capital and Maintenance Dredging for Cruise Terminal	
	Mitigation measures for construction of the proposed cruise terminal should follow those recommended in the approved EIA for CT Dredging.	N/A
S8.8	Fireboat Berth, Runway Opening and Road T2	
	Silt curtains should be deployed around the close grab dredger to minimize release of sediment and other contaminants for any dredging and filling	N/A
	activities in open water.	
S8.8	Dredging at and near the seawall area for construction of the public landing steps cum fireboat berth should be carried out at a maximum production	N/A
	rate of 1,000m ³ per day using one grab dredger.	
S8.8	The proposed construction method for runway opening should adopt an approach where the existing seawall at the runway will not be removed until	N/A
	completion of all excavation and dredging works for demolition of the runway. Thus, excavation of bulk fill and majority of the dredging works will	
	be carried out behind the existing seawall, and the sediment plume can be effectively contained within the works area. As there is likely some	
	accumulation of sediments alongside the runway, there will be a need to dredge the existing seabed after completion of all the demolition works.	
	Dredging alongside the 600m opening should be carried out at a maximum production rate of 2,000m ³ per day using one grab dredger.	
8.8	Dredging for Road T2 should be conducted at a maximum rate of 8,000m ³ per day (using four grab dredgers) whereas the sand filling should be	N/A
	conducted at a maximum rate of 2,000m3 per day (using two grab dredgers).	
8.8	Silt screens shall be applied to seawater intakes at WSD seawater intake.	N/A

		1
S8.8	Land-based Construction	
	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:	
	• use of sediment traps	٨
	adequate maintenance of drainage systems to prevent flooding and overflow	۸
S8.8	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed	۸
	earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of	
	earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely,	
	exposed slope surfaces should be covered by tarpaulin or other means.	
S8.8	Construction site should be provided with adequately designed perimeter channel and pre-treatment facilities and proper maintenance. The	۸
	boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches	
	should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should	
	incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the	
	guidelines in Appendix A1 of ProPECC PN 1/94.	
S8.8	Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m ³ capacity, are recommended as a	٨
	general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle	
	multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	
S8.8	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m ³ should be covered with tarpaulin or	۸
	similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any	
	drainage system.	
S8.8	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction	٨
	materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.	
S8.8	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to	٨
	be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty	

	surface runoff during storm events.	
S8.8	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water	N/A(1)
	drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	
S8.8	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on	٨
	roads. An adequately designed and located wheel washing bay should be provided at every site exit, and wash-water should have sand and silt	
	settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and	
	exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking	
	of soil and silty water to public roads and drains.	
S8.8	Drainage	
	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps	٨
	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	
S8.8	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled	۸
	release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all	
	times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction	
	work has finished or the temporary diversion is no longer required.	
S8.8	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the	۸
	storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ.	
S8.8	Sewage Effluent	
	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The	۸
	construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers	
	of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The	
	Contractor should also be responsible for waste disposal and maintenance practices.	

Stormuster Discharges	
Stormwater Discharges	
	٨
Debris and Litter	
In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of	٨
contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur	
Construction Works at or in Close Proximity of Storm Culvert or Seafront	
The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	٨
The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm	٨
culvert / nullah.	
Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be	٨
located well away from any water courses during carrying out of the construction works	
Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.	٨
Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers.	٨
Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	٨
Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts.	٨
Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	
Construction effluent, site run-off and sewage should be properly collected and/or treated.	٨
Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at	N/A
bottom and properly supported props to prevent adverse impact on the storm water quality.	
Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of	N/A
construction materials.	
Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	N/A
	contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur         Construction Works at or in Close Proximity of Storm Culvert or Seafront         The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.         The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm         culvert / nullah.         Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works         Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.         Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.         Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts.         Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.         Construction effluent, site run-off and sewage should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.         Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to a

S8.8	Supervisory staff should be assigned to station on site to closely supervise and monitor the works	٨
S8.8	Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	N/A
Constru	uction Waste Management	
S9.5	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 the dredging activities include:	
	• Nomination of an approved person, such as a site manager, be responsible for good site practices, arrangements for collection and effective	٨
	disposal to an appropriate facility, of all wastes generated at the site.	
	• Training of site personnel in proper waste management and chemical waste handling procedures.	۸
	Provision of sufficient waste disposal points and regular collection for disposal.	٨
	• Appropriate measure to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting	٨
	wastes in enclosed containers.	
	• A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).	٨
S9.5	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:	
	• Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals	۸
	• Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and	۸
	their proper disposal	
	• Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated	۸
	from other general refuse generated by the work force	
	Any unused chemicals or those with remaining functional capacity should be recycled	٨
	• Proper storage and site practices to minimise the potential for damage or contamination of construction materials	٨

S9.5	Dredged Marine Sediment	
	The basic requirements and procedures for dredged mud disposal are specified under the ETWB TCW No. 34/2002. The management of the	N/A
	dredging, use and disposal of marine mud is monitored by the MFC, while the licensing of marine dumping is required under the Dumping at Sea	
	Ordinance and is the responsibility of the Director of Environmental Protection (DEP)	
S9.5	The dredged marine sediments would be loaded onto barges and transported to the designated disposal sites allocated by the MFC depending on	N/A
	their level of contamination. Sediment classified as Category L would be suitable for Type 1 - Open Sea Disposal. Contaminated sediment would	
	require either Type 1 - Open Sea Disposal (Dedicated Sites), Type 2 - Confined Marine Disposal, or Type 3 - Special Treatment / Disposal and must	
	be dredged and transported with great care in accordance with ETWB TCW No. 34/2002. Subject to the final allocation of the disposal sites by	
	MFC, the dredged contaminated sediment must be effectively isolated from the environment and disposed properly at the designated disposal site	
S9.5	It will be the responsibility of the contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged	
	have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report	
	to the DEP, prior to the dredging contract being tendered. The contractor for the dredging works should apply for allocation of marine disposal sites	
	and all necessary permits from relevant authorities for the disposal of dredged sediment. During transportation and disposal of the dredged marine	
	sediments requiring Type 1, Type 2, or Type 3 disposal, the following measures should be taken to minimise potential impacts on water quality:	
	• Bottom opening of barges should be fitted with tight fitting seals to prevent leakage of material. Excess material should be cleaned from the	
	decks and exposed fittings of barges and hopper dredgers before the vessel is moved	N/A
	• Monitoring of the barge loading should be conducted to ensure that loss of material does not take place during transportation. Transport	
	barges or vessels should be equipped with automatic selfmonitoring devices as required under the Dumping at Sea Ordinance and as	N/A
	specified by the DEP	
	• Barges or hopper barges should not be filled to a level that would cause the overflow of materials or sediment laden water during loading or	
	transportation	N/A
S9.5	Construction and Demolition Material	
	Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling	
	and transportation of C&D material. The mitigation measures include:	
	• Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the	٨

		1
	transient stockpiles should be located away from waterfront or storm drains as far as possible	
	• Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric	٨
	• Skip hoist for material transport should be totally enclosed by impervious sheeting	۸
	• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site	۸
	• 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	۸
	concrete, bituminous materials or hardcores	
	• The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure	۸
	dust materials do not leak from the vehicle	
	• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials	٨
	wet	
	• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation	٨
	from unloading	
	When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less	٨
	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.	
S9.5	Chemical Waste	
	After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on	٨
	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	

S9.5	General I	Refuse	
	the contra	refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by actor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed red area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing	^
	or leachin		
Construc	tion Land		
S13.9	CM1	All existing trees should be carefully protected during construction.	^
	CM2	Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to	Λ
		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.	
	CM3	Control of night-time lighting.	N/A(1)
	CM4	Erection of decorative screen hoarding.	۸

#### Remarks:

^	Compliance of mitigation measure
*	Recommendations were made during site audits but improved/rectified by the Contractor
#	Recommendations were made during site audits but has not yet been improved/rectified by the Contractor
•	Non-compliance but rectified by the Contractor
X	Non-compliance of mitigation measure
N/A	Not Applicable at this stage
N/A(1)	Not observed

APPENDIX L SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

#### Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

EPD Complaint Ref No.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
17-34438	Dakota Drive and Olympic Avenue	23 October 2017	The complainant concerned about the dust emission when vehicle running on the dry surface outside Dakota Drive and Olympic Avenue. In addition, vehicles were not clear enough before leaving the construction site.	<ul> <li>In accordance with the information gathered in the investigation, construction activities were conducted with proper mitigation measures to minimize the dust impact arise from the construction site to the vicinity of this Project.</li> <li>Regular water spraying was provided to haul roads and unpaved areas within the site areas to reduce the dust impact arise from the construction site to the vicinity of this Project. The Contractor had also ensured vehicles and plants were wheel washed to be cleaned of mud and debris before leaving the construction site area. Therefore, the complaint is considered as non-project related.</li> <li>The following recommendations were made to further enhance the mitigation measures:</li> <li>Where practicable, to provide sheltered area on the top and three sides for stockpiles of dusty materials, or perform frequent water spraying so as to maintain the entire surface wet;</li> <li>Frequent checking and repair the gaps or broken tarpaulin sheets; and</li> <li>To provide a hard-surfaced road between any cleaning facility and the public Road</li> </ul>	Closed

**Complaint Log** 

**Remarks**: No complaint was received in the reporting month.

#### Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

# Log Ref.Received DateDetails of Warning / Summons and Successful ProsecutionsInvestigation/Mitigation ActionStatusN/AN/AN/AN/AN/A

Warnings / Summons and Successful Prosecutions received

Remarks: No warning/summon and prosecution was received in the reporting month.

APPENDIX M SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Department:	CEDD
Contract No.:	KL/2015/02
Project :	Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



#### Monthly Summary Waste Flow Table for 2021

	As at 1 Jun 2021											
Month	Quantities of Inert C & D Materials Generated Monthly							Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse	
	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)	
Jan	0	0	0	0	0	0	0	0	0	0	0.07	
Feb	0	0	0	0	0	0	0	0	0	0	0.021	
Mar	0	0	0	0	0	0	0	0	0	0	0.014	
Apr	1.692	0	0	0	1.692	0	0	0	0	0	0.112	
May June	0	0	0	0	0	0	0	0	0	0	0.042	
Sub-total	66.537	0	0	0.406	66.537	0	0	0	0	0	2.485	
July												
Aug												
Sept												
Oct												
Nov												
Dec												
Total	66.537	0	0	0.406	66.537	0	0	0	0	0	2.485	

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
67	0	0	1	67	0	0	0	0	0	2.5

Notes: (1) The performance targets are given in PS clause 6(14).

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

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

(4) The Contractor shall also submit the latest forcast of the total amount of C&D materials exected to be generated from the Works, together with a

braskdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or excreeding 50,00 m³. (PS Cleuse 25.02A(7) refers).

APPENDIX N CONSTRUCTION PROGRAMME

#### KL/2015/02 Construction Programme

•									
			2016	2017	2018	2019	2020	2021	2022
Works	Commence	Finish	9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12 1	2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
Subways Construction	Dec-16	Jun-22							
Road Works (D1 and L7)	Feb-19	Jun-21	_						
Landscape	May-21	Aug-21							

#### FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com



Appendix C

Monthly EM&A Report For Contract No. ED/2018/01 Kai Tak Development – Stage 4 infrastructure at the former runway and south apron

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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

May 2021

(Version 1.0)

Certified By:	pm.
	(Environmental Team Leader)

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#### Ref.: CEDKTDS4EM00_0_0157L.21

10 June 2021

By Post and Email

AECOM Asia Company Limited 8/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 May 2021

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for May 2021 (Version 1.0) certified by the ET Leader and provided to us via email on 10 June 2021.

Please be informed that we have no adverse comment on the captioned submission. We hereby verify the captioned submission in accordance with Condition 3.3 of EP-337/2009 and Condition 3.2 of EP-445/2013/A.

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

C.C.

Y H Hui Independent Environmental Checker

CEDD
Ka Shing
Penta-Ocean

----

Attn.: Mr. Ronald Siu Attn.: Mr. Chan Pang Attn.: Mr. Daniel Ho Fax: 2739 0076 By email Fax: 2572 4080

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### **EXECUTIVE SUMMARY**

1. This is the 17th Monthly Environmental Monitoring & Audit (EM&A) report which summaries the findings of the EM&A Programme during the reporting period from 1 to 31 May 2021.

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

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

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

Table I Non-compliance Record in the Reporting Month

#### Complaint log

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

Date of complaint received	Date of complaint	Description of complaint	Investigation / Recommendations / Action take	Close-out date / Status
No complaint	NA	NA	NA	NA

Table II Summary of complaints in the Reporting Month

Date of complaint received	Date of complaint	Description of complaint	Investigation / Recommendations / Action take	Close-out date / Status
was received in the reporting month.				

#### Notifications of summons and successful prosecutions

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

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

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

#### **Report changes**

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

#### Key construction works in the reporting month

- 9. Major construction activities undertake during the reporting month included:
  - North Approach Ramp Construction of wall, intermediate slab and column
  - Bridge D3 Construction of pile cap and pier
  - North Depressed Road Construction of wall & top slab / dismantling of wailing & strut of cofferdam
  - Underpass Excavation, construction of base slab and backfilling, Construction of wall & top slab
  - South Approach Ramp Installation of sheet pile and excavation, construction of base slab and erection of formwork
  - Landscaped Deck Construction of bored piles
  - District Cooling System seawater intake box culvert Construction of cofferdam and box structure
  - Noise barrier Installation of steel structure and PMMA panel, backfilling of haul road
  - Lift 3 Construction of cofferdam for footing
  - Lift 4 Excavation for footing
  - South Depressed Road Excavation and Installation of Lateral Support works

#### **Future key issues**

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

Table IV	Summary	of	<i>future key</i>	issues and	potential im	pact in the coming	g month

Tuble IV Summary of Julie Key issues and potential impact in the conting month					
Future key issues in the coming month	Potential impact				
North Approach Ramp – Construction of wall, intermediate slab and column	Noise and Air Quality				
Bridge D3 – Construction of pile cap and pier	Noise and Air Quality				
North Depressed Road – Construction of wall & top slab / dismantling of wailing & strut of cofferdam and removal of sheet pile	Noise and Air Quality				
Underpass – Excavation, construction of base slab and backfilling, Construction of wall & top slab	Noise and Air Quality				
South Approach Ramp – Installation of sheet pile and excavation	Noise and Air Quality				
Landscaped Deck – Construction of bored piles	Noise and Air Quality				
District Cooling System seawater intake box culvert – Construction of cofferdam and box structure	Noise and Air Quality				
Noise barrier – Installation of steel structure and PMMA panel	Noise and Air Quality				
Lift 3 – Construction of cofferdam for footing	Noise and Air Quality				
Lift 4 – Excavation for footing	Noise and Air Quality				

Future key issues in the coming month	Potential impact
South Depressed Road – Excavation and Installation of Lateral Support works	Noise and Air Quality

### **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 Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.
- 1.4 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, EP-445/2013 and Variation to the EP (VEP) No. EP-445/2013/A.
- 1.5 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**

1.6 The project organization chart and with respect to the EM&A programme is shown in Appendix A. Information of key personnel contact names and telephone numbers are summarized in Table 1.1.

Party	Role	Contact Person	Position	Phone No.	Fax No.
Civil Engineering and Prov	Project	Mr. Ronald Siu	Senior Engineer	3579 2452	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. Lulu Mar	Environmental Officer	6845 0626	3465 8898

<i>Table 1.1</i>	Contact	In	formation	0	f Key	Personnel

#### Works Area and Construction Programme

1.7 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

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

	<u></u>			
North Approach Ramp – Construction of wall, intermediate slab and column	Bridge D3 – Construction of pile cap and pier			
North Depressed Road – Construction of wall & top slab / dismantling of wailing & strut of cofferdam	Underpass – Excavation, construction of base slab and backfilling, Construction of wall & top slab			
South Approach Ramp – Installation of sheet pile and excavation, construction of base slab and erection of formwork	Landscaped Deck – Construction of bored piles			
District Cooling System seawater intake box culvert – Construction of cofferdam and box structure	Noise barrier – Installation of steel structure and PMMA panel, backfilling of haul road			
Lift 3 – Construction of cofferdam for footing	Lift 4 – Excavation for footing			
South Depressed Road – Excavation and Installation of Lateral Support works				

Table 1.2 Major activities of the Project during reporting month

#### Submission Status under the Environmental Permits

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

EP Condition EP-337/2009	EP Condition EP-445/2013	EP Condition EP-445/2013/A	Submission	Submission Date
Condition 1.11	Condition 1.12	Condition 1.12	NotificationofCommencementDateOfConstructionOftheProject	6 Jan 2020
Condition 2.3	Condition 2.3	Condition 2.3	Management Organization of Main Construction Companies	9 Sep 2019
Condition 2.3	Condition 2.3	Condition 2.3	Updated Management Organization of Main Construction Companies	28 May 2020
Condition 2.4	Condition 2.4	Condition 2.4	Design Drawings	6 Jan 2020
Condition 2.11	Condition 2.5	Condition 2.5	Landscape Mitigation Plans	13 Nov 2020
Condition 3.2	NA	NA	Baseline Monitoring	2 Jan 2020

Table 1.3 Summary of Status of Required Submission of EPs

EP Condition EP-337/2009	EP Condition EP-445/2013	EP Condition EP-445/2013/A	Submission	Submission Date
			Report	
Condition 3.2	NA	NA	Revised Baseline Monitoring Report	28 Mar 2020
Condition 3.3	Condition 3.2	Condition 3.2	Monthly EM&A Report (April 2021)	13 May 2021

### 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 5.

Tuble 2.1 Bocations of the Quanty Hontooning 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	Rooftop			
AM7 – Hong Kong Children's Hospital	Rooftop			

Table 2.1 Locations of Air Quality Monitoring Stations

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

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

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

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

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

#### **Monitoring Equipment**

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

Equipment	Model	Quantity
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

Table 2.3 Air Quality Monitoring Equipment

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

#### Monitoring Methodology and QA/QC Procedure

#### 24-hour TSP Monitoring

#### Operating/Analytical Procedures

- 2.9 Setup criteria of HVS are shown as follows:
  - A horizontal platform with appropriate support to secure the samplers against gusty wind was provided.
  - No two samplers were placed less than 2m apart.
  - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
  - A minimum of 2m of separation from walls, parapets and penthouses was set for the rooftop samples.
  - A minimum of 2m separation from any supporting structure, measured horizontally was set.
  - No furnaces or incineration flues was nearby.
  - Airflow around the sampler was unrestricted.
  - Any wire fence and gate, to protect the samplers, was not caused any obstruction during monitoring.
  - Permission were obtained to setup the samplers and to obtain access to the monitoring stations.
  - A secured supply of electricity was provided to operate the samplers.
- 2.10 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m³/min. and 1.7 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.11 For TSP sampling, Glass Fiber Filter Media 8" x 10" have a collection efficiency of > 99 % for particles of 0.3 μm diameter were used.
- 2.12 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station.

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

#### Maintenance/Calibration

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

#### 1-hour TSP Monitoring

#### Measurement Procedures

- 2.19 The measurement procedures of the 1-hour TSP were conducted in accordance with the Manufacturer's Instruction Manual as follows:
  - Set up the dust meter on a tripod at 1.2m level.
  - Turned on the dust meter and check the battery, if too low, change new ones. Pointed the meter to the source area or the planned measurement area.

- The zero calibration of the instrument was conducted before and after each sampling.
- TSP levels were recorded for 1-hour with 5-minute data logging interval.
- Recorded down the general meteorological conditions, Test ID no., start/end time, spot check reading at each sampling location for data processing.
- Recorded any activities that may generate dust during measurement period.

#### Maintenance/Calibration

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

• To 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

- 2.21 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.
- 2.22 The wind data was captured by a data logger and the data was downloaded at least once per month for analysis.
- 2.23 The wind data monitoring equipment will be re-calibrated at least once every six months.
- 2.24 Wind direction is divided into 16 sectors of 22.5 degrees each.
- 2.25 Details of weather information during the monitoring period are shown in Appendix F.

#### Action and Limit Levels

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

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

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

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

Parameter	Air Monitoring Station	Action Level, $\mu g/m^3$	Limit Level, $\mu g/m^3$
1-hour average TSP	AM3	297	500
	AM4(A)	326	500
	AM7	315	500

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

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

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

Air Monitoring Station	Average TSP Concentration, µg/m ³	Range, μg/m ³	Action Level, $\mu g/m^3$	Limit Level, µg/m ³
AM3	44	30 - 84	182	260
AM4(A)	48	37 - 84	187	260
AM7	48	37 - 72	181	260

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

Air Monitoring Station	Average TSP Concentration, µg/m ³	Range, μg/m ³	Action Level, µg/m ³	Limit Level, µg/m ³
AM3	28	15 - 57	297	500
AM4(A)	31	21 - 54	326	500
AM7	35	23 - 56	315	500

- 2.28 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting month.
- 2.29 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix G and Appendix H respectively.

- 2.30 The Event and Action Plan is provided in Appendix I.
- 2.31 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

### 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,  $L_{Aeq, 30-minute}$ , 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 6.

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

Table 3.1 Locations of Noise Monitoring Stations

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

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

Noise Monitoring Station	Location for Measurement	Parameter	Frequency and Duration
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	1	$L_{Aeq,} L_{A10}$ and $L_{A90}$	30 - minutes measurement at each monitoring station between 0700 - 1900 hrs on normal weekdays (Monday, to Saturday) at
M12 - Hong Kong Children's Hospital	Rooftop (Façade)		(Monday to Saturday) at frequency of once per week.

Table 3.2 Noise Monitoring Parameters, Frequency and Duration

3.6 The monitoring schedule for reporting month and next month is presented in Appendix C.

3.7 Photographic records of the monitoring setup are shown in Appendix D.

#### **Monitoring Equipment**

3.8 As referred to 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 3.3 summarizes the equipment to be used in the noise monitoring.

Table 3.3 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

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

#### Monitoring Methodology and QA/QC Procedure

- 3.10 The noise level measurement was conducted at 1m from the exterior of the nearby noise sensitive receivers building façade and at 1.2m above the ground and facing to the source area or the planned measurement area.
- 3.11 No noise measurement was conducted in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. Air flow was measured by air flow

meter.

- 3.12 Turned on the sound level meter and check the battery, if too low, change new ones.
- 3.13 Calibration was conducted immediately prior to and after each noise measurement, the accuracy of the sound level meters was checked by using sound calibrator generating 1,000 Hz with 94dB. Measurement data was found to be valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.
- 3.14 Noise level was recorded.
- 3.15 Recorded any activities that may generate noise during measurement period.

#### **Maintenance and Calibration**

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

#### Action and Limit Levels

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

Table 3.4 Raseline Noise Leve	l and Action and Limit Levels	for Construction Noise Monitoring
Tuble 5.4 Duseline Noise Leve	and Action and Linu Levels	jor construction Noise Montioring

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  ub(R)

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**

M11

M12

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

Limit

Level

75

dB(A)

When one documented

complaint is received

Noise<br/>Monitoring<br/>StationMeasured LAeq, 30-min,<br/>Average, dB(A)Measured LAeq, 30-min,<br/>Range, dB(A)Action Level

Table 3.5 Summary of Noise Monitoring Data during the reporting month

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

68.4 - 69.3

62.5 - 65.7

- 3.21 There were no action level exceedance of noise monitoring and limit level exceedance of  $L_{Aeq}$ , _{30min} recorded during the reporting month.
- 3.22 Graphical presentation and detailed monitoring results are shown in Appendix K.
- 3.23 The Event and Action Plan is provided in Appendix L.

68.7

64.8

3.24 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.

Predicted Cumulative Maximum Measured 24-hr 24-hour average TSP average TSP in concentration Reporting ASR No. in Scenario 1 Air Monitoring Station Scenario 2 Month EIA report (Mid 2009 to (Mid 2013 to (May 2021) Mid 2013), Late 2016),  $\mu g/m^3$  $\mu g/m^3$  $\mu g/m^3$ A40^ 30 - 84AM3 - Sky Tower 106 138 AM4(A) - The Hong Kong Society for the Blind's Factory A43^ 123 195 37 - 84cum Sheltered Workshop AM7 - Hong Kong Children's PA60 NA NA 37 - 72Hospital

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

Note:

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

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

Air Monitoring Station	ASR No. in EIA report	Predicted Cumulative Maximum1-hour average TSPconcentrationScenario 1Scenario 2(Mid 2009 toMid 2013),Late 2016),µg/m³µg/m³		Measured 1-hr average TSP in Reporting Month (May 2021) µg/m ³
AM3 - Sky Tower	A40	217^	247^	15 - 57
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	A43	283^	409^	21 - 54
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	23 - 56

Note:

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

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour L _{Aeq, 30min} , dB(A)	Measured Noise Level in Reporting Month (May 2021) L _{Aeq, 30min} , dB(A)
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	N18	50 - 76*	68.4 - 69.3
M12 - Hong Kong Children's Hospital	PN83, PN84, PN84A	NA	62.5 - 65.7

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Note:

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

- 4.2 24-hour TSP monitoring results at AM3 and AM4(A) were recorded lower than the Scenario 1 (Mid 2009 to Mid 2013) and the Scenario 2 (Mid 2013 to Late 2016) in the EIA Report.
- 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.
- 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.
- 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 May 2021 in the reporting month.
- 5.4 The summaries of site audits are attached in Table 5.1.

Close-out Inspection **Key Observations Recommendations / Actions** Date / Date Status 6 May No NA NA 2021 12 May NA No NA 2021 20 May NA No NA 2021 27 May No NA NA 2021

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

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

### 6. ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### **Site Inspection**

- 6.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site inspections were conducted on 6, 12, 20 and 27 May 2021 in the reporting month.
- 6.3 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
6 May	Observation: Chemical waste containers should be suitably labelled.	Action Taken: Containers were labeled.	Closed-out 12 May 2021
2021	Observation: Suitable containers should be used to hold the chemical wastes during storage.	Action Taken:         Secondary       container       was         provided.	Closed-out 12 May 2021
12 May 2021	NA	NA	NA
20 May 2021	NA	NA	NA
27 May 2021	NA	NA	NA

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

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

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

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

Environmental Licenses, Notifications and Permits	Ref. No.	Valid Form	Valid Till
	EP-337/2009	23 Apr 2009	N/A
Environmental Permit under EIAO	EP-445/2013	3 May 2013	N/A
	EP-445/2013/A	13 Aug 2014	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-RE0991-20	26 Nov 2020	25 May 2021
	GW-RE1044-20	10 Dec 2020	01 Jun2021
	GW-RE1074-20	18 Dec 2020	17 Jun 2021
	GW-RE0020-21	15 Jan 2021	11 Jun 2021
	GW-RE0021-21	15 Jan 2021	11 June2021
	GW-RE0360-21	20 Apr 2021	13 Oct 2021
	GW-RE0388-21	28 Apr 2021	27 Oct 2021

Table 6.2 Summary of Environmental Licenses, Notifications and Permits

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

6.7 The Contractor has implemented environmental mitigation measures and requires as stated in the EIA reports, the EP and the EM&A Manuals. The implementation status of the mitigation

measures during the reporting month is summarized in Appendix O.

6.8 In response to the site audit findings, the Contractor carried out corrective actions with summary given in Appendix O.

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

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

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

Table 6.3 Summary of complaints in the Reporting Month

6.10 Complaint log and Complaint Investigation report are shown in Appendix P.

#### Notifications of summons and successful prosecutions

6.11 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.

10010 011 0111	There of the summers 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 notification	NA	NA	NA	NA	

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 take	Close-out date / Status
of summons and successful prosecutions were received in the reporting month.				

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

### 7. FUTURE KEY ISSUES

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

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

<u>Table 7.1 Summary of Juline Rey issues and polential impact in the coming month</u>	
Future key issues in the coming month	Potential impact
North Approach Ramp – Construction of wall, intermediate slab and column	Noise and Air Quality
Bridge D3 – Construction of pile cap and pier	Noise and Air Quality
North Depressed Road – Construction of wall & top slab / dismantling of wailing & strut of cofferdam and removal of sheet pile	Noise and Air Quality
Underpass – Excavation, construction of base slab and backfilling, Construction of wall & top slab	Noise and Air Quality
South Approach Ramp – Installation of sheet pile and excavation	Noise and Air Quality
Landscaped Deck – Construction of bored piles	Noise and Air Quality
District Cooling System seawater intake box culvert – Construction of cofferdam and box structure	Noise and Air Quality
Noise barrier – Installation of steel structure and PMMA panel	Noise and Air Quality
Lift 3 – Construction of cofferdam for footing	Noise and Air Quality
Lift 4 – Excavation for footing	Noise and Air Quality

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

Future key issues in the coming month	Potential impact
South Depressed Road – Excavation and Installation of Lateral Support works	Noise and Air 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 C.

## 8. CONCLUSIONS

- 8.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.
- 8.2 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.3 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.4 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.5 No complaint was received in the reporting month.
- 8.6 No notification of summons and successful prosecutions was received in the reporting month.

## Figure

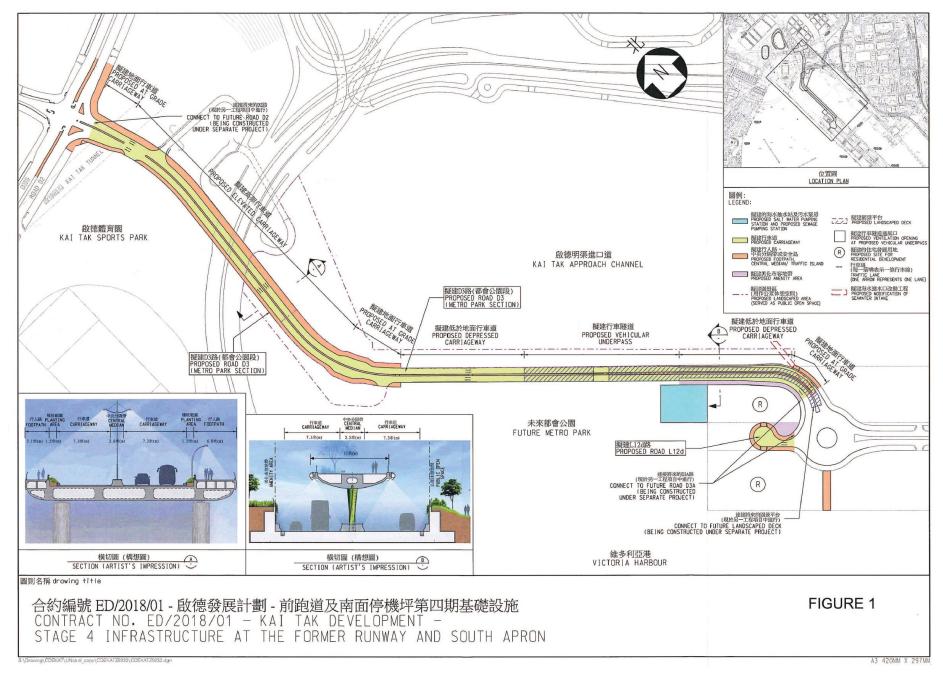


Figure 1 – Proposed works of Contract No. ED/2018/01

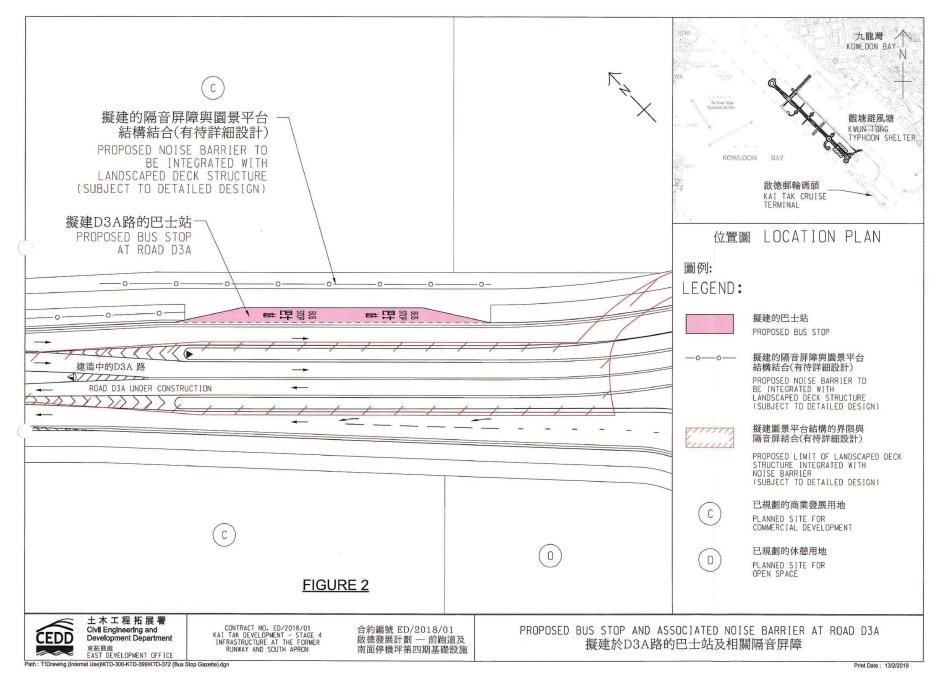


Figure 2 - Proposed Bus Stop And Associated Noise Barrier At Road D3A

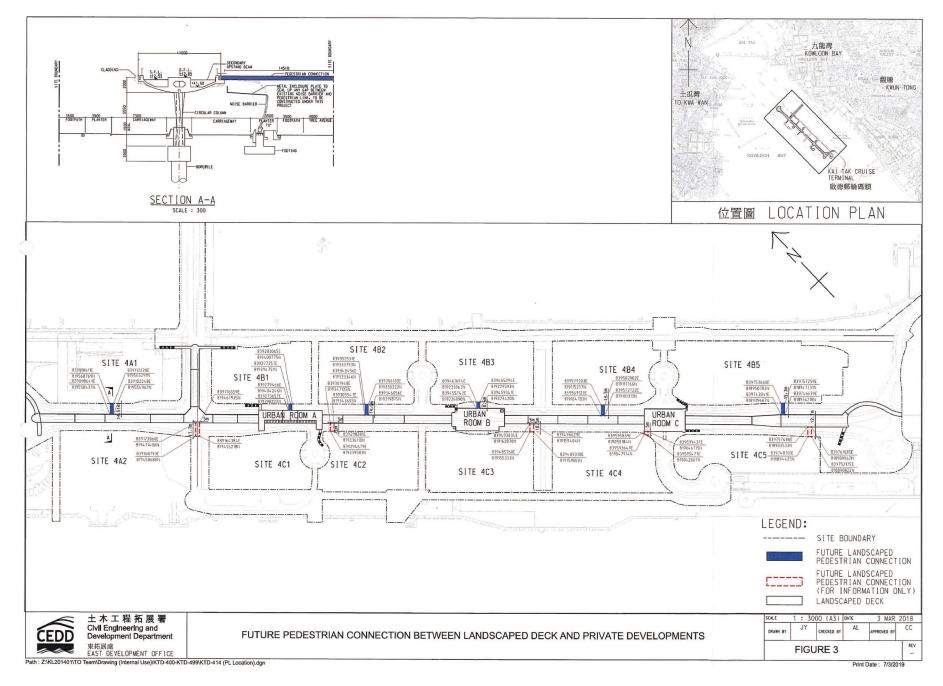


Figure 3 – Future Pedestrian Connection Between Landscaped Deck And Private Developments

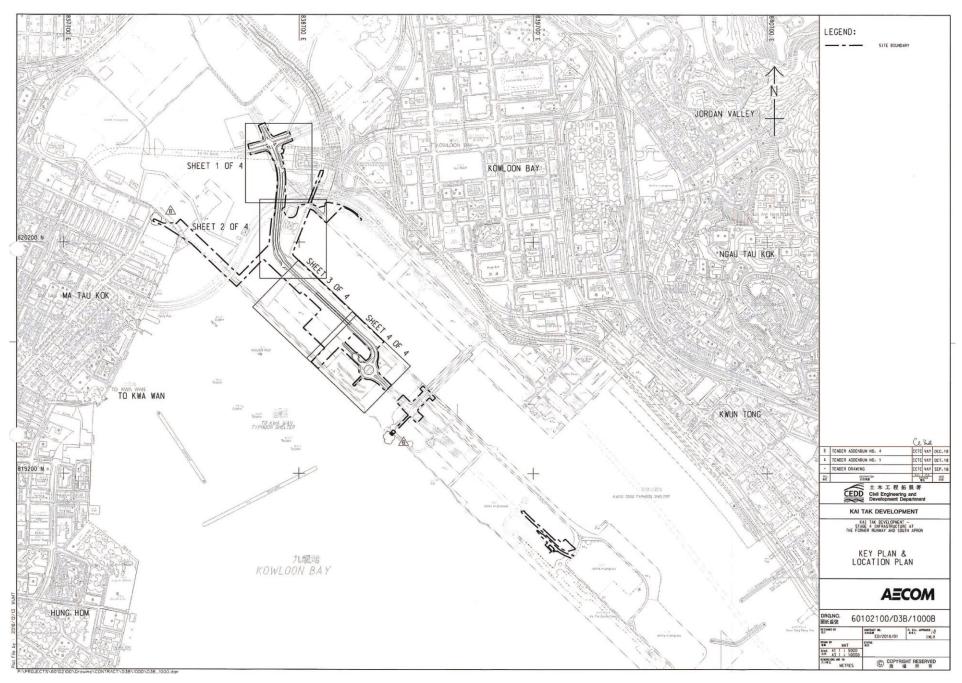


Figure 4 – Site Layout Plan

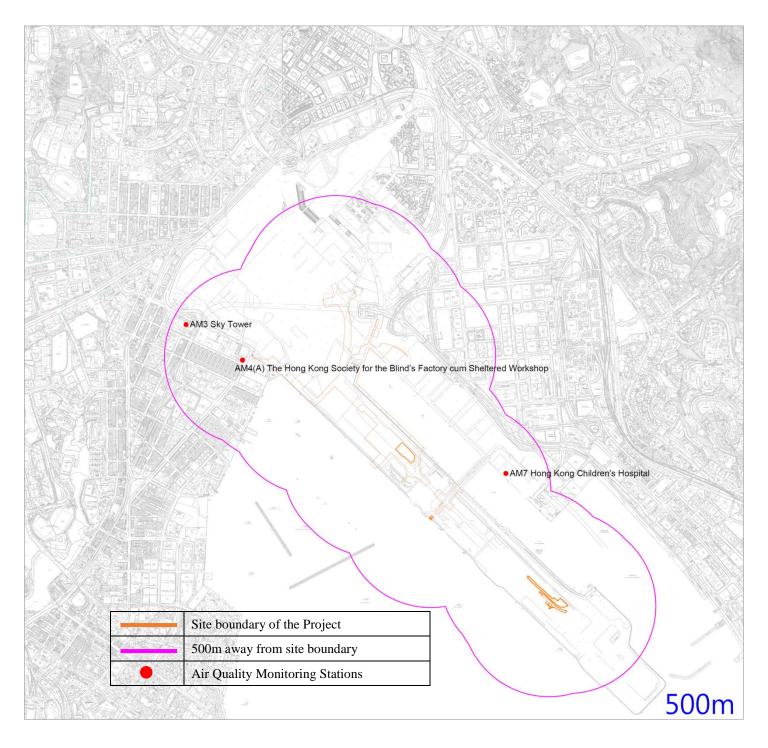


Figure 5 – Air Quality Monitoring Stations

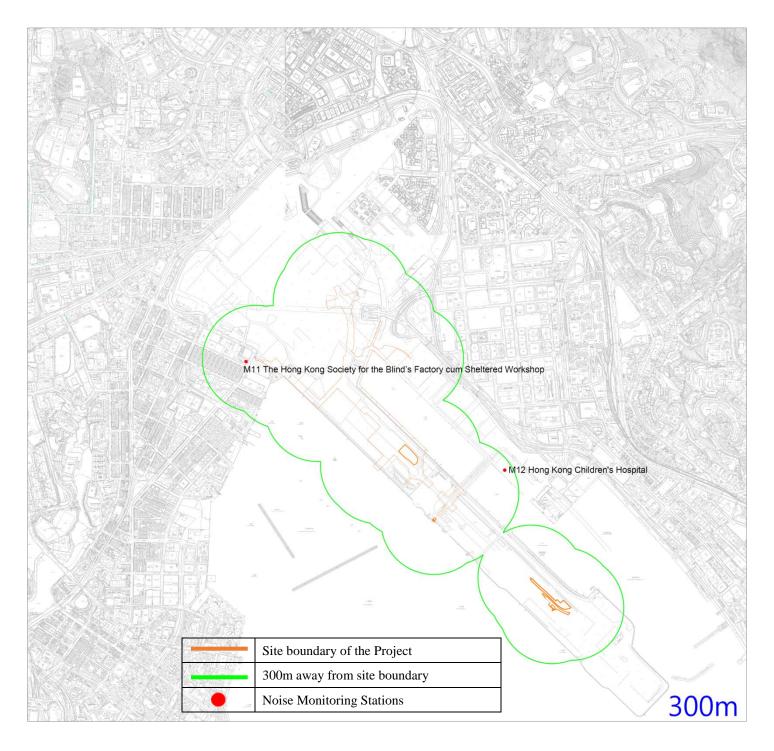
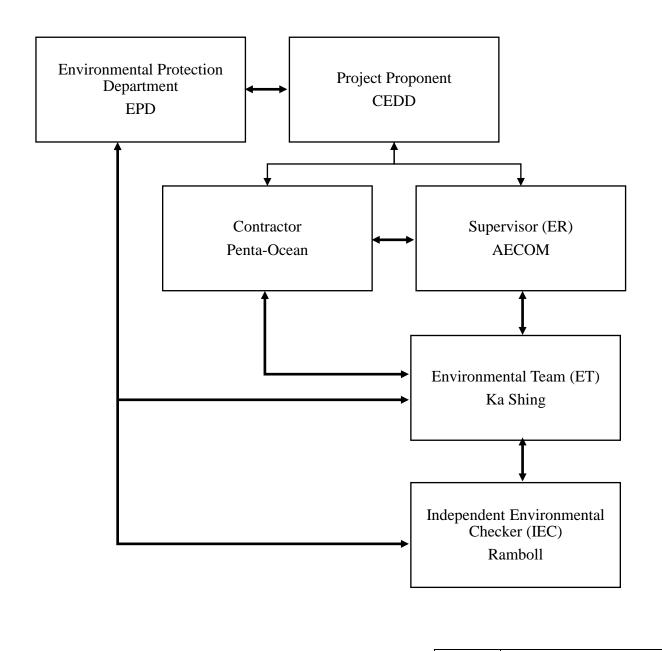
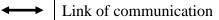


Figure 6 – Noise Monitoring Stations

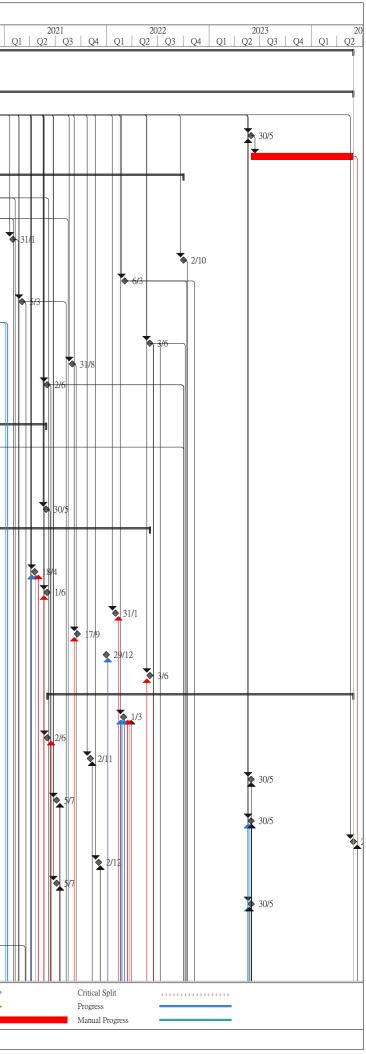
Appendix A – Organization Chart of EM&A Team



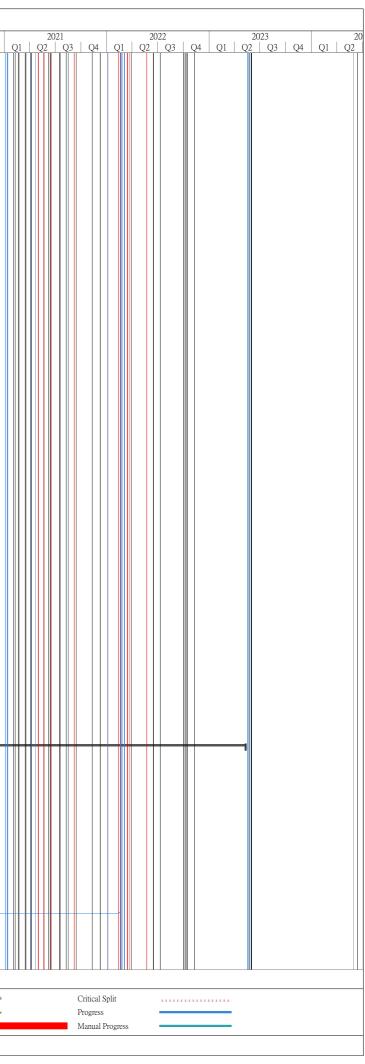


## **Appendix B – Construction Programme**

	Task Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	202	
1	Project Dates		Duration 5.03 days	Duration 1835.97 days	Complete 0%	Thu 16/5/19		Thu 16/5/19		Thu 16/5/19	Wed 29/5/24	Slack 0 days	0 days		Q2	
2	Contract Date	0 days		0 days	0%	Thu 16/5/19			Thu 16/5/19		Thu 16/5/19	0 days	0 days			
3	Date of Commencement & Completion (CDP1: Item 3)	1827 days	-	1827 days	0%	Thu 30/5/19		Thu 10/5/19		Thu 30/5/19	Wed 29/5/24		0 days			
4	Starting Date (CDPart1: Item 3)	0 days		0 days	100%	Thu 30/5/19		Thu 30/5/19			Thu 30/5/19	0 days		2FS+14 days		
5	Completion Date		0 days	0 days	0%	Tue 30/5/23	Tue 30/5/23		NA	Tue 30/5/23	Tue 30/5/23	0 days		4FS+1461 days,		
6	Establishment Work	365 days	-	365 days	0%	Wed 31/5/23	Wed 29/5/24		NA	Wed 31/5/23	Wed 29/5/24	0 days		5		
7			-		0%									5		
	Schedule of Access Dates (CDP1: Item 3[TA No.1)		1221 days	0 days		Thu 30/5/19		Thu 30/5/19		Thu 30/5/19	Sun 2/10/22		0 days			
8	Access Date - Part 1, 6A,6B,9A,9B	0 days		0 days	100%	Thu 30/5/19		Thu 30/5/19	Thu 30/5/19		Thu 30/5/19		0 days	4	•	
9	Access Date - Part 2A,2C		0 days	0 days	0%	Tue 2/6/20		NA	NA	Tue 2/6/20	Tue 2/6/20	0 days		4FS+369 days	• 2	/6
10	Access Date - Part 2B		0 days	0 days	0%	Sun 31/1/21	Sun 31/1/21		NA	Sun 31/1/21	Sun 31/1/21	0 days		4FS+612 days		
11	Access Date - Part 2E		0 days	0 days	0%	Sun 2/10/22	Sun 2/10/22		NA	Sun 2/10/22	Sun 2/10/22	0 days		4FS+1221 days		
12	Access Date - Part 3A	0 days	0 days	0 days	0%	Sun 6/3/22	Sun 6/3/22	NA	NA	Sun 6/3/22	Sun 6/3/22	0 days	0 days	4FS+1011 days		
13	Access Date - Part 3B,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		
14	Access Date - Part 3C,3D,3E,3G,3I	1 day	1 day	0 days	100%	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	0 days	0 days			╫
15	Access Date - Part 3F	0 days	0 days	0 days	0%	Fri 3/6/22	Fri 3/6/22	NA	NA	Fri 3/6/22	Fri 3/6/22	0 days	0 days	4FS+1100 days		
16	Access Date - Part 3H,7A,7B,8,9 (TA No.1)	0 days	0 days	0 days	0%	Tue 31/8/21	Tue 31/8/21	NA	NA	Tue 31/8/21	Tue 31/8/21	0 days	0 days	4FS+824 days		
17	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		
18	Access Date - Area WA1	0 days	0 days	0 days	100%	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	0 days	0 days	4		
19	Schedule of Time for Ordering (CDP1: Item Cl.B5)	695 days	0 days	695 days	0%	Fri 5/7/19	Sun 30/5/21	Fri 5/7/19	NA	Fri 5/7/19	Sun 30/5/21	0 days	0 days			+
20	Time for Ordering "Section Subject to Excision" - Section 4	0 days	0 days	0 days	0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20	0 days	0 days	4FS+368 days		2/6
21	Time for Ordering "Section Subject to Excision" - Section 8	0 days	0 days	0 days	0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20	0 days	0 days	4FS+368 days	• 2	2/6
22	Time for Ordering "Section Subject to Excision" - Section 9	0 days	0 days	0 days	100%	Fri 5/7/19	Fri 5/7/19	Fri 5/7/19	Fri 5/7/19	Fri 5/7/19	Fri 5/7/19	0 days	0 days	4FS+35 days		
23	Time for Ordering "Section Subject to Excision" - Section 10	0 days	0 days	0 days	0%	Sun 30/5/21	Sun 30/5/21	NA	NA	Sun 30/5/21	Sun 30/5/21	0 days	0 days	4FS+730 days		
24	Schedule of Key Dates (CDP1: Item 3[TA No.1])	665 days	0 days	665 days	0%	Fri 7/8/20	Fri 3/6/22	NA	NA	Fri 7/8/20	Fri 3/6/22	0 days	0 days			
25	KD1	0 days	0 days	0 days	0%	Fri 7/8/20	Fri 7/8/20	NA	NA	Fri 7/8/20	Fri 7/8/20	-4 days	0 days	4FS+435 days,70		€
26	KD2	0 days	0 days	0 days	0%	Sun 18/4/21	Sun 18/4/21	NA	NA	Sun 18/4/21	Sun 18/4/21	0 days	0 days	4FS+689 days,70		
27	KD3	0 days	0 days	0 days	0%	Tue 1/6/21	Tue 1/6/21	NA	NA	Tue 1/6/21	Tue 1/6/21	0 days	0 days	4FS+733 days,70		
28	KD4	0 days	0 days	0 days	0%	Mon 31/1/22	Mon 31/1/22	NA	NA	Mon 31/1/22	Mon 31/1/22	0 days	0 days	4FS+977 days,70		
29	KD5	0 days	0 days	0 days	0%	Fri 17/9/21	Fri 17/9/21	NA	NA	Fri 17/9/21	Fri 17/9/21	0 days	0 days	4FS+841 days,70		
30	KD6		0 days	0 days	0%	Wed 29/12/21	Wed 29/12/21		NA	Wed 29/12/21	Wed 29/12/21			706,883		
31	KD7		0 days	0 days	0%	Fri 3/6/22		NA	NA	Fri 3/6/22	Fri 3/6/22			4FS+1100 days,		
32	Schedule of Section Completion (CDP1 Cl. X5)	1092 days		1092 days	0%	Wed 2/6/21	Wed 29/5/24		NA	Wed 2/6/21	Wed 29/5/24		0 days	11011100 days,		
33	Section Completion Date Section 1		-		0%	Tue 1/3/22		NA	NA	Tue 1/3/22	Tue 1/3/22	-13 days		4FS+1006 days,6		
33	Section Completion Date Section 2	0 days		0 days										4FS+734 days,69		
	•		0 days	0 days	0%	Wed 2/6/21		NA	NA	Wed 2/6/21	Wed 2/6/21					
35	Section Completion Date Section 3		0 days	0 days	0%	Tue 2/11/21	Tue 2/11/21		NA	Tue 2/11/21	Tue 2/11/21	0 days		4FS+887 days,69		
36	Section Completion Date Section 4		0 days	0 days	0%	Tue 30/5/23	Tue 30/5/23		NA	Tue 30/5/23	Tue 30/5/23	0 days		4FS+1461 days,6		
37	Section Completion Date Section 5		0 days	0 days	0%	Mon 5/7/21		NA	NA	Mon 5/7/21	Mon 5/7/21	0 days		4FS+767 days,69		
38	Section Completion Date Section 6		0 days	0 days	0%	Tue 30/5/23	Tue 30/5/23		NA	Tue 30/5/23	Tue 30/5/23	0 days		4FS+1461 days,6		
39	Section Completion Date 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	4FS+1826 days,6		
40	Section Completion Date Section 8	0 days	0 days	0 days	0%	Thu 2/12/21	Thu 2/12/21	NA	NA	Thu 2/12/21	Thu 2/12/21	0 days	0 days	4FS+917 days,69		
41	Section Completion Date Section 9	0 days	0 days	0 days	0%	Mon 5/7/21	Mon 5/7/21	NA	NA	Mon 5/7/21	Mon 5/7/21	0 days	0 days	4FS+767 days,69		
42	Section Completion Date Section 10	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	0 days	4FS+1461 days,		
43	Pre-meeting of ACABAS	77 days	0 days	77 days	0%	Mon 29/6/20	Mon 14/9/20	NA	NA	Mon 6/7/20	Mon 14/9/20	0 days				╡
44	Pre-meeting of ACABAS	0 days	0 days	0 days	0%	Mon 29/6/20	Mon 29/6/20	NA	NA	Thu 23/7/20	Thu 23/7/20	24 days			•	1 291
45	Task Force on Kai Tak Harbourfront Development Meeting	0 days	0 days	0 days	0%	Mon 6/7/20	Mon 6/7/20	NA	NA	Mon 6/7/20	Mon 6/7/20	0 days				\$ 6/T
	Dev 11 Deservith Deserves Task	Summary			Inactive N	filestone 🔷	1	Duration-on	lv		Start-only		C	Exte	mal Mile	stone
	Rev.11 Prog with Progress Task 22-May-20 Split		mary		Inactive N				nmary Rollup 💼		Finish-only		3	Dead		
	Milestone	Inactive Tasl			Manual T	-		Manual Sun	-		External Tasl			Criti	1	



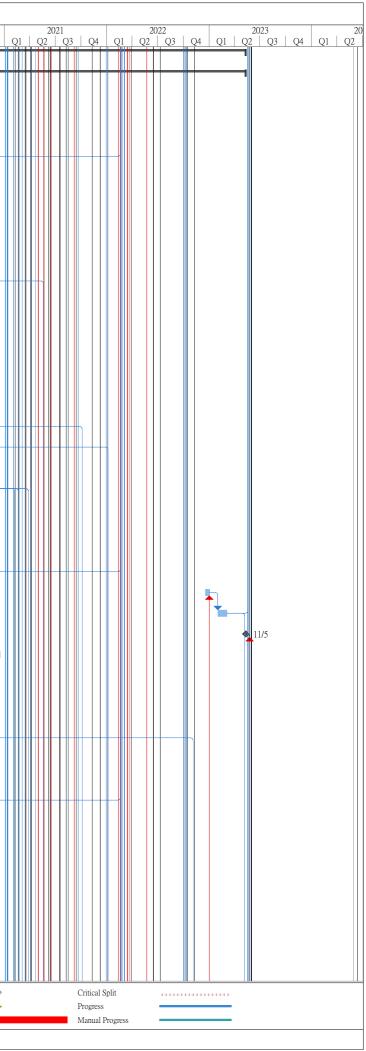
)	Task Name	Duration		Remaining	Physical %	Early Start	Early Finish	Actual Start		5	Late Finish	Total	TRA	Predecessors		020
46	District Council Consultation	0 days	Duration 0 days	Duration 0 days	Complete 0%	Mon 14/9/20	Mon 14/9/20	NA	NA	Mon 14/9/20	Mon 14/9/20	Slack 0 days		_	Q2	
47	Project Manager's 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 davs	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		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	0 days			18/2	
.,	Coronavirus Between 29 January 2020 to 02 February 2020	o dajo	o aujo	o aujo	10070	111 20/2/20	111 2012120	111 2012120	111 20/2/20	111 2012120	111 2012/20	0 days			5072	
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	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			:6/2	
	Coronavirus Between 29 January 2020 to 02 February 2020															
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	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				
57	EW No. 004: Late Commencement on Noise and Air Baseline Monitoring Delay the	-	0 days	0 days	100%	Mon 4/11/19		Mon 4/11/19			Mon 4/11/19	0 days				
	Northern Depressed Road CH1560 to 1720	, aug 3	5 44.75		100 /0							C duys				
58	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	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				
	especially affect the KTD1								13/11/17							
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				
60	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				
61	EW No. 008: Not Allow to Extract Sheetpiles of North Approach Ramp beside Kai Tak	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				
	Sport Park as Discussed at the Interface Meeting															
62	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				
63	EW No. 011: Additional Requirement for Special Arrangement for Design and Constructioon of Noise Barrier fir Future Connection of Footbridge FB10 from	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				
64	Development Site 4B5 EW No. 014: Planning of the Works in Revised Programme (Rev. 6)	0 dave	0 dave	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				
		-	0 days	-											V2	
65	EW No. 015: Outbreak of Novel Coronavirus (Constraints on Working Time)	-	0 days	0 days	100%	Tue 11/2/20		Tue 11/2/20			Tue 11/2/20	0 days			/2	
66	EW No. 016: Outbreak of Novel Coronavirus (Late Supply of Agggregate)	-	0 days	0 days	100%	Wed 19/2/20	Wed 19/2/20	Wed 19/2/20			Wed 19/2/20	0 days			9/2	
67	EW No. 020: GEO Audit for Underpass D3	0 days		0 days	100%	Fri 13/3/20		Fri 13/3/20			Fri 13/3/20	0 days			13/3	
68	EW No. 021: Unforessen Underground Water at North Approach Ramp Bay 6		0 days	0 days	100%	Thu 12/3/20	Thu 12/3/20	Thu 12/3/20			Thu 12/3/20	0 days			12/3	
69		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	0 days			13/3	
70	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	
71	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	
72	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	3		n	
73	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	5		•	-28/
74	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				
75	Project Submission	1457 day	s401.03 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			┥╢╢
76	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		
77	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				
78	Submit First Programme	20 days	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		
79	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		
80	Revise and Resubmission of Works Programme	42 days	42 days	0 days	100%	Fri 14/6/19	Thu 25/7/19	Fri 14/6/19	Thu 25/7/19	Fri 14/6/19	Thu 25/7/19	0 days	0 days	79		
81	Final Review and Acceptance of the First Programme by Project Manager	20 days		0 days	100%	Sat 27/7/19	Thu 15/8/19	Sat 27/7/19	Thu 15/8/19		Thu 15/8/19	0 days	-	80		
82	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 days		4		
82		-	-	-	100%	Mon 9/12/19	Sat 11/1/20		Sat 11/1/20		Sat 11/1/20	0 days	-			
	Submit Detailed Programme for Safety Risk (ER Part 7, Cl. 7.3.4)	34 days		0 days												
84	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		Thu 30/5/19	Tue 4/6/19	0 days	-	4		
85	Submit BIM Models Deliverables	262 days	262 days	0 days	0%	Tue 13/8/19	Thu 30/4/20	Tue 13/8/19	Thu 30/4/20	Tue 13/8/19	Thu 30/4/20	0 days				
itle: F	Rev. 11 Prog with Progress	Summary	I		Inactive M			Duration-on	-		Start-only		C		xternal Mi	lesto
	22-May-20	Project Sum nactive Tas			Inactive S Manual T			<ul> <li>Manual Sun</li> <li>Manual Sun</li> </ul>	nmary Rollup 💼 nmary 🛛 📕		Finish-only External Tasl	ks	2		eadline ritical	
			••		ivitaliuai 1			- manual Sull			<ul> <li>Execution 1.450</li> </ul>			(		



Та	isk Name			Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	202	20
					Duration	Duration	Complete							Slack		Fieuecessors	Q2	
86	Existing Site Model (Topography)			46 days	-	0 days	100%	Tue 13/8/19	Fri 27/9/19		Fri 27/9/19		Fri 27/9/19	0 days	1 day			
87	Existing Underground Utilities (UU			33 days	-	0 days	100%	Mon 26/8/19	Fri 27/9/19		Fri 27/9/19		Fri 27/9/19	0 days	1 day			
88	3D Digital Survey For Existing Co	nditions		44 days	-	0 days	100%	Mon 2/9/19					Tue 15/10/19	0 days	1 day			
89	3D Photogrametry Model			46 days		0 days	100%	Mon 16/9/19		Mon 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	Mon 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 31/10/19	Thu 31/10/19	0 days	1 day			
93	4D Model Linked Up with Program	nme		0 days	0 days	0 days	100%	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20	0 days	1 day		<b>♦</b> 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	Wed 22/4/20	Wed 22/4/20	0 days	1 day		♦ 22/4	4
95	BIM Deliverables Schedule			896 days	3.72 days	892.28 days	0%	Thu 16/5/19	Wed 27/10/21	Thu 16/5/19	NA	Thu 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 3/8/19	Sat 3/8/19	0 days	1 day			
97	BIM Execution Plan			0 days	0 days	0 days	100%	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	0 days	1 day			
98	BIM Submission Schedule			0 days	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	1 day			
99	BIM 360 License			0 days	0 days	0 days	100%	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	0 days	1 day			
00	BIM/Drawing Management Softwa	are System		0 days	0 days	0 days	100%	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	0 days	1 day			
01	CDE Setup			1 day	1 day	0 days	100%	Sat 31/8/19	Mon 9/9/19	Sat 31/8/19	Mon 9/9/19	Sat 31/8/19	Mon 9/9/19	0 days	1 day			
02	Clash Report Format			0 days	0 days	0 days	100%	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	0 days	1 day			
.03	Monthly Report Format			0 days	0 days	0 days	100%	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	0 days	1 day			
04	Quality Assurance Plan for BIM			-	0 days	0 days	100%	Mon 30/9/19	Mon 30/9/19	Mon 30/9/19	Mon 30/9/19	Mon 30/9/19	Mon 30/9/19	0 days	1 day			
05	BIM Training Plan				0 days	0 days	100%	Thu 10/10/19	Thu 10/10/19	Thu 10/10/19	Thu 10/10/19	Thu 10/10/19	Thu 10/10/19	0 days	1 day			
06	BIM Training Schedule for CIC Tr	aining		-	0 days	0 days	100%	Mon 30/9/19		Mon 30/9/19			Mon 30/9/19		1 day			
)7	Monthly BIM Progress Report				0 days	0 days	100%	Thu 16/5/19		Thu 16/5/19			Tue 31/12/19	0 days	1 day			
08	Monthly Clash Report			-	1 day	0 days	100%	Tue 31/3/20		Tue 31/3/20			Tue 31/3/20		1 day		_	
	BIM Object Libraries				-	-	100%	Thu 12/9/19		Thu 12/9/19			Thu 12/9/19					
09	Ŭ			-	1 day	0 days									1 day			
10	Trees Preservation and Removal Pr Submission			-	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20		NA	Sun 17/1/21	Sun 17/1/21	63 days		110		
.11	Trees Preservation and Removal Pr Submission Comment & Approval	by Relevant Government Authori	omenade open space ies	e 360 days	0 days	360 days	0%	Mon 2/11/20	Wed 27/10/21	NA	NA	Sun 17/1/21	Tue 11/1/22	76 days	I day	110		
12	Trees Preservation and Removal Pr	roposal (TPRP) for tress along Sin	ng Kai Submission	0 days	0 days	0 days	0%	Fri 31/7/20	Fri 31/7/20	NA	NA	Wed 30/9/20	Wed 30/9/20	52 days	1 day			<b>\$</b> 31 <i>1</i>
13	Trees Preservation and Removal Pr Submission Comment & Approval	oposal (TPRP) for tress along Sin	ng Kai Road	360 days	0 days	360 days	0%	Fri 31/7/20	Sun 25/7/21	NA	NA	Wed 30/9/20	Fri 24/9/21	61 days	1 day	112		-
	Submission Comment & Approval	by Relevant Government Authori	ies															
14	Temporary Traffic Management			478 days	447.84 days	30.16 days	0%	Thu 30/5/19	Fri 18/9/20	Thu 30/5/19	NA	Thu 30/5/19	Fri 25/9/20	7 days				
15	Submit Traffic Engineering Consul	tant 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 30/5/19	Wed 12/6/19	0 days	1 day	4		
16	Submit EP Mgt System Co-ordinat	or (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 30/5/19	Wed 5/6/19	0 days	1 day	4		
117	Approve of EP Co-ordinator by Pro	oject Manager (PS Cl. 1.18N(2))		14 days	14 days	0 days	100%	Thu 6/6/19	Wed 19/6/19	Thu 6/6/19	Wed 19/6/19	Thu 6/6/19	Wed 19/6/19	0 days	1 day	116		
18	Submit UU detection equipment for	r Supervisor approval (PS Cl. 1.2)	5A(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 30/5/19	Wed 5/6/19	0 days	1 day	4		
119	Submit & obtain approval: site offi submission + 14d approval)	ce's location and layout plan (PS (	Cl. 1.45(11)) (7d	47 days	47 days	0 days	100%	Thu 30/5/19	Fri 18/10/19	Thu 30/5/19	Fri 18/10/19	Thu 30/5/19	Fri 18/10/19	0 days	1 day	4		
20	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 30/5/19	Tue 2/7/19	0 days	1 day	4		
21	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	Mon 17/8/20	Fri 25/9/20	7 days	0.5 days	4		+
22	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 30/5/19	Fri 2/8/19	0 days	0.5 days	4		
23	Submit security system (PS Cl. 1.5	3A(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 30/5/19	Thu 4/7/19	0 days	0.5 days	4		
24	Submit Interface Management Plar	(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 30/5/19	Mon 15/7/19	0 days	0.5 days	4		
25	Submit Subcontractor Management			13 days		0 days	100%	Thu 30/5/19		Thu 30/5/19			Tue 11/6/19	0 days	0.5 days			
26	Submit Temporary Drainage and S		1. 1.24A(1))		174 days	0 days	100%	Thu 30/5/19		Thu 30/5/19			Tue 19/11/19	0 days	1 day	4		
27	Submit EM&A Manual (ER Part 8			6 days		0 days	100%	Thu 30/5/19	Tue 4/6/19		Tue 4/6/19		Tue 4/6/19		0 days	4		
28	Submit EvrecA Manual (EK Part 8			80 days	-	0 days	100%	Thu 30/5/19	Sat 17/8/19		Sat 17/8/19		Sat 17/8/19	0 days	0 days			
	-				-	-										4		
29	Submit Contractor's Management 7	teant (ACC CI. DI(3))		50 days	50 days	0 days	100%	Thu 30/5/19	Thu 18/7/19	Thu 30/5/19	1 nu 18///19	1 nu 30/5/19	Thu 18/7/19	0 days	0 days	4		
le: Rev	.11 Prog with Progress	Task		Summary			Inactive N			Duration-or			Start-only		C		ternal Mile	stone
(	-May-20	Split		Project Sum Inactive Tas			Inactive S	Summary		Ivianual Sur	nmary Rollup 🗧		Finish-only		3	De	eadline	

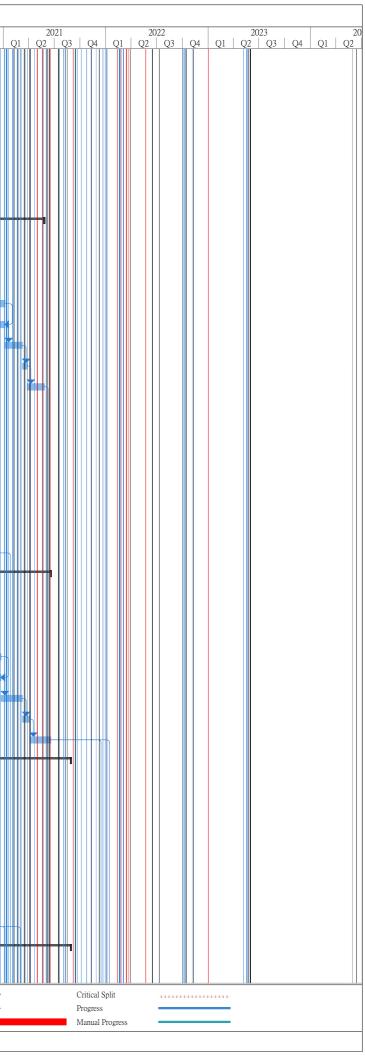
	2021	2022	2023 Q1 Q2 Q3 Q4 Q1 Q2
Critical Split	2021 Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4 Q1 Q2
Critical Split			
Progress	11		
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) [	Task Name	Duration A	Actual	Remaining	Physical %	Early Start		Actual Start			Late Finish	Total	TRA	Predecessors	20	020
		I	Duration	Duration	Complete							Slack	IKA	r ieuecessois		Q3
30	Permanent Works Design Submission		-	1083.92 days	0%	Thu 16/5/19		Thu 16/5/19		Thu 16/5/19	Thu 11/5/23	0 days				
31	General Design Submission			487.54 days	0%	Thu 30/5/19		Thu 30/5/19		Thu 30/5/19	Thu 11/5/23	0 days		4		
2	Project Design Plan (Draft)	16 days 1	-	0 days	100%	Thu 30/5/19		Thu 30/5/19		Thu 30/5/19	Fri 14/6/19	0 days	1 day	4		
3	Project Design Plan (Draft) Comment by PM	14 days 1	14 days	0 days	100%	Sat 15/6/19	Fri 28/6/19			Sat 15/6/19	Fri 28/6/19	0 days	1 day			
34	Address Comments	120 days 6	-	54 days	55%	Tue 2/7/19	Wed 15/7/20	Tue 2/7/19	NA	Tue 2/7/19	Thu 11/5/23	1030 d	1 days	132	•••	
35	Project Design Plan (Final)	54 days	54 days	0 days	100%	Thu 5/9/19	Tue 29/10/19	Thu 5/9/19	Tue 29/10/19	Thu 5/9/19	Tue 29/10/19	0 days	1 days	134		
36	Design Memorandum (include E&M Provision) (Draft)	26 days 2	26 days	0 days	100%	Tue 4/6/19	Sat 29/6/19	Tue 4/6/19	Sat 29/6/19	Tue 4/6/19	Sat 29/6/19	0 days	1 days	132		
37	Address Comments	15 days 1	15 days	0 days	100%	Thu 1/8/19	Thu 15/8/19	Thu 1/8/19	Thu 15/8/19	Thu 1/8/19	Thu 15/8/19	0 days	1 days	136		
138	Design Memorandum Include E&M Provision (Final)	59 days	59 days	0 days	100%	Tue 23/7/19	Sun 17/11/19	Tue 23/7/19	Sun 17/11/19	Tue 23/7/19	Sun 17/11/19	0 days	1 days	137		
139	Traffic Impact Assessment(Draft)	62 days	62 days	0 days	100%	Wed 18/9/19	Mon 18/11/19	Wed 18/9/19	Mon 18/11/	Wed 18/9/19	Mon 18/11/19	0 days	1 day	4		
140	Address Comments	16 days 1	16 days	0 days	100%	Mon 18/11/19	Wed 4/12/19	Mon 18/11/19	Wed 4/12/19	Mon 18/11/19	Wed 4/12/19	0 days	0.5 days	139		
141	Traffic Impact Assessment(Final)	30 days	0 days	30 days	0%	Mon 3/8/20	Tue 1/9/20	NA	NA	Sat 24/4/21	Sun 23/5/21	264 days	0.5 days	140		ľ
142	ACABAS (Draft)	69 days	69 days	0 days	100%	Thu 30/5/19	Tue 6/8/19	Thu 30/5/19	Tue 6/8/19	Thu 30/5/19	Tue 6/8/19	0 days	2 days	4		
143	Address Committee's comments	30 days	30 days	0 days	100%	Wed 7/8/19	Thu 5/9/19	Wed 7/8/19	Thu 5/9/19	Wed 7/8/19	Thu 5/9/19	0 days	2 days	142		
144	ACABAS Re-submission Preparation & Submission	61 days 6	61 days	0 days	100%	Fri 6/9/19	Tue 5/11/19	Fri 6/9/19	Tue 5/11/19	Fri 6/9/19	Tue 5/11/19	0 days	2 days	143		
145	ACABAS Submission Approved	63 days	63 days	0 days	100%	Wed 6/11/19	Tue 7/1/20	Wed 6/11/19	Tue 7/1/20	Wed 6/11/19	Tue 7/1/20	0 days	2 days	144		
146	VCAB and DAP Submission	22 days 2	22 days	0 days	100%	Mon 10/2/20	Mon 2/3/20	Mon 10/2/20	Mon 2/3/20	Mon 10/2/20	Mon 2/3/20	0 days	2 days	4		
147	Comment by PM and Relevant Authorities	21 days 2		0 days	100%	Tue 3/3/20		Tue 3/3/20	Mon 23/3/20		Mon 23/3/20	0 days	2 days	146		
148	Stage 1: VCAB and DAP Submission	50 days	-	50 days	0%	Fri 12/6/20		NA		Sat 4/7/20	Sat 22/8/20	22 days	-	147,44FF+21 da		
149	Comment by PM and Relevant Authorities	50 days 0		50 days	0%	Sat 1/8/20		NA		Sun 23/8/20	Sun 11/10/20	22 days		148		
50	Stage 2: VCAB and DAP Submission	-	-	30 days	0%	Sun 20/9/20	Mon 19/10/20		NA	Fri 13/11/20	Sat 12/12/20	54 days	2 uays	140		
		30 days (														
151	Comment by PM and Relevant Authorities	50 days (	-	50 days	0%	Tue 20/10/20		NA		Sun 13/12/20	Sun 31/1/21	54 days		150		
152	Draft Utility Report Submission	19 days 1		0 days	100%	Mon 2/9/19			Fri 20/9/19		Fri 20/9/19		2 days			
153	Draft Utility Report Comment & Approval	17 days 1		0 days	100%	Sat 21/9/19	Mon 7/10/19	Sat 21/9/19	Mon 7/10/19	Sat 21/9/19	Mon 7/10/19		2 days			
54	Final Utility Report Submission	52 days	52 days	0 days	100%	Mon 2/12/19	Wed 22/1/20	Mon 2/12/19	Wed 22/1/20	Mon 2/12/19	Wed 22/1/20	0 days	2 days			
55	Final Utility Report Submission Comment & Approval	38 days 0	0 days	38 days	0%	Thu 30/1/20	Mon 29/6/20	Thu 30/1/20	NA	Thu 30/1/20	Tue 1/3/22	610 days	2 days	154	•••	
56	Operational and Maintenace Manual (Draft) Submission	14 days 0	0 days	14 days	0%	Mon 19/12/22	Sun 1/1/23	NA	NA	Sat 25/2/23	Fri 10/3/23	68 days	2 days	1556		
57	Operational and Maintenace Manual (Final) Submission	32 days	0 days	32 days	0%	Wed 1/2/23	Sat 4/3/23	NA	NA	Mon 10/4/23	Thu 11/5/23	68 days	2 days	156FS+30 days		
158	As-built and As-fabrication Drawing Submission	0 days 0	0 days	0 days	0%	Thu 11/5/23	Thu 11/5/23	NA	NA	Thu 11/5/23	Thu 11/5/23	0 days	2 days	1558		
59	Site Investigation	561 days 1	167.98 days	393.02 days	0%	Sat 1/6/19	Sat 12/12/20	Sat 1/6/19	NA	Sat 1/6/19	Tue 1/3/22	444 days	;			•
160	Ground Investigation Proposal (Draft)	56 days	56 days	0 days	100%	Sat 1/6/19	Fri 26/7/19	Sat 1/6/19	Fri 26/7/19	Sat 1/6/19	Fri 26/7/19	0 days	1 days	4		
161	Submit & endorse by Gov. Depts and PM	6 days 6	6 days	0 days	100%	Sat 27/7/19	Thu 1/8/19	Sat 27/7/19	Thu 1/8/19	Sat 27/7/19	Thu 1/8/19	0 days	1 days	160		
162	Ground Investigation Proposal (Final)	30 days	0 days	30 days	0%	Tue 1/9/20	Wed 30/9/20	NA	NA	Mon 20/12/21	Tue 18/1/22	475 days	1 days	161		
163	Submit and endorse by Gov. Depts and PM	14 days 0	0 days	14 days	0%	Thu 1/10/20	Wed 14/10/20	NA	NA	Wed 19/1/22	Tue 1/2/22	475 days	1 days	162		
164	Supervise the SI Carry Out on Site	199 days 4	44 days	155 days	22%	Sat 10/8/19	Sat 24/10/20	Sat 10/8/19	NA	Sat 10/8/19	Tue 11/1/22	444 days	4 days	161		
165	Submit SI Report(Draft) for Comment	21 days	0 days	21 days	0%	Sun 25/10/20	Sat 14/11/20	NA	NA	Wed 12/1/22	Tue 1/2/22	444 days	1 days	164		
166	Submit and endorse SI Report(Final) by Project Manager	28 days	0 days	28 days	0%	Sun 15/11/20	Sat 12/12/20	NA	NA	Wed 2/2/22	Tue 1/3/22	444 days		165,163		
167	Lifts (LT3 & LT4), Staircase and Associated Works (Structure)	-	165.12 days	-	0%	Thu 12/9/19	Sun 15/11/20	Thu 12/9/19	NA	Thu 12/9/19	Thu 3/12/20	18 days				+
168	Prepare AIP Submission with E&M provision (Draft)	75 days 7		0 days	100%	Thu 12/9/19	Mon 25/11/19		Mon 25/11/		Mon 25/11/19	0 days				
169	Submit & endorse by PM and Statutory Authorities/Gov. Dept	21 days 2		0 days	100%	Tue 26/11/19	Mon 16/12/19		Mon	Tue 26/11/19	Mon 16/12/19	0 days	0.5 days	168		
170	Submit & endorse by Fivi and Statutory Authorities/Gov. Dept	21 days 2 22 days 2		0 days	100%	Fri 28/2/20		Fri 28/2/20	16/12/19	Fri 28/2/20	Fri 20/3/20		2 days	168		
				-												
71	Prepare AIP and ICE certification (Final)	25 days (	-	25 days	0%	Mon 29/6/20	Thu 23/7/20			Fri 10/7/20	Mon 3/8/20	11 days		168,169,170,44F		
172	Prepare DDA and ICE certification (Draft)	50 days (		50 days	0%	Thu 4/6/20	Thu 23/7/20			Mon 15/6/20	Mon 3/8/20	11 days		168,171FF		
173	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days 0		50 days	0%	Fri 24/7/20		NA		Tue 4/8/20	Tue 22/9/20	11 days		172		
174	Prepare DDA for and ICE certification (Final)	15 days 0	0 days	15 days	0%	Sat 12/9/20	Sat 26/9/20	NA	NA	Wed 30/9/20	Wed 14/10/20	18 days	1 days	173,145FF,171F		
tle· Re	ev.11 Prog with Progress	Summary			Inactive M	filestone 🔷		Duration-on	y 🗌		Start-only		C	Exter	nal Mi	lesto
	2-May-20	Project Summ			Inactive S			Manual Sur			Finish-only	-	3	Dead		
	Milestone	Inactive Task			Manual Ta	ASK		Manual Surr	mary		External Task	.5		Critic	al	

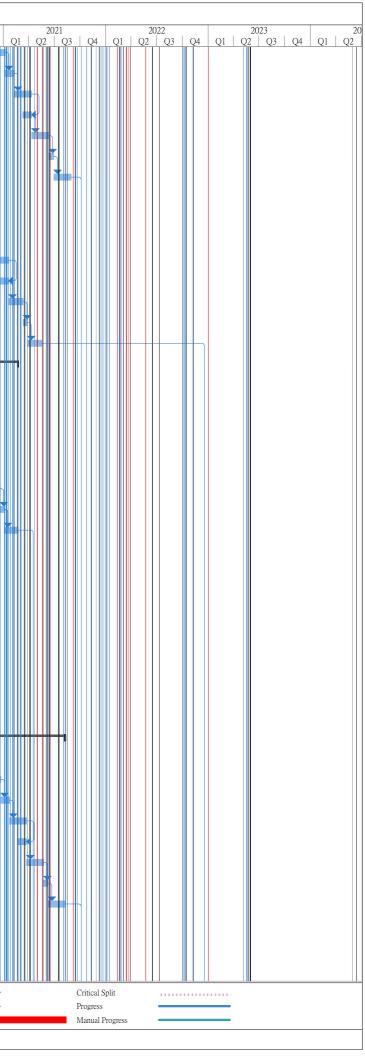


	ask Name		Duration	Actual	Remaining	Physical 0/-	Farly Stort		Actual Start			Late Finish	Total	TRA	Predecessors	20	)20
			Duration	Duration	Remaining Duration	Physical % Complete	Early Start						Total Slack			Q2	
75	Submit & endorse by PM and Sta		50 days	-	50 days	0%	Sun 27/9/20	Sun 15/11/20		NA	Thu 15/10/20	Thu 3/12/20	18 days	3 days	174		
.76	Noise barrier fronting to 4B5 at Rd	D3A & Bus Lay By (Section 5&9)		215.23 days		0%	Mon 4/11/19		Mon 4/11/19		Mon 4/11/19	Wed 7/10/20	1 day				▥
177	Prepare AIP Submission (Draft)		38 days	-	0 days	100%	Mon 4/11/19		Mon 4/11/19			Wed 11/12/19	0 days	2 days			
178	Submit & endorse by PM and Sta	atutory Authorities/Gov. Dept	167 days	162 days	5 days	97%	Thu 12/12/19	Tue 26/5/20	Thu 12/12/19	NA	Thu 12/12/19	Wed 27/5/20	1 day		177	-	h
179	Prepare AIP and ICE certification	n (Final)	56 days	31 days	25 days	55%	Wed 22/4/20	Tue 16/6/20	Wed 22/4/20	NA	Wed 22/4/20	Wed 17/6/20	1 day		178FF+21 days		M
180	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			
181	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		₩
182	Submit & endorse by Statutory A	uthorities/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		4
183	Prepare DDA for and ICE certifi	cation (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		
184	Submit & endorse by PM and Sta	atutory 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		
185	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				
186	Structure Prepare AIP and ICE c	ertification (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		
187	Submit & endorse by PM and Sta	atutory 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		
188	Prepare AIP and ICE certification	n (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		
189	Prepare DDA and ICE certificati	on (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		
190	Submit & endorse by PM and Sta	atutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Fri 15/1/21	Fri 5/3/21	NA	NA	Tue 26/1/21	Tue 16/3/21		0.5 days	189		
191	Prepare DDA and ICE certificati	· ·	25 days	-	25 days	0%	Sat 6/3/21	Tue 30/3/21		NA	Wed 17/3/21	Sat 10/4/21	11 days	· · ·	190		
192	Submit & endorse by PM and Sta		50 days		50 days	0%	Wed 31/3/21	Wed 19/5/21		NA	Sun 11/4/21	Sun 30/5/21	11 days		191		
193	Road D3 Bridge & Approach Ramp		-	358.08 days		0%	Thu 30/5/19		Thu 30/5/19		Thu 30/5/19	Thu 8/10/20	59 days	1 duy	4		Ш
193	D3 Bridge Substructure	,		358.08 days		0%	Thu 30/5/19		Thu 30/5/19		Thu 30/5/19	Thu 8/10/20	59 days		-		
194	C C	tion (Dunft)	-				Thu 30/5/19	Sat 3/8/19	Thu 30/5/19 Thu 30/5/19		Thu 30/5/19	Sat 3/8/19		2 dava	4		Ш
	Prepare AIP and ICE certifica		66 days		0 days	100%								3 days	4		
196	-	Statutory Authorities/Gov. Dept	15 days	-	0 days	100%	Mon 5/8/19		Mon 5/8/19	Mon 19/8/19		Mon 19/8/19	0 days	1 days	195,138		
197	Prepare AIP and ICE certifica		30 days		0 days	100%	Mon 23/12/19		Mon 23/12/19			Tue 21/1/20		0 days	195,196		
198	Prepare DDA and ICE certific	cation (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		
199	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		
200	Submit & endorse by Statutor	* *	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		1 days	198		
201	Prepare DDA for and ICE cer (Contractor Bear DDA Appro	tification (Include P02-BP2 Remedial Pile) val Risk)	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		h
202	Submit & endorse by PM and DDA Approval Risk)	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	i	1
203	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				Ħ
204	Prepare AIP and ICE certification	n (Draft)	101 days	101 days	0 days	100%	Thu 30/5/19	Sat 7/9/19	Thu 30/5/19	Sat 7/9/19	Thu 30/5/19	Sat 7/9/19	0 days	1 day			
205	Submit & endorse by PM and Sta	atutory Authorities/Gov. Dept	19 days	19 days	0 days	100%	Mon 9/9/19	Fri 27/9/19	Mon 9/9/19	Fri 27/9/19	Mon 9/9/19	Fri 27/9/19	0 days	1 day	204		
206	Prepare AIP and ICE certification	n (Final)	135 days	135 days	0 days	100%	Wed 20/11/19	Thu 2/4/20	Wed 20/11/19	Thu 2/4/20	Wed 20/11/19	Thu 2/4/20	0 days	3 days	205		
207	Prepare DDA and ICE certificati	on (Draft)	222 days	222 days	0 days	100%	Fri 19/7/19	Tue 25/2/20	Fri 19/7/19	Tue 25/2/20	Fri 19/7/19	Tue 25/2/20	0 days	3 days	205		
208	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		
209	Submit & endorse by Statutory A	uthorities/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		
210	Prepare DDA for and ICE certifi	-	21 days	-	21 days	0%	Tue 18/8/20	Mon 7/9/20		NA	Fri 4/9/20	Thu 24/9/20	17 days	-	208,206,209		
211	Submit & endorse by PM and Sta		50 days		50 days	0%	Tue 8/9/20	Tue 27/10/20		NA	Fri 25/9/20	Fri 13/11/20	17 days		210		
212	Prepare AIP (E&M works) and I		32 days	-	32 days	0%	Thu 2/7/20		NA	NA	Thu 27/8/20	Sun 27/9/20	56 days				
212	Submit & endorse by PM and Sta		62 days		62 days	0%	Mon 3/8/20	Sat 3/10/20		NA	Mon 28/9/20	Sat 28/11/20	56 days		212		
213	Prepare AIP (E&M works) and I		32 days	-	32 days	0%	Sun 4/10/20	Wed 4/11/20		NA	Sun 29/11/20	Wed 30/12/20	56 days		212		
214				-													
	Submit & endorse by PM and Sta		62 days	-	62 days	0%	Thu 5/11/20		NA	NA	Thu 31/12/20	Tue 2/3/21	56 days		214		
216	Prepare DDA (E&M works) and		32 days		32 days	0%	Sat 5/12/20	Tue 5/1/21	NA	NA	Sat 30/1/21	Tue 2/3/21	56 days		215FF		
217	Submit & endorse by PM and Sta		62 days	-	62 days	0%	Wed 6/1/21		NA	NA	Wed 3/3/21	Mon 3/5/21	56 days		216		
218	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	NA	Tue 4/5/21	Thu 20/5/21	56 days		217		
219	Submit & endorse by PM and Sta	atutory 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		
itle: Re	v.11 Prog with Progress	Task	Summary	. [		Inactive N	filestone 🔷		Duration-on	ly		Start-only		C	Ext	emal Mil	 .est
	2-May-20	Split	Project Sum			Inactive S				nmary Rollup 📕		Finish-only		3		adline	
		Milestone 🔶	Inactive Tas	K		Manual T	ask		Manual Sun	imary		External Task	S		Cri	tical	

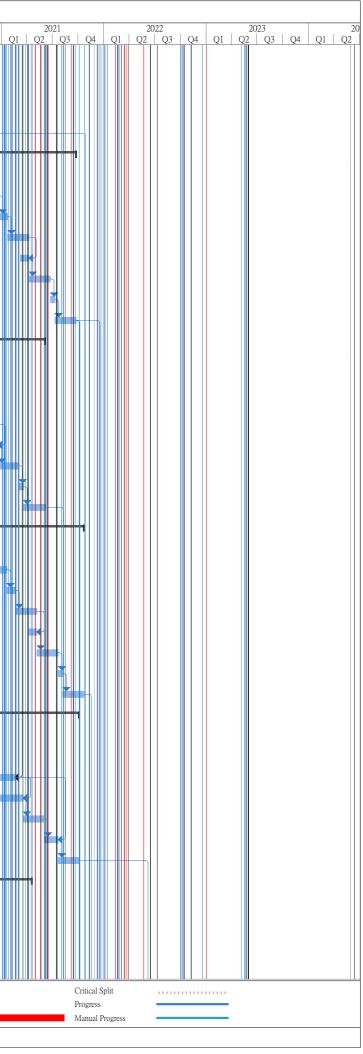
	1. 27			A	D · · ·	DI	<b>D</b> 1 ~		ract No. ED/		2	T	m	mr. :	D 1		0.00	
	ask Name		Duration	Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start			Late Finish	Total Slack	TRA	Predecessors		020 Q3	3
20	D3 North Approach Ramp (Structur			348.95 days		0%	Mon 3/6/19	Sat 4/7/20		NA	Mon 3/6/19	Thu 8/10/20	96 days					
221	Prepare AIP and ICE certification		51 days		0 days	100%	Mon 3/6/19	Tue 23/7/19		Tue 23/7/19		Tue 23/7/19		3 days	4			
222	Submit & endorse by PM and St	atutory 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			
223	Prepare AIP and ICE certification	n (Final)	14 days	14 days	0 days	100%	Tue 6/8/19	Thu 19/12/19	Tue 6/8/19	Thu 19/12/19	Tue 6/8/19	Thu 19/12/19	0 days	0 days	221,222			
24	Prepare DDA (Draft) with ICE of	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/Statut	ory 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 certif	cation (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/Statut	ory 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			⊢₽
.8	D3 North Approach Ramp (E&M V	Vorks)	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				<b>,</b>	₩
9	Prepare AIP (E&M works) and	CE certification (Draft)	32 days	0 days	32 days	0%	Thu 2/7/20	Sun 2/8/20	NA	NA	Fri 27/11/20	Mon 28/12/20	148 days	2 days				
0	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Mon 3/8/20	Sat 3/10/20	NA	NA	Tue 29/12/20	Sun 28/2/21	148 days	2 days	229			
1	Prepare AIP (E&M works) and	CE certification (Final)	32 days	0 days	32 days	0%	Sun 4/10/20	Wed 4/11/20	NA	NA	Mon 1/3/21	Thu 1/4/21	148 days	2 days	230			
32	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Thu 5/11/20	Tue 5/1/21	NA	NA	Fri 2/4/21	Wed 2/6/21	148 days	2 days	231			
3	Prepare DDA (E&M works) and	ICE certification (Draft)	32 days	0 days	32 days	0%	Sat 5/12/20	Tue 5/1/21	NA	NA	Sun 2/5/21	Wed 2/6/21	148 days	2 days	232FF			
4	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Wed 6/1/21	Mon 8/3/21	NA	NA	Thu 3/6/21	Tue 3/8/21	148 days	2 days	233			
5	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	NA	Wed 4/8/21	Fri 20/8/21	148 days	2 days	234			
5	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Fri 26/3/21	Wed 26/5/21		NA	Sat 21/8/21	Thu 21/10/21	148 days		235			
,	D3 South Approach Ramp	-		322.64 days		0%	Thu 30/5/19			NA	Thu 30/5/19	Tue 16/2/21	122 days			╞┷╟		Ц
	Prepare AIP and ICE certification	n (Draft)	96 days	_	0 days	100%	Thu 30/5/19	Mon 2/9/19		Mon 2/9/19		Mon 2/9/19	0 days					
_	Submit & endorse by PM and St		35 days		0 days	100%	Wed 25/9/19		Wed 25/9/19			Tue 29/10/19		1 day	238	_		
_	Prepare AIP Submission (Final)		76 days		0 days	100%	Fri 7/2/20	Mon 4/5/20	Fri 7/2/20	Mon 4/5/20		Mon 4/5/20		1 day	238,239			
	Prepare DDA and ICE certificat	on (Draft)	50 days		0 days	100%	Wed 1/4/20	Wed 20/5/20	Wed 1/4/20	Wed 20/5/20		Wed 20/5/20		5 days	240FF+15 days			
	Submit & endorse by PM and St		60 days	-	58 days	3%	Thu 21/5/20		Thu 21/5/20		Thu 21/5/20	Wed 20/3/20 Wed 18/11/20	122 days		238,241			
2		· ·		-	-													
3	Prepare DDA for and ICE certif		30 days		30 days	0%	Mon 20/7/20	Tue 18/8/20		NA	Thu 19/11/20	Fri 18/12/20	122 days		242,240FF+12			
	Submit & endorse by PM and St		60 days		60 days	0%	Wed 19/8/20	Sat 17/10/20		NA	Sat 19/12/20	Tue 16/2/21	122 days		243			
5	D3 South Approach Ramp (E&M V		392 days		392 days	0%	Sat 23/5/20		NA	NA	Wed 18/11/20	Tue 14/12/21	179 days					Π
5	Prepare AIP (E&M works) and		31 days		31 days	0%		Mon 22/6/20		NA	Wed 18/11/20		179 days		211			
7	Submit & endorse by PM and St	· ·	76 days	-	76 days	0%	Tue 23/6/20		NA	NA	Sat 19/12/20	Thu 4/3/21	179 days		246			
3	Prepare AIP (E&M works) and		31 days		31 days	0%	Mon 7/9/20	Wed 7/10/20		NA	Fri 5/3/21	Sun 4/4/21	179 days		247			
)	Submit & endorse by PM and St	atutory 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			
)	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	1 day	249FF			
	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Wed 23/12/20	Mon 8/3/21	NA	NA	Sun 20/6/21	Fri 3/9/21	179 days	1 day	250			
2	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	1 day	251			
;	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Sun 4/4/21	Fri 18/6/21	NA	NA	Thu 30/9/21	Tue 14/12/21	179 days	1 day	252			
4	Road D3 Underpass and Depressed	Road	823 days	236.99 days	586.01 days	0%	Thu 30/5/19	Sun 29/8/21	Thu 30/5/19	NA	Thu 30/5/19	Wed 11/1/23	500 days					H
5	Underpass (Structure)		486 days	320.41 days	165.59 days	0%	Thu 30/5/19	Sat 26/9/20	Thu 30/5/19	NA	Thu 30/5/19	Wed 2/12/20	67 days					Η
5	Prepare AIP and ICE certific	ation (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			
7	Submit & endorse by PM and	l Statutory Authorities/Gov. Dept	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	1 days	256			
;	Prepare AIP and ICE certific	ation (Final)	84 days	84 days	0 days	100%	Tue 14/1/20	Mon 6/4/20	Tue 14/1/20	Mon 6/4/20	Tue 14/1/20	Mon 6/4/20	0 days	2 days	256,257	╞─╟╴		$\ $
-	Prepare DDA (Draft) Prepara	tion	156 days	156 days	0 days	100%	Tue 3/9/19	Wed 5/2/20	Tue 3/9/19	Wed 5/2/20	Tue 3/9/19	Wed 5/2/20	0 days	3 days	256			
-	DDA (Draft) Submit & endo	rse 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	0.5 days	259			
	Prepare DDA for and ICE ce	rtification (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		Į
2	Submit & endorse by PM and	d 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			ł
3	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					┦
1	Prepare AIP (E&M works) a	nd ICE certification (Draft)	32 days	-	32 days	0%	Mon 5/10/20	Thu 5/11/20		NA	Tue 10/11/20	Fri 11/12/20	36 days	2 days		-		
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א Re√	v.11 Prog with Progress	Task Split	Summary Project Sum	mary		Inactive M			Duration-on Manual Sun	ıly 📃 nmary Rollup 📕		Start-only Finish-only		C ]		ternal M adline	ilestone	е
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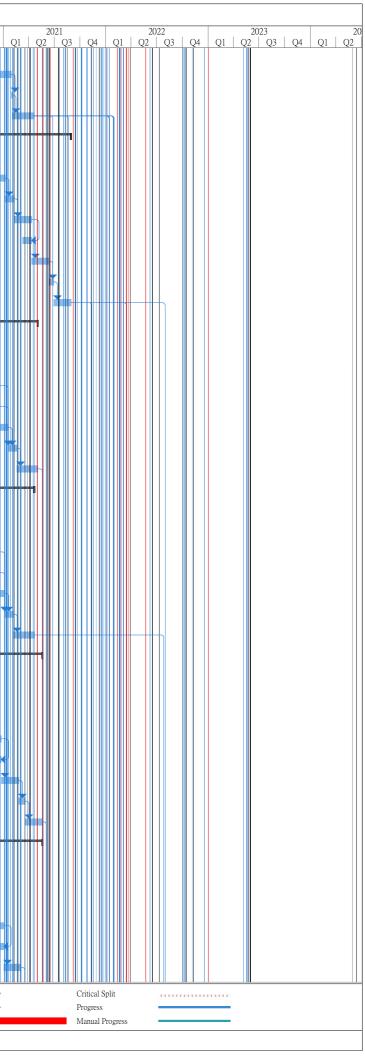
) T	ask Name	Duration A	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start			Late Finish	Total TRA	Predecessors	20	)20	
		E	Duration	Duration	Complete							Slack			Q3	Q
265	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days 0	) days	62 days	0%	Fri 6/11/20	Wed 6/1/21	NA	NA	Sat 12/12/20	Thu 11/2/21	36 days 2 days	264			
266	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			
267	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			
268	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	267FF			
269	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			
270	Prepare DDA (E&M works) and ICE certification (Final)	17 days 0	) 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 days	269			
271	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days 0	) days	62 days	0%	Tue 29/6/21	Sun 29/8/21	NA	NA	Wed 4/8/21	Mon 4/10/21	36 days 2 days	270			
272	Prepare AIP (E&M works) and Architectural Finishes of of Underpass (Road	31 days 0	) days	31 days	0%	Mon 3/8/20	Wed 2/9/20	NA	NA	Thu 31/3/22	Sat 30/4/22	605 days 1 day				
273	L14) and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	51 days 0	) days	51 days	0%	Thu 3/9/20	Fri 23/10/20	NA	NA	Sun 1/5/22	Mon 20/6/22	605 days 1 day	272			
274	Prepare AIP (E&M works )and Architectural Finishes of of Underpass (Road	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			
275	L14) and ICE certification (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept	74 days 0	) davs	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			
276	Prepare DDA (E&M works) and Architectural Finishes of of Underpass (Road	31 days 0		31 days	0%	Sun 20/12/20		NA	NA	Wed 17/8/22	Fri 16/9/22	605 days 1 day	275FF			
277	L14) and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept			51 days	0%	Wed 20/1/21	Thu 11/3/21			Sat 17/9/22	Sun 6/11/22	605 days 1 day	27511			
		51 days 0							NA		Mon 21/11/22					
278	Prepare DDA (E&M works) and Architectural Finishes of of Underpass (Road L14) and ICE certification (Final)	15 days 0		15 days	0%	Fri 12/3/21		NA	NA	Mon 7/11/22			277			
279	Submit & endorse by PM and Statutory Authorities/Gov. Dept	51 days 0	-	51 days	0%	Sat 27/3/21		NA	NA	Tue 22/11/22	Wed 11/1/23	605 days 1 day	278			
280	E&M Work for Pump House of Underpass D3	364 days 8	83.71 days	280.29 days	0%	Mon 24/2/20	Sun 21/2/21	Mon 24/2/20		Mon 24/2/20	Wed 18/8/21	178 days				П
281	Prepare AIP (E&M works) Submission (Draft)	11 days 1	11 days	0 days	0%	Mon 24/2/20	Thu 5/3/20	Mon 24/2/20	Thu 5/3/20	Mon 24/2/20	Thu 5/3/20	0 days 2 days				
282	Submit & endorse by PM and Statutory Authorities/Gov. Dept	160 days 7	78 days	82 days	49%	Fri 6/3/20	Wed 12/8/20	Fri 6/3/20	NA	Fri 6/3/20	Sat 15/8/20	3 days 2 days	281			
283	Prepare AIP (E&M works) and ICE certification (Final)	21 days 0	) days	21 days	0%	Thu 13/8/20	Wed 2/9/20	NA	NA	Sun 16/8/20	Sat 5/9/20	3 days 2 days	282,44FF+12 da			1
284	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			í-
285	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	Sat 3/10/20	Sun 1/11/20	3 days 2 days	284FF+7 days			
286	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			
287	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			
288	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			
289	Depressed Road (North) Structure	463 days 3	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				
290	Prepare AIP and ICE certification (Draft)	65 days 6	55 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			
291	Submit & endorse by PM and Statutory Authorities/Gov. Dept	33 days 3	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			
292	Prepare AIP and ICE certification (Final)	44 days 4	14 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			
293	Prepare DDA and ICE certification (Draft)	57 days 5	57 davs	0 days	100%	Tue 24/9/19	Tue 19/11/19	Tue 24/9/19	Tue 19/11/19	) Tue 24/9/19	Tue 19/11/19	0 days 5 days	290			
294	Submit & endorse by PM	17 days 1	-	0 days	100%	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19			Thu 5/12/19	0 days 1 day	293			
295	Submit & endorse by Statutory Authorities/Gov. Dept	20 days 2		0 days	100%	Wed 19/2/20	Mon 9/3/20		Mon 9/3/20		Mon 9/3/20	0 days 1 day	293			
296	Prepare DDA for and ICE certification (Final)	30 days 0		30 days	0%	Sat 23/5/20	Sun 21/6/20		NA	Sat 11/2/23	Sun 12/3/23	994 days 3 days	294,292FF,295			
	-															
297	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days 0		60 days	0%	Mon 22/6/20	Thu 20/8/20		NA	Mon 13/3/23	Thu 11/5/23	994 days 5 days	296			
298	Depressed Road (North) E&M Works	322 days 0	-	322 days	0%	Mon 21/9/20		NA	NA	Tue 17/11/20	Mon 4/10/21	57 days				Π
299	Prepare AIP (E&M works) and ICE certification (Draft)	31 days 0		31 days	0%	Mon 21/9/20	Wed 21/10/20		NA	Tue 17/11/20	Thu 17/12/20	57 days 1 day				Æ
300	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days 0	) days	61 days	0%	Thu 22/10/20	Mon 21/12/20		NA	Fri 18/12/20	Tue 16/2/21	57 days 1 day	299			
301	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			
302	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			
303	Prepare DDA (E&M works) and ICE certification (Draft)	31 days 0	) days	31 days	0%	Sun 21/2/21	Tue 23/3/21	NA	NA	Mon 19/4/21	Wed 19/5/21	57 days 1 day	302FF			
304	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days 0	) days	61 days	0%	Wed 24/3/21	Sun 23/5/21	NA	NA	Thu 20/5/21	Mon 19/7/21	57 days 1 day	303			
305	Prepare DDA (E&M works) and ICE certification (Final)	16 days 0	) days	16 days	0%	Mon 24/5/21	Tue 8/6/21	NA	NA	Tue 20/7/21	Wed 4/8/21	57 days 1 day	304			
306	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days 0	) days	61 days	0%	Wed 9/6/21	Sun 8/8/21	NA	NA	Thu 5/8/21	Mon 4/10/21	57 days 1 day	305			
307	Depressed Road (South) and Substructure of Elevated Landscape Deck	463 days 3	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			┿┿╄╼┫	
308	Prepare AIP and ICE certification (Draft)	54 days 5	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				
309	Submit & endorse by PM and Statutory Authorities/Gov. Dept	81 days 8	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			
			-							`						
	v.11 Prog with Progress Task Split	Summary Project Summa	lary		Inactive M			Duration-or Manual Sur	ıly 📃 nmary Rollup 📕		Start-only Finish-only	C 3		ernal Mil dline	estone	
as of 22	May-20 Milestone	Inactive Task			Manual T			Manual Sur			External Tasl		Crit			
									e 7 of 36							_



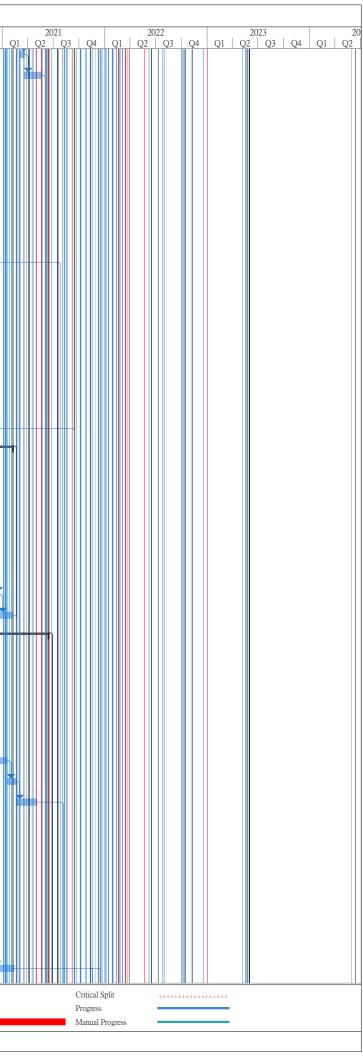
			-		-	-			tract No. ED/			-	-		-			
Ta	ask Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	202 02		
310	Prepare AIP and ICE (certification	(Final)	270 days	222 days	48 days	82%	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		ŧŤ	T
311	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	hH		
312	Submit & endorse by PM and Statu	tory 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 days			
313	Prepare DDA for and ICE certificat	ion (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		-	K	
314	Submit & endorse by PM and Statu	tory 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	-		╉
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			-		r
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		-		¢
317	Submit & endorse by PM and Statu	tory 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			1
518	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 Statu	tory 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	-		
20	Prepare DDA (E&M works) and IC	E 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	-		
21	Submit & endorse by PM and Statu	tory 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	-		
22	Prepare DDA (E&M works) and IC	E 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	-		
23	Submit & endorse by PM and Statu	tory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Sat 10/7/21	Thu 23/9/21	NA	NA	Wed 21/7/21	Mon 4/10/21	11 days	1 day	322	-		
24	Road Works (Civil Works)			196.01 days	-	0%	Tue 13/8/19	Fri 4/6/21	Tue 13/8/19	NA	Tue 13/8/19	Tue 14/12/21	193 days	-				┛
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		Tue 8/10/19		1 day	293SS+75 days	-		
26	Submit & endorse by PM		21 days	_	0 days	100%	Wed 9/10/19		Wed 9/10/19			Tue 29/10/19		-	325	-		
	-	anitia/Car. Dant													325	-		
.7	Submit & endorse by Statutory Aut	_	24 days	-	0 days	100%	Wed 30/10/19				Wed 30/10/19	Fri 22/11/19		1 day				
8	Prepare AIP for At-grade Road D3		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	326FS+12 days,327,44FF+			
9	Prepare DDA for At-grade Road D2		210 days		210 days	0%	Sat 23/5/20	Fri 18/12/20		NA	Wed 2/12/20	Tue 29/6/21	193 days	-	325FS+100 days,328FF+6			1
)	Submit & endorse by PM and Statu		75 days		75 days	0%	Sat 19/12/20		NA	NA	Wed 30/6/21	Sun 12/9/21			329			
1	Prepare DDA for At-grade Road D2		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	-	330			
2	Submit & endorse by PM and Statu	tory 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			
3	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					
ŀ	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				
5	Submit & endorse by PM and Statu	tory 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			
5	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			
7	Submit & endorse by PM and Statu	tory 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			
8	Prepare DDA (E&M works) and IC	E 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	-		
9	Submit & endorse by PM and Statu	tory 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	-		
0	Prepare DDA (E&M works) and IC	E 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	Submit & endorse by PM and Statu	tory 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	-		
2	Road L12d Works (Roadworks)		791 days	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			┝╋╋	₩₩	-
3	Prepare AIP for Road L12d Submis	sion (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	-		
4	Submit & endorse by PM and Statu	tory Authorities/Gov. Dept	377 days	227 days	150 days	60%	Wed 9/10/19	Mon 19/10/20	Wed 9/10/19	NA	Wed 9/10/19	Tue 15/3/22	512 days					
5		e E&M Provision Works) and ICE certification	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	-		
16		de E&M Provision Works) and ICE certification	1 120 days	0 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	-		
7	(Draft) Submit & endorse by PM and Statu	tory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Fri 19/3/21	Tue 1/6/21	NA	NA	Sat 13/8/22	Wed 26/10/22	512 days	0.5 days	days,345FF+30 346	-		
8	Prepare DDA for Road L12d (Inclu	de E&M Provision Works) and ICE certification	50 days	0 days	50 days	0%	Wed 2/6/21	Wed 21/7/21	NA	NA	Thu 27/10/22	Thu 15/12/22	512 days	0 days	347,345FF	-		
9	(Final) Submit & endorse by PM and Statu		75 days		75 days	0%	Thu 22/7/21	Mon 4/10/21		NA	Fri 16/12/22	Tue 28/2/23	512 days		348	-		
)	Road Lighting of Road D3 (E&M)			129.19 days		0%	Mon 6/1/20	Sun 18/4/21		NA	Mon 6/1/20	Sun 1/8/21	105 days					
1	Prepare AIP (E&M works) Submiss	ion (Draft)	30 days	_	0 days	100%	Mon 6/1/20	Tue 4/2/20	Mon 6/1/20	Tue 4/2/20	Mon 6/1/20	Tue 4/2/20	0 days					
2	Submit & endorse by Statutory Aut			108 days	82 days		Wed 5/2/20	Wed 12/8/20		NA	Wed 5/2/20	Wed 25/11/20	105 days		351	-		
		_		-		57%										_		
3	Prepare AIP (E&M works) and ICE		32 days		32 days	0%	Thu 13/8/20	Sun 13/9/20		NA	Thu 26/11/20	Sun 27/12/20	105 days	-	352	_		Ì
1	Submit & endorse by PM and Statu	tory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Mon 14/9/20	Thu 12/11/20	NA	NA	Mon 28/12/20	Thu 25/2/21	105 days	2 days	353			
e: Rev	V. I I Prog with Progress		Summary			Inactive M			Duration-on	-		Start-only		C		emal Mile	stone	
	-May-20		Project Sum Inactive Tas			Inactive S Manual Ta			<ul> <li>Manual Sun</li> <li>Manual Sun</li> </ul>	umary Rollup 💼 umary 📲		<ul> <li>Finish-only</li> <li>External Task</li> </ul>	s	3	Dea	idline ical		
		Villestone V	inactive ras	ik –		ivitariata 10	LOR .		intanata oun	linka y		<ul> <li>External rash</li> </ul>			Cin	.cu		



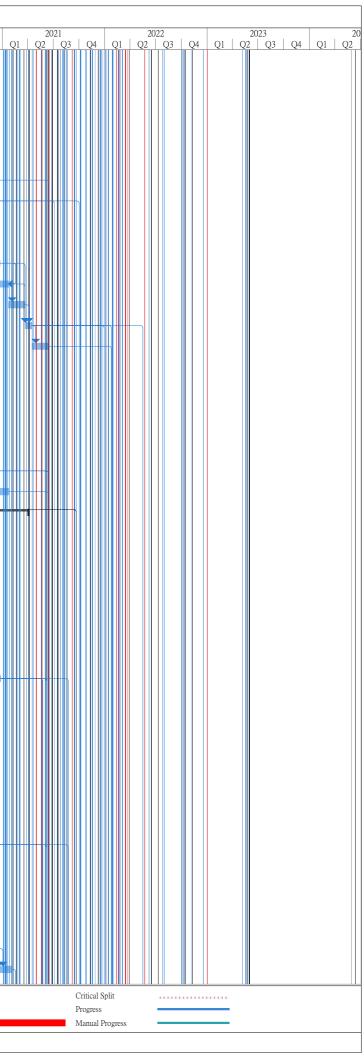
									ract No. ED/									
D Ta	sk Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	202 Q2		04
355	Prepare DDA (E&M works) and	nd ICE certification (Draft)	32 days	0 days	32 days	0%	Mon 12/10/20	Thu 12/11/20	NA	NA	Mon 25/1/21	Thu 25/2/21	105 days	2 days	354FF		Ĩ	Ř
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	nd 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			
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				ľ	
360	Prepare AIP (E&M works) and	d 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	d ICE certification (Final)	32 days	0 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	361			
363	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	Mon 7/6/21	Sat 7/8/21	119 days	2 days	362			
364	Prepare DDA (E&M works) at	nd ICE certification (Draft)	32 days	0 days	32 days	0%	Wed 10/3/21	Sat 10/4/21	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	0 days	62 days	0%	Sun 11/4/21	Fri 11/6/21	NA	NA	Sun 8/8/21	Fri 8/10/21	119 days	2 days	364			
366	Prepare DDA (E&M works) as	nd ICE certification (Final)	17 days	0 days	17 days	0%	Sat 12/6/21	Mon 28/6/21	NA	NA	Sat 9/10/21	Mon 25/10/21	119 days	2 days	365			
367	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Tue 29/6/21	Sun 29/8/21	NA	NA	Tue 26/10/21	Sun 26/12/21	119 days	2 days	366			
368	Roadworks other than at-grade Ro	oad 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		ks other than at-grade Road D3 and Road L12d	36 days		0 days	100%	Mon 2/9/19	Mon 7/10/19		Mon 7/10/19		Mon 7/10/19		0.5 days				
370	(Draft)	Statutory Authorities/Gov. Dept		228 days	60 days	79%	Tue 8/10/19	Tue 21/7/20		NA	Tue 8/10/19	Tue 11/8/20		0.5 days	369			
371	-	ks other than at-grade Road D3 and Road L12d	75 days	-	75 days	0%	Wed 22/7/20	Sun 4/10/20		NA	Wed 12/8/20	Sun 25/10/20			370,44FF+12			
372	(Final)	orks other than at-grade Road D3 and Road L12d	95 days		95 days	0%	Sat 1/8/20	Tue 3/11/20		NA	Sat 22/8/20	Tue 24/11/20	21 days		days 371FF+30 days			
373	(Draft)	Statutory Authorities/Gov. Dept	75 days	· ·	75 days	0%	Wed 4/11/20	Sun 17/1/21		NA	Wed 25/11/20	Sun 7/2/21		-	372			TĻ.
374		orks other than at-grade Road D3 and Road L12d	30 days		30 days	0%	Mon 18/1/21	Tue 16/2/21			Mon 8/2/21	Tue 9/3/21			371,372,373			
375	(Final)	Statutory Authorities/Gov. Dept		· ·	75 days	0%	Wed 17/2/21		NA	NA	Wed 10/3/21	Sun 23/5/21		0.5 days				
	-		75 days	-											574			
376	_	nd Saltwater Pumping Station (Civil Works)	-	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		Sewerage and Saltwater Pumping Station (Draft)	46 days	-	0 days	100%	Wed 4/3/20	Sat 18/4/20	Wed 4/3/20		Wed 4/3/20	Sat 18/4/20	0 days		085			
378	-	Statutory Authorities/Gov. Dept	82 days	-	49 days	40%	Sat 18/4/20		Sat 18/4/20	NA	Sat 18/4/20	Mon 23/5/22	684 days		377			
379		Sewerage and Saltwater Pumping Station (Final)	75 days	· ·	75 days	0%	Thu 9/7/20	Mon 21/9/20			Tue 24/5/22	Sat 6/8/22			378			
380		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		379FF+15 days			
381		Statutory Authorities/Gov. Dept	75 days		75 days	0%		Tue 5/1/21				Fri 4/11/22	668 days	-				
382	DDA for Roadworks - EVA to	Sewerage and Saltwater Pumping Station (Final)	30 days	0 days	30 days	0%	Wed 6/1/21		NA	NA	Sat 5/11/22	Sun 4/12/22	668 days	0.5 days	379,380,381			
383	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	75 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	382			
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					T
385	Prepare AIP (E&M works) and	d 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			h	
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		Ĭ	
387	Prepare AIP (E&M works) and	d 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			ĥ
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			
389	Prepare DDA (E&M works) and	nd 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			
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			
391	Prepare DDA (E&M works) and	nd ICE certification (Final)	23 days	0 days	23 days	0%	Wed 24/2/21	Thu 18/3/21	NA	NA	Sun 28/2/21	Mon 22/3/21	4 days	2 days	390			
392	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Fri 19/3/21	Wed 19/5/21	NA	NA	Tue 23/3/21	Sun 23/5/21	4 days	2 days	391			
393	Roadworks other than at-grade Ro	oad D3 and Road L12d (E&M Works)	322 days	0 days	322 days	0%	Thu 2/7/20	Wed 19/5/21	NA	NA	Mon 6/7/20	Sun 23/5/21	4 days				₽₩₩₽₽ <mark>₽</mark> ₩	
394	Prepare AIP (E&M works) and	d ICE certification (Draft)	31 days	0 days	31 days	0%	Thu 2/7/20	Sat 1/8/20	NA	NA	Mon 6/7/20	Wed 5/8/20	4 days	1 day				
395	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Sun 2/8/20	Thu 1/10/20	NA	NA	Thu 6/8/20	Mon 5/10/20	4 days	1 day	394			
396	Prepare AIP (E&M works) and	d 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	nd 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			
		Task	C			Taxada a S	filoston:		Durnet			Stand of 1		<u>г</u>				
	.11 Prog with Progress	Task Split	Summary Project Sum	mary		Inactive N			Duration-on Manual Sun	ıly 📃 nmary Rollup 💼		Start-only Finish-only		C ]		rmal Mile dline	estone	¢ ا
as 01 22-	-May-20	Milestone 🔶	Inactive Tas			Manual T	🛏		Manual Sun			External Task				ical		-



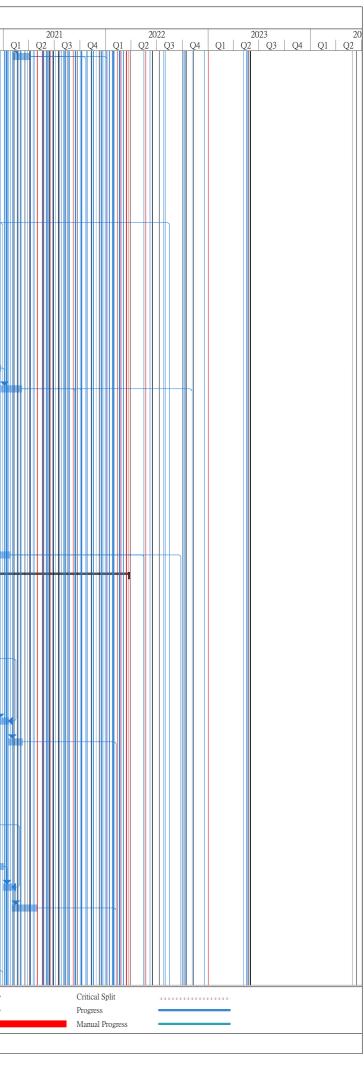
) ]	Fask Name		Duration	Actual	Remaining	Physical %	Early Start		ract No. ED/	Actual Finish		Late Finish	Total	TRA	Predecessors	2	020
400		d ICE partification (Ein-1)		Duration	Duration	Complete 0%			NA	NA	Mon 8/3/21		Slack	1 day	399	Q2	
	Prepare DDA (E&M works) and		16 days		16 days		Thu 4/3/21	Fri 19/3/21				Tue 23/3/21	4 days				
)1		Statutory Authorities/Gov. Dept	61 days		61 days	0%	Sat 20/3/21	Wed 19/5/21		NA	Wed 24/3/21	Sun 23/5/21	4 days	1 day	400		
12	DCS Seawater & Intake Box Culv				174.59 days	0%	Tue 13/8/19	Thu 3/12/20		NA	Tue 13/8/19	Tue 3/8/21	243 days				
3	Prepare AIP Subm with ICE co	ertification (Draft)	165 days	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		
15	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	<b>■</b> h	
)6	Prepare AIP and ICE certificat	ion (Final)	0 days	0 days	0 days	100%	Thu 23/4/20	Mon 27/4/20	Thu 23/4/20	Mon 27/4/20	Thu 23/4/20	Mon 27/4/20	0 days	1 days	403,405,404	♦ 27	4
07	Prepare DDA and ICE certific	ation	80 days	0 days	80 days	0%	Sat 23/5/20	Mon 10/8/20	NA	NA	Thu 21/1/21	Sat 10/4/21	243 days	5 days	403SS,406FF+	1:	
08	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Tue 11/8/20	Tue 29/9/20	NA	NA	Sun 11/4/21	Sun 30/5/21	243 days	3 days	407		
-09	Prepare DDA for and ICE cert	ification (Final)	15 days	0 days	15 days	0%	Wed 30/9/20	Wed 14/10/20	NA	NA	Mon 31/5/21	Mon 14/6/21	243 days	a 1 day	408		
410	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Thu 15/10/20	Thu 3/12/20	NA	NA	Tue 15/6/21	Tue 3/8/21	243 days	2 days	409		
411	Seawater & Intake Box Culverts I	Diversion	248 days	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				
412	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		╞═╢╌	
413	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		
414	Prepare AIP and ICE certificat	ion (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	-	
415	Prepare DDA and ICE certific	ation	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+	5	
416	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		
417	Prepare DDA for and ICE cert		15 days		15 days	0%	Thu 1/10/20	Thu 15/10/20	NA	NA	Tue 3/8/21	Tue 17/8/21	306 days		416		
418	_	Statutory Authorities/Gov. Dept	50 days		50 days	0%	Fri 16/10/20		NA	NA	Wed 18/8/21	Wed 6/10/21	306 days		417		
419	Rising Main (Sewerage Works)	Statutory radionics/ Sov. Dop	402 days		268 days	0%	Thu 2/1/20	Sat 6/2/21	Thu 2/1/20	NA	Thu 2/1/20	Sun 7/3/21	29 days	2 au 95	117		
420	Prepare AIP (Draft)		35 days		0 days	100%	Thu 2/1/20	Wed 5/2/20	Thu 2/1/20	Wed 5/2/20	Thu 2/1/20	Wed 5/2/20	-	3 days	4		
															4		
421	Submit & endorse by PM		19 days	-	0 days	100%	Thu 6/2/20	Mon 24/2/20	Thu 6/2/20	Mon 24/2/20		Mon 24/2/20	0 days	1 day	120		
422	-	Statutory Authorities/Gov. Dept	56 days		0 days	100%	Thu 27/2/20	Fri 22/5/20			Thu 27/2/20	Fri 22/5/20	0 days	2 days	420		
423	Prepare AIP and ICE certificat		75 days		75 days	0%	Thu 2/7/20	Mon 14/9/20		NA	Fri 31/7/20	Tue 13/10/20	29 days	-	420,422,421		
424	Prepare DDA and ICE certification	ation (Draft)	30 days	0 days	30 days	0%	Tue 15/9/20	Wed 14/10/20	NA	NA	Wed 14/10/20	Thu 12/11/20	29 days	4 days	420SS,423		
125	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Thu 15/10/20	Thu 3/12/20	NA	NA	Fri 13/11/20	Fri 1/1/21	29 days	3 days	424,420		
126	Prepare DDA and ICE certification	ation (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		
427	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		
428	Stormwater, Sewage, Salt Water a Road	nd Fresh Water Works for Underpass and Depressed	641 days	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				
429		Underpass and Depressed Roads and ICE certification	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			
430	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 days	429		
431	Submit & endorse by Statutory	Authorities/Gov. Dept	139 days	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		
432	Prepare AIP and ICE certificat	ion (Final)	150 days	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 days	;	
433	Prepare DDA and ICE certific	ation (Draft)	150 days	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+30	d 🕇	
434	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 days	433		
435	Prepare DDA and ICE certific	ration (Final)	31 days	0 days	31 days	0%	Mon 18/1/21	Wed 17/2/21	NA	NA	Mon 15/3/21	Wed 14/4/21	56 days	1 day	434		
436	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Thu 18/2/21	Mon 3/5/21	NA	NA	Thu 15/4/21	Mon 28/6/21	56 days	5 days	435		
437	-	IP for Underpass, Depressed Road and ICE	51 days	-	0 days	100%	Tue 8/10/19	Wed 27/11/19		Wed	Tue 8/10/19	Wed 27/11/19					
438	certification (Draft) Submit & endorse by PM		26 days		0 days	100%	Thu 28/11/19	Mon 23/12/19		27/11/19		Mon 23/12/19		0.5 days	437		
439	Submit & endorse by Statutory	Authorities/Gov Dent	14 days		0 days	100%	Wed 8/4/20	Fri 24/4/20	Wed 8/4/20		Wed 8/4/20	Fri 24/4/20	0 days	3 days	437		
140		-											-	0 days			
		epressed Road and ICE certification (Final)	22 days		0 days	100%	Sat 25/4/20	Sat 16/5/20	Sat 25/4/20		Sat 25/4/20	Sat 16/5/20			438,439		
141		Depressed Road and ICE certification (Draft)	90 days		90 days	0%	Sun 17/5/20		NA	NA	Fri 2/10/20	Wed 30/12/20	138 days		440		
142	-	Statutory Authorities/Gov. Dept	75 days		75 days	0%	Sat 15/8/20	Wed 28/10/20		NA	Thu 31/12/20	Mon 15/3/21		0.5 days			
443		Depressed Road and ICE certification (Final)	30 days	0 days	30 days	0%	Thu 29/10/20	Fri 27/11/20		NA	Tue 16/3/21	Wed 14/4/21	138 days	-	442		
444	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		
itle: Ro	v.11 Prog with Progress	Task	Summary		1	Inactive N	filestone 🔷		Duration-on	ly 🛄		Start-only		C	Ex	ternal Mi	ieston
	2-May-20		Project Sumr		1	Inactive S	-		-	nmary Rollup 💼		Finish-only		3		adline	
		Milestone •	Inactive Task	ĸ		Manual T	ask		Manual Sun	nmary		External Tasl	S		Cr	itical	



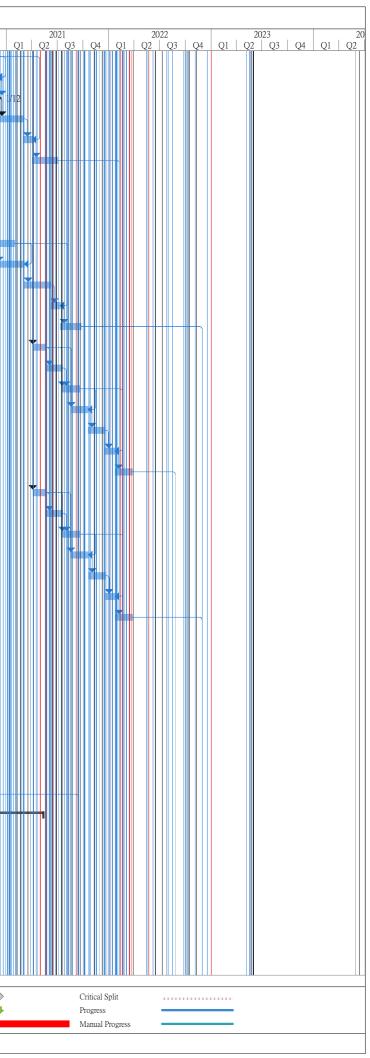
) Ta	sk Name		Durotion	Actual	Remaining	Physical #	Farly Ctort			2018/01 KT Actual Finish		Late Finish	Totol	TPA	Predecessor	20	020
) 1a	sk Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	Q2	
145	AIP for Water Works (Sewerag	ge Works of Gravity Sewers)	88 days	88 days	0 days	100%	Fri 13/9/19	Mon 9/12/19	Fri 13/9/19	Mon 9/12/19	Fri 13/9/19	Mon 9/12/19	0 days	1 day			
46	Submit & endorse by PM		19 days	19 days	0 days	100%	Mon 23/12/19	Fri 10/1/20	Mon 23/12/19	Fri 10/1/20	Mon 23/12/19	Fri 10/1/20	0 days	0.5 days	445		
47	Submit & endorse by Statutory	Authorities/Gov. Dept	18 days	18 days	0 days	100%	Fri 21/2/20	Mon 9/3/20	Fri 21/2/20	Mon 9/3/20	Fri 21/2/20	Mon 9/3/20	0 days	0.5 days	445		
48	AIP for Water Works (Sewerag	ge Works of Gravity Sewers) (Final)	11 days	11 days	0 days	100%	Tue 10/3/20	Fri 20/3/20	Tue 10/3/20	Fri 20/3/20	Tue 10/3/20	Fri 20/3/20	0 days	0.5 days	445,446,447		
49	DDA for Water Works (Sewer	rage Works of Gravity Sewers)	60 days	0 days	60 days	0%	Sat 23/5/20	Tue 21/7/20	NA	NA	Wed 16/12/20	Sat 13/2/21	207 days	1 day	445		
450	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Wed 22/7/20	Wed 9/9/20	NA	NA	Sun 14/2/21	Sun 4/4/21	207 days	0.5 days	449		
451	DDA for Water Works - (Sew	erage Works of Gravity Sewers)	35 days	0 days	35 days	0%	Thu 10/9/20	Wed 14/10/20	NA	NA	Mon 5/4/21	Sun 9/5/21	207 days	1 day	448,449,450		
452	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	50 days		50 days	0%	Thu 15/10/20	Thu 3/12/20	NA	NA	Mon 10/5/21	Mon 28/6/21		0.5 days	451		
453	-	Vaterfront Promenade and at grade Open Space (Draft			80 days	0%	Mon 6/7/20	Wed 23/9/20		NA	Mon 20/7/20	Wed 7/10/20	14 days		445		₩
154		Statutory Authorities/Gov. Dept	60 days		60 days	0%	Thu 24/9/20	Sun 22/11/20		NA	Thu 8/10/20	Sun 6/12/20		0.5 days			
	-	-															
455		Vaterfront Promenade and at grade Open Space (Final)			30 days	0%		Tue 22/12/20		NA	Mon 7/12/20	Tue 5/1/21					
456	DDA for Stormwater Works - ' (Draft)	Waterfront Promenade and at grade Open Space	120 days	0 days	120 days	0%	Thu 24/9/20	Thu 21/1/21	NA	NA	Thu 8/10/20	Thu 4/2/21	14 days	1 day	453,455FF+30 days		
457	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Fri 22/1/21	Mon 22/3/21	NA	NA	Fri 5/2/21	Mon 5/4/21	14 days	0.5 days	456		
458	DDA for Stormwater Works - (Final)	Waterfront Promenade and at grade Open Space	24 days	0 days	24 days	0%	Tue 23/3/21	Thu 15/4/21	NA	NA	Tue 6/4/21	Thu 29/4/21	14 days	1 day	455,456,457		
459	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Fri 16/4/21	Mon 14/6/21	NA	NA	Fri 30/4/21	Mon 28/6/21	14 days	0.5 days	458		
460	AIP for Water Works - Remain	ning Stormwater works (Draft)	0 days	0 days	0 days	100%	Mon 2/3/20	Thu 9/4/20	Mon 2/3/20	Thu 9/4/20	Mon 2/3/20	Thu 9/4/20	0 days	1 day	453	94	
461	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	27 days	27 days	0 days	100%	Fri 10/4/20	Wed 6/5/20	Fri 10/4/20	Wed 6/5/20	Fri 10/4/20	Wed 6/5/20	0 days	0.5 days	460		
462	AIP for Water Works - Remain	ning Stormwater works (Final)	1 day	1 day	0 days	100%	Wed 29/4/20	Thu 7/5/20	Wed 29/4/20	Thu 7/5/20	Wed 29/4/20	Thu 7/5/20	0 days	0.5 days	460,461		
463	DDA for Water Works - Rema	ining Stormwater works (Draft)	90 days	0 days	90 days	0%	Tue 2/6/20	Sun 30/8/20	NA	NA	Fri 6/11/20	Wed 3/2/21	157 days	1 day	460		
464	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Mon 31/8/20	Thu 29/10/20	NA	NA	Thu 4/2/21	Sun 4/4/21	157 days	0.5 days	463		
165	DDA for Water Works - Rema	ining Stormwater works (Final)	25 days		25 days	0%	Fri 30/10/20	Mon 23/11/20	NA	NA	Mon 5/4/21	Thu 29/4/21	157 days	1 dav	462,463,464		
466		Statutory Authorities/Gov. Dept	60 days		60 days	0%	Tue 24/11/20		NA	NA	Fri 30/4/21	Mon 28/6/21		0.5 days			
467	-	nd Fresh Water Works for Bridge B3		132.36 days	-	0%	Tue 22/10/19	Sat 3/4/21	Tue 22/10/19		Tue 22/10/19	Wed 6/10/21	186 days	-	-05		
	, , ,	2															
468	Fresh and Salt Water Works Al	IP for Bridge D3 (Draft)	37 days		0 days	100%	Tue 22/10/19	Wed 27/11/19				Wed 27/11/19			1.40		
69	Submit & endorse by PM		22 days		0 days	100%	Thu 28/11/19	Thu 19/12/19				Thu 19/12/19	0 days	0.5 days	468		
170	Submit & endorse by Statutory	-	26 days	-	0 days	100%	Thu 9/4/20	Mon 4/5/20		Mon 4/5/20		Mon 4/5/20	-	0.5 days			
471	Prepare AIP for Bridge D3 and	ICE certification (Final)	3 days	3 days	0 days	100%	Mon 4/5/20	Wed 6/5/20	Mon 4/5/20	Wed 6/5/20	Mon 4/5/20	Wed 6/5/20		0 days	468,469,470FF+		
472	Prepare DDA for Bridge D3 and	nd ICE certification (Draft)	60 days	0 days	60 days	0%	Mon 8/6/20	Thu 6/8/20	NA	NA	Sat 19/9/20	Tue 17/11/20	103 days	1 day	471FF+15 days,		
473	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	55 days	0 days	55 days	0%	Fri 7/8/20	Wed 30/9/20	NA	NA	Wed 18/11/20	Mon 11/1/21	103 days	0.5 days	472		
474	Prepare DDA for Dridge D3 an	nd ICE certification (Final)	30 days	0 days	30 days	0%	Thu 1/10/20	Fri 30/10/20	NA	NA	Tue 12/1/21	Wed 10/2/21	103 days	0 days	473		
475	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	55 days	0 days	55 days	0%	Sat 31/10/20	Thu 24/12/20	NA	NA	Thu 11/2/21	Tue 6/4/21	103 days	0 days	474		
476	Stormwater Works AIP for Bri	dge D3 and ICE certification (Draft)	20 days	20 days	0 days	100%	Thu 23/1/20	Tue 11/2/20	Thu 23/1/20	Tue 11/2/20	Thu 23/1/20	Tue 11/2/20	0 days	1 day	468SS		
477	Submit & endorse by PM		9 days	9 days	0 days	100%	Wed 12/2/20	Thu 20/2/20	Wed 12/2/20	Thu 20/2/20	Wed 12/2/20	Thu 20/2/20	0 days	0.5 days	476		
478	Submit & endorse by Statutory	Authorities/Gov. Dept	28 days	28 days	0 days	100%	Wed 19/2/20	Tue 17/3/20	Wed 19/2/20	Tue 17/3/20	Wed 19/2/20	Tue 17/3/20	0 days	3 days			
479	Stormwater Works AIP for Bri	dge D3 and ICE certification (Final)	26 days	26 days	0 days	100%	Mon 2/3/20	Fri 27/3/20	Mon 2/3/20	Fri 27/3/20	Mon 2/3/20	Fri 27/3/20	0 days	1 day	477,476		
480	Prepare DDA for Bridge D3 an	d ICE certification (Draft)	65 days	0 days	65 days	0%	Sat 23/5/20	Sun 26/7/20	NA	NA	Fri 9/10/20	Sat 12/12/20	139 days	1 day	476,479SS,478,		
481		Statutory Authorities/Gov. Dept	50 days		50 days	0%	Mon 27/7/20	Mon 14/9/20		NA	Sun 13/12/20	Sun 31/1/21		0.5 days			
482	-	ridge D3 and ICE certification (Final)	15 days	-	15 days	0%	Tue 15/9/20	Tue 29/9/20		NA	Mon 1/2/21	Mon 15/2/21	139 days		481		
		-															
483	-	Statutory Authorities/Gov. Dept	50 days		50 days	0%	Wed 30/9/20	Wed 18/11/20		NA	Tue 16/2/21	Tue 6/4/21	139 days		482		
184	_	Works of Pump Rooms EVA & Road L12d (Draft)	11 days		0 days	100%	Tue 28/4/20	Fri 8/5/20	Tue 28/4/20	Fri 8/5/20	Tue 28/4/20	Fri 8/5/20	0 days		101		
485	-	Statutory Authorities/Gov. Dept	60 days		45 days	25%	Fri 8/5/20	Tue 7/7/20	Fri 8/5/20	NA	Fri 8/5/20	Sat 9/1/21		0.5 days			
486	AIP for Stormwater Drainage V		45 days	0 days	45 days	0%	Wed 8/7/20		NA	NA	Sun 10/1/21	Tue 23/2/21	186 days	0.5 days	484,485		
487	DDA for Stormwater Drainage	Works (Draft)	60 days	0 days	60 days	0%	Sat 22/8/20	Tue 20/10/20	NA	NA	Wed 24/2/21	Sat 24/4/21	186 days	1 day	484,486		
488	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Wed 21/10/20	Sat 19/12/20	NA	NA	Sun 25/4/21	Wed 23/6/21	186 days	0.5 days	487		
489	DDA for Stromwater Drainage	Works (Final)	45 days	0 days	45 days	0%	Sun 20/12/20	Tue 2/2/21	NA	NA	Thu 24/6/21	Sat 7/8/21	186 days	1 day	487,486,488		
		Task	Summarv		 	Inactive N	filestone 🗠		Duration-on	lv		Start-only		Г	Fvt	ernal Mil	lestor
	.11 Prog with Progress May-20		Project Sum	imary		Inactive S				nmary Rollup 🗧		Finish-only		3		dline	.23001
as of JJ-		Milestone 🔶	Inactive Tas			Manual Ta	_		Manual Sun			External Tasl				ical	



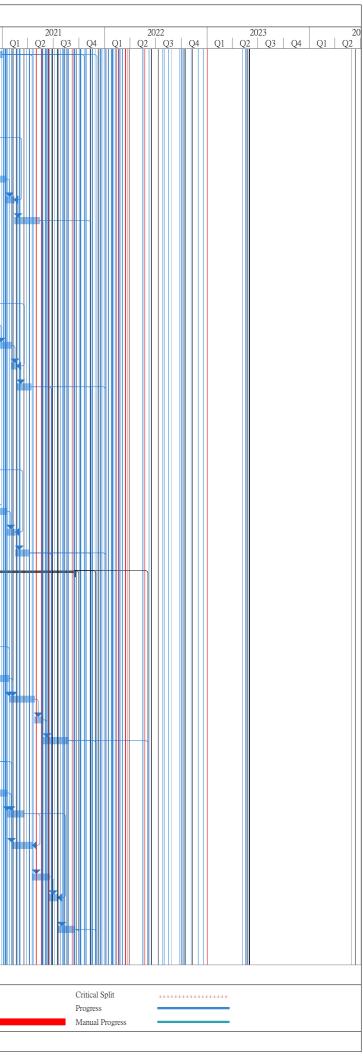
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	ask Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start					Late Finish	Total Slack	TRA	Predecessors		2020 2 Q3	3
490	Submit & endorse by PM and Statutory	Authorities/Gov. Dept	60 days	0 days	60 days	0%	Wed 3/2/21	Sat 3/4/21	NA	NA	Sun 8/8/21	Wed 6/10/21	186 days	0.5 days	489			
491	AIP for Saltwater & Freshwater - Road	L12d (Draft)	40 days	40 days	0 days	100%	Fri 1/11/19	Tue 10/12/19	Fri 1/11/19	Tue 10/12/19	Fri 1/11/19	Tue 10/12/19	0 days	1 day				
192	Submit & endorse by PM		31 days	31 days	0 days	100%	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	0 days	0.5 days	491			
93	Submit & endorse by Statutory Authori	ties/Gov. Dept	14 days	14 days	0 days	100%	Thu 9/4/20	Wed 6/5/20	Thu 9/4/20	Wed 6/5/20	Thu 9/4/20	Wed 6/5/20	0 days	1 day	491	<b>.</b>		
194	AIP for Saltwater & Freshwater Works	- Road L12d (Final)	12 days	12 days	0 days	100%	Thu 7/5/20	Mon 18/5/20	Thu 7/5/20	Mon 18/5/20	Thu 7/5/20	Mon 18/5/20	0 days	0.5 days	491,492,493	1	·	
195	DDA for Saltwater & Freshwater Work	s - Road L12d (Draft)	60 days	0 days	60 days	0%	Tue 19/5/20	Fri 17/7/20	NA	NA	Thu 11/3/21	Sun 9/5/21	296 days	1 day	491,494	†		
196	Submit & endorse by PM and Statutory	Authorities/Gov. Dept	60 days	0 days	60 days	0%	Sat 18/7/20	Tue 15/9/20	NA	NA	Mon 10/5/21	Thu 8/7/21	296 days	0.5 days	495			
197	DDA for Saltwater & FreshwaterWork	s - Road L12d (Final)	30 days	0 days	30 days	0%	Wed 16/9/20	Thu 15/10/20	NA	NA	Fri 9/7/21	Sat 7/8/21	296 days	1 day	494,495,496			
198	Submit & endorse by PM and Statutory	Authorities/Gov. Dept	60 days	0 days	60 days	0%	Fri 16/10/20	Mon 14/12/20	NA	NA	Sun 8/8/21	Wed 6/10/21	296 days	0.5 days	497			
.99	Fresh and Salt Works AIP - Waterfront	Promenade and at grade Open Space (Draft)	40 days	40 days	0 days	100%	Fri 1/11/19	Tue 10/12/19	Fri 1/11/19	Tue 10/12/19	Fri 1/11/19	Tue 10/12/19	0 days	1 day				
00	Submit & endorse by PM		31 days	31 days	0 days	100%	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	0 days	0.5 days	499			
01	Submit & endorse by PM/Statutory Aut	horities/Gov. Dept	14 days	14 days	0 days	100%	Thu 9/4/20			Mon 18/5/20		Mon 18/5/20		0.5 days				
02		Promenade and at grade Open Space (Final)		0 days	0 days	100%	Mon 11/5/20	Mon 18/5/20				Mon 18/5/20		0.5 days	499,500,501		19/5	
503	Fresh and Salt Works DDA - Waterfro		90 days	-	90 days	0%	Tue 19/5/20	Sun 16/8/20		NA	Sat 19/12/20	Thu 18/3/21	214 days		499,502			
03	(Draft) Submit & endorse by PM and Statutory				-	0%		Fri 30/10/20			Fri 19/3/21	Tue 1/6/21			499,502 503			
			75 days	-	75 days		Mon 17/8/20			NA								
05	Fresh and Salt Works DDA - Waterfrom (Final)		52 days	-	52 days	0%	Sat 31/10/20	Mon 21/12/20		NA	Wed 2/6/21	Fri 23/7/21	214 days		502,503,504			
)6	Submit & endorse by PM and Statutory	-	75 days	-	75 days	0%	Tue 22/12/20		NA	NA	Sat 24/7/21	Wed 6/10/21		0.5 days				
)7	AIP for Water Works - Remaining Fres	h Water and Salt Water works (Draft)	40 days		0 days	100%	Fri 1/11/19	Tue 10/12/19		Tue 10/12/19		Tue 10/12/19		1 day	499SS		]	
08	Submit & endorse by PM		31 days	31 days	0 days	100%	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	0 days	0.5 days	507	Ы		
19	Submit & endorse by PM/Statutory Aut	horities/Gov. Dept	14 days	14 days	0 days	100%	Thu 9/4/20	Thu 7/5/20	Thu 9/4/20	Thu 7/5/20	Thu 9/4/20	Thu 7/5/20	0 days	2 days	507	<b>•</b> .		
.0	AIP for Water Works - Remaining Fres	h Water and Salt Water works (Final)	11 days	11 days	0 days	100%	Thu 7/5/20	Mon 18/5/20	Thu 7/5/20	Mon 18/5/20	Thu 7/5/20	Mon 18/5/20	0 days	0.5 days	507,508,509	Ĩ		
1	DDA for Water Works - Remaining Fre	esh Water and Salt Water works (Draft)	50 days	0 days	50 days	0%	Mon 8/6/20	Mon 27/7/20	NA	NA	Fri 19/2/21	Fri 9/4/21	256 days	1 day	507,510			╢
12	Submit & endorse by PM and Statutory	Authorities/Gov. Dept	75 days	0 days	75 days	0%	Tue 28/7/20	Sat 10/10/20	NA	NA	Sat 10/4/21	Wed 23/6/21	256 days	0.5 days	511			
13	DDA for Water Works - Remaining Free	esh Water and Salt Water works (Final)	30 days	0 days	30 days	0%	Sun 11/10/20	Mon 9/11/20	NA	NA	Thu 24/6/21	Fri 23/7/21	256 days	1 day	510,511,512			
4	Submit & endorse by PM and Statutory	Authorities/Gov. Dept	75 days	0 days	75 days	0%	Tue 10/11/20	Sat 23/1/21	NA	NA	Sat 24/7/21	Wed 6/10/21	256 days	0.5 days	513			
5	Pumping Stations, Box Culverts and Intake	Structures	845 days	100.29 days	744.71 days	0%	Mon 2/12/19	Fri 25/3/22	Mon 2/12/19	NA	Mon 2/12/19	Thu 5/5/22	41 days			⊢		H
16	Prepare AIP for Salt Water and Sewage	Pumping Structures (Draft)	29 days	29 days	0 days	100%	Mon 2/12/19	Mon 30/12/19	Mon 2/12/19		Mon 2/12/19	Mon 30/12/19	0 days	1 day	4			
17	Submit & endorse by PM		11 days	11 days	0 days	100%	Tue 31/12/19	Fri 10/1/20	Tue 31/12/19	30/12/19 Fri 10/1/20	Tue 31/12/19	Fri 10/1/20	0 days	0.5 days	516		_	
18	Submit & endorse by Statutory Authori	ties/Gov. Dept	27 days	27 days	0 days	100%	Fri 27/3/20	Wed 29/4/20	Fri 27/3/20	Wed 29/4/20	Fri 27/3/20	Wed 29/4/20	0 days	2 days				
19	Prepare AIP for Salt Water & Sewage F	Pumping Structures and ICE certification	36 days	0 days	36 days	0%	Thu 2/7/20	Thu 6/8/20	NA	NA	Thu 10/6/21	Thu 15/7/21	343 days	1 day	516,517,518FF+	-		
20	(Final) Prepare DDA for Salt Water & Sewage	Pumping Structures and ICE certification	45 days	0 davs	45 days	0%	Tue 1/9/20	Thu 15/10/20	NA	NA	Tue 10/8/21	Thu 23/9/21	343 days	1 dav	days 516,518FF+21			
21	(Draft) Submit & endorse by PM and Statutory		50 days	-	50 days	0%	Fri 16/10/20	Fri 4/12/20		NA	Fri 24/9/21	Fri 12/11/21			days,519FF+70 520			Π
22		Pumping Structures and ICE certification	45 days		45 days	0%	Sat 5/12/20	Mon 18/1/21		NA	Sat 13/11/21	Mon 27/12/21			521,519FF			
23	(Final) Submit & endorse by PM and Statutory		50 days	-	45 days	0%	Tue 19/1/21		NA	NA	Tue 28/12/21	Tue 15/2/22	343 days	-	522			
		-													522			
24	Prepare E&M Works AIP for Sewage P	umping Station (Draft)	29 days	-	0 days	100%	Tue 7/1/20	Tue 4/2/20	Tue 7/1/20	Tue 4/2/20	Tue 7/1/20	Tue 4/2/20	0 days		51 ( 50 )			
25	Submit & endorse by PM		10 days		0 days	100%	Wed 5/2/20	Fri 14/2/20		Fri 14/2/20	Wed 5/2/20	Fri 14/2/20			516,524			
26	Submit & endorse by Statutory Authori	-	55 days	-	25 days	55%	Thu 23/4/20			NA	Thu 23/4/20	Sun 13/9/20	89 days	-	524,525			Ħ
27		on E&M works and ICE certification (Final)		-	77 days	0%	Wed 17/6/20		NA	NA	Mon 14/9/20	Sun 29/11/20	89 days	-	526			Ħ
28	Prepare DDA for Sewage Pumping Stat	ion E&M works and ICE certification (Draft)	120 days	0 days	120 days	0%	Wed 24/6/20	Wed 21/10/20	NA	NA	Mon 21/9/20	Mon 18/1/21	89 days	1 day	516,526FF,527F days	1		
9	Submit & endorse by PM and Statutory	Authorities/Gov. Dept	70 days	0 days	70 days	0%	Thu 22/10/20	Wed 30/12/20	NA	NA	Tue 19/1/21	Mon 29/3/21	89 days	1 day	528			
0	Prepare DDA for Sewage Pumping Stat	ion and ICE certification (Final)	31 days	0 days	31 days	0%	Thu 31/12/20	Sat 30/1/21	NA	NA	Tue 30/3/21	Thu 29/4/21	89 days	1 day	529,527FF+6 days			
1	Submit & endorse by PM and Statutory	Authorities/Gov. Dept	91 days	0 days	91 days	0%	Sun 31/1/21	Sat 1/5/21	NA	NA	Fri 30/4/21	Thu 29/7/21	89 days	1 day	530			
2	Prepare E&M Works AIP for Salt Wate	r Pumping (Draft)	29 days	29 days	0 days	100%	Tue 7/1/20	Tue 4/2/20	Tue 7/1/20	Tue 4/2/20	Tue 7/1/20	Tue 4/2/20	0 days	2 days		$\left\  \right\ $		
33	Submit & endorse by PM		10 days	10 days	0 days	100%	Wed 5/2/20	Fri 14/2/20	Wed 5/2/20	Fri 14/2/20	Wed 5/2/20	Fri 14/2/20	0 days	0.5 days	532,516			
4	Submit & endorse by Statutory Authori	ties/Gov. Dept	60 days		36 days	40%	Wed 29/4/20	Sat 27/6/20	Wed 29/4/20		Wed 29/4/20	Sat 12/9/20	77 days		532,533			μ
		-			• · ·													
	7.11 Prog with Progress		lummary Project Sum	marv I		Inactive N Inactive S			Duration-onl Manual Sum	y 📃 mary Rollup 🗖		Start-only Finish-only		C 3		ernal N idline	Milestone	е
	-May-20		-,,5000	, 1	-		0							-	1)00			



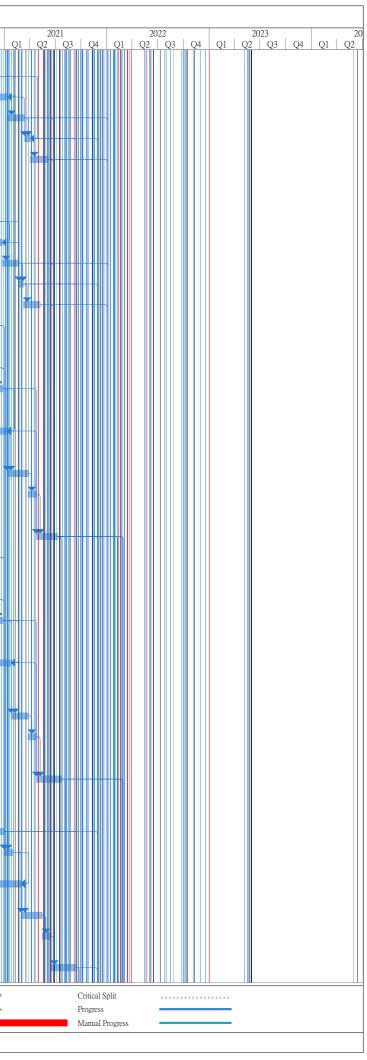
) Ta	ack Name		Direction	Actual	Pamainina	Dhysical 0	Early Ctout		tract No. ED/			Late Finish	Total	TPA	Dradaaasaa	1	2020
	isk Name			Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish			Total Slack	TRA	Predecessors		2020 Q
535	Prepare AIP for Salt Water Pun (Final)	nping Station E&M works and ICE certification	77 days	0 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		
536	Prepare DDA for Salt Water Pu (Draft)	amping 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+30 days,516		
37	Submit to WSD for Plumbing a	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	536		
538	Submit & endorse by PM and S	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		
539	Prepare DDA for Salt Water Pu	imping Station and ICE certification (Final)	31 days	0 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 days,538		
640	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	91 days	0 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	539		
541	AIP for Remaining Works of St (Draft)	alt Water & Sewerage Pumping and ICE certificatio	n 41 days	41 days	0 days	0%	Mon 17/2/20	Sat 28/3/20	Mon 17/2/20	Sat 28/3/20	Mon 17/2/20	Sat 28/3/20	0 days	1 day	4	_	
542	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			-	
i43	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 days	541,542		
544		alt Water Pumping & Sewage and ICE certification	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		
545	(Final) DDA for Remaining Works of	Salt Water & Sewage Pumping and ICE certification	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+35		
546	(Draft) Submit & endorse by PM and S	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	days 545		
547	-	Salt Water & Sewage Pumping and ICE certification	1 35 davs	0 davs	35 days	0%	Mon 7/6/21	Sun 11/7/21	NA	NA	Sun 16/1/22	Sat 19/2/22	223 days		546,544FF+12		
548	(Final) Submit & endorse by PM and S		75 days		75 days	0%	Mon 12/7/21	Fri 24/9/21	NA	NA	Sun 20/2/22	Thu 5/5/22	223 days		days 547		
549	-	Salt Water & Sewage Pumping and ICE certification	-		45 days	0%	Mon 5/4/21	Wed 19/5/21		NA	Mon 3/5/21	Wed 16/6/21	28 days		4		
	(Draft)			-													
550	Submit & endorse by PM and S	-	60 days	-	60 days	0%	Thu 20/5/21	Sun 18/7/21		NA	Thu 17/6/21	Sun 15/8/21			549		
551	(Final)	Salt Water Pumping & Sewage and ICE certification			62 days	0%	Mon 19/7/21	Sat 18/9/21	NA	NA	Mon 16/8/21	Sat 16/10/21	28 days		549,550		
552	certification (Draft)	of Salt Water & Sewage Pumping and ICE	60 days		60 days	0%	Fri 20/8/21	Mon 18/10/21		NA	Fri 17/9/21	Mon 15/11/21	28 days		549,551FF+30 days		
553	Submit & endorse by PM and S	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 days	552		
554	DDA for Architectural works of certification (Final)	of Salt Water & Sewage Pumping and ICE	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		
555	Submit & endorse by PM and S	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		
556	AIP for Landscaping works of (Draft)	Salt Water & Sewage Pumping and ICE certification	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		
557	Submit & endorse by PM and S	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 days	556		
558	AIP for Landscaping works of ( (Final)	Salt Water Pumping & Sewage and ICE certification	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		
559	DDA for Landscaping works o	f 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		
560	certification (Draft) Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Wed 20/10/21	Sun 19/12/21	NA	NA	Tue 16/11/21	Sat 15/1/22	27 days	0.5 days	days 559		
561	DDA for Landscaping works o	f Salt Water & Sewage Pumping and ICE	35 days	0 days	35 days	0%	Mon 20/12/21	Sun 23/1/22	NA	NA	Sun 16/1/22	Sat 19/2/22	27 days	2 days	558FF+12		
562	certification (Final) Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Mon 24/1/22	Fri 25/3/22	NA	NA	Sun 20/2/22	Thu 21/4/22	27 days	2 days	days,560 561		
563		ox Culvert Structures for Pumping Station (approx.	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			
	160m) (Section 6) Submission (	(Drait)															
564	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 days	563	╈	
565	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 days	563		
566	AIP for Seawater Intake and Bo	ox 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 days	563,565,564		
567	DDA for Seawater Intake and F	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	563,565,564,566		
568	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Sun 9/8/20	Sun 27/9/20	NA	NA	Mon 14/6/21	Mon 2/8/21	309 days	0.5 days	567		
569	DDA for Seawater Intake and F	Box Culvert Structure (Final)	15 days	0 days	15 days	0%	Mon 28/9/20	Mon 12/10/20	) NA	NA	Tue 3/8/21	Tue 17/8/21	309 days	1 day	567,568,566FF+		
570	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Tue 13/10/20	Tue 1/12/20	NA	NA	Wed 18/8/21	Wed 6/10/21	309 days	0.5 days	569		
571	Elevated Landscape Deck Staircase	e & Associated Work	714 days	268.49 days	445.51 days	0%	Thu 30/5/19	Wed 12/5/21	Thu 30/5/19	NA	Thu 30/5/19	Mon 5/7/21	54 days			+	-+#+
572	Elevated Landscape Deck Supe	rstructure 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		
573	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		
574	Submit & endorse by Statutory	Authorities/Gov. Dept		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		0.5 days	573		$\parallel \parallel$
75	Prepare AIP and ICE certificati	_	255 days		100 days	61%	Wed 20/11/19		Wed 20/11/19		Wed 20/11/19	Thu 26/11/20		0.5 days		_	
576	Prepare DDA and ICE certifica		75 days		75 days	0%	Fri 12/6/20		NA	NA	Thu 8/10/20	Sat 26/12/20	118 days		574FF+30 days,		
	_																
577	Submit & endorse by PM and S	-	50 days	-	50 days	0%	Mon 31/8/20	Mon 19/10/20		NA	Sun 27/12/20	Sun 14/2/21		0.5 days			
578	Prepare DDA for and ICE certi-	lication (Final)	22 days	U days	22 days	0%	Tue 20/10/20	Tue 10/11/20	NA	NA	Mon 15/2/21	Mon 8/3/21	118 days	1 day	577		
	44.0	Task	Summary			Inactive N	filestone 🔷		Duration-or	lv		Start-only		C	Fyte	nal Mi	[j]esto
	v.11 Prog with Progress -May-20		Project Sum	mary		Inactive N				nmary Rollup 🗧		Finish-only		3	Dead		
5 01 22-	widy 20	Milestone 🔶	Inactive Tasl	k		Manual Ta	ask		Manual Sur	nmary I		External Task	s		Criti	al	



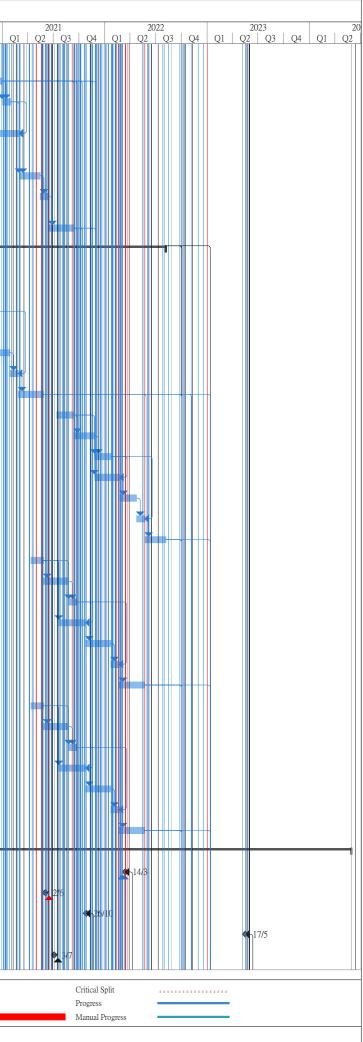
Tas	sk Name	Duration		Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors		020	
579	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	Duration 0 days	Duration 50 days	Complete 0%	Wed 11/11/20	Wed 30/12/20	NA	NA	Tue 9/3/21	Tue 27/4/21	Slack 118 days	1 day	578	Q2	Q3	3
580	Elevated Landscape Deck - Lift (LT1&LT2)& Staircase include E&M Progvision:	50 days	50 days	0 days	100%	Mon 7/10/19	Mon 25/11/19	Mon 7/10/19	Mon	Mon 7/10/19	Mon 25/11/19	0 days	3 days	44FF+12 days		Д	
581	AIP and ICE Certification (Draft) Submit & endorse by PM	21 days	21 days	0 days	100%	Tue 26/11/19	Mon 16/12/19	Tue 26/11/19	25/11/19 Mon 16/12/	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	-	60 days	0%	Sat 27/6/20	Tue 25/8/20	NA	NA	Fri 14/8/20	Mon 12/10/20	48 days	-	580,581,582,44F		╉╢	
584	Prepare DDA and ICE certification (Draft)	60 days	-	60 days	0%	Tue 11/8/20	Wed 14/10/20		NA	Mon 28/9/20	Tue 1/12/20	48 days		580,583FF+50 d		Ţ	
585	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	-	90 days	0%	Thu 15/10/20	Tue 12/1/21		NA	Wed 2/12/20	Mon 1/3/21		0.5 days				
586	Prepare DDA for and ICE certification (Final)	30 days	-	30 days	0%	Wed 13/1/21	Thu 11/2/21		NA	Tue 2/3/21	Wed 31/3/21	-	0.5 days	585,583FF+12 d			
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		586			
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		Mon 30/3/20		3 days	500			
589			-	0 days	100%	Mon 30/3/20		Mon 30/3/20			Mon 20/4/20		0.5 days	599			
	Submit & endorse by PM	21 days		-													
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	Mon 16/11/20	84 days		588			
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	Wed 16/12/20	84 days		588,590,44FF+1			
592	Prepare DDA and ICE certification (Draft)	75 days	-	75 days	0%	Thu 24/9/20	Sat 12/12/20		NA	Thu 17/12/20	Sat 6/3/21	84 days		590SS,591			1
i93	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	-	50 days	0%	Sun 13/12/20	Sun 31/1/21		NA	Sun 7/3/21	Sun 25/4/21		0.5 days				
94	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			
95	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			
96	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			rtt	
97	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	M		
98	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			h
9	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			Ĩ
00	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			H
01	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 days	600			
02	Prepare DDA for and ICE certification (Final)	30 days	0 days	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,60			
3	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 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	602			
)4	Waterfront Promenade and At-grade Open Space	533 days	5.98 days	527.02 days	0%	Wed 1/4/20	Wed 15/9/21	Wed 1/4/20	NA	Wed 1/4/20	Tue 28/9/21	13 days					⊢╢
05	Prepare AIP for Observation Deck with Lift (LT5) and Staircase and ICE (Include E&M Provision Works) certification (Draft)	24 days	24 days	0 days	100%	Wed 1/4/20	Fri 24/4/20	Wed 1/4/20	Fri 24/4/20	Wed 1/4/20	Fri 24/4/20	0 days	1 day				
06	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			$\left  \right $
07	Prepare AIP for Observation Deck with Lift (LT5) and Staircase and ICE (Include E&M Provision Works) certification (Final)	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			
)8	Prepare DDA for Observation Deck with Lift and Staircase and ICE (Include E&M	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			
)9	Provision Works) certification (Draft) 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 days	608,607			
10	Prepare DDA for Observation Deck with Lift and Staircase and ICE (Include E&M	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			
11	Provision Works) certification (Final) 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			
2	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				
3	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	Tue 17/11/20	Sat 30/1/21	13 days	0.5 days	612			
4	Prepare AIP for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Final)	60 days	0 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			
5	Prepare DDA for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Draft)	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 days			
	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			
7	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			
8	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Sun 18/7/21	Wed 15/9/21	NA	NA	Sat 31/7/21	Tue 28/9/21	13 days	1 day	617			
19	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				
	11 Prog with Progress	Summarv			Inactive N	Vilestone 💧		Duration-on	lv		Start-only		C	Exte	mal Mil	eston	
		, anning à		•	<ul> <li>Indenve iv</li> </ul>	· · · · · · · · · · · · · · · · · · ·		Dual01-011	•.,		Guar-Olliy		<u> </u>	LiXIC	****** 1V111	-300110	~



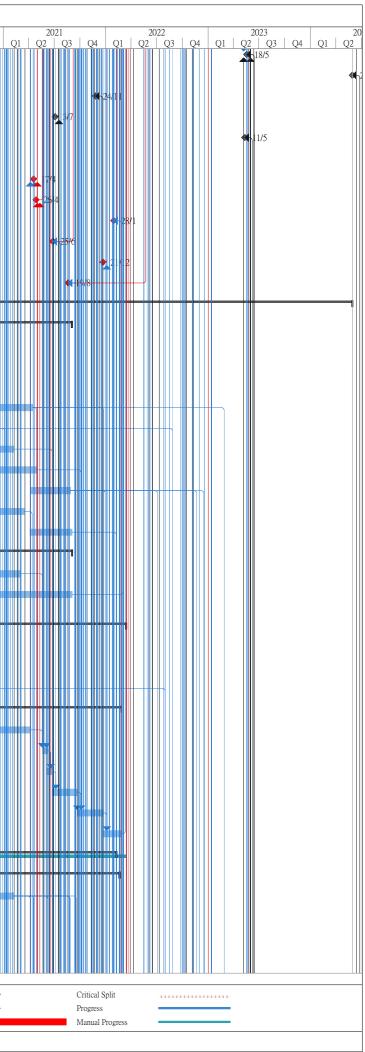
) Ta	lealt Name		n A -4 1	Demail	Dh:1 0/	Early Ct			ED/2018/01 k	· · · · · ·	Lota Elai 1	T-4-1	TD A	Deaderson		000
	ask Name		n Actual Duration	Remaining Duration	Physical % Complete	Early Start			art Actual Fini		Late Finish	Total Slack	TRA	Predecessors	Q2	2020
620	Submit & endorse by PM and Statutory Authorities/Gov. Dept	63 days	0 days	63 days	0%	Thu 20/8/20	Wed 21/10/20	NA	NA	Mon 21/9/20	Sun 22/11/20	32 days	3 days	619		
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	619,620		
622	DDA for Cladding Design of Landscape Deck, Lifts and associated	d 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	619,621FF+30 days		
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	622		
624	DDA for Cladding Design of Landscape Deck, Lifts and associated	d 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	621FF,622,623		
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	624		
626	AIP for Balustrade and Railing of Promenade, Open Space and As	socated 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			
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	626		
528	AIP for Balustrade and Railing of Promenade, Open Space and Ass	socated 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	626,627		
529	(Final) DDA for Balustrade and Railing of Promenade, Open Space and A	ssocated 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	626,628FF+30		
530	(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 days	days 629		
631	DDA for Balustrade and Railing of Promenade, Open Space and A	ssocated Works 15 days	0 davs	15 days	0%	Mon 22/2/21	Mon 8/3/21	NA	NA	Thu 22/4/21	Thu 6/5/21	59 days	1 dav	628,629,630		
632	(Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept		0 days	60 days	0%	Tue 9/3/21	Fri 7/5/21	NA	NA	Fri 7/5/21	Mon 5/7/21	59 days		631		
533	Prepare AIP for Permanent Building Works (i.e. Ampitheater, Obs Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Building Blocks) and ICE certification (Draft)	ervation Tower, 60 days		60 days	0%	Wed 29/7/20		NA	NA	Thu 20/8/20	Sun 18/10/20	22 days		149FF+7 days		
34	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 dave	0 days	60 days	0%	Sun 27/9/20	Wed 25/11/20	NA	NA	Tue 3/11/20	Fri 1/1/21	37 dave	0.5 days	633		
635	Prepare AIP for Permanent Building Works (i.e.Ampitheater, Obs			30 days	0%		Fri 25/12/20		NA	Sat 2/1/21	Sun 31/1/21	37 days		633,634		
	Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Building Blocks) and ICE certification (Final)	Back of House														
536	Prepare DDA for Permanent Building Works (i.e. Ampitheater, O Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Building Blocks) and ICE certification (Draft)		vs 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 day	633,635FF+15 days,151FF+15 days		
537	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	635,636		
538	Prepare DDA for Permanent Building Works (i.e. Ampitheater, O Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Building Blocks) nd ICE certification (Final)		0 days	30 days	0%	Fri 26/3/21	Sat 24/4/21	NA	NA	Sun 2/5/21	Mon 31/5/21	37 days	0 days	637		
539	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	0.5 days	635,636,638		
640	Prepare AIP for Permanent Building E&M Works (i.e. Ampitheate Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection House Building Blocks) and ICE certification (Draft)	r, Observation 75 days Block, Back of	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	149FF+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	0.5 days	640		
642	Prepare AIP for Permanent Building E&M Works (i.e. Observatio Block, Light Refreshment Kiosk, Refuse Collection Block, Back o Blocks) and ICE certification (Final)	n Tower, Toilet 30 days of House Building	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	640,641		
543	Prepare DDA for Permanent Building E&M Works (i.e. Ampitheat Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection House Building Blocks) and ICE (Include E&M Provision Works) (Draft)	Block, Back of	vs 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 day	640,642FF+30 days,151FF+15 days		
544	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	642,643		
545	Prepare DDA for Permanent Building E&M Works (i.e. Ampithee Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection House Building Blocks) nd ICE certification (Final)		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	644		
646	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Sun 25/4/21	Fri 23/7/21	NA	NA	Mon 17/5/21	Sat 14/8/21	22 days	0.5 days	642,643,645		
647	Prepare AIP for Temporary Building Works (i.e. temporary manag toilet blocks) and ICE certification (Draft)	gement office and 75 days	0 days	75 days	0%	Mon 3/8/20	Fri 16/10/20	NA	NA	Thu 20/8/20	Mon 2/11/20	17 days	1 day	149FF+7 days		
548	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	647		
649	Prepare AIP for Temporary Building Works (i.e. temporary manag toilet blocks) and ICE certification (Final)	gement office and 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	633,634,648,640		
550	Prepare DDA for AIP for Temporary Building Works (i.e. tempora office and toilet blocks) and ICE (Include E&M Provision Works) certification (Draft)	and ICE	vs 0 days	150 days	0%	Fri 2/10/20	Sun 28/2/21		NA	Mon 19/10/20	Wed 17/3/21	17 days		633,640,649FF+ days,151FF+15 days		
551	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	0.5 days	649,650		
552	Prepare DDA for AIP for Temporary Building Works (i.e. tempor office and toilet blocks) and ICE (Final)			30 days	0%	Sat 15/5/21	Sun 13/6/21		NA	Tue 1/6/21	Wed 30/6/21	17 days		651		
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		
itle Por	v.11 Prog with Progress	Summary			Inactive N	Vilestone 🔷		Duratio	n-only		Start-only		C	Exte	mal Mi	il
	P-May-20 Split	Project Su		1	Inactive S	-			Summary Rollup		Finish-only		3		dline	
	Milestone	Inactive T	ask		Manual T	`ask		Manual	Summary		External Tas	ks		Criti	cal	



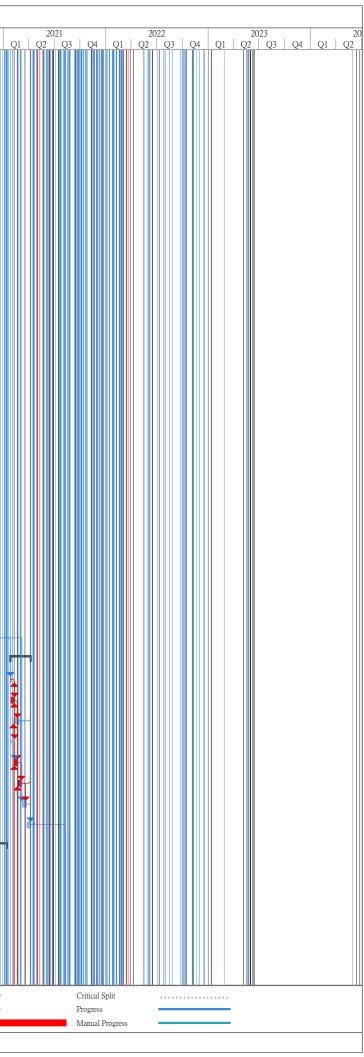
	Task Name	Duration	Actual	Remaining	Physical %	Early Start		ract No. ED/	Actual Finis		Late Finish	Total	TRA	Predecessors	202	0
			Duration	Duration	Complete							Slack			Q2	
654	Prepare AIP for Temporary Building E&M Works (i.e. temporary management office and toilet blocks) and ICE certification (Draft)	75 days	0 days	75 days	0%	Mon 3/8/20	Fri 16/10/20	NA	NA	Thu 20/8/20	Mon 2/11/20	17 days	l day	149FF+7 days		
655	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	654		
656	Prepare AIP for Temporary Building E&M Works (i.e. temporary management office and toilet blocks) and ICE certification (Final)	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	655,633,634,640		
557	Prepare DDA for AIP for Temporary Building E&M 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		633,640,656FF+ days,151FF+15 days		
58	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	0.5 days	656,657		
559	Prepare DDA for AIP for Temporary Building E&M 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	658		
60	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	659		
51	Landscaping and Irrigation works	858 days	23.33 days	834.67 days	0%	Wed 1/4/20	Sat 6/8/22	Wed 1/4/20	NA	Wed 1/4/20	Sun 23/10/22	78 days				╨
52	Prepare AIP for Roadside Landscaping Softworks and ICE certification (Draft)	38 days	38 days	0 days	100%	Wed 1/4/20	Fri 8/5/20	Wed 1/4/20	Fri 8/5/20	Wed 1/4/20	Fri 8/5/20	0 days	1 day			
53	Submit & endorse by PM and Statutory Authorities/Gov. Dept	113 days		100 days	12%	Sat 9/5/20	Sat 29/8/20	Sat 9/5/20	NA	Sat 9/5/20	Mon 20/9/21	387 days (		662		
54	Prepare AIP for roadside landscaping softworks and ICE certification (Final)	30 days		30 days	0%	Sun 30/8/20	Mon 28/9/20		NA	Tue 21/9/21	Wed 20/10/21	387 days (		662,663		Π
55	Prepare DDA for Roadside Landscaping Softworks and ICE certification (Prinar) Prepare DDA for Roadside Landscaping Softworks and ICE certification (Draft)	95 days		95 days	0%	Sun 26/7/20	Wed 28/10/20		NA	Tue 17/8/21	Fri 19/11/21	387 days		662,664FF+30		Ŧ.
					0%									days		
66	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days		90 days		Thu 29/10/20	Tue 26/1/21		NA	Sat 20/11/21	Thu 17/2/22	387 days (		665		
67	Prepare DDA for Roadside Landscaping Softworks and ICE certification (Final)	30 days		30 days	0%	Wed 27/1/21		NA	NA	Fri 18/2/22	Sat 19/3/22	387 days (		666,664FF+15 days		$\ $
58	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days		90 days	0%	Fri 26/2/21	Wed 26/5/21		NA	Sun 20/3/22	Fri 17/6/22	387 days (		667		
59	Prepare AIP for irrigation system for all landscaping works and ICE certification (Draft)	60 days	0 days	60 days	0%	Tue 13/7/21	Fri 10/9/21	NA	NA	Wed 29/9/21	Sat 27/11/21	78 days	1 day			
70	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Sat 11/9/21	Wed 24/11/21	NA	NA	Sun 28/11/21	Thu 10/2/22	78 days	0.5 days	669		
71	Prepare AIP for irrigation system for all landscaping works and ICE certification (Final)	60 days	0 days	60 days	0%	Thu 25/11/21	Sun 23/1/22	NA	NA	Fri 11/2/22	Mon 11/4/22	78 days	0 days	669,670		
72	Prepare DDA for irrigation system for all landscaping works and ICE certification (Draft)	90 days	0 days	90 days	0%	Thu 25/11/21	Tue 22/2/22	NA	NA	Fri 11/2/22	Wed 11/5/22	78 days		669,671FF+30 days		
73	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Wed 23/2/22	Sat 23/4/22	NA	NA	Thu 12/5/22	Sun 10/7/22	78 days		672		
74	Prepare DDA for irrigation system for all landscaping works and ICE certification (Final)	30 days	0 days	30 days	0%	Sun 24/4/22	Mon 23/5/22	NA	NA	Mon 11/7/22	Tue 9/8/22	78 days		673,671FF+15 days		
75	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Tue 24/5/22	Sat 6/8/22	NA	NA	Wed 10/8/22	Sun 23/10/22	78 days		674		
76	Prepare AIP for Soft Landscaping works and ICE certification (Draft)	45 days	0 days	45 days	0%	Mon 12/4/21	Wed 26/5/21	NA	NA	Tue 14/9/21	Thu 28/10/21	155 days	1 day			
77	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Thu 27/5/21	Tue 24/8/21	NA	NA	Fri 29/10/21	Wed 26/1/22	155 days	0.5 days	676		
78	Prepare AIP for soft landscaping and ICE certification (Final)	30 days	0 days	30 days	0%	Wed 25/8/21	Thu 23/9/21	NA	NA	Thu 27/1/22	Fri 25/2/22	155 days	0 days	676,677		
79	Prepare DDA for Soft Landscaping and ICE certification (Draft)	95 days	0 days	95 days	0%	Wed 21/7/21	Sat 23/10/21	NA	NA	Thu 23/12/21	Sun 27/3/22	155 days	1 day	676,678FF+30		
30	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Sun 24/10/21	Fri 21/1/22	NA	NA	Mon 28/3/22	Sat 25/6/22	155 days		days 679		
81	Prepare DDA for Soft Landscaping and ICE certification (Final)	30 days		30 days	0%	Sat 22/1/22	Sun 20/2/22		NA	Sun 26/6/22	Mon 25/7/22	155 days (		678FF+15		
582	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days		90 days	0%	Mon 21/2/22	Sat 21/5/22		NA	Tue 26/7/22	Sun 23/10/22	155 days (	-	days,680 681		
83	Prepare AIP for Hard Landscaping and ICE certification (Draft)	45 days		45 days	0%	Mon 12/4/21	Wed 26/5/21		NA	Tue 14/9/21	Thu 28/10/21	155 days		001		
				-										(0)		
584	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	-	90 days	0%	Thu 27/5/21	Tue 24/8/21		NA	Fri 29/10/21	Wed 26/1/22		0.5 days			
685	Prepare AIP for Hard landscaping and ICE certification (Final)	30 days		30 days	0%	Wed 25/8/21	Thu 23/9/21		NA	Thu 27/1/22	Fri 25/2/22	155 days (		683,684		
586	Prepare DDA for Hard Landscaping and ICE certification (Draft)	95 days	-	95 days	0%	Wed 21/7/21	Sat 23/10/21		NA	Thu 23/12/21	Sun 27/3/22	155 days		683,685FF+30 days		
687	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Sun 24/10/21	Fri 21/1/22	NA	NA	Mon 28/3/22	Sat 25/6/22	155 days (	0.5 days	686		
688	Prepare DDA for Hard Landscaping and ICE certification (Final)	30 days	0 days	30 days	0%	Sat 22/1/22	Sun 20/2/22	NA	NA	Sun 26/6/22	Mon 25/7/22	155 days		685FF+15 days,687		
589	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Mon 21/2/22	Sat 21/5/22	NA	NA	Tue 26/7/22	Sun 23/10/22	155 days	0 days	688		
590	Work Stage/ Phase - Planned Completion	1387 days	0 days	1387 days	0%	Tue 11/8/20	Wed 29/5/24	NA	NA	Fri 7/8/20	Wed 29/5/24	-4 days				ŀ
591	Section 1	0 days	0 days	0 days	0%	Mon 14/3/22	Mon 14/3/22	NA	NA	Tue 1/3/22	Tue 1/3/22	-13 days	0 days	1105FF,1438,73		
92	Section 2	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	1127		
93	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	7 days	0 days	1172FF		$\ $
594	Section 4	0 days	0 days	0 days	0%	Wed 17/5/23	Wed 17/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	13 days	0 days	1133FF		
595	Section 5	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		
								1								
itle: R	ev. 11 Prog with Progress	Summary Droioat Sum			Inactive N			Duration-or			Start-only		C		al Miles	stone
s of 2	2-May-20	Project Sum Inactive Tasl		U	Inactive S Manual T			<ul> <li>Manual Sur</li> <li>Manual Sur</li> </ul>	nmary Rollup 🚦 nmary 🛛 🛛		<ul> <li>Finish-only</li> <li>External Task</li> </ul>		3	Deadl		
								-	16 of 36							-



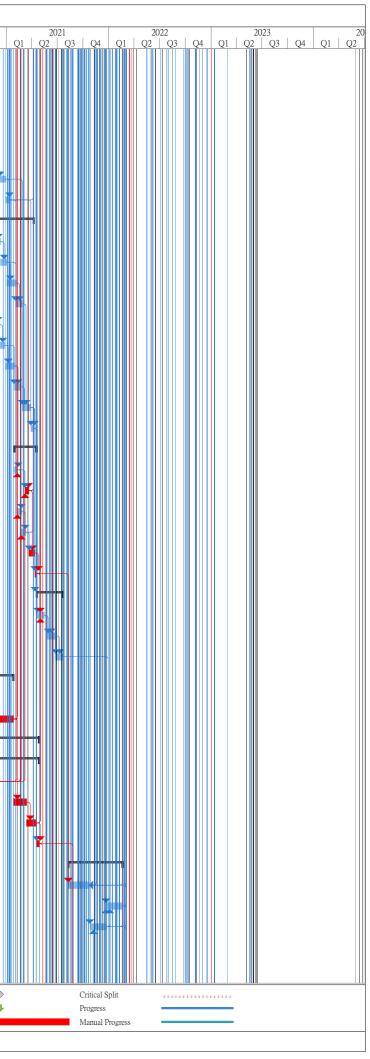
)	Task Name		Duration	Actual	Remaining	Physical %	Early Start		Actual Start	Actual Finish	-	Late Finish	Total	TRA	Predecessors	202	20	
				Duration	Duration	Complete							Slack					
696	Section 6		0 days	0 days	0 days	0%	Thu 18/5/23	Thu 18/5/23		NA	Tue 30/5/23	Tue 30/5/23	12 days	0 days	1357FF,1546FF,			
597	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			
698	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			
699	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			
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			
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/
702	KD2		0 days	0 days	0 days	0%	Sat 17/4/21	Sat 17/4/21	NA	NA	Sun 18/4/21	Sun 18/4/21	1 day	0 days	791,821,771,774			
703	KD3		0 days	0 days	0 days	0%	Mon 26/4/21	Mon 26/4/21	NA	NA	Tue 1/6/21	Tue 1/6/21	36 days	0 days	822,821			
704	KD4		0 days	0 days	0 days	0%	Fri 28/1/22	Fri 28/1/22	NA	NA	Mon 31/1/22	Mon 31/1/22	3 days	0 days	1255FF			
705	KD5		0 days	0 days	0 days	0%	Fri 25/6/21	Fri 25/6/21	NA	NA	Fri 17/9/21	Fri 17/9/21	84 days	0 days	1252FF			
706	KD6		0 days	0 days	0 days	0%	Tue 21/12/21	Tue 21/12/21	NA	NA	Wed 29/12/21	Wed 29/12/21	8 days	0 days	883			
707	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			
708	Construction Works		1499 day	s75.67 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?				₩	_
709	Procurement of Materials and Equipme	ents	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				₩	_
710	Office Accommodation		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					
711	Lift Submission Preparation		15 days		15 days	0%	Sat 12/9/20		NA	NA	Wed 23/9/20	Wed 7/10/20		0.5 days	173			ļ
712	Lift Comment & Approval		21 days		21 days	0%	Sun 27/9/20	Sat 20/9/20 Sat 17/10/20		NA	Thu 8/10/20	Wed 28/10/20		0.5 days				Ţ
712	Lifts ((5 nos)				-	0%	Sun 18/10/20	Thu 15/4/21			Thu 29/10/20	Mon 26/4/21						
		1	180 days		180 days					NA					712			
714	Pumps for Pump Room next to Uno		150 days		150 days	0%	Sat 23/5/20	Thu 19/11/20		NA	Wed 8/7/20	Tue 5/1/21		30 days				T
/15	Elevated landscape deck soffit pane		120 days		120 days	0%	Mon 14/9/20	Sat 6/2/21	NA	NA	Thu 4/2/21	Mon 5/7/21		30 days				
16	Underpass & Depressed Rd - facad		120 days		120 days	0%	Tue 1/12/20		NA	NA	Wed 12/5/21	Mon 4/10/21		30 days				
17	E & M equipment & fittings (for O	pen space & Promenade)	120 days	0 days	120 days	0%	Tue 6/4/21	Fri 27/8/21	NA	NA	Mon 27/9/21	Tue 22/2/22	144 days	30 days				
718	Bridge Parapet Fabrication		120 days	0 days	120 days	0%	Mon 16/11/20	Mon 15/3/21	NA	NA	Wed 26/5/21	Wed 22/9/21	191 days	30 days				
719	Pumps for Salt and Sewage Pumpir	ng Stations	150 days	0 days	150 days	0%	Mon 5/4/21	Wed 1/9/21	NA	NA	Sun 19/9/21	Tue 15/2/22	167 days	30 days				
720	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					Ħ
21	TTA Application for Junction Mod	ification Rd L6 & D2	182 days	0 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 chil 4 nos. of signaling cable along Nor	lled water pipes under contract no. 2852EM17A and th 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				1
723	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			+	₩	╉
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	<b>.</b>		
27	Part 1 - Junction Modification Rd I	.6 & 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					
728	XP Application for Junction Mc	dification 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 e	xisting 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 e	xisting underground cables and utilities	14 days	0 days	14 days	0%	Sat 5/6/21	Tue 22/6/21	NA	NA	Wed 9/6/21	Fri 25/6/21	3 days	1 day	729			
31	Stage 3: East Bound + Drop Ke	rb Modification + Road Marking	76 days	0 davs	76 days	0%	Wed 23/6/21	Mon 20/9/21	NA	NA	Sat 26/6/21	Fri 24/9/21	3 days	1 day	730			
32	Stage 4: TTA for Central Divide	_	76 days	-	76 days	0%	Tue 21/9/21	Tue 21/12/21		NA	Sat 25/9/21	Fri 24/12/21	3 days	1 day	731,113			
33	Stage 5: Construct 2 Dividers		51 days		51 days	0%	Wed 22/12/21		NA	NA	Tue 28/12/21	Tue 1/3/22	3 days	1 day	732			
34	Bridge D3 (Approach Ramp and Br	ridaa) CI11097 1444 7		91.74 days	720.26 days	0%	Thu 16/5/19	Mon 7/2/22	Thu 16/5/19		Mon 11/11/19	Wed 29/5/24	687 days		152			
		luge) CH108/-1444.7		-														
35	North Approach Ramp			66.85 days	569.15 days	0%	Wed 25/12/19		Wed 25/12/19		Wed 25/12/19	Tue 1/3/22	9 days					Ţ
36	Procurement of Movement J	_	180 days		180 days	0%	Tue 11/8/20	Sat 6/2/21	NA	NA	Fri 9/10/20	Tue 6/4/21		30 days	194,220			1
37	long)	h, Sourth & East Side ELS Cofferdam (assume 169	4 days	-	0 days	100%	Tue 14/1/20	Fri 17/1/20	Tue 14/1/20		Tue 14/1/20	Fri 17/1/20		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					
)	Hoarding Removal along KT	'SP 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			
			1		-								1	-				_
	ev.11 Prog with Progress		Summary Project Sum	imary	l	Inactive M			Duration-on Manual Sur	ly 📃 1mary Rollup 🗖		Start-only Finish-only		C ]	Exter Dead	mal Mile lline	stone	
c of 2	2-May-20			imary ik [	•	u macuve S	aaaaaa i		. ivialiual Sull	иу конир 📒		1 IIISII=OIIIY		-	Dead			



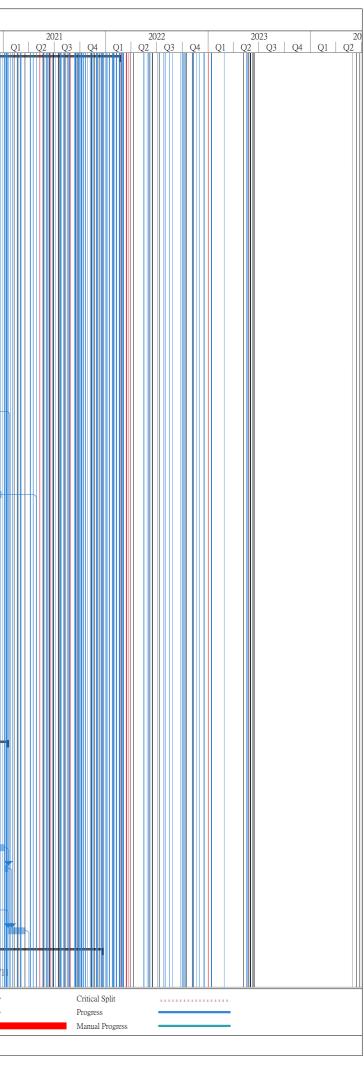
D 1	Fask Name		Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	2018/01 KT	-	Late Finish	Total	TRA	Predecessors	202	20
		m ELS Coffordom (assume 105m Jane)		Duration	Duration	Complete				Wed 19/2/20			Slack	0.5 day		Q2	
740		rn ELS Cofferdam (assume 105m long)		8 days	0 days	100%	Tue 11/2/20		Tue 11/2/20			Wed 19/2/20	0 days		737,739		
741	Excavattion with Shoring and include Sand Raplacemnet Te:		44 days	44 days	0 days	100%	Thu 20/2/20	Wed 15/4/20	Thu 20/2/20	Wed 15/4/20	1'hu 20/2/20	Wed 15/4/20	0 days	1 day		∎∖∦	$\parallel$
742	Remaining Excavation with S Replacement include Sand Ra		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 days	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				╬
744	Bay No.3 Base Slab with H	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 days		
745	Bay No.3: Wall & Column	with Soffit (upto +4.6mPD) (include Wall Former)	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 Weat	her	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		•
747		n 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		6
748	Top Slab(6)+(7) Bay No. 3: Top Slab Const	ruction 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		ł
749	Bay No.2 Base Slab with I	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		with Soffit (upto +4.6mPD) (include Wall Former)	23 days	6 days	17 days	25%	Sat 16/5/20	Thu 11/6/20	Sat 16/5/20	NA	Sat 16/5/20	Thu 11/6/20	-1 day	1 day	749		
751	(3)+(4)+(5) Bay No. 2: Wall & Colum:	n Casted and Formwork & Falsework upto Soffit of	18 days	0 days	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		i
752	Top Slab (6)+(7)	ruction with Formwork & Falsework Erection(8)			12 days	0%	Wed 8/7/20		NA	NA	Sat 4/7/20	Fri 17/7/20	-3 days		751,748FF+2		┦
753	Bay No.4 Base Slab with F		15 days		0 days	100%	Wed 1/4/20		Wed 1/4/20	Wed 13/5/20		Wed 13/5/20	0 days	1 day	days 741SS+35 days		Ţ
754	-	with Soffit (upto +4.6mPD) (include Wall Former)		-	14 days	36%	Thu 14/5/20			NA	Thu 14/5/20	Tue 9/6/20	-3 days		753,7508S+7		
755	(3)+(4)+(5)	n Casted and Formwork & Falsework upto Soffit of			20 days	0%	Wed 10/6/20		NA	NA	Sat 6/6/20	Tue 30/6/20	-3 days		days 754		
756	Top Slab (6)+(7)	ruction with Formwork & Falsework Erection (8)			14 days	0%	Mon 6/7/20		NA	NA	Thu 2/7/20	Fri 17/7/20	-3 days		755,751SS+4		
757	Backfill (9)	ración with ronnwork & raisework Erectión (6)	12 days		12 days	0%	Wed 22/7/20		NA	NA	Sat 18/7/20	Fri 31/7/20	-3 days		755,7513314 days 756,752,748		
758		oad Reinstatement (10) (KD1)		0 days	6 days	0%	Wed 5/8/20		NA	NA	Sat 18/1/20	Fri 7/8/20	-3 days				
759	-				-	0%	Mon 24/8/20	Mon 23/11/20		NA	Thu 27/8/20	Thu 17/12/20		0.5 days	151		
	North Approach Ramp (Bays		92 days		92 days								3 days	1.1	740 75200 - 4-1		
760	Bay No.5 Base Slab with F		-	0 days	8 days	0%	Thu 10/9/20		NA	NA	Mon 14/9/20	Tue 22/9/20	3 days	1 day	749,753SS+4 da		
761	(3+4+5)	with Soffit (upto +4.6mPD) (include Wall Former)			12 days	0%	Sat 19/9/20	Mon 5/10/20		NA	Wed 23/9/20	Thu 8/10/20	3 days	1 day	760		
762	Top Slab (6)+(7)	n Casted and Formwork & Falsework upto Soffit of		-	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 days		
763	Removal (8)	ruction with Formwork & Falsework Erection &	12 days	0 days	12 days	0%	Fri 30/10/20	Thu 12/11/20		NA	Tue 3/11/20	Mon 16/11/20	3 days	1 day	762,227FF		
764	Bay No.6 Base Slab with F	- · · · ·	15 days	-	15 days	0%	Mon 24/8/20	Wed 9/9/20		NA	Thu 27/8/20	Sat 12/9/20	3 days	1 day	741SS+35 days		
765	Bay No.6: Wall & Column (3)+(4)+(5)	with Soffit (upto +4.6mPD) (include Wall Former)	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	764		
766	Bay No. 6: Wall & Colum Top Slab(6)+(7)	n 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	765		
767	Bay No. 6: Top Slab Const Removal (8)	ruction 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	21 days	1 day	765,766		
768	North Approach Ramp (Bays	7&8) (Next to BEM)	56 days	0 days	56 days	0%	Tue 26/1/21	Wed 7/4/21	NA	NA	Tue 26/1/21	Sat 17/4/21	0 days				
769	Bay 7: Blinding		1 day	0 days	1 day	0%	Tue 26/1/21	Tue 26/1/21	NA	NA	Tue 26/1/21	Tue 26/1/21	0 days	0.5 days	816,767		
770	Bay 7: Base slab		9 days	0 days	9 days	0%	Wed 27/1/21	Fri 5/2/21	NA	NA	Wed 27/1/21	Fri 5/2/21	0 days	1 day	816,769		
771	Bay 7: Wall		13 days	0 days	13 days	0%	Sat 6/2/21	Wed 24/2/21	NA	NA	Wed 31/3/21	Sat 17/4/21	42 days	1 day	819,770		
772	Bay 8: Blinding		1 day	0 days	1 day	0%	Wed 27/1/21	Wed 27/1/21	NA	NA	Fri 5/2/21	Fri 5/2/21	8 days	0.5 days	769		
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		
776	Bays No.7&8: Extract She	etpile	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 days	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				
778	Bay No.3 Base Slab with F	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			
779		with Soffit (upto +4.6mPD) (include Wall Former)	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		
780		n 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 Const	ruction 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	21 days	1 day	779,780		
782	Removal (8) Bay No.2 Base Slab with F		15 days		15 days	0%	Mon 17/8/20	Wed 2/9/20		NA	Tue 25/8/20	Thu 10/9/20	7 days		778FS-21 days		
783	-	with Soffit (upto +4.6mPD) (include Wall Former)		-	17 days	0%	Thu 3/9/20	Tue 22/9/20		NA	Wed 7/10/20	Tue 27/10/20	27 days		782		
	(3)+(4)+(5)							20,720					aays				
	ev.11 Prog with Progress		lummary Project Sum	marv			Milestone $\diamond$ Summary		Duration-or Manual Sur	ıly 📃 nmary Rollup 💼		Start-only Finish-only		C ]	Exte	rnal Mile lline	sto
as of 22	2-May-20		nactive Tas		-	Manual	-		Manual Sur			External Task	~	-	Criti		



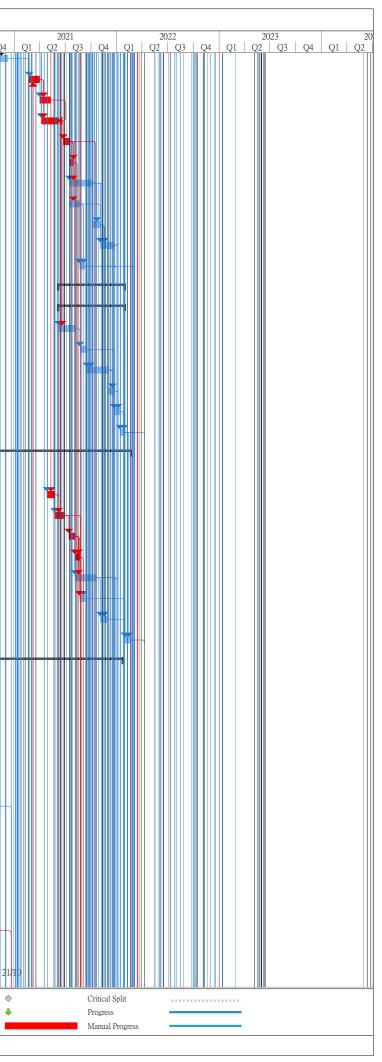
D Tas	sk Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	2
			Duration	Duration	Complete							Slack			Q2
784	Bay No. 2: Wall & Column Casted and Formwork & Falsework upto Soffit c Top Slab(6)+(7)	of 27 days	0 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	
785		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	
786	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	
787	Bay No.4: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme	r) 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	
788	(3)+(4)+(5) Bay No. 4: Wall & Column Casted and Formwork & Falsework upto Soffit c	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		1 day	787	
	Top Slab(6)+(7)		-												
789	Bay No. 4: Top Slab Construction with Formwork & Falsework Erection & Removal (8)			17 days	0%	Thu 29/10/20	Tue 17/11/20		NA	Fri 6/11/20	Wed 25/11/20		1 day	787,788	
790	Bay No.2,3&4: Backfilling upto +3.0mPD	28 days	0 days	28 days	0%	Tue 24/11/20	Mon 28/12/20	NA	NA	Fri 18/12/20	Fri 22/1/21	21 days	1 day	789,785,781,76	
791	Bay No.4: Sheetpile Extraction (KD2)	12 days	0 days	12 days	0%	Tue 29/12/20	Tue 12/1/21	NA	NA	Sat 23/1/21	Fri 5/2/21	21 days	0.5 days	790	
792	North Approach Ramp (Bays No.5,6) (Next to KTSP)	141 days	0 days	141 days	0%	Wed 18/11/20	Wed 7/4/21	NA	NA	Thu 26/11/20	Sat 10/4/21	3 days			
793	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,	
794	Bay No.5: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme	r) 17 days	0 days	17 days	0%	Thu 10/12/20	Thu 31/12/20	NΔ	NA	Mon 14/12/20	Tue 5/1/21	3 days	1 day	793	
	(3)+(4)+(5)		-												
795	Bay No. 5: Wall & Column Casted and Formwork & Falsework upto Soffit c Top Slab(6)+(7)	of 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	
796	Bay No. 5: Top Slab Construction with Formwork & Falsework Erection & Removal (8)	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	
797	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	
798	Bay No.6: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme	r) 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	
799	(3)+(4)+(5) Bay No. 6: Wall & Column Casted and Formwork & Falsework upto Soffit c	of 27 days	0 days	27 days	0%	Mon 28/12/20	Thu 28/1/21	NA	NA	Wed 6/1/21	Fri 5/2/21	7 days	1 day	798	
800	Top Slab(6)+(7) Bay No. 6: Top Slab Construction with Formwork & Falsework Erection &			17 days	0%	Fri 29/1/21		NA	NA	Sat 6/2/21	Mon 1/3/21		1 day	798,799	
	Removal (8)														
801	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	
802	Bay No.5&6: Sheetpile Extraction (KD2)	6 days	0 days	6 days	0%	Mon 29/3/21	Wed 7/4/21	NA	NA	Thu 1/4/21	Sat 10/4/21	3 days	0.5 days	801,791	
803	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			
804	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	
805	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	
806	Bay 8: Base slab		0 days	9 days	0%	Tue 9/2/21	Mon 22/2/21		NA	Thu 25/2/21	Sat 6/3/21	11 days	-	804,816	
	·														
807	Bay 8: Wall	12 days	-	12 days	0%	Tue 23/2/21		NA	NA	Mon 8/3/21	Sat 20/3/21	11 days	1 day	806,819	
808	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	
809	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	
810	CH1087-1189 (100m): North Approach Ramp: Parapet, Central Median &	77 days	0 days	77 days	0%	Mon 19/4/21	Wed 21/7/21	NA	NA	Thu 23/9/21	Tue 14/12/21	122 days		718	
811	Furniture CH1087-1189: Parapet (28m per day per team) x 1 team + 6 day concreting	23 days	0 days	23 days	0%	Mon 19/4/21	Sat 15/5/21	NA	NA	Thu 23/9/21	Thu 21/10/21	130 days	2 day	809,776,821	
812	CH1087-1189: Central Median and Utilities Trough (6m per day per team) x	1 25 davs	0 davs	25 days	0%	Thu 27/5/21		NA	NA	Fri 22/10/21	Fri 19/11/21	122 days	-	811,236	
	team		-	-											
813	CH1087-1189: Road Furniture	21 days	-	21 days	0%	Sat 26/6/21	Wed 21/7/21		NA	Sat 20/11/21	Tue 14/12/21	122 days	5 days	812,358	
814	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			
815	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	
816	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	
817	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			
818	North Abutment	180 days		180 days	0%	Tue 15/9/20	Mon 26/4/21		NA	Tue 15/9/20	Mon 26/4/21	0 days			
			-	-								-	1,2	015	
819	North Abutment - Base Slab	25 days		25 days	0%	Tue 15/9/20	Thu 15/10/20		NA	Tue 15/9/20	Thu 15/10/20		1 day	815	
820	North Abutment Wall (3.85m thk)	37 days	0 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	
821	North Abutment Wall (0.5m thk) (KD2) (KD3)	28 days	0 days	28 days	0%	Sat 13/3/21	Sat 17/4/21	NA	NA	Sat 13/3/21	Sat 17/4/21	0 days	1 day	820	
822	Install bridge bearing	7 days	0 days	7 days	0%	Mon 19/4/21	Mon 26/4/21	NA	NA	Mon 19/4/21	Mon 26/4/21	0 days	0.5 days	821,736	
823	At Grade Road Works CH1000-2124	157 days	0 days	157 days	0%	Tue 10/8/21	Fri 18/2/22	NA	NA	Thu 4/11/21	Tue 1/3/22	9 days			
824	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	1 day	776,809,332,34	
825	CH1444.7-1560 At grade road works	45 days	0 days	45 days	0%	Wed 22/12/21	Fn 18/2/22	NA	NA	Wed 5/1/22	Tue 1/3/22	-	1 day	1293,826,219	
826	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	
827	Bridge 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			
828	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		
	_			-											
Title: Rev.	11 Prog with Progress	Summary			Inactive N			Duration-onl	-		Start-only		C		ernal Mi
as of 22-	May-20 Split Milestone	Project Surr Inactive Tas		1	Inactive S Manual T			<ul> <li>Manual Sum</li> <li>Manual Sum</li> </ul>			<ul> <li>Finish-only</li> <li>External Task</li> </ul>	<b>cs</b>	3	Dea	dline ical
	winestone 🔻	macuve 18	315		ivialiual I			Intatual Sull			<ul> <li>LAUTHALLASK</li> </ul>			Ch	ισαι



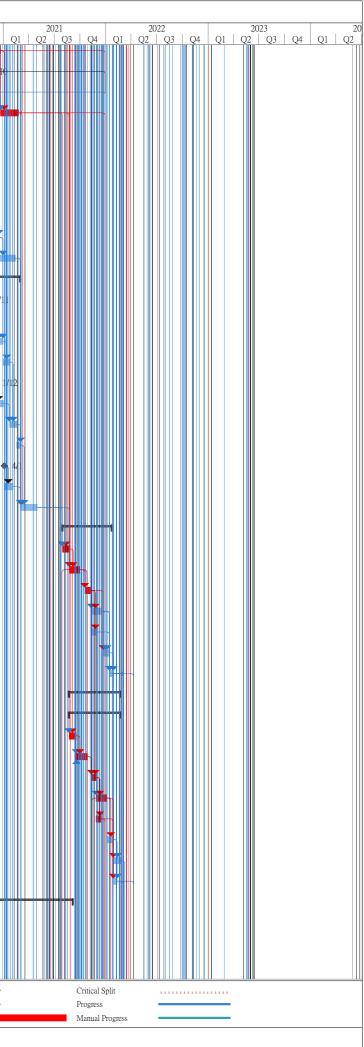
D Task	Name	Duration A	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	202	20
		Γ	Duration	Duration	Complete							Slack	IKA	r ieuecessois	Q2	
829			-	685.49 days?	0%	Thu 16/5/19	Sat 19/2/22	Thu 16/5/19		Mon 11/11/19	Wed 29/5/24	676 da				Π
830		0 days 0		0 days	0%	Thu 16/5/19	Thu 16/5/19		NA	Wed 29/5/24	Wed 29/5/24	1841 d				
831	CH1189: Bored Pile (A01-BP1) by Rig 1(Contractor Bear DDA Approval Risk)	61 days 4	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		
832	CH1189: Bored Pile (A01-BP2) by Rig 1 (Contractor Bear DDA Approval Risk)	29 days 2	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			
833	Abutment A01: Pile Testing (28d curing & 14 test) - 1 full-core to be carried out	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		é h
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		ľ
835	Mobilization of plant and material	6 days 6	5 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		
836	CH1229: Pre-drilling Works	21 days 2	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			
837	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				
838	Bored pile (P01-BP2) @ CH1229 by Rig 1 (Contractor Bear DDA Approval Risk)	44 days 4	14 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			
839		38 days 3	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		╢
840		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		
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		╋
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			- I r	╉
843	Excavation with Shoring Installation ~2600m3 Prod. Rate: 160m3/day/team	17 days 0	) days	17 days	0%	Wed 29/7/20	Mon 17/8/20	NA	NA	Tue 8/9/20	Sat 26/9/20	35 days	1 day	841		
844	Pilecap - Formwork Design and Method Statement Submission	0 days 0	) days	0 days	0%	Mon 15/6/20	Mon 15/6/20	NA	NA	Sat 29/8/20	Sat 29/8/20	75 days	1 day			15/0
845		30 days 0		30 days	0%	Mon 15/6/20	Tue 14/7/20		NA	Sat 29/8/20	Sun 27/9/20	75 days		844		
846		24 days 0		24 days	0%	Tue 18/8/20	Mon 14/9/20			Mon 28/9/20	Wed 28/10/20	35 days		845,843		$\mathbb{R}$
847	Backfill	14 days 0		14 days	0%	Tue 15/9/20	Wed 30/9/20			Thu 29/10/20	Fri 13/11/20	35 days		846		
848			) days	0 days	0%	Mon 7/9/20	Mon 7/9/20			Sat 10/10/20	Sat 10/10/20	33 days				
849		35 days 0		35 days	0%	Mon 7/9/20	Sun 11/10/20		NA	Sat 10/10/20	Fri 13/11/20	33 days		848		
850					0%	Wed 28/10/20			NA	Sat 10/10/20 Sat 14/11/20	Wed 13/1/21			847,211,849		
		49 days 0		49 days								15 days				
851		30 days 3		0 days	0%	Wed 20/11/19					Thu 19/12/19		0.5 days	835,836		
852		35 days 3		0 days	100%	Tue 11/2/20			Sun 22/3/20		Sun 22/3/20		0.5 days	851		T
853			) days	1 day?	0%	Thu 16/5/19	Thu 16/5/19		NA	Wed 29/5/24	Wed 29/5/24	1840 d				
854		11 days 0	-	11 days	0%	Wed 3/6/20	Mon 15/6/20		NA	Tue 9/6/20	Sat 20/6/20		0.5 days			
855		20 days 0		20 days	0%	Sat 20/6/20	Wed 15/7/20					1 day	1 day	854		
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		
857	Bored pile (P02-BP1) @ CH1269 (Contractor Bear DDA Approval Risk) (Rig 2)	26 days 2	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	-	$\square$
858	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		
859	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		
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			29
861	Pile Cap ELS - Temp. Works Design and Method Statement Comment & Appraoval	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		1
862		120 days 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				
863	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	861,858,140,859		
864	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		
865	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			
866	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		
867	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		
868	Backfill and extract sheet pile	11 days 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	2 day	867		
869	Pier - Temp. Works Design and Method Statement Submission	0 days 0	) days	0 days	0%	Mon 7/9/20	Mon 7/9/20	NA	NA	Thu 31/12/20	Thu 31/12/20	115 days	a 1 day			
870		30 days 0		30 days	0%	Mon 7/9/20	Tue 6/10/20		NA	Thu 31/12/20	Fri 29/1/21	115 days		869		
871		49 days 0		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		
872		340 days 0		340 days	0%	Mon 2/11/20	Tue 21/12/21			Tue 19/1/21	Wed 29/12/21			,		
873		0 days 0	-	0 days	0%	Mon 2/11/20	Mon 2/11/20			Tue 19/1/21	Tue 19/1/21	78 days	1 dav			
015		Judys U	, auys	0 uufs	0.0	141011 2/11/20	191011 2/11 1/20	11/1		100 17/1/21	100 17/1/21	10 uays	1 day			
itle: Rev.1	I Prod with Progress	Summary Project Summ	1		Inactive N			Duration-on	-		Start-only		с Э		nal Mile	ston:
as of 22-N	/lay-20	Project Summ nactive Task	iafy		Inactive S Manual T			<ul> <li>Manual Sun</li> <li>Manual Sun</li> </ul>	nmary Rollup 💼		<ul> <li>Finish-only</li> <li>External Task</li> </ul>		-	Dead		



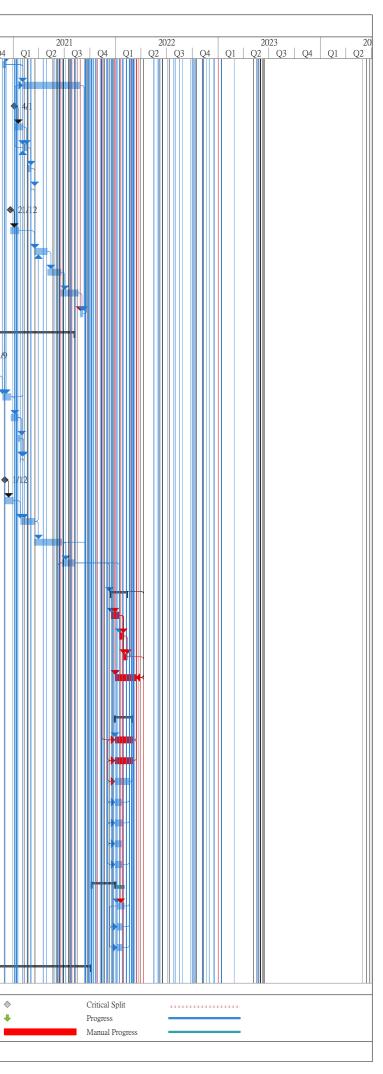
) (	Task Name		Duration	Actual	Remaining	Physical %	Early Start	Forly Einich	Actual Start	Actual Finish	Late Stort	Late Finish	Total	TRA	Predecessors	0	2020
	Task Name		Duration	Duration	Duration	Complete	Early Start			Actual Finish			Total Slack	IKA		Q2	
74	Bridge Deck - Temp. Works Design and Met Appraoval	hod Statement Comment &	35 days	0 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 day	873		
75	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 day	874,922		
76	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 days	875,871		
377	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 day	475,483,736,87	5	
878	CH1229-1311: Prestressing		18 days	0 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	0 days	12 days	0%	Fri 16/7/21	Thu 29/7/21	NA	NA	Fri 16/7/21	Thu 29/7/21	0 days	0.5 day	878		
880	CH1229-1311: Utility Trough (0.67m per day	per team) x 4 team	70 days	0 davs	70 days	0%	Fri 16/7/21	Thu 7/10/21	NA	NA	Thu 22/7/21	Wed 13/10/21	5 days	9 days	219,878		
881	CH1229-1311: Central Median (6m per day p		31 days		31 days	0%	Fri 16/7/21	Fri 20/8/21	NA	NA	Sat 2/10/21	Mon 8/11/21	65 days	-	878		
882	CH1229-1311: Parapet (28m per day per tean				21 days	0%	Fri 8/10/21	Tue 2/11/21		NA	Fri 15/10/21	Mon 8/11/21		3 days	880	-	
					-	0%									880.882.881		
883	CH1229-1311: Removal of Falsework (KD6)		42 days		42 days		Wed 3/11/21	Tue 21/12/21		NA	Tue 9/11/21	Wed 29/12/21		6 days			
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 day	881,358		
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 day	475,483,736,87		
888	Prestressing CH1269 - 1311 Bridge Spans	1	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 day	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		
890	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 22/12/21	NA	NA	Sat 11/12/21	Mon 3/1/22	7 days	3 days	889		
891	concreting CH1269-1311 : Central Median (6m per d	ay per team) x 1 team	15 days	0 days	15 days	0%	Thu 23/12/21	Wed 12/1/22	NA	NA	Wed 5/1/22	Fri 21/1/22	8 days	1 day	889,890		
892	CH1269-1311 : Road Furniture		15 days	0 days	15 days	0%	Thu 13/1/22	Sat 29/1/22	NA	NA	Sat 22/1/22	Fri 11/2/22	8 days	1 day	891,358		
893	Stage2: Bridge deck between CH1189-1229		823 days?		823 days?	0%	Thu 16/5/19	Sat 19/2/22	NA	NA	Tue 27/4/21	Wed 29/5/24	579 da	-	,		4
894	CH1189-1229: Deck Falsework erection		1 day?		1 day?	0%	Thu 16/5/19	Thu 16/5/19		NA	Wed 29/5/24	Wed 29/5/24	1840 d				
					-										050 000	_	
895	CH1189-1229: Deck Falsework erection		22 days	-	22 days	0%	Tue 27/4/21	Mon 24/5/21		NA	Tue 27/4/21	Mon 24/5/21		1 day	850,822		
896	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		2 day	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 day	896FS+14 days		
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 days	878,897		
899	CH1189-1229: Utility Trough (0.67m per day	y 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 days	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 day	897,881		
901	CH1189-1229 : Parapet (28m per day per tea	m) x 1 team + 6 day concreting	20 days	0 days	20 days	0%	Wed 3/11/21	Thu 25/11/21	NA	NA	Mon 17/1/22	Fri 11/2/22	61 days	5 day	899,882		
902	CH1189-1229 : Road Furniture		15 days	0 days	15 days	0%	Mon 31/1/22	Sat 19/2/22	NA	NA	Sat 12/2/22	Tue 1/3/22	8 days	1 day	900,892,358,90	Ī	
903	Part 3E - CH1311 to CH1372		652 days	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	31 days	0 days	0%	Tue 12/11/19	Tue 17/12/19	Tue 12/11/19	Tue 17/12/19	Tue 12/11/19	Tue 17/12/19	0 days	0.5 day			
905	Bored pile (P03-BP1) @ CH1311 (Rig 2) (Contr	actor Bear DDA Design Risk)	40 days	40 days	0 days	100%	Tue 17/3/20	Fri 8/5/20	Tue 17/3/20	Fri 8/5/20	Tue 17/3/20	Fri 8/5/20	0 days	0.5 day	904		
906	Bored pile (P03-BP2) @ CH1311 (Contractor Be		36 days		11 days	69%	Wed 22/4/20	Thu 4/6/20	Wed 22/4/20		Wed 22/4/20	Thu 4/6/20		3 day			
907		car DDA Design Misk) (Mg 2)				0%	Sat 6/6/20	Sat 18/7/20	NA		Sat 6/6/20	Sat 18/7/20			906FS+1 day,90		ļ
	Pile Testing (18 curing & 14 test)		35 days		35 days					NA				3 day		-	Ī
908	Proof-drilling Works		11 days		11 days	0%	Mon 20/7/20	Fri 31/7/20	NA	NA	Mon 20/7/20	Fri 31/7/20	-	2 days	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				ľ
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 Staten	nent 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 days	1 day			
912	Pilecap Formwork Design and Method Staten	nent 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 days	1 day	911		Ì
913	Excavation with Shoring Installation ~2600m	3 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	0 days	1 day	908		
914	Pilecap Formwork - design and Method State	ment Submission	0 days	0 days	0 days	0%	Mon 20/7/20	Mon 20/7/20	NA	NA	Fri 31/7/20	Fri 31/7/20	11 days	1 day			
915	Pilecap Formwork - Design and Method State	ement Comment & Appraoval	21 days	0 days	21 days	0%	Mon 20/7/20	Sun 9/8/20	NA	NA	Fri 31/7/20	Thu 20/8/20	11 days	1 day	914		
916	Pilecap structure		24 days	0 days	24 days	0%	Fri 21/8/20	Thu 17/9/20	NA	NA	Fri 21/8/20	Thu 17/9/20	0 days	1 day	915,908,913		
917	Backfill		13 days	0 days	13 days	0%	Fri 18/9/20	Mon 5/10/20	NA	NA	Fri 18/9/20	Mon 5/10/20	0 days	1 day	916		
918	Agree Interface Coordination Plan with CKP-KT	TW (HY/2014/07)	14 days		14 days	0%	Tue 6/10/20	Wed 21/10/20		NA	Tue 6/10/20	Wed 21/10/20		0 days	917		
			2 . auyo	5 44.90	r aujo	0.00	1 40 01 101 20				- 40 0/10/20		5 augs	5 aug 5			
itle: Re	ev.11 Prog with Progress		ummary	2021		Inactive M Inactive S			Duration-onl Manual Sum	-		Start-only Finish-only		с Э		ernal Mi dline	lle
as of 2	22-May-20 Split Milestone		roject Sum nactive Tasl			Manual Ta	-		Manual Sum			<ul> <li>Finish-only</li> <li>External Task</li> </ul>	CS	-	Crit		
										-							_



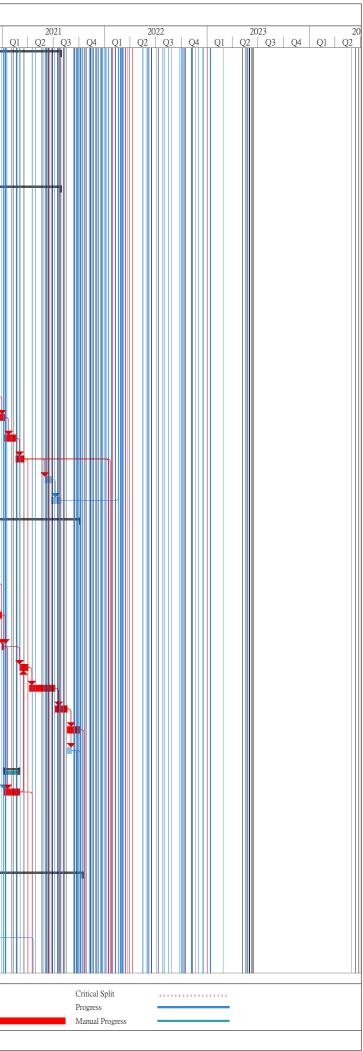
) Task	Name		Duration	Actual	Remaining	Physical %	Early Start		Actual Start			Late Finish	Total	TRA	Predecessors	20	)20
				Duration	Duration	Complete							Slack			Q2	
019	App.1.18 2.7(A)( c)	ntractor for sheet pile wall installation. PS	60 days	0 days	60 days	0%	Thu 22/10/20	Sun 20/12/20		NA	Thu 22/10/20	Sun 20/12/20	0 days	0 days	917,918		
20	Pier - Temp. Works Design an	d Method Statement Submission	0 days	0 days	0 days	0%	Mon 12/10/20	Mon 12/10/20	NA	NA	Mon 16/11/20	Mon 16/11/20	35 days	1 day			
21	Pier - Temp. Works Design an	d 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		
22	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 18/12/19	Wed 4/12/19	Wed 18/12/	Wed 4/12/19	Wed 18/12/19	0 days	0.5 days			₩
924	Diversion of existing 150mm	lia. Watermain (agreed)	54 days	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) @ CH12	351 (Rig 2)	52 days	1 day	51 days	0%	Fri 22/5/20	Wed 21/10/20	Fri 22/5/20	NA	Fri 22/5/20	Tue 19/1/21	73 days	3 days	923,856	<b>.</b>	
926	Bored pile (P04-BP1) @ CH12	351 (Rig 2)	53 days	0 days	53 days	0%	Tue 11/8/20	Tue 13/10/20	NA	NA	Mon 16/11/20	Tue 19/1/21	80 days	3 days	202,924,923,925	Ļ	
927	Pile Testing (14d curing & 14	test)	35 days	0 days	35 days	0%	Thu 22/10/20	Wed 2/12/20	NA	NA	Wed 20/1/21	Thu 4/3/21	73 days	3 days	926,925		
928	Proof-drilling Works		11 days	0 davs	11 days	0%	Thu 3/12/20	Tue 15/12/20	NA	NA	Fri 5/3/21	Wed 17/3/21	73 days	2 days	927		
929	Pile Cap P04 @ CH1351 with	FIS	47 days	-	47 days	0%	Wed 16/12/20			NA	Thu 1/4/21	Mon 31/5/21	85 days		933SS,928		
930	Pile Cap @ CH1351			-	97 days	0%	Mon 2/11/20	Mon 1/3/21		NA	Tue 16/2/21	Mon 31/5/21			75566,720		
	-		97 days	-									73 days	1.1			
931		Iethod Statement Submission	-	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20		NA	Tue 16/2/21	Tue 16/2/21	106 days		001		
932		Aethod Statement Comment & Appraoval	30 days	-	30 days	0%	Mon 2/11/20	Tue 1/12/20		NA	Tue 16/2/21	Wed 17/3/21	106 days		931		
933	Drive sheetpile (~75m). Pro	od. 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		
934	Excavation with Shoring In	stallation ~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			
936	Pilecap Formworks - Desig	n and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Tue 1/12/20	Wed 30/12/20	NA	NA	Thu 25/3/21	Fri 23/4/21	114 days	1 day	935		
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		
938	Backfill and extract sheet p	ile	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		
939	Pier - Temporary Design ar	nd Method Statement Submission	0 days	0 days	0 days	0%	Mon 4/1/21	Mon 4/1/21	NA	NA	Sun 2/5/21	Sun 2/5/21	118 days	1 day			
940	Pier - Temporary Design ar	id Method Statement Comment & Appraoval	30 days	0 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		49 days	0 days	49 days	0%	Tue 2/3/21	Fri 30/4/21	NA	NA	Tue 1/6/21	Thu 29/7/21	73 days	1 day	938,922,211,940		
942	Stage 3: Bridge deck between	CH1311-1351	145 days	-	145 days	0%	Fri 30/7/21	Fri 21/1/22	NA	NA	Fri 30/7/21	Sat 29/1/22	0 days				
943	CH1311-1351: Deck Falsev		21 days	-	21 days	0%	Fri 30/7/21	Mon 23/8/21		NA	Fri 30/7/21	Mon 23/8/21		3 days	941,922,879		
944	CH1311-1351: Structure de			-	-												
		CK	30 days	-	30 days	0%	Tue 24/8/21	Tue 28/9/21		NA	Tue 24/8/21	Tue 28/9/21	0 days		475,483,736,896		
945	CH1311-1351: Prestressing		21 days		21 days	0%		Wed 10/11/21		NA		Wed 10/11/21		3 days	944FS+14 days,8		
946	CH1311-1351: Utility Trou	gh (0.67m per day per team) x 4 team	30 days	0 days	30 days	0%	Thu 11/11/21	Wed 15/12/21		NA	Fri 26/11/21	Mon 3/1/22	13 days		219,880,945		
947	CH1311-1351: Central Med	lian (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		
948	CH1311-1351: Parapet (28)	n 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		
949	CH1311-1351: Road Furnit	ure	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		
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				
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				
952	CH1351-1386: Deck Falsev	vork 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+		
953	CH1351-1386: Structure de	ck	30 days	0 days	30 days	0%	Fri 17/9/21	Mon 25/10/21	NA	NA	Fri 17/9/21	Mon 25/10/21	0 days	5 days	952,736,976		
954	CH1351-1386: Prestressing		14 days	0 days	14 days	0%	Thu 11/11/21	Fri 26/11/21	NA	NA	Thu 11/11/21	Fri 26/11/21	0 days	5 days	953FS+14 days,9		
955	CH1351 - CH1386: Utilitv	Trough (0.67m per day per team) x 4 team	30 days		30 days	0%	Sat 27/11/21	Tue 4/1/22	NA	NA	Sat 27/11/21	Tue 4/1/22	0 days	3 days	219,954		
956	-	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		3 days	954		
957		$(28m \text{ per day per team}) \times 1 \text{ team} + 6 \text{ day}$	20 days		20 days	0%	Wed 5/1/22	Thu 27/1/22		NA	Wed 12/1/22	Mon 7/2/22		4 days	955		
	concreting				-												
958	CH1351-1386 Falsework re		19 days		19 days	0%	Fri 28/1/22	Tue 22/2/22		NA	Tue 8/2/22	Tue 1/3/22		1 day	955,957		
959	CH1351 - CH1386: Road F		8 days	-	8 days	0%	Fri 28/1/22		NA	NA	Mon 14/2/22	Tue 22/2/22	11 days	2 day	956,358,957		
960	Part 1 - CH1386 to CH1394 South		352 days	-	352 days	0%	Fri 3/7/20		NA	NA	Sat 25/7/20	Thu 16/9/21	10 days				ſ
961	Bored Pile (A02-BP2) @ CH1	386 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) @ CH1	386 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+42		
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		
		Task	Summary		<b></b>	Inactive N	Vilestone 🔿		Duration-on	lv		Start-only	1	<u>г</u>	Fyte	nal Mile	estor
	1 Prog with Progress lay-20		Project Sum	mary	-	Inactive S				nmary Rollup 💼		Finish-only		3	Dead		
35 OT 22-10		Milestone 🔶	Inactive Tas			Manual T			Manual Sun			External Tasl				al	



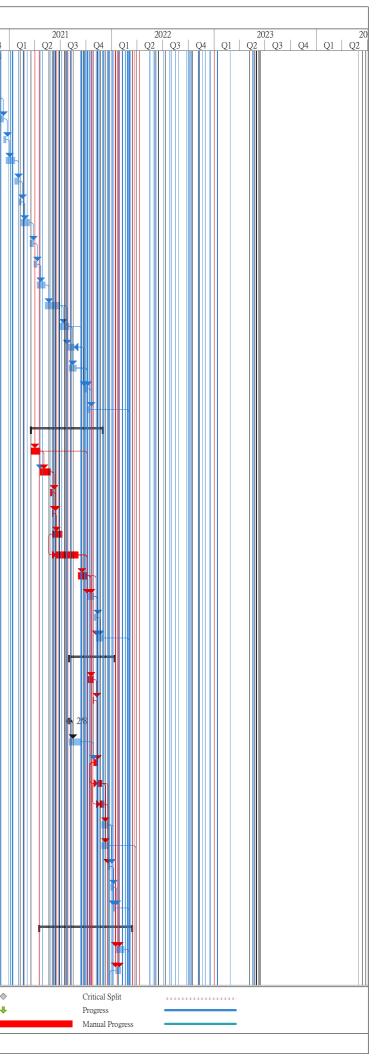
Ta	ask Name		Duration	Actual	Remaining	Physical %	Early Start		ract No. ED/	Actual Finis		Late Finish	Total TRA	Predecessors	21	020
				Duration	Duration	Complete							Slack		Q2	
964	Proof-drilling Works		11 days	-	11 days	0%	Mon 23/11/20		NA	NA	Tue 2/2/21	Wed 17/2/21	58 days 2 day			
965	South Abutment		166 days	-	166 days	0%	Wed 3/2/21		NA	NA	Thu 18/2/21	Tue 7/9/21	10 days	968SS,964		
966	South Abutment ELS- Des	ign 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	1		
67	South Abutment ELS - Des	sign 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		
68	Drive sheetpile (~900m) Pr	od. 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 day	rs 964,967,980		
59	Excavation ~1,344m3 & la	teral support. Prod. Rate: 160m3/day/team	11 days	0 days	11 days	0%	Fri 19/2/21	Wed 3/3/21	NA	NA	Mon 22/3/21	Tue 6/4/21	26 days 2 day	rs 968		
70	Blinding layer		1 day	0 days	1 day	0%	Thu 4/3/21	Thu 4/3/21	NA	NA	Wed 7/4/21	Wed 7/4/21	26 days 0 day	rs 969		
1	South Abutment Formwork	- Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 21/12/20	Mon 21/12/20	NA	NA	Tue 9/3/21	Tue 9/3/21	78 days 1 day	1		
2	South Abutment Formwork Appraoval	c - Design and Method Statement Comment &	30 days	0 days	30 days	0%	Mon 21/12/20	Tue 19/1/21	NA	NA	Tue 9/3/21	Wed 7/4/21	78 days 1 day	971		
3	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 day	vs 970,972,986	-	
4	Wall (3.85m thk). Prod. Ra	te: 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 day	rs 973	-	
5	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 day	rs 974	-	
5	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	975,736,822,9	5	
7	South Approach Ramp - CH12	394-1444.7 - Total 8 bays (4 bay/side)	259 days	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		-	
3		S - Temp. Works Design and Method Statement		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	1		
)	Submission	S - Temp. Works Design and Method Statement	30 days	-	30 days	0%	Mon 21/9/20	Tue 20/10/20		NA	Sun 15/11/20	Mon 14/12/20	55 days 1 day			
	Comment & Approval Drive sheetpile (~240m) Pr		26 days	-	26 days	0%	Mon 23/11/20	Tue 22/12/20		NA	Tue 15/12/20	Sat 16/1/21	19 days 2 day		_	
		teral support. Prod. Rate: 160m3/day/team	19 days	-	19 days	0%	Wed 23/12/20		NA	NA	Mon 18/1/21	Mon 8/2/21	19 days 2 day		_	
2	Rock Replacement	tera support. 1100. Rate. 100m5/day/team		0 days	7 days	0%	Sun 17/1/21		NA	NA	Tue 9/2/21	Mon 15/2/21	23 days 1 day			
	-	Observe delan		-	-											
;	Blinding layer. Prod. Rate:			0 days	1 day	0%	Mon 25/1/21	Mon 25/1/21		NA	Tue 16/2/21	Tue 16/2/21	16 days 1 day			
		orks Design and Method Statement Submission		0 days	0 days	0%	Tue 1/12/20	Tue 1/12/20		NA	Mon 18/1/21	Mon 18/1/21	48 days 1 day			
5	Appraoval	mworks Design and Method Statement Comment &	30 days	0 days	30 days	0%	Tue 1/12/20	Wed 30/12/20		NA	Mon 18/1/21	Tue 16/2/21	48 days 1 day			
6	6 x Base Slab Prod. Rate: 1	2d/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 day	/s 983,985,244		
7	6 x Wall. Prod. Rate: 12d/b	ay/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 day	rs 986		
8	Backfilling ~4,765.89m3 w +12d shoring removal x 2 (	vithin approach ramp to formation level (160m3/day) considered time for SRT)	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 day	rs 987		
39	CH1386-1444: South Approac	h 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		
0	CH1386-1444: Central Me team	dian and Utilities Trough (5m per day per team) x 1	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 day	vs 253,956		
1	CH1386-1444: Parapet (10	m per day per team) x 2 team + 2 team x 6 day	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 day	rs 988,253,990		
2	concreting CH1386-1444: Road Furni	ture	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	-	
3	CH1087 - 1444: Bitumen Pavi	ng 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	,ç	
1	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		-	
5	CH1087-1311 (224m): Utility La	ying (by Others) (Agreed)	63 days	0 days	63 days	0%	Wed 29/12/21	Tue 1/3/22	NA	NA	Wed 29/12/21	Tue 1/3/22	0 days		-	
96	CLP (132kV)		63 days	0 days	63 days	0%	Wed 29/12/21	Tue 1/3/22	NA	NA	Wed 29/12/21	Tue 1/3/22	0 days 1 day	899,955SS+32	d	
97	CLP (11kV)		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 1 day	996SS	_	
98	HKCG		53 days	-	53 days	0%	Wed 29/12/21		NA	NA	Sat 8/1/22	Tue 1/3/22	10 days 1 day		_	
99	CATV		23 days		23 days	0%	Wed 29/12/21	Thu 20/1/22		NA	Thu 3/2/22	Fri 25/2/22	36 days 1 day			
00	Towngas telecom		27 days	-	27 days	0%	Wed 29/12/21 Wed 29/12/21	Mon 24/1/22		NA	Thu 3/2/22	Tue 1/3/22	36 days 1 day			
	_			-	-	0%										
01	PCCW-HKT	- D()()	23 days	-	23 days		Wed 29/12/21	Thu 20/1/22		NA	Sun 6/2/22	Mon 28/2/22	39 days 1 day			
02	Fresh and Salt Watermains (by		24 days		24 days	0%	Wed 29/12/21	Fri 21/1/22		NA	Sun 6/2/22	Tue 1/3/22	39 days 1 day	1001SS		
)3	CH1311-1396 (85m): Utility Lay	ing (by Others) (Agreed)	84 days		84 days	0%	Thu 7/10/21	Wed 29/12/21		NA	Fri 4/2/22	Tue 1/3/22	62 days			
)4	CLP (11kV)		26 days	-	26 days	0%	Wed 5/1/22	Sun 30/1/22		NA	Fri 4/2/22	Tue 1/3/22	30 days 1 day			
05	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		
006	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		
007	Underpass and Depressed Road		619 days	142.15 days	476.85 days	0%	Tue 3/9/19	Mon 4/10/21	Tue 3/9/19	NA	Tue 3/9/19	Tue 1/3/22	120 days			
o. Do:	11 Prog with Progress	Task	Summary			Inactive N	Vilestone 🔷		Duration-on	ly		Start-only	C	Ez	ternal Mil	ilest
	v.11 Prog with Progress -May-20	Split	Project Sum	-		Inactive S	Summary		1 Manual Sun	nmary Rollup 📲		Finish-only	Э	De	adline	
	2	Milestone 🔶	Inactive Tasl	k		Manual T	`ask		Manual Sun	nmary I		External Task	S	Ci	itical	



D	Task Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	ract No. ED/ Actual Start	Actual Finish		Late Finish	Total	TRA	Predecessors	202	0
1008	North Depressed Rd (CH1560-1720)		Duration 211.42 days	Duration 350.58 days	Complete 0%	Tue 3/9/19	Tue 27/7/21	Tue 3/9/19	NA	Tue 3/9/19	Tue 1/3/22	Slack 177 days				Q3
				-												
1009 1010	Ground Monitoring Works Mobilization	17 days		0 days 0 days	100%	Tue 3/9/19 Fri 1/11/19	Thu 19/9/19 Fri 8/11/19	Tue 3/9/19 Fri 1/11/19	Thu 19/9/19 Fri 8/11/19		Thu 19/9/19 Fri 8/11/19		2 days			
			7 days										0 days			
1011	Complete the Diveration of Existing Overhang Cable along the North Depressed Rd		1 day	0 days	100%	Sat 26/10/19		Sat 26/10/19			Sat 26/10/19	0 days	0.5 days	1000 1010 1011		
1012	Drive Sheet Pile (380m, 15,000m penetration depth) Prod. Rate by 2 teams (around 125m penetration depth per day per team)	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		
1013	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		
1014	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		-	++-	╇
1015	Excavation with Shoring Installation - Prod Rate: 270m3/d/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		
1016	(~36,611m3). 1 team 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	•	
1017	May 2020 - Inclement Weather		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		₽∥
1018	Rock Fill Replacement (Final Level)		0 days	6 days	0%	Sat 1/8/20		NA	NA	Mon 20/7/20	Sat 25/7/20	-11 days		1013,1015,1017		
1019	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		
1019	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	-11 days		1019,1015,1018		
	-			-												
1021	Backfilling and 4th Level Shoring Removal	18 days	-	18 days	0%	Mon 7/9/20		NA	NA	Tue 25/8/20	Mon 14/9/20	-11 days		1020		
1022	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	-11 days		1021		
1023	Backfilling and 3rd Level Shoring Removal	18 days	0 days	18 days	0%	Thu 29/10/20	Wed 18/11/20		NA	Thu 15/10/20	Thu 5/11/20	-11 days		1022		
1024	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		
.025	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		
026	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		
027	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		
028	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		
029	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		
030	CH1720 - CH1850 (130m long) (2 x teams)	477 days	0 days	477 days	0%	Mon 15/6/20	Mon 4/10/21	NA	NA	Mon 15/6/20	Mon 4/10/21	0 days			- P-	_
031	Drive sheet pile (approx. 17000m penetration depth, 380m/day)	46 days	0 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			<b>_</b> _
032	Pumping Test	22 days	0 days	22 days	0%	Mon 10/8/20	Thu 3/9/20	NA	NA	Mon 10/8/20	Thu 3/9/20	0 days	1 days	1031,1045		×
033	CH1720 - CH1850 (130m long) (2 x teams) Top Portion: Excavation with	42 days	0 days	42 days	0%	Fri 4/9/20	Sat 24/10/20	NA	NA	Fri 4/9/20	Sat 24/10/20	0 days	2 day	1032		
	Shoring Installation = 23,000 cu.m. (320m3/d/team x 2)															
034	CH1720 - CH1850 (130m long) (2 x teams) Bottom Portion: Excavation with Shoring Installation = 23,876 cu.m. (250m3/d/team x 2)	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		
035	Rock fill - Prod. Rate: (3,469m3) (160m3/d/team. 2 team)	6 days	0 davs	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		
036	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	-	2 day	1035,1042,262		
037	Wall - 8 bays. Prod. Rate: 3 level of shoring 12d/bay/level/team. 4 teams	75 days		75 days	0%	Tue 6/4/21		NA	NA	Tue 6/4/21	Tue 6/7/21	0 days	3 days	1036		
038	Top Slab - 8 bays. Prod. Rate: 18d/team/bay, 4 teams	38 days		38 days	0%	Wed 7/7/21	Thu 19/8/21		NA	Wed 7/7/21	Thu 19/8/21		2 day	1030		
	Falsework Removal										Mon 4/10/21					
039		37 days		37 days	0%	Fri 20/8/21	Mon 4/10/21		NA	Fri 20/8/21			2 day	1038		
1040	Sheetpile Extraction and Backfill	13 days		13 days	0%	Fri 20/8/21		NA	NA	Fri 17/9/21	Mon 4/10/21	24 days	1 day	1038		
1041	Underground Plant Room next to Underpass	45 days	-	45 days	0%	Wed 6/1/21		NA	NA	Wed 6/1/21	Tue 2/3/21	0 days				
.042	Underground pump house structure	45 days		45 days	0%	Wed 6/1/21		NA	NA	Wed 6/1/21	Tue 2/3/21	0 days	3 day	714,1035,262,28		
.043	Underpass & South Depressed Road CH1850-1950 - (100m long) 8 bays x 13.5m long	120 days	65.36 days	54.64 days	0%	Wed 26/2/20	Thu 23/7/20	Wed 26/2/20	NA	Wed 26/2/20	Sat 8/8/20	14 days			$\uparrow \uparrow$	1
1044	Drive sheet pile (12,530m embedded length sheetpile) Prod. Rate 380m/team/day	32 days	32 days	0 days	100%	Wed 26/2/20	Mon 6/4/20	Wed 26/2/20	Mon 6/4/20	Wed 26/2/20	Mon 6/4/20	0 days	5 days	h		
1045	Pumping Test	80 days	29 days	51 days	36%	Fri 17/4/20	Thu 23/7/20	Fri 17/4/20	NA	Fri 17/4/20	Sat 8/8/20	14 days	2 days	1044	-	┙┤
1046	Underpass & South Depress Road (CH1850 to CH1950)	539 days	27.64 days	511.36 days	0%	Thu 23/4/20	Wed 13/10/21	Thu 23/4/20	NA	Thu 23/4/20	Tue 1/3/22	139 days			++	$\rightarrow$
1047	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 🕨	++	┏┐┨
1048	Excavation with Shoring Installation (Lower Portion) - Prod. Rate: 270m3/d/team. 1	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		*
1049	team 16,000m3) 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	days 1047,1048		
1050	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		
												-	_			
itle [.] R4	ev.11 Prog with Progress	Summary			Inactive 1	Milestone 🔷		Duration-on	ly		Start-only		C	Extem	al Miles	stone
	2-May-20	Project Sumi		1	Inactive S	-			nmary Rollup 📕		Finish-only		3	Deadli		
as of 2	2-May-20	nactive Tasl		l	Manual T	-		Manual Sun Manual Sun			External Task	IS	-			itical

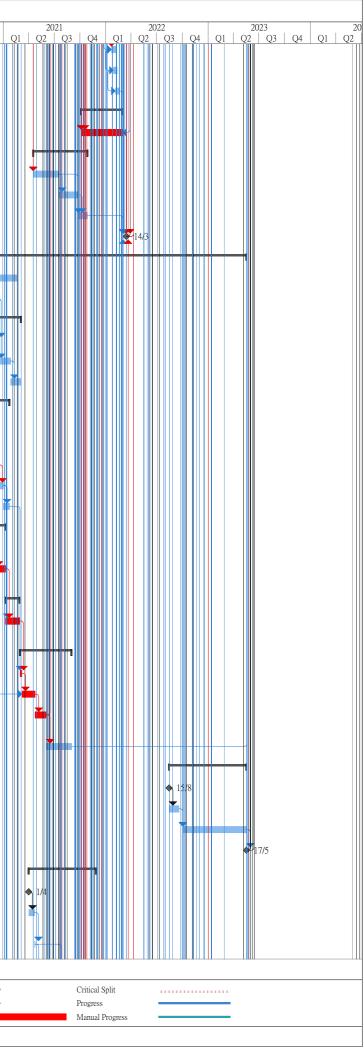


Ta	ask Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Stor	t Actual Finis	sh Late Start	Late Finish	Total TRA	Predecessors	20
			Duration	Duration	Complete							Slack	1 1000000015	Q2
051	Underpass Formworks Design and Method Statement Submission		0 days	0 days	0%	Mon 14/9/20	Mon 14/9/20		NA	Tue 3/11/20	Tue 3/11/20	50 days 1 day	1051	
1052	Underpass Formworks Design and Method Statement Comment & Appraoval		-	30 days	0%	Mon 14/9/20	Tue 13/10/20		NA	Tue 3/11/20	Wed 2/12/20	50 days 1 day	1051	
1053	Casting base slab (12d/bay/team x 3) (6 bays)	26 days		26 days	0%	Wed 28/10/20			NA	Thu 3/12/20	Tue 5/1/21	31 days 2 day	1050,1052,262	
1054	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	
1055	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	
1056	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	
1057	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	
1058	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	
1059	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	
1060	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	
1061	S1 Shoring ELS Removal + North/South End Re-propping	7 days	0 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	
1062	Scaffold erection for roof slab	24 days	0 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	
1063	Roof slab construction (18d/bay/team x 3) (6 bays)	42 days	0 days	42 days	0%	Sat 8/5/21	Mon 28/6/21	NA	NA	Wed 16/6/21	Wed 4/8/21	31 days 4 days	1062	
1064	Waterproofing & Backfilling upto tunnel top	28 days	0 days	28 days	0%	Tue 29/6/21	Sat 31/7/21	NA	NA	Thu 5/8/21	Mon 6/9/21	31 days 2 day	1063	
1065	Scaffold removal after 28 days from casting	22 days	0 days	22 days	0%	Mon 26/7/21	Thu 19/8/21	NA	NA	Thu 13/1/22	Thu 10/2/22	141 days 1 day	1063FS+22 days	
1066	Sheetpile extraction (Ch1851-CH1950)	22 days	0 days	22 days	0%	Mon 2/8/21	Thu 26/8/21	NA	NA	Tue 7/9/21	Mon 4/10/21	31 days 1 day	1064	
1067	Emergency walkway & median barrier installation	9 days		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	
1068	Parapet installation		0 days	7 days	0%	Wed 6/10/21	Wed 13/10/21		NA	Tue 22/2/22	Tue 1/3/22	112 days 1 day	1067	
1069	CH1950 - CH2020 (70m long) (2 x teams) 4 bays x 17.5m long - Average 3 laye	-	-	209 days	0%	Fri 19/3/21	Mon 29/11/21		NA	Sat 6/3/21	Tue 1/3/22	-11 days	1007	
1070	Shoring Drive sheet pile ( approx. 8,800m embedded length sheetpile), 380m/team/day			24 days	0%	Fri 19/3/21	Mon 19/4/21		NA	Sat 6/3/21	Tue 6/4/21	-11 days 1 day	1027	
1070	Excavation with Shoring Installation - Prod. Rate: 2 teams x 250m3/d/team.			30 days	0%	Tue 20/4/21	Wed 26/5/21		NA	Wed 7/4/21	Wed 12/5/21	-11 days 1 day	1027	
	(14,500m3)	30 days											· ·	
1072	Rock Fill Replacement	-	0 days	6 days	0%	Thu 27/5/21		NA	NA	Thu 13/5/21	Thu 20/5/21	-11 days 0.5 days	1071	
1073	Blinding		0 days	1 day	0%	Thu 3/6/21		NA	NA	Fri 21/5/21	Fri 21/5/21	-11 days 0.5 days	1071,1072	
1074	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	
1075	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	
1076	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	
1077	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	
1078	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	
1079	CH1950 to CH2020: Parapet installation	20 days	0 days	20 days	0%	Sat 6/11/21	Mon 29/11/21	NA	NA	Mon 7/2/22	Tue 1/3/22	73 days 2 day	1076,1077,1078	
1080	South Depressed Road CH2020-2050 (40m long) (2 x teams) 5 bays x 13.5m lon Average 2 layers of shoring	g - 134 days	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		
1081	Open Excavation	17 days	0 days	17 days	0%	Tue 5/10/21	Mon 25/10/21	NA	NA	Mon 20/9/21	Mon 11/10/21	-11 days 3 days	1076	
1082	Blinding	2 days	0 days	2 days	0%	Tue 26/10/21	Wed 27/10/21	NA	NA	Tue 12/10/21	Wed 13/10/21	-11 days 0 days	1081	
1083	South Depress Road - Formworks Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 2/8/21	Mon 2/8/21	NA	NA	Sun 5/9/21	Sun 5/9/21	34 days 1 day		
1084	South Depress Road - Formworks Design and Method Statement Comment &	40 days	0 days	40 days	0%	Mon 2/8/21	Fri 10/9/21	NA	NA	Sun 5/9/21	Thu 14/10/21	34 days 1 day	1083	
1085	Appraoval Base Slab - 3 bays. Prod. Rate: 12d/team/bay include pipe laying. 2 teams	12 days	0 days	12 days	0%	Thu 28/10/21	Wed 10/11/21	NA	NA	Fri 15/10/21	Thu 28/10/21	-11 days 2 day	1082,1084,314	
1086	Wall - 3 bays. Prod. Rate: 2 level of shoring 12d/bay/level/team. 2 teams	12 days	0 days	12 days	0%	Fri 12/11/21	Thu 25/11/21	NA	NA	Sat 30/10/21	Fri 12/11/21	-11 days 0.5day	1085SS+13	
1087	Wall - 3 bays. Prod. Rate: 2 level of shoring 12d/bay/level/team. 2 teams	12 days		12 days	0%	Sat 20/11/21		NA	NA	Mon 8/11/21	Sat 20/11/21	-11 days 0.5day	days 1086SS+7 days	
1088	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	
1089	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	
1090	Emergency walkway & median barrier installation		0 days	6 days	0%	Sat 18/12/21	Fri 24/12/21		NA	Wed 9/2/22	Tue 15/2/22	39 days 2 days	1086,1088,323	
	Pavement work			-	0%			NA	NA					
1091		-	0 days	6 days		Tue 28/12/21				Wed 16/2/22	Tue 22/2/22	39 days 1 day	1090	
1092	Parapet installation		0 days	6 days	0%	Wed 5/1/22	Tue 11/1/22		NA	Wed 23/2/22	Tue 1/3/22	39 days 1 day	1090,1088,1091	
1093	5.0 CH1386-1950 (564m) : Utlity Laying Team 2 (by Others)	332 days		332 days	0%	Sat 17/4/21	Mon 14/3/22		NA	Thu 19/8/21	Tue 1/3/22	-13 days		
1094	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	
1095	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	
itle: Por	v.11 Prog with Progress	Summary			Inactive 1	Milestone 🔷		Duration	-only		Start-only	C	Exte	rnal Mil
	-May-20			1	Inactive S				Summary Rollup	•	Finish-only	3	Dead	
	Milestone	Inactive Task	k		Manual T	'ask		Manual	Summary		External Tas	ks	Criti	cal

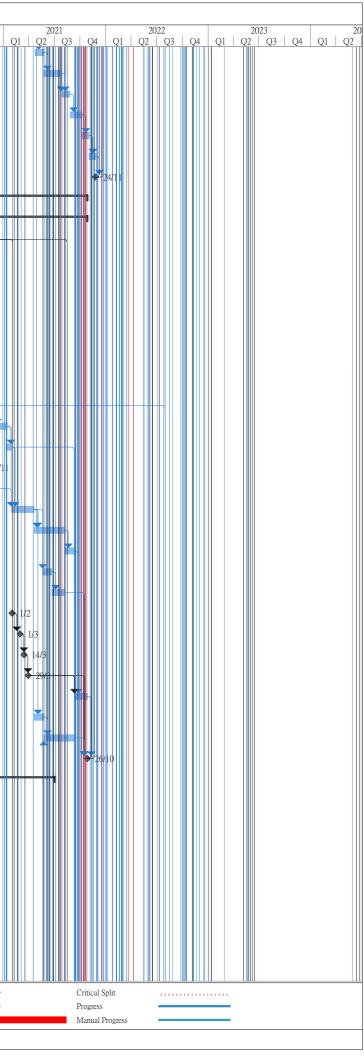


T	ask Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Star	t Actual Ein	KTD Project	Late Finish	Total	TRA	Predecessors	2	020
			Duration	Duration	Complete							Slack			Q2	Q
96	HGC	15 days	0 days	15 days	0%	Fri 21/1/22	Fri 4/2/22	NA	NA	Tue 1/2/22	Tue 15/2/22	11 days		1095SS+7 days,		
97	CATV	13 days	0 days	13 days	0%	Fri 28/1/22	Wed 9/2/22	NA	NA	Tue 8/2/22	Sun 20/2/22	11 days	1 day	1096SS+7 days		
98	Towngas telecom	15 days	0 days	15 days	0%	Fri 4/2/22	Fri 18/2/22	NA	NA	Tue 15/2/22	Tue 1/3/22	11 days	1 day	1097SS+7 days		
99	North & South Depress Raod and Underpass: Finishing and E&M Works	120 days	0 days	120 days	0%	Tue 5/10/21	Tue 1/3/22	NA	NA	Tue 5/10/21	Tue 1/3/22	0 days				
00	Finishing & Fitting Out Work, and E&M Works Installation	120 days	0 days	120 days	0%	Tue 5/10/21	Tue 1/3/22	NA	NA	Tue 5/10/21	Tue 1/3/22	0 days	8 days	306,271,323,108		
101	Pump Room Next to Underpass: Finishing and E&M Works	158 days	0 days	158 days	0%	Sat 17/4/21	Tue 26/10/21	NA	NA	Thu 19/8/21	Tue 1/3/22	102 days				
102	Finishing Works and E&M installation	73 days	0 days	73 days	0%	Sat 17/4/21	Thu 15/7/21	NA	NA	Thu 19/8/21	Mon 15/11/21	102 days	3 days	1042FS+36 days		
103	Pump Installation	60 days	0 days	60 days	0%	Fri 16/7/21	Fri 24/9/21	NA	NA	Tue 16/11/21	Thu 27/1/22	102 days	2 days	1102		
104	Testing and Commissioning	25 days	0 days	25 days	0%	Sat 25/9/21	Tue 26/10/21	NA	NA	Fri 28/1/22	Tue 1/3/22	102 days	1 days	1102,1103		
105	Planned Completion for Section 1	0 days	0 days	0 days	0%	Mon 14/3/22	Mon 14/3/22	NA	NA	Tue 1/3/22	Tue 1/3/22	-13 days		1408,1414,1068,		
106	Sections 2,4 and 8	824 days	0 days	824 days	0%	Mon 10/8/20	Wed 17/5/23	NA	NA	Mon 17/8/20	Wed 29/5/24	6 days				
107	Offsite 14 units of precast box culvert with outfall fabrication	100 days	0 days	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		
108	MDN application	45 days		45 days	0%	Mon 26/10/20	Wed 9/12/20		NA	Sun 21/1/24	Tue 5/3/24	1182 d				
1103	Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30)	67 days		67 days	0%	Thu 10/12/20		NA	NA	Wed 6/3/24	Wed 29/5/24	962 days				
1109	Installation of Silt Curtain with Concrete Sinkers				0%	Thu 10/12/20	Wed 16/12/20		NA	Thu 23/5/24	Wed 29/5/24 Wed 29/5/24	902 days		1108		
			0 days	6 days												
111	Demolition of Existing Seawall	37 days		37 days	0%	Thu 10/12/20	Mon 25/1/21		NA	Wed 6/3/24	Mon 22/4/24	962 days	-	1108		
112	Grade 200 rock filing and placing levelling stone	30 days		30 days	0%	Tue 26/1/21		NA	NA	Tue 23/4/24	Wed 29/5/24	962 days	I day	1111		
113	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				
114	Temporary Works Design Preparation	25 days	0 days	25 days	0%	Mon 10/8/20	Mon 7/9/20	NA	NA	Mon 17/8/20	Mon 14/9/20	6 days	1 days			
115	Comment by PM	25 days	0 days	25 days	0%	Tue 8/9/20	Thu 8/10/20	NA	NA	Tue 15/9/20	Thu 15/10/20	6 days	1 days	1114		
116	Sheetpiling Installation with Grouting & Pumping Test (56m long on plan)	50 days	0 days	50 days	0%	Fri 16/10/20	Mon 14/12/20	NA	NA	Fri 16/10/20	Mon 14/12/20	0 days	1 day	1420,1423,1115		
117	Excavation with Shoring Installation (1350 cu.m., 150 cu.m./d)	12 days	0 days	12 days	0%	Tue 15/12/20	Wed 30/12/20	NA	NA	Tue 22/12/20	Thu 7/1/21	6 days	3 day	1116		
118	Preparation of formation and laying of blinding layer	18 days	0 days	18 days	0%	Thu 31/12/20	Thu 21/1/21	NA	NA	Thu 4/2/21	Sat 27/2/21	29 days	0.5 day	1117		
119	CH70 to CH30 ELS Works	43 days	0 days	43 days	0%	Mon 16/11/20	Thu 7/1/21	NA	NA	Mon 16/11/20	Thu 7/1/21	0 days				
120	Sheetpiling Installation (80m on plan)	14 days	0 days	14 days	0%	Mon 16/11/20	Tue 1/12/20	NA	NA	Mon 16/11/20	Tue 1/12/20	0 days	0.5 day	1116SS+25 days		
121	Excavation with Shoring Installation (4500 cu.m., 160 cu.m./d x 1 team) and	29 days	0 days	29 days	0%	Wed 2/12/20	Thu 7/1/21	NA	NA	Wed 2/12/20	Thu 7/1/21	0 days	1 day	1120		
	Preparation of Formation and Laying of Blinding Layer															
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			
123	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		
124	Precast Units Installation	151 days	0 days	151 days	0%	Mon 1/3/21	Tue 31/8/21	NA	NA	Mon 1/3/21	Tue 30/5/23	0 days				
125	Preparation for Connecting Precast Units and Cast In-situ Bay 15	6 days	0 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		
126	Installation of 14 precast units with feeder pipe installation (2.5 days per unit)	37 days	0 days	37 days	0%	Mon 8/3/21	Thu 22/4/21	NA	NA	Mon 8/3/21	Thu 22/4/21	0 days	2 days	1125,1107SS+75		
1127	Inspection Shaft Construction and Backfilling Upto +2.0mPD + Feeder Pipe Laying + Backfilling upto Final Formation Level	-	-	33 days	0%	Fri 23/4/21	Wed 2/6/21	NA	NA	Fri 23/4/21	Wed 2/6/21	0 days	-	days 1126		
	+ Backfilling upto Final Formation Level															
128	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		
129	Section 4: Part 2E	225 days	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				
130	Abandon Existing DCS - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 15/8/22	Mon 15/8/22	NA	NA	Sat 10/9/22	Sat 10/9/22	26 days	1 day			
131	Abandon Existing DCS - Temp. Works Design and Method Statement Comment & Appraoval	35 days	0 days	35 days	0%	Mon 15/8/22	Sun 18/9/22	NA	NA	Sat 10/9/22	Fri 14/10/22	26 days	1 day	1130		
132	Part 2E - Abandon of existing DCS	185 days	0 days	185 days	0%	Mon 3/10/22	Wed 17/5/23	NA	NA	Sat 15/10/22	Tue 30/5/23	10 days	9 days	20,1131		
133	Planned Completion for Section 4	0 days	0 days	0 days	0%	Wed 17/5/23	Wed 17/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	10 days		1132		
134	Section 8: Part 2A - Diversion & abandon of extg DCS box culvert	194 days	0 days	194 days	0%	Thu 1/4/21	Wed 24/11/21	NA	NA	Fri 9/4/21	Thu 2/12/21	4 days				
135	Diversion & Abandon of Existing DCS Box Culvert - Temp. Works Design and	0 days	0 days	0 days	0%	Thu 1/4/21	Thu 1/4/21	NA	NA	Fri 9/4/21	Fri 9/4/21	8 days	1 day			
136	Method Statement Submission Diversion & Abandon of Existing DCS Box Box Culvert - Temp. Works Design and Method Statement Comment & Appraoval	21 days	0 days	21 days	0%	Thu 1/4/21	Wed 21/4/21	NA	NA	Fri 9/4/21	Thu 29/4/21	8 days	1 day	1135		
137	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		
																$\bot$

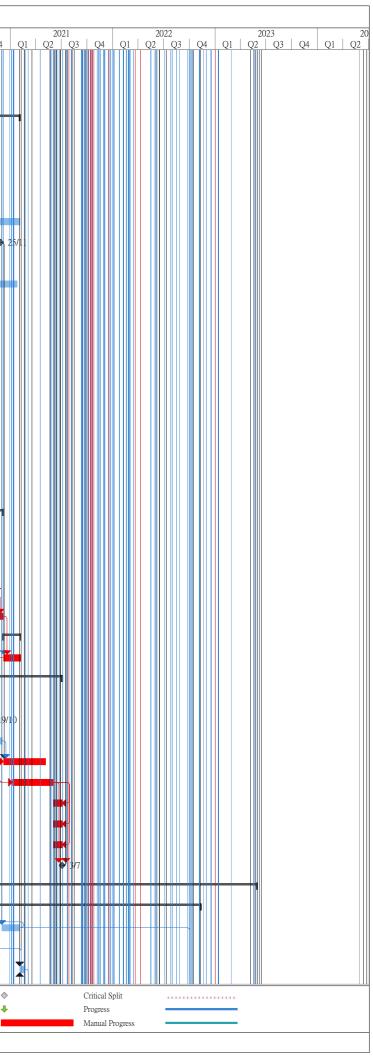
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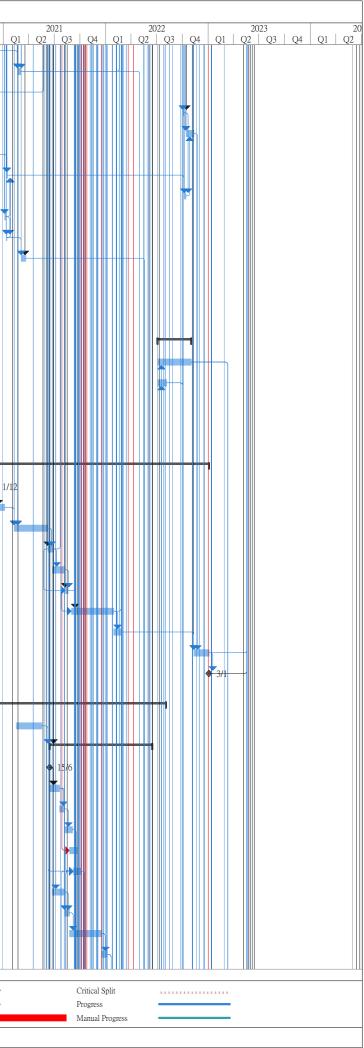
T	aalt Nama	Durn C	A atre-1	Domestic	Dha	Earles Co.	Eorle E. 1	A atre-1 Cr	A at 1 T	h Loto Ct	Lote Elai 1	T-4-1	TDA	Dead	~	020
	ask Name	Duration	Duration	Remaining Duration	Physical % Complete	Early Start		Actual Start			Late Finish	Total Slack	TRA	Predecessors	Q2	020 Q3
138	Sheetpile Installation	25 days	0 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		
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		
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		
143	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		
144	Planned Completion for 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	7 days	0 days	1143	-	
145	Section 3	729 days	0 days	729 days	0%	Thu 16/5/19	Tue 26/10/21	NA	NA	Tue 2/6/20	Tue 2/11/21	6 days			⊣-	_
146	Part 2C - Lift LT3 & LT4	729 days		729 days	0%	Thu 16/5/19	Tue 26/10/21	NA	NA	Tue 2/6/20	Tue 2/11/21	6 days				
147	Access Date - Part 2A.2C	0 days		0 days	0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20		0 days	4FS+369 days		0/6
	,			-										413+509 days		2/0
148	Mobilization of plant and materials	15 days		15 days	0%	Thu 16/5/19	Sat 1/6/19	NA	NA	Sat 4/7/20	Tue 21/7/20	337 days				
149	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	F	h
1150	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				
1151	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		h
1152	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		
1153	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			•
1154	Lift Tower Foundation - Temp. Works Design and Method Statement Comment &	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		1
155	Appraoval Intall Sheetpile, ELS, Excavation and Temp. Works Installation (Shoring, Drainag	e 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	-	
156	& Slope Protection) Foundation Construction (Pad Footing include blinding layer, formwork erection,	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	i	
157	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	-	
158	Lift Tower - Temp. Works Design and Method Statement Submission		0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20		NA	Fri 1/1/21	Fri 1/1/21	60 days			-	
159	Lift Tower - Temp. Works Design and Method Statement Comment & Appraoval	35 days		35 days	0%	Mon 2/11/20		NA	NA	Fri 1/1/21	Thu 4/2/21	60 days		1158	-	
				-							Mon 26/4/21				-	
1160	Lift Shaft Tower: 3 Lifts x 20 day/Lift, Falsework & Formwork Erection, Rebar Fixing & Concreting	63 days		63 days	0%	Fri 29/1/21	Mon 19/4/21		NA	Fri 5/2/21				1156,1159,1157		
1161	Lift installation (LT3 & LT4)	90 days	0 days	90 days	0%	Tue 20/4/21	Fri 6/8/21	NA	NA	Tue 27/4/21	Fri 13/8/21	6 days	5 days	1160,713		
162	E & M installation	30 days	0 days	30 days	0%	Sat 7/8/21	Fri 10/9/21	NA	NA	Sat 14/8/21	Fri 17/9/21	6 days	3 days	1161		
163	Louvers and Glazing Installation	26 days	0 days	26 days	0%	Fri 21/5/21	Mon 21/6/21	NA	NA	Sat 14/8/21	Mon 13/9/21	71 days	2 days	1160FS+25 days	ŝ	
1164	Parapet Installation and Finishing Works	40 days	0 days	40 days	0%	Tue 22/6/21	Sat 7/8/21	NA	NA	Tue 14/9/21	Tue 2/11/21	71 days	4 days	1163		
165	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	s 0.5 day			
1166	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	s 0.5 day	1165		
1167	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	s 0.5 day	1166FS+14 days	ŝ	
1168	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	s 0.5 day	1167FS+15 days	ŝ	
1169	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	-	
1170	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	-	
1171	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		
1172	Planned Completion for Section 3	0 days		0 days	0%	Tue 26/10/21	Tue 26/10/21		NA	Tue 2/11/21	Tue 2/11/21		0 days	1171,1168,1169,	-	
	-			-								-		1171,1100,1109,	-	
1173	Sections 5 and 9: Noise Barrier Installation		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			
1174	1.0 Noise Barrier Shop Drawing Preparation, Offsite Fabrication		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				
1175	CNP and TTA available	0 days	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			• ²⁴
1176	Expose the Extisting Noise Barrier Foundation	70 days	25 days	45 days	36%	Mon 6/4/20	Fri 3/7/20	Mon 6/4/20	NA	Mon 6/4/20	Tue 7/7/20	3 days	1 day			╋
177	Implement TTA	2 days	0 days	2 days	0%	Mon 13/7/20	Tue 14/7/20	NA	NA	Wed 18/11/20	Thu 19/11/20	107 days	s 0.5 day			$\ $
178	Expose the Extisting Noise Barrier Foundation under Existing Footpath	15 days	0 days	15 days	0%	Wed 15/7/20	Fri 31/7/20	NA	NA	Fri 20/11/20	Mon 7/12/20	107 days	s 1 day	1177		
1179	Carry out the Site Survey for Existing Holding Down Bolt at Existing Landscaped Deck	6 days	0 days	6 days	0%	Wed 24/6/20	Thu 2/7/20	NA	NA	Thu 20/8/20	Wed 26/8/20	47 days	1 day	1175		#
1180	Deck Noise Barrier Shop Drawings Preparation	30 days	0 days	30 days	0%	Fri 31/7/20	Thu 3/9/20	NA	NA	Fri 21/8/20	Thu 24/9/20	18 days	0.5 day	1176FF+18 days	\$	
1181	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		
1182	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		♠ 2/	/5
	-															
	7.11 Prog with Progress Task Split	Summary Project Sum	umary		Inactive M			Duration-o Manual Su	nly mmary Rollup		Start-only Finish-only		C ]		ernal Mi idline	lestor
	-May-20	1 roject oull			u macuve 3	······································		. wianaa 30	и у конир		- mon-omy		-	DCdi	unit	



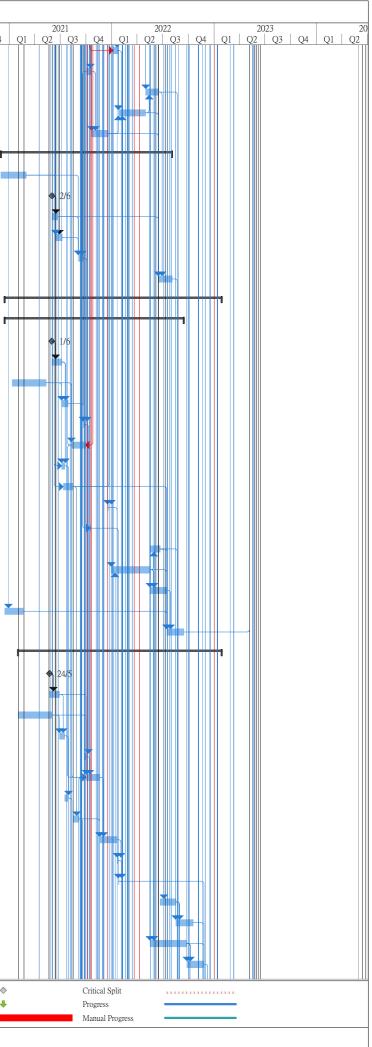
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	Fask Name	Duration Actual Duration	Remaining Duration	Physical % Complete	Early Start			Actual Finish		Late Finish	Total Slack	TRA	Predecessors		20 Q3	(
1183	PMAA Panel Material Comment and Approval by PM	18 days 0 days	18 days	0%	Sat 2/5/20		NA	NA	Sat 6/6/20	Sat 27/6/20	30 days		1182			
1184	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	
1185	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			
1186	Material Testing and Offsite Fabrication	247 days 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					M
1187	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				
1188	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			
1189	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				
1190	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			h
1191	Structural Steel Frame Fabrication and Delivery	120 days 0 days	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			ł
1192	Structural Steel Frame Start Delivery to Stie	0 days 0 days	0 days	0%	Wed 25/11/20	Wed 25/11/20	NA	NA	Tue 8/12/20	Tue 8/12/20	12 days	1 day	1191SS+51 days			╟
1193	Polymethyl Metharylate (PMMA) and Associated Aluminium Sub-frame	121 days 0 days	121 days	0%	Tue 16/6/20	Wed 14/10/20	NA	NA	Sat 11/7/20	Sun 8/11/20	25 days	1 day	1185			ŀ
1194	Procurement Polymethyl Metharylate (PMMA) panel fabrication and delivery	101 days 0 days	101 days	0%	Thu 15/10/20	Sat 23/1/21	NA	NA	Mon 9/11/20	Wed 17/2/21	25 days	30 days	1193,1181			
1195	Temp Works Design for Noise Barrier	106 days 0 days	106 days	0%	Sat 13/6/20	Mon 19/10/20	NA	NA	Fri 19/6/20	Sat 24/10/20	5 days			ŀ		
1196	ELS Design Preparation for Noise Barrier with ICE	18 days 0 days	18 days	0%	Wed 17/6/20	Thu 9/7/20	NA	NA	Tue 23/6/20	Wed 15/7/20		1 day				
1197	ELS Design for Noise Barrier Comment by AECOM	21 days 0 days	21 days	0%	Fri 10/7/20		NA	NA	Thu 16/7/20	Wed 5/8/20		1 day	1196			
1198	Temporary Works Platform Design Preparation	36 days 0 days	36 days	0%	Sat 13/6/20	Mon 27/7/20		NA	Fri 19/6/20	Sat 1/8/20		1 day				
1198	Temporary Working Platform Design Submit for AECOM Comment	19 days 0 days	19 days	0%	Tue 28/7/20	Tue 18/8/20		NA	Mon 3/8/20	Mon 24/8/20		1 day	1198			
1200	Temporary Working Platform Fabrication	51 days 0 days	51 days	0%	Wed 19/8/20	Mon 19/10/20		NA	Tue 25/8/20	Sat 24/10/20		1 day	1198			
1200	2.0 Noise Barrier Footing and Modification Existing Column Stud		181.29 days	0%	Fri 20/3/20			NA	Fri 20/3/20	Wed 23/9/20		1 uay	1179			ſ
		184 days 2.71 days					Fri 20/3/20				4 days					
1202	Take up the Works Area	1 day 1 day	0 days	0%	Fri 20/3/20		Fri 20/3/20	Fri 20/3/20	Fri 20/3/20	Fri 20/3/20	0 days		115(			I
203	Ground Investigation Works	25 days 0 days	25 days	0%	Sat 4/7/20		NA	NA	Wed 8/7/20	Wed 5/8/20		1 day	1176			I
204	Diversion of Existing Utilities and ELS Construction	42 days 0 days	42 days	0%	Mon 3/8/20		NA	NA	Thu 6/8/20	Wed 23/9/20	-	1 day	1197,1203			I
1205	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					ľ
1206	Bay 1 & 3 Fooing with Column Stud and Modification of Existing Column Stud along Bay 1 & 3	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	1188,1204,184F			
1207	Bay 2 & 4 Fooing with Column Stud and Modification of Existing Column along Bay 2&4	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			Ì
1208	Bay 5 & 7 Fooing with Column Stud, Modification of Existing Stud along Bay 56	&7 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			I
1209	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 11/11/20	NA	NA	Mon 2/11/20	Thu 12/11/20	1 day	1 day	1208			ĺ
1210	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			ĺ
211	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				ĺ
1212	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			I
1213	Noise Barrier Installation	258 days 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			r -	h
1214	CNP Application	31 days 0 days	31 days	0%	Wed 19/8/20	Fri 18/9/20	NA	NA	Sat 26/9/20	Mon 26/10/20	38 days	1 day	1199			ŀ
1215	Temporary Platform Delivery to Site	0 days 0 days	0 days	0%	Mon 19/10/20	Mon 19/10/20	NA	NA	Tue 27/10/20	Tue 27/10/20	5 days	0.5 day	1200			4
1216	Temporary Platform On-site Assembly (Night Time)	36 days 0 days	36 days	0%	Tue 20/10/20	Tue 1/12/20	NA	NA	Tue 27/10/20	Mon 7/12/20	5 days	0.5 day	1214,1215			<
1217	Structural Steel Frame Installation	119 days 0 days	119 days	0%	Mon 7/12/20	Wed 5/5/21	NA	NA	Tue 8/12/20	Thu 6/5/21	1 day	1 day	1192,121288,12			
1218	PMMA and Associated Aluminum Sub-frame Installation	117 days 0 days	117 days	0%	Fri 8/1/21		NA	NA	Sat 9/1/21	Thu 3/6/21	1 day	1 day	1194SS+50 days			Ļ
1219	Lighting Installation	25 days 0 days	25 days	0%	Thu 3/6/21		NA	NA	Fri 4/6/21	Mon 5/7/21	1 day	1 day	1218FF+25 days			
1220	Rainwater downpipe	25 days 0 days	25 days	0%	Thu 3/6/21		NA	NA	Fri 4/6/21	Mon 5/7/21	1 day	1 day	1218FF+25 days			
1220	Bus Lay-by	25 days 0 days	25 days	0%	Thu 3/6/21		NA	NA	Fri 4/6/21	Mon 5/7/21	1 day		1218FF+25 days			
1221	Planned Completion for Section 5 & Section 9	0 days 0 days	0 days	0%	Sat 3/7/21		NA	NA	Mon 5/7/21	Mon 5/7/21	1 day	0 days	1218,1219,1220,			
222	-		1192.27 days?		Thu 16/5/19		Thu 16/5/19		Thu 16/5/19	Wed 29/5/24		o uays	1210,1217,1220,			
	Section 6	1201 days 8.73 days									298 da					
1224	Fencing (15m/d) & Hoarding Erection (10m/d)	915 days 185.72 days		0%	Tue 15/10/19	Thu 10/11/22			Tue 15/10/19	Fri 30/12/22	42 days	1.7	101.0			
1225	Hoarding - Part 1 (~57m)	51 days 0 days	51 days	0%	Tue 1/12/20		NA	NA	Wed 21/9/22	Mon 21/11/22			121,8			
1226	Fencing - Part 1 (758m)	6 days 0 days	6 days	0%	Sat 19/9/20		NA	NA	Mon 1/3/21	Sat 6/3/21	130 days		121,8			ļ
227	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			ļ
tle: Re	ev.11 Prog with Progress	Summary		Inactive 1	Vilestone 🔷		Duration-on	ly		Start-only		C	Exte	rnal Mil	estone	2
	2-May-20	Project Summary		Inactive S				nmary Rollup		Finish-only		3		dline		
	Milestone	Inactive Task		Manual T	ask		Manual Sun	nmary		External Tasl	cs		Criti	ical		



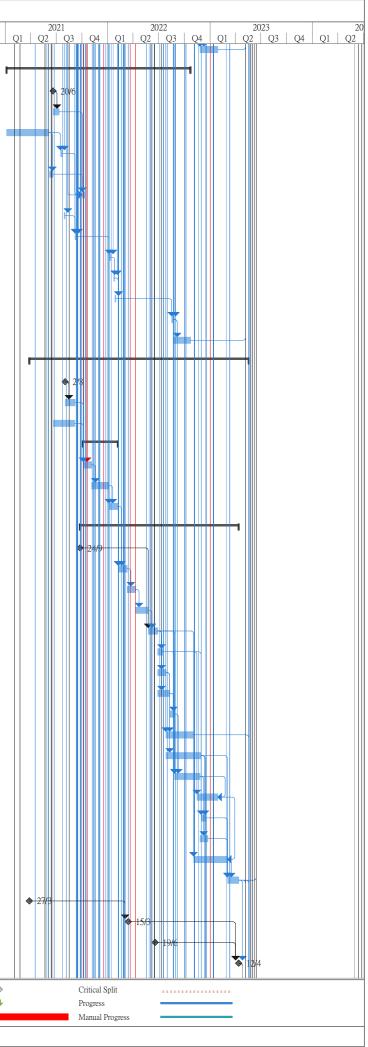
D Ta	ask Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	ГRA	Predecessors	202	20	—
1228	Hoarding - Part 2A (~379m) - 4 team		Duration	Duration 12 days	Complete 0%	Mon 2/11/20	Sat 14/11/20		NA	Sat 5/2/22	Fri 18/2/22	Slack 373 days 1		9,121,1147,1445	Q2	Q3	Q4
1228		12 days	-	-	0%		Tue 2/3/21			Sat 5/2/22 Sat 19/2/22			-				
	Fencing - Part 2B (~132m)		0 days	9 days		Sat 20/2/21		NA	NA		Tue 1/3/22	296 days (	-	10,121,1227,122		↓ ↓	
1230	Hoarding - Part 2C (~106m)		0 days	9 days	0%	Sat 19/9/20	Tue 29/9/20		NA	Fri 2/7/21	Mon 12/7/21	229 days 1	-	9,121,1147,1445			T
1231	Hoarding - Part 2E (~37m)		0 days	4 days	0%	Mon 3/10/22	Fri 7/10/22		NA	Tue 22/11/22	Fri 25/11/22	42 days (	-	11,121,1225			
1232	Fencing - Part 3A (~326m)	24 days	-	24 days	0%	Fri 14/10/22	Thu 10/11/22		NA	Fri 2/12/22	Fri 30/12/22	42 days 2	-	12,121,1235			
1233	Fencing - Part 3D (~29m)	2 days	0 days	2 days	0%	Sat 19/9/20	Mon 21/9/20		NA	Sat 12/6/21	Tue 15/6/21	214 days (		14,121		<b>Ĭ</b> †	Ť
1234	Fencing - Part 3E (~23m)	2 days	0 days	2 days	0%	Wed 13/1/21	Thu 14/1/21	NA	NA	Wed 16/6/21	Thu 17/6/21	123 days (		14,121,1236,123			
1235	Fencing - Part 3F (~62m)	5 days	0 days	5 days	0%	Sat 8/10/22	Thu 13/10/22	NA	NA	Sat 26/11/22	Thu 1/12/22	42 days (	) days	15,121,1231,123			
1236	Fencing - Part 3G (~69m)	5 days	0 days	5 days	0%	Tue 5/1/21	Sat 9/1/21	NA	NA	Mon 7/6/21	Fri 11/6/21	123 days (	) days	14,121			
1237	Fencing - Part 3I (~19m)	2 days	0 days	2 days	0%	Mon 11/1/21	Tue 12/1/21	NA	NA	Sat 12/6/21	Tue 15/6/21	123 days (	) days	14,121,1236			
1238	Fencing - Part 4 (~180m)	14 days	0 days	14 days	0%	Fri 5/3/21	Sat 20/3/21	NA	NA	Tue 24/5/22	Thu 9/6/22	361 days 2	2 days	121,13,1237			
1239	Fencing - Part 6A (~19m)	2 days	0 days	2 days	0%	Sat 19/9/20	Mon 21/9/20	NA	NA	Sat 26/9/20	Mon 28/9/20	6 days (	) days	8,121,1241			
1240	Fencing - Part 6B (~23m)	2 days	0 days	2 days	0%	Tue 22/9/20	Wed 23/9/20	NA	NA	Tue 29/9/20	Wed 30/9/20	6 days (	) days	8,121,1239		*	
1241	Hoarding - WA1 (~300m)	41 days	41 days	0 days	70%	Tue 15/10/19	Sat 30/11/19	Tue 15/10/19	Sat 30/11/19	Tue 15/10/19	Sat 30/11/19	0 days (	0.5 days	18,121		-	
1242	Fencing (15m/d) & Hoarding Erection (10m/d) - Upon Works Completion	100 days	0 days	100 days	0%	Tue 5/7/22	Tue 1/11/22	NA	NA	Fri 5/8/22	Fri 2/12/22	27 days					
1243	Fencing - ~1437m	100 days	0 days	100 days	0%	Tue 5/7/22	Tue 1/11/22	NA	NA	Fri 5/8/22	Fri 2/12/22	27 days	5 days	1527			
1244	Hoarding - ~260m	28 days	0 days	28 days	0%	Tue 5/7/22	Fri 5/8/22	NA	NA	Mon 19/9/22	Sat 22/10/22	64 days 2	2 days	1527			
1245	Demolition Work - Extg Fire Service Station	89 days	89 days	0 days	0%	Fri 16/8/19	Sat 30/11/19	Fri 16/8/19	Sat 30/11/19	Fri 16/8/19	Sat 30/11/19	0 days					
1246	Asbesto Survey (PS Cl. 2.04(9))	8 days	8 days	0 days	100%	Fri 16/8/19	Fri 23/8/19	Fri 16/8/19	Fri 23/8/19	Fri 16/8/19	Fri 23/8/19	0 days (	).5 days	1226			
1247	Demolish of abandoned Fire Service Station	11 days	11 days	0 days	100%	Tue 19/11/19	Sat 30/11/19	Tue 19/11/19	Sat 30/11/19	Tue 19/11/19	Sat 30/11/19	0 days (	).5 days	1246			
1248	Rising Main	623 days	0 days	623 days	0%	Tue 1/12/20	Tue 3/1/23	NA	NA	Mon 1/2/21	Tue 30/5/23	50 days					
1249	Rising Main - Method Statement Submission	0 days	0 days	0 days	0%	Tue 1/12/20	Tue 1/12/20	NA	NA	Mon 1/2/21	Mon 1/2/21	62 days (	).5 days				
1250	Rising Main Method Statement Comment & Appraoval	35 days	-	35 days	0%	Tue 1/12/20	Mon 4/1/21	NA	NA	Mon 1/2/21	Sun 7/3/21	62 days (	-	1249			
1251	Part 1 - CHA660-1097.77 - 2x160mm dia (~438m)	95 days		95 days	0%	Mon 8/2/21	Mon 7/6/21		NA	Mon 8/3/21	Sat 3/7/21	21 days 1	-	8,1226,427,419,1			
1252	Part 9A - CHA32-71 - 2x160mm dia (~39m) (KD5)	15 days		15 days	0%	Tue 8/6/21	Fri 25/6/21	NA	NA	Mon 5/7/21	Wed 21/7/21	21 days	-	8,1251			
1253	Part 9B Rising Main	36 days	-	36 days	0%	Sat 26/6/21	Sat 7/8/21	NA	NA	Thu 22/7/21	Wed 1/9/21	21 days 1		1252			
1255	Part 3B - CHA418-443 - 2x160mm dia (~25m) (KD7)		0 days	10 days	0%		Thu 19/8/21		NA	Thu 2/9/21				13,125288,1253			
1255	Part 9 - CHA0-363 & 71-363 - 2x160mm dia. (~655m) (KD4)	124 days		124 days	0%	Tue 31/8/21	Fri 28/1/22		NA	Thu 2/9/21	Mon 31/1/22	2 days 3	-	16,1254SS			
1255	Part 8 - CHA363-418&443-452 - 2x160mm dia (~64m)	20 days		20 days	0%	Sat 29/1/22	Thu 24/2/22		NA	Thu 9/3/23	Fri 31/3/23	330 days 8		1255			
	Part 3A - CH452-660 - 2x160mm dia (~208m)		-	-		Fri 11/11/22					Tue 30/5/23			12,1232,1256			
1257		45 days	-	45 days	0%		Tue 3/1/23	NA	NA	Sat 1/4/23		117 days 6					
1258	Allow Access for EMSD third District Cooling System Contractor for DCS Pipelin Laying at Parts 3A, 3B, 8, 9 and 9A	e 0 days	0 days	0 days	0%	Tue 3/1/23	Tue 3/1/23	NA	NA	Tue 30/5/23	Tue 30/5/23	147 days		1257			
1259	Underground Drainage (Stormwater & Sewerage Drainage)	496 days	0 days	496 days	0%	Tue 1/12/20	Wed 3/8/22	NA	NA	Wed 31/3/21	Wed 5/10/22	51 days					
1260	Procurement of Stormwater Drainage Pipes	90 days	0 days	90 days	0%	Tue 16/2/21	Sun 16/5/21	NA	NA	Wed 31/3/21	Mon 28/6/21	43 days	l day				
1261	Stormwater Drainage	299 days	0 days	299 days	0%	Tue 15/6/21	Wed 15/6/22	NA	NA	Tue 29/6/21	Wed 21/9/22	12 days		428,465,1260			
1262	Stormwater Drainage - ELS Temp. Works Design and Method Statement	0 days	0 days	0 days	0%	Tue 15/6/21	Tue 15/6/21	NA	NA	Tue 29/6/21	Tue 29/6/21	14 days 1	l day				
1263	Submission Stormwater Drainage - ELS Temp. Works Design and Method Statement	35 days	0 days	35 days	0%	Tue 15/6/21	Mon 19/7/21	NA	NA	Tue 29/6/21	Mon 2/8/21	14 days	l day	1262			
1264	Comment & Appraoval CH1000 - CH1087 (~92.5m, 2 M/H)	16 days	0 days	16 days	0%	Tue 20/7/21	Fri 6/8/21	NA	NA	Tue 3/8/21	Fri 20/8/21	12 days 1	l days	1263			
1265	CH1087 - CH1189.4 (~210m, 9 M/H)	24 days		24 days	0%	Sat 7/8/21	Fri 3/9/21	NA	NA	Sat 21/8/21	Fri 17/9/21	12 days 1		1264			
1266	CH1189.4 - CH1394 (~167m, 3 MH) - Bridge D3	24 days		24 days	0%	Tue 24/8/21	Mon 20/9/21		NA	Tue 9/11/21	Mon 6/12/21	63 days (		944SS			
1267	CH1394 - CH1444.7 (~40m, 3 M/H) - S. Ramp	24 days		21 days	0%	Tue 7/9/21	Sat 2/10/21		NA	Tue 9/11/21	Thu 2/12/21	51 days		1266SS,988SS+:			
	CH1444.7 - CH1560 (~222m, 10 M/H) - S. Kalup			38 days	0%	Wed 23/6/21	Fri 6/8/21	NA		Mon 21/2/22	Wed 6/4/22	198 days 3		987			
1268		38 days	-	-					NA								
1269	CH1560 - CH1720 (~239m, 8 M/H) - N.D. Rd	14 days		14 days	0%	Sat 7/8/21	Mon 23/8/21		NA	Thu 7/4/22	Tue 26/4/22	198 days 1		1263,1268,436			
1270	CH1720 - CH1920 (~450.7m, 13 M/H) Underpass	96 days		96 days	0%	Tue 24/8/21	Thu 16/12/21		NA	Wed 27/4/22	Thu 18/8/22	198 days 6		1269			
1271	CH1920 - CH2000 (~160m, 6 M/H) S.D. Rd	14 days	0 days	14 days	0%	Fri 17/12/21	Wed 5/1/22	NA	NA	Fri 19/8/22	Sat 3/9/22	198 days 1	l days	1270			
	T1.	C			Inactive 1	Vilastar-		Deneri			Start 1				mol M ²¹		_
	/.11 Prog with Progress     Task       Max: 20     Split	Summary Project Sumi	mary		Inactive I Inactive S			Duration-on Manual Sun	ly 🛛 🔤 nmary Rollup 🗧		Start-only Finish-only		]	Exter	mal Miles lline	мопе	
as of 22-	-May-20 Milestone	Inactive Tasl			Manual T	-		Manual Sun			External Tasl	cs.		Critic			



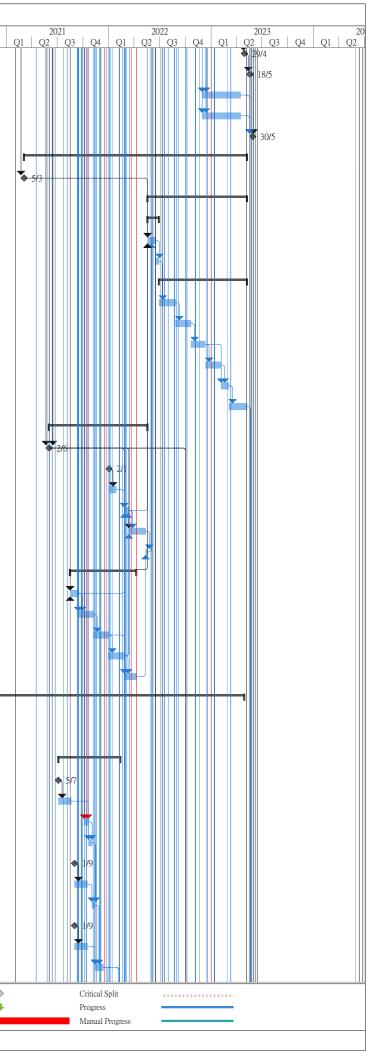
D Tas	sk Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Sta	art Actual Fin	ish Late Start	Late Finish	Total	TRA	Predecessors
			Duration	Duration	Complete							Slack		
1272	CH2000 - CH2060 (~84m, 2 M/H) - S.D. Rd	14 days		14 days	0%	Thu 6/1/22		NA	NA	Mon 5/9/22	Wed 21/9/22	198 days		1085SS+12 days
1273	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	NA	NA	Fri 3/12/21	Sat 18/12/21	51 days	1 days	1267
1274	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
1275	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
1276	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
1277	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		
1278	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	
1279	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	
1280	Sewerage Drainage - Temp. Works Design and Method Statement Comment & Appraoval	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
1281	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
1282	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,
1283	CH100 - CH147 (~156m, 6 M/H) - L12 Road	41 days	0 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,
1284	Underground Watermain	629 days	0 days	629 days	0%	Tue 15/12/20	Fri 27/1/23	NA	NA	Fri 14/5/21	Thu 16/3/23	41 days		
1285	Fresh Watermain	519 days		519 days	0%	Tue 15/12/20	Wed 14/9/22	NA	NA	Fri 14/5/21	Thu 16/3/23	119 days		
1286	Fresh Watermain - Method Statement Submission	0 days		0 days	0%	Tue 1/6/21		NA	NA	Sat 7/8/21	Sat 7/8/21	67 days		
1287	Fresh Watermain Method Statement Comment & Appraoval	35 days		35 days	0%	Tue 1/6/21		NA	NA	Sat 7/8/21	Fri 10/9/21	67 days		1286
1288	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		
1289	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		1288,1287
1289	CH1000 - CH1087 (~19111) Kd D3 CH1087 - CH1189.4 (~212m) - N. Ramp	4 days	· ·	4 days	0%	Tue 21/9/21		NA	NA	Thu 7/10/21	Mon 11/10/21	12 days	-	1288,1287
1290					0%	Tue 10/8/21		NA		Fri 15/10/21				1282,407,1289
	CH1189.4 - CH1394 (~409.2m) - Bridge D3	42 days		42 days					NA		Thu 2/12/21	54 days		,
1292	CH1394 - CH1444.7 (~101.4m) - S. Ramp	10 days		10 days	0%	Tue 6/7/21		NA	NA	Mon 15/8/22	Thu 25/8/22	332 days		988SS+10 days,
1293	CH1444.7 - CH1560 (~165m) - Rd D3	30 days	-	30 days	0%	Mon 12/7/21		NA	NA	Sat 27/11/21	Tue 4/1/22	116 days		988SS+15 days
1294	CH1720 - CH1920 (~25m) - Underpass		0 days	2 days	0%	Fri 17/12/21	Sat 18/12/21		NA	Fri 16/9/22	Sat 17/9/22	221 days		1270,444
1295	CH2060 - CH2118.93 (~47m) - Rd D3	2 days	0 days	2 days	0%	Sat 16/10/21	Mon 18/10/21		NA	Wed 15/12/21	Thu 16/12/21	51 days	0 days	1273SS+10 days
1296	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
1297	Open Space & Promenade (~1,093m)	110 days		110 days	0%		Mon 16/5/22		NA	Wed 12/1/22	Fri 27/5/22	10 days		1497,458,111
1298	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
1299	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
1300	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,
1301	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		
1302	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	
1303	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
1304	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	
1305	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
1306	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
1307	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
1308	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
1309	CH1444.7 - CH1560 (~165m) - Rd D3	18 days	0 days	18 days	0%	Mon 16/8/21	Sat 4/9/21	NA	NA	Wed 29/6/22	Wed 20/7/22	258 days	1 day	1293
1310	CH1560 - CH1720 (~160m) - NDR	50 days		50 days	0%	Fri 19/11/21	Wed 19/1/22	NA	NA	Thu 21/7/22	Sat 17/9/22	197 days		1307,1309,444
1311	CH1720 - CH1920 (~25m) - Underpass	3 days		3 days	0%	Thu 20/1/22		NA	NA	Mon 19/9/22	Wed 21/9/22	197 days		1294,1310
1312	CH2060 - CH2118.93 (~47m) - Rd D3	-	0 days	2 days	0%	Mon 24/1/22	Tue 25/1/22		NA	Thu 22/9/22	Fri 23/9/22	197 days		1294,1310
1312	CH100 - CH147 (~455m) - L12 Road	47 days		2 days 47 days	0%	Wed 22/6/22	Tue 16/8/22		NA	Wed 3/8/22	Tue 27/9/22	35 days		1295,1511
1314	L12d Salt Watermain	50 days	-	50 days	0%	Wed 17/8/22	Mon 17/10/22		NA	Wed 16/11/22	Fri 13/1/23	75 days		1313,498
1315	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		1297,458
1316	Saltwater main across Kai Tak River	51 days	0 days	51 days	0%	Mon 26/9/22	Fri 25/11/22	NA	NA	Tue 15/11/22	Fri 13/1/23	41 days	l day	1315,514
Title: Rev.	I Prog with Progress	Summary			Inactive M			Duratio	-		Start-only		C	Exte
as of 22-	Mav-20	Project Sum Inactive Tas		1	Inactive S Manual T				l Summary Rollup l Summary		Finish-only External Tas	ks	3	Dead
	whiestone	macuve 1as	n.	L	ivianuai 1	ask		- ivianua	a Summary	•	<ul> <li>External Las</li> </ul>	a)		Criti



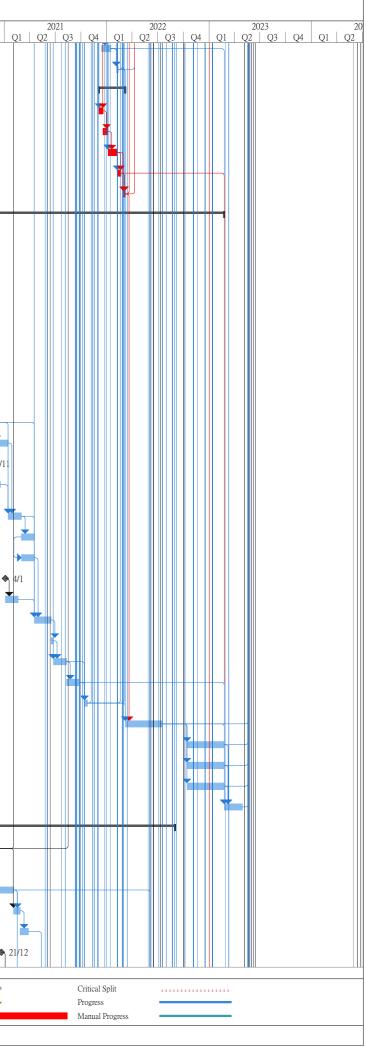
) Ta	isk Name	Duration	Actual	Remaining	Physical 0/-	Early Start	Early Finish	ract No. ED/	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	2020
			Duration	Remaining Duration	Physical % Complete							Slack	TRA	Predecessors	Q2
1317	Salt Watermain T&C	50 days 0	0 days	50 days	0%	Sat 26/11/22		NA	NA	Sat 14/1/23	Thu 16/3/23	41 days	-	1312,1315,1316,	
1318	Irrigation System	535 days (	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			
1319	Irrigation System - Method Statement Submission	0 days 0	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		
1320	Irrigation System Method Statement Comment & Appraoval	21 days 0	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	
1321	Irrigation Pipe and System Procurement	150 days (	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		
1322	CH1000 - CH1087 (~87m) Rd D3	5 days 0	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	
1323	CH1087 - CH1189.4 (~205m) - N. Ramp	10 days 0	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	
1324	CH1189.4 - CH1394 (~409.2m) - Bridge D3	7 days 0	0 days	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	
1325	CH1394 - CH1444.7 (~101.4m) - S. Ramp	3 days 0	0 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	
1326	CH1444.7 - CH1560 (~175m) - Rd D3	4 days 0	0 days	4 days	0%	Mon 6/9/21	Thu 9/9/21	NA	NA	Mon 12/9/22	Thu 15/9/22	302 days	0 days	1309,1322,1325	
1327	CH1920 - CH2000 (~160m) S.D. Rd	5 days 0	0 days	5 days	0%	Thu 6/1/22	Tue 11/1/22	NA	NA	Fri 16/9/22	Wed 21/9/22	207 days	1 day	1271,1326	
1328	CH2000 - CH2060 (~60m) - S.D. Rd	2 days 0	0 days	2 days	0%	Sat 22/1/22	Mon 24/1/22	NA	NA	Thu 22/9/22	Fri 23/9/22	198 days	0 days	1272,1327	
1329	CH2060 - CH2118.93 (~100m) - Rd D3	3 days 0	0 days	3 days	0%	Wed 26/1/22	Fri 28/1/22	NA	NA	Sat 24/9/22	Tue 27/9/22	197 days	0 days	1312,1328	
1330	CH100 - CH147 (~173m) - L12 Road	5 days 0	0 days	5 days	0%	Wed 17/8/22	Mon 22/8/22	NA	NA	Wed 28/9/22	Wed 5/10/22	35 days	1 day	1313,1329	
1331	Irrigation System T&C	50 days 0	0 days	50 days	0%	Tue 23/8/22	Sat 22/10/22	NA	NA	Sat 14/1/23	Thu 16/3/23	120 days	1 day	1330	
1332	Salt Water and Sewage Pumping Station	637 days (		637 days	0%	Sat 27/3/21	Thu 18/5/23		NA	Wed 28/7/21	Tue 30/5/23	8 days	-		
1333	Salt Water Pumping Station - Temp. Works Design and Method Statement			0 days	0%	Mon 2/8/21		NA	NA	Fri 10/9/21	Fri 10/9/21	39 days	1 dav		
1334	Submission Salt Water Pumping Station - Temp. Works Design and Method Statement	-	-	35 days	0%	Mon 2/8/21		NA	NA	Fri 10/9/21	Thu 14/10/21	39 days		1333	
1335	& Appraval Utilities Diversion	65 days	-	65 days	0%	Mon 21/6/21		NA	NA	Wed 28/7/21		31 days		1555	
				-									15 uay		
1336	Substructure	100 days 0		100 days	0%	Tue 5/10/21	Sat 5/2/22	NA	NA	Fri 15/10/21	Tue 15/2/22	8 days	<i>с</i> ,	140 1004 1005 1	
1337	Sheetpile Installation	25 days 0		25 days	0%	Tue 5/10/21	Wed 3/11/21		NA	Fri 15/10/21	Fri 12/11/21		5 days	148,1334,1335,1	
1338	Excavation and Shoring Installation	50 days 0	-	50 days	0%	Thu 4/11/21		NA	NA	Sat 13/11/21	Thu 13/1/22		5 days	1337	
1339	Base Slab Construction include blinding layer	25 days 0	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	
1340	Superstructure	460 days 0	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			
1341	Coordination with CLP to plan for Layout and Details of Transformer F	Room 0 days 0	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			
1342	Scaflold, Falsework and Formwork Erection	28 days 0	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	
1343	Wall Rebar Fixing & Concreting	24 days 0	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	
1344	Top Slab and Beam: Rebar Fixing and Formwork	36 days 0	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	
1345	Formwork & Falsework Removal	28 days 0	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	
1346	Watertightnes Test	15 days 0	0 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	
1347	Backfilling & Sheetpile Removal	24 days 0	0 days	24 days	0%	Tue 28/6/22	Tue 26/7/22	NA	NA	Tue 9/8/22	Mon 5/9/22	35 days	2 days	1345	
1348	Water Chamber Construction	36 days 0	0 days	36 days	0%	Tue 28/6/22	Tue 9/8/22	NA	NA	Fri 8/7/22	Thu 18/8/22	8 days	1 day	1345	
1349	Watertightnes Test for Water Chamber	15 days 0	0 days	15 days	0%	Wed 10/8/22	Fri 26/8/22	NA	NA	Fri 19/8/22	Mon 5/9/22	8 days	1 day	1348	
1350	Drainage and Roadworks	80 days 0	0 days	80 days	0%	Wed 27/7/22	Mon 31/10/22	NA	NA	Sat 18/2/23	Mon 29/5/23	170 days	5 days	1347,383	
1351	Utilities Laying	105 days 0	0 days	105 days	0%	Wed 27/7/22	Tue 29/11/22	NA	NA	Tue 6/9/22	Tue 10/1/23	35 days	5 days	1347	
1352	Finishing work and fitting out	75 days 0	0 days	75 days	0%	Sat 27/8/22	Fri 25/11/22	NA	NA	Tue 6/9/22	Mon 5/12/22	8 days	1 day	714,1345,555,13	
1353	Tx Installation with T&C	60 days 0		60 days	0%	Tue 15/11/22	Fri 27/1/23	NA	NA	Thu 24/11/22	Mon 6/2/23		1 day	1346,1352FF+50	
1354	PCCW Installation	15 days 0	-	15 days	0%		Fri 16/12/22		NA	Fri 24/2/23	Mon 13/3/23	70 days		1351,1346	
1355	Ironmongery work	24 days 0		24 days	0%	Sat 26/11/22	Fri 23/12/22		NA	Tue 14/2/23	Mon 13/3/23	64 days		1352	
1356	E&M installation	100 days 0		100 days	0%	Thu 3/11/22		NA	NA	Sat 12/11/22	Mon 13/3/23	8 days		1345,1353FF+30	
1357	Testing and Commissioning			30 days	0%	Sat 4/3/23	Wed 12/4/23		NA	Tue 14/3/23	Fri 21/4/23		2 days	1345,1355,1351,	
		30 days 0											-	1550,1555,1551,	
1358	WSD Form 46 Part I & II Submission	-	0 days	0 days	0%	Sat 27/3/21		NA	NA	Sat 22/4/23	Sat 22/4/23	615 days		1250	
1359	WSD Form 46 Part 46 Part IV Submission		0 days	0 days	0%	Tue 15/3/22	Tue 15/3/22		NA	Sat 22/4/23	Sat 22/4/23		0.5 days	1358	
1360	CLP Meter Installation		0 days	0 days	0%	Sun 19/6/22	Sun 19/6/22		NA	Sat 22/4/23	Sat 22/4/23	251 days			
1361	FSD Form 501 Submission for FS Inspection	0 days 0	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	
Title [.] Rev	.11 Prog with Progress	Summary			Inactive 1	Vilestone 🔷		Duration-on	ly		Start-only		C	Exter	nal Mile
as of 22-	-Mav-20	-			Inactive S	-			nmary Rollup 💼		Finish-only	ing.	3	Dead	
	Milestone	Inactive Task			Manual T	ask		Manual Sun	1mary		External Task	NS .		Critic	4



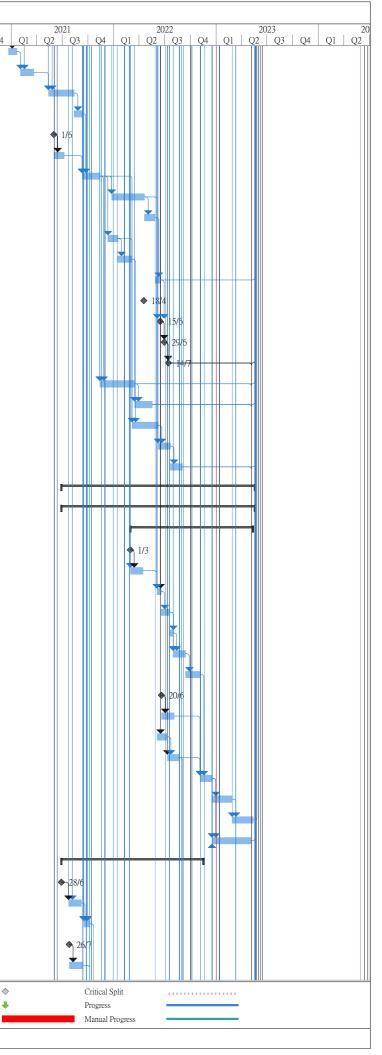
									tract No. ED/		· · · · · · · · · · · · · · · · · · ·						
) Ta	ask Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	1 Late Start	Late Finish	Total Slack	TRA	Predecessors	20 Q2	)20   Q3
362	FSD Inspection		0 days	0 days	0 days	0%	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		
363	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		
364	Salt Water and Sewage Pumpir	g Station: Landscaping hardworks and softworks	110 days	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		
365	Salt Water and Sewage Pumpir	g Station: Planting Works	110 days	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		
366	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,		
367	Seawater Intake Box Culvert (~16	9m)	647 days	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				
368	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		
369	Part 4 - CHA.0-79 (79m)		290 days	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				
370	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				
371	Temporary ELS & Exca	vation 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,		
372	Install 3 nos. 8 m long p	recast 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		
373	CHA 24-79 (75m) (5 units)		256 days	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				
374	Temporary ELS & Exca	vation	50 days	0 days	50 days	0%	Wed 29/6/22	Fri 26/8/22	NA	NA	Thu 21/7/22	Sat 17/9/22	18 days	1 day	1372		
375	Unit 1 & 3 (41 days per	unit)	44 days	0 days	44 days	0%	Sat 27/8/22	Thu 20/10/22	NA	NA	Mon 19/9/22	Thu 10/11/22	18 days	3 days	1374		
376	Unit 2 & 4 (41 days per	unit)	44 days	0 days	44 days	0%	Fri 21/10/22	Sat 10/12/22	NA	NA	Fri 11/11/22	Mon 2/1/23	18 days	3 days	1375		
377	Unit 5 & 6 (41 days per	unit)	44 days	0 days	44 days	0%	Mon 12/12/22	Sat 4/2/23	NA	NA	Tue 3/1/23	Sat 25/2/23	18 days	3 days	1376		
378	Remove struts and back	illing	24 days	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	1 days	1376,1377		
379	Reinstate seawall		50 days	0 days	50 days	0%	Mon 6/3/23	Mon 8/5/23	NA	NA	Mon 27/3/23	Tue 30/5/23	18 days	1 days	1378		
380	Part 10 - CHA79-89 (10m)		286 days	0 days	286 days	0%	Wed 2/6/21	Wed 18/5/22	NA	NA	Wed 2/6/21	Thu 9/6/22	0 days	-			
381	Access Date - Part 10		0 days		0 days	0%	Wed 2/6/21		NA	NA	Wed 2/6/21	Wed 2/6/21	0 days	0 days	4FS+734 days,17		
382		d Method Statement Submission	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				
383		d Method Statement Comment by PM	21 days		21 days	0%	Mon 3/1/22	Wed 26/1/22		NA	Tue 22/2/22	Thu 17/3/22	40 days		1382		
1384	Temporary ELS & Excavati	-	14 days	-	14 days	0%	Fri 25/2/22		NA	NA	Fri 18/3/22	Sat 2/4/22	18 days	0 days	1388,1381,1391,		
1385	Box Culvert with Feeder In		47 days		47 days	0%	Mon 14/3/22	Wed 11/5/22		NA	Mon 4/4/22	Wed 1/6/22	18 days		1384,1381,1391		
1386	Remove struts and backfilli		6 days		6 days	0%	Thu 12/5/22	Wed 18/5/22		NA	Thu 2/6/22	Thu 9/6/22	18 days		1392,1385		
1387	Part 1 - CH89-165 (76m) 6 Un	-	193 days		193 days	0%	Mon 16/8/21		NA	NA	Mon 6/9/21	Wed 1/6/22	18 days	1 days	1592,1505		
1388	Temporary ELS & Excavati		25 days	-	25 days	0%		Mon 13/9/21		NA	Mon 6/9/21	Wed 6/10/21	-	0.5 dave	0 11/7 1//5		
1389	Unit 1 & 3 (41 days per uni		44 days		44 days	0%	Tue 14/9/21		NA	NA	Thu 7/10/21	Sat 27/11/21	18 days		1388,418,570		
1390		·			-	0%	Mon 8/11/21	Thu 30/12/21		NA	Mon 29/11/21	Fri 21/1/22			1389		
1390	Unit 2 & 4 (41 days per uni Unit 5 & 6 (41 days per uni		44 days 44 days	-	44 days 44 days	0%	Fri 31/12/21		NA	NA	Sat 22/1/22	Thu 17/3/22	18 days		1390		
					-								-				
1392	Remove struts and backfilli		36 days		36 days	0%	Fri 25/2/22	Fri 8/4/22	NA	NA	Thu 21/4/22	Wed 1/6/22	43 days		1390,1391		
1393	Elevated Landscape Deck CH1920		-	s 11.27 days	-	0%	Thu 16/5/19	Sat 29/4/23		NA	Thu 16/5/19	Wed 29/5/24	321 da				
1394	-	lan with KL/2014/01 Contractor	14 days		0 days	100%	Thu 16/5/19	Fri 31/5/19	Thu 16/5/19	Fri 31/5/19	Thu 16/5/19	Fri 31/5/19	0 days	-			
1395	Ch1920-CH2060		1 day?		1 day?	0%	Sat 23/5/20	Sat 23/5/20	NA	NA	Wed 29/5/24	Wed 29/5/24	1467 d				
1396	Part 1 - CH1919-2020 (70m) 4	-	181 days		181 days	0%	Mon 5/7/21		NA	NA	Wed 8/9/21	Mon 14/2/22	3 days				
1397		ign and Method Statement Submission	0 days		0 days	0%	Mon 5/7/21		NA	NA	Wed 8/9/21	Wed 8/9/21	65 days	-			
1398		ign 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	1 day	1397		
1399	CH1930 Pier (1set x 3nos.):		12 days	0 days	12 days	0%	Tue 5/10/21	Tue 19/10/21	NA	NA	Fri 8/10/21	Fri 22/10/21	3 days		1075,1076,1066		
1400	CH1950-CH2020: Pier (3se	ts x 3nos) - 1 day/no 1 team	11 days	0 days	11 days	0%	Wed 20/10/21	Mon 1/11/21	NA	NA	Sat 23/10/21	Thu 4/11/21	3 days	2 day	579,1398,1399		
1401	Falsework Temporary Work	s Design and Method Statement Submission	0 days	0 days	0 days	0%	Wed 1/9/21	Wed 1/9/21	NA	NA	Tue 21/9/21	Tue 21/9/21	20 days	1 day			
1402	Falsework Temporary Work Approval	ss Design and Method Statement Comment &	45 days	0 days	45 days	0%	Wed 1/9/21	Fri 15/10/21	NA	NA	Tue 21/9/21	Thu 4/11/21	20 days	1 day	1401		
1403	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		
1404	Deck & Secondary Upstand Statement Submission	Beam Temporary Works Design and Method	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			
1405		Beam Temporary Works Design and Method	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		
1406	Deck (4 bays) 12d/bay & lin		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		
	11 Drog with Drog with	Task	Summary		l I	Inactive N	Vilestone 🔷		Duration-on	ly		Start-only		C	Exte	nal Mil	lestor
	v.11 Prog with Progress -May-20	Split	Project Sun		0	Inactive S	Summary 📗		Manual Sun	nmary Rollup 🗧		Finish-only		3	Dead	line	
		Milestone 🔶	Inactive Ta	sk		Manual T	'ask		Manual Sun	nmary		External Task	s		Criti	al	



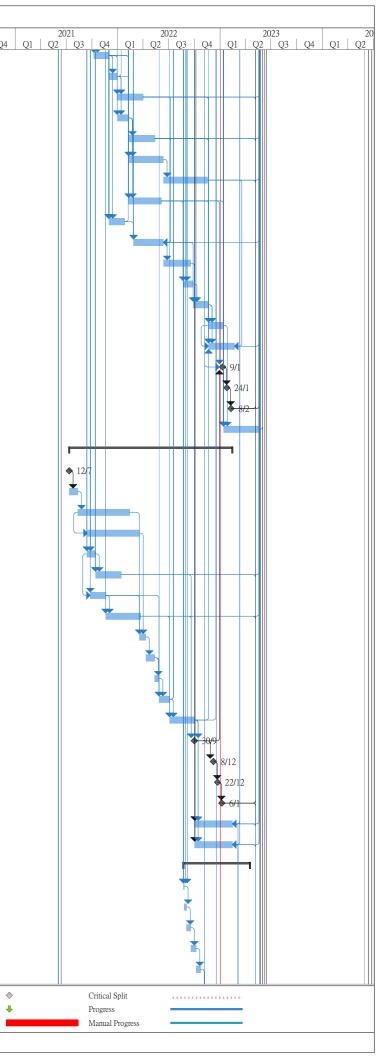
D ]	Fask Name	Duration Actu	al Remaining	Physical %	Early Start	Early Finish			KTD Project	Late Finish	Total	TRA	Predecessors	2020	
		Dura	tion Duration	Complete 0%			NA	NA	Thu 16/12/21		Slack	1.5 day	1406	Q2 (	
1407	Secondary Upstand Beam	26 days 0 da			Mon 13/12/21	Fri 14/1/22 Thu 10/2/22				Tue 18/1/22	3 days				
1408	Dismantle falsework	6 days 0 da		0%	Fri 4/2/22		NA	NA	Tue 8/2/22	Mon 14/2/22	3 days	0.5 day	1406FS+14 days		
1409	Part 2A - CH2020-2050 (30m) 3 bays	74 days 0 da			Sat 4/12/21	Mon 7/3/22	NA	NA	Mon 22/11/21	Tue 22/2/22	-11 days		570.1007		
1410	Pier (3sets x 3nos) within CH2007-2090. 1 team	12 days 0 da		0%	Sat 4/12/21	Fri 17/12/21		NA	Mon 22/11/21	Sat 4/12/21	-11 days		579,1087		
1411	Falsework erection	12 days 0 da		0%	Sat 18/12/21	Tue 4/1/22	NA	NA	Mon 6/12/21	Sat 18/12/21	-11 days		1410		
1412	Deck (3 bays) 12d/bay	25 days 0 da		0%	Wed 5/1/22	Sat 5/2/22	NA	NA	Mon 20/12/21	Thu 20/1/22	-11 days		1411,1406,625,6		
1413	Secondary Upstand Beam	12 days 0 da		0%	Mon 7/2/22	Sat 19/2/22	NA	NA	Fri 21/1/22	Mon 7/2/22	-11 days		1412,1406,1407		
1414	Dismantle falsework	6 days 0 da		0%	Tue 1/3/22	Mon 7/3/22	NA	NA	Wed 16/2/22	Tue 22/2/22	-11 days	0.5 day	1412,1413FS+7		
1415	Elevated Landscaped Deck CH2090 - Ch2109	989 days 0 da	ys 989 days	0%	Wed 10/6/20	Thu 23/2/23	NA	NA	Wed 10/6/20	Thu 23/3/23	0 days				
1416	G.I. Works/Predrilling Works for Bored Pile No. LD-BP03	12 days 0 da	ys 12 days	0%	Wed 10/6/20	Tue 23/6/20	NA	NA	Wed 10/6/20	Tue 23/6/20	0 days	1 day			
1417	Design Vertification for Bored Pile No. LD-BP02	30 days 0 da	ys 30 days	0%	Wed 24/6/20	Thu 30/7/20	NA	NA	Wed 24/6/20	Thu 30/7/20	0 days	1 day	1416		ווו
1418	CH2090: Bored Pile No. LD-BP02	34 days 0 da	ys 34 days	0%	Fri 31/7/20	Tue 8/9/20	NA	NA	Fri 31/7/20	Tue 8/9/20	0 days	1 day	1416,1417		
1419	Tripit	12 days 0 da	ys 12 days	0%	Wed 24/6/20	Thu 9/7/20	NA	NA	Wed 24/6/20	Thu 9/7/20	0 days	1 day		<b>I</b>	
1420	Diversion of existing watermain and CLP cable (Tentative)	52 days 0 da	ys 52 days	0%	Fri 10/7/20	Tue 8/9/20	NA	NA	Fri 10/7/20	Tue 8/9/20	0 days	15 day	1419		■┤╢
1421	G.I. Works/Predrilling Works for Bored Pile No. LD-BP03	12 days 0 da	ys 12 days	0%	Thu 2/7/20	Wed 15/7/20	NA	NA	Wed 15/7/20	Tue 28/7/20	11 days	1 day		h	
1422	Design Vertification for Bored Pile No. LD-BP03	36 days 0 da	ys 36 days	0%	Thu 16/7/20	Wed 26/8/20	NA	NA	Wed 29/7/20	Tue 8/9/20	11 days	1 day	1421		
1423	CH2069: Bored Pile No. LD-BP03	30 days 0 da	ys 30 days	0%	Wed 9/9/20	Thu 15/10/20	NA	NA	Wed 9/9/20	Thu 15/10/20	0 days	1 day	1418,314FF,142		
1424	Design Vertification for Bored Pile No. LD-BP01	36 days 0 da	ys 36 days	0%	Mon 24/8/20	Tue 6/10/20	NA	NA	Sat 12/9/20	Tue 27/10/20	17 days	1 day			
1425	CH2109: Bored Pile No. LD-BP01	30 days 0 da	ys 30 days	0%	Fri 16/10/20	Fri 20/11/20	NA	NA	Wed 28/10/20	Tue 1/12/20	9 days	1 day	1423,314,1420,1		
1426	Pile testing	43 days 0 da	ys 43 days	0%	Sat 21/11/20	Wed 13/1/21	NA	NA	Wed 2/12/20	Sat 23/1/21	9 days	1 day	1423,1425		
1427	Elevated Landscape Deck - Pilecap with ELS Temp. Works Design and Meth	od 0 days 0 da	ys 0 days	0%	Mon 2/11/20	Mon 2/11/20	NA	NA	Fri 11/12/20	Fri 11/12/20	39 days	1.5 day			
1428	Statement Submission Elevated Landscape Deck - Pilecap with ELS Temp. Works Design and Meth Statement Comment & Appraoval	od 45 days 0 da	ys 45 days	0%	Mon 2/11/20	Wed 16/12/20	) NA	NA	Fri 11/12/20	Sun 24/1/21	39 days	1.5 day	1427		
1429	CH2090: Pilecap with ELS	37 days 0 da	ys 37 days	0%	Thu 14/1/21	Mon 1/3/21	NA	NA	Mon 25/1/21	Thu 11/3/21	9 days	1 day	1425,1426,1428		
1430	CH2069: Pilecap with ELS	37 days 0 da	ys 37 days	0%	Tue 2/3/21	Fri 16/4/21	NA	NA	Fri 12/3/21	Tue 27/4/21	9 days	1 day	1429		
1431	CH2109: Pilecap with ELS	37 days 0 da	ys 37 days	0%	Tue 2/3/21	Fri 16/4/21	NA	NA	Fri 12/3/21	Tue 27/4/21	9 days	1 day	1430SS		
1432	Elevated Landscape Deck - Temp. Works Design and Method Statement	0 days 0 da	ys 0 days	0%	Mon 4/1/21	Mon 4/1/21	NA	NA	Sun 14/3/21	Sun 14/3/21	69 days	0.5 day			
1433	Submission Elevated Landscape Deck - Temp. Works Design and Method Statement	45 days 0 da	ys 45 days	0%	Mon 4/1/21	Wed 17/2/21	NA	NA	Sun 14/3/21	Tue 27/4/21	69 days	0.5 day	1432		
1434	Comment & Appraoval Pier (3sets x 3nos) within CH2060-2119. 1 team, 1 no./day	48 days 0 da	ys 48 days	0%	Sat 17/4/21	Tue 15/6/21	NA	NA	Wed 28/4/21	Fri 25/6/21	9 days	3 day	1433,579,1425,1		
1435	Falsework erection	7 days 0 da	ys 7 days	0%	Wed 16/6/21	Wed 23/6/21	NA	NA	Sat 26/6/21	Mon 5/7/21	9 days	0 days	1434		
1436	Deck (3 bays) 12d/bay	39 days 0 da		0%	Thu 24/6/21	Mon 9/8/21	NA	NA	Tue 6/7/21	Thu 19/8/21	9 days	3 day	1435,715,625,62		
1437	Secondary Upstand Beam	39 days 0 da		0%	Tue 10/8/21	Fri 24/9/21	NA	NA	Fri 20/8/21	Wed 6/10/21	-	1.5 day	1436		
1438	Dismantle falsework	9 days 0 da		0%	Wed 13/10/21		NA	NA	Mon 25/10/21	Wed 3/11/21	9 days	1 day	1436FS+14 days		
1439	Install External Cladding	105 days 0 da		0%	Tue 8/3/22	Thu 14/7/22		NA	Wed 6/4/22	Thu 11/8/22	24 days		1438,1408,1414		
1440	Elevated Landscaped Deck: Hard Landscaping Works	110 days 0 da		0%	Fri 14/10/22	Thu 23/2/23		NA	Fri 11/11/22	Thu 23/3/23	24 days		1439FS+75 days		
1441	Elevated Landscaped Deck: Nature Landscaping Works	110 days 0 da		0%	Fri 14/10/22	Thu 23/2/23		NA	Fri 11/11/22	Thu 23/3/23	24 days		1439FS+75 days		
1442				0%	Fri 14/10/22	Thu 23/2/23		NA	Fri 11/11/22	Thu 23/3/23	24 days		1439FS+75 days		
	Elevated Landscaped Deck: Planting Works	110 days 0 da											-		
1443	Installation of Glass Balustrade	52 days 0 da		0%	Fri 24/2/23	Sat 29/4/23		NA	Fri 24/3/23	Tue 30/5/23	24 days	6 days	1437,1407,1413,		
1444	Part 2A - Lift LT1 & LT2 (Landscaped Deck)	671 days 0 da		0%	Tue 2/6/20	Wed 31/8/22		NA	Tue 2/6/20	Tue 30/5/23	0 days	0.1	(E0.060.)		
1445	Access Date - Part 2A,2C	0 days 0 da		0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20		0 days	4FS+369 days	<b>♦</b> <u>2/6</u>	
1446	TTA Implementation	3 days 0 da		0%	Fri 31/7/20	Mon 3/8/20	NA	NA	Wed 9/6/21	Fri 11/6/21	254 days				]
1447	Utilities Diversion (Towngas and Telecom Cable) (tentative)	150 days 0 da		0%	Tue 4/8/20	Mon 1/2/21	NA	NA	Sat 12/6/21	Thu 9/12/21	254 days		1445,1446		ř
1448	G.I. works	18 days 0 da	ys 18 days	0%	Tue 2/2/21	Thu 25/2/21	NA	NA	Fri 10/12/21	Mon 3/1/22	254 days	1 day	1445,1447		
1449	Design Vertification	25 days 0 da	ys 25 days	0%	Fri 26/2/21	Fri 26/3/21	NA	NA	Tue 4/1/22	Fri 4/2/22	254 days	2 days	1448		
1450	Lift Pilecap & ELS- Temp. Works Design and Method Statement Submission	0 days 0 da	ys 0 days	0%	Mon 21/12/20	Mon 21/12/20	) NA	NA	Tue 16/11/21	Tue 16/11/21	330 days	0.5 day			
Title· Re	ev.11 Prog with Progress	Summary		Inactive	Milestone 🔷		Duration-	only		Start-only		C	Exten	al Milesto	me
	2-May-20				Summary			ummary Rollup		Finish-only	L	3	Deadl		
	Milestone	Inactive Task		Manual	1 dSK		Manual S	ummary		External Tasl	K.S		Critic	11	



as UI 22-1	Milestone	Inactive Task			Man	ual Task		Manual Su	immary		External Task	IS .		Critic	al
tle: Rev. s of 22-I	I I Prog with Progress	Summary Project Sumr	nary			ive Milestone 🔶 ive Summary 📔		Duration-o	only ummary Rollup		Start-only Finish-only		C ]	Exter	nal Milest line
-	Appraoval														
194	Structure - Temp. Works Design and Method Statement Submission Structure - Temp. Works Design and Method Statement Comment &	0 days 47 days		0 days 47 days	0%	Mon 26/7/21 Mon 26/7/21	Mon 26/7/21 Fri 10/9/21	NA	NA	Fri 3/9/21 Fri 3/9/21	Fri 3/9/21 Tue 19/10/21	39 days 39 days	-	1494	
93	Footing Structure Terms Works Design and Mathed Statement Submission	16 days		16 days	0%	Thu 16/9/21	Wed 6/10/21		NA	Wed 29/9/21	Tue 19/10/21		-	987,611,604,618	
02	Foundation - Temp. Works Design and Method Statement Comment & Appraval	45 days		45 days	0%	Sat 24/7/21		NA	NA	Sun 15/8/21	Tue 28/9/21	22 days	-	1491,639,646	
1	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		
00	Toilet	416 days	0 days	416 days	0%	Mon 28/6/21	Wed 16/11/22	NA	NA	Sun 15/8/21	Fri 24/2/23	41 days			
39	E&M and ABWF works, Landscaping and paving works	110 days	0 days	110 days	0%	Sat 17/12/22	Thu 4/5/23	NA	NA	Thu 12/1/23	Tue 30/5/23	21 days	3 days	1528,717,1486	
88	LT5: Lift installation with T&C and Statutory Inspection	60 days	0 days	60 days	0%	Mon 27/2/23	Fri 12/5/23	NA	NA	Wed 15/3/23	Tue 30/5/23	14 days	1 day	713,1487	
487	Observation Deck: Superstructure with Lift Core and Staircase work	72 days	0 days	72 days	0%	Sat 17/12/22	Sun 26/2/23	NA	NA	Mon 2/1/23	Tue 14/3/23	16 days	1 day	1486	
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	
85	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	
84	Comment & Appraoval 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	
183	Submission Structure & Lift Core - Temp. Works Design and Method Statement	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	
482	Structure & Lift Core - Temp. Works Design and Method Statement	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		
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	
480	Socket H-pile Installation	37 days		37 days	0%	Mon 1/8/22	Tue 13/9/22	NA	NA	Mon 15/8/22	Tue 27/9/22	12 days	2 days	367,1155,726,14	
479	Predrilling works for Socket H- pile	12 days		12 days	0%	Tue 19/7/22	Sat 30/7/22	NA	NA	Wed 3/8/22	Sun 14/8/22	15 days		1478	
478	Design Vertification	25 days		25 days	0%	Sat 18/6/22	Mon 18/7/22		NA	Tue 5/7/22	Tue 2/8/22	13 days		1477	
477	Appraval G.I. works for LT5	12 days	-	12 days	0%		Fri 17/6/22		NA				-	1447,611,604,15	
176	Foundation - Temp. Works Design and Method Statement Submission	45 days		45 days	0%	Tue 1/3/22	Thu 14/4/22		NA	Fri 6/5/22	Sun 19/6/22	66 days		1475,639,646	
175	Foundation - Temp, Works Design and Method Statement Submission	358 days 0 days	-	358 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		
74	Open Space & Promenade (From Northern End - CH1720) Observation Deck	564 days		564 days	0%	Mon 28/6/21 Tue 1/3/22	Thu 18/5/23 Fri 12/5/23	NA	NA	Sun 15/8/21 Fri 6/5/22	Tue 30/5/23	9 days 14 days			
72	Open Space & Promenade Open Space & Promenade (From Northern End. CI11720)	564 days	-	564 days	0%	Mon 28/6/21	Thu 18/5/23		NA	Sun 1/8/21	Tue 30/5/23 Tue 30/5/23	9 days			
71	L12d Roadworks and Pedestrian	36 days		36 days	0%	Thu 21/7/22	Wed 31/8/22		NA	Mon 17/4/23	Tue 30/5/23	220 days	I day	1470	
170	L12d Roadworks and Pedestrian, with Light Pole	36 days	-	36 days	0%	Wed 8/6/22	Wed 20/7/22		NA	Wed 1/3/23	Sat 15/4/23	220 days	-	1469,349	
69	L12d Underground Drainage and Utilities Laying	75 days		75 days	0%	Mon 7/3/22		NA	NA	Tue 29/11/22	Tue 28/2/23	220 days		1457,1460,1461	
168	Finishing and E&M Works	50 days		50 days	0%	Wed 16/3/22	Tue 17/5/22		NA	Mon 27/3/23	Tue 30/5/23	309 days	-	1467,367	
467	Staircase ST1	100 days		100 days	0%	Fri 12/11/21	Tue 15/3/22		NA	Fri 25/11/22	Sat 25/3/23	309 days		587,367,1457	
466	Issuance of Lift Use Permit	-	0 days	0 days	0%	Thu 14/7/22	Thu 14/7/22		NA	Tue 30/5/23	Tue 30/5/23	320 days	-	1465FS+15 days	
465	EMSD Lift Inspection		0 days	0 days	0%	Wed 29/6/22	Wed 29/6/22		NA	Tue 16/5/23	Tue 16/5/23	320 days	-	1464FS+14 days	
1464	EMSD Submission Form 5 for Lift Inspection		0 days	0 days	0%	Wed 15/6/22	Wed 15/6/22		NA	Tue 2/5/23	Tue 2/5/23	320 days	-	1458,1462	
1463	CLP Meter Installation		0 days	0 days	0%	Mon 18/4/22	Mon 18/4/22		NA	Mon 18/4/22	Mon 18/4/22	0 days		1450 1460	
.462	Testing & commissioning	15 days		15 days	0%	Sat 28/5/22	Wed 15/6/22		NA	Thu 13/4/23	Sat 29/4/23	261 days	-	1459	
1461	Parapet Installation and Finishing Works	40 days		40 days	0%	Sat 15/1/22	Sat 5/3/22	NA	NA	Thu 13/10/22			-	1460	
1460	Louvers and Glazing Installation	27 days	-	27 days	0%	Sat 11/12/21		NA	NA	Thu 8/9/22		220 days		1457FS+25 days	
1459	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		1458	
1458	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	
1457	Lift Tower: Falsework & Formwork Erection, Rebar Fixing & Concreting	63 days	0 days	63 days	0%	Fri 10/9/21	Thu 11/11/21	NA	NA	Wed 8/6/22	Tue 9/8/22	271 days	3 days	1454,1157,1456	
1456	Lift Structure - Temp. Works Design and Method Statement Comment & Appraoval	l 36 days	0 days	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	
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		
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	
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	
452	**	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	
451	Lift Pilecap and ELS - Temp. Works Foundation Design and Method Statement Comment & Appraoval	30 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	Q2
			Duration	Duration	Complete							Slack			

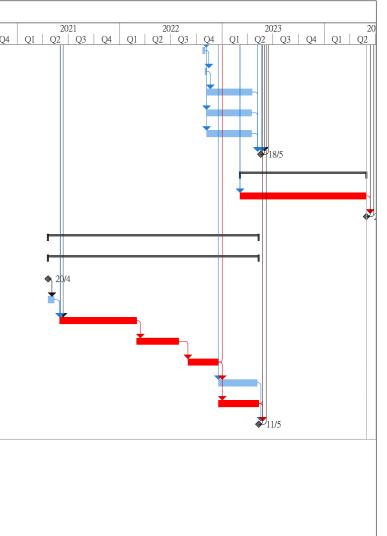


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) T	ask Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish			sh Late Start	Late Finish	Total TRA Slack	Predecessors	Q2
1496	Structure work	45 days	0 days	45 days	0%	Thu 7/10/21	Mon 29/11/21	NA	NA	Wed 20/10/21	Fri 10/12/21	10 days 0.5 day	s 1493,506,1495	
1497	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 day	s 1496	
1498	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	
1499	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	
1500	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	-
1501	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	Í.
1502	Refuse Collection Block and Back of House: Building Works and E&M Works	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	-
1503	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	1496,639,646,1	4
1504	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 day	s 611,1496,604,6	ī
1505	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	1504,639,646,1	
1506	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+2 1505	2
1507	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	NA	Thu 1/9/22	Sat 8/10/22	9 days 0.5 day	s 1503,1485	-
1508	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	NA	Mon 10/10/22	Wed 30/11/22	9 days 0.5 day	s 1507,1505,1506	, ,
1509	Paving work & Hard Landscaping Works	45 days	0 days	45 days	0%	Mon 21/11/22	Thu 12/1/23	NA	NA	Thu 1/12/22	Thu 26/1/23	9 days 2 days	1508,1500,1498	,
1510	ABWF, E&M work and street furniture	75 days		75 days	0%	Mon 21/11/22			NA	Sat 25/2/23	Tue 30/5/23	79 days 2 days	1508,1509SS,15	
1511	FSD Form 501 Submission for FS Inspection	0 days		0 days	0%	Mon 9/1/23	Mon 9/1/23		NA	Mon 1/5/23	Mon 1/5/23	111 days 0.5 day		
1512	FSD Inspection	0 days		0 days	0%	Tue 24/1/23	Tue 24/1/23		NA	Tue 16/5/23	Tue 16/5/23	111 days 0.5 day		
1512	Issuance of FS Certificate	0 days		0 days	0%	Wed 8/2/23		NA	NA	Tue 30/5/23	Tue 30/5/23	111 days 0.5 day		
1515	Landscaping works and Planting works	100 days		100 days	0%	Fri 13/1/23	Thu 18/5/23		NA	Fri 27/1/23	Tue 30/5/23	9 days 4 days	1509,668,1503,	
													1509,000,1505,	_
1515	Open Space & Promenade (From CH1720 - South End)	477 days		477 days	0%	Mon 12/7/21	Mon 13/2/23		NA	Sun 1/8/21	Tue 30/5/23	18 days		_
1516	Modification Seawall - Temp. Works Design and Method Statement Submissi			0 days	0%	Mon 12/7/21	Mon 12/7/21		NA	Sun 1/8/21	Sun 1/8/21	20 days 1 day	1514	_
1517	Modification Seawall - Temp. Works Design and Method Statement Commen Appraoval			30 days	0%	Mon 12/7/21		NA	NA	Sun 1/8/21	Mon 30/8/21	20 days 2 days	1516	
1518	Modification (Seawall) CH1720-1820	150 days		150 days	0%	Wed 11/8/21		NA	NA	Tue 31/8/21	Thu 3/3/22	17 days 1 day	1517	
1519	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 day	3
1520	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 day	s 506,655,660	
1521	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	
1522	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 day	s 1520SS+10 day	3
1523	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	
1524	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	ī.
1525	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 day	s 1524	-
1526	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	-
1527	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 day	s 1526,1522,1525	,
1528	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	-
1529	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	Ē
1530	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	-
1531	FSD Inspection	0 days	0 days	0 days	0%	Thu 22/12/22	Thu 22/12/22		NA	Tue 16/5/23	Tue 16/5/23	144 days 0.5 day	1530FS+15 day	s
1532	Issuance of FS Certificate	0 days		0 days	0%	Fri 6/1/23	Fri 6/1/23	NA	NA	Tue 30/5/23	Tue 30/5/23	144 days 0.5 day		
1533	Open Space & Promenade: Landscaping works	110 days		110 days	0%	Mon 3/10/22	Mon 13/2/23		NA	Mon 24/10/22	Sat 4/3/23	17 days 5 days	1528,668,1243	
1534	Open Space & Promenade: Planting works	110 days		110 days	0%	Mon 3/10/22	Mon 13/2/23		NA	Mon 24/10/22	Sat 4/3/23	17 days 5 days	1528,668,1243	
1535	Part 1, 2A, 2B - Road L12	193 days		193 days	0%	Tue 23/8/22	Mon 17/4/23		NA	Thu 6/10/22	Tue 30/5/23	35 days 0.5 days		_
1535				3 days	0%	Tue 23/8/22	Thu 25/8/22			Thu 6/10/22	Sat 8/10/22		1274,1283,1296	
	Trim road formation	3 days							NA			35 days 1 day		'
1537	Lay sub base		0 days	7 days	0%	Fri 26/8/22	Fri 2/9/22	NA	NA	Mon 10/10/22	Mon 17/10/22	35 days 1 day	1536	_
1538	Lay kerb	12 days		12 days	0%	Sat 3/9/22		NA	NA	Tue 18/10/22		35 days 1 day	1537	
1539	Construct pedestrian street/ footpath	14 days		14 days	0%	Mon 19/9/22	Thu 6/10/22		NA	Tue 1/11/22	Wed 16/11/22		1538	
1540	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	]
Litle: Rev	v.11 Prog with Progress Task	Summary		-	Inactive	Milestone 🔷		Durati	on-only		Start-only	C	Ext	emal M
	-May-20			1		Summary			al Summary Rollup		Finish-only	3		adline
	Milestone	Inactive Tas	sk		Manual	ľask		Manua	al Summary		External Task	S	Cri	.ical



D	Task Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Fir	ish Late Start	Late Finish	Total Slack	TRA	Predecessors		)20   Q3
1541	Concrete infill between profile barrier	7 days	0 days	7 days	0%	Mon 24/10/22	Mon 31/10/22	NA	NA	Sat 3/12/22	Sat 10/12/22	35 days	0 days	1540	-	
1542	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		
1543	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		
1544	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		
1545	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		
1546	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,		
1547	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				
1548	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		
1549	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		
1550	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				
1551	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				
1552	Deck for Underpass (Road L14) - Temp. Works Design and Method Statement Submission	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			
1553	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		
1554	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		
1555	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		
1556	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		
1557	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		
1558	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		
1559	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		

Title: Rev.11 Prog with Progress as of 22-May-20	Task Split Milestone	•	Summary Project Summary Inactive Task	Inactive Milestone Inactive Summary Manual Task	¢	Duration-only Manual Summary Rollu Manual Summary	Start-only Finish-only External Tasks	С Э	External Milestone Deadline Critical	
						Page 36 of 36				_



Critical Split Progress Manual Progress

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# Appendix C – 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 May 2021

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

May 2021

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

# Contract No. EDO 15/2018 Environmental Monitoring at Kai Tak Development Stage 4 Infrastructure at the former runway and south apron Propose Environmental Monitoring and Weekly Site Inspection Schedule for June 2021

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

June 2021

NOTE:

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

## Air Quality Monitoring Station

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 D – Photographic records**

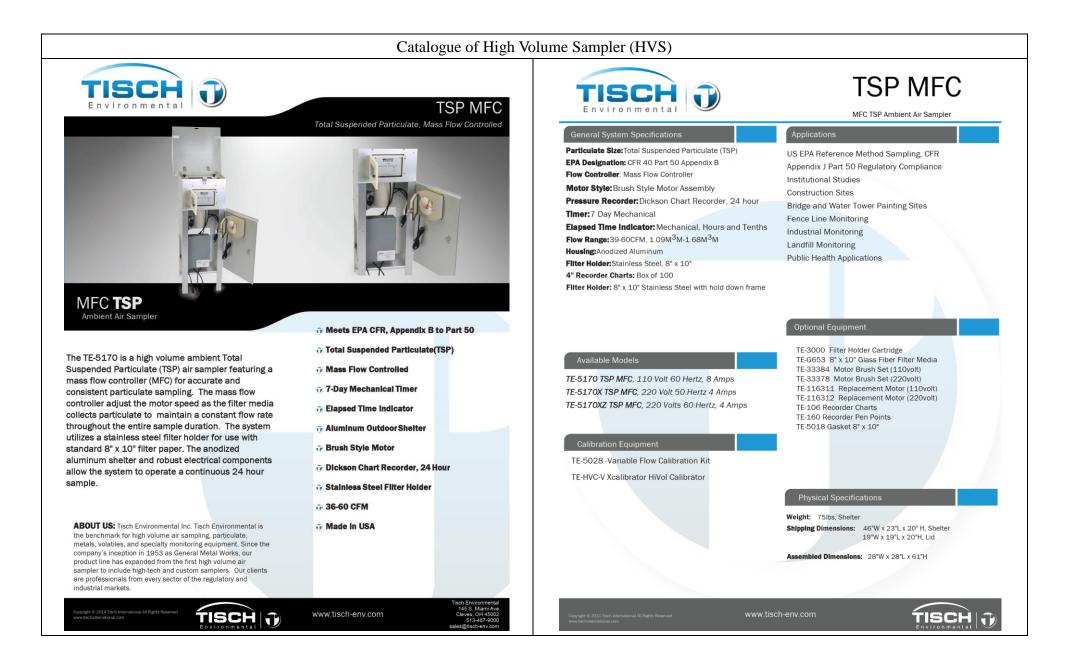
# Impact Air Quality Monitoring



# Impact Noise Monitoring



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



Calibration curve ref. 1 Location :		Air Sampler Calibration Curve Plotting & Calculation (Dickson recorder)				Air Sampler Calibration Curve Plotting & Calculation (Dickson recorder)				
Location :	No.: ATSPC-01-2	021033102 Date o	of calibration :	31/03/2021	Calibration curve ref.			of calibration :	31/03/2021	
	Sky Tower	Sampl	er :	TE-5170X		Hong Kong Society f actory cum Sheltered		er :	TE-5170X	
Calibration Data					Calibration Data					
1	ressure, Pa =754.6 2.04882	_ ` ``	ent temperature, Ta = ntercept, b = -0.0	<u>302.15</u> ( deg K ) 11270	Ambient barometric p Qstd Slope, m =	2.04882		ent temperature, Ta = intercept, b = -0.01	<u>302.15</u> ( deg K )	
Calibration Curve					Calibration Curve					
Plate No.	H ₂ O	Qstd	Ι	IC	Plate No.	H ₂ O	Qstd	Ι	IC	
	(in)	(m ³ /min)	( chart )	( corrected )		(in)	(m ³ /min)	( chart )	( corrected )	
18	7.40 6.70	1.319	49.0 45.0	48.49 44.53	18	7.10 6.50	1.292	48.0	47.50 45.52	
13	4.50	1.030	45.0	44.53 37.60	13	4.90	1.237	39.0	45.52	
7	3.60	0.922	34.0	33.65	7	3.40	0,896	33.0	32.66	
5	2.30	0,738	27.0	26.72	5	2.20	0,722	28.0	27.71	
Subsequent calculatio	on of sampler flow				Subsequent calculation	on of sampler flow		•	•	
Method	Cali	bration equation	Slope, m	Intercept, b Corr. coeff., r	Method	(	Calibration equation	Slope, m	Intercept, b Corr. coef	
	65.00         U           55.00         U           45.00         0           35.00         0           15.00         0           15.00         0.6	1.0 1.2 1.4 Qstd / IC Calibration	Qstd (m3/min) 1.6 1.8 2.0 Curve			65.00 55.00 45.00 35.00 25.00 15.00 0.6	0.8 1.0 1.2 1.4 Qstd / IC Calibration	Qstd (m3/min) 1.6 1.8 2.0 Curve		
Remark : Qs	std $(m^3 / min) = 1/m$ [S ( corrected ) = I [Sqrt (	090; (B). At least 3 Qst Sqrt (H ₂ O (Pa / 760) (2 (Pa / 760) (298 / Ta) rt (FLOW (mano) (Pa	298 / Ta ) ) - b ]. ) ].	SP range ( 1.1 - 1.7 m3 / min ).	Remark : Q	estd ( $m^3 / min$ ) = 1/m C (corrected) = I [So	0.990 ; (B). At least 3 Qs t [ Sqrt ( H ₂ O ( Pa / 760 ) ( 1 pt ( ( Pa / 760 ) ( 298 / Ta ) Sqrt ( FLOW ( mano ) ( Pa	298 / Ta ) ) - b ]. ) ].	SP range ( 1.1 - 1.7 m3 / m	

	Air Sampler	Calibration Curve Plo (Dickson recorder	0	tion	
Calibration curve ref	f. No. : ATSPC-0	1-2021033103 Date of	f calibration :	31/03/2021	
Location :	Hong Kong Children's	Hospital Sample	er :	TE-5170X	
Calibration Data					
Ambient barometric	pressure, Pa = 754	.6 (mmHg) Ambier	nt temperature, Ta =	302.15	( deg K
Qstd Slope, m =	2.04882	Qstd In	tercept, b =0.0	11270	
Calibration Curve					
Plate No.	H ₂ O	Qstd	Ι		IC
	( in )	(m ³ /min)	( chart )	· · ·	rected)
18	7.50	1.328	50.0		0.48
13	6.30	1.218	44.0		3.54
10	4.70	1.053 0.922	39.0		3.59 3.65
5	2.50	0.769	34.0 29.0		3.70
		0.705	27.0	20	
Method	<u>tion of sampler flow</u> C	alibration equation	Slope, m	Intercept, b	Corr. coeff
Dickson recorder	Qstd = 1 / m1 [(I)(	Sqrt ( ( Pav / 760 ) ( 298 / Tav )	))-b1] 36.214	0.4780	0.9960
	65.00 55.00 55.00				
	45.00 35.00 25.00 15.00 0.6	0.8 1.0 1.2 1.4 Qstd / IC Calibration C	Qsid(m3(min) 1.6 1.8 2.0 Curve		
Calibration curve rec	35.00		1.6 1.8 2.0 Curve	'SP range ( 1.1 -	1.7 m3 / mi
	35.00 25.00 15.00 0.6 ( ) (A). r >	Qstd / IC Calibration C	1.6 1.8 2.0 Curve	'SP range ( 1.1 -	1.7 m3 / min
Remark :	$35.00 \\ 25.00 \\ 15.00 \\ 0.6 $ (quirements : (A). r > Qstd (m ³ / min) = 1/m	Qstd / IC Calibration C 0.990 ; (B). At least 3 Qstc	1.6 1.8 2.0 <u>Curve</u> d numbers are in the T 98 / Ta ) ) - b ].	'SP range ( 1.1 -	- 1.7 m3 / mi
Remark : 0	$35.00 \\ 25.00 \\ 15.00 \\ 0.6 \\ ( min ) = 1/m \\ IC ( corrected ) = I [ Sq$	<u>Qstd / IC Calibration C</u> 0.990 ; (B). At least 3 Qstc [ Sqrt ( H ₂ O ( Pa / 760 ) ( 2	1.6 1.8 2.0 Curve 1 numbers are in the T 98 / Ta ) ) - b ]. )].	'SP range ( 1.1 -	1.7 m3 / mi
Remark : G	$35.00 \\ 25.00 \\ 15.00 \\ 0.6 \\ ( min ) = 1/m \\ IC ( corrected ) = I [ Sq$	<u>Qstd / IC Calibration (</u> 0.990; (B). At least 3 Qstc [ Sqrt ( H ₂ O ( Pa / 760 ) ( 2 rt ( ( Pa / 760 ) ( 298 / Ta ) ) Sqrt ( FLOW ( mano ) ( Pa /	1.6 1.8 2.0 Curve d numbers are in the T 98 / Ta ) ) - b ]. )]. 760 ) ( 298 / Ta ) ).	'SP range ( 1.1 -	1.7 m3 / mi
Remark : 0	$35.00 \\ 25.00 \\ 15.00 \\ 0.6 \\ ( min ) = 1/m \\ IC ( corrected ) = I [ Sq$	<u>Qstd / IC Calibration (</u> 0.990; (B). At least 3 Qstc [ Sqrt ( H ₂ O ( Pa / 760 ) ( 2 rt ( ( Pa / 760 ) ( 298 / Ta ) )	1.6         1.8         2.0           Curve         1         1.8         2.0           d numbers are in the T         98 / Ta ) ) - b ].         )].         .           760 ) ( 298 / Ta ) ).         .         .         .           .         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .	SP range ( 1.1 -	1.7 m3 / mi

	Air Sampler	Calibration Cu (Dickson r	8	k Calculati	ion	
Calibration curve r	ef. No. : ATSPC-01	-2021011201	Date of calibrat	on :	12/01/2021	
Model no :	GS2310		Serial number :		10346	
Calibration Data Ambient barometri Ostd Slope, m =	c pressure, Pa =767 2.04882	.4 (mmHg)	Ambient temper Qstd Intercept, I		288.85	( deg K )
Calibration Curve	H ₂ O	Qstd		I	I	С
Plate No.	( in )	(m ³ /min)		chart)		ected)
18	7.40	1.361		49.0		.01
13	6.30	1.256		46.0		.95
10	4.40	1.050		39.0		.80
7	3.40	0.924		34.0 28.0		.70
		0.744		20.0	20	.50
ubsequent calcule Method	<u>ation of sampler flow</u> Ca	libration equation		Slope, m	Intercept, b	Corr. coeff.,
ickson recorder	Qstd = 1 / m1 [(1)(1)]	1	98 / Tav ) ) ) - b1 ]	35.217	2.4316	0.9993
	65.00 55.00 45.00 25.00 15.00 0.6 0	8 1.0 1.2 Qstd / IC Calil	1.4 1.6	d (m3/min) 1.8 2.0		
Calibration curve r	equirements : (A). $r > 0$	).990 ; (B). At lea	st 3 Qstd number	s are in the TS	SP range ( 1.1 -	1.7 m3 / min
emark :	Qstd ( $m^3 / min$ ) = 1/m IC (corrected) = I [Squ FLOW (corrected) = S	t ( ( Pa / 760 ) ( 29	8 / Ta ) ) ].			
Calibrated by :	B		Checked by :	/	2	
	Poon Tsz Wing	)	Name : (	Wong	Yin Tong	)
lame : (	100h 132 Wing	,	(	0		,

Calibration Certi	ficate for Calibrator
	l Calibration
	tification Information
Operator: Jim Tisch	Pa: 753.4 mm Hg or S/N: 0006
	AVIme (m3)         ΔTime (mm Hg)         ΔP         ΔH           1         1.4300         3.2         2.00           1         1.010         6.4         4.00           1         0.9010         7.9         5.00           1         0.709         12.8         5.50
	a Tabulation
$\begin{array}{c c} Vstd \\ (m3) \\ (m3) \\ (v-axis) \\ 0.9937 \\ 0.6949 \\ 0.9875 \\ 0.9875 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 \\ 0.9863 $	Va         (v-axis)         (v-axis)           0.9958         0.6963         0.8865           0.9915         0.9817         1.2536           0.9895         1.0982         1.4016           0.9883         1.1532         1.4700           0.9830         1.3865         1.7729           m=         1.26293           OA         b=         -0.00707
Ct Vstd=  ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	lculations Va= ΔVol((Pa-ΔP)/Pa)
<b>Qstd=</b> Vstd/ΔTime	Qa=     Va/ATime       : flow rate calculations:
$\mathbf{Qstd=} 1/m\left(\!\left(\sqrt{\Delta H\!\left(\frac{Pa}{Pstd}\right)\!\left(\frac{Tstd}{Ta}\right)}\right)$	b) $\mathbf{Qa} = 1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right) - b\right)$
Standard Conditions       Tstd:     298.15 %       Pstd:     760 mm Hg       Lt:     calibrator manometer reading (in H2O)       ΔP:     rootsmeter manometer reading (inm Hg)       Ta:     actual absolute temperature ("K)       Pa:     actual barometric pressure (mm Hg)       b:     intercept       m:     slope	RECALIBRATION 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	www.tisch-env.com TOLL FREE: (877)263-7610
Village of Cleves, OH 45002	FAX: (513)467-9009

# Catalogue of Dust Meter (TSI Sidepak AM510)

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



### **User Friendly**

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

#### Advanced Features

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

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

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

#### Power to Spare

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

#### Model AM510 SidePak Personal Aerosol Monitor

Sensitivity Sensor Type
Aerosol Concentration Range

Particle Size Range

Zero stability

Minimum Resolution

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

90° light scattering,

670 nm laser diode

#### Flow Rate Range

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

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

**Operational Humidity** 

0 to 95% RH, non-condensing

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

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

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

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

#### Physical External Dimensions

Range

Weight

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

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

Input Voltage Range Output Voltage 9 VDC @ 10 A

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

Before each use User Flow Calibration As needed

Recommended annually

## Communications Interface

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

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

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

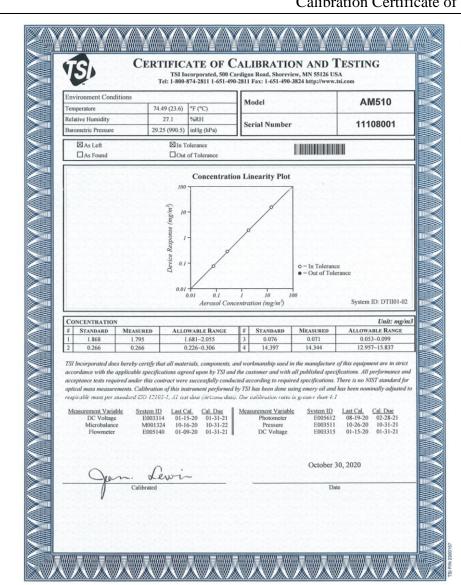
#### **Battery Performance**

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

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

#### **Battery Level Indicator**

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



# Calibration Certificate of Dust Meter (TSI Sidepak AM510)

## Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No. :	AS0210201-2	Report Issue Date:	1/2/2021
Date of performance check :	25/1/2021		

### <u>Objective:</u>

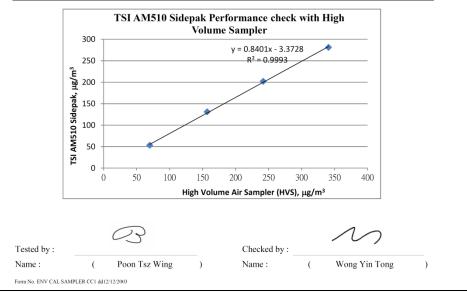
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

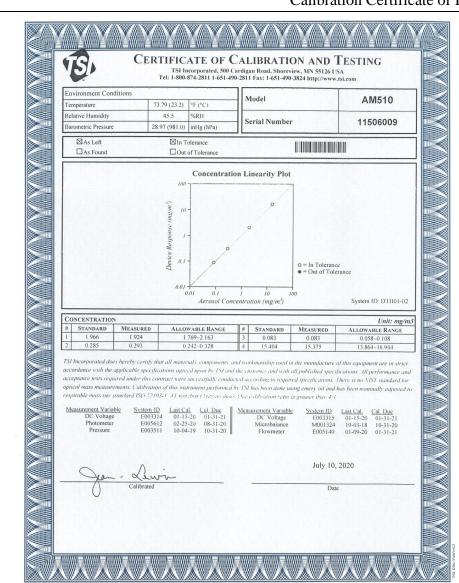
## Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11108001
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

## <u>Resuslt:</u>

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





# Calibration Certificate of Dust Meter (TSI Sidepak AM510)

## Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No. :	AS0210201-3	Report Issue Date:	1/2/2021	
Date of performance check :	25/1/2021			

### <u>Objective:</u>

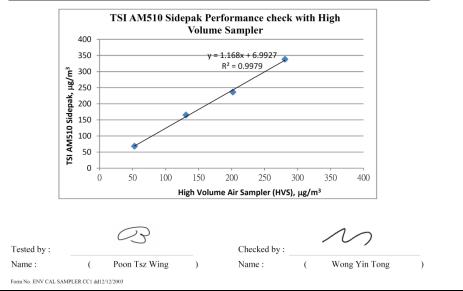
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

## Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11506009
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

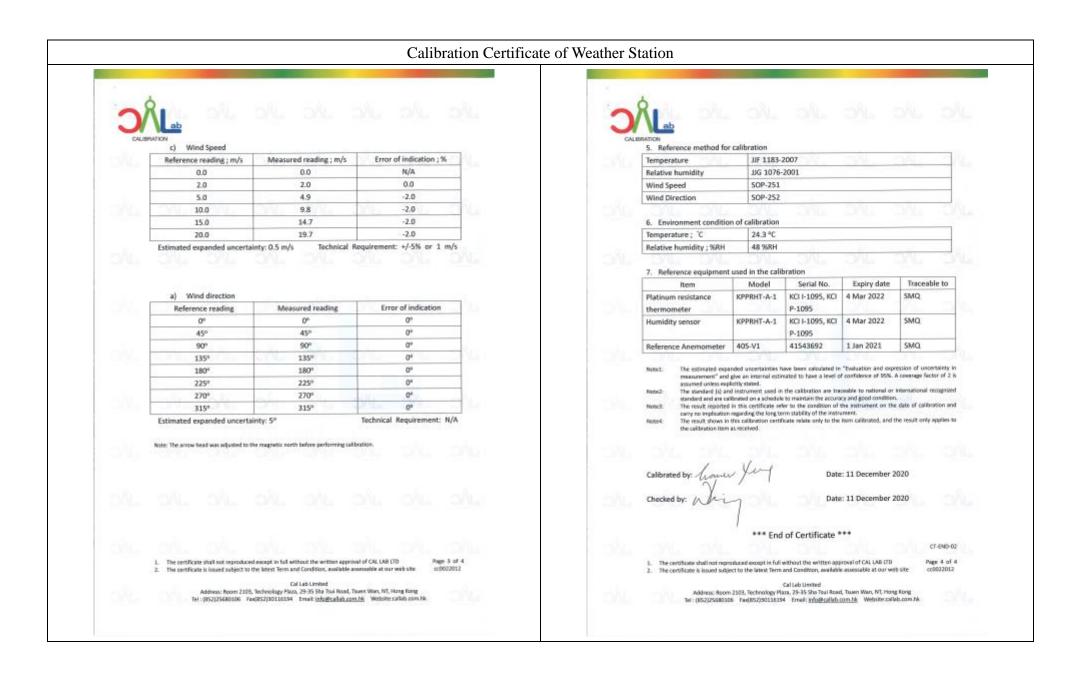
## <u>Resuslt:</u>

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



#### Catalogue of Weather Station 7 Cabled Vantage Pro2™ 6152C Vantage Pro2 & Vantage Pro2 Plus™ Stations 6162C Ultra Violet (UV) Radiation Index (requires UV sensor) Vantage Pro2[™] Range ..... 0 to 16 Index High)) The Vantage Pro2[™] (# 6152C) and Vantage Pro2[™] Plus (# 6162C) cabled weather stations include two components: the Integrated Sensor Suite (ISS) and the console. The ISS contains the sensor interface module (SIM), rain collector, an anemometer, and a passive radiation shield. The Vantage Pro2 console provides the user interface, data display, and calculations. The Vantage Pro2 Plus weather station includes two additional sensors that are optional on the Current Graph Data...... Instant Reading and Hourly Average; Daily, Monthly High Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are powered by an AC-power adapter connected to the console. Batteries can be installed in the console to provide a backup power supply. Use WeatherLink[®] to let your weather station interface with a computer, log data, and upload Alarm ...... High Threshold from Instant Calculation weather information to the Internet. The 6152C and 6162C models rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings. Wind Wind Chill (Calculated) Integrated Sensor Suite (ISS) the nearest 1°C console and ISS Source..... United States National Weather Service (NWS)/NOAA Equation Used ...... Osczevski (1995) (adopted by US NWS in 2001) Cable Type ...... 4-conductor, 26 AWG Variables Used ...... Avg. Wind Speed Current Display Data ..... Instant Calculation Maximum displayable wind decreases as the length of cable increases, at 140° (42 m) of cable, the maximum wind speed displayed is 135 mph (60 Current Graph Data ...... Instant Calculation; Hourly, Daily and Monthly Low m/s); at 240' (73 m), the maximum wind speed displayed is 100 mph (34 m/s). Historical Graph Data. . . . . . . . . . . . . . . . Hourly, Daily and Monthly Lows Wind Speed Sensor ...... Solid state magnetic sensor Alarm..... Low Threshold from Instant Calculation Wind Direction Sensor ...... Wind vane with potentiometer Wind Direction Range ...... 1 - 360° (214 cm²) collection area Temperature Sensor Type..... PN Junction Silicon Diode Relative Humidity Sensor Type ...... Film capacitor element Accuracy ..... ±3° Update Interval ..... 2.5 to 3 seconds Sensor Inputs Current Graph Data ...... Instant Reading (user adjustable); 10-min. Dominant; Hourly, Daily, RF Filtering ...... RC low-pass filter on each signal line Monthly Dominant ISS Dimensions(not including anemometer or bird spikes); Monthly Dominants Wind Speed Resolution and Units ...... 1 mph, 1 km/h, 0.4 m/s, or 1 knot (user-selectable) Measured in mph; Vantage Pro2 with Fan-Asprated Rad Shield..... 20.8" x 9.4" x 16.0" (528 mm x 239 mm x 406 mm) other units are converted from mph and rounded to nearest 1 km/hr. 0.1 Vantage Pro2 Plus with Standard Rad Shield ..... 14.3" x 9.7" x 14.5" (363 mm x 246 mm x 368 mm) m/s or 1 knot Vantage Pro2 Plus with Fan-Aspirated Rad Shield ..... 21.1" x 9.7" x 16.0" (536 mm x 246 mm x 406 mm) Update Interval ..... Instant Reading: 2.5 to 3 seconds, 10-minute Average: 1 minute length of cable from anemometer to ISS increases.) Current Display Data ..... Instant Current Graph Data ...... Instant Reading; 10-minute and Hourly Average; Hourly High; Daily, Davis Instruments 3465 Diablo Ave., Hayward, CA 94545-2778 USA (510) 732-9229 - FAX (510) 670-0589 - sales@davisinstruments.com - www.davisinstruments.com Monthly and Yearly High with Direction of High DS6152C, 6162C Rev. W 12/7/18 Highs with Direction of Highs High Thresholds from Instant Reading and 10-minute Average Alarms





# **Appendix F – Weather information**

# General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/05/2021	23.8	30	0
02/05/2021	24.5	30.8	1.2
03/05/2021	23.5	25.4	8.8
04/05/2021	23.1	31.3	12.5
05/05/2021	23.3	31.7	0.5
06/05/2021	23.4	28.6	Trace
07/05/2021	24	30.5	0
08/05/2021	25.4	30.9	0
09/05/2021	26.8	31.7	0
10/05/2021	26.4	31.8	0
11/05/2021	27.7	31.4	Trace
12/05/2021	28.2	32.1	Trace
13/05/2021	28	32	3.9
14/05/2021	28.1	34	0
15/05/2021	27.9	33.8	0
16/05/2021	28.2	33.5	Trace
17/05/2021	28.8	33.3	0
18/05/2021	28.3	32.5	1.3
19/05/2021	28.8	33.5	0
20/05/2021	29.2	33.3	0
21/05/2021	29.5	34	Trace
22/05/2021	27.8	34.3	2.6
23/05/2021	28.9	36.1	Trace
24/05/2021	27.6	31.5	15.7
25/05/2021	27.5	30.1	4.8
26/05/2021	27.8	33.5	4
27/05/2021	28.2	33.2	1
28/05/2021	28.5	33.6	0
29/05/2021	28.8	32.8	0
30/05/2021	29.2	32.3	Trace
31/05/2021	26.7	32.4	8.7

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

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2021&m=5

Date	Time	Wind Speed (m/s)	Wind Direction												
01/05/2021	0:00	1.3	225	02/05/2021	0:00	2.2	247.5	03/05/2021	0:00	1.3	135	04/05/2021	0:00	0.9	112.5
01/05/2021	1:00	0.9	225	02/05/2021	1:00	2.2	202.5	03/05/2021	1:00	1.8	135	04/05/2021	1:00	0.9	112.5
01/05/2021	2:00	1.3	247.5	02/05/2021	2:00	2.2	225	03/05/2021	2:00	0.9	67.5	04/05/2021	2:00	0.9	22.5
01/05/2021	3:00	0.9	247.5	02/05/2021	3:00	1.8	202.5	03/05/2021	3:00	1.3	112.5	04/05/2021	3:00	0.9	112.5
01/05/2021	4:00	0.9	247.5	02/05/2021	4:00	1.3	202.5	03/05/2021	4:00	1.3	67.5	04/05/2021	4:00	1.3	112.5
01/05/2021	5:00	0.9	247.5	02/05/2021	5:00	1.3	202.5	03/05/2021	5:00	1.3	67.5	04/05/2021	5:00	0.9	112.5
01/05/2021	6:00	0.4	247.5	02/05/2021	6:00	1.3	225	03/05/2021	6:00	1.3	337.5	04/05/2021	6:00	0.9	135
01/05/2021	7:00	0.4	247.5	02/05/2021	7:00	1.3	270	03/05/2021	7:00	1.8	135	04/05/2021	7:00	0.9	112.5
01/05/2021	8:00	0.9	112.5	02/05/2021	8:00	1.3	247.5	03/05/2021	8:00	1.3	157.5	04/05/2021	8:00	0.9	135
01/05/2021	9:00	0.4	112.5	02/05/2021	9:00	1.3	225	03/05/2021	9:00	1.3	22.5	04/05/2021	9:00	0.9	135
01/05/2021	10:00	0.9	112.5	02/05/2021	10:00	1.3	180	03/05/2021	10:00	1.8	67.5	04/05/2021	10:00	0.9	112.5
01/05/2021	11:00	0.9	67.5	02/05/2021	11:00	1.8	247.5	03/05/2021	11:00	1.3	90	04/05/2021	11:00	0.9	112.5
01/05/2021	12:00	0.4	22.5	02/05/2021	12:00	1.3	225	03/05/2021	12:00	2.2	45	04/05/2021	12:00	1.3	135
01/05/2021	13:00	0.9	135	02/05/2021	13:00	1.3	202.5	03/05/2021	13:00	1.3	45	04/05/2021	13:00	0.9	135
01/05/2021	14:00	0.9	45	02/05/2021	14:00	1.3	112.5	03/05/2021	14:00	1.8	67.5	04/05/2021	14:00	0.9	112.5
01/05/2021	15:00	0.9	315	02/05/2021	15:00	1.3	112.5	03/05/2021	15:00	1.8	90	04/05/2021	15:00	0.9	135
01/05/2021	16:00	0.4	225	02/05/2021	16:00	1.3	112.5	03/05/2021	16:00	1.8	90	04/05/2021	16:00	0.9	112.5
01/05/2021	17:00	0.4	135	02/05/2021	17:00	1.3	112.5	03/05/2021	17:00	1.3	22.5	04/05/2021	17:00	2.2	112.5
01/05/2021	18:00	0.4	112.5	02/05/2021	18:00	0.9	112.5	03/05/2021	18:00	1.8	112.5	04/05/2021	18:00	1.3	90
01/05/2021	19:00	0.4	112.5	02/05/2021	19:00	0.4	112.5	03/05/2021	19:00	1.3	135	04/05/2021	19:00	0.9	90
01/05/2021	20:00	0.9	90	02/05/2021	20:00	0.4	112.5	03/05/2021	20:00	1.3	112.5	04/05/2021	20:00	1.3	67.5
01/05/2021	21:00	0.4	112.5	02/05/2021	21:00	0.4	112.5	03/05/2021	21:00	1.3	135	04/05/2021	21:00	0.4	90
01/05/2021	22:00	0.4	135	02/05/2021	22:00	0.9	112.5	03/05/2021	22:00	0.9	90	04/05/2021	22:00	0.4	90
01/05/2021	23:00	0.4	135	02/05/2021	23:00	0.9	112.5	03/05/2021	23:00	0.9	67.5	04/05/2021	23:00	0.4	90

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

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

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
09/05/2021	0:00	0.4	112.5	10/05/2021	0:00	0.9	90	11/05/2021	0:00	0.9	135	12/05/2021	0:00	0.9	90
09/05/2021	1:00	0.9	337.5	10/05/2021	1:00	0.9	135	11/05/2021	1:00	0.9	90	12/05/2021	1:00	0.9	45
09/05/2021	2:00	1.3	247.5	10/05/2021	2:00	0.4	135	11/05/2021	2:00	0.4	112.5	12/05/2021	2:00	1.3	67.5
09/05/2021	3:00	1.3	225	10/05/2021	3:00	0.4	135	11/05/2021	3:00	0.4	90	12/05/2021	3:00	1.3	45
09/05/2021	4:00	1.3	247.5	10/05/2021	4:00	0.4	90	11/05/2021	4:00	0.9	90	12/05/2021	4:00	1.3	135
09/05/2021	5:00	0.9	247.5	10/05/2021	5:00	0.4	112.5	11/05/2021	5:00	0.9	157.5	12/05/2021	5:00	0.9	157.5
09/05/2021	6:00	0.4	247.5	10/05/2021	6:00	0.4	90	11/05/2021	6:00	0.4	112.5	12/05/2021	6:00	0.9	112.5
09/05/2021	7:00	0.4	225	10/05/2021	7:00	0.4	67.5	11/05/2021	7:00	0.9	112.5	12/05/2021	7:00	0.4	90
09/05/2021	8:00	0.9	247.5	10/05/2021	8:00	0.4	90	11/05/2021	8:00	0.4	112.5	12/05/2021	8:00	0.9	67.5
09/05/2021	9:00	0.9	247.5	10/05/2021	9:00	0.4	90	11/05/2021	9:00	0.4	135	12/05/2021	9:00	0.9	112.5
09/05/2021	10:00	0.9	270	10/05/2021	10:00	0.4	135	11/05/2021	10:00	1.3	157.5	12/05/2021	10:00	0.9	45
09/05/2021	11:00	0.9	247.5	10/05/2021	11:00	0.9	135	11/05/2021	11:00	1.3	90	12/05/2021	11:00	0.4	135
09/05/2021	12:00	0.9	247.5	10/05/2021	12:00	0.9	135	11/05/2021	12:00	1.3	112.5	12/05/2021	12:00	0.9	67.5
09/05/2021	13:00	0.4	247.5	10/05/2021	13:00	1.3	90	11/05/2021	13:00	1.3	67.5	12/05/2021	13:00	0.4	135
09/05/2021	14:00	0.9	225	10/05/2021	14:00	0.9	135	11/05/2021	14:00	0.9	180	12/05/2021	14:00	0.4	67.5
09/05/2021	15:00	0.9	270	10/05/2021	15:00	0.9	67.5	11/05/2021	15:00	0.9	180	12/05/2021	15:00	0.9	67.5
09/05/2021	16:00	0.4	270	10/05/2021	16:00	0.9	112.5	11/05/2021	16:00	1.3	112.5	12/05/2021	16:00	0.9	90
09/05/2021	17:00	0.4	112.5	10/05/2021	17:00	0.4	292.5	11/05/2021	17:00	0.9	45	12/05/2021	17:00	0.9	90
09/05/2021	18:00	0.9	45	10/05/2021	18:00	0.9	67.5	11/05/2021	18:00	0.9	67.5	12/05/2021	18:00	0.9	90
09/05/2021	19:00	0.4	45	10/05/2021	19:00	0.9	90	11/05/2021	19:00	1.3	67.5	12/05/2021	19:00	1.3	67.5
09/05/2021	20:00	0.4	45	10/05/2021	20:00	0.9	45	11/05/2021	20:00	0.9	67.5	12/05/2021	20:00	0.9	67.5
09/05/2021	21:00	0.4	67.5	10/05/2021	21:00	0.4	45	11/05/2021	21:00	0.4	67.5	12/05/2021	21:00	1.3	67.5
09/05/2021	22:00	0.4	45	10/05/2021	22:00	0.9	22.5	11/05/2021	22:00	0.9	45	12/05/2021	22:00	0.9	67.5
09/05/2021	23:00	0.4	45	10/05/2021	23:00	0.9	67.5	11/05/2021	23:00	0.4	90	12/05/2021	23:00	0.4	45

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
13/05/2021	0:00	0.9	112.5	14/05/2021	0:00	0.9	112.5	15/05/2021	0:00	0.9	112.5	16/05/2021	0:00	0.9	45
13/05/2021	1:00	0.9	112.5	14/05/2021	1:00	0.9	112.5	15/05/2021	1:00	0.9	67.5	16/05/2021	1:00	0.9	135
13/05/2021	2:00	0.4	112.5	14/05/2021	2:00	0.9	112.5	15/05/2021	2:00	0.9	67.5	16/05/2021	2:00	0.9	135
13/05/2021	3:00	0.4	112.5	14/05/2021	3:00	0.4	90	15/05/2021	3:00	0.9	45	16/05/2021	3:00	0.9	22.5
13/05/2021	4:00	1.3	135	14/05/2021	4:00	0.4	112.5	15/05/2021	4:00	1.3	90	16/05/2021	4:00	0.9	45
13/05/2021	5:00	1.3	135	14/05/2021	5:00	0.4	135	15/05/2021	5:00	0.9	90	16/05/2021	5:00	0.9	45
13/05/2021	6:00	1.3	112.5	14/05/2021	6:00	0.4	112.5	15/05/2021	6:00	0.9	67.5	16/05/2021	6:00	1.3	90
13/05/2021	7:00	1.3	90	14/05/2021	7:00	0.9	112.5	15/05/2021	7:00	0.9	90	16/05/2021	7:00	0.9	90
13/05/2021	8:00	1.8	112.5	14/05/2021	8:00	0.9	112.5	15/05/2021	8:00	0.9	90	16/05/2021	8:00	0.9	67.5
13/05/2021	9:00	1.3	112.5	14/05/2021	9:00	1.3	67.5	15/05/2021	9:00	0.9	90	16/05/2021	9:00	0.9	90
13/05/2021	10:00	1.3	112.5	14/05/2021	10:00	1.3	157.5	15/05/2021	10:00	0.9	112.5	16/05/2021	10:00	0.9	90
13/05/2021	11:00	0.4	112.5	14/05/2021	11:00	1.3	112.5	15/05/2021	11:00	0.9	90	16/05/2021	11:00	0.9	112.5
13/05/2021	12:00	0.4	112.5	14/05/2021	12:00	1.3	112.5	15/05/2021	12:00	0.9	67.5	16/05/2021	12:00	0.9	67.5
13/05/2021	13:00	0.4	112.5	14/05/2021	13:00	1.3	112.5	15/05/2021	13:00	0.9	90	16/05/2021	13:00	0.9	67.5
13/05/2021	14:00	0.4	112.5	14/05/2021	14:00	1.8	112.5	15/05/2021	14:00	0.9	22.5	16/05/2021	14:00	0.9	67.5
13/05/2021	15:00	0.4	112.5	14/05/2021	15:00	1.3	112.5	15/05/2021	15:00	0.4	90	16/05/2021	15:00	0.9	67.5
13/05/2021	16:00	0.9	112.5	14/05/2021	16:00	1.8	112.5	15/05/2021	16:00	0.4	67.5	16/05/2021	16:00	0.9	22.5
13/05/2021	17:00	0.9	112.5	14/05/2021	17:00	0.9	112.5	15/05/2021	17:00	0.4	90	16/05/2021	17:00	1.3	67.5
13/05/2021	18:00	1.3	112.5	14/05/2021	18:00	0.9	90	15/05/2021	18:00	0.4	112.5	16/05/2021	18:00	0.9	67.5
13/05/2021	19:00	0.9	112.5	14/05/2021	19:00	0.9	90	15/05/2021	19:00	0.9	45	16/05/2021	19:00	0.9	67.5
13/05/2021	20:00	1.3	112.5	14/05/2021	20:00	0.9	90	15/05/2021	20:00	0.9	90	16/05/2021	20:00	0.9	22.5
13/05/2021	21:00	1.3	112.5	14/05/2021	21:00	0.9	112.5	15/05/2021	21:00	0.9	67.5	16/05/2021	21:00	1.3	45
13/05/2021	22:00	0.9	112.5	14/05/2021	22:00	0.9	90	15/05/2021	22:00	0.4	135	16/05/2021	22:00	1.3	45
13/05/2021	23:00	0.9	157.5	14/05/2021	23:00	0.9	112.5	15/05/2021	23:00	0.9	67.5	16/05/2021	23:00	0.9	45

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
17/05/2021	0:00	0.9	112.5	18/05/2021	0:00	0.9	225	19/05/2021	0:00	0.4	112.5	20/05/2021	0:00	1.3	67.5
17/05/2021	1:00	0.9	45	18/05/2021	1:00	0.4	112.5	19/05/2021	1:00	0.9	112.5	20/05/2021	1:00	0.9	45
17/05/2021	2:00	0.4	90	18/05/2021	2:00	0.9	67.5	19/05/2021	2:00	0.4	112.5	20/05/2021	2:00	0.9	67.5
17/05/2021	3:00	0.9	67.5	18/05/2021	3:00	0.4	135	19/05/2021	3:00	0.9	90	20/05/2021	3:00	0.9	45
17/05/2021	4:00	0.9	112.5	18/05/2021	4:00	0.4	157.5	19/05/2021	4:00	0.4	67.5	20/05/2021	4:00	1.3	67.5
17/05/2021	5:00	0.9	90	18/05/2021	5:00	0.4	157.5	19/05/2021	5:00	0.4	45	20/05/2021	5:00	0.9	112.5
17/05/2021	6:00	0.9	67.5	18/05/2021	6:00	0.4	112.5	19/05/2021	6:00	0.4	112.5	20/05/2021	6:00	1.3	112.5
17/05/2021	7:00	0.4	90	18/05/2021	7:00	0.4	112.5	19/05/2021	7:00	0.4	180	20/05/2021	7:00	1.3	90
17/05/2021	8:00	0.4	22.5	18/05/2021	8:00	0.4	112.5	19/05/2021	8:00	0.4	270	20/05/2021	8:00	1.3	67.5
17/05/2021	9:00	0.9	157.5	18/05/2021	9:00	0.9	180	19/05/2021	9:00	0.4	45	20/05/2021	9:00	1.3	112.5
17/05/2021	10:00	0.9	112.5	18/05/2021	10:00	0.9	112.5	19/05/2021	10:00	0.9	45	20/05/2021	10:00	1.8	67.5
17/05/2021	11:00	0.4	112.5	18/05/2021	11:00	0.4	90	19/05/2021	11:00	0.9	90	20/05/2021	11:00	1.3	67.5
17/05/2021	12:00	0.4	112.5	18/05/2021	12:00	0.4	135	19/05/2021	12:00	0.4	45	20/05/2021	12:00	0.9	67.5
17/05/2021	13:00	0.4	112.5	18/05/2021	13:00	0.4	90	19/05/2021	13:00	0.4	135	20/05/2021	13:00	0.9	67.5
17/05/2021	14:00	0.4	67.5	18/05/2021	14:00	0.4	90	19/05/2021	14:00	0.9	247.5	20/05/2021	14:00	1.8	22.5
17/05/2021	15:00	0.9	45	18/05/2021	15:00	0.4	112.5	19/05/2021	15:00	0.9	270	20/05/2021	15:00	0.9	90
17/05/2021	16:00	0.4	90	18/05/2021	16:00	0.9	112.5	19/05/2021	16:00	0.9	45	20/05/2021	16:00	0.4	90
17/05/2021	17:00	0.9	135	18/05/2021	17:00	0.4	180	19/05/2021	17:00	0.9	67.5	20/05/2021	17:00	0.4	45
17/05/2021	18:00	0.9	135	18/05/2021	18:00	0.4	270	19/05/2021	18:00	0.9	45	20/05/2021	18:00	0.9	45
17/05/2021	19:00	0.9	112.5	18/05/2021	19:00	0.4	135	19/05/2021	19:00	1.3	45	20/05/2021	19:00	0.4	67.5
17/05/2021	20:00	0.9	45	18/05/2021	20:00	0.4	90	19/05/2021	20:00	1.3	45	20/05/2021	20:00	0.4	45
17/05/2021	21:00	0.9	90	18/05/2021	21:00	0.9	67.5	19/05/2021	21:00	1.3	247.5	20/05/2021	21:00	0.4	45
17/05/2021	22:00	0.9	112.5	18/05/2021	22:00	0.4	135	19/05/2021	22:00	1.3	270	20/05/2021	22:00	0.9	270
17/05/2021	23:00	0.9	90	18/05/2021	23:00	0.9	90	19/05/2021	23:00	1.3	112.5	20/05/2021	23:00	0.9	45

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
21/05/2021	0:00	0.9	135	22/05/2021	0:00	1.3	112.5	23/05/2021	0:00	1.3	67.5	24/05/2021	0:00	0.9	112.5
21/05/2021	1:00	0.4	112.5	22/05/2021	1:00	1.3	90	23/05/2021	1:00	0.9	90	24/05/2021	1:00	0.9	112.5
21/05/2021	2:00	0.4	67.5	22/05/2021	2:00	1.8	67.5	23/05/2021	2:00	1.3	90	24/05/2021	2:00	0.9	135
21/05/2021	3:00	0.9	45	22/05/2021	3:00	0.9	45	23/05/2021	3:00	0.9	112.5	24/05/2021	3:00	0.9	112.5
21/05/2021	4:00	0.9	45	22/05/2021	4:00	0.9	45	23/05/2021	4:00	0.9	22.5	24/05/2021	4:00	0.9	112.5
21/05/2021	5:00	0.9	67.5	22/05/2021	5:00	1.8	67.5	23/05/2021	5:00	1.3	112.5	24/05/2021	5:00	0.9	90
21/05/2021	6:00	0.9	270	22/05/2021	6:00	1.8	45	23/05/2021	6:00	1.3	135	24/05/2021	6:00	1.3	112.5
21/05/2021	7:00	0.4	225	22/05/2021	7:00	1.3	45	23/05/2021	7:00	1.3	112.5	24/05/2021	7:00	1.3	112.5
21/05/2021	8:00	0.9	225	22/05/2021	8:00	1.3	67.5	23/05/2021	8:00	1.3	112.5	24/05/2021	8:00	1.3	112.5
21/05/2021	9:00	0.9	292.5	22/05/2021	9:00	1.8	157.5	23/05/2021	9:00	0.9	135	24/05/2021	9:00	0.9	112.5
21/05/2021	10:00	0.9	247.5	22/05/2021	10:00	1.8	67.5	23/05/2021	10:00	1.3	90	24/05/2021	10:00	0.9	112.5
21/05/2021	11:00	0.9	270	22/05/2021	11:00	1.8	67.5	23/05/2021	11:00	1.3	112.5	24/05/2021	11:00	0.9	90
21/05/2021	12:00	0.9	270	22/05/2021	12:00	1.8	90	23/05/2021	12:00	1.3	112.5	24/05/2021	12:00	0.9	90
21/05/2021	13:00	0.9	67.5	22/05/2021	13:00	1.3	112.5	23/05/2021	13:00	1.3	112.5	24/05/2021	13:00	1.3	112.5
21/05/2021	14:00	0.9	67.5	22/05/2021	14:00	0.4	90	23/05/2021	14:00	1.3	112.5	24/05/2021	14:00	1.3	112.5
21/05/2021	15:00	0.9	112.5	22/05/2021	15:00	0.9	112.5	23/05/2021	15:00	2.2	112.5	24/05/2021	15:00	0.9	135
21/05/2021	16:00	0.9	90	22/05/2021	16:00	0.9	67.5	23/05/2021	16:00	1.8	112.5	24/05/2021	16:00	0.9	112.5
21/05/2021	17:00	0.4	90	22/05/2021	17:00	0.9	90	23/05/2021	17:00	1.8	112.5	24/05/2021	17:00	0.4	112.5
21/05/2021	18:00	0.9	112.5	22/05/2021	18:00	1.3	135	23/05/2021	18:00	1.8	112.5	24/05/2021	18:00	0.9	112.5
21/05/2021	19:00	1.3	45	22/05/2021	19:00	0.9	90	23/05/2021	19:00	0.9	67.5	24/05/2021	19:00	0.4	112.5
21/05/2021	20:00	0.9	67.5	22/05/2021	20:00	0.4	90	23/05/2021	20:00	0.9	112.5	24/05/2021	20:00	0.4	112.5
21/05/2021	21:00	0.9	135	22/05/2021	21:00	0.4	112.5	23/05/2021	21:00	0.9	112.5	24/05/2021	21:00	0.9	135
21/05/2021	22:00	0.9	90	22/05/2021	22:00	0.4	90	23/05/2021	22:00	0.4	112.5	24/05/2021	22:00	0.9	112.5
21/05/2021	23:00	0.9	67.5	22/05/2021	23:00	0.4	67.5	23/05/2021	23:00	0.4	112.5	24/05/2021	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
25/05/2021	0:00	0.9	90	26/05/2021	0:00	0.4	45	27/05/2021	0:00	1.3	45	28/05/2021	0:00	0.9	270
25/05/2021	1:00	0.9	45	26/05/2021	1:00	1.3	45	27/05/2021	1:00	1.8	45	28/05/2021	1:00	1.3	225
25/05/2021	2:00	0.9	112.5	26/05/2021	2:00	1.3	45	27/05/2021	2:00	1.8	45	28/05/2021	2:00	1.3	247.5
25/05/2021	3:00	0.9	135	26/05/2021	3:00	0.9	90	27/05/2021	3:00	1.3	45	28/05/2021	3:00	0.9	270
25/05/2021	4:00	1.3	135	26/05/2021	4:00	0.4	90	27/05/2021	4:00	1.3	45	28/05/2021	4:00	1.3	247.5
25/05/2021	5:00	1.3	135	26/05/2021	5:00	0.4	135	27/05/2021	5:00	1.3	67.5	28/05/2021	5:00	0.9	247.5
25/05/2021	6:00	0.9	112.5	26/05/2021	6:00	0.4	180	27/05/2021	6:00	1.8	45	28/05/2021	6:00	0.9	247.5
25/05/2021	7:00	1.3	112.5	26/05/2021	7:00	0.4	135	27/05/2021	7:00	1.3	45	28/05/2021	7:00	0.9	247.5
25/05/2021	8:00	0.9	112.5	26/05/2021	8:00	0.4	225	27/05/2021	8:00	1.3	67.5	28/05/2021	8:00	1.3	247.5
25/05/2021	9:00	0.9	112.5	26/05/2021	9:00	0.4	270	27/05/2021	9:00	1.3	45	28/05/2021	9:00	1.3	247.5
25/05/2021	10:00	0.9	112.5	26/05/2021	10:00	0.9	135	27/05/2021	10:00	1.3	45	28/05/2021	10:00	0.9	247.5
25/05/2021	11:00	1.3	112.5	26/05/2021	11:00	0.9	157.5	27/05/2021	11:00	1.3	225	28/05/2021	11:00	0.9	247.5
25/05/2021	12:00	0.9	112.5	26/05/2021	12:00	0.9	225	27/04/2021	12:00	1.3	270	28/05/2021	12:00	0.9	247.5
25/05/2021	13:00	0.9	112.5	26/05/2021	13:00	0.9	67.5	27/05/2021	13:00	0.9	112.5	28/05/2021	13:00	1.3	247.5
25/05/2021	14:00	1.3	112.5	26/05/2021	14:00	1.3	90	27/05/2021	14:00	0.9	112.5	28/05/2021	14:00	1.8	247.5
25/05/2021	15:00	1.3	112.5	26/05/2021	15:00	0.9	225	27/05/2021	15:00	1.3	112.5	28/05/2021	15:00	1.8	270
25/05/2021	16:00	0.9	112.5	26/05/2021	16:00	0.9	112.5	27/05/2021	16:00	1.3	112.5	28/05/2021	16:00	1.8	225
25/05/2021	17:00	0.9	112.5	26/05/2021	17:00	0.9	45	27/05/2021	17:00	1.3	112.5	28/05/2021	17:00	0.9	247.5
25/05/2021	18:00	0.9	90	26/05/2021	18:00	1.3	270	27/05/2021	18:00	0.9	112.5	28/05/2021	18:00	0.9	247.5
25/05/2021	19:00	1.3	67.5	26/05/2021	19:00	1.3	112.5	27/05/2021	19:00	0.9	112.5	28/05/2021	19:00	0.9	270
25/05/2021	20:00	0.9	90	26/05/2021	20:00	0.4	90	27/05/2021	20:00	1.3	112.5	28/05/2021	20:00	0.9	247.5
25/05/2021	21:00	0.9	112.5	26/05/2021	21:00	0.4	45	27/05/2021	21:00	0.9	247.5	28/05/2021	21:00	1.3	270
25/05/2021	22:00	0.9	112.5	26/05/2021	22:00	0.9	45	27/05/2021	22:00	0.9	112.5	28/05/2021	22:00	0.9	315
25/05/2021	23:00	1.3	112.5	26/05/2021	23:00	1.3	90	27/05/2021	23:00	1.3	112.5	28/0/2021	23:00	0.9	45

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

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
29/05/2021	0:00	1.3	90	30/05/2021	0:00	1.8	135	31/05/2021	0:00	2.7	112.5				
29/05/2021	1:00	1.3	90	30/05/2021	1:00	1.3	135	31/05/2021	1:00	3.1	247.5				
29/05/2021	2:00	1.8	112.5	30/05/2021	2:00	2.2	90	31/05/2021	2:00	2.7	247.5				
29/05/2021	3:00	1.3	112.5	30/05/2021	3:00	2.7	45	31/05/2021	3:00	2.7	247.5				
29/05/2021	4:00	1.3	112.5	30/05/2021	4:00	2.7	45	31/05/2021	4:00	1.8	247.5				
29/05/2021	5:00	1.3	112.5	30/05/2021	5:00	1.8	45	31/05/2021	5:00	2.2	225				
29/05/2021	6:00	1.3	112.5	30/05/2021	6:00	1.3	45	31/05/2021	6:00	2.7	247.5				
29/05/2021	7:00	0.9	112.5	30/05/2021	7:00	2.2	22.5	31/05/2021	7:00	2.7	270				
29/05/2021	8:00	1.3	112.5	30/05/2021	8:00	2.2	45	31/05/2021	8:00	2.7	247.5				
29/05/2021	9:00	0.9	112.5	30/05/2021	9:00	1.3	45	31/05/2021	9:00	3.1	247.5				
29/05/2021	10:00	1.3	112.5	30/05/2021	10:00	0.9	45	31/05/2021	10:00	2.2	247.5				
29/05/2021	11:00	2.2	112.5	30/05/2021	11:00	2.2	67.5	31/05/2021	11:00	1.8	247.5				
29/05/2021	12:00	1.3	112.5	30/05/2021	12:00	2.7	22.5	31/05/2021	12:00	0.9	247.5				
29/05/2021	13:00	0.9	135	30/05/2021	13:00	2.7	247.5	31/05/2021	13:00	0.9	247.5				
29/05/2021	14:00	0.9	135	30/05/2021	14:00	2.2	270	31/05/2021	14:00	1.3	225				
29/05/2021	15:00	0.9	135	30/05/2021	15:00	1.8	247.5	31/05/2021	15:00	0.9	270				
29/05/2021	16:00	1.3	135	30/05/2021	16:00	0.9	45	31/05/2021	16:00	1.3	270				
29/05/2021	17:00	0.9	112.5	30/05/2021	17:00	1.3	270	31/05/2021	17:00	0.9	270				
29/05/2021	18:00	0.9	112.5	30/05/2021	18:00	1.8	247.5	31/05/2021	18:00	1.3	270				
29/05/2021	19:00	0.9	112.5	30/05/2021	19:00	2.7	45	31/05/2021	19:00	2.7	247.5				
29/05/2021	20:00	0.9	112.5	30/05/2021	20:00	1.8	247.5	31/05/2021	20:00	1.8	270				
29/05/2021	21:00	0.9	112.5	30/05/2021	21:00	1.8	270	31/05/2021	21:00	0.9	247.5				
29/05/2021	22:00	1.3	67.5	30/05/2021	22:00	1.8	270	31/05/2021	22:00	1.3	247.5				
29/05/2021	23:00	0.9	247.5	30/05/2021	23:00	1.3	247.5	31/05/2021	23:00	1.3	292.5				

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Appendix G – 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	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m ³ )	(µg/m ³ )
06/05/2021	Sunny	28	1015.4	11.6437	11.8161	0.1724	2899.25	2923.28	1442	52	52	1.43	2062	84
12/05/2021	Sunny	31.1	1008.3	11.6750	11.7375	0.0625	2924.51	2948.53	1441	52	52	1.42	2043	31
18/05/2021	Sunny	33.8	1009.2	11.6665	11.7272	0.0607	2949.71	2973.73	1441	52	52	1.41	2035	30
24/05/2021	Cloudy	29.6	1009.6	11.6847	11.7726	0.0879	2974.34	2998.36	1441	52	52	1.42	2050	43
29/05/2021	Cloudy	32.2	1007.1	11.7478	11.8133	0.0655	2999.09	3023.11	1441	52	52	1.41	2039	32
												Maxir	num	84
												Minin	num	30
												Aver	age	44
												Action	Level	182
												Limit I	Level	260

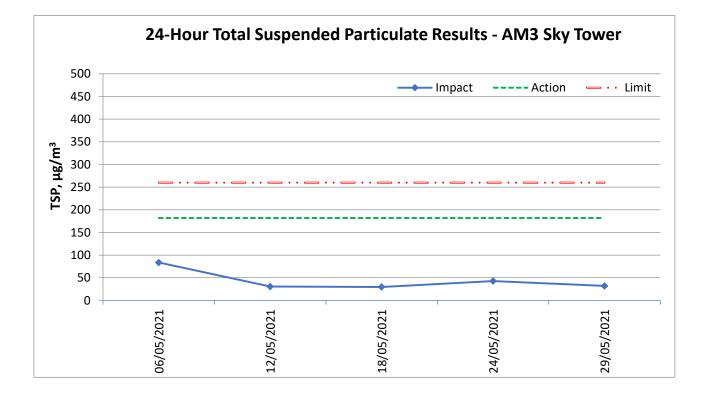
Location: AM4(A) – The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

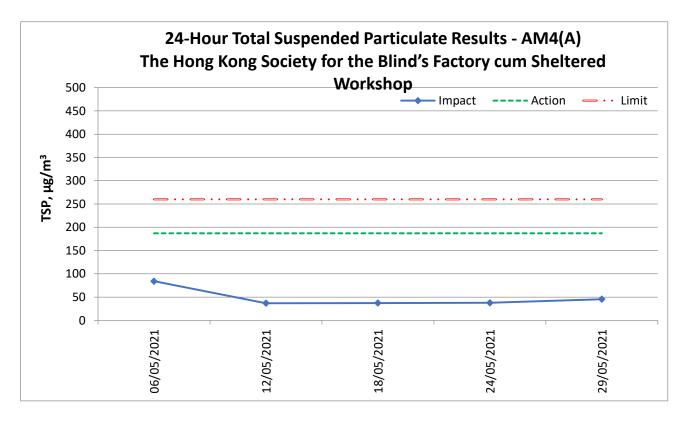
Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m ³ )	$(\mu g/m^3)$
06/05/2021	Sunny	28	1015.4	15.8298	15.9957	0.1659	2542.58	2566.6	1441	50	50	1.37	1972	84
12/05/2021	Sunny	31.1	1008.3	18.3703	18.4393	0.0690	2566.86	2590.88	1441	48	48	1.30	1874	37
18/05/2021	Sunny	33.8	1009.2	11.6303	11.7028	0.0725	2591.22	2615.24	1441	50	50	1.35	1947	37
24/05/2021	Cloudy	29.6	1009.6	11.6105	11.6843	0.0738	2616.28	2640.29	1441	50	50	1.36	1960	38
29/05/2021	Cloudy	32.2	1007.1	18.1603	18.2489	0.0886	2641.33	2665.35	1441	50	50	1.35	1950	45
												Maxin	num	84
												Minin	num	37
												Avera	age	48
												Action	Level	187
												Limit I	Level	260

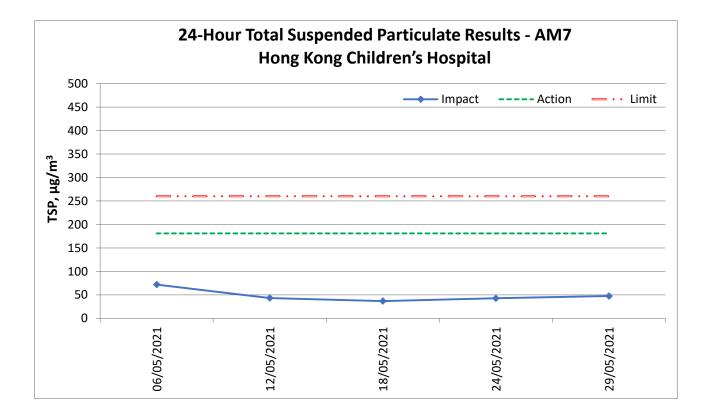
Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m ³ )	(µg/m ³ )
06/05/2021	Sunny	28	1015.4	18.5106	18.6462	0.1356	7446.01	7470.04	1442	48	48	1.31	1884	72
12/05/2021	Sunny	31.1	1008.3	18.5436	18.6175	0.0739	7472.81	7496.83	1441	44	44	1.19	1710	43
18/05/2021	Sunny	33.8	1009.2	11.7711	11.8397	0.0686	7497.12	7521.15	1442	48	48	1.29	1861	37
24/05/2021	Cloudy	29.6	1009.6	11.6165	11.6965	0.0800	7521.26	7545.28	1441	48	48	1.30	1873	43
29/05/2021	Cloudy	32.2	1007.1	18.4983	18.5944	0.0961	7545.45	7569.48	1442	52	52	1.40	2020	48
												Maxin	num	72
												Minim	num	37
												Avera	age	48
												Action I	Level	181
												Limit L	Level	260

Location: AM7 – Hong Kong Children's Hospital

#### 24-hour average TSP







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

Date	Measure	emer	nt Period	1-hr TSP concentration, $\mu g/m^3$	Weather
	9:00	-	10:00	44	
6/5/2021	10:00	-	11:00	50	Sunny
	11:00	-	12:00	57	
	9:00	-	10:00	21	
12/5/2021	10:00	-	11:00	22	Sunny
	11:00	-	12:00	24	
	13:00	-	14:00	18	
18/5/2021	14:00	-	15:00	19	Sunny
	15:00	-	16:00	22	
	13:00	-	14:00	27	
24/5/2021	14:00	-	15:00	29	Cloudy
	15:00	-	16:00	35	
	9:00	-	10:00	15	
29/5/2021	10:00	-	11:00	16	Cloudy
	11:00	-	12:00	20	
N	laximum			57	
Ν	linimum			15	
	Average			28	
Ac	tion Level			297	
Li	mit Level			500	

#### Location:

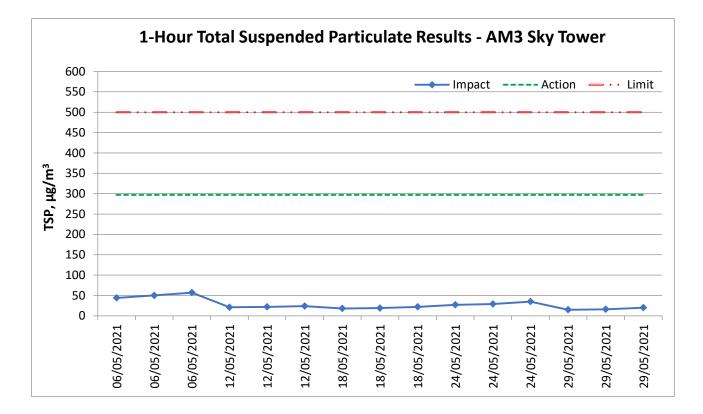
## AM3 -

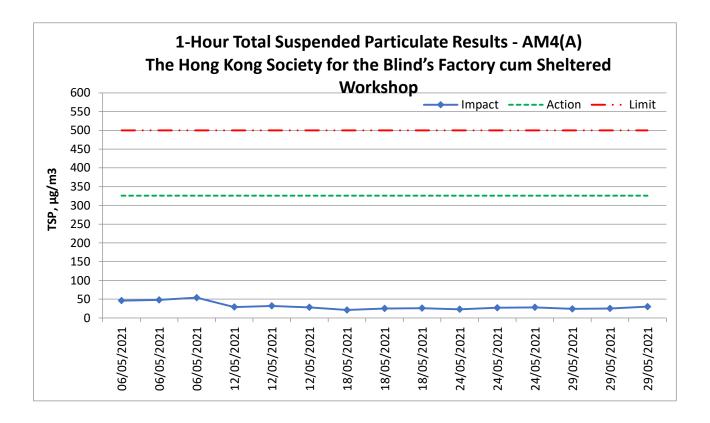
### Sky Tower

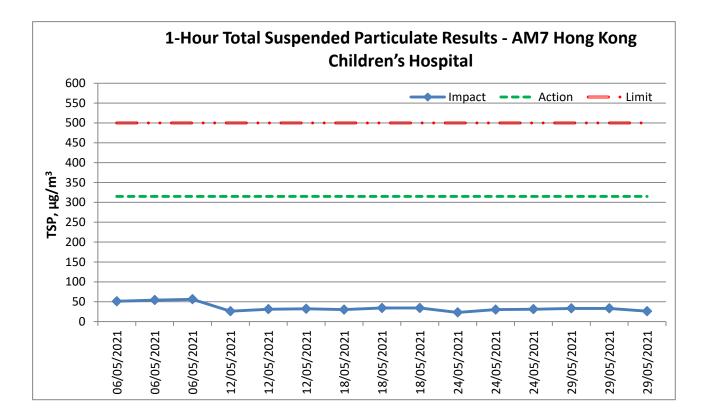
	Date	Measure	mer	nt Period	1-hr TSP concentration, μg/m ³	Weather		
Location:		9:00	-	10:00	46			
AM4(A) -	6/5/2021	10:00	-	11:00	48	Sunny		
		11:00	-	12:00	54			
The Hong Kong		14:30	-	15:30	29			
Society for the	12/5/2021	15:30	-	16:30	32	Sunny		
Blind's Factory		16:30	-	17:30	28			
cum Sheltered		9:00	-	10:00	21			
Workshop	18/5/2021	10:00	-	11:00	25	Sunny		
workshop		11:00	-	12:00	26			
		13:00	-	14:00	23			
	24/5/2021	14:00	-	15:00	27	Cloudy		
		15:00	-	16:00	28			
		9:00	-	10:00	24			
	29/5/2021	10:00	-	11:00	25	Cloudy		
		11:00	-	12:00	30			
	М	aximum			54			
	N	linimum			21			
	Average				31			
	Action Level				326			
	Li	mit Level			500			

		Date		sure erio	ment d	1-hr TSP concentration, $\mu g/m^3$	Weather
Location:			13:00	-	14:00	51	
AM7 -		6/5/2021	14:00	-	15:00	54	Sunny
	Vong		15:00	-	16:00	56	
Hong	Kong		9:45	-	10:45	26	
Children's		12/5/2021	10:45	-	11:45	31	Sunny
Hospital			13:00	-	14:00	32	
			13:00	-	14:00	30	
		18/5/2021	14:00	-	15:00	34	Sunny
			15:00	-	16:00	34	
			9:00	-	10:00	23	
		24/5/2021	10:00	-	11:00	30	Cloudy
			11:00	-	12:00	31	
			13:00	-	14:00	33	
		29/5/2021	14:00	-	15:00	33	Cloudy
			15:00	-	16:00	26	
		М	laximum			56	
		Μ	linimum			23	
		A	Average			35	
		Act	tion Level	_		315	
		Liı	mit Level			500	

#### 1-hour average TSP







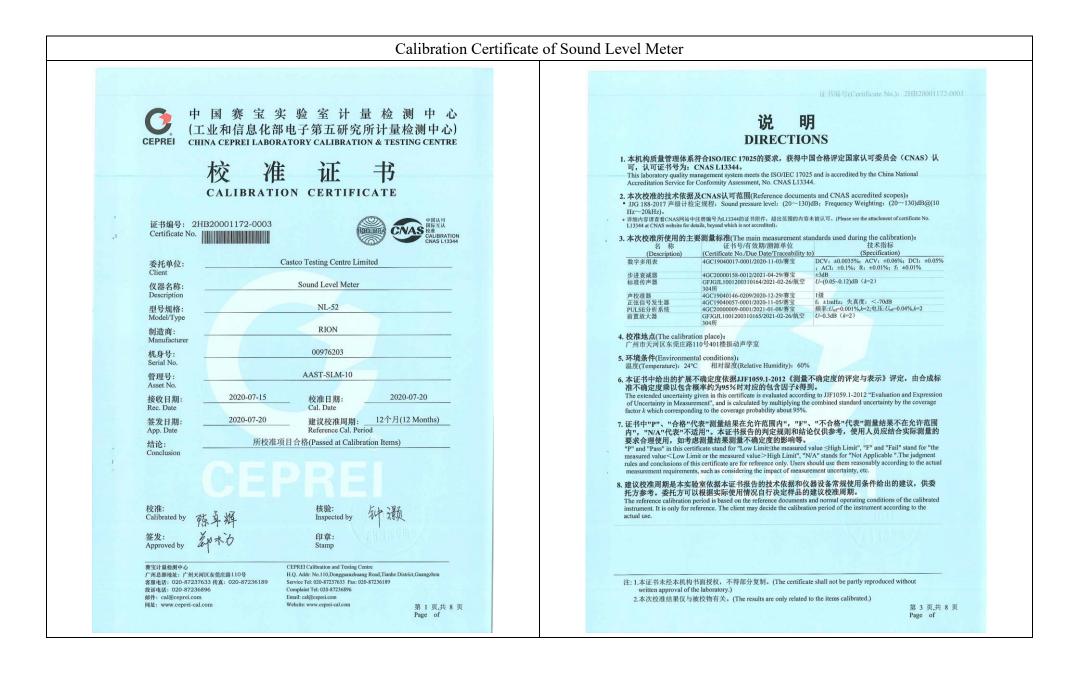
**Appendix I – Event and Action Plan for air quality** 

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

E (		Ac	tion	
Event	ET	IEC	Supervisor / ER	Contractor
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	on the effectiveness of the proposed remedial measures.	<ul> <li>implemented;</li> <li>4. Supervise implementation of remedial measures;</li> <li>5. Conduct meeting with ET and IEC if exceedance continues.</li> </ul>	<ul><li>within three working days of notification;</li><li>4. Implement the agreed proposals.</li></ul>
Limit Level being exceeded by two or more consecutive sampling	<ol> <li>Notify IEC, Supervisor /ER, Contractor and EPD;</li> <li>Repeat measurement to confirm findings;</li> <li>Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance;</li> <li>Increase monitoring frequency to daily;</li> <li>Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep EPD, IEC</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with Supervisor /ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly.</li> </ol>	notification of exceedance in writing; 2. Notify Contractor;	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Discuss with ET and IEC on proper remedial actions;</li> <li>Submit proposal for remedial actions to Supervisor /ER and IEC 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>
	<ul><li>and Supervisor /ER informed of the results;</li><li>7. If exceedance stop, cease additional monitoring.</li></ul>			

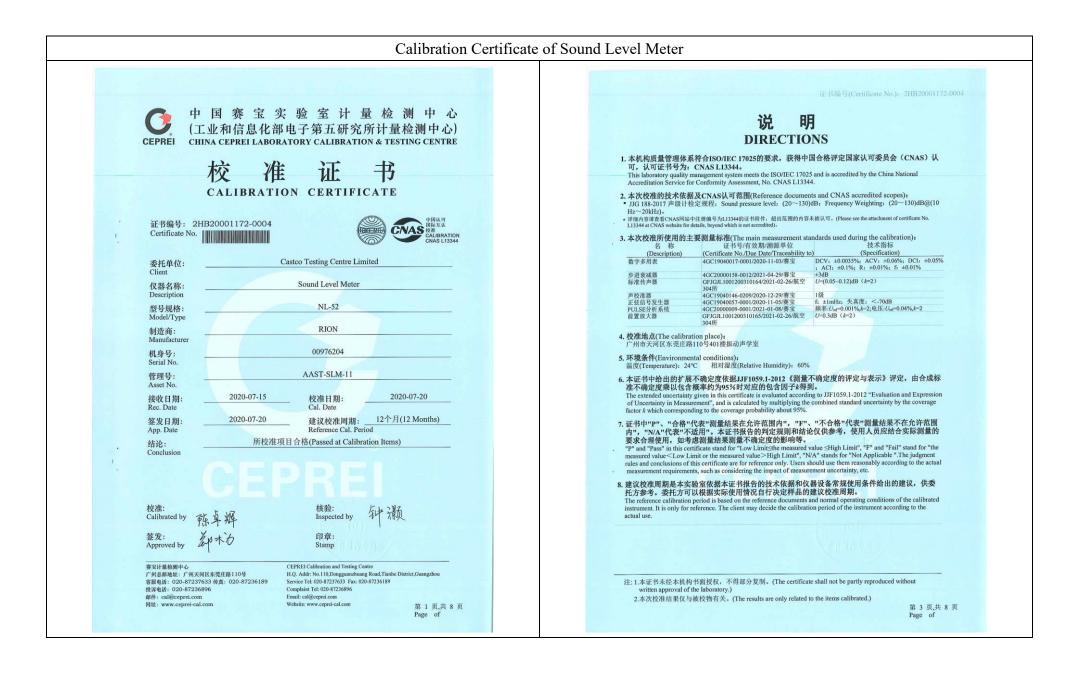
Appendix J – Calibration certificates, catalogue of noise monitoring equipment

Speci	fications	Â	i 🍐					
				Data r			Allows viewing of stored data	n be exced in internal memory for later rea
Applicable	standards	NL-52	NL-42		memory		Start up via file settings previou	an be saved in internal memory, for later rec sly stored on SD card possible
, ibbiiogipie	standards	ANSI S1.4-1983 Type 1	ANSI S1.4-1983 Type 2		orm recording* e format	3	Uncompressed waveform WAV	F file
	•	ANSI S1.4A-1985 Type 1 ANSI S1.43-1997 Type 1	ANSI S1.4A-1985 Type 2 ANSI S1.43-1997 Type 2	Sar	mpling frequenc	y	Select 48 kHz, 24 kHz or 12 kH	
		JIS C 1509-1: 2005 Class 1	■IIS C 1509-1: 2005 Class 2		ta length DC output		Select 24 bit or 16 bit Output DC signals using a frequence	y weighting characteristic selected by processi
			HS (export model for China only)		Output vo	oltage	2.5 V, 25 mV / dB at bar graph of	display full scale ency weighting characteristic selected by
Measurem	nent functions	Simultaneous measurement of weighting and frequency weigh	the following items, with selected time		AC output		processing or by A, C, Z-weight	ing.
Proces:	sing (main ch)	Instantaneous sound pressure	level: Lp		Output vo Comparator		1 V (rms values) at bar graph di Turns on when the open-collect	
		Equivalent continuous sound p Sound exposure level: LE	ressure level: Leg		output*2		(max. applied voltage 24 V, max.	current 60 mA, allowable dissipation 300 mV
		Maximum sound pressure leve		USBE			Allows USB to be connected to a Allows USB to be controlled via c	computer and recognized as a removable di ommunication commands
		Minimum sound pressure level Percentile sound levels: LN (0.1	to 99.9 %, 0.1-increment steps, max. 5 values)		32C communi		Allows for RS-232C communica	tion via use of a dedicated cable
	sing (sub ch) nal processing	Instantaneous sound pressure In addition to main processing	level: Lp items, one of the following can be selected	Тур	continuous out	ous value		
	pressing	for simultaneous processing:		dat	ta Processe Itput interval	ed value	Leq, Lmax, Lmin, Lpeak 100 ms	
		C-weighted equivalent continue C-weighted peak sound level: I		Print o	out		Printing of measurement results	
		Z-weighted peak sound level: L ⊥-time-weighted equivalent contin			r requirement ttery life (23 מ			e or rechargeable batteries) or external power supp Ni-MH secondary battery: 25 h
		Maximum 1-time-weighted equiva	lent continuous sound level: LAImax*2	-	adapter	_	At the maximum * Depends on NC-98C (NC-34 for previous me	the setting
			um level of each 5 second interval: LAtm5 hal processing synchronizes with the frequency weighting	Ext	ternal power v		5 to 7 V (rated voltage: 6 V)	
		of the sub-channel, so when the sub-ch	annel has A-weighting, LAtus can be selected.	Cu	rrent consum nt Temper		Approximately 90 mA (normal o -10 to +50 ℃	peration, rated voltage)
		(Lzpeak) are selectable.	elected, the additional processing $LCeq$ and $LCpeak$	conditi	ions Humidi	ty	10 to 90 % RH (non-condensing IP code: IP54 (except for microp	
Measuring Microphone		10 s, 1, 5, 10, 15, 30 m, 1, 8, 2 UC-59	4 h, and manual (maximum 24 h) UC-52	perform	roof / water-re: mance *4		See precautions regarding wate	rproofing
	Sensitivity level	-27 dB	-33 dB		nsions, weight ied accessori			im(D), approx. 400 g (with batteries) -10 x 1, Windscreen fall prevention rubber x 1
Measurem	nent range	A-weighting: 25 dB to 138 dB C-weighting: 33 dB to 138 dB					Hand strap x 1, LR6 (AA) alkaline	batteries x 4, SD card 512 MB×1 (NX-42EX
		Z-weighting: 38 dB to 138 dB					preinstalled model only)	
		C-weighting peak sound level: Z-weighting peak sound level:		Opti	ons	D	duct name	Product number
Inherent noise	A-weighting C-weighting	17 dB or less 25 dB or less	19 dB or less 27 dB or less			progra	m (Inst.on 512 MB SD card)	NX-42EX
	Z-weighting	30 dB or less	32 dB or less				ram *2 (Inst.on 2 GB SD card) lysis program *2 (Inst.on 512 MB SD card)	NX-42WR NX-42RT
Frequency Frequency	/ range / weighting	20 Hz to 20 kHz A, C, and Z	20 Hz to 8 kHz	FFT a	analysis progr	'am * 2 (	(Inst.on 512 MB SD card)	NX-42FT
Time weig	hting	F (Fast) and S (Slow)		Data r	management s	oftware	e for environmental measurement e for environmental measurement	AS-60 AS-60RT
Level rang Bar grapi	je h display range max	Single range (Linearity range: Max. 110 dB (20 to 130 dB)	113 dB)				octave data management software) e for environmental measurement /el data management software)	AS-60∨M
	of bar graph display ction circuit	Set the upper/ lower limit in 10 Digital processing method	dB increments.		des the vibrat form analysis			CAT-WAVE
Sampling		20.8 µS (Lp, Leq, LE, Lmax, Lmin,	Lpeak : sampling frequency: 48 kHz)		ard 512 MB ard 2 GB			SD-512M SD-2G
Calibratior	1	100 ms (Ln) Measurement Law: electrical calibra	ation performed according to IEC and JIS standards,	AC ac	dapter (100 ∨	to 240	)∨)	NC-98C
Correction	functions	using internally generated signals; a Windscreen correction;	coustic calibration performed with the NC-74.		ry pack phone extens	tion cal	hles	BP-21 EC-04 (from 2 m)
Conection	Tuncuons		C 1509-1 standards when the windscreen is installed.	BNC-	Pin output co	de		CC-24
		Diffuse sound field correction: Correction of frequency chara	cteristics in order to comply with standards	Comp	parator output er	cable		CC-42C DPU-414
Deler		(ANSI S1.4) in diffuse sound fie	əld.		er cable 32C serial ⊥/C	) cablo		CC-42P CC-42R
Delay time	,		easuring a specified time (OFF, 1, 3, 5 or 10 s) pressed or when a user-set trigger is exceeded.	USB (	cable	Cable		-
Back eras	e function		ed to pause measurement, the preceding data are excluded from processing.		d calibrator eather windsc	reen		NC-74 WS-15
Display		Backlit semitransparent color T	FT LCD display WQVGA (400 x 240 dots)	Winds	screen mount	ing ada		WS-15006
		* LCD with touch panel (Capa Numerical display update frequen	citive Touch Panel) cy: 1 state Bar graph update frequency: 100 ms		protection wir d level meter		en	WS-16 ST-80
Store		Data for measurement results an	e stored manually in single address increments.		eather windsc Rion fully quar			ST-81 separately). *3 NX-42WR required (sold separat
22 22	Number of data	Internal memory: max. 1000 se SD Card: depends on the capa		*4 Pro	tection agains	st harm	ful dust and water splashing from	any direction.
EEEAu	to*2	Instantaneous values (Lp mode stored continuously and autom	and processed values (Leg mode) are	Before	use, verify the	at the ru	vaterproofing ubber bottom cover and the battery	
	p sampling cycle	100 ms, 200 ms, 1 s, Leg 1s		To mai	ntain the wate	r and d	iust proof rating, internal packing rep	placement is required every two years (at cos
	eq sampling cycle	10 s, 1, 5, 10, 15, 30 ms, 1, 8, Max. 1000 h (depends on the						150 14001
								T1"R /
Minda		k of Microsoft Corporation.						
		to change without notice.						ISO 14001 RION CO., LTD. ISO 9001 RION CO., LTD.
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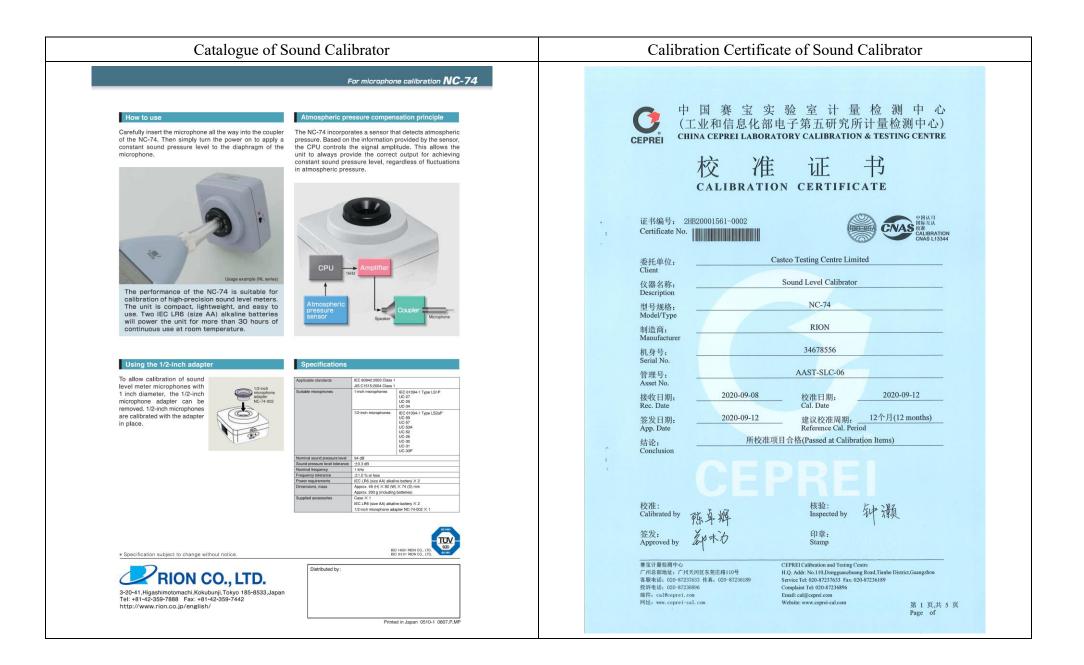
CEPREI		证书编号(Certificate	CEPREI			证书编	号(Certificate No.):	2HB2000117	2-0003		
1 外观与工作正	E常性检查 (Appearance and Function	Check)			4 A计权特性(A-V	Weighting Cha	racteristic)				
无影响证	书中校准结果准确度的因素和缺陷。				频率	实测值	理论值	误差	允许误差	结论	U
There are	e no factor and defect that affect the call	ibration result accuracy of the	certificate.		(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)
			All the one and the	00077	(Hz) 20	(dB) -50.7	(dB) -50.5	(dB) -0.2	(dB) ±2.0	(P/F) P	(dB)
2 指示声级调整 传声器型号	《Indication SPL Calibration》 传声器编号	放大器型号	频率(Frequency)=1 放大器编号		25	-45.0	-44.7	-0.2	+2.0 ~ -1.5	P	0.5 0.5
作户都坐亏 (Microphone Typ		(Preamplifier Typ			31.5	-39.5	-39.4	-0.1	±1.5	Р	0.5
UC-59	12132	NH-25	76320		40	-34.5	-34.6	0.1	±1.0	P	0.5
00-59	12152				50	-30.2	-30.2	0.0	±1.0	Р	0.5
声校准器型号	标准声压级	校准前示值	校准后示值	U	63	-26.1	-26.2	0.1	±1.0	Р	0.5
(Calibrator Type		(Before Calibration)	(After Calibration)	( <i>k</i> =2)	80	-22.4	-22.5	0.1	±1.0	Р	0.5
	(dB)	(dB)	(dB)	(dB)	100	-19.1	-19.1	0.0	±1.0	Р	0.5
4231	94.0	94.0	94.0	0.2	125	-16.1	-16.1	0.0	±1.0	Р	0.5
					160	-13.2	-13.4	0.2	±1.0	Р	0.5
3 级线性 (Level	Linearity)				200	-10.8	-10.9	0.1	±1.0	Р	0.5
3.1 参考级量程		顷率(Frequency): 8000Hz			250	-8.6	-8.6	0.0	±1.0	Р	0.5
		级(Sound Level Indication of S			315 400	-6.6 -4.7	-6.6 -4.8	0.0	±1.0	P	0.4
起始点以	以上间隔10dB点的最大误差(Maximu				500	-4.7	-4.8	0.1	±1.0 ±1.0	P	0.4
し照りまでのの	间隔1dB点的最大误差(Maximum Err		U (k=2) 0.6 d		630	-1.8	-1.9	0.0	±1.0	P	0.4 0.4
LING FOOD	时圈IdB点的取入沃差(Maximum En		U (k=2) 0.6 d		800	-0.8	-0.8	0.0	±1.0	P	0.4
記始占い	人下间隔10dB点的最大误差(Maximu				1000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4
A PHIM P	A T PAPETO DADAMENTALY COLL (COMMINING		<i>U</i> ( <i>k</i> =2) 0.6 d		1250	0.6	0.6	0.0	±1.0	Р	0.6
下限以上5dB的	间隔1dB点的最大误差(Maximum Err	or for each 1dB above Lower	Limit 5dB): -0.2 d	B	1600	0.9	1.0	-0.1	±1.0	Р	0.6
			<i>U</i> ( <i>k</i> =2) 0.6 d	в	2000	1.1	1.2	-0.1	±1.0	Р	0.6
					2500	1.1	1.3	-0.2	±1.0	Р	0.6
3.2 其它级量程		页率(Frequency): 1000Hz			3150	1.0	1.2	-0.2	±1.0	Р	0.6
	1. # 1 Provide the Art of the Art	级(Sound Level Indication of S			4000	0.7	1.0	-0.3	±1.0	Р	0.6
起始点以	人上间隔10dB点的最大误差(Maximur				5000	0.3	0.5	-0.2	±1.5	Р	0.6
			U (k=2) 0.4 d		6300 8000	-0.2 -1.1	-0.1 -1.1	-0.1 0.0	+1.5 ~ -2.0	P	0.6
上限以下5dB单	间隔1dB点的最大误差(Maximum Erro				10000	-1.1	-1.1	0.0	$+1.5 \sim -2.5$ $+2.0 \sim -3.0$	P	0.6 0.6
42.64 ± 11	下间隔10dB点的最大误差(Maximur		U (k=2) 0.4 d		12500	-4.3	-4.3	0.2	$+2.0 \sim -3.0$ $+2.0 \sim -5.0$	P	1.0
起始息以	、下间隔10dB只的取入误左(Maximur		U (k=2) = 0.4 d		16000	-8.5	-6.6	-1.9	+2.5 ~ -16.0	P	1.0
下限以上5dB前	间隔1dB点的最大误差(Maximum Erro				20000	-18.4	-9.3	-9.1	+3.0 ~ -∞	Р	1.0
TROLLOUD	alle reprint 24 of the formation of the		U (k=2) 0.4 di								
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CEPREI						2-0003	<b>СЕРПЕ!</b> 证书编号(Certificate No.): 2HB20001172-0003
5 C计权特	生(C-Weighting Ch	naracteristic)					6 自生噪声 (Autogenous noise)
频率	实测值	理论值	误差	允许误差	结论	U	计权 实测值
(Frequen			(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)	(Weighting) (Actual)
(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)	(dB)
20	-6.6	-6.2	-0.4	±2.0	P	0.5	A 24.0
25	-4.6	-4.4	-0.2	+2.0 ~ -1.5	P P	0.5 0.5	以下空白/No data hereafter
31.5	-3.1	-3.0	-0.1	±1.5 ±1.0	P P	0.5	22.1 TEHLING (mm lighting)
40 50	-1.9 -1.3	-2.0 -1.3	0.1 0.0	±1.0 ±1.0	P	0.5	
50 63	-1.3	-0.8	0.0	±1.0	P	0.5	
80	-0.8	-0.5	0.1	±1.0	P	0.5	
100	-0.2	-0.3	0.1	±1.0	Р	0.5	
125	-0.1	-0.2	0.1	±1.0	Р	0.5	
160	0.0	-0.1	0.1	±1.0	Р	0.5	
200	0.0	0.0	0.0	±1.0	Р	0.5	
250	0.1	0.0	0.1	±1.0	Р	0.5	
315	0.1	0.0	0.1	±1.0	Р	0.4	
400	0.1	0.0	0.1	±1.0	Р	0.4	
500	0.1	0.0	0.1	±1.0	Р	0.4	
630	0.1	0.0	0.1	±1.0	P	0.4	
800	0.1	0.0 0.0	0.1 0.0	±1.0 ±0.7	P P	0.4 0.4	
1000(Re 1250	.) 0.0 -0.1	0.0	-0.1	±0.7 ±1.0	P	0.4	
1230	-0.1	-0.1	-0.1	±1.0	P	0.6	
2000	-0.2	-0.2	-0.1	±1.0	Р	0.6	
2500	-0.5	-0.3	-0.2	±1.0	Р	0.6	
3150	-0.7	-0.5	-0.2	±1.0	Р	0.6	
4000	-1.1	-0.8	-0.3	±1.0	Р	0.6	
5000	-1.5	-1.3	-0.2	±1.5	Р	0.6	
6300	-2.1	-2.0	-0.1	+1.5 ~ -2.0	Р	0.6	
8000	-3.0	-3.0	0.0	+1.5 ~ -2.5	Р	0.6	
10000	-4.2	-4.4	0.2	+2.0 ~ -3.0	Р	0.6	
12500	-6.2	-6.2	0.0	+2.0 ~ -5.0	Р	1.0	
16000	-10.4	-8.5	-1.9	+2.5 ~ -16.0	P	1.0	
20000	-20.4	-11.2	-9.2	+3.0 ~ -∞	Р	1.0	
		数据页(Data she	et) ID: U	071288	第7页, Page of	共 8 页	第 8 页,共 8 页 数据页(Data sheet) ID: U071288 Page of

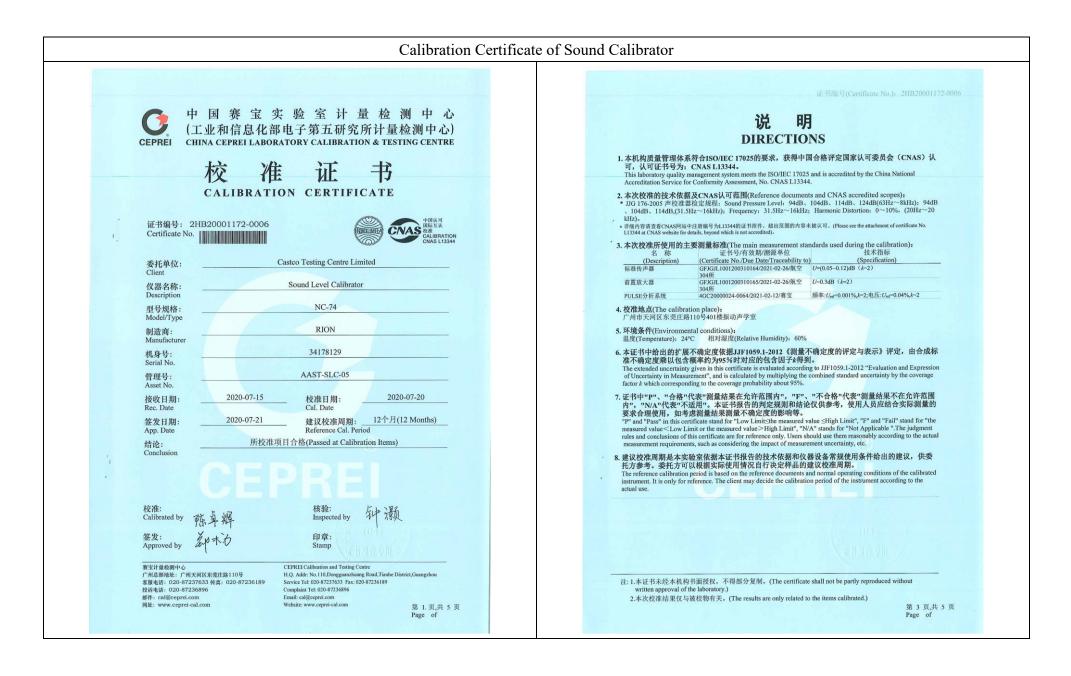


CEPREI	证书编号(Certificate No.):	2HB20001172-0004	CEPREI	证书编号(Certificate No.): 2HB20001172-0004						
1 外观与工作正常性检查	(Appearance and Function Check)		4 A计权特性(A-W	eighting Cha	racteristic)					
无影响证书中校准约	古果准确度的因素和缺陷。		频率	实测值	理论值	误差	允许误差	结论	U	
There are no factor a	nd defect that affect the calibration result accuracy of the certifica	ate.	(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)	
			(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)	
2 指示声级调整 (Indicatio		(Frequency)=1000Hz	20	-50.6	-50.5	-0.1	±2.0	Р	0.5	
传声器型号	传声器编号 放大器型号	放大器编号	25 31.5	-44.9 -39.8	-44.7 -39.4	-0.2	+2.0 ~ -1.5	P	0.5	
(Microphone Type)		(Preamplifier SN.)	40	-39.8	-39.4 -34.6	-0.4 0.0	±1.5 ±1.0	P P	0.5	
UC-59	12133 NH-25	76321	50	-34.0	-34.0	-0.2	±1.0 ±1.0	P	0.5	
声校准器型号	标准声压级 校准前示值 校洲	佳后示値 U	63	-26.3	-26.2	-0.2	±1.0	P	0.5	
戶校准畚望亏 (Calibrator Type)		Calibration) (k=2)	80	-22.4	-22.5	0.1	±1.0	P	0.5	
(Canorator Type)	(dB) (dB)	(dB) (dB)	100	-19.1	-19.1	0.0	±1.0	P	0.5	
4231	94.0 93.9	94.0 0.2	125	-16.2	-16.1	-0.1	±1.0	Р	0.5	
1201			160	-13.2	-13.4	0.2	±1.0	Р	0.5	
3 级线性 (Level Linearity)			200	-10.8	-10.9	0.1	±1.0	Р	0.5	
3.1 参考级量程 (Reference	e Range) 频率(Frequency): 8000Hz		250	-8.7	-8.6	-0.1	±1.0	Р	0.5	
	起始点指示声级(Sound Level Indication of Start Po	eint): 90.0 dB	315	-6,7	-6.6	-0.1	±1.0	Р	0.4	
起始点以上间隔10	dB点的最大误差(Maximum Error for each 10dB above Start Po	oint): -0.1 dB	400	-4.8	-4.8	0.0	±1.0	Р	0.4	
	U ( $k=$	2) 0.6 dB	500	-3.2	-3.2	0.0	±1.0	Р	0.4	
上限以下5dB间隔1dB点	的最大误差(Maximum Error for each 1dB below Upper Limit 5		630	-1.9	-1.9	0.0	±1.0	Р	0.4	
	U (k=		800	-0.8	-0.8	0.0	±1.0	Р	0.4	
起始点以下间隔10	dB点的最大误差(Maximum Error for each 10dB below Start Po		1000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4	
	U (k=		1250 1600	0.6 1.0	0.6	0.0	±1.0	P	0.6	
下限以上5dB间隔1dB点	的最大误差(Maximum Error for each 1dB above Lower Limit 50		2000	1.0	1.0	0.0	±1.0 ±1.0	P	0.6	
	U (k=	2) 0.6 dB	2500	1.2	1.2	0.0	±1.0 ±1.0	P	0.6 0.6	
3.2 其它级量程 (Other Rar	ge) 频率(Frequency): 1000Hz		3150	1.2	1.5	0.0	±1.0	p	0.6	
5.2 共已级里柱 (Other Rar	ge) 频率(Frequency): 1000HZ 起始点指示声级(Sound Level Indication of Start Po	int): 90.0 dB	4000	1.0	1.0	0.0	±1.0	P	0.6	
起始占以上问题10.	超始点指示产级(Sound Lever Indication of Start Po B点的最大误差(Maximum Error for each 10dB above Start Po		5000	0.6	0.5	0.1	±1.5	Р	0.6	
AS ALVA SALLINING TO			6300	0.0	-0.1	0.1	+1.5 ~ -2.0	Р	0.6	
上限以下5dB间隔1dB点	的最大误差(Maximum Error for each 1dB below Upper Limit 5c		8000	-1.0	-1.1	0.1	+1.5 ~ -2.5	Р	0.6	
	U (k=2		10000	-2.4	-2.5	0.1	+2.0 ~ -3.0	Р	0.6	
起始点以下间隔100	B点的最大误差(Maximum Error for each 10dB below Start Poi	int): -0.1 dB	12500	-4.4	-4.3	-0.1	+2.0 ~ -5.0	Р	1.0	
	U ( $k=2$	2) 0.4 dB	16000	-7.9	-6.6	-1.3	+2.5 ~ -16.0	Р	1.0	
下限以上5dB间隔1dB点	的最大误差(Maximum Error for each 1dB above Lower Limit 5c	iB): -0.1 dB	20000	-14.2	-9.3	-4.9	+3.0 ~ -∞	Р	1.0	
	U (k=2	2) 0.4 dB								
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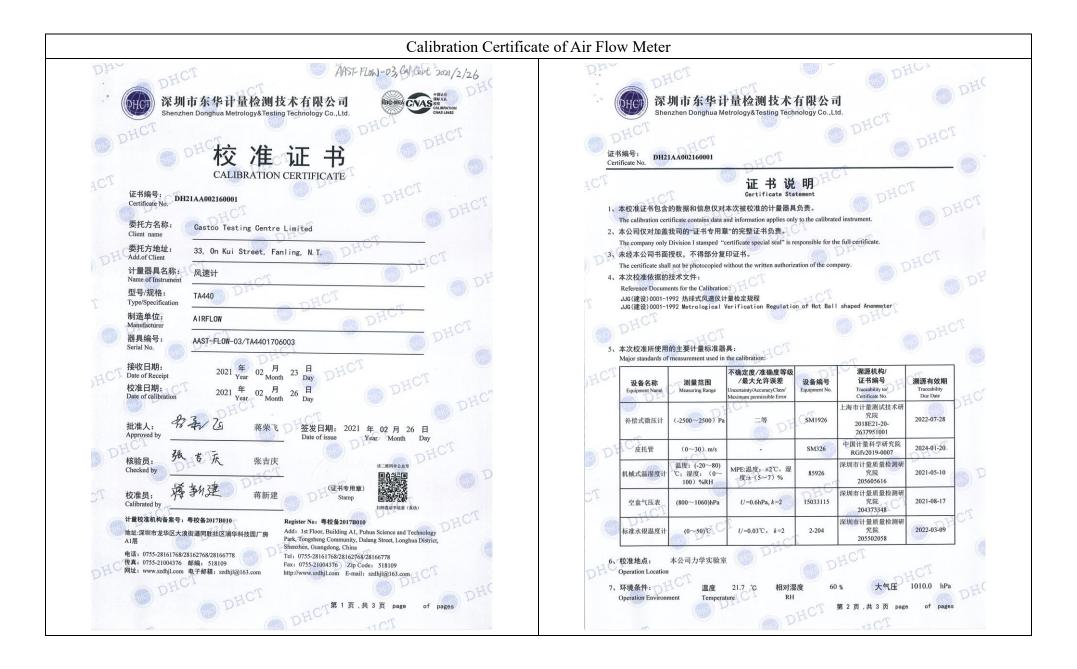
CEPREI			证书编号	(Certificate No.):	2HB2000117	2-0004	<b>СЕРПЕЙ</b> 证书编号(Certificate No.): 2HB20001172-0004
5 C计权特性(C-	Weighting Cha						6 自生噪声 (Autogenous noise)
频率	实测值	理论值	误差	允许误差	结论	U	计权 实测值
(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(k=2)	(Weighting) (Actual)
(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB) 0.5	(dB) A 23.8
20 25	-6.4 -4.5	-6.2 -4.4	-0.2 -0.1	±2.0 +2.0 ~ -1.5	P	0.5	A 23.8
31.5	-4.5	-4.4 -3.0	-0.1	+2.0 ~ -1.5 ±1.5	P	0.5	以下空白/No data hereafter
40	-2.1	-2.0	-0.1	±1.0	Р	0.5	
50	-1.3	-1.3	0.0	±1.0	P	0.5	
63	-0.9	-0.8	-0.1	±1.0	Р	0.5	
80	-0.5	-0.5	0.0	±1.0	Р	0.5	
100	-0.3	-0.3	0.0	±1.0	Р	0.5	
125	-0.1	-0.2	0.1	±1.0	Р	0.5	
160	-0.1	-0.1	0.0	±1.0	Р	0.5	
200	0.0	0.0	0.0	±1.0	Р	0.5	
250	0.0	0.0	0.0	±1.0	Р	0.5	
315	0.0	0.0	0.0	±1.0	Р	0.4	
400	0.0	0.0	0.0	±1.0	Р	0.4	
500	0.0	0.0	0.0	±1.0	P P	0.4 0.4	
630 800	0.0 0.0	0.0 0.0	0.0 0.0	±1.0 ±1.0	P	0.4	
1000(Ref.)	0.0	0.0	0.0	±0.7	р	0.4	
1250	0.0	0.0	0.0	±1.0	Р	0.6	
1600	-0.1	-0.1	0.0	±1.0	Р	0.6	
2000	-0.1	-0.2	0.1	±1.0	Р	0.6	
2500	-0.3	-0.3	0.0	±1.0	Р	0.6	
3150	-0.5	-0.5	0.0	±1.0	Р	0.6	
4000	-0.8	-0.8	0.0	±1.0	Р	0.6	
5000	-1.2	-1.3	0.1	±1.5	Р	0.6	
6300	-1.9	-2.0	0.1	+1.5 ~ -2.0	Р	0.6	
8000	-2.9	-3.0	0.1	+1.5 ~ -2.5	P	0.6	
10000	-4.3	-4.4	0.1	$+2.0 \sim -3.0$	P P	0.6 1.0	
12500 16000	-6.4 -9.9	-6.2 -8.5	-0.2 -1.4	$+2.0 \sim -5.0$ $+2.5 \sim -16.0$	P P	1.0	
20000	-16.2	-8.5	-1.4	$+2.3 \sim -10.0$ +3.0 ~ -00	P	1.0	
2000					1		
		数据页(Data she	et) ID: U0	71288	第7页, Page of	共 8 页	第 8 页,共 8 页 数据页(Data sheet) ID: U071288 Page of

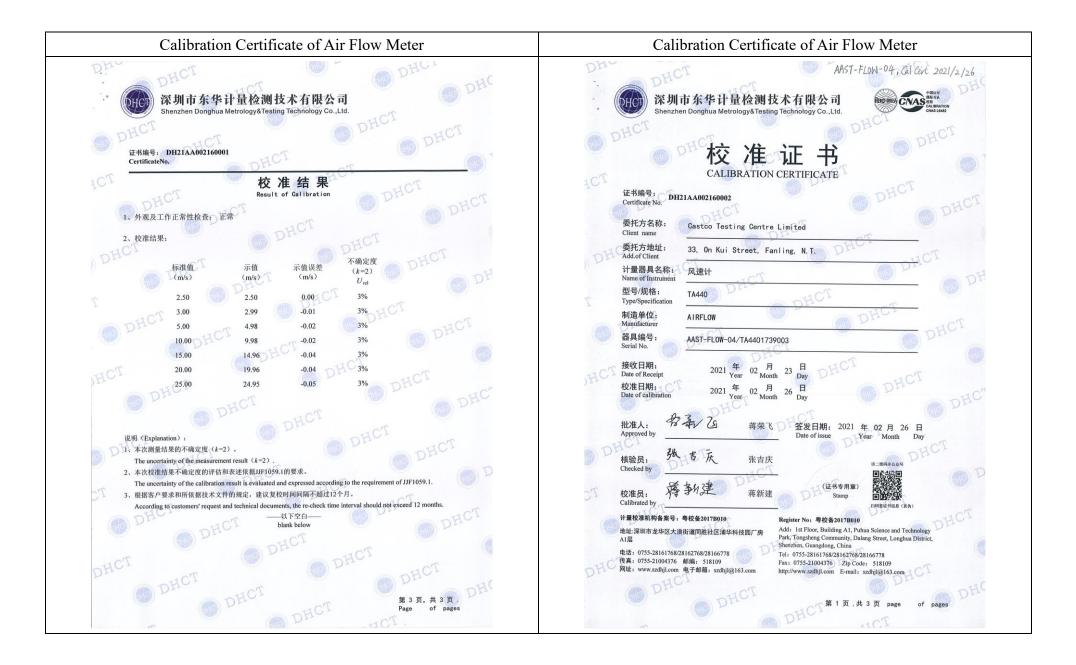


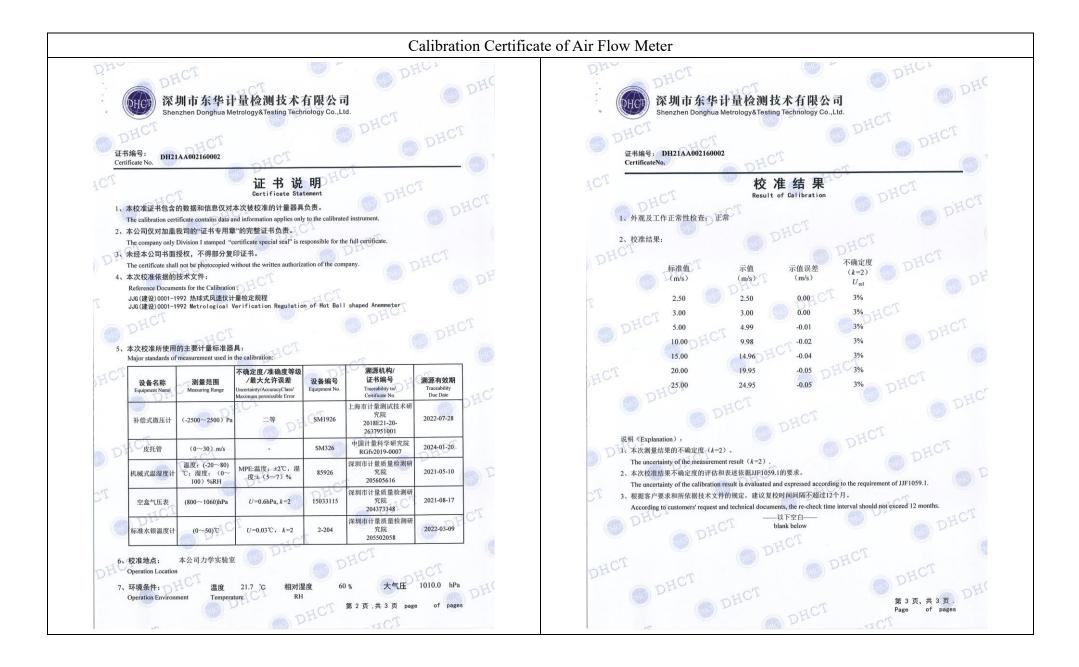
证书编程(Certificate No.): 2HB20001561-0002		G					
说明		CEPREI		证书	编号(Certificate	No.): 2HB200	001561-0002
DIRECTIONS				ce and Function Check)			
			中校准结果准确度				
<ol> <li>本机构质量管理体系符合ISO/IEC 17025:2017标准的要求,获得中国合格评定国家认可委员会( CNAS)认可,认可证书号为: CNAS L13344。</li> <li>This laboratory quality management system meets the ISO/IEC 17025:2017 and is accredited by the China National Accreditation Service for Conformity Assessment, No. CNAS L13344.</li> </ol>				hat affect the calibration res	ult accuracy of the	e certificate.	
2. 本次按准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes):		2 声压级 (Sound P	ressure Level)				
<ol> <li>HOVACHEUDZYFINKERJACCHARGE Sound Pressure Level: 94dB、104dB、114dB、124dB(63Hz~8kHz); 94dB</li> <li>IJG176-2005 卢校定播器检定规程: Sound Pressure Level: 94dB、104dB、114dB、124dB(63Hz~8kHz); 94dB</li> <li>(104dB、114dB,(31.5Hz~16kHz); Frequency; 31.5Hz~16kHz; Harmonic Distortion: 0~10%, (20Hz~20kHz);</li> </ol>		规定声压级	測量声压级	声压级差的绝对值	允许范围	结论	U
KITZ/。 * 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。(Please see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accredited).		(Prescribed SPL)		(Absolute value of SPL)	(Limit)	(Pass/Fail)	(k=2)
3 太次校准所使用的主要测量标准(The main measurement standards used during the calibration):		(dB)	(dB)	(dB)	(dB)	P	(dB) 0.10
名 称 (近半号/有效期)/溯源单位 技术指标 湾軍電信期 (Description) (Certificate No-Due DateTracability to) PULSE分析系统 LSwn2020-02491/2021-04-26/中国计量院 <i>携率:Lq=</i> 0.001% <i>k</i> =2-21年に <i>U</i> 素=7.001% <i>k</i> =2-21年 <i>U</i> 素=7.001% <i>k</i> =2-21 <i>U</i> 素=7.001% <i>k</i> =2-21 <i>U</i> <i>U</i> <i>U</i> <i>U</i> <i>U</i> <i>U</i> <i>U</i> <i>U</i> <i>U</i> <i>U</i>		94	94.05	0.05	≤0.40	Р	0.10
标准传声器 GF1GIL1001200310164/2021-02-26/航空 U=(0.05-0.12)dB(k=2) 20Hz~20kHz 304所 前置放大器 GF1GIL1001200310165/2021-02-26/航空 U=0.3dB(k=2) (10~20000) Hz		3 频率 (Frequency	. /				
304所 4. 校准地点(The calibration place):		规定频率	测量频率	频率误差的绝对值	允许范围	结论	Urel
4. 仅值28.5(Inc calibration place); 广州市天河区东莞庄路110号401楼振动声学室		(Prescribed Fre.)	(Measured Fre.)	(Absolute value of Fre.)	(Limit)	(Pass/Fail)	( <i>k</i> =2)
5. 环境条件(Environmental conditions):		(Hz)	(Hz)	(%)	(%)		(%)
溫度(Temperature): 24℃ 相对湿度(Relative Humidity): 60%		1000	1003.7	0.37	≤1.00	Р	0.10
6. 本证书中给出的扩展不确定度依据JFI 1059.1-2012《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%.		4 总失真 (Distortio	on)				
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"。本证书报告的判定规则和结论仅供参考,使用人员应结合实际测量的		规定声压级	規定頻率	总失真	允许范围	结论	Urel
内","N/A"代表"不适用"。本证书报告的判定规则和结论仅供参考,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。		(Prescribed SPL)	(Measured Fre.)	(Distortion)	(Limit)	(Pass/Fail)	( <i>k</i> =2)
"P" and "Pass" in this certificate stand for "Low Limits" (The measured value ≤High Limit", "F" and "Fail" stand for "the measured value <low limit="" measured="" or="" the="" value="">High Limit", "N/A" stands for "Not Applicable ". The judgment</low>		(dB)	(Hz)	(%)	(%)		(%)
rules and 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.	p	94	1000	0.96	≤3.00	(R) P	5.0
<ol> <li>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建议校准周期。</li> <li>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.</li> </ol>	•	以下空白/No data her	eafter	EP	RE		
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.)				数据页(Data sheet) 1	D: U013393		第 5 页,共 5 页 Page of



	C							SPECIFICAT	ONS				
_	CEPREI		证书	编号(Certificate	e No.): 2HB20	001172-0006		THERMAL AN MODELS TA41	EMOMETERS 0, TA430 AND TA440				
	无影响证书中	中校准结果准确度	ce and Function Check) 的因素和缺陷。 hat affect the calibration res	ult accuracy of the	e certificate.								
								Velocity Range (TA410) Range (TA430, TA4-	0 to 20 m/s (0 to 4,000 ft/min) 0 to 30 m/s (0 to 6,000 ft/min)	<b>Time Constant (T</b> User selectable	A430, TA440	0)	
	2 声压级 (Sound Pr	ressure Level)						Accuracy (TA410) ¹⁶⁷	±5% of reading or ±0.025 m/s (±5 ft/min), whichever is greater 440) ¹⁶² ±3% of reading or ±0.015 m/s	<b>External Meter Di</b> 8.4 cm x 17.8 cm x 4		x 7.0 in. x 1.8 in	L.)
	规定声压级	测量声压级	声压级差的绝对值	允许范围	结论	U		Resolution	(±3 ft/min), whichever is greater 0.01 m/s (1 ft/min)	Meter Weight wit 0.27 kg (0.6 lbs.)	h Batteries		
			(Absolute value of SPL)	(Limit)	(Pass/Fail)	(k=2)		Duct Size (TA430, Dimensions	TA440) 1 to 635 cm in increments of	Meter Probe Dime			
	(dB) 94	(dB) 94.38	(dB) 0.38	(dB) ≤0.40	Р	(dB) 0.10		Dirichiolog	1 to 635 cm in increments of 0.1 cm (1 to 250 inches in increments of 0.1 in.)	Probe Length Probe Diameter of 1	<b>ip</b> 7.0 m	i cm (40 in.) Im (0.28 in.)	
								Volumetric Flow F Range	ate (TA430, TA440) Actual range is a function of velocity, and duct size	Probe Diameter of F Articulating Prob Articulating Section	e Dimension	mm (0.51 in.) I <b>s</b> :m (7.8 in.)	
	3 頻率 (Frequency)							<b>Temperature</b> Range (TA410, TA43		Length Diameter of Articulating Knuckle	9.5 m	ım (0.38 in.)	
	规定频率	測量频率	频率误差的绝对值	允许范围	结论	Urel		Range (TA440) Accuracy ³ Resolution	-10 to 60°C (14 to 140°F) ±0.3°C (±0.5°F) 0.1°C (0.1°F)	Power Requireme Four AA-size batter	ents	ater	
	(Prescribed Fre.)	(Measured Fre.)	(Absolute value of Fre.)	(Limit)	(Pass/Fail)	( <i>k</i> =2)				Tour AA Size butter	ies of he dduj		
	(Hz)	(Hz)	(%)	(%)		(%)		Relative Humidity Range	5 to 95% RH	Velocity range	TA410	TA430, TA430-A	TA440, TA440-A
	1000	1002.0	0.20	≤1.00	Р	0.10		Accuracy ⁴ Resolution	±3% RH 0.1% RH	Velocity range 0 to 20.00 m/s (0 to 4000 ft/min) Velocity range	(+)		
	·								ture (TA440 only)	0 to 30.00 m/s (0 to 6000 ft/min)		+	+
	4 总失真 (Distortion	1)						Range Resolution	5 to 50°C (40 to 140°F) 0.1°C (0.1°F)	Temperature	+	+	+
	规定声压级	规定频率	总失真	允许范围	结论	Urel		Dew Point (TA440		Flow Humidity, wet bulb,		+	+
	(Prescribed SPL)		(Distortion)	(Limit)	(Pass/Fail)	(k=2)		Range Resolution	-15 to 49°C (5 to 120°F) 0.1°C (0.1°F)	dew point		Straight or -A	+ Straight or -/
	(dB)	(Hz)	(%)	(%)	(	(%)		Instrument Temp		Probe Variable time	Straight	articulated	articulated
	94	1000	2.48	≤3.00	D P	5.0		Operating (Electroni	cs) 5 to 45°C (40 to 113°F)	constant Manual		+	
							_	Model TA410, TA43 Operating (Probe)		data logging Auto save			
	下空白/No data herea	fter						Model TA440 Operating (Probe)	-10 to 60°C (14 to 140°F)	data logging		+	-
								Storage	-20 to 60°C (-4 to 140°F)	Statistics		-	
								Data Storage Capa Range	bilities (TA430, TA440) 12,700+ samples and 100 test IDs	Review data LogDat2			1.5
								Contraction and a second		downloading software		+	+
								Logging Interval ( 1 second to 1 hour	1A430, TA440)	Free Certificate of Calibration	+	+	+
								Specifications subject to char	ge without notice.	¹ Temperature compensated	over an air tempera	ature range of 5 to 65	°C (40 to 150°F).
								TSI and the TSI logo are regis the Airflow logo and LogDat2	rered trademarks, and Airflow. are trademarks of TSI Incorporated.	² The accuracy statement be for the Model TA4LO, and 3 Models TA430 and TA440. ³ Accuracy with instrument	gins at 30 ft/min th 0 ft/min through 6, case at 25% (77%).	rough 4000 ft/min (i .000 ft/min (0.15 m/s .add uncertainty of 0	0.15 m/s through 20 i through 30 m/s) for
_	ж. (1) (1)						_		<b>RFLOW</b> [*]	for change in instrument to ⁴ Accuracy with probe at 25 change in probe temperatu	°C (77ºF). Add uncer re. Includes 1% hys	tainty of 0.2% RH/*C teresis	2 (0.1% RH/°F) for
		ġ	收据页(Data sheet) ID:	U013393		5 页,共 5 页 ge of			TSI Instruments Ltd. /w.airflowinstruments.co.uk for more informat 49 4 459200 Germany Tel: +49 241 5230				







Appendix K – Noise monitoring results and graphical presentation

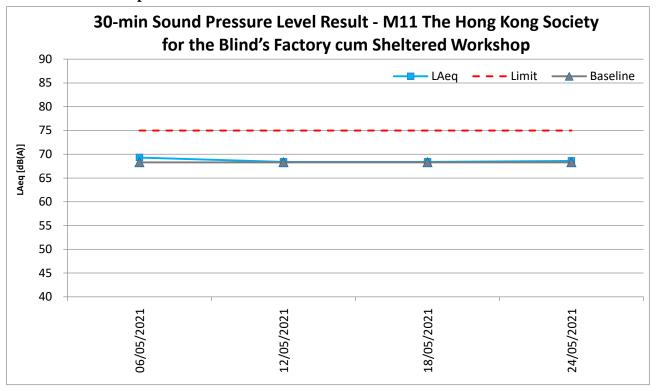
	Temp	Weather	Measured Noise Level at M11, dB(A)									
	(°C)		r	Гiı	ne	Baseline	$L_{Aeq}$	L _{A10}	L _{A90}	Limit		
06/05/2021	28.0	Sunny	10:08	-	10:38	68.3	69.3	71.9	64.2	75		
12/05/2021	31.1	Sunny	14:35	-	15:05	68.3	68.4	71.5	61.9	75		
18/05/2021	33.8	Sunny	10:40	-	11:10	68.3	68.4	69.0	67.6	75		
24/05/2021	29.6	Cloudy	14:13	-	14:43	68.3	68.6	71.2	63.9	75		
					Maximum		69.3					
					Minimum		68.4					
					Average		68.7					

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

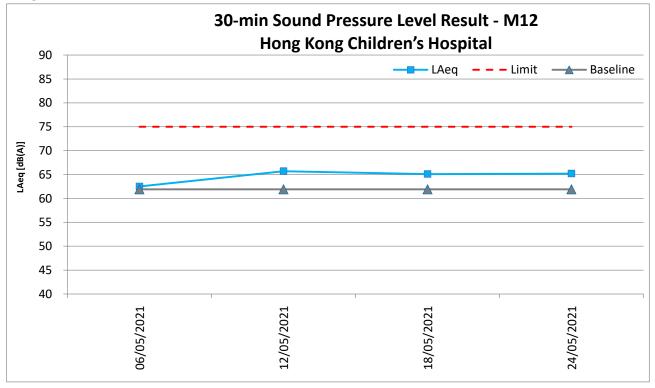
## M12 - Hong Kong Children's Hospital

	Temp	XX7 (1			Timit					
Date	(°C)	Weather	]	Fir	ne	Baseline	$L_{Aeq}$	L _{A10}	L _{A90}	Limit
06/05/2021	28.0	Sunny	13:10	-	13:40	61.9	62.5	63.9	60.8	75
12/05/2021	31.1	Sunny	10:40	-	11:10	61.9	65.7	67.8	62.6	75
18/05/2021	33.8	Sunny	14:03	-	14:33	61.9	65.1	67.2	62.3	75
24/05/2021	29.6	Cloudy	11:09	-	11:39	61.9	65.2	67.2	61.7	75
					Maximum		65.7			
					Minimum		62.5			
					Average		64.8			

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



 $L_{Aeq,\,30\text{-}min}$  graphical results of M12 - Hong Kong Children's Hospital



# Appendix L – Event and Action Plan for noise

E-ror4		Act	tion	
Event	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded	<ol> <li>Notify Supervisor / ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, Supervisor / ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> <li>(The above actions should be taken within 2 working days after the exceedance is</li> </ol>	<ol> <li>Review the investigation results submitted by the ET;</li> <li>Review the proposed remedial measures submitted by the Contractor and advise the ER accordingly;</li> <li>Advise the Supervisor / ER on the proposed remedial measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ol>	3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;	<ol> <li>Submit noise mitigation proposal to IEC and Supervisor / ER;</li> <li>Implement noise mitigation proposals.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ol>
Limit Level being exceeded	<ol> <li>identified.)</li> <li>Inform IEC, Supervisor /ER, Contractor and EPD;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Identify source and investigate the cause of exceedance;</li> <li>Carry out analysis of Contract's working procedure;</li> <li>Discuss remedial measures required with the IEC, Contractor and Supervisor /ER;</li> <li>Assess effectiveness of</li> </ol>	<ol> <li>Discuss the potential remedial actions with Supervisor /ER, ET and Contractor;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures;</li> <li>If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification;</li> <li>Implement the agreed proposal;</li> <li>Submit further proposal if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> <li>(The above actions should be</li> </ol>

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

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

Event		Act	tion	
Event	ET	IEC	Supervisor / ER	Contractor
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	<ol> <li>Check report.</li> <li>Recommend remedial design if necessary.</li> </ol>	<ol> <li>Undertake remedial design if necessary.</li> </ol>	
Non-conformity on	1. Identify Source.	1. Check report.	1. Notify Contractor.	1. Amend working methods.
one occasion	2. Inform IEC and Supervisor /ER.	2. Check Contractor's working method.	2. Ensure remedial measures are properly implemented.	2. Rectify damage and undertake any necessary
	3. Discuss remedial actions with IEC, Supervisor /ER and Contractor.	3. Discuss with ET and Contractor on possible remedial measures.		replacement.
	<ol> <li>Monitor remedial actions until rectification has been completed.</li> </ol>			
Repeated	1. Identify Source.	1. Check monitoring report.	1. Notify Contractor.	1. Amend working methods.
Non-conformity	2. Inform IEC and	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and
5	Supervisor /ER.	method.	are properly implemented.	undertake any necessary
	3. Increase monitoring frequency.	3. Discuss with ET and Contractor on possible		replacement.
	4. Discuss remedial actions with IEC, Supervisor /ER and Contractor.	remedial measures.		
	5. Monitor remedial actions until rectification has been completed.	<ul><li>remedial measures.</li><li>5. Supervise implementation of remedial measures.</li></ul>		
	6. If non-conformity stops, cease additional monitoring.			

**Appendix N – Waste Flow Table** 



#### Appendix F - Monthly Summary Waste Flow Table

Name of Department : CEDD

Contract No.: ED/2018/01

	Ac	tual Quantitie	s of Inert C&D	Materials Gener	rated Monthl	у	Ac	tual Quantities of	C&D Wastes	Generated Mon	hly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³ )
Jan	9.107	0.177		7.885	1.045						0.091
Feb	5.637	0.127	1.660	2.261	1.589						0.106
Mar	4.110		2.580		1.530	0.670					0.101
Apr	4.320		1.350		2.970						0.120
May	12.813		1.225	9.693	1.895						0.138
Jun											
Sub-total	35.987	0.304	6.815	19.839	9.029	0.670					0.556
July											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	35.987	0.304	6.815	19.839	9.029	0.670					0.556

#### Monthly Summary Waste Flow Table for May 2021

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse	
(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³ )	
195.01	2.103	10.2	140	19.81	25	200	0.8			3.4	

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

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

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

(4) 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)

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

Appendix O – Environmental Mitigation Implementation Schedule (EMIS)

EIA for KTD Development	EIA for KTD – Roads D3A	Air Quality Measures Environmental Protection Measures / Mitigation Measures	Status
Ref.	& D4A Ref.		
\$3.2		8 times daily watering of the work site with active dust emitting	^
		activities.	
\$3.2	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	^
		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	^
		the road between the washing facilities and the exit point should	
		be paved with concrete, bituminous materials or hardcores.	
		- Every main haul road should be scaled with concrete and kept	^
		clear of dusty materials or sprayed with water so as to	
		maintain the entire road surface wet.	
		- Every stock of more than 20 bags of cement should be covered	^
		entirely by impervious sheeting placed in an area sheltered on	
		the top and the three sides.	
		- Every vehicle should be washed to remove any dusty materials	^
		from its body and wheels before leaving the construction sites.	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
S3.3		Use of quiet PME, movable barriers for Asphalt Paver, Breaker,	^
		Excavator and Hand-held breaker and full enclosure for Air	
		Compressor, Bar Bender, Concrete Pump, Generator and Water	
		Pump.	
S3.3		Good Site Practice:	
S3.3		- Only well-maintained plant should be operated on-site and	^
		plant should be serviced regularly during the construction	
		program.	
		- Silencers or mufflers on construction equipment should be	^
		utilized and should be properly maintained during the	
		construction program.	
		- Mobile plant, if any, should be sited as far away from NSRs as	^
		possible.	
		- Machines and plant (such as trucks) that may be in intermittent	^
		use should be shut down between works periods or should be	
		throttled down to a minimum.	
		- Plant known to emit noise strongly in one direction should,	^
		wherever possible, be orientated so that the noise is directed	
		away from the nearby NSRs.	
		- 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	n Schedule for <b>V</b>	Water Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
S3.4		<u>Construction Runoff</u> 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.	^
S3.4		- adequate maintenance of drainage systems to prevent flooding and overflow.	^

EIA for KTD Development Ref.	EIA for KTDEnvironmental Protection Measures / Mitigation Measures- Roads D3A& D4A Ref.					
	S5.8	-	Surface run-off from construction sites should be discharged	^		
			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			

Implementatio	n Schedule for <b>V</b>	Water Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		sewerage system.	
	S5.8	- Good site practices should be adopted to remove rubbish and	^
		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	^
		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.	
\$3.4	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.	
\$3.4		Sediment tanks of sufficient capacity, constructed from pre-formed	^
		individual cells of approximately 6 to 8 $m^3$ 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	

Implementatio	on Schedule for V	Water Quality Measures	
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 ³ 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		Drainage	^
		It is recommended that on-site drainage system should be installed	
		prior to the commencement of other construction activities.	
		Sediment traps should be installed in order to minimise the sediment	
		loading of the effluent prior to discharge into foul sewers. There	
		should be no direct discharge of effluent from the site into the sea.	
S3.4		All temporary and permanent drainage pipes and culverts provided	^
53.4		All temporary and permanent drainage pipes and culverts provided	^

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	A			
		to facilitate runoff discharge should be adequately designed for the			
		controlled release of storm flows. All sediment control measures			
		should be regularly inspected and maintained to ensure proper and			
		efficient operation at all times and particularly following rain			
		storms. The temporarily diverted drainage should be reinstated to its			
		original condition when the construction work has finished or the			
		temporary diversion is no longer required.			
S3.4		All fuel tanks and storage areas should be provided with locks and	^		
		be located on sealed areas, within bunds of a capacity equal to 110%			
		of the storage capacity of the largest tank, to prevent spilled fuel oils			
		from reaching the coastal waters of the Victoria Harbour WCZ.			
\$3.4	S5.8	Sewage Effluent	^		
		Construction work force sewage discharges on site are expected to			
		be connected to the existing trunk sewer or sewage treatment			
		facilities. The construction sewage may need to be handled by			
		portable chemical toilets prior to the commission of the on-site			
		sewer system. Appropriate numbers of portable toilets should be			
		provided by a licensed contractor to serve the large number of			
		construction workers over the construction site. The Contractor			
		should also be responsible for waste disposal and maintenance			
		practices.			
		Notices should be posted at conspicuous locations to remind the			
		workers not to discharge any sewage or wastewater into the			
		surrounding environment. Regular environmental audit of the			
		construction site will provide an effective control of any			
		malpractices and can encourage continual improvement of			
		environmental performance on site. It is anticipated that sewage			
		generation during the construction phase of the project would not			
		cause water pollution problem after undertaking all required			
		measures.			
\$3.4		Stormwater Discharges	^		
		Minimum distances of 100 m should be maintained between the			
		existing or planned stormwater discharges and the existing or			
		planned seawater intakes			
S3.4		Debris and Litter	^		
<i>ы</i> .т		In order to maintain water quality in acceptable conditions with			
		regard to aesthetic quality, contractors should be required, under			
		conditions of contract, to ensure that site management is optimised			

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	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	

Implementation Schedule for Water Quality Measures				
EIA for KTDEIA for KTDDevelopment- Roads D3ARef.& D4A Ref.		Environmental Protection Measures / Mitigation Measures	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	^*	
		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	^*	
		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:				
\$3.5		<ul> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li> </ul>	^			
	S6.7	<ul> <li>Prepare a Waste Management Plan, which becomes a part of the Environmental Management Plan, in accordance with the requirements stipulated in ETWB TC(W) No. 19/2005, approved by the Engineer/Supervising Officer of the Project based on current practices on construction sites.</li> </ul>	^			
S3.5	S6.7	- Training of site personnel in proper waste management and chemical waste handling procedures.	٨			

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	S6.7	- Provision of sufficient waste disposal points and regular	^		
6 <b>2</b> 5		collection for disposal.	^		
\$3.5	S6.7	- Appropriate measures to minimise windblown litter and dust	X		
		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.			
\$3.5		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:			
\$3.5		- Where it is unavoidable to have transient stockpiles of C&D	^		
55.5		material within the Project work site pending collection for			
		material within the ridget work site pending conection for			

EIA for KTDEIA for KTDEnvironmental Protection Measures / Mitigation MeasuresDevelopment- Roads D3ARef.& D4A Ref.			
		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.	
\$3.5		- The load of dusty materials carried by vehicle leaving a	^
		construction site should be covered entirely by clean	
		impervious sheeting to ensure dust materials do not leak from	
		the vehicle.	
\$3.5		- 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.	
\$3.5		- 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	^
		amount of waste generated and avoid unnecessary generation	

EIA for KTDEIA for KTDEnvironmental Protection Measures / MitigatioDevelopment- Roads D3ARef.& D4A Ref.		- Roads D3A	
		of waste.	
S3.5		Chemical Waste	^
		After use, chemical wastes (for example, cleaning fluids, solvents,	
		lubrication oil and fuel) should be handled according to the Code of	
		Practice on the Packaging, Labelling and Storage of Chemical	
		Wastes. Spent chemicals should be collected by a licensed collector	
		for disposal at the CWTF or other licensed facility, in accordance	
		with the Waste Disposal (Chemical Waste) (General) Regulation.	
	S6.7	Separation of chemical wastes for special handling and appropriate	^
		treatment.	
S3.5		General Refuse	^
		General refuse should be stored in enclosed bins or compaction units	
		separate from C&D material. A licensed waste collector should be	
		employed by the contractor to remove general refuse from the site,	
		separately from C&D material. Effective collection and storage	
		methods (including enclosed and covered area) of site wastes would	
		be required to prevent waste materials from being blown around by	
		wind, wastewater discharge by flushing or leaching into the marine	
		environment, or creating odour nuisance or pest and vermin	
		problem.	

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

Implementation Schedule forEIA for KTDEIA for KTDDevelopment– Roads D3ARef.& D4A Ref.		Environmental Protection Measures / Mitigation Measures	Status	
		hoardings around works areas in visually unobtrusive colours.		
- CM4 - Reduc		- 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.	NA	

Remarks:			
^	Compliance of mitigation measure.	Х	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 May 2021	Date:	12 May 2021		
Mitigation Measures:	Vehicle washing basin was provided.	Mitigation Measures:	Containers were labelled.		
			A851		
Date:	20 May 2021	Date:	20 May 2021		
Mitigation Measures:	Watering of the work site with active dust emitting activities by automatic water spray system.	Mitigation Measures:	Quiet PME was used.		

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

#### **Reporting Month: May 2021**

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	1	0	0

Complaint Log	g for ED/2018/01			
Complaint	Date of	Description of Complaint Investigation / Recommendations / Actions		Close-Out Date /
Ref. No.	Complaint	Description of Complaint	Investigation / Recommendations / Actions	Status
C0001	A dust complaint was referred from the Contractor on 21 October 2020 regarding a pubic complaint via 1823 hotline (Case no. 3-6518939602) on 20 October 2020.	<ol> <li>The water spraying system was not operated in proper time.</li> <li>Stockpile was not covered properly.</li> <li>Haul road was not wetted.</li> <li>Materials transported on trucks were not provided with mechanical covers.</li> </ol>	1. Based on the information provided by the Contractor on 22 October 2020, the water sprinklers system was sprayed every 15 minutes	<ul> <li>Closed-out on 5 Nov 2020</li> <li>No further complaint was received.</li> </ul>

Complaint Log	Complaint Log for ED/2018/01						
Complaint Ref. No.	Date of Complaint	Description of Complaint Investigation / Recommendations / Actions		Close-Out Date / Status			
			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.				

#### FUGRO TECHNICAL SERVICES LIMITED

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Appendix D

Monthly EM&A Report For Contract No. ED/2018/05 Kai Tak Development – Stage 5B infrastructure works at the former north apron area

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## **Environmental Monitoring and Audit Report**

for

## **Contract No. ED/2018/05 –**

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

## Contract No.: EDO 2/2020

May 2021

(Version 1.1)

Certified By:	Jan.
	(Environmental Team Leader)





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

Website: www.acuityhk.com

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

Date: 15 June 2021 Your ref: Our ref: PL-202106029

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

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

Dear Mr. Leung,

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

Reference is made to the Monthly EM&A Report (May 2021) (Version 1.1) provided by the Environmental Team on 11 June 2021.

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

Thank you for your attention.

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

Kevin Li Independent Environmental Checker

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

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## **EXECUTIVE SUMMARY**

1. This is the 4th Monthly Environmental Monitoring & Audit (EM&A) report which summaries the findings of the EM&A Programme during the reporting period from 1 to 31 May 2021.

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

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

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

 Table I
 Non-compliance Record in the Reporting Month

#### Complaint log

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

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

Table II Summary of complaints in the Reporting Month

#### Notifications of summons and successful prosecutions

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

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

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

#### **Report changes**

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

#### Key construction works in the reporting month

- 9. Major construction activities undertake during the reporting month included:
  - Construction of box culvert
  - Pre-drilling works and trial pit excavation
  - Temporary road diversion at Sa Po Road
  - Bored pile works for landscape elevated walkway

- Instrumentation installation at SB-01
- Pre-drilling work for S14
- Drainage works for Pedestrian Street No.1 & No.2
- Drainage works for Crowd Dispersal Route
- Removal existing piles at Road D1
- Rising main construction

#### **Future key issues**

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

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

Future key issues in the coming month	Potential impact
Pre-drilling works and trial pit excavation	Noise and Air Quality
Temporary road diversion at Sa Po Road	Noise and Air Quality
Bored pile works for landscape elevated walkway	Noise and Air Quality
Pre-drilling work for S14	Noise and Air Quality
Drainage works for Pedestrian Street No. 1 & No. 2	Noise and Air Quality
Construction of Crowd Dispersal Route	Noise and Air Quality
Rising main construction	Noise and Air Quality

### **1. INTRODUCTION**

#### Project Background

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

#### **Project Organization**

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

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

Table 1.1 Contact Information of Key Personnel

#### Works Area and Construction Programme

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

#### Construction works undertaken during reporting month

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

the first indigentiation of the first and th				
Construction of box culvert	Pre-drilling work for S14			
Pre-drilling works and trial pit excavation	Drainage works for Pedestrian Street No. 1 & No. 2			
Temporary road diversion at Sa Po Road	Drainage works for Crowd Dispersal Route			
Bored pile works for landscape elevated walkway	Removal existing piles at Road D1			
Instrumentation installation at SB-01	Rising main construction			

Table 1.2 Major activities of the Project during reporting month

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

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

Table 1.3 Summary of Status of Required Submission of EPs

EP Condition EP-337/2009	Submission	Submission Date
Condition 1.11	Notification of Commencement Date of Construction of the Project	12 Jan 2021
Condition 2.3	Management Organization of Main Construction Companies	21 Sep 2020
Condition 2.4	Design Drawings	12 Jan 2021
Condition 2.11	Landscape Mitigation Plans	17 Dec 2020
Condition 3.2	Baseline Monitoring Report	12 Jan 2021
Condition 3.3	Monthly EM&A Report (April 2021)	13 May 2021

## 2. AIR QUALITY MONITORING

#### **Monitoring Requirements**

2.1 In accordance with EM&A Manual (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 days will be strictly observed at all of the monitoring stations for 24-hour TSP. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days will be undertaken when the highest dust impact occurs.

#### **Monitoring Locations**

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

Table 2.1 Locations of Air Quality Monitoring Stations

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

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

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

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

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

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

#### **Monitoring Equipment**

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

Equipment	Model	Quantity	Calibration Interval
HVS SamplerTE-5170 X c/w of TSP sampling inlet		2	2 months
HVS Calibrator	HVS Calibrator TISCH TE-5025A		1 year
1-hour TSP Dust Meter			1 year
Weather StationDavis Vantage Pro2 Weather Station		1	6 months

Table 2.3 Air Quality Monitoring Equipment

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

#### Monitoring Methodology and QA/QC Procedure

#### 24-hour TSP Monitoring

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

2.9 Setup criteria of HVS are shown as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind was provided.
- No two samplers were placed less than 2m apart.
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2m of separation from walls, parapets and penthouses was set for the rooftop samples.
- A minimum of 2m separation from any supporting structure, measured horizontally was set.
- No furnaces or incineration flues was nearby.
- Airflow around the sampler was unrestricted.
- Any wire fence and gate, to protect the samplers, was not caused any obstruction during monitoring.
- Permission were obtained to setup the samplers and to obtain access to the monitoring stations.
- A secured supply of electricity was provided to operate the samplers.
- 2.10 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m³/min. and 1.7 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.11 For TSP sampling, Glass Fiber Filter Media 8" x 10" having a collection efficiency of > 99 % for particles of 0.3 μm diameter were used.
- 2.12 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station.
- 2.13 The filter holding frame was removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.14 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure was sufficient to avoid air leakage at the edges.
- 2.15 The shelter lid was closed and secured with the aluminium strip.
- 2.16 The timer was programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper

can be found out by using the filter number).

2.17 After sampling, the filter was removed from the HVS and put into a clean and labeled seal plastic bag to avoid cross contamination. The elapsed time was also be recorded. The sampled filters were sent to the HOKLAS accredited or other internationally accredited laboratory for weighting.

#### Maintenance/Calibration

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

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

#### 1-hour TSP Monitoring

#### Measurement Procedures

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

#### Maintenance/Calibration

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

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

#### Wind Data Monitoring

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

#### Action and Limit Levels

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

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

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

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

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

#### Impact Air Quality Monitoring results

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

Air Monitoring Station	Average TSP Concentration, $\mu g/m^3$	Range, µg/m ³	Action Level, µg/m ³	Limit Level, µg/m ³
AM2(A)	51	32-88	175	260
AM3	44	30-84	172	260

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

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

Air Monitoring Station	Average TSP Concentration, µg/m ³	Range, μg/m ³	Action Level, µg/m ³	Limit Level, µg/m ³
AM2(A)	38	19-60	302	500
AM3	28	15-57	301	500

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

## **3. NOISE MONITORING**

#### **Monitoring Requirements**

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

#### **Monitoring Locations**

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

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

Table 3.1 Locations of Noise Monitoring Stations

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

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

Noise Monitoring Station	Location for Measurement	Parameter	Frequency and Duration
M4(A) – Le Billionnaire	Podium (Façade)	x x 1	30 - minutes measurement at each monitoring station between 0700
M5(A) – Prince Ritz	Podium (Façade)	$L_{Aeq}$ , $L_{A10}$ and $L_{A90}$	<ul> <li>1900 hrs on normal weekdays</li> <li>(Monday to Saturday) at frequency of once per week.</li> </ul>

Table 3.2 Noise Monitoring Parameters, Frequency and Duration

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

#### **Monitoring Equipment**

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

Table 3.3 Noise Monitoring Equipment

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

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

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

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

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

#### Maintenance and Calibration

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

#### Action and Limit Levels

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

Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level ^
0700 – 1900 hrs	M4(A)	69.5	When one	$75 \text{ ID}(\mathbf{A})$
on normal weekdays	M5(A)	72.5	documented complaint is received.	75 dB(A)

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

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

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

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

Noise Measured LAeg. 30-Limit Measured LAeq, 30-Action Level Monitoring min, Level  $_{min}$ , Average, dB(A) Station Range, dB(A)M4(A)70.1 69.5 - 71.0When one documented 75 complaint is received dB(A)72.1 71.9 - 72.3M5(A)

Table 3.5 Summary of Noise Monitoring Data during the reporting month

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

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

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

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

Air Monitoring Station	ASR No. in EIA report	Predicted ( Maximum 24-h	Cumulative our average TSP atration Scenario 2 (Mid 2013 to Late 2016), µg/m ³	Measured 24-hr average TSP in Reporting Month (May 2021) µg/m ³
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	32 - 88
AM3 - Sky Tower	A40^	106	138	30 - 84

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

Note:

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

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

Air Monitoring Station	ASR No. in EIA report		Cumulative our average TSP atration Scenario 2 (Mid 2013 to Late 2016), µg/m ³	Measured 1-hr average TSP in Reporting Month (May 2021) µg/m ³	
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA NA		
AM3 - Sky Tower	A40	217^	247^	15 - 57	

Note:

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

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour LAeq, 30min, dB(A)	Measured Noise Level in Reporting Month (May 2021) L _{Aeq, 30min} , dB(A)
M4(A) – Le Billionnaire	NA	NA	69.5 - 71.0
M5(A) – Prince Ritz	NA	NA	71.9 - 72.3

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

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

## 5. LANDSCAPE AND VISUAL MONITORING

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

#### **Results and Observations**

- 5.2 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 5.3 Site inspections were conducted on 6, 12, 20 and 27 May 2021 in the reporting month.
- 5.4 The summary of site audits is 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
6 May 2021	No	NA	NA
12 May 2021	No	NA	NA
20 May 2021	No	NA	NA
27 May 2021	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 M shall be performed.

## 6. ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### **Site Inspection**

- 6.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site inspections were conducted on 6, 12, 20 and 27 May 2021 in the reporting month.
- 6.3 The summaries of site audits are attached in Table 6.1.

Inspection			Close-out
Date	Key Observations	Recommendations / Actions	Date /
Date			Status
6 May 2021	Observation: Provision of sufficient waste disposal point and regular collection for waste should be properly implemented.	Action Taken: Regular collection of waste has been implemented on site.	Closed out on 12 May 2021
12 May 2021	Observation: Waste should be removed in order to keep good housekeeping at B1.	Action Taken: Waste has been removed at B1.	Closed out on 20 May 2021

Table 6.1 Summary of site inspections observations during the reporting month

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
20 May 2021	Observation: Missing the non-inert C&D materials label on the container at B1.	Action taken: Non-inert C&D materials label has been stuck on the container at B1.	Closed out on 20 May 2021
27 May 2021	Observation:         Missing the non-inert C&D materials label on the container at	Action Taken: Waste has been removed at LW02.	Closed out on 3 June 2021

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

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

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

6.6 A summary of the relevant permits, licenses and/or notifications on environmental protection for

the Project is shown in Table 6.2.

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

Table 6.2 Summary of Environmental Licenses, Notifications and Permits

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

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

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

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

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

Table 6.3 Summary of complaints in the Reporting Month

6.9 Complaint log is shown in Appendix P.

#### Notifications of summons and successful prosecutions

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

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

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

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

## 7. FUTURE KEY ISSUES

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

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

Future key issues in the coming month	Potential impact
Pre-drilling works and trial pit excavation	Noise and Air Quality
Temporary road diversion at Sa Po Road	Noise and Air Quality
Bored pile works for landscape elevated walkway	Noise and Air Quality
Pre-drilling work for S14	Noise and Air Quality

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

Future key issues in the coming month	Potential impact
Drainage works for Pedestrian Street No. 1 & No. 2	Noise and Air Quality
Construction of Crowd Dispersal Route	Noise and Air Quality
Rising main construction	Noise and Air 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.
- 7.3 The recommended environmental measures proposed in the EM&A Manual (EIA Register No. AEIAR-130/2009) shall be effectively implemented to minimize the potential environmental impacts. The Contractor is reminded to implement the mitigation measures properly.

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

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

### 8. CONCLUSIONS

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

## Figure

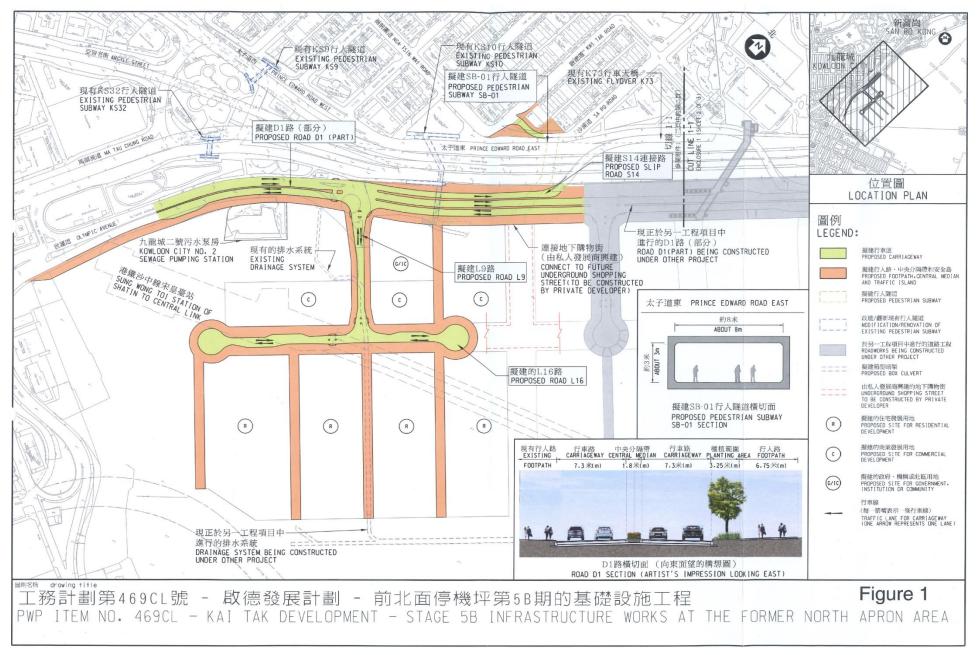


Figure 1 - Proposed works of Contract No. ED/2018/05

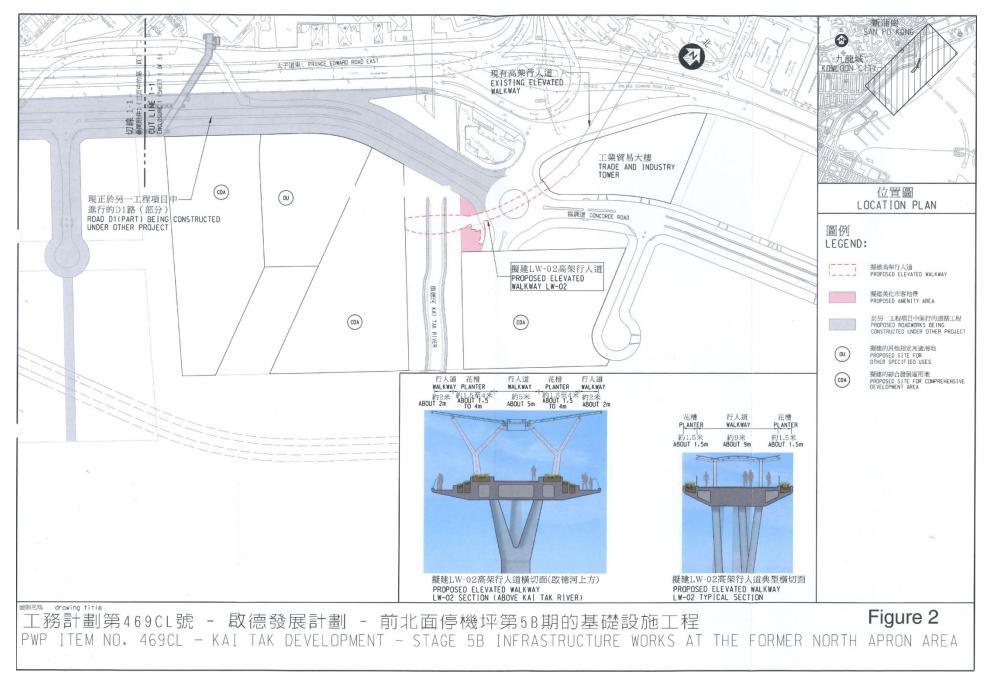


Figure 2 – Proposed works of Contract No. ED/2018/05

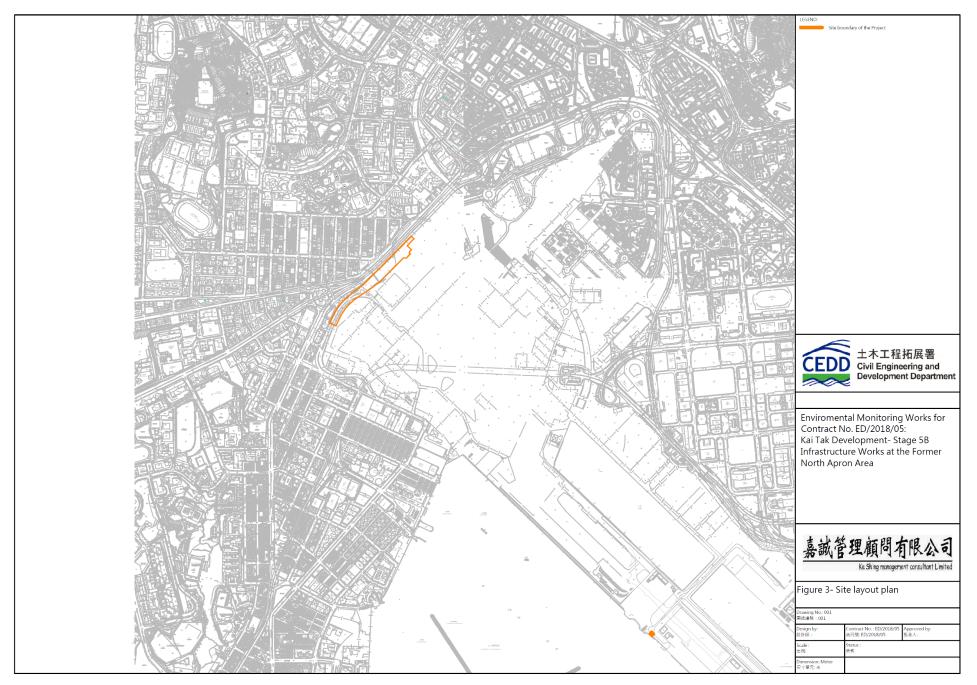


Figure 3 – D1 Road Site Layout Plan

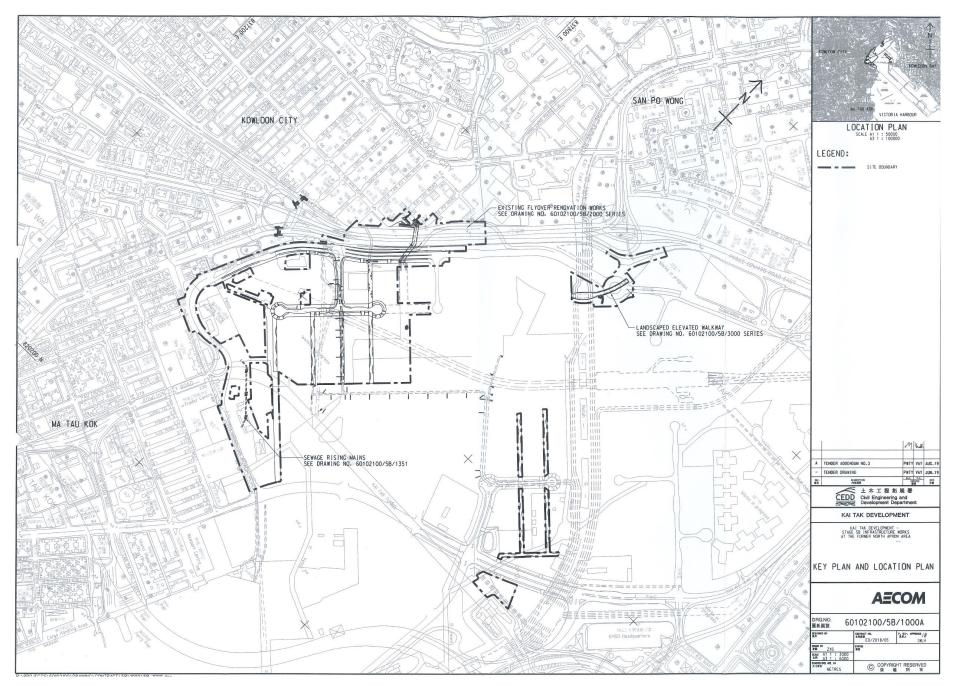


Figure 4 – Site Layout Plan

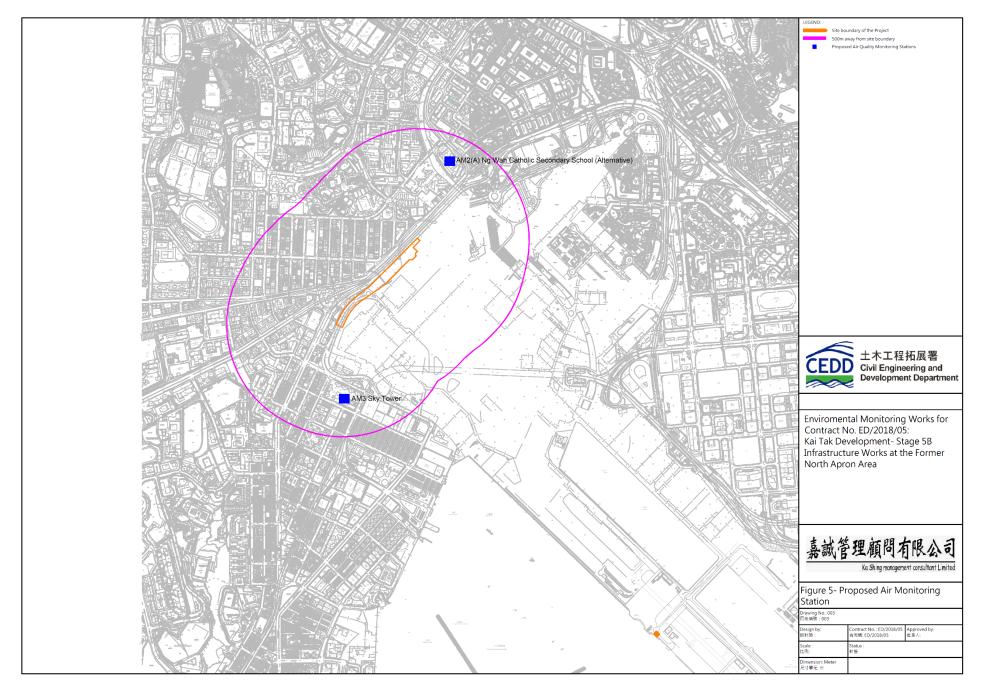


Figure 5 – Air Quality Monitoring Stations

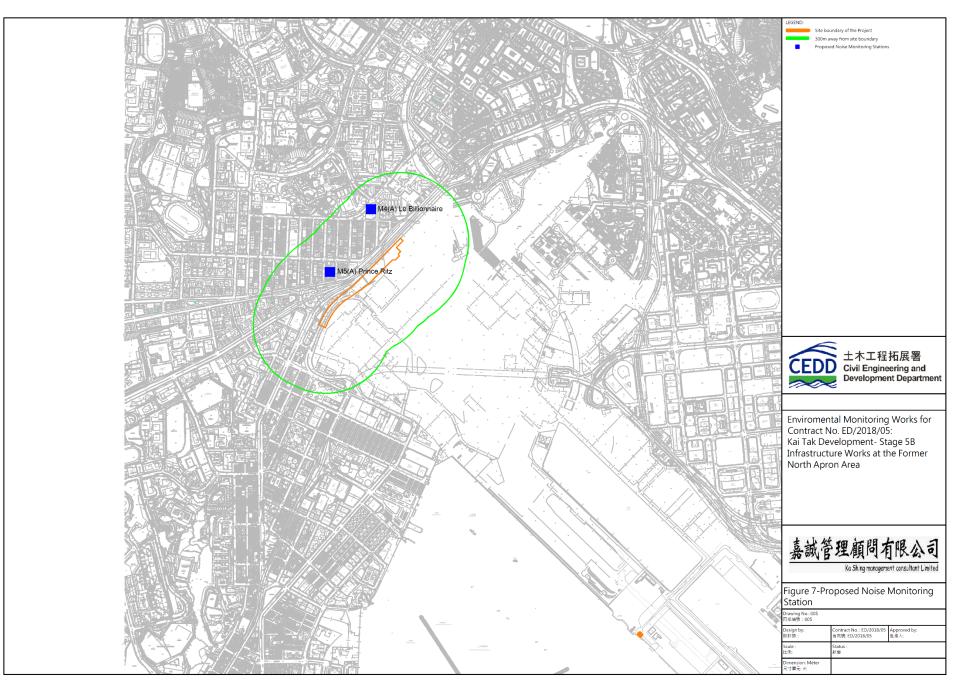
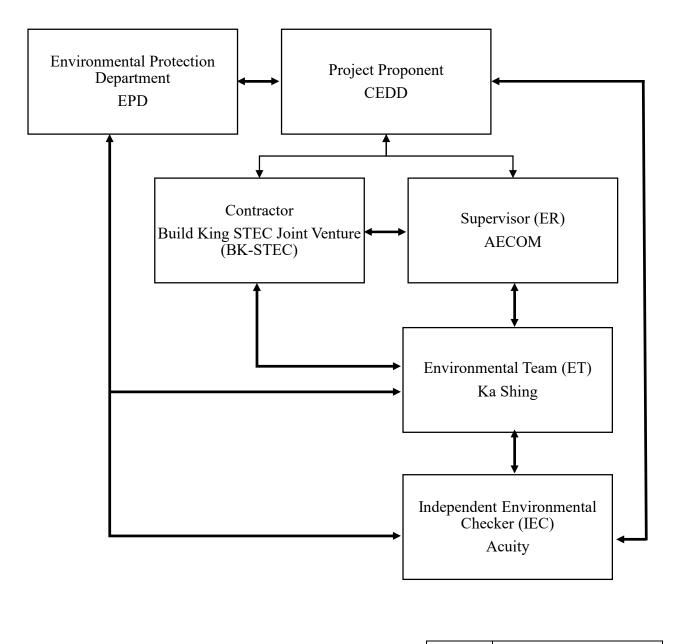
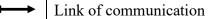


Figure 6 – Noise Monitoring Stations

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





## **Appendix B – Construction Programme**

| Activity Name                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ori. 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|                                                                                                             | Central data<br>Central data<br>Central data<br>Central data<br>Central data<br>Pert 5.<br>Net 5. | Contract storing date         0           Parls 1, N. 18, 2, 3, 4, 7, 8 and 9         0           Parls 1, N. 18, 2, 3, 4, 7, 8 and 9         0           Parls 4, N. 19, 20, 4, 7, 8 and 9         0           Parls 4, N. 19, 20, 4, 7, 8 and 9         0           Parls 4, N. 19, 20, 4, 7, 8 and 9         0           Parls 4, N. 19, 20, 4, 7, 8 and 9         0           Parls 4, N. 19, 20, 4, 7, 8 and 9         0           Works Area WA.         0           Works Area WA.         0           Startion 15, Control 6 and and real barrets of land Parls 1 and A call parls and stersion 8 demolfand of ed. structures         0           Startion 15, Control 6 and and real barrets of land Parls 1 and A call parls and stersion 8 demolfand of ed. structures         0           Startion 15, Control 6 and 10 and transming moves for all Parls         0           Startion 15, Control 6 and 10 and 14 (Skip to ecosion within 5 Harl 2 and 16 (Skip to ecosion within 5 Harl 2 and 16 (Skip to ecosion within 5 Harl 2 and 16 (Skip to ecosion within 5 Harl 2 and 16 (Skip to ecosion within 5 Harl 2 and 16 (Skip to ecosion within 5 Harl 2 and 16 (Skip to ecosion within 5 Harl 2 and 16 (Skip to ecosion within 5 Harl 2 and 16 (Skip to ecosion within 5 Harl 2 and 16 (Skip | Check and a local set of the set | Control data         Control         Contro         Contro         Control | Control of the Control of th | International and a set of a set o | Control         Control <t< td=""><td>Control         Control         <t< td=""><td>Constanting data         Constanting data&lt;</td><td>Constrained         Constrained         <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<></td><td>Constraints         Constraints         <thconstraints< th=""> <thconstraints< th=""></thconstraints<></thconstraints<></td><td>Control of Control Of</td><td>Control of and of an</td><td>Norwales         Norwales         Norwales</td><td>Output       Into       Into</td><td>Convergence       0       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10   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10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10</td><td>Consistency         Consistency         <thconsistency< th=""> <thconsistency< th=""></thconsistency<></thconsistency<></td><td>Character       Dial       Dial</td><td>Control of the optimized o</td><td>Constant     Constant     Const</td></t<> | Constanting data         Constanting data< | Constrained         Constrained <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<> | Constraints         Constraints <thconstraints< th=""> <thconstraints< th=""></thconstraints<></thconstraints<> | Control of | Control of and of an | Norwales         Norwales | Output       Into       Into | Convergence       0       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10 | Consistency         Consistency <thconsistency< th=""> <thconsistency< th=""></thconsistency<></thconsistency<> | Character       Dial       Dial | Control of the optimized o | Constant     Const |

▼ ▼ Critical Milestone ▼

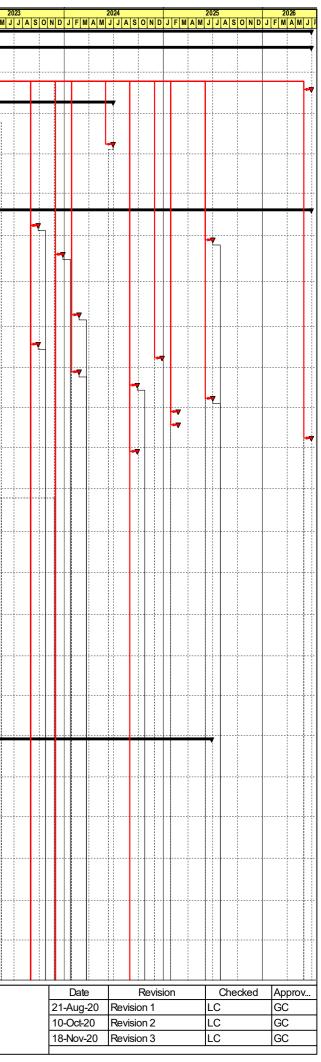
Critical Work

Summary



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

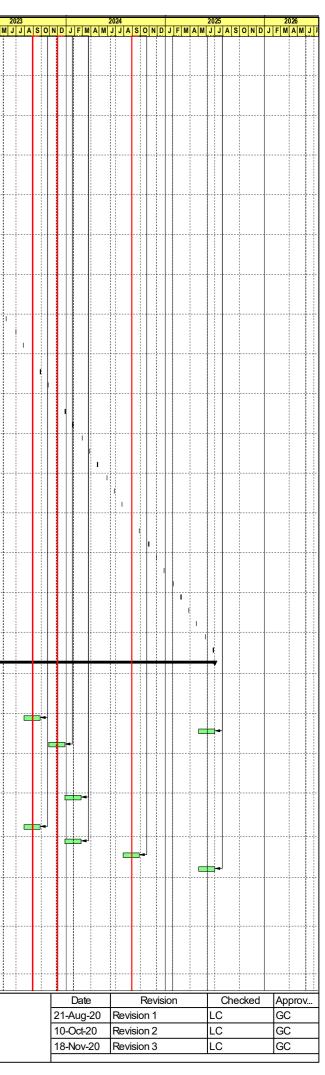
(Page 1 of 5)



Activity ID	Activity Name	Dur (d)	Ori. Dur	TRA	Early Start	Early Finish	Late Start	Late Finish	Total	Calenda	r 10		_	203	21			2022		
			(d)	(d)	-	-			Float			OND	JFM			ONDJ	FMA		ONDJF	MAM
KTD.KD.1590 KTD.KD.1600	13th SSMC Meeting 14th SSMC Meeting	1	1d 1d	0d 0d	26-Aug-21 30-Sep-21	26-Aug-21 30-Sep-21	26-Aug-21 30-Sep-21	26-Aug-21 30-Sep-21	0	2	-									
KTD.KD.1610	15th SSMC Meeting	1	1d	0d	28-Oct-21	28-Oct-21	28-Oct-21	28-Oct-21	0	2	-									
KTD.KD.1620	16th SSMC Meeting	1	1d	0d	25-Nov-21	25-Nov-21	25-Nov-21	25-Nov-21	0	2									1	
KTD.KD.1630	17th SSMC Meeting	1	1d	0d	30-Dec-21	30-Dec-21	30-Dec-21	30-Dec-21	0	2										
KTD.KD.1640	18th SSMC Meeting	1	1d	0d	27-Jan-22	27-Jan-22	27-Jan-22	27-Jan-22	0	2							1		ļ	
KTD.KD.1650	19th SSMC Meeting	1	1d	0d	24-Feb-22	24-Feb-22				2	-									
KTD.KD.1660 KTD.KD.1670	20th SSMC Meeting 21st SSMC Meeting	1	1d 1d	0d 0d	31-Mar-22 28-Apr-22	31-Mar-22 28-Apr-22	31-Mar-22 28-Apr-22	31-Mar-22 28-Apr-22	0	2	-									
KTD.KD.1680	22nd SSMC Meeting	1	1d	0d	26-May-22	26-May-22			-	2								1		
KTD.KD.1690	23rd SSMC Meeting	1	1d	0d	30-Jun-22	30-Jun-22	30-Jun-22	30-Jun-22	0	2										
KTD.KD.1700	24th SSMC Meeting	1	1d	0d	28-Jul-22	28-Jul-22	28-Jul-22	28-Jul-22	0	2								1		
KTD.KD.1710	25th SSMC Meeting	1	1d	0d	25-Aug-22	25-Aug-22	-	-		2										
KTD.KD.1720	26th SSMC Meeting	1	1d	0d	29-Sep-22	29-Sep-22	-	-		2	-									
KTD.KD.1730 KTD.KD.1740	27th SSMC Meeting 28th SSMC Meeting	1	1d 1d	0d 0d	27-Oct-22 24-Nov-22	27-Oct-22 24-Nov-22	27-Oct-22 24-Nov-22	27-Oct-22 24-Nov-22	0	2										
KTD.KD.1750	29th SSMC Meeting	1	1d	0d	29-Dec-22	29-Dec-22	29-Dec-22			2										
KTD.KD.1760	30th SSMC Meeting	1	1d	0d	26-Jan-23	26-Jan-23	26-Jan-23	26-Jan-23	0	2									1	
KTD.KD.1770	31st SSMC Meeting	1	1d	0d	23-Feb-23	23-Feb-23	23-Feb-23	23-Feb-23	0	2										
KTD.KD.1780	32nd SSMC Meeting	1	1d	0d	30-Mar-23	30-Mar-23	30-Mar-23		0	2										
KTD.KD.1790	33rd SSMC Meeting	1	1d	0d	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	0	2									<u></u>	
KTD.KD.1800 KTD.KD.1810	34th SSMC Meeting 35th SSMC Meeting	1	1d 1d	Od Od	25-May-23 29-Jun-23	25-May-23 29-Jun-23	25-May-23 29-Jun-23	25-May-23 29-Jun-23	0	2	-									
KTD.KD.1820	36th SSMC Meeting	1	1d	0d	27-Jul-23	23-Jul-23	27-Jul-23	23-Jul-23	0	2	- 11									
KTD.KD.1830	37th SSMC Meeting	1	1d	0d	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	-	2									1	
KTD.KD.1840	38th SSMC Meeting	1	1d	0d	28-Sep-23	28-Sep-23	28-Sep-23	-		2										
KTD.KD.1850	39th SSMC Meeting	1	1d	0d	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	0	2										
KTD.KD.1860	40th SSMC Meeting	1	1d	Od	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23		2										
KTD.KD.1870	41st SSMC Meeting	1	1d	0d	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23		2	-									
KTD.KD.1880 KTD.KD.1890	42nd SSMC Meeting 43rd SSMC Meeting	1	1d 1d	0d 0d	25-Jan-24 29-Feb-24	25-Jan-24 29-Feb-24	25-Jan-24 29-Feb-24	25-Jan-24 29-Feb-24	0	2										
KTD.KD.1900	44th SSMC Meeting	1	1d	0d	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24	-	2										
KTD.KD.1910	45th SSMC Meeting	1	1d	0d	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	0	2										
KTD.KD.1920	46th SSMC Meeting	1	1d	0d	30-May-24	30-May-24	30-May-24	30-May-24	0	2										
KTD.KD.1930	47th SSMC Meeting	1	1d	0d	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24	0	2										
KTD.KD.1940	48th SSMC Meeting	1	1d	0d	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	0	2										
KTD.KD.1950 KTD.KD.1960	49th SSMC Meeting 50th SSMC Meeting	1	1d 1d	0d 0d	29-Aug-24 26-Sep-24	29-Aug-24 26-Sep-24	29-Aug-24 26-Sep-24	29-Aug-24 26-Sep-24	0	2	-									
KTD.KD.1970	51st SSMC Meeting	1	1d	0d	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	0	2										
KTD.KD. 1980	52nd SSMC Meeting	1	1d	0d	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24		2										
KTD.KD.1990	53rd SSMC Meeting	1	1d	0d	26-Dec-24	26-Dec-24	26-Dec-24	26-Dec-24	0	2										
KTD.KD.2000	54th SSMC Meeting	1	1d	0d	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25	0	2										
KTD.KD.2010	55th SSMC Meeting	1	1d	b0	27-Feb-25	27-Feb-25				2	-									
KTD.KD.2020 KTD.KD.2030	56th SSMC Meeting 57th SSMC Meeting	1	1d 1d	0d 0d	27-Mar-25 24-Apr-25	27-Mar-25 24-Apr-25	27-Mar-25 24-Apr-25	27-Mar-25 24-Apr-25	0	2										
KTD.KD.2040	58th SSMC Meeting	1	1d	0d	29-May-25	29-May-25	29-May-25	29-May-25	0	2										
KTD.KD.2050	59th SSMC Meeting	1	1d	0d	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25		2										
BIM RELATED	DELIVERABLES	1796			31-Jul-20	30-Jun-25	01-Aug-20	30-Jun-26	365	2	-									
KTD.KD.2060	Prepare/submit BIM Execution Plan	29	29d	0d	31-Jul-20	28-Aug-20	01-Aug-20	29-Aug-20	1	2	-									
KTD.KD.2070	Prepare/submit Combined Services Drawings and CBWD generated from BIM	44	44d	0d	31-Jul-20	12-Sep-20	01-Aug-20	13-Sep-20	1	2										
KTD.KD.2080	Prepare/submit proposal of asset information requirement	364	364d	0d	31-Jul-20	29-Jul-21	01-Aug-20	30-Jul-21	1	2	-	-								
KTD.KD.2090 KTD.KD.2100	Prepare/submit Asset Data Deliverables for Section 1 Prepare/submit Asset Date Deliverables for Section 2	60 60	60d 60d	0d 0d	29-Jul-23 02-May-25	26-Sep-23 30-Jun-25	02-May-26 02-May-26			2	-									
KTD.KD.2110	Prepare/submit Asset Date Deliverables for Section 3	60	60d	0d	29-Oct-23	27-Dec-23	02-May-26	30-Jun-26		2										
KTD.KD.2120	Prepare/submit Asset Date Deliverables for Section 4	60	60d	0d	02-May-21	30-Jun-21	02-May-26	30-Jun-26	1826	2					•					
KTD.KD.2130	Prepare/submit Asset Date Deliverables for Section 5	60	60d	0d	19-Oct-21	17-Dec-21	02-May-26	30-Jun-26	1656	2						<b>₩</b>				
KTD.KD.2140	Prepare/submit Asset Date Deliverables for Section 6	60	60d	0d	29-Jan-22	29-Mar-22	02-May-26	30-Jun-26	1554	2									4	
KTD.KD.2150	Prepare/submit Asset Date Deliverables for Section 7	60	60d	0d	28-Dec-23	25-Feb-24	02-May-26			2	-				_					
KTD.KD.2160	Prepare/submit Asset Date Deliverables for Section 8	60	60d	0d	31-May-21	29-Jul-21	02-May-26	30-Jun-26		2	-									
KTD.KD.2170	Prepare/submit Asset Date Deliverables for Section 9	60	60d	0d	29-Jul-23	26-Sep-23	02-May-26	30-Jun-26	_	2										
KTD.KD.2190 KTD.KD.2200	Prepare/submit Asset Date Deliverables for Section 11 Prepare/submit Asset Date Deliverables for Section 12	60 60	60d 60d	0d 0d	28-Dec-23 28-Jul-24	25-Feb-24 25-Sep-24	02-May-26 02-May-26	30-Jun-26 30-Jun-26		2	-									
KTD.KD.2200	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13	60	60d	0d	02-May-25	30-Jun-25	02-May-26	30-Jun-26		2										
	NEERING SHCEME DROP-OFF SCHEDULE	833			31-Jul-20	10-Nov-22	31-Jul-20	10-Nov-22	_	2	+								₩	
KTD.VE.1000	Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01	153	96d	0d	31-Jul-20	30-Dec-20	31-Jul-20	30-Dec-20	0	2	┝╼╼┥									
KTD.VE.1010	Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01	165	133d	0d	31-Jul-20	11-Jan-21	31-Jul-20	11-Jan-21	0	2	┟╧┻┥									
KTD.VE.1020	Review/prepare/submit VE scheme for pilling arrangement for new pier of existing Bridge K73	431	426d	0d	01-Aug-20	05-Oct-21	01-Aug-20	05-Oct-21	0	2		<b>    </b>  -				, <b> </b>			+	
KTD.VE.1020	Review/prepare/submit VE scheme for pilling arrangement for abutment of Slip Road S14	832	752d	0d	01-Aug-20 01-Aug-20	10-Nov-22	01-Aug-20	10-Nov-22	_	2				_						
KTD.VE.1030	Review/prepare/submit VE scheme for piling arrangement for lift shaft of KS10	627	766d	0d	01-Aug-20	19-Apr-22	01-Aug-20	19-Apr-22		2										
KTD.VE.1040	Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02	677	288d		31-Jul-20	07-Jun-22	31-Jul-20	07-Jun-22	_			<b>  </b>    -								
KID.VE.1050		0//	2000	Od	JI-JUI-ZU	ur-Jun-22	5 I-JUI-20	or-Jun-22	0	2										
∇ ∇ Mile	estone Planned W	FD/	2018	/05 M	(ai Tak I	Develor	oment -	Stage 5	B Inf	rastr	uctu	re W	orks	s at t	he F	orme	er No	rth An	ron Are	a
🔻 🔻 Crit	estone Planned W ical Milestone Summary Summary					2010101		•								J. 110				~
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									<b>_</b>	~ ~	->									

Build King – STEC Joint Venture

WORKS PROGRAMME (Page 2 of 5)



AND STRUCTURAL WORKS           IERAL AND PRELIMINARY WORKS           GW.1000         General and preliminary works (inclu site formation, site set-up, access, tem           GW.1010         Construction, maintenance and removal of ICA, EVA, Crowd Dispersal Rou           GW.1020         Prepare/submit site arrangement plan (inclu hoarding, project sign board ar           GW.1030         Design/submit/approval site layout plan and Contractor's site accommodatio           GW.1040         Construct foundation and erect Contractor's site accommodation           GW.1050         Tree Survey           GW.1060         Tree felling works           GW.1070         Protection to retained trees and tree transplating works           STERUCTION OF PEDESTRIAN SUBWAY SB-01         DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1           DSB.1000         Liaison/coordinate with utility and service undertakings on diversion works (           DSB.1010         Expose and install protect/support system for existing underground utilities.           DSB.1020         Installation of sheet piles for South Shaft and construction of traffic deck at 1           DSB.1030         Construction of road diversion for PERE westbound           DSB.1040         Implementation of traffic diversion for PERE westbound           DSB.1050         Installation of ELS and excavation for South Shaft at Proposed Road D1           DSB.1060         Constr	ute and other temporary access and security arrangement)	1720 1708 1200 1383			24 1.1.00							JUDJ	F m A	MJJA		JJFMAM	IJJASO	JNDJ
GW.1000         General and preliminary works (inclu site formation, site set-up, access, terr           GW.1010         Construction, maintenance and removal of ICA, EVA, Crowd Dispersal Rou           GW.1020         Prepare/submit/site arrangement plan (inclu hoarding, project sign board ar           GW.1030         Design/submit/approval site layout plan and Contractor's site accommodation           GW.1040         Construct foundation and erect Contractor's site accommodation           GW.1050         Tree Survey           GW.1060         Tree felling works           GW.1070         Protection to retained trees and tree transplating works           STRUCTION OF PEDESTRIAN SUBWAY SB-01           DSB.1000         Liaison/coordinate with utility and service undertakings on diversion works (           Q.SB.1010         Expose and install protect/support system for existing underground utilities on South Shaft and construction of traffic deck at 10           D.SB.1020         Installation of traffic diversion for PERE westbound           D.SB.1030         Construction of RC structure from CH114.648 to CH67           DSB.1040         Implementation of scalt diversion of Sa Po Road D1           D.SB.1050         Installation of seel works, ABWF, other facilities, lift and other E&M installation           DSB.1060         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carria)           D.SB.1070         Backfilling for Sout	ute and other temporary access and security arrangement)	1200 1383			31-Jul-20	15-Apr-25	31-Jul-20	30-Jun-26										
GW.1010       Construction, maintenance and removal of ICA, EVA, Crowd Dispersal Rou         GW.1020       Prepare/submit/site arrangement plan (inclu hoarding, project sign board ar         GW.1030       Design/submit/approval site layout plan and Contractor's site accommodation         GW.1040       Construct foundation and erect Contractor's site accommodation         GW.1050       Tree Survey         GW.1050       Tree felling works         GW.1070       Protection to retained trees and tree transplating works         STRUCTION OF PEDESTRIAN SUBWAY SB-01         DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1         D.SB.1000       Liaison/coordinate with utility and service undertakings on diversion works (         D.SB.1010       Expose and install protect/support system for existing underground utilities 0         D.SB.1020       Installation of sheet ples for South Shaft and construction of traffic deck at 10         D.SB.1030       Construction of road diversion for PERE westbound         D.SB.1040       Implementation of traffic diversion for South Shaft at Proposed Road D1         D.SB.1050       Installation of Seet works, ABWF, other facilities, lift and other E&M installation         D.SB.1070       Backfilling for South Shaft at Proposed Road D1         D.SB.1080       Installation of read diversion of Sa Po Road (TTA Scheme A1, incl. carria)         D.SB.1090       Construction of ro	ute and other temporary access and security arrangement)	1383	40001	0.1	31-Jul-20	03-Apr-25	01-Aug-20	30-Jun-26	453									
GW.1020       Prepare/submit site arrangement plan (inclu hoarding, project sign board ar         GW.1030       Design/submit/approval site layout plan and Contractor's site accommodation         GW.1040       Construct foundation and erect Contractor's site accommodation         GW.1050       Tree Survey         GW.1050       Tree felling works         GW.1060       Tree felling works         GW.1070       Protection to retained trees and tree transplating works         STRUCTION OF PEDESTRIAN SUBWAY SB-01         DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1         D.SB.1000       Liaison/coordinate with utility and service undertakings on diversion works (         D.SB.1010       Expose and install protect/support system for existing underground utilities on Statilation of road diversion for PERE westbound         D.SB.1020       Installation of traffic diversion for PERE westbound         D.SB.1030       Construction of RC structure from CH114.648 to CH67         D.SB.1040       Implementation of traffic diversion of Sa PO Road D1         D.SB.1050       Installation of seelworks, ABWF, other facilities, lift and other E&M installation         DSB.1060       Construction of road diversion of Sa PO Road (TTA Scheme A1, incl. carria)         D.SB.1070       Backfilling for South Shaft at Proposed Road D1         D.SB.1080       Installation of seelworks, ABWF, other facilities, lift and other E&	and security arrangement)		1200d 1383d		31-Jul-20 31-Jul-20	22-Aug-24 03-Apr-25	07-Jun-21 17-Oct-20	30-Jun-25 30-Jun-25	248 65	1								
GW.1030         Design/submit/approval site layout plan and Contractor's site accommodation           GW.1040         Construct foundation and erect Contractor's site accommodation           GW.1050         Tree Survey           GW.1050         Tree Survey           GW.1050         Tree felling works           GW.1050         Tree felling works           GW.1070         Protection to retained trees and tree transplating works           STRUCTION OF PEDESTRIAN SUBWAY SB-01           DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1           D.SB.1000         Liaison/coordinate with utility and service undertakings on diversion works (           D.SB.1010         Expose and install protect/support system for existing underground utilities (           D.SB.1020         Installation of sheet piles for South Shaft and construction of traffic deck at 10           D.SB.1030         Construction of road diversion for PERE westbound           D.SB.1040         Implementation of traffic diversion for PERE westbound           D.SB.1050         Installation of ELS and excavation for South Shaft at Proposed Road D1           D.SB.1060         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriar)           D.SB.1080         Installation of seelworks, ABWF, other facilities, lift and other E&M installation           D.SB.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. ca	, , ,	13	1303u	0d 0d	31-Jul-20	12-Aug-20	01-Aug-20	13-Aug-20		2	e.							
GW.1050         Tree Survey           GW.1050         Initial tree survey report and tree felling application           GW.1055         Initial tree survey report and tree felling application           GW.1060         Tree felling works           GW.1070         Protection to relained trees and tree transplating works           INSTRUCTION OF PEDESTRIAN SUBWAY SB-01           DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1           D.SB.1000         Liaison/coordinate with utility and service undertakings on diversion works (           D.SB.1010         Expose and install protect/support system for existing underground utilities.           D.SB.1020         Installation of sheet ples for South Shaft and construction of traffic deck at 10           D.SB.1030         Construction of road diversion for PERE westbound           D.SB.1040         Implementation of traffic diversion for PERE westbound           D.SB.1050         Installation of ELS and excavation for South Shaft at Proposed Road D1           D.SB.1060         Construction of RC structure from CH114.648 to CH67           D.SB.1070         Backfilling for South Shaft at Proposed Road D1           D.SB.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.SB.1080         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carria)           D.SB.1090         Construction of road di		44	30d	14d	13-Aug-20	25-Sep-20	14-Aug-20		1	2	-							
GW.1055         Initial tree survey report and tree felling application           GW.1050         Tree felling works           GW.1070         Protection to retained trees and tree transplating works           INSTRUCTION OF PEDESTRIAN SUBWAY SB-01           DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1           D.SB.1000         Liaison/coordinate with utility and service undertakings on diversion works (           D.SB.1010         Expose and install protect/support system for existing underground utilities (           D.SB.1020         Installation of sheet ples for South Shaft and construction of traffic deck at 10           D.SB.1030         Construction of road diversion for PERE westbound           D.SB.1040         Implementation of traffic diversion for PERE westbound           D.SB.1050         Installation of ELS and excavation for South Shaft at Proposed Road D1           D.SB.1060         Construction of RC structure from CH114.648 to CH67           D.SB.1070         Backfilling for South Shaft at Proposed Road D1           D.SB.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.SB.1080         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carria)           D.SB.1090         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carria)           D.SB.1100         Diversion of existing underground utilities and services (incl. DN1800 dr		76	62d	14d	26-Sep-20	29-Dec-20	03-Apr-26	30-Jun-26	1630	1	╘╸							
GW.1060       Tree felling works         GW.1070       Protection to retained trees and tree transplating works         STRUCTION OF PEDESTRIAN SUBWAY SB-01         DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1         D.SB.1000       Liaison/coordinate with utility and service undertakings on diversion works (         D.SB.1010       Expose and install protect/support system for existing underground utilities.         D.SB.1020       Installation of sheet ples for South Shaft and construction of traffic deck at 1         D.SB.1030       Construction of road diversion for PERE westbound         D.SB.1040       Implementation of traffic diversion for PERE westbound         D.SB.1050       Installation of ELS and excavation for South Shaft at Proposed Road D1         D.SB.1060       Construction of RC structure from CH114.648 to CH67         D.SB.1070       Backfilling for South Shaft at Proposed Road D1         D.SB.1080       Installation of steelworks, ABWF, other facilities, lift and other E&M installation         DSB.1080       Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carria)         D.SB.1090       Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carria)         D.SB.1100       Diversion of existing underground utilities and services (incl. DN1800 drain         D.SB.1100       Installation of partial pipe pile and sheet pile of North Shaft at Sa Po Road for RTBM drive-in <td></td> <td>27</td> <td>27d</td> <td>0d</td> <td>31-Jul-20</td> <td>26-Aug-20</td> <td>01-Aug-20</td> <td>27-Aug-20</td> <td>1</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		27	27d	0d	31-Jul-20	26-Aug-20	01-Aug-20	27-Aug-20	1	2								
GW.1070         Protection to retained trees and tree transplating works           STRUCTION OF PEDESTRIAN SUBWAY SB-01           DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1           D.S.B.1000         Liaison/coordinate with utility and service undertakings on diversion works (           D.S.B.1010         Expose and install protect/support system for existing underground utilities.           D.S.B.1020         Installation of sheet ples for South Shaft and construction of traffic deck at 1           D.S.B.1030         Construction of road diversion for PERE westbound           D.S.B.1040         Implementation of traffic diversion for PERE westbound           D.S.B.1050         Installation of ELS and excavation for South Shaft at Proposed Road D1           D.S.B.1060         Construction of RC structure from CH114.648 to CH67           D.S.B.1070         Backfilling for South Shaft at Proposed Road D1           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carria)           D.S.B.1090         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carria)           D.S.B.1100         Diversion of existing underground utilities and services (incl. DN1800 drain           D.S.B.1110         Installation of partial pipe pile and sheet pile of North Shaft at Sa Po Road for RTBM drive-in		120	120d	0d	27-Aug-20	24-Dec-20	23-Dec-25	21-Apr-26		2	-							
Installation of PEDESTRIAN SUBWAY SB-01           DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1           D.S.B.1000         Liaison/coordinate with utility and service undertakings on diversion works (           D.S.B.1010         Expose and install protect/support system for existing underground utilities.           D.S.B.1020         Installation of sheet piles for South Shaft and construction of traffic deck at 1           D.S.B.1030         Construction of road diversion for PERE westbound diversion (TTA Scheme           D.S.B.1040         Implementation of traffic diversion for PERE westbound           D.S.B.1050         Installation of RC structure from CH114.648 to CH67           D.S.B.1060         Construction of RC structure from CH114.648 to CH67           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carrian           D.S.B.1090         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carrian           D.S.B.1100         Diversion of existing underground utilities and services (incl. DN1800 drain           D.S.B.1110         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road for RTBM diversion           D.S.B.1110         Installation of Remaining ELS and excavation of North Shaft at PERE westbound           D.S.B.11100         Construction of road diversion for Intermedi		60	53d	7d	28-Dec-20	11-Mar-21	22-Apr-26	30-Jun-26	1572	1								
DESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1           0.SB.1000         Liaison/coordinate with utility and service undertakings on diversion works (           0.SB.1010         Expose and install protect/support system for existing underground utilities.           0.SB.1010         Expose and install protect/support system for existing underground utilities.           0.SB.1020         Installation of sheet piles for South Shaft and construction of traffic deck at I           0.SB.1030         Construction of road diversion for PERE westbound           0.SB.1040         Implementation of traffic diversion for PERE westbound           0.SB.1050         Installation of RC structure from CH114.648 to CH67           0.SB.1070         Backfilling for South Shaft at Proposed Road D1           0.SB.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           0.SB.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carrian 0.SB.1100           0.SB.1100         Diversion of existing underground utilities and services (incl. DN1800 drain 0.SB.1110           0.SB.1110         Installation of RC and excavation of North Shaft at Sa Po Road Or CONStruction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carrian 0.SB.1110           0.SB.1110         Installation of partial pipe pile and sheet pile of North Shaft at Sa Po Road or RIBM diversion 0.SB.1110           0.SB.1120         Construction of road diversion of Sa Po Road (TTA Sc		234 1518	208d	26d	27-Aug-20 31-Jul-20	17-Jun-21 25-Sep-24	25-Sep-25 11-Dec-20	30-Jun-26 25-Sep-24	1498	-								
D.S.B.1000         Liaison/coordinate with utility and service undertakings on diversion works (           D.S.B.1010         Expose and install protect/support system for existing underground utilities.           D.S.B.1020         Installation of sheet piles for South Shaft and construction of traffic deck at I           D.S.B.1030         Construction of road diversion for PERE westbound diversion (TTA Scheme           D.S.B.1030         Construction of radic diversion for PERE westbound           D.S.B.1040         Implementation of traffic diversion for PERE westbound           D.S.B.1050         Installation of ELS and excavation for South Shaft at Proposed Road D1           D.S.B.1060         Construction of RC structure from CH114.648 to CH67           D.S.B.1070         Backfilling for South Shaft at Proposed Road D1           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carrian 0.58.1100           Diversion of existing underground utilities and services (incl. DN1800 drain 1.558.1110         Installation of partial pipe pile and sheet pile of North Shaft at Sa Po Road for RTBM drive-in 0.58.1120           Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carrian 0.58.1130         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road for RTBM drive-in 0.58.1130           D.S.B.1130         Installation of ELS and excavation for Intermed		1138			31-Jul-20	11-Sep-23		27-Dec-23										
D.S.B.1010         Expose and install protect/support system for existing underground utilities.           D.S.B.1020         Installation of sheet piles for South Shaft and construction of traffic deck at I           D.S.B.1020         Installation of sheet piles for South Shaft and construction of traffic deck at I           D.S.B.1030         Construction of road diversion for PERE westbound diversion (TTA Scheme           D.S.B.1040         Implementation of traffic diversion for PERE westbound           D.S.B.1050         Installation of ELS and excavation for South Shaft at Proposed Road D1           D.S.B.1060         Construction of RC structure from CH114.648 to CH67           D.S.B.1070         Backfilling for South Shaft at Proposed Road D1           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carrian)           D.S.B.1090         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carrian)           D.S.B.1100         Diversion of existing underground utilities and services (incl. DN1800 drain)           D.S.B.1101         Installation of partial pipe pile and sheet pile of North Shaft at Sa Po Road for RTBM drive-in)           D.S.B.1102         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carrian)           D.S.B.1101         Installation of Remaining ELS and excavation of North Shaft at Sa Po R		180	180d	0d	31-Jul-20	26-Jan-21	29-Dec-20	26-Jun-21	151	2								
D.S.B.1030         Construction of road diversion for PERE westbound diversion (TTA Schemer D.S.B.1040           Implementation of traffic diversion for PERE westbound           D.S.B.1050           Installation of ELS and excavation for South Shaft at Proposed Road D1           D.S.B.1060         Construction of RC structure from CH114.648 to CH67           D.S.B.1070         Backfilling for South Shaft at Proposed Road D1           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carrian           D.S.B.1100         Diversion of existing underground utilities and services (incl. DN1800 drain           D.S.B.1101         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.S.B.1102         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carrian           D.S.B.1103         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road           D.S.B.1104         Ground improvement works at North Shaft at PERE westbound of or b           D.S.B.1105         Installation of ELS and excavation for Intermediate Shaft at PERE westbound of b           D.S.B.1160         Ground improvement works at Intermediate Shaft at PERE westbound for b		91	84d	7d	07-Dec-20	01-Apr-21	06-May-21	23-Aug-21	115	1								
D.S.B.1040         Implementation of traffic diversion for PERE westbound           D.S.B.1050         Installation of ELS and excavation for South Shaft at Proposed Road D1           D.S.B.1060         Construction of RC structure from CH114.648 to CH67           D.S.B.1070         Backfilling for South Shaft at Proposed Road D1           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carrian           D.S.B.1100         Diversion of existing underground utilities and services (incl. DN1800 drain           D.S.B.1110         Installation of partial pipe pile and sheet pile of North Shaft at Sa Po Road           D.S.B.1100         Diversion of road diversion of Sa Po Road (TTA Scheme A2, inclu. carrian           D.S.B.1101         Installation of road diversion of Sa Po Road (TTA Scheme A2, inclu. carrian           D.S.B.1120         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carrian           D.S.B.1130         Installation of ELS and excavation of North Shaft at Sa Po Road for RTBM drive-in           D.S.B.1140         Ground improvement works at North Shaft at PERE westbound of b           D.S.B.1160         Ground improvement works at Intermediate Shaft at PERE westbound of b <td< td=""><td></td><td>89</td><td>75d</td><td>14d</td><td>12-Jan-21</td><td>07-May-21</td><td>12-Jan-21</td><td>07-May-21</td><td>0</td><td>1</td><td></td><td>▋┡</td><td></td><td></td><td></td><td></td><td></td><td>(    </td></td<>		89	75d	14d	12-Jan-21	07-May-21	12-Jan-21	07-May-21	0	1		▋┡						(
D.S.B.1050         Installation of ELS and excavation for South Shaft at Proposed Road D1           D.S.B.1060         Construction of RC structure from CH114.648 to CH67           D.S.B.1070         Backfilling for South Shaft at Proposed Road D1           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriar)           D.S.B.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriar)           D.S.B.1100         Diversion of existing underground utilities and services (incl. DN1800 drain)           D.S.B.1101         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.S.B.1102         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriar)           D.S.B.1103         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road for RTBM drive-in           D.S.B.1140         Ground improvement works at North Shaft at PERE westbound of br           D.S.B.1160         Ground improvement works at Intermediate Shaft at PERE westbound for b           D.S.B.1170         Conduct seismic geophysical survey for PERE and other site investigation over the steel investigation over the steel investigation over the steel investingatin over steel investigation over steel investing at	ne B1)	89	75d	14d	08-May-21	23-Aug-21	08-May-21	23-Aug-21	0	1			4					(
D.S.B.1060         Construction of RC structure from CH114.648 to CH67           D.S.B.1070         Backfilling for South Shaft at Proposed Road D1           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           D.S.B.1080         Installation of road diversion of Sa Po Road (TTA Scheme A1, incl. carriar)           D.S.B.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriar)           D.S.B.1100         Diversion of existing underground utilities and services (incl. DN1800 drain)           D.S.B.1101         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.S.B.1102         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriar)           D.S.B.1120         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriar)           D.S.B.1130         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road for RTBM drive-in           D.S.B.1140         Ground improvement works at North Shaft at PERE westbound of pole.           D.S.B.1160         Ground improvement works at Intermediate Shaft at PERE westbound for b           D.S.B.1170         Conduct seismic geophysical survey for PERE and other site investigation of D.S.B.1180           Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we S.B.		0	0d	0d		23-Aug-21		23-Aug-21	0	1					7			
D.S.B.1070         Backfilling for South Shaft at Proposed Road D1           D.S.B.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           DESTRIAN         SUBWAY SB-01 UNDER PERE AND SA PO ROAD USING T           D.S.B.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriag)           D.S.B.1010         Diversion of existing underground utilities and services (incl. DN1800 drain           D.S.B.1100         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.S.B.1101         Installation of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriag)           D.S.B.1102         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriag)           D.S.B.1103         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road (DSB.1140           Ground improvement works at North Shaft at Sa Po Road for RTBM drive-in         D.SB.1160           D.S.B.1105         Installation of ELS and excavation for Intermediate Shaft at PERE westbound of br           D.S.B.1160         Ground improvement works at Intermediate Shaft at PERE westbound for b           D.S.B.1170         Conduct seismic geophysical survey for PERE and other site investigation of D.SB.1180           Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we use D.SB.1190         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1		104	132d	12d	26-May-22	28-Sep-22			0	1								
D.SB.1080         Installation of steelworks, ABWF, other facilities, lift and other E&M installation           DESTRIAN         SUBWAY         SB-01         UNDER PERE AND SA PO ROAD USING T           D.SB.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriand)         Stallation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.SB.1100         Diversion of existing underground utilities and services (incl. DN1800 drain         Sch.110         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.SB.1100         Installation of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriand)         Sch.1120         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road           D.SB.1130         Installation of ELS and excavation for Intermediate Shaft at PERE westbourd         O.SB.1160         Ground improvement works at Intermediate Shaft at PERE westbourd for b           D.SB.1170         Conduct seismic geophysical survey for PERE and other site investigation of SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE westbourd for b           D.SB.1180         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1		126	114d	12d	29-Sep-22	03-Mar-23	29-Sep-22	03-Mar-23	0	1								[
DESTRIAN         SUBWAY         SB-01         UNDER         PERE AND         SA PO ROAD         USING T           0.SB.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriar)         Diversion of existing underground utilities and services (incl. DN1800 drain)           0.SB.1100         Diversion of existing underground utilities and services (incl. DN1800 drain)           0.SB.1101         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           0.SB.1102         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriar)           0.SB.1103         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road           0.SB.1104         Ground improvement works at North Shaft at Sa Po Road for RTBM drive-in           0.SB.1105         Installation of ELS and excavation for Intermediate Shaft at PERE westbound for b           0.SB.1106         Ground improvement works at Intermediate Shaft at PERE westbound for b           0.SB.1107         Conduct seismic geophysical survey for PERE and other site investigation of 0.SB.1180           0.SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we 0.SB.1190           Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1	tion	78	64d 130d	14d	04-Mar-23	09-Jun-23	04-Mar-23	09-Jun-23	0	1								[
D.SB.1090         Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriar)           D.SB.1100         Diversion of existing underground utilities and services (incl. DN1800 drain)           D.SB.1100         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.SB.1120         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriar)           D.SB.1120         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriar)           D.SB.1130         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road           D.SB.1140         Ground improvement works at North Shaft at Sa Po Road for RTBM drive-in           D.SB.1150         Installation of ELS and excavation for Intermediate Shaft at PERE westbound or b.SB.1160           Ground improvement works at Intermediate Shaft at PERE westbound for b         D.SB.1170           Conduct seismic geophysical survey for PERE and other site investigation vol.SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we ND.SB.1180           D.SB.1190         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1		156 1428	1300	26d	04-Mar-23 29-Oct-20	11-Sep-23 25-Sep-24	21-Jun-23 11-Dec-20	27-Dec-23 25-Sep-24	8/	1						┿		<u> </u>
D.SB.1100         Diversion of existing underground utilities and services (incl. DN1800 drain           D.SB.1100         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.SB.1110         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.SB.1120         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carri           D.SB.1130         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road           D.SB.1140         Ground improvement works at North Shaft at Sa Po Road for RTBM drive-in           D.SB.1150         Installation of ELS and excavation for Intermediate Shaft at PERE westbourd           D.SB.1160         Ground improvement works at Intermediate Shaft at PERE westbourd for b           D.SB.1170         Conduct seismic geophysical survey for PERE and other site investigation voltable.           D.SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we           D.SB.1190         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1		52	46d	6d	29-Oct-20	30-Dec-20	11-Dec-20	16-Feb-21	37	1						+		
D.SB.1110         Installation of partial pipe pile and sheet pile of North Shaft and traffic deck.           D.SB.1120         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carri           D.SB.1130         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road           D.SB.1130         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road           D.SB.1130         Installation of ELS and excavation of North Shaft at Sa Po Road           D.SB.1140         Ground improvement works at North Shaft at Sa Po Road for RTBM drive-in           D.SB.1150         Installation of ELS and excavation for Intermediate Shaft at PERE westbound           D.SB.1160         Ground improvement works at Intermediate Shaft at PERE westbound for b           D.SB.1170         Conduct seismic geophysical survey for PERE and other site investigation volumes and shaft at PERE westbound for b           D.SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we volume volumes and volume volumes of RTBM towards North Shaft at Sa Po Road from CH57 to CH1		130	118d	12d	31-Dec-20	16-Jun-21	17-Feb-21	30-Jul-21	37	1								
D.SB.1120         Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carri D.SB.1130         Installation of Remaining ELS and excavation of North Shaft at Sa Po Road Ground improvement works at North Shaft at Sa Po Road for RTBM drive-in D.SB.1150         Installation of ELS and excavation for Intermediate Shaft at PERE westbourd D.SB.1160         Ground improvement works at Intermediate Shaft at PERE westbourd D.SB.1160         Ground improvement works at Intermediate Shaft at PERE westbourd D.SB.1170         Conduct seismic geophysical survey for PERE and other site investigation of D.SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we D.SB.1190         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1		40	37d	3d	17-Jun-21	03-Aug-21	31-Jul-21	15-Sep-21	37	1				-				
O.SB.1140         Ground improvement works at North Shaft at Sa Po Road for RTBM drive-in           O.SB.1150         Installation of ELS and excavation for Intermediate Shaft at PERE westbound           O.SB.1160         Ground improvement works at Intermediate Shaft at PERE westbound for b           O.SB.1170         Conduct seismic geophysical survey for PERE and other site investigation v           O.SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we           O.SB.1190         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1		52	46d	6d	04-Aug-21	05-Oct-21	16-Sep-21	18-Nov-21	37	1								
O.SB.1150         Installation of ELS and excavation for Intermediate Shaft at PERE westbourd           O.SB.1160         Ground improvement works at Intermediate Shaft at PERE westbound for b           O.SB.1170         Conduct seismic geophysical survey for PERE and other site investigation v           O.SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we           O.SB.1190         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1	d	116	104d	12d	06-Oct-21	25-Feb-22	19-Nov-21	11-Apr-22	37	1						₩.		
O.SB.1160         Ground improvement works at Intermediate Shaft at PERE westbound for b           0.SB.1170         Conduct seismic geophysical survey for PERE and other site investigation v           0.SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we           0.SB.1190         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1	in	26	24d	2d	26-Feb-22	28-Mar-22	12-Apr-22	17-May-22	37	1						<b>-</b>		
D.SB.1170         Conduct seismic geophysical survey for PERE and other site investigation of 0.SB.1180           Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE we 0.SB.1190         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1	und and tunneling setup	78	72d	6d	24-Aug-21	25-Nov-21	24-Aug-21	25-Nov-21	0	1				-				
D.SB.1180         Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE web.           D.SB.1190         Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1	break-in	27	24d	3d	27-Nov-21	30-Dec-21	27-Nov-21	30-Dec-21	0	1								
0.SB.1190 Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH1	works	26	24d	2d	31-Dec-21	31-Jan-22	25-Feb-22	26-Mar-22	44	1					•	•		
	vestbound	70	64d	6d	31-Dec-21	26-Mar-22	31-Dec-21	26-Mar-22	0	1					-			
CR 1200 Diamontling of DTRM and ramoval from Intermediate Shoft at DERE weather	17 (38m, 1.5m/day)	60	48d	12d	27-Mar-22	25-May-22	27-Mar-22	25-May-22	0	2							•	
0.SB.1200 Dismantling of RTBM and removal from Intermediate Shaft at PERE westbo	ound	54	52d	2d	26-May-22	29-Jul-22	26-May-22	29-Jul-22	0	1							-	
0.SB.1210 Installation of horizontal pipe pile and excavation from CH14 to CH17 (74nd		43	37d	6d	26-May-22	16-Jul-22	26-May-22	16-Jul-22	0	1							<b>-</b>	
0.SB.1220 Construction of RC structure at Intermediate Shaft at PERE westbound from		36	30d	6d	30-Jul-22	09-Sep-22	30-Jul-22	09-Sep-22	0	1								<u> </u>
0.SB.1230 Backfilling for Intermediate Shaft at PERE westbound and reinstatement of	f existing road at PERE westbound	48	42d	6d	13-Sep-22	09-Nov-22	13-Sep-22		0	1								<b>_</b>
0.SB.1240 Remove TTA and resume traffic at PERE westbound 0.SB.1250 Construction of RC structure at North Shaft at Sa Po Road and from CH151	to CHE7	0 260	0d 236d	0d 24d	18-Jul-22	09-Nov-22 03-Jun-23	18-Jul-22	09-Nov-22 03-Jun-23	0	1								
0.SB.1260 Backfilling for North Shaft at Sa Po Road		52	46d	6d	05-Jun-23	05-Aug-23	05-Jun-23		0	1								
0.SB.1270 Installation of ELS and excavation for remaining staircase and escalator tro	ough structure	40	33d	6d	07-Aug-23	21-Sep-23			-	1	a							[
0.SB.1280 Construction of remaining staircase and escalator trough structure and back	ckfilling	78	64d	14d	22-Sep-23	27-Dec-23	22-Sep-23	27-Dec-23	0	1								
0.SB.1290 Installation of steelworks, ABWF, other facilities, lift, escalator and other E&	&M installation	221	200d	21d	28-Dec-23	25-Sep-24	28-Dec-23	25-Sep-24	0	1								
0.SB.1300 Planned Completion of Pedestrian Subway SB-01 (Related to Section 12)		0	Od	0d		25-Sep-24		25-Sep-24	0	1								
ISTRUCTION OF ELEVATED WALKWAY LW-02		1153			31-Jul-20	26-Sep-23	07-Nov-20	26-Sep-23	0									
R 10		206			07-Nov-20	24-Jul-21	07-Nov-20		0	1				<b>.</b>				L
DLW.1080 Pre-drilling works (2 nos, 1 rig)		35	33d	2d	07-Nov-20	17-Dec-20	07-Nov-20			1		17L						
DLW.1090         Piling works for bored piles (2nos, 2200dia x 67m, 1 rig)           DLW.1100         Installation of FLS and even pile concentration (272 Fm2 even)	(1 team)	80	75d	5d	18-Dec-20	31-Mar-21	18-Dec-20	31-Mar-21	0	1								
D.LW.1100         Installation of ELS and excavation for pile cap construction (273.5m3 exca, D.LW.1110           Construction of RC structure (pile cap & pier column) (149m3, 1 team)	, i teani)	26	22d 53d	4d	01-Apr-21 07-May-21	06-May-21 24-Jul-21	01-Apr-21 07-May-21	06-May-21 24-Jul-21	0	1		<b>.</b>				++-+		
R 9		206	550	120	20-Oct-20	24-Jul-21 07-Jul-21	07-May-21 07-Nov-20	24-Jul-21 24-Jul-21	15	1				F				
D.LW.1000 Pre-drilling works (2 nos, 1 rig)		35	33d	2d	20-Oct-20	30-Nov-20	07-Nov-20	17-Dec-20	15	1								
D.LW.1010 Piling works for bored piles (2nos, 2200dia x 67m, 1 rig)		80	75d	20 5d	01-Dec-20	10-Mar-21	18-Dec-20	31-Mar-21	15	1		F				+		
D.LW.1020 Installation of ELS and excavation for pile cap construction (520.5m3 exca,	. 1 team)	26	22d	4d	11-Mar-21	17-Apr-21	01-Apr-21			1			4					
0.LW.1030 Construction of RC structure (pile cap & pier column) (184m3, 1 team)	,	65	53d		19-Apr-21	07-Jul-21	07-May-21		15	1								
DTBRIDGE (PIER 9 TO PIER 10)		323	oou	120	01-Apr-21	17-Feb-22		13-Sep-22					-					·
D.LW.1040 Piling works for temp. pre-bored H-piles (12 nos, 610dia x 69m, 2 rigs)		52	42d	10d	01-Apr-21	22-May-21	04-Jun-21	-	64	2			- <u> </u>					
D.LW.1050         Installation and erecting temp. working platform		78	52d	26d	26-Jul-21	27-Oct-21	26-Jul-21	27-Oct-21	0	1				<b> -</b> =	₩₽.			
0.LW.1060 Construction of RC bridge structure (1079m3, 4 teams)		65	50d	15d	28-Oct-21	14-Jan-22	28-Oct-21	14-Jan-22	0	1					-	<b>#</b>		
0.LW.1070 Prestressing works		26	26d	0d	15-Jan-22	17-Feb-22	12-Aug-22	13-Sep-22		1						<b>†</b> =,		
R 11		433			31-Jul-20	06-Oct-21	27-Feb-21									ļ		
DLW.1120 Liaison/coordinate with adjacent project for TTA arrangement		90	90d	0d	31-Jul-20	28-Oct-20	27-Feb-21			2								
DLW.1130 Implementation of TTA		7	7d	0d 2d	18-Nov-20	25-Nov-20	20-May-21	-		1		Ci_						
DLW 1140 Pre-drilling works (4 nos, 1 rig)			46d	2d	26-Nov-20 25-Jan-21	23-Jan-21	28-May-21	24-Jul-21	142	1				<b>.</b>	+	h		
D.LW.1150         Piling works for bored piles (4nos, 1800dia x 78m, 1 rig)           D.LW.1160         Installation of ELS and excavation for pile cap construction (319.9m3 exca,		48		101	ZO-Jan-Zi	18-Jun-21	26-Jul-21	06-Dec-21	142						111 C 1			. 1
D.LW.1170 Construction of RC structure (pile cap & pier column) (138m3, 1 team)	1 team)	48 112	100d	12d 4d		20- lul-21	07-00-21	08- lan 22	142	1		1 i l		-				
DTBRIDGE (PIER 10 TO PIER 11)	, 1 team)	48 112 26	100d 22d	4d	19-Jun-21	20-Jul-21 06-Oct-21	07-Dec-21 10-Jan-22	08-Jan-22 29-Mar-22	142 142	1								
D.LW.1180 Implementation of TTA for Concorde Road roundabout and erecting temp.	, 1 team)	48 112	100d			20-Jul-21 06-Oct-21 14-Mar-22	07-Dec-21 10-Jan-22 30-Mar-22	29-Mar-22	142	1 1 1				╘╴				
		48 112 26 65	100d 22d	4d	19-Jun-21 21-Jul-21	06-Oct-21	10-Jan-22 30-Mar-22	29-Mar-22	142 147	1 1 1 1				╘╼				
▼ Milestone     Planned W       ▼ Critical Milestone     ▼ Summary		48 112 26 65 129	100d 22d 53d	4d 12d	19-Jun-21 21-Jul-21 07-Oct-21	06-Oct-21 14-Mar-22	10-Jan-22 30-Mar-22	29-Mar-22 13-Sep-22	142 147	1 1 1 1				- <b>-</b> L_				

(Page 3 of 5)

Build King – STEC Joint Venture

2023 J J A S O N D				I.C.M	2024 2024 2024 2024 2024 2024 2024 2024							20	25		2026					
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KTD.LW.1200         KTD.LW.1210           KTD.LW.1210         FOOTBRIDGE           KTD.LW.1220         I           KTD.LW.1230         E           KTD.LW.1240         KTD.LW.1240           KTD.LW.1250         F	Erecting temp. working platform at roadside Construction of RC bridge structure (434m3, 2 teams) Prestressing works (PIER 11 TO PIER 12)	26 65	(d) 24d 65d	(d) 2d	22-Oct-21	20-Nov-21	23-Apr-22	25-May-22	Float 147	1							J		NDJFM	
KTD.LW.1210         F           FOOTBRIDGE         KTD.LW.1220         I           KTD.LW.1230         E         KTD.LW.1240         I           KTD.LW.1240         KTD.LW.1240         I         I	Prestressing works		65d																	
FOOTBRIDGE           KTD.LW.1220         I           KTD.LW.1230         I           KTD.LW.1240         I           KTD.LW.1240         I           KTD.LW.1250         I	•			0d	22-Nov-21	11-Feb-22	26-May-22	11-Aug-22	147	1					4					
KTD.LW.1220         I           KTD.LW.1230         E           KTD.LW.1240         C           KTD.LW.1240         F	(PIER 11 TO PIER 12)	26	26d	0d	12-Feb-22	14-Mar-22	12-Aug-22	13-Sep-22		1						-C	٩			
KTD.LW.1230 F KTD.LW.1240 KTD.LW.1250 F		122			22-Oct-21	19-Mar-22	14-Apr-22	13-Sep-22		1							<b>T</b>			÷
KTD.LW.1240 ( KTD.LW.1250 F	Implementation of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway	12	12d	0d	22-Oct-21	04-Nov-21	14-Apr-22	30-Apr-22	142	1										1
KTD.LW.1250 F	Erecting temp. working platform at roadside	26	24d	2d	05-Nov-21	04-Dec-21	03-May-22	02-Jun-22	142	1										
	Construction of RC bridge structure (311m3, 2 teams) Prestressing works and bearing installation works	58 26	58d 26d	0d 0d	06-Dec-21 18-Feb-22	17-Feb-22 19-Mar-22	04-Jun-22 12-Aug-22	11-Aug-22 13-Sep-22	142 142	1							<u></u>			
	STAIRCASE, SOFT LANDSCAPING & OTHER WORKS	787	200	Uu	25-Jan-21	26-Sep-23	12-Aug-22 17-Nov-21	26-Sep-23	0	1			++		+	╞╋╋┷┙				<u> </u>
	Pre-drilling works (6 nos, 2 rig)	48	46d	2d	25-Jan-21	24-Mar-21	17-Nov-21	14-Jan-22	237	1			-							1
	Piling works for pre-bored H-piles for PC1, PC2, PC3 and PC4 (19 nos, 610dia x 70m, 2 rigs)	78	72d	6d	15-Jan-22	23-Apr-22	15-Jan-22	23-Apr-22	0	1		-								(*** <mark>*</mark> *
	Installation of ELS and excavation for pile caps construction (PC1, PC2, PC3 and PC4, 379.1m3 exca, 1 team)	38	34d	4d	25-Apr-22	10-Jun-22	25-Apr-22	10-Jun-22	0	1							<b>د ب</b>			
KTD.LW.1290	Construction of RC structures (inclu. pile caps, pier column, lift shaft, staircase, etc.)	78	64d	14d	11-Jun-22	13-Sep-22	11-Jun-22	13-Sep-22	0	1							╘╸	<b></b>		
KTD.LW.1300 I	Lift and other E&M installation, testing and commissioning	156	144d	12d	14-Sep-22	23-Mar-23	16-Nov-22	30-May-23	52	1								-	(	
	Construction of roof, planter, landscape softworks, other facilities and ABWF works for whole walkway	208	182d	26d	14-Sep-22	30-May-23	14-Sep-22	30-May-23	0	1								-		Ŧ
	Planned Completion of Landscaped Elevated Walkway LW-02 (Related to Section 1)	0	Od	0d		30-May-23		30-May-23	0	1							L			Ē
	Advance Completion of Landscaped Elevated Walkway LW-02 to Specific Contract Completion Date (Section 1)	101	101d	0d	30-May-23	26-Sep-23	30-May-23	26-Sep-23	0	1										Τ
	ON OF BOX CULVERT B1	364	00.1		31-Jul-20	29-Jul-21	20-Oct-20	29-Jul-21	0											
	Prepare/submission of temporary EVA diversion scheme with SCL	60	60d	b0	31-Jul-20	28-Sep-20	02-Nov-20	31-Dec-20	94	2										
	Consult/liaison/vetting/approval of temporary EVA diversion scheme with SCL  F B1 (CHB1 364.584 TO CHB1 168.00)	120 225	120d	0d	30-Aug-20 20-Oct-20	27-Dec-20 29-Jul-21	02-Dec-20 13-Nov-20	31-Mar-21 29-Jul-21	94	2					,					
	Installation of ELS and excavation for CHB1 364.584 to CHB1 348.00 (24m ELS, 523.8m3 exca, 2 team)	225	24d	2d	20-Oct-20 20-Oct-20	19-Nov-20	13-Nov-20	12-Dec-20	20	1		41								
	Installation of ELS and excavation for CHB1 348.00 to CHB1 246.00 (2411 ELS, 323.010 Exca, 2 team)	78	72d	20 6d	02-Nov-20	03-Feb-21	25-Nov-20	02-Mar-21	20	1		┥		- <b> </b> -	-+		+			
	Construction of RC box culvert structure (1435m3, 4 teams)	78	74d	2d	05-Jan-21	16-Apr-21	28-Jan-21	11-May-21	20	1										
	Backfilling from CHB1 364.584 to CHB1 216.00 (10043m3, 4 teams)	78	74d	2d	25-Mar-21	06-Jul-21	26-Apr-21	29-Jul-21	20	1			-							
KTD.BC.1060	Excavation for CHB1 216.00 to CHB1 168.00 by ELS/open-cut/other accepted method (4600m3, 2 teams)	32	32d	7d	01-Apr-21	13-May-21	01-Apr-21	13-May-21	0	1			r=							
KTD.BC.1070 (	Construction of RC box culvert structure from CHB1 216.00 to CHB1 168.00 (370m3, 3 teams)	52	48d	4d	19-Apr-21	21-Jun-21	19-Apr-21	21-Jun-21	0	1			4							
KTD.BC.1080	Backfilling from CHB1 216.00 to CHB1 168.00 (3800m3, 4 teams)	52	48d	4d	28-May-21	29-Jul-21	28-May-21	29-Jul-21	0	1					-					
	F B1 (CHB1 168.00 TO CH. 89.123)	225			20-Oct-20	29-Jul-21	20-Oct-20	29-Jul-21	0	1					'					
	Installation of ELS and excavation for CHB1 115.392 to CHB1 168.00 (114m ELS, 3400m3 exca, 2 teams)	51	33d	6d	20-Oct-20	18-Dec-20	20-Oct-20	18-Dec-20	0	1										
	Encounter CLP cables at CHB1 143.3 to CHB1 131.125 and removal by CLP	12	12d	b0	03-Nov-20	16-Nov-20	03-Nov-20	16-Nov-20	0	1							+	<mark>-</mark> -		
	Construction of RC box culvert structure for CHB1 115.392 to CHB1 168.00 (434m3, 2 teams) Backfilling from CHB1 168.00 to CHB1 115.392 and construct temporary diversion EVA with facilities (2374m3, 2 teams)	78 52	78d 46d	0d 6d	28-Nov-20 23-Jan-21	05-Mar-21 31-Mar-21	28-Nov-20 23-Jan-21	05-Mar-21 31-Mar-21	0	1										
	Traffic diversion for MTRC EVA of SCL Station and SUA	0	400 0d	0d	ZƏ-JdII-Z I	31-Mar-21 31-Mar-21	ZJ-JdH-ZI	31-Mar-21 31-Mar-21	0	1			ि							
	Installation of ELS and excavation for CHB1 115.392 to CHB1 89.123 (90m ELS, 1860m3 exca, 2 teams)	29	26d	3d	01-Apr-21	10-May-21	01-Apr-21	10-May-21	0	1			5				+			
	Construction of RC box culbert structure for CBB1 115.392 to CHB1 89.123 (236m3, 2 teams)	42	39d	3d	30-Apr-21	21-Jun-21	30-Apr-21	21-Jun-21	0	1										
KTD.BC.1150	Temporary drain. diversion (inclu temporary connection works and breakthrough at upstream)	7	6d	1d	22-Jun-21	29-Jun-21	22-Jun-21	29-Jun-21	0	1										
KTD.BC.1160 (	Construct the remaining RC structure within existing box culvert and abandon the existing box culvert	18	18d	0d	30-Jun-21	21-Jul-21	30-Jun-21	21-Jul-21	0	1										
	Permanent drain. diversion (inclu connection works at upstream)	7	6d	1d	22-Jul-21	29-Jul-21	22-Jul-21	29-Jul-21	0	1				Þ						
	Backfiling from CHB1 115.392 to CHB1 89.123 (1050m3, 2 teams)	49	48d	4d	01-Jun-21	29-Jul-21	01-Jun-21	29-Jul-21	0	1				Ē			L			
	Planned Completion of Box Culvert B1 (Related to Section 8)	0	0d	0d	04.11.00	29-Jul-21	04.11.00	29-Jul-21	0	1				1						
	N OF EXISTING SUBWAY KS10	1129	400.1	0.1				27-Dec-23	0	0										
	Liaison/coordinate with HyD structure/HyD lighting/EMSD and other utility and service undertakings					-	24-Nov-20		0	2										
	Pre-drilling works (1 no, 1 rig) Piling works for pre-bored H-piles (4 nos, 610dia x 75m, 1 rig)	12 48	10d 42d	2d 6d	24-May-21 07-Jun-21	05-Jun-21 03-Aug-21	24-May-21 07-Jun-21	05-Jun-21 03-Aug-21	0	1										
	Installation of ELS for demolition of existing str. & construction of entrance at Road D1 (77m ELS, 900m3 exca, 1 teams)	39	33d	6d	04-Aug-21	17-Sep-21	04-Aug-21	17-Sep-21	0	1				- F	-					
	Demolition of existing subway structures (inclu. ramp and staircase)	78	64d	14d	18-Sep-21	21-Dec-21	18-Sep-21	21-Dec-21	0	1		-			-	la hand				
	Construction of RC structures (inclu. lift shaft, staircase, pump house and etc.) (365m3, 1 team)	104	92d	12d	22-Dec-21	04-May-22	22-Dec-21	04-May-22	0	1										
KTD.MS.1045	Backfiling of ELS to ground level	78	64	14d	05-May-22	06-Aug-22	05-May-22	06-Aug-22	0	1							L-100	<b>-</b>		
KTD.MS.1050 I	Lift and other E&M installation, testing and commissioning	156	156d	0d	08-Aug-22	16-Feb-23	17-Feb-23	26-Aug-23	156	1								-	<b></b>	
KTD.MS.1060	Construction of roof, steelworks, other facilities and ABWF works	312	300d	12d	08-Aug-22	26-Aug-23	08-Aug-22	26-Aug-23	0	1								L- market		
	Planned Completion of modification of existing Subway KS10 (Related to Section 3)	0	0d	0d		26-Aug-23		26-Aug-23	0	1										
	Advance Completion of modification of existing Subway KS10 to Specific Contract Completion Date (Section 3)	100	178d	0d		27-Dec-23		27-Dec-23	0	1										
	ON OF DISTRICT COOLING SYSTEM WORKS (SUBJECTED TO EXCISION)	914			27-Mar-21	26-Sep-23	22-Nov-21	26-Sep-23												
	Liaison/coordinate with utility and service undertakings on connection works of DCS works	180	180d	0d	27-Mar-21	22-Sep-21	22-Nov-21	20-May-22		2										
	Installation of ELS and excavation and construction of DCS pipes from CH80 to CH145 (2 teams) Backfilling for CH80 to CH145 (780m3, 2 teams)	91 39	79d 33d	12d 6d	23-Sep-21 13-Jan-22	12-Jan-22 02-Mar-22	24-Apr-23	11-Aug-23 26-Sep-23	465 465	1						T		<b> </b>		
	Installation of ELS and excavation and construction of DCS pipes from CH170 to CH334 (2 teams)	208	194d	0u 14d	23-Sep-21	02-iviar-22 09-Jun-22	12-Aug-23 21-May-22	20-Sep-23 01-Feb-23	405 192	1										
	Backfilling for CH170 to CH334 (1900m3, 2 teams)	78	72d	6d	10-Jun-22	09-Sep-22	04-Mar-23	09-Jun-23	218	1										_
	Installation of ELS and excavation of temporary pits for construction of DCS works from CH145 to CH170 (1 team)	78	66d	12d	10-Jun-22	09-Sep-22	02-Feb-23	09-May-23	192	1							┕╼╔			
	Construction of chilled water pipes from CH145 to CH170 by trenchless method (inclu DAV and washout pit, 1 team)	78	64d	14d	13-Sep-22	14-Dec-22	10-May-23	11-Aug-23	192	1								╘╺╈	<b>_</b>	
	Backfiling for temporary pits (900m3, 2 teams)	39	33d	6d	15-Dec-22	04-Feb-23	12-Aug-23	26-Sep-23	192	1		111						(TTT	┗━━━	
KTD.DCS.1080	Installation of ELS and excavation and construction of DCS works from CH0 to CH80 (2 teams)	52	40d	12d	10-Jun-23	11-Aug-23	10-Jun-23	11-Aug-23	0	1										
KTD.DCS.1090	T&C of the installed DCS pipes before connection to existing DCS system	26	26d	0d	12-Aug-23	11-Sep-23	28-Aug-23	26-Sep-23	13	1										
KTD.DCS.1100	Backfilling for CH0 to CH80 (960m3, 2 teams)	39	33d	6d	12-Aug-23	26-Sep-23	12-Aug-23	26-Sep-23	0	1										T
KTD.DCS.1110	Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9)	0	0d	0d		26-Sep-23		26-Sep-23	0	1										
RENOVATION	OF EXISTING SUBWAYS KS9 AND KS32	1153			31-Jul-20	26-Sep-23	31-Jul-20	26-Sep-23	0											
	Liasion with UAP project and relevant departments for possession approval/consent	365	365d	0d	31-Jul-20	30-Jul-21	31-Jul-20	30-Jul-21	0	2					<u> </u>					
KTD.RS.1010	Construction of shelter for subways KS9 and KS32	156	130d	26d	31-Jul-21	08-Feb-22	31-Jul-21	08-Feb-22	0	1					—					
KTD.RS.1020 (	Construction of steelworks, other facilities, E&M installation and ABWF works for KS9 and KS32	156	142d	124d	03-Nov-21	17-May-22	03-Nov-21	17-May-22	0	1					<b>L</b> =1	<b></b>		·		

▼ Milestone
▼ Critical Milestone

Critical Work

Planned W...

Summary



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

2023 JJAS	0 N I	DJ	FM	2 A M ,	2024 M J J A S O N D J F M A M								M	20: J	25 JAS	OND	2026 J F M A M J J					
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7																						
		1	Date				Rev	isi	0	n					Che	cked	Ar	prov	/			
		1 <b>-</b> A	ug-2	20	Revi	sic	on 1		_		_	_			С		G	2				
	1	0-C	)ct-2	0	Revi										C		G					
	1	8-N	lov-2	20	Revi	sic	on 3							L	С		G	;				

Activity ID	Activity Name	Dur (d)	Ori. Dur (d)	TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Total Float	Calendar			202 A M J			2022	SOND	JFMAM	2
KTD.RS.1030	Planned Completion of renovation of existing Subways KS9 and KS32 (Related to Section 1)	0	0d	0d		17-May-22		17-May-22		1									-
KTD.RS.1040	Advance Completion of renovation of existing Subways KS9 and KS32 to Specific Contract Completion Date (Section 1)	406	406d	0d	18-May-22	26-Sep-23	18-May-22			1									_
DIVERSION	OF EXISTING RISING MAIN AND DEMOLITION OF EXISTING STRUCTURES AT SITE 2C2 & 2C3	458			16-Sep-20	17-Dec-21	17-Sep-20	17-Dec-21	0		-				-				;
KTD.RM.1000	Liasion with relevant departments for removal of abandoned motorcycles under existing structures at Site 2C2 and 2C3	60	60d	0d	16-Sep-20	14-Nov-20	17-Sep-20	15-Nov-20	1	2	-								;
KTD.RM.1000	Removal of abandoned motorcycles and clearance for demolition works	14	14d	2d	16-Nov-20	01-Dec-20	16-Nov-20	01-Dec-20	0	1									i
KTD.RM.1005	Demolition of existing structures at Site 2C2 and 2C3	78	66d	12d	02-Dec-20	09-Mar-21	02-Dec-20	09-Mar-21	0	1									ł
KTD.RM.1010	Installation of ELS and excavate for construction of twin rising main from CH0 to CH184 (400m ELS, 4059m3 exca, 2 teams)	65	53d	12d	10-Mar-21	03-Jun-21	10-Mar-21	03-Jun-21	0	1									
KTD.RM.1020	Construction of twin rising main from CH0 to CH184 and connect to existing sewage rising main	104	98d	6d	04-Jun-21	07-Oct-21	04-Jun-21	07-Oct-21	0	1				-					1
KTD.RM.1030	Backfilling works and abandon the existing sewage rising main	52	46d	6d	08-Oct-21	08-Dec-21	08-Oct-21	08-Dec-21	0	1									ł
KTD.RM.1040	Planned Completion of diversion and demolition of existing structures at Site 2C2 and 2C3 (Related to Section 5)	0	Od	0d	00 00020	08-Dec-21	00 00(2)	08-Dec-21	0	1					7				1
KTD.RM.1050	Advance Completion of diversion and demolition works to Specific Contract Completion Date (Section 5)	8	8d	Od	09-Dec-21	17-Dec-21	09-Dec-21	17-Dec-21	0	1									
	TION OF ROAD WORKS	1720			31-Jul-20	15-Apr-25	12-Sep-20	30-Jun-25	76		-								-
	TION OF SLIP ROAD S14	1245			31-Jul-20	27-Dec-23	14-Oct-20	27-Dec-23	0										_
KTD.RW.0000		180	180d	0d	31-Jul-20	26-Jan-21	14-Oct-20	11-Apr-21	75	2									i
KTD.RW.1000	Expose and install protect/support system for existing underground utilities and services (incl 132kV and 400kV cables)	104	98d	6d	21-Oct-20	26-Feb-21	04-Jan-21	17-May-21	60	1									1
KTD.RW.1010	Pre-drilling works for all pile caps PC1 to PC7 (9 nos, 1 rig)	40	30d	10d	27-Feb-21	22-Apr-21	18-May-21	06-Jul-21	60	1		┆┝┖═╧							i
KTD.RW.1020	Piling works of pre-bored H-piles (14 nos, 610dia x 70m, 1 rig)	91	85d	6d	23-Apr-21	11-Aug-21	07-Jul-21	23-Oct-21	60	1		[							1
KTD.RW.1030	Installation of ELS and excavation and construction for pile cap PC1 (60m3 exca, 30m3 conc, 1 team)	26	24d	2d	12-Aug-21	10-Sep-21	25-Oct-21	23-Nov-21	60	1				-					
KTD.RW.1040	Construction of temporary supporting system for existing bridge K73	39	34d	5d	11-Sep-21	29-Oct-21	24-Nov-21	11-Jan-22	60	1									
KTD.RW.1050	Demolition of existing bearing wall	26	24d	2d	30-Oct-21	29-Nov-21	12-Jan-22	14-Feb-22		1									ł
KTD.RW.1060	Installation of ELS and excavation and construction for pile cap PC2 (60m3 exca, 30m3 conc, 1 team)	26	24d	2d	30-Nov-21	31-Dec-21	15-Feb-22	16-Mar-22	60	1									:
KTD.RW.1070	Construction of remaining foundation and pier structures (incl. columns, portal beams and etc.) (169m3, 1 team)	52	48d	4d	03-Jan-22	07-Mar-22	17-Mar-22	23-May-22		1									
KTD.RW.1080	Construction of cantilever slab extended from ext. bridge K73 (150m3, 1 team)	39	34d	5d	08-Mar-22	26-Apr-22	24-May-22	09-Jul-22	60	1					5				ł
KTD.RW.1090	Backfilling for pile caps (PC1 and PC2)	26	24d	2d	27-Apr-22	28-May-22	11-Jul-22	09-Aug-22	60	1						F.			1
KTD.RW.1100	Installation of ELS and excavation for Retaining Wall S14 (Bay5-12, 3600m3 exca, 2 team)	90	78d	12d	30-May-22	15-Sep-22	10-Aug-22	26-Nov-22		1									
KTD.RW.1110	Construction of Retaining Wall S14 (Bay5-12, 800m3, 2 teams)	184	172d	12d	16-Sep-22	03-May-23	28-Nov-22	15-Jul-23	60	1							-		i
KTD.RW.1120	Backfilling for Retaining Wall S14 (Bay8-12, 1100m3, 2 teams)	90	78d	12d	04-May-23	19-Aug-23	17-Jul-23	01-Nov-23		1								⊑ <b>u</b>	=
KTD.RW.1130	Piling works for bored piles (20 nos, 1200dia x 70m, 2 rigs)	130	116d	14d	10-Nov-22	21-Apr-23	10-Nov-22	21-Apr-23	0	1									
KTD.RW.1140	Installation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)	52	48d	4d	22-Apr-23	24-Jun-23	22-Apr-23	24-Jun-23	0	1									
KTD.RW.1150	Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)	39	21d	2d	26-Jun-23	10-Aug-23	26-Jun-23	10-Aug-23	0	1									F
KTD.RW.1160	Construction of bridge S14 decking structures (320m3, 1 teams)	32	26d	6d	11-Aug-23	16-Sep-23	11-Aug-23	16-Sep-23	0	1									
KTD.RW.1170	Prestressing works and bearing installation works	26	24d	2d	18-Sep-23	19-Oct-23	29-Sep-23	01-Nov-23	10	1									ł
KTD.RW.1180	Backfilling for Retaining Wall S14 (Bay 1-7, 1800m3, 2 teams)	36	32d	4d	18-Sep-23	01-Nov-23	18-Sep-23	01-Nov-23	0	1									1
KTD.RW.1190	Construction of road pavement, road marking, street and other facilities	46	39d	7d	02-Nov-23	27-Dec-23	02-Nov-23	27-Dec-23	0	1		1-1							
KTD.RW.1200		0	0d	Od		27-Dec-23		27-Dec-23	0	1									1
CONSTRUC	TION OF ROADS D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES	1688			01-Sep-20	15-Apr-25	12-Sep-20	30-Jun-25	76		-							$\rightarrow +$	_
KTD.RW.1220	Construct roadwork, UUs/services & landscape softworks within Part 1 (incl Road L9 and part of Road L16)	563	542d	21d	30-Jul-21	26-Jun-23	02-Nov-21	26-Sep-23	78	1			-	-		·			Ï
KTD.RW.1230	Construct roadwork, UUs/services & landscape softworks within Part 1A (incl Sa Po Road, pedestrian street and Road D1)	153	132d	21d	10-Jun-23	11-Dec-23	26-Jun-23	27-Dec-23	12	1								ų	۲C
KTD.RW.1240	Construct underground utilities/services within Parts 1B, 6A and 7 and remaining works of all Parts	1321	1300d	21d	20-Oct-20	15-Apr-25	02-Jan-21	30-Jun-25	60	1	-								F
KTD.RW.1245	Liasion/coordinate with CLP for new 132kV and 11kV cable laying at Road L16, Part 3 and Crowd Dispersal Route	122	122d	0d	01-Sep-20	31-Dec-20	12-Sep-20	11-Jan-21	11	2	•								Ē
KTD.RW.1250	Construct roadwork and UUs/services within Parts 2 and 10 (incl Crowd Dispersal Route)	270	249d	21d	02-Jan-21	02-Dec-21	05-May-21	29-Mar-22	94	1					<b>.</b>				1
KTD.RW.1260	Construct underground utilities/services within Part 3	275	254d	21d	02-Jan-21	08-Dec-21	12-Jan-21	17-Dec-21	8	1									1
KTD.RW.1270	Construct roadwork and landscape softworks within Part 3 (incl pedestrian streets)	342	321d	21d	09-Dec-21	08-Feb-23	29-Dec-22	24-Feb-24	310	1							·····		Ē
KTD.RW.1280	Construct underground utilities/services within Part 4	156	135d	21d	23-Nov-20	09-Jun-21	12-Dec-20	30-Jun-21	17	1									I
KTD.RW.1290	Construct roadwork and landscape softworks within Part 4 (incl pedestrian street)	156	135d	21d	10-Jun-21	14-Dec-21	17-Aug-23	24-Feb-24	647	1			╘╼╪	-	<b>_</b>				Ē
KTD.RW.1300	Construct roadwork, underground utilities/services within Part 5	312	291d	21d	10-Nov-22	28-Nov-23	07-Dec-22	27-Dec-23	23	1							-		Ë
KTD.RW.1310	Liasion with developer of the sites 2A4, 2A5(B) and 2A10 and construction of drainage and sewage works within Part 6	156	135d	21d	23-Dec-23	08-Jul-24	15-Mar-24	23-Sep-24	65	1									1
KTD.RW.1320	Construct roadwork, remaining UUs/services and landscape softworks within Part 6 (incl remaining Road L16)	222	201d	21d	09-Jul-24	03-Apr-25	24-Sep-24	30-Jun-25	65	1									1
PROJECT ES	STABLISHMENT WORKS	1571			15-Dec-21	03-Apr-26	27-Sep-23	30-Jun-26		2									Ê
KTD.EW.1000	Establishment works for all landscape softworks (except Parts 3, 4 and 6)	365	365d	0d	12-Dec-23	10-Dec-24	28-Dec-23	26-Dec-24	16	2									ł
KTD.EW.1010	Establishment works for landscape softworks within Part 3 (Subj to excision within 416 days)	365	365d	0d	09-Feb-23	08-Feb-24	26-Feb-24			2								╘╼═╤╤═┙	F
KTD.EW.1020	Establishment works for landscape softworks within Part 4 (Subj to excision within 244 days)	365	365d	0d	15-Dec-21	14-Dec-22	26-Feb-24		803	2					t <b>-</b>	·i	<u> </u>		-
KTD.EW.1030	Establishment works for landscape softworks within Part 6	365	365d	0d	04-Apr-25	03-Apr-26	01-Jul-25			2									I
KTD.EW.1040	Establishment works for landscape softworks under Section 1	365	365d	0d	27-Jun-23	25-Jun-24	27-Sep-23	25-Sep-24		2									*
KTD.EW.1050	Planned Contract Completion Date	0	0d	0d		03-Apr-26		30-Jun-26		2	<b>i</b>		·····						
•											i i	i		i				i	-

▼ Milestone  $\nabla$ 

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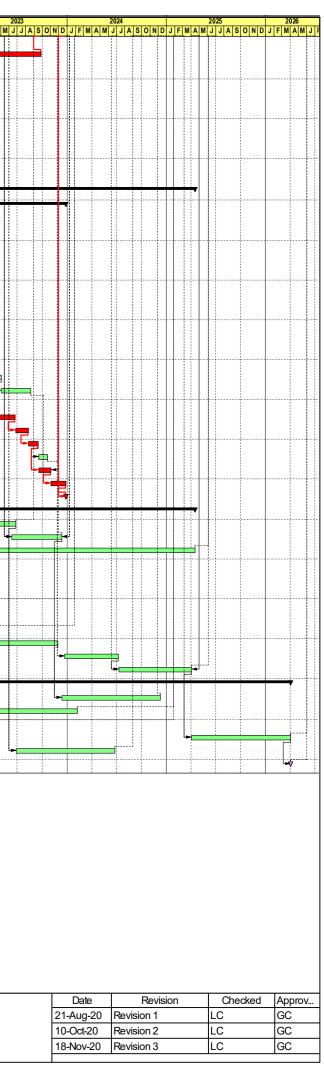
Critical Work

Critical Milestone 

Planned W...

Summary





# Appendix C – Environmental monitoring schedules

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

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

May 2021

Air Quality Monitoring Station AM2(A) Ng Wah Catholic Secondary School AM3 - Sky Tower **Noise Quality Monitoring Station** M4(A) - Le Billionnaire M5(A) - Prince Ritz Contract No. EDO 2/2020 Environmental Monitoring at Kai Tak Development – Stage 5B infrastructure works at the former north apron area Proposed Environmental Monitoring and Weekly Site Inspection Schedule for June 2021

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

June 2021

NOTE:

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

### Air Quality Monitoring Station

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

# **Appendix D – Photographic records**

## Impact Air Quality Monitoring



Measurement setup at AM2(A)



Measurement setup at AM3



Weather Station at the rooftop of Ng Wah Catholic Secondary School

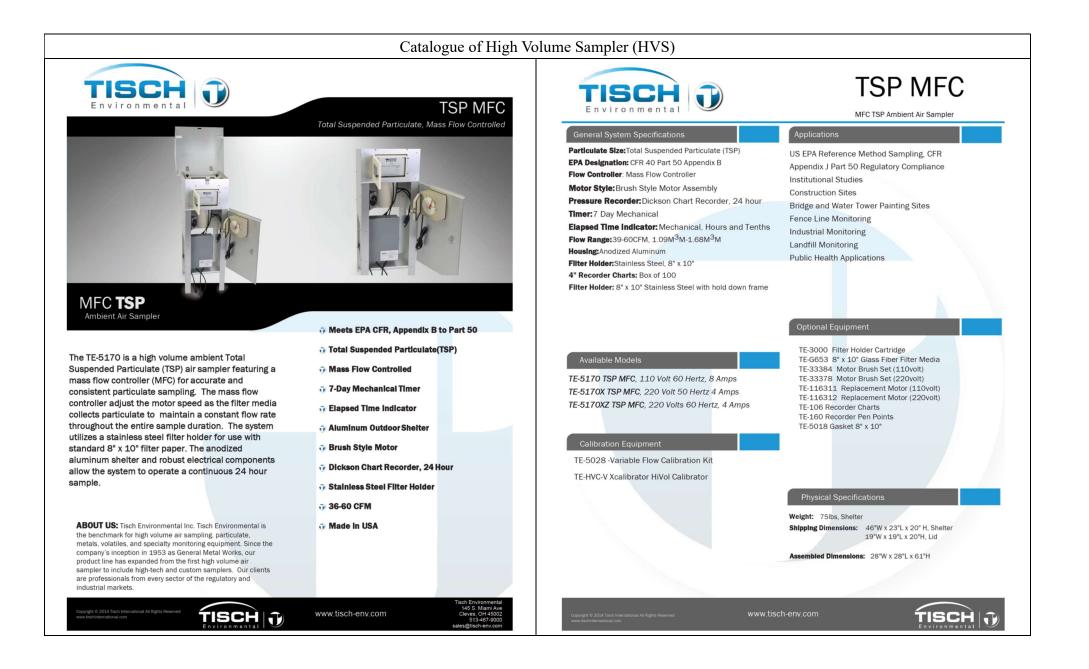
## Impact Noise Monitoring



Measurement setup at M4(A)

Measurement setup at M5(A)

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

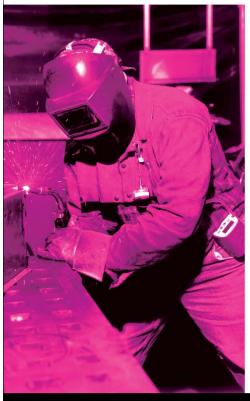


	Air Sampler Ca	alibration Curve Plo (Dickson recorder)	0	on		Air Sampler	Calibration Curve (Dickson reco	Plotting & Calculat [.] der)	ion
Calibration curve ref.	. No. : ATSPC-01-20	021033102 Date of	calibration :	31/03/2021	Calibration curve re	f. No. : ATSPC-0	-2021033104 Da	te of calibration :	31/03/2021
Location :	Sky Tower	Sample	r :	TE-5170X	Location : N	g Wah Catholic Second	lary School Sa	npler :	TE-5170X
Calibration Data		Serial	Numbers :	4687	Calibration Data		Sei	ial Numbers:	4360
Ambient barometric p	pressure, Pa = 754.6		it temperature, Ta =	302.15 ( deg K )	Ambient barometric	pressure, Pa = 754		bient temperature, Ta =	302.15 (deg K)
Qstd Slope, m =	2.04882		tercept, b = $-0.01$		Qstd Slope, m =	2.04882			11270
Calibration Curve	. <u></u>				Calibration Curve	1			1
Plate No.	H ₂ O	Qstd	I	IC	Plate No.	H ₂ O	Qstd	I (abort)	IC (corrected)
18	(in) 7,40	(m ³ /min) 1.319	( chart ) 49.0	( corrected ) 48,49	18	(in) 7,50	(m ³ /min) 1.328	( chart ) 47.0	( corrected ) 46.51
18	6,70	1.256	49.0	48.49	13	6,40	1.328	44.0	43.54
13	4.50	1.030	38.0	37.60	10	4,60	1.041	38.0	37.60
7	3.60	0.922	34.0	33.65	7	3.45	0.903	34.0	33.65
5	2.30	0.738	27.0	26.72	5	2.60	0.784	30.0	29.69
Dickson recorder	Qstd = 1 / m1 [ (1) ( Sqr 75.00 65.00 55.00 45.00 35.00	t ( ( Pav / 760 ) ( 298 / Tav )	))-b1] 36.037	0.2509 0.9974	Dickson recorder	Qstd = 1 / m1 [ (1) (           75.00         (g)           65.00         (g)           55.00         (g)           45.00         (g)           35.00         (g)	Sqrt ( ( Pav / 760 ) ( 298 / '	fav ) ) ) - b1 ]     30.837	5.6156 0.9998
Remark : Q	25.00 $15.00$ $15.00$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.6$ $0.8$ $0.8$ $0.6$ $0.8$ $0.8$ $0.6$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$ $0.8$	qrt ( H ₂ O ( Pa / 760 ) ( 29 ( Pa / 760 ) ( 298 / Ta ) )	Curve numbers are in the TS 08 / Ta ) ) - b ]. ].	SP range ( 1.1 - 1.7 m3 / min ).	Remark :	quirements : (A). $r >$ Qstd ( $m^3 / min$ ) = 1/m IC (corrected) = I [Sq	[ Sqrt ( H ₂ O ( Pa / 760 rt ( ( Pa / 760 ) ( 298 / ]	on Curve Qstd numbers are in the T ) ( 298 / Ta ) ) - b ].	SP range ( 1.1 - 1.7 m3 / min )
F				4	1				A
F Calibrated by :	31/03	/2021 Checke	/	31/03/2021	Calibrated by :	03	/03/2021 Ch	ecked by :	31/03/2021

Calibration Certificate of HVS	
<b>TISCH</b> Environmental Certificate of Calibration Calibration	
Cal. Date:         July 17, 2020         Rootsmeter S/N: 438320         Ta: 296         °K	
Operator:     Jim Tisch     Pa: 753.4     mm Hg       Calibration Model #:     TE-5025A     Calibrator S/N: 0006	
Run         Vol. Init (m3)         Vol. Final (m3)         ATime (m3)         AP         AH           1         1         2         1         1.4300         3.2         2.00           2         3         4         1         1.0100         6.4         4.00           3         5         6         1         0.000         7.9         5.00           4         7         8         1         0.8570         8.8         5.50           5         9         10         1         0.7090         12.8         8.00	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	
Calculations           Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)         Va= ΔVol((Pa-ΔP)/Pa)	
Qstd=     Vstd/ATime     Qa=Va/ATime       Grad=     Vstd/ATime     Call	
$\mathbf{Qstd=1/m}\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Patd}\right)\left(\frac{Tstd}{Ta}\right)}\right)\cdot\mathbf{b}\right) \qquad \mathbf{Qa=1/m}\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)\cdot\mathbf{b}\right)$	
Standard Conditions       Tstd:     298.15 *K       Pstd:     760 mm Hg       Key     US EPA recommends annual recalibration per 1998       AH: calibrator manometer reading (mm Hg)     Ap code of Federal Regulations Part 50 to 51,       Ta: actual absolute temperature (*K)     Appendix BL oparts 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30       b: intercept     m: slope	
Tisch Environmental, Inc.     www.tisch-env.com       145 South Miami Avenue     TOLL FREE: (877)263-7610	
Village of Cleves, OH 45002 FAX: (513)467-9009	

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

The SidePak AMS10 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

#### **Ouick and Easy Reports**

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

#### Power to Spare

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

#### Model AM510 SidePak Personal Aerosol Monitor

Sensitivity Sensor Type
Aerosol Concentration Range

Zero stability

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

90° light scattering,

670 nm laser diode

Flow Rate Range

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

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

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

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

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

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

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

#### Physical External Dimensions

Range

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

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

Input Voltage Range Output Voltage 9 VDC @10 A

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

**Communications Interface** USB 1.1 Type Connector, Instrument

USB Mini-B (socket)

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

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

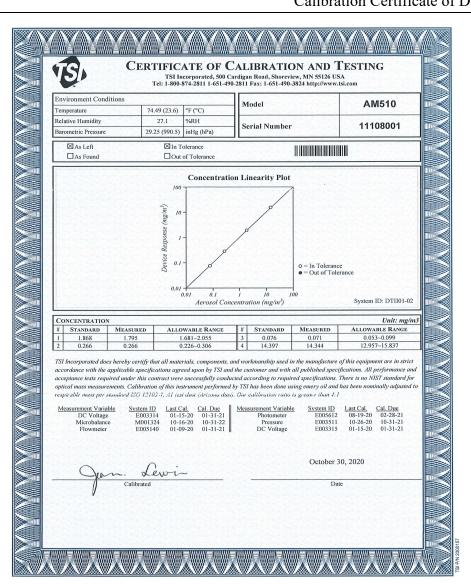
**Battery Performance** 

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)

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

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

#### Objective:

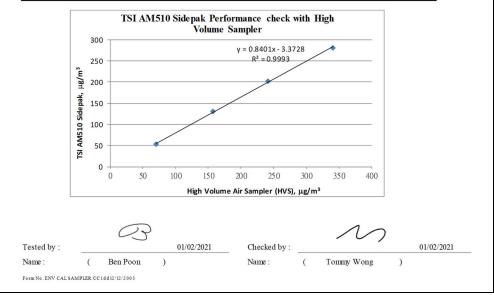
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

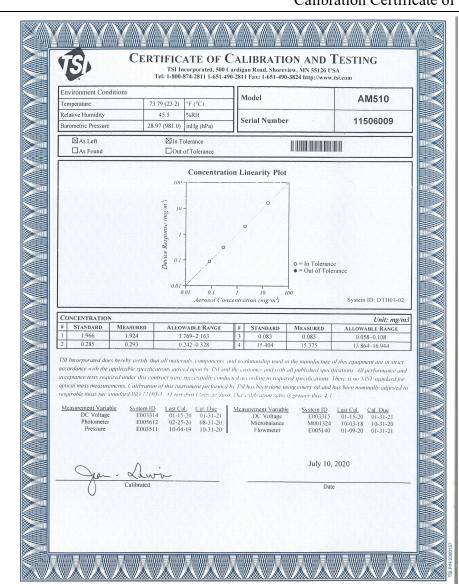
#### Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11108001
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

#### Resust:

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





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

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

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

#### Objective:

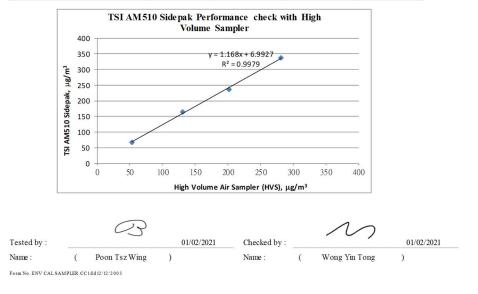
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

#### Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11506009
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

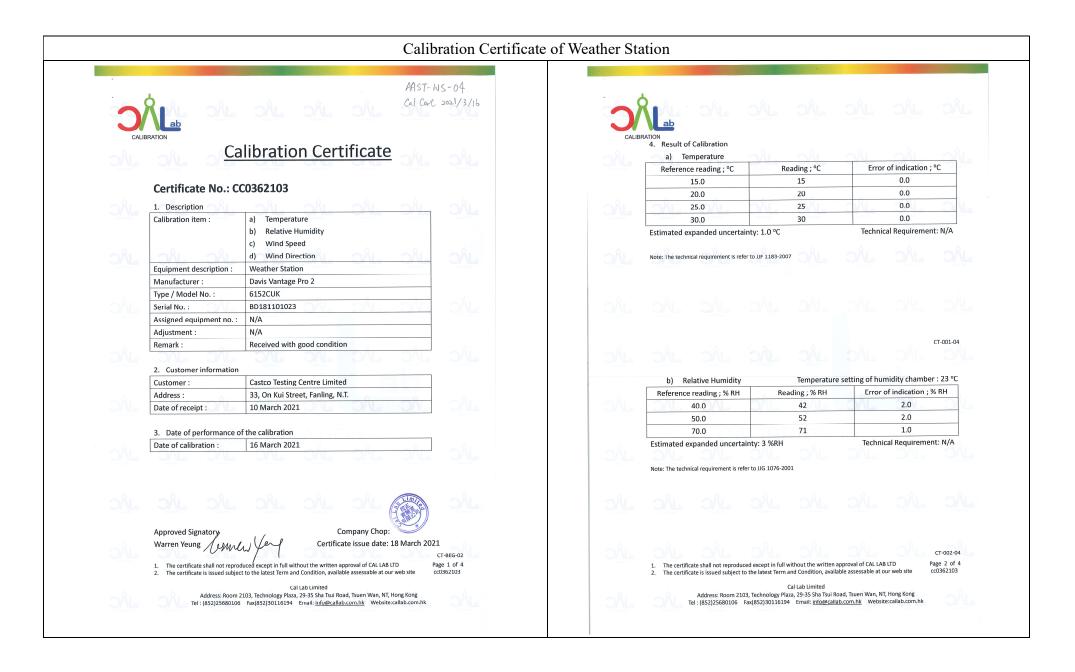
#### Resust:

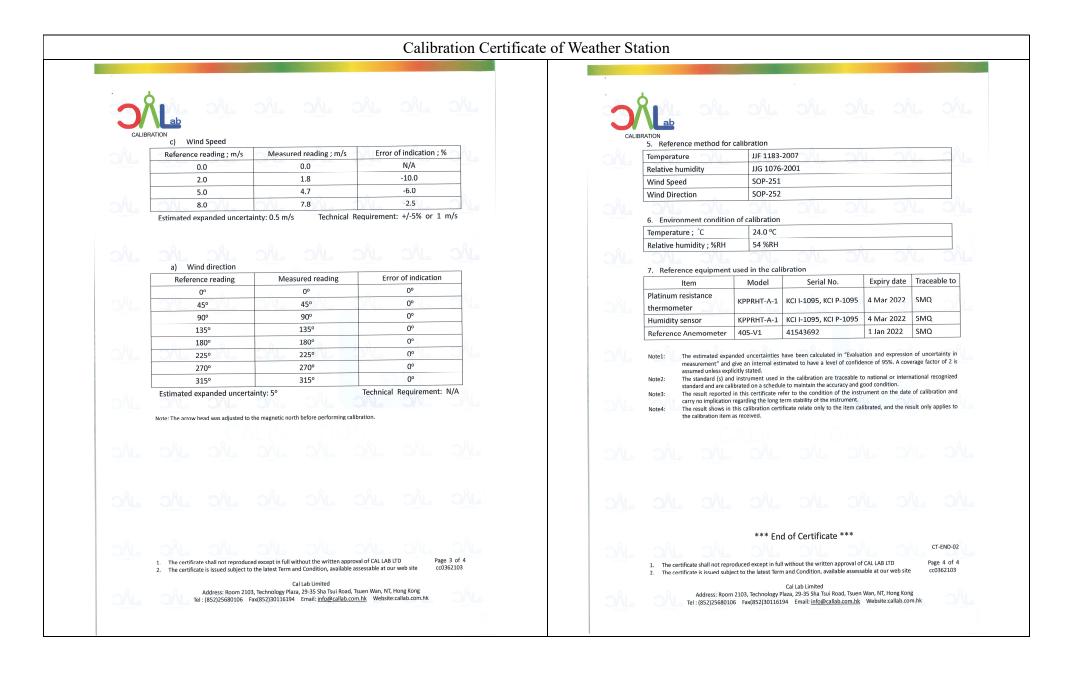
Equipment	Measurement Result, µg/m ³				
TSI AM510 Sidepak	68	165	236	338	
High Volume Air Sampler (HVS)	53	131	202	281	



#### Catalogue of Weather Station 7 Cabled Vantage Pro2™ 6152C Vantage Pro2 & Vantage Pro2 Plus[™] Stations 6162C Ultra Violet (UV) Radiation Index (requires UV sensor) Resolution and Units ..... 0.1 Index Vantage Pro2[™] Range ...... 0 to 16 Index The Vantage Pro2[™] (# 6152C) and Vantage Pro2[™] Plus (# 6162C) cabled weather stations include two components: High)) the Integrated Sensor Suite (ISS) and the console. The ISS contains the sensor interface module (SIM), rain collector, an anemometer, and a passive radiation shield. The Vantage Pro2 console provides the user interface, data display, and calculations. The Vantage Pro2 Plus weather station includes two additional sensors that are optional on the Current Graph Data..... Instant Reading and Hourly Average; Daily, Monthly High Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are powered by an AC-power adapter connected to the console. Batteries can be installed in the console to provide a backup power supply. Use WeatherLink* to let your weather station interface with a computer, log data, and upload Alarm ...... High Threshold from Instant Calculation weather information to the Internet. The 6152C and 6162C models rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings. Wind Wind Chill (Calculated) Integrated Sensor Suite (ISS) the nearest 1°C console and ISS Source..... United States National Weather Service (NWS)/NOAA Equation Used ...... Osczevski (1995) (adopted by US NWS in 2001) Cable Type ...... 4-conductor, 26 AWG Variables Used ...... Avg. Wind Speed Current Display Data ..... Instant Calculation Maximum displayable wind decreases as the length of cable increases, at 140 (42 m) of cable, the maximum wind speed displayed is 135 mph (60 Note Current Graph Data ...... Instant Calculation; Hourly, Daily and Monthly Low m/s); at 240' (73 m), the maximum wind speed displayed is 100 mph (34 m/s) Historical Graph Data. . . . . . . . . . . . . . . Hourly, Daily and Monthly Lows Alarm. ..... Low Threshold from Instant Calculation Wind Direction Sensor ...... Wind vane with potentiometer Wind Direction (214 cm²) collection area Temperature Sensor Type..... PN Junction Silicon Diode Relative Humidity Sensor Type ...... Film capacitor element Accuracy ..... ±3° Housing Material ...... UV-resistant ABS, polypropylene Update Interval ..... 2.5 to 3 seconds Sensor Inputs RF Filtering ...... RC low-pass filter on each signal line Monthly Dominant ISS Dimensions(not including anemometer or bird spikes): Monthly Dominants Vantage Pro2 with Standard Rad Shield ...... 14.0" x 9.4" x 14.5" (356 mm x 239 mm x 368 mm) Wind Speed Resolution and Units ...... 1 mph, 1 km/h, 0.4 m/s, or 1 knot (user-selectable) Measured in mph; Vantage Pro2 with Fan-Asprated Rad Shield..... 20.8" x 9.4" x 16.0" (528 mm x 239 mm x 406 mm) other units are converted from mph and rounded to nearest 1 km/hr, 0.1 Vantage Pro2 Plus with Standard Rad Shield ......... 14.3" x 9.7" x 14.5" (363 mm x 246 mm x 368 mm) m/s or 1 knot Vantage Pro2 Plus with Fan-Aspirated Rad Shield ..... 21,1" x 9,7" x 16.0" (536 mm x 246 mm x 406 mm) Update Interval ..... Instant Reading: 2.5 to 3 seconds, 10-minute Average: 1 minute length of cable from anemometer to ISS increases.) Current Display Data ..... Instant Current Graph Data ...... Instant Reading; 10-minute and Hourly Average; Hourly High; Daily, Davis Instruments 3465 Diablo Ave., Hayward, CA 94545-2778 USA (510) 732-9229 - FAX (510) 670-0589 - sales@davisinstruments.com - www.davisinstruments.com Monthly and Yearly High with Direction of High Historical Graph Data...... 10-min. and Hourly Averages; Hourly Highs; Daily, Monthly and Yearly DS6152C, 6162C Rev. W 12/7/18 Highs with Direction of Highs

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# Appendix F – Weather information

### General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)
01/05/2021	23.8	30.0	0.0	76
02/05/2021	24.5	30.8	1.2	82
03/05/2021	23.5	25.4	8.8	89
04/05/2021	23.1	31.3	12.5	84
05/05/2021	23.3	31.7	0.5	79
06/05/2021	23.4	28.6	Trace	79
07/05/2021	24.0	30.5	0.0	77
08/05/2021	25.4	30.9	0.0	79
09/05/2021	26.8	31.7	0.0	79
10/05/2021	26.4	31.8	0.0	76
11/05/2021	27.7	31.4	Trace	77
12/05/2021	28.2	32.1	Trace	78
13/05/2021	28.0	32.0	3.9	79
14/05/2021	28.1	34.0	0.0	77
15/05/2021	27.9	33.8	0.0	74
16/05/2021	28.2	33.5	Trace	74
17/05/2021	28.8	33.3	0.0	75
18/05/2021	28.3	32.5	1.3	76
19/05/2021	28.8	33.5	0.0	75
20/05/2021	29.2	33.3	0.0	75
21/05/2021	29.5	34.0	Trace	75
22/05/2021	27.8	34.3	2.6	77
23/05/2021	28.9	36.1	Trace	74
24/05/2021	27.6	31.5	15.7	81
25/05/2021	27.5	30.1	4.8	83
26/04/2021	27.8	33.5	4.0	77
27/05/2021	28.2	33.2	1.0	76
28/05/2021	28.5	33.6	0.0	77
29/05/2021	28.8	32.8	0.0	79
30/05/2021	29.2	32.3	Trace	81
31/05/2021	26.7	32.4	8.7	84

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

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2021&m=05

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/05/2021	23.7	30.0
02/05/2021	24.2	28.2
03/05/2021	23.5	24.6
04/05/2021	23.0	31.3
05/05/2021	23.4	30.8
06/05/2021	23.2	26.3
07/05/2021	23.7	29.8
08/05/2021	24.9	31.3
09/05/2021	26.6	32.1
10/05/2021	25.9	32.1
11/05/2021	27.3	31.4
12/05/2021	27.8	32.2
13/05/2021	27.3	32.5
14/05/2021	27.8	29.9
15/05/2021	26.0	33.1
16/05/2021	27.1	32.2
17/05/2021	NA	NA
18/05/2021	NA	NA
19/05/2021	28.4	33.1
20/05/2021	28.8	32.9
21/05/2021	27.6	33.6
22/05/2021	27.4	33.7
23/05/2021	28.6	31.7
24/05/2021	26.7	32.9
25/05/2021	25.4	31.0
26/04/2021	26.3	32.9
27/05/2021	27.7	33.0
28/05/2021	28.7	33.2
29/05/2021	28.9	32.2
30/05/2021	29.2	32.6
31/05/2021	25.7	32.1

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

https://i-lens.hk/hkweather/history_chart.php?date=2021-05-01&chart_type=DG_TEMP

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
01/05/2021	0:00	0	225	02/05/2021	0:00	0.9	270	03/05/2021	0:00	1.3	67.5	04/05/2021	0:00	0.9	90
01/05/2021	1:00	0	225	02/05/2021	1:00	0.4	135	03/05/2021	1:00	0.9	45	04/05/2021	1:00	0.4	112.5
01/05/2021	2:00	1.3	270	02/05/2021	2:00	0.9	270	03/05/2021	2:00	1.8	67.5	04/05/2021	2:00	0.4	112.5
01/05/2021	3:00	0.9	270	02/05/2021	3:00	0.9	247.5	03/05/2021	3:00	0.9	112.5	04/05/2021	3:00	0.9	157.5
01/05/2021	4:00	1.3	270	02/05/2021	4:00	1.3	270	03/05/2021	4:00	0.9	112.5	04/05/2021	4:00	0.4	135
01/05/2021	5:00	0.4	270	02/05/2021	5:00	0.4	135	03/05/2021	5:00	0.9	112.5	04/05/2021	5:00	1.3	135
01/05/2021	6:00	0.9	225	02/05/2021	6:00	0.9	157.5	03/05/2021	6:00	2.2	45	04/05/2021	6:00	0.4	135
01/05/2021	7:00	1.3	225	02/05/2021	7:00	0	157.5	03/05/2021	7:00	1.8	67.5	04/05/2021	7:00	0.4	157.5
01/05/2021	8:00	0	225	02/05/2021	8:00	0.9	157.5	03/05/2021	8:00	1.3	67.5	04/05/2021	8:00	0.9	157.5
01/05/2021	9:00	0.4	202.5	02/05/2021	9:00	0.4	90	03/05/2021	9:00	0.9	90	04/05/2021	9:00	0.4	135
01/05/2021	10:00	1.3	202.5	02/05/2021	10:00	1.3	135	03/05/2021	10:00	1.8	90	04/05/2021	10:00	0.9	135
01/05/2021	11:00	0.4	157.5	02/05/2021	11:00	0.4	135	03/05/2021	11:00	0.9	45	04/05/2021	11:00	1.3	90
01/05/2021	12:00	0.4	135	02/05/2021	12:00	1.8	90	03/05/2021	12:00	1.3	45	04/05/2021	12:00	0.4	90
01/05/2021	13:00	1.8	112.5	02/05/2021	13:00	1.3	157.5	03/05/2021	13:00	0.9	45	04/05/2021	13:00	1.3	135
01/05/2021	14:00	0.4	90	02/05/2021	14:00	0.9	135	03/05/2021	14:00	0.4	135	04/05/2021	14:00	0.9	112.5
01/05/2021	15:00	0.9	90	02/05/2021	15:00	2.2	135	03/05/2021	15:00	0.9	45	04/05/2021	15:00	1.8	112.5
01/05/2021	16:00	1.3	315	02/05/2021	16:00	0.9	157.5	03/05/2021	16:00	1.3	45	04/05/2021	16:00	0.9	135
01/05/2021	17:00	0.4	225	02/05/2021	17:00	0.9	90	03/05/2021	17:00	1.3	45	04/05/2021	17:00	0.9	112.5
01/05/2021	18:00	0.4	270	02/05/2021	18:00	0.4	112.5	03/05/2021	18:00	1.8	90	04/05/2021	18:00	0.9	90
01/05/2021	19:00	0.9	270	02/05/2021	19:00	1.3	112.5	03/05/2021	19:00	0.4	90	04/05/2021	19:00	0	202.5
01/05/2021	20:00	0.4	180	02/05/2021	20:00	0.4	45	03/05/2021	20:00	0.4	90	04/05/2021	20:00	2.2	112.5
01/05/2021	21:00	1.8	202.5	02/05/2021	21:00	1.3	45	03/05/2021	21:00	1.3	22.5	04/05/2021	21:00	0.4	135
01/05/2021	22:00	0.4	90	02/05/2021	22:00	0.4	112.5	03/05/2021	22:00	0.9	22.5	04/05/2021	22:00	0.4	337.5
01/05/2021	23:00	0.4	90	02/05/2021	23:00	0.9	112.5	03/05/2021	23:00	0.4	45	04/05/2021	23:00	0.4	225

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

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

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/05/2021	0:00	0.4	337.5	10/05/2021	0:00	0.4	90	11/05/2021	0:00	0.4	180	12/05/2021	0:00	0.9	67.5
09/05/2021	1:00	1.3	247.5	10/05/2021	1:00	0.9	90	11/05/2021	1:00	0.9	135	12/05/2021	1:00	0.9	67.5
09/05/2021	2:00	0.9	247.5	10/05/2021	2:00	0.4	45	11/05/2021	2:00	0.4	135	12/05/2021	2:00	0.9	90
09/05/2021	3:00	0.9	270	10/05/2021	3:00	1.3	45	11/05/2021	3:00	1.3	135	12/05/2021	3:00	0.4	135
09/05/2021	4:00	1.3	270	10/05/2021	4:00	0.4	67.5	11/05/2021	4:00	1.3	90	12/05/2021	4:00	0.4	157.5
09/05/2021	5:00	0.9	225	10/05/2021	5:00	0.4	157.5	11/05/2021	5:00	0.4	67.5	12/05/2021	5:00	0.4	180
09/05/2021	6:00	0.9	225	10/05/2021	6:00	0.4	135	11/05/2021	6:00	0.9	112.5	12/05/2021	6:00	0.4	157.5
09/05/2021	7:00	0.9	270	10/05/2021	7:00	0.9	135	11/05/2021	7:00	0.9	67.5	12/05/2021	7:00	0.4	157.5
09/05/2021	8:00	1.3	270	10/05/2021	8:00	1.3	67.5	11/05/2021	8:00	0.4	180	12/05/2021	8:00	0.9	0
09/05/2021	9:00	0.4	270	10/05/2021	9:00	0.4	202.5	11/05/2021	9:00	1.3	67.5	12/05/2021	9:00	0.4	67.5
09/05/2021	10:00	0.9	45	10/05/2021	10:00	0.4	67.5	11/05/2021	10:00	1.8	45	12/05/2021	10:00	0.9	157.5
09/05/2021	11:00	0.9	67.5	10/05/2021	11:00	0.9	0	11/05/2021	11:00	1.3	45	12/05/2021	11:00	1.3	112.5
09/05/2021	12:00	0.9	45	10/05/2021	12:00	0.4	45	11/05/2021	12:00	1.8	45	12/05/2021	12:00	1.8	22.5
09/05/2021	13:00	0.9	67.5	10/05/2021	13:00	0.9	135	11/05/2021	13:00	0.9	22.5	12/05/2021	13:00	1.3	67.5
09/05/2021	14:00	0.9	90	10/05/2021	14:00	0.9	90	11/05/2021	14:00	1.3	67.5	12/05/2021	14:00	1.3	90
09/05/2021	15:00	1.8	90	10/05/2021	15:00	0.9	67.5	11/05/2021	15:00	1.3	67.5	12/05/2021	15:00	1.3	90
09/05/2021	16:00	0.9	45	10/05/2021	16:00	0.9	157.5	11/05/2021	16:00	1.8	90	12/05/2021	16:00	0.9	67.5
09/05/2021	17:00	1.3	45	10/05/2021	17:00	0.9	157.5	11/05/2021	17:00	0.9	90	12/05/2021	17:00	0.9	90
09/05/2021	18:00	0.9	67.5	10/05/2021	18:00	1.3	67.5	11/05/2021	18:00	1.3	202.5	12/05/2021	18:00	0.9	45
09/05/2021	19:00	0.9	67.5	10/05/2021	19:00	0.9	67.5	11/05/2021	19:00	0.4	135	12/05/2021	19:00	0.4	112.5
09/05/2021	20:00	0.4	180	10/05/2021	20:00	1.3	157.5	11/05/2021	20:00	0.4	90	12/05/2021	20:00	0.4	157.5
09/05/2021	21:00	0.4	315	10/05/2021	21:00	0.9	90	11/05/2021	21:00	0.4	45	12/05/2021	21:00	0.9	135
09/05/2021	22:00	0	202.5	10/05/2021	22:00	0.9	67.5	11/05/2021	22:00	0.4	135	12/05/2021	22:00	0.4	135
09/05/2021	23:00	0.4	247.5	10/05/2021	23:00	0.4	90	11/05/2021	23:00	0.9	135	12/05/2021	23:00	0.9	90

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/05/2021	0:00	1.3	90	14/05/2021	0:00	0.4	45	15/05/2021	0:00	0.9	67.5	16/05/2021	0:00	0.4	135
13/05/2021	1:00	0.9	90	14/05/2021	1:00	0.9	45	15/05/2021	1:00	0.9	90	16/05/2021	1:00	0.9	45
13/05/2021	2:00	0.4	90	14/05/2021	2:00	1.3	45	15/05/2021	2:00	1.3	112.5	16/05/2021	2:00	0.9	67.5
13/05/2021	3:00	0.4	90	14/05/2021	3:00	1.3	90	15/05/2021	3:00	0.9	112.5	16/05/2021	3:00	0.9	112.5
13/05/2021	4:00	0.4	135	14/05/2021	4:00	1.8	45	15/05/2021	4:00	0.9	67.5	16/05/2021	4:00	0.9	112.5
13/05/2021	5:00	0.4	135	14/05/2021	5:00	2.2	180	15/05/2021	5:00	0.9	45	16/05/2021	5:00	1.3	112.5
13/05/2021	6:00	0.9	157.5	14/05/2021	6:00	1.8	45	15/05/2021	6:00	0.9	112.5	16/05/2021	6:00	0.9	67.5
13/05/2021	7:00	0.9	90	14/05/2021	7:00	0.9	90	15/05/2021	7:00	0.9	112.5	16/05/2021	7:00	0.9	45
13/05/2021	8:00	1.8	45	14/05/2021	8:00	1.8	90	15/05/2021	8:00	0.9	67.5	16/05/2021	8:00	1.3	22.5
13/05/2021	9:00	0.4	45	14/05/2021	9:00	0.4	45	15/05/2021	9:00	0.9	67.5	16/05/2021	9:00	0.9	22.5
13/05/2021	10:00	0.9	90	14/05/2021	10:00	0.4	180	15/05/2021	10:00	0.9	45	16/05/2021	10:00	0.45	45
13/05/2021	11:00	0.9	112.5	14/05/2021	11:00	0.9	45	15/05/2021	11:00	0.9	90	16/05/2021	11:00	0.9	270
13/05/2021	12:00	0.4	135	14/05/2021	12:00	1.3	45	15/05/2021	12:00	0.4	67.5	16/05/2021	12:00	0.9	90
13/05/2021	13:00	1.3	135	14/05/2021	13:00	0.9	45	15/05/2021	13:00	0	225	16/05/2021	13:00	0.4	45
13/05/2021	14:00	1.3	90	14/05/2021	14:00	0.9	90	15/05/2021	14:00	0.9	202.5	16/05/2021	14:00	0.9	112.5
13/05/2021	15:00	0.9	135	14/05/2021	15:00	0.9	135	15/05/2021	15:00	0.4	202.5	16/05/2021	15:00	0.4	45
13/05/2021	16:00	0.4	90	14/05/2021	16:00	1.3	45	15/05/2021	16:00	0.9	225	16/05/2021	16:00	0.9	45
13/05/2021	17:00	0.4	90	14/05/2021	17:00	0.4	45	15/05/2021	17:00	0.9	45	16/05/2021	17:00	0.9	45
13/05/2021	18:00	0.4	90	14/05/2021	18:00	0.4	45	15/05/2021	18:00	0.4	45	16/05/2021	18:00	0.4	135
13/05/2021	19:00	0.4	90	14/05/2021	19:00	0.4	45	15/05/2021	19:00	0.4	67.5	16/05/2021	19:00	0.9	67.5
13/05/2021	20:00	0.4	90	14/05/2021	20:00	0.4	45	15/05/2021	20:00	0.9	67.5	16/05/2021	20:00	0.9	90
13/05/2021	21:00	1.3	135	14/05/2021	21:00	0.9	135	15/05/2021	21:00	0.9	45	16/05/2021	21:00	0.9	67.5
13/05/2021	22:00	0.9	135	14/05/2021	22:00	0.4	135	15/05/2021	22:00	0.4	135	16/05/2021	22:00	0.4	0
13/05/2021	23:00	0.4	90	14/05/2021	23:00	0.9	90	15/05/2021	23:00	0.9	45	16/05/2021	23:00	0.4	0

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
17/05/2021	0:00	0.4	180	18/05/2021	0:00	0.9	90	19/05/2021	0:00	1.3	112.5	20/05/2021	0:00	0.9	67.5
17/05/2021	1:00	0.9	180	18/05/2021	1:00	1.3	22.5	19/05/2021	1:00	1.3	45	20/05/2021	1:00	0.9	45
17/05/2021	2:00	0.9	90	18/05/2021	2:00	0.9	90	19/05/2021	2:00	1.3	67.5	20/05/2021	2:00	0.9	45
17/05/2021	3:00	0.9	90	18/05/2021	3:00	1.3	22.5	19/05/2021	3:00	1.3	67.5	20/05/2021	3:00	0.9	45
17/05/2021	4:00	1.3	90	18/05/2021	4:00	1.3	22.5	19/05/2021	4:00	1.3	67.5	20/05/2021	4:00	1.8	45
17/05/2021	5:00	1.3	90	18/05/2021	5:00	0.9	90	19/05/2021	5:00	0.9	45	20/05/2021	5:00	1.3	22.5
17/05/2021	6:00	0.9	112.5	18/05/2021	6:00	1.3	90	19/05/2021	6:00	1.8	45	20/05/2021	6:00	0.9	67.5
17/05/2021	7:00	1.3	112.5	18/05/2021	7:00	1.3	90	19/05/2021	7:00	1.3	67.5	20/05/2021	7:00	1.3	292.5
17/05/2021	8:00	0.9	112.5	18/05/2021	8:00	0.9	247.5	19/05/2021	8:00	1.3	67.5	20/05/2021	8:00	0.9	45
17/05/2021	9:00	0.9	22.5	18/05/2021	9:00	1.3	90	19/05/2021	9:00	1.3	45	20/05/2021	9:00	1.3	270
17/05/2021	10:00	0.4	45	18/05/2021	10:00	0.9	135	19/05/2021	10:00	0.9	45	20/05/2021	10:00	0.4	270
17/05/2021	11:00	0.4	90	18/05/2021	11:00	0.9	67.5	19/05/2021	11:00	1.3	90	20/05/2021	11:00	0.9	270
17/05/2021	12:00	0.4	225	18/05/2021	12:00	0.9	247.5	19/05/2021	12:00	1.3	90	20/05/2021	12:00	0.4	67.5
17/05/2021	13:00	0.4	45	18/05/2021	13:00	0.9	90	19/05/2021	13:00	1.3	67.5	20/05/2021	13:00	0.9	90
17/05/2021	14:00	0.4	180	18/05/2021	14:00	0.9	67.5	19/05/2021	14:00	0.9	67.5	20/05/2021	14:00	0.9	135
17/05/2021	15:00	0	0	18/05/2021	15:00	0.4	67.5	19/05/2021	15:00	0.9	112.5	20/05/2021	15:00	0.9	45
17/05/2021	16:00	0.4	225	18/05/2021	16:00	0.9	67.5	19/05/2021	16:00	0.9	112.5	20/05/2021	16:00	0.9	135
17/05/2021	17:00	0.4	135	18/05/2021	17:00	0.4	112.5	19/05/2021	17:00	0.4	135	20/05/2021	17:00	0.9	67.5
17/05/2021	18:00	0.4	180	18/05/2021	18:00	0.4	90	19/05/2021	18:00	0.9	112.5	20/05/2021	18:00	0.9	67.5
17/05/2021	19:00	0.9	90	18/05/2021	19:00	0.4	180	19/05/2021	19:00	0.4	67.5	20/05/2021	19:00	0.9	67.5
17/05/2021	20:00	0.4	180	18/05/2021	20:00	0.9	90	19/05/2021	20:00	0.9	247.5	20/05/2021	20:00	0.4	112.5
17/05/2021	21:00	0.9	90	18/05/2021	21:00	0.4	90	19/05/2021	21:00	0.9	67.5	20/05/2021	21:00	0.9	22.5
17/05/2021	22:00	0.9	157.5	18/05/2021	22:00	0.9	45	19/05/2021	22:00	0.9	90	20/05/2021	22:00	0.9	22.5
17/05/2021	23:00	0.4	225	18/05/2021	23:00	0.9	45	19/05/2021	23:00	0.4	247.5	20/05/2021	23:00	0.9	22.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/05/2021	0:00	0.9	135	22/05/2021	0:00	0.4	225	23/05/2021	0:00	0.9	90	24/05/2021	0:00	0.4	270
21/05/2021	1:00	1.3	45	22/05/2021	1:00	0.9	112.5	23/05/2021	1:00	1.3	45	24/05/2021	1:00	0.4	202.5
21/05/2021	2:00	1.3	135	22/05/2021	2:00	0.9	135	23/05/2021	2:00	1.3	45	24/05/2021	2:00	0.9	270
21/05/2021	3:00	1.8	270	22/05/2021	3:00	0.9	45	23/05/2021	3:00	0.9	45	24/05/2021	3:00	1.3	270
21/05/2021	4:00	1.8	270	22/05/2021	4:00	1.3	112.5	23/05/2021	4:00	2.2	45	24/05/2021	4:00	0.9	247.5
21/05/2021	5:00	1.3	247.5	22/05/2021	5:00	1.3	67.5	23/05/2021	5:00	2.2	112.5	24/05/2021	5:00	1.8	202.5
21/05/2021	6:00	1.8	247.5	22/05/2021	6:00	1.3	112.5	23/05/2021	6:00	1.3	135	24/05/2021	6:00	0.9	225
21/05/2021	7:00	1.3	270	22/05/2021	7:00	0.9	112.5	23/05/2021	7:00	1.3	135	24/05/2021	7:00	0.4	270
21/05/2021	8:00	1.3	112.5	22/05/2021	8:00	0.9	112.5	23/05/2021	8:00	1.8	135	24/05/2021	8:00	0.4	180
21/05/2021	9:00	1.3	112.5	22/05/2021	9:00	0.9	45	23/05/2021	9:00	0.4	112.5	24/05/2021	9:00	0.4	270
21/05/2021	10:00	1.8	112.5	22/05/2021	10:00	1.8	45	23/05/2021	10:00	0.9	112.5	24/05/2021	10:00	0.4	247.5
21/05/2021	11:00	0.9	67.5	22/05/2021	11:00	0.4	90	23/05/2021	11:00	0.9	135	24/05/2021	11:00	0.4	157.5
21/05/2021	12:00	0.9	90	22/05/2021	12:00	1.3	45	23/05/2021	12:00	1.3	90	24/05/2021	12:00	0.9	157.5
21/05/2021	13:00	0.9	90	22/05/2021	13:00	1.3	90	23/05/2021	13:00	0.4	90	24/05/2021	13:00	0.4	157.5
21/05/2021	14:00	0.9	90	22/05/2021	14:00	1.3	90	23/05/2021	14:00	1.3	135	24/05/2021	14:00	1.3	90
21/05/2021	15:00	1.3	112.5	22/05/2021	15:00	0.4	90	23/05/2021	15:00	0.9	135	24/05/2021	15:00	0.9	90
21/05/2021	16:00	0.9	90	22/05/2021	16:00	0.4	90	23/05/2021	16:00	0.4	135	24/05/2021	16:00	0.9	135
21/05/2021	17:00	0.9	112.5	22/05/2021	17:00	0.4	135	23/05/2021	17:00	0.4	90	24/05/2021	17:00	0.4	135
21/05/2021	18:00	0.4	67.5	22/05/2021	18:00	0.4	45	23/05/2021	18:00	0.4	90	24/05/2021	18:00	0.4	157.5
21/05/2021	19:00	0.4	22.5	22/05/2021	19:00	0.4	45	23/05/2021	19:00	0.9	135	24/05/2021	19:00	1.3	270
21/05/2021	20:00	1.3	112.5	22/05/2021	20:00	1.3	112.5	23/05/2021	20:00	0.4	135	24/05/2021	20:00	0.4	270
21/05/2021	21:00	0.4	180	22/05/2021	21:00	0.4	67.5	23/05/2021	21:00	0	112.5	24/05/2021	21:00	0.9	270
21/05/2021	22:00	0.4	225	22/05/2021	22:00	0.4	135	23/05/2021	22:00	0.4	112.5	24/05/2021	22:00	0.4	67.5
21/05/2021	23:00	0.4	135	22/05/2021	23:00	0.4	135	23/05/2021	23:00	0.4	90	24/05/2021	23:00	0.9	22.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
25/05/2021	0:00	1.3	90	26/05/2021	0:00	0.9	90	27/05/2021	0:00	0	315	28/05/2021	0:00	0.9	45
25/05/2021	1:00	1.3	90	26/05/2021	1:00	0.4	90	27/05/2021	1:00	0.4	157.5	28/05/2021	1:00	2.2	247.5
25/05/2021	2:00	0.9	247.5	26/05/2021	2:00	1.3	90	27/05/2021	2:00	0.4	0	28/05/2021	2:00	0.9	0
25/05/2021	3:00	1.3	90	26/05/2021	3:00	0.4	135	27/05/2021	3:00	0.4	112.5	28/05/2021	3:00	0.9	247.5
25/05/2021	4:00	0.9	135	26/05/2021	4:00	1.3	135	27/05/2021	4:00	0.4	22.5	28/05/2021	4:00	1.8	270
25/05/2021	5:00	0.9	67.5	26/05/2021	5:00	0.4	90	27/05/2021	5:00	1.3	292.5	28/05/2021	5:00	1.3	270
25/05/2021	6:00	0.9	247.5	26/05/2021	6:00	0.4	135	27/05/2021	6:00	0.4	292.5	28/05/2021	6:00	1.3	270
25/05/2021	7:00	0.9	90	26/05/2021	7:00	0.4	90	27/05/2021	7:00	1.3	292.5	28/05/2021	7:00	0.9	202.5
25/05/2021	8:00	0.9	67.5	26/05/2021	8:00	0.4	90	27/05/2021	8:00	0.4	315	28/05/2021	8:00	1.8	202.5
25/05/2021	9:00	0.4	67.5	26/05/2021	9:00	0.9	135	27/05/2021	9:00	0.9	270	28/05/2021	9:00	0.9	202.5
25/05/2021	10:00	0.9	67.5	26/05/2021	10:00	1.3	135	27/05/2021	10:00	0.9	247.5	28/05/2021	10:00	0.9	270
25/05/2021	11:00	0.4	112.5	26/05/2021	11:00	0.9	90	27/05/2021	11:00	1.3	247.5	28/05/2021	11:00	1.3	270
25/05/2021	12:00	0.9	247.5	26/05/2021	12:00	0.4	202.5	27/05/2021	12:00	1.3	45	28/05/2021	12:00	2.2	247.5
25/05/2021	13:00	0.9	270	26/05/2021	13:00	1.3	45	27/05/2021	13:00	1.3	22.5	28/05/2021	13:00	2.2	202.5
25/05/2021	14:00	1.3	270	26/05/2021	14:00	0.4	180	27/05/2021	14:00	0.9	22.5	28/05/2021	14:00	1.3	67.5
25/05/2021	15:00	0.9	225	26/05/2021	15:00	0.4	135	27/05/2021	15:00	1.3	22.5	28/05/2021	15:00	1.8	45
25/05/2021	16:00	0.9	225	26/05/2021	16:00	0.9	135	27/05/2021	16:00	1.8	45	28/05/2021	16:00	1.3	45
25/05/2021	17:00	0.9	270	26/05/2021	17:00	0.9	90	27/05/2021	17:00	1.3	135	28/05/2021	17:00	0.9	270
25/05/2021	18:00	1.3	270	26/05/2021	18:00	0.4	67.5	27/05/2021	18:00	0.9	270	28/05/2021	18:00	1.3	270
25/05/2021	19:00	0.4	90	26/05/2021	19:00	0.9	90	27/05/2021	19:00	1.3	225	28/05/2021	19:00	0.9	247.5
25/05/2021	20:00	0.4	90	26/05/2021	20:00	0.4	270	27/05/2021	20:00	0.9	225	28/05/2021	20:00	1.3	67.5
25/05/2021	21:00	1.3	45	26/05/2021	21:00	0.9	45	27/05/2021	21:00	0.9	247.5	28/05/2021	21:00	1.3	90
25/05/2021	22:00	0	90	26/05/2021	22:00	0.4	270	27/05/2021	22:00	0.4	90	28/05/2021	22:00	0.9	90
25/05/2021	23:00	0.4	90	26/05/2021	23:00	0.4	180	27/05/2021	23:00	0.9	45	28/05/2021	23:00	0	90

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/05/2021	0:00	1.8	247.5	30/05/2021	0:00	1.8	225	31/05/2021	0:00	1.8	67.5				
29/05/2021	1:00	2.7	225	30/05/2021	1:00	2.2	225	31/05/2021	1:00	1.3	67.5				
29/05/2021	2:00	1.3	225	30/05/2021	2:00	1.3	270	31/05/2021	2:00	0.9	90				
29/05/2021	3:00	1.3	202.5	30/05/2021	3:00	2.7	270	31/05/2021	3:00	1.8	90				
29/05/2021	4:00	1.8	270	30/05/2021	4:00	2.2	225	31/05/2021	4:00	0.9	45				
29/05/2021	5:00	2.7	270	30/05/2021	5:00	3.1	270	31/05/2021	5:00	1.3	45				
29/05/2021	6:00	2.2	270	30/05/2021	6:00	2.2	270	31/05/2021	6:00	0.9	45				
29/05/2021	7:00	0.9	202.5	30/05/2021	7:00	2.2	180	31/05/2021	7:00	0.4	135				
29/05/2021	8:00	2.7	202.5	30/05/2021	8:00	2.1	270	31/05/2021	8:00	0.9	45				
29/05/2021	9:00	0.9	45	30/05/2021	9:00	0.9	45	31/05/2021	9:00	1.3	45				
29/05/2021	10:00	1.3	45	30/05/2021	10:00	0.9	270	31/05/2021	10:00	1.3	292.5				
29/05/2021	11:00	1.3	90	30/05/2021	11:00	1.8	270	31/05/2021	11:00	0.4	292.5				
29/05/2021	12:00	0.9	90	30/05/2021	12:00	1.3	247.5	31/05/2021	12:00	0.4	45				
29/05/2021	13:00	1.8	90	30/05/2021	13:00	1.8	22.5	31/05/2021	13:00	0.9	112.5				
29/05/2021	14:00	1.3	90	30/05/2021	14:00	1.3	22.5	31/05/2021	14:00	0.9	112.5				
29/05/2021	15:00	1.8	45	30/05/2021	15:00	1.8	225	31/05/2021	15:00	1.3	135				
29/05/2021	16:00	1.3	22.5	30/05/2021	16:00	0.9	22.5	31/05/2021	16:00	1.3	135				
29/05/2021	17:00	1.8	270	30/05/2021	17:00	0.9	45	31/05/2021	17:00	1.8	135				
29/05/2021	18:00	1.3	45	30/05/2021	18:00	0.9	202.5	31/05/2021	18:00	0.9	112.5				
29/05/2021	19:00	2.2	202.5	30/05/2021	19:00	0.4	270	31/05/2021	19:00	1.8	90				
29/05/2021	20:00	1.8	180	30/05/2021	20:00	0.9	22.5	31/05/2021	20:00	0.4	90				
29/05/2021	21:00	0.4	90	30/05/2021	21:00	0.9	157.5	31/05/2021	21:00	0.4	90				
29/05/2021	22:00	0.9	45	30/05/2021	22:00	0.9	157.5	31/05/2021	22:00	0.9	90				
29/05/2021	23:00	1.3	0	30/05/2021	23:00	0.4	157.5	31/05/2021	23:00	1.3	45				

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

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

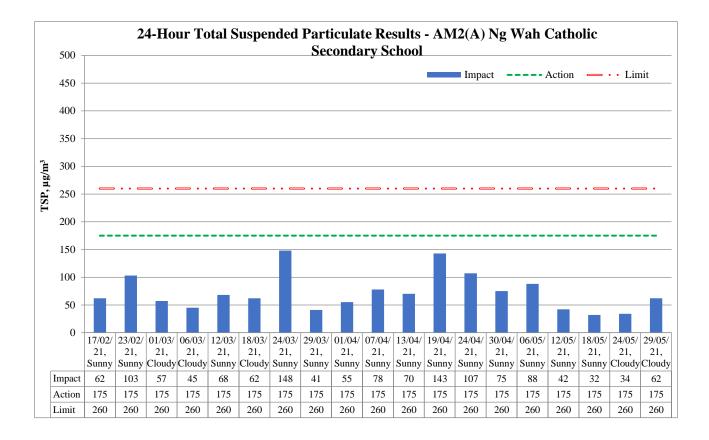
Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m ³ )	$(\mu g/m^3)$
6/5/2021	Sunny	28.0	1015.4	15.6925	15.8745	0.1820	5446.17	5470.19	1441	50	50	1.43	2065	88
12/5/2021	Sunny	31.1	1008.3	15.8135	15.8988	0.0853	5470.58	5494.59	1441	50	50	1.42	2044	42
18/5/2021	Sunny	33.8	1009.2	11.5447	11.6102	0.0655	5494.97	5518.99	1441	50	50	1.41	2036	32
24/5/2021	Cloudy	29.6	1009.6	11.7215	11.7907	0.0692	5519.17	5543.18	1441	50	50	1.42	2051	34
29/5/2021	Cloudy	32.2	1007.1	18.6647	18.7904	0.1257	5543.87	5567.89	1441	50	50	1.42	2040	62
												Maxir	num	88
												Minin	num	32
												Aver	age	51
												Action	Level	175
											Limit I	Level	260	

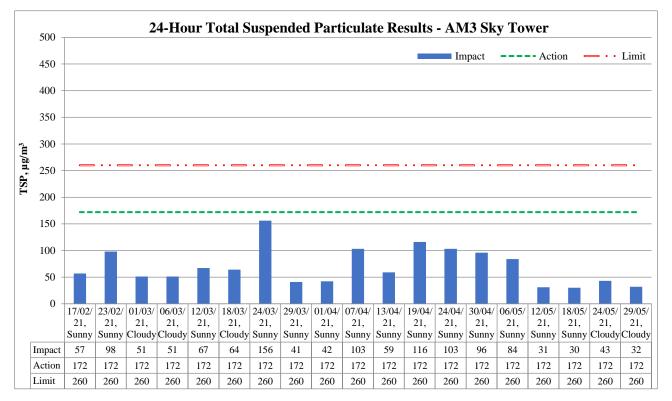
Location: AM2(A) – Ng Wah Catholic Secondary School

Location: AM3 – Sky Tower

Start Date	Weather	Air Temp. (°C)	Atmospheric Pressure	Filter we	eight (g)	Particulate weight (g)	Elapse Time		Sampling Time	Flow Rate (cfm)		Av. Flow 7	Total vol.	Conc.
			(hPa)	Initial	Final		Initial	Final	(min)	Initial	Final	(m ³ /min)	$(m^{3})$ (µ	$(\mu g/m^3)$
6/5/2021	Sunny	28.0	1015.4	11.6437	11.8161	0.1724	2899.25	2923.28	1442	52	52	1.43	2062	84
12/5/2021	Sunny	31.1	1008.3	11.675	11.7375	0.0625	2924.51	2948.53	1441	52	52	1.42	2043	31
18/5/2021	Sunny	33.8	1009.2	11.6665	11.7272	0.0607	2949.71	2973.73	1441	52	52	1.41	2035	30
24/5/2021	Cloudy	29.6	1009.6	11.6847	11.7726	0.0879	2974.34	2998.36	1441	52	52	1.42	2050	43
29/5/2021	Cloudy	32.2	1007.1	11.7478	11.8133	0.0655	2999.09	3023.11	1441	52	52	1.41	2039	32
												Max	imum	84
												Mini	mum	30
												Ave	erage	44
												Action	n Level	172
												Limit	Level	260

### 24-hour average TSP





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

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

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

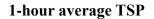
	Date	Measure	emer	nt Period	1-hr TSP concentration, µg/m ³	Weather	
Location:		13:00	-	14:00	49		
AM2(A) –	06/05/2021	14:00	-	15:00	51	Sunny	
Ng Wah Catholic		15:00	-	16:00	60		
Secondary School		9:00	-	10:00	38		
Secondary School	12/05/2021	10:00	-	11:00	40	Sunny	
		11:00	-	12:00	32		
	18/05/2021	9:00	-	10:00	19		
		10:00	-	11:00	22	Sunny	
		11:00	-	12:00	20		
	24/05/2021	13:00	-	14:00	22		
		14:00	-	15:00	30	Cloudy	
		15:00	-	16:00	31		
		9:00	-	10:00	48		
	29/05/2021	10:00	-	11:00	52	Cloudy	
		11:00	-	12:00	50		
		laximum			60		
	Ν	linimum			19		
		Average			38		
		tion Level			302		
	Li	mit Level			500		

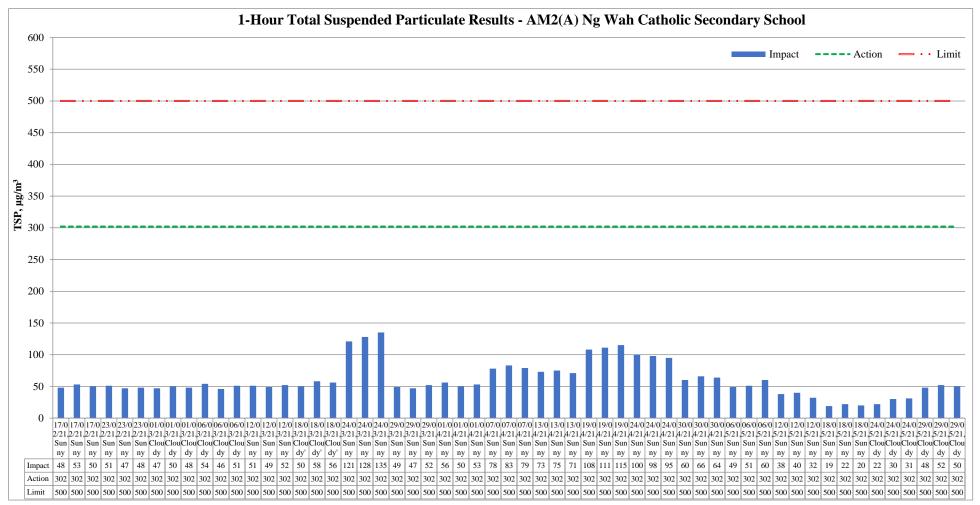
Date	Date Measurement Period			1-hr TSP concentration, μg/m ³	Weather		
	9:00	-	10:00	44			
06/05/2021	10:00	-	11:00	50	Sunny		
	11:00	-	12:00	57			
	9:00	-	10:00	21			
12/05/2021	10:00	-	11:00	22	Sunny		
	11:00	-	12:00	24			
	13:00	-	14:00	18			
18/05/2021	14:00	-	15:00	19	Sunny		
	15:00	-	16:00	22			
	13:00	-	14:00	27			
24/05/2021	14:00	-	15:00	29	Cloudy		
	15:00	-	16:00	35			
	9:00	-	10:00	15			
29/05/2021	10:00	-	11:00	16	Cloudy		
	11:00	-	12:00	20			
Ν	laximum			57			
Ν	<i>l</i> inimum			15			
	Average			28			
Ac	tion Level			301			
Li	mit Level			500			

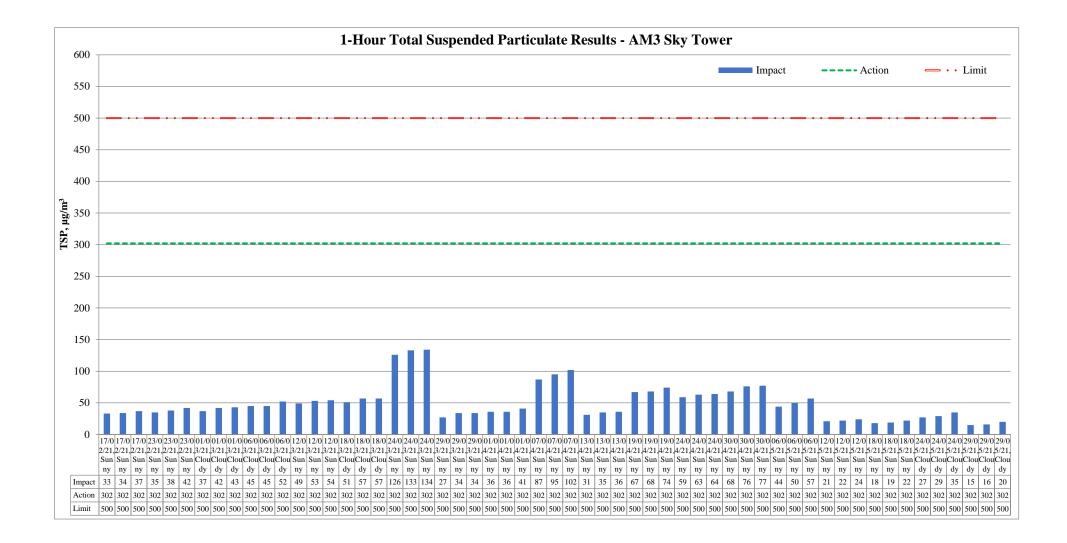
## Location:

## AM3 -

Sky Tower







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

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

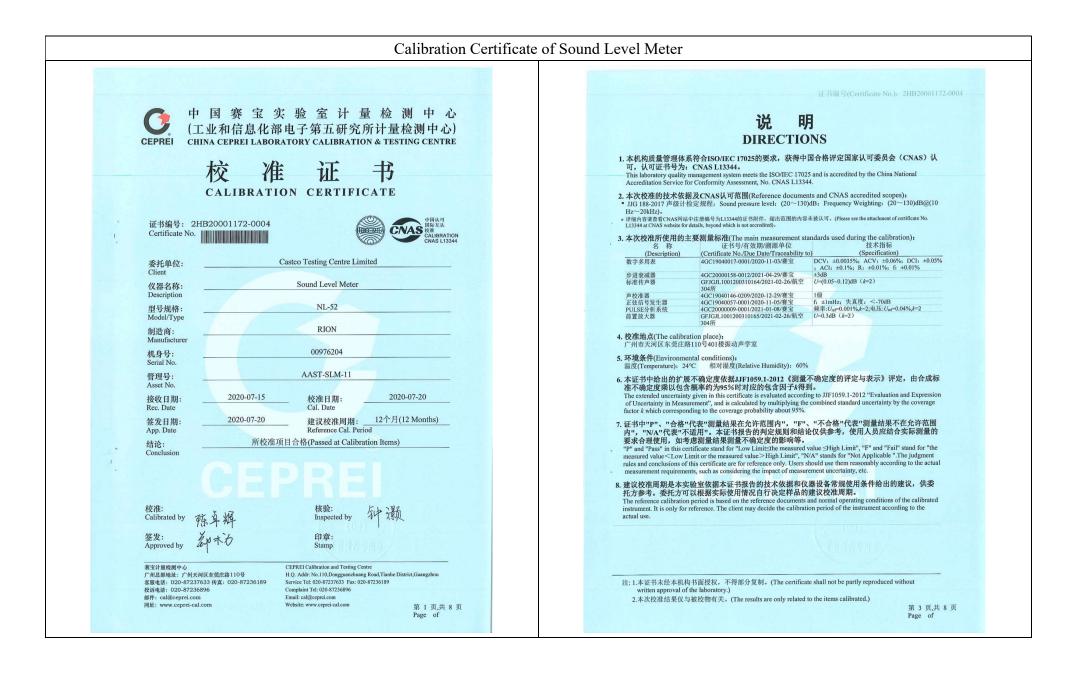
Appendix I – Event and Action Plan for air quality

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

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

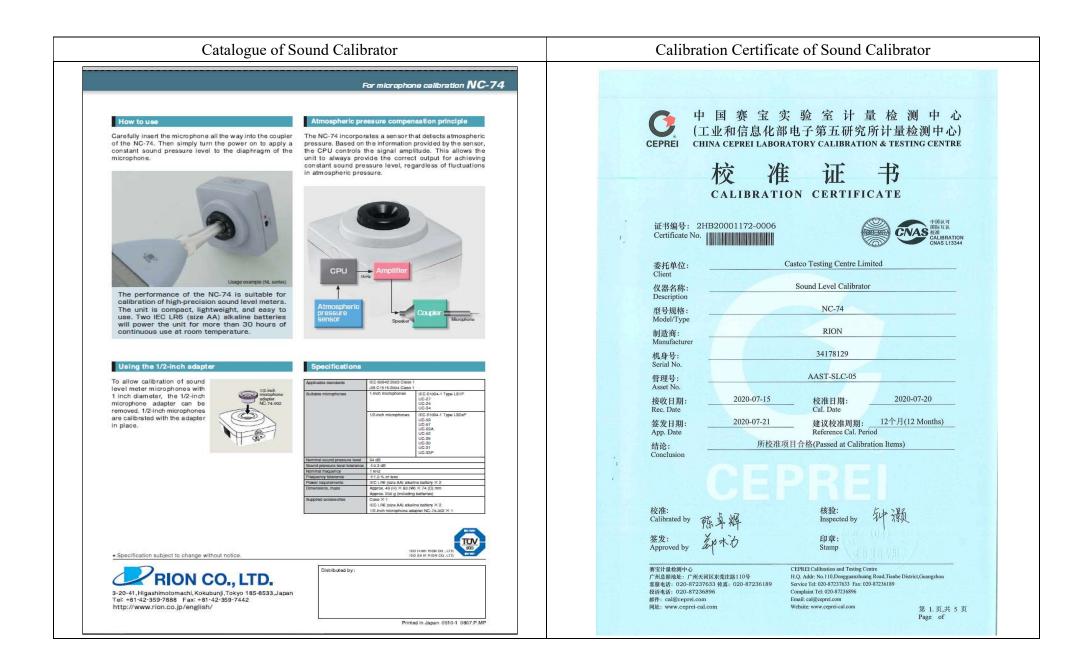
Appendix J – Calibration certificates, catalogue of noise monitoring equipment

		ll	Ц					
Spec	ifications							
	•			Data			Allows viewing of stored data	
Angligght	le standards	NL-52	NL-42	Setup	memory		Up to five setup configurations ca Start up via file settings previou	an be saved in internal memory, for later re sly stored on SD card possible
Аррисари	le standards	ANSI S1.4-1983 Type 1	ANSI S1.4-1983 Type 2		orm recordi	ng * 3		
		ANSI S1.4A-1985 Type 1 ANSI S1.43-1997 Type 1	ANSI S1.4A-1985 Type 2 ANSI S1.43-1997 Type 2		e format mpling frequ	iency	Uncompressed waveform WAV Select 48 kHz, 24 kHz or 12 kH	
		JIS C 1509-1: 2005 Class 1	IIS C 1509-1: 2005 Class 2		DC outp		Select 24 bit or 16 bit	cy weighting characteristic selected by proces
		C Marking CMC Dec.vc 2001/08 WEEE Directives, Chinese RoHS (e	C, Low Voltage Directive 2006/95/EC),	Coupuis	Outpu	it voltage	2.5 V, 25 mV / dB at bar graph	display full scale
Measure	ment functions	Simultaneous measurement of the f			AC output	ut	Output AC signals using a freque processing or by A. C. Z-weight	ency weighting characteristic selected b ing.
Proces	ssing (main ch)	weighting and frequency weighting Instantaneous sound pressure level	Lp			it voltage	1 V (rms values) at bar graph d	
		Equivalent continuous sound pressu Sound exposure level: Le	re level: Leq		Compara output * 2		Turns on when the open-collect (max. applied voltage 24 V, max.	or output exceeds the set value current 60 mA, allowable dissipation 300 m
		Maximum sound pressure level: Lma	x	USB			Allows USB to be connected to a Allows USB to be controlled via c	computer and recognized as a removable
		Minimum sound pressure level: Lmin Percentile sound levels: LN (0.1 to 99	9 %, 0.1-increment steps, max. 5 values)	RS-23	32C comm			ation via use of a dedicated cable
	ssing (sub ch)	Instantaneous sound pressure level	Lp		continuous pe of Instar		Lp	
Additic	onal processing	In addition to main processing items for simultaneous processing:	, one of the following can be selected	dat	ta Proc	essed value	Leq, Lmax, Lmin, Lpeak	
		C-weighted equivalent continuous se		Ou Print o	utput interv	ral	100 ms Printing of measurement results	s on dedicated printer DPU-414
		C-weighted peak sound level: Lcpeak Z-weighted peak sound level: Lcpeak		Power	r requirem		Four IEC R6 (size AA) batteries (alkalin	ne or rechargeable batteries) or external power su Ni-MH secondary battery: 25 h
		I-time-weighted equivalent continuous Maximum I-time-weighted equivalent c		Ba	ittery life (2	(3 C)	At the maximum * Depends on	the setting
		The power average of the maximum level	el of each 5 second interval: LAtm5		C adapter ternal pow	er voltage	NC-98C (NC-34 for previous methods) 5 to 7 $\lor$ (rated voltage: 6 $\lor$ )	odels cannot be used)
		The frequency weighting for the additional pro of the sub-channel, so when the sub-channel I	bessing synchronizes with the frequency weighting las A-weighting, LAtm3 can be selected.	Cu	irrent cons	umption	Approximately 90 mA (normal of	peration, rated voltage)
		When C-weighting (Z-weighting ) is selected	d, the additional processing LCeq and LCpeak	Ambie condit		nperature nidity	-10 to +50 °C 10 to 90 % RH (non-condensing	3)
Measurin	ig time	(Lzprak) are selectable. 10 s, 1, 5, 10, 15, 30 m, 1, 8, 24 h, a	nd manual (maximum 24 h)	Dustp	roof / wate		IP code: IP54 (except for micro See precautions regarding wate	phone)
Microphone	Type Sensitivity level	UC-59 -27 dB	UC-52 33 dB	Dimer	mance*4 nsions, we		Approx. 250 (H) x 76 (W) x 33 m	m(D), approx. 400 g (with batteries)
Measure	ment range	A-weighting: 25 dB to 138 dB		Suppl	lied access	sories		5-10 x 1, Windscreen fall prevention rubber > batteries x 4, SD card 512 MB×1 (NX-42EX
		C-weighting: 33 dB to 138 dB Z-weighting: 38 dB to 138 dB					preinstalled model only)	
		C-weighting peak sound level: 55 dB		Opti	ions			
Inherent	A-weighting	Z-weighting peak sound level: 60 dE 17 dB or less	19 dB or less	Exton	adad functi		duct name m (Inst.on 512 MB SD card)	Product number NX-42EX
noise	C-weighting Z-weighting	25 dB or less 30 dB or less	27 dB or less 32 dB or less	Wave	eform reco	rding progr	ram*2 (Inst.on 2 GB SD card)	NX-42WR
Frequenc	cy range	20 Hz to 20 kHz	20 Hz to 8 kHz				ysis program *2 (Inst.on 512 MB SD card) Inst.on 512 MB SD card)	NX-42RT NX-42FT
Frequence Time weight	cy weighting ghting	A, C, and Z F (Fast) and S (Slow)		Data r	manageme	ent software	of or environmental measurement	AS-60
Level ran		Single range (Linearity range: 113 d Max. 110 dB (20 to 130 dB)	3)	(Includ	des the octa	ave and 1/3	octave data management software)	AS-60RT
Switchin	ng of bar graph display	Set the upper/ lower limit in 10 dB in	crements.	(Inclu	ides the vi	bration leve	of or environmental measurement el data management software)	AS-60VM
RMS dete Sampling	ection circuit cycle	Digital processing method 20.8 µs (Lp, Leq, LE, Lmax, Lmin, Lpeak	; sampling frequency; 48 kHz)		ard 512 M		ire	CAT-WAVE SD-512M
		100 ms (LN)			ard 2 GB dapter (10	0.V.to 240	VA.	SD-2G NC-98C
Calibratic	n	Measurement Law: electrical calibration p using internally generated signals: acoust	erformed according to IEC and JIS standards, c calibration performed with the NC-74.	Batter	ry pack			BP-21
Correctio	n functions	Windscreen correction:	9-1 standards when the windscreen is installed.		phone ext Pin output		bles	EC-04 (from 2 m) CC-24
		Diffuse sound field correction:		Comp	parator out			CC-42C
		Correction of frequency characteris (ANSI S1.4) in diffuse sound field.	tics in order to comply with standards	Printe Printe	er er cable			DPU-414 CC-42P
Delay tim	10	The meter can be set to start measuring	ng a specified time (OFF, 1, 3, 5 or 10 s)	RS 23 USB	32C serial cable	1/O cable		CC-42R
Back era:	se function	after the start button has been presse When the PAUSE key is pressed to	d or when a user-set trigger is exceeded. pause measurement, the preceding	Soun	d calibrato			NC-74
Display		(user selectable) 0, 1, 3 or 5 s data a Backlit semitransparent color TFT L		7 01 110	eather win screen mo	00010011	apter	WS-15 WS-15006
Crapitay		* LCD with touch panel (Capacitive	Touch Panel)	Rain-	protection	windscree	n	WS-16
Store	anual		Bar graph update frequency: 100 ms ad manually in single address increments.		id level me eather win		pod	ST-80 ST-81
	Number of data	Internal memory: max. 1000 sets					products. *2 NX-42EX required (sold ful dust and water splashing from	separately). *3 NX-42WR required (sold separ any direction.
EEEA	uto*2	SD Card: depends on the capacity of Instantaneous values (Lp mode) and		Preca	utions reg	garding w	aterproofing bber bottom cover and the battery	
	Lp sampling cycle	stored continuously and automatical 100 ms, 200 ms, 1 s, Leg 1s	ly at preset intervals.					compartment lid are firmly closed. placement is required every two years (at c
	Leg sampling cycle	10 s, 1, 5, 10, 15, 30 ms, 1, 8, 24 h						
	Measurement Time	Max. 1000 h (depends on the capac	ity of the SD Card)*1					ISO 14001
		rk of Microsoft Corporation. to change without notice.						ISO 14001 RION CO., LTD. ISO 9001 RION CO., LTD.
				(				
Distribu	uted by:			/				
				C				<b>O., LTD.</b>
						ht	tp://www.rion.co.jp/eng	glish/
								nji, Tokyo 185-8533, Jap
				rel:	-01-4	2-359-	7888 Fax: +81-42-	309-1442
		nent-friendly. It does not include to	xic chemicals on our policy. protected and resistant to splashing water).					



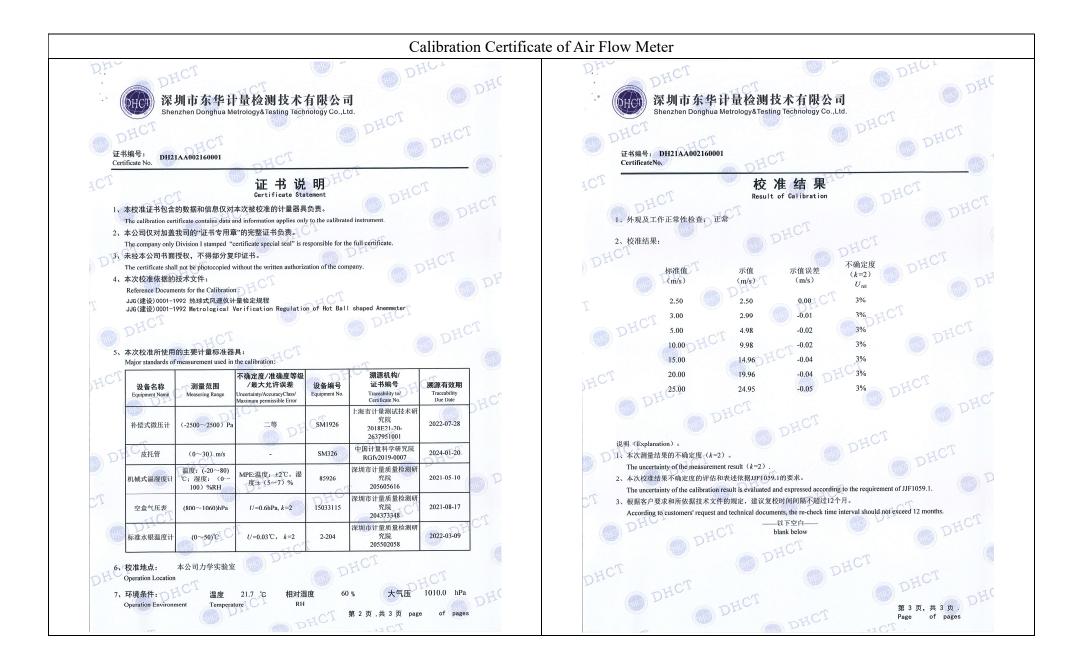
CEPREI	证书编号(Certificate No.): 2HB20001172-0004	CEPREI			证书编	号(Certificate No.):	2HB2000117	2-0004
1 外观与工作正常性检查	(Appearance and Function Check)	4 A计权特性(A-V	Veighting Cha	racteristic)				
	吉果准确度的因素和缺陷。	频率	实测值	理论值	误差	允许误差	结论	U
There are no factor a	nd defect that affect the calibration result accuracy of the certificate.	(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)
		(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
2 指示声级调整 (Indicatio		20	-50.6	-50.5	-0.1	±2.0	Р	0.5
传声器型号	传声器编号 放大器型号 放大器编号	25	-44.9	-44.7	-0.2	+2.0 ~ -1.5	Р	0.5
(Microphone Type)	(Microphone SN.) (Preamplifier Type) (Preamplifier SN.)	31.5 40	-39.8	-39.4	-0.4	±1.5	Р	0.5
UC-59	12133 NH-25 76321	40 50	-34.6 -30.4	-34.6 -30.2	0.0	±1.0	P	0.5
-to Lie Mie BB 201 C1	标准声压级 校准前示值 校准后示值 U	63	-30.4	-30.2	-0.2	±1.0 ±1.0	P	0.5 0.5
声校准器型号	标准声压级 校准前示值 校准后示值 U (Reference SPL) (Before Calibration) (After Calibration) (标2)	80	-20.3	-20.2	-0.1	$\pm 1.0$ $\pm 1.0$	P	0.5
(Calibrator Type)		100	-19.1	-19.1	0.0	±1.0	p	0.5
4231	(dB) (dB) (dB) (dB) 94,0 93.9 94.0 0.2	125	-16.2	-16.1	-0.1	±1.0	Р	0.5
4231	94.0 75.7 74.0 0.2	160	-13.2	-13.4	0.2	±1.0	Р	0.5
3 级线性 (Level Linearity)		200	-10.8	-10.9	0.1	±1.0	Р	0.5
3.1 参考级量程 (Reference	e Range) 频率(Frequency): 8000Hz	250	-8.7	-8.6	-0.1	±1.0	Р	0.5
SIT S SEATER (Reference	起始点指示声级(Sound Level Indication of Start Point): 90.0 dB	315	-6.7	-6.6	-0.1	±1.0	Р	0.4
起始点以上间隔10	dB点的最大误差(Maximum Error for each 10dB above Start Point): -0.1 dB	400	-4.8	-4.8	0.0	±1.0	Р	0.4
	U(k=2) = 0.6  dB	500	-3.2	-3.2	0.0	±1.0	Р	0.4
上限以下5dB间隔1dB点	的最大误差(Maximum Error for each 1dB below Upper Limit 5dB): -0.1 dB	630	-1.9	-1.9	0.0	±1.0	Р	0.4
	U (k=2) 0.6 dB	800	-0.8	-0.8	0.0	±1.0	Р	0.4
起始点以下间隔10	IB点的最大误差(Maximum Error for each 10dB below Start Point): -0.1 dB	1000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4
	U (k=2) 0.6 dB	1250	0.6	0.6	0.0	±1.0	Р	0.6
下限以上5dB间隔1dB点	的最大误差(Maximum Error for each 1dB above Lower Limit 5dB): -0.1 dB	1600	1.0	1.0	0.0	±1.0	Р	0.6
	U (k=2) 0.6 dB	2000	1.2	1.2	0.0	±1.0	Р	0.6
		2500	1.3	1.3	0.0	±1.0	Р	0.6
3.2 其它级量程 (Other Ran		3150	1.2	1.2	0.0	±1.0	Р	0.6
	起始点指示声级(Sound Level Indication of Start Point): 90.0 dB	4000	1.0	1.0	0.0	±1.0	Р	0.6
起始点以上间隔10	IB点的最大误差(Maximum Error for each 10dB above Start Point): -0.2 dB	5000	0.6	0.5	0.1	±1.5	Р	0.6
	U (k=2) 0.4 dB	6300 8000	0.0 -1.0	-0.1	0.1	+1.5 ~ -2.0	Р	0.6
上限以下5dB间隔1dB点	的最大误差(Maximum Error for each 1dB below Upper Limit 5dB): -0.2 dB			-1.1	0.1	+1.5 ~ -2.5	Р	0.6
	U(k=2) 0.4 dB	10000 12500	-2.4 -4.4	-2.5	0.1	$+2.0 \sim -3.0$	P	0.6
起始点以下间隔100	IB点的最大误差(Maximum Error for each 10dB below Start Point): -0.1 dB	12300	-4.4	-4.3 -6.6	-0.1 -1.3	$+2.0 \sim -5.0$ $+2.5 \sim -16.0$	P P	1.0
and set to be any designed on the		20000	-14.2	-9.3	-1.5	$+2.3 \sim -10.0$ +3.0 ~ -∞	P P	1.0 1.0
下限以上5dB间隔1dB点	的最大误差(Maximum Error for each 1dB above Lower Limit 5dB): -0.1 dB U (k=2) 0.4 dB			-9.5	4.5	13.0 ~ 105	r	1.0
	数据页(Data sheet) 1D: U071288 第 5 页,共 8 页 Page of	第6页,共8页 Page of		数据页(Data she	et) ID: U	071288		

CEPREI			证书编	号(Certificate No.):	2HB2000117	2-0004
5 C计权特性(C	-Weighting Cl	naracteristic)				
频率	实测值	理论值	误差	允许误差	结论	U
(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)
(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
20	-6.4	-6.2	-0.2	±2.0	Р	0.5
25	-4.5	-4.4	-0.1	+2.0 $\sim$ -1.5	Р	0.5
31.5	-3.1	-3.0	-0.1	±1.5	Р	0.5
40	-2.1	-2.0	-0.1	±1.0	Р	0.5
50	-1.3	-1.3	0.0	±1.0	Р	0.5
. 63	-0.9	-0.8	-0.1	±1.0	P	0.5
80	-0.5	-0.5	0.0	±1.0	Р	0.5
100	-0.3	-0.3	0.0	±1.0	P P	0.5 0.5
125	-0.1	-0.2	0.1	±1.0 ±1.0	P	0.5
160	-0.1	-0.1	0.0 0.0	±1.0 ±1.0	P	0.5
200 250	0.0 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	Р	0.4
500	0.0	0.0	0.0	±1.0	р	0.4
630	0.0	0.0	0.0	±1.0	P	0.4
800	0.0	0.0	0.0	±1.0	Р	0.4
1000(Ref.)	0.0	0.0	0.0	±0.7	р	0.4
1250	0.0	0.0	0.0	±1.0	Р	0.6
1600	-0.1	-0.1	0.0	±1.0	Р	0.6
2000	-0.1	-0.2	0.1	±1.0	Р	0.6
2500	-0.3	-0.3	0.0	±1.0	Р	0.6
3150	-0.5	-0.5	0.0	±1.0	Р	0.6
4000	-0.8	-0.8	0.0	±1.0	Р	0.6
. 5000	-1.2	-1.3	0.1	±1.5	Р	0.6
6300	-1.9	-2.0	0.1	+1.5 ~ -2.0	Р	0.6
8000	-2.9	-3.0	0.1	+1.5 ~ -2.5	Р	0.6
10000	-4.3	-4.4	0.1	+2.0 ~ -3.0	Р	0.6
12500	-6.4	-6.2	-0.2	+2.0 ~ -5.0	Р	1.0
16000	-9.9	-8.5	-1.4	+2.5 ~ -16.0	Р	1.0
20000	-16.2	-11.2	-5.0	+3.0 ~ -00	Р	1.0
		数据页(Data she	eet) ID: U	J071288	第7页, Page of	共 8 页



if 书稿 \${(Certificate No.): 2HB20001172-0006 <b> </b>	CEPREI 证书编号(C 1 外观与工作正常性检查 (Appearance and Function Check)	Certificate No.): 2HB20001172-0006
DIRECTIONS 1. 本机构质量管理体系符合ISO/IEC 17025的要求,获得中国合格评定国家认可委员会(CNAS)认	CEPREI	Certificate No.): 2HB20001172-0006
DIRECTIONS 1. 本机构质量管理体系符合ISO/IEC 17025的要求,获得中国合格评定国家认可委员会(CNAS)认	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。	
可,认可证书号为: CNAS L13344。 This laboratory quality management system meets the ISO/IEC 17025 and is accredited by the China National	There are no factor and defect that affect the calibration result accu	aracy of the certificate.
Accreditation Service for Conformity Assessment, No. CNAS L13344.	2 声压级 (Sound Pressure Level)	
<ol> <li>本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes);</li> <li>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 kHz);</li> </ol>	规定声压级 测量声压级 声压级差的绝对值 允许	许范围 结论 U
, ALLZ/。 # 详细内容语查看CNAS网站中注册编号为L1344的证书附件, 超出范围的内容未被认可。(Please see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accredited).		Limit) (Pass/Fail) (k=2)
3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration):		(dB) (dB)
名称         证书号/有效期/溯源单位         技术指标           (Description)         (Certificate No./Due Date/Traceable)         (Specification)           标准传声器         GFGUI10012030164/2021-02-26航空         U=(0.05-0.12)dB (k=2)           304所         304所         U=0.3dB (k=2)	94 94.38 0.38	≤0.40 P 0.10
304所 PULSE分析系统  4GC20000024-0064/2021-02-12/赛宝   频率:Ure=0.001%,k=2;电压:Ure=0.04%,k=2	3 频率 (Frequency)	
4. 校准地点(The calibration place): 广州市天河区东莞庄路110号401楼振动声学室	規定频率 测量频率 频率误差的绝对值 允许	午范围 结论 Urel
5. 环境条件(Environmental conditions):	(Prescribed Fre.) (Measured Fre.) (Absolute value of Fre.) (L	.imit) (Pass/Fail) (k=2)
温度(Temperature): 24℃ 相对湿度(Relative Humidity): 60%	(Hz) (Hz) (%)	(%)
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%的对应的包含因子4%到多。 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%.	1000 1002.0 0.20 4 总失真 (Distortion)	≤1.00 P 0.10
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"。本证书报告的判定规则和结论仅供参考,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。		午范围 结论 Urel imit) (Pass/Fail) (k=2)
"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="" measured="" or="" the="" value="">High Limit", "N/A" stands for "Not Applicable ".The judgment</low>		imit) (Pass/Fail) ( <i>k</i> =2) %) (%)
rules and 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.		≤3.00 <b>P</b> 5.0
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建议校准周期。 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.	以下堂白/No data hereafter	E
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	数据页(Data sheet) ID: U013	393 第 5 页,共 5 页 Page of

Catalo	gue of Air Flow	v Meter ('	TSI TA	A440)		Calibration Certificate of Air Flow Meter
SPECIFICATIONS THERMAL ANEMO MODELS TA410, TA	METERS					AAST-FLow-03, Gl Get 2021/2/26 深圳市东华计量检测技术有限公司 Shenzhen Donghua Metrology&Testing Technology Co.,Ltd.
elocity ange (TA410) ange (TA430, TA440) ccuracy (TA430, TA440) ¹⁶² ccuracy (TA430, TA440) ¹⁶²	0 to 20 m/s (0 to 4,000 ft/min) 0 to 30 m/s (0 to 6,000 ft/min) ±5% of reading or ±0.025 m/s (±5 ft/min), whichever is greater ±3% of reading or ±0.015 m/s (±3 ft/min), whichever is greater	Time Constant (T User selectable External Meter D 8.4 cm x 17.8 cm x 4 Meter Weight wit	<b>imensions</b> 4.4 cm (3.3 in. x			DHCT DHCT CALIBRATION CERTIFICATE
Resolution Duct Size (TA430, TA44 Dimensions	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.)	0.27 kg (0.6 lbs.) Meter Probe Dime Probe Length Probe Diameter of 7	101.6 Tip 7.0 mr	cm (40 in.) n (0.28 in.)		委托方名称: Client name The table to the table of the table of the table of the table of
Volumetric Flow Rate (T Range	A430, TA440) Actual range is a function of velocity, and duct size	Probe Diameter of I Articulating Prob Articulating Section	oe Dimensions	ım (0.51 in.) <b>1</b> n (7.8 in.)		委托方地址: Add.of Client 计量器具名称: 风速计
<b>Temperature</b> Range (TA410, TA430) Range (TA440) Accuracy ⁸ Resolution	-18 to 93°C (0 to 200°F) -10 to 60°C (14 to 140°F) ±0.3°C (±0.5°F) 01°C (0.1°F)	Diameter of Articulating Knuckle Power Requireme Four AA-size batter	9.5 m	n (0.38 in.)		Name of Instrument 型号/规格: Type/Specification
Relative Humidity (TA4 Range	<b>40 only)</b> 5 to 95% RH		TA410	TA430, TA430-A	TA440, TA440-A	制造单位: Manufacturer 器具编号: AAST-FLOW_02/TA4401704002
Accuracy ⁴ Resolution	±3% RH 0.1% RH	Velocity range 0 to 20.00 m/s (0 to 4000 ft/min) Velocity range 0 to 30.00 m/s	+	+	+	Serial No.
Wet Bulb Temperature ( Range Resolution	FA440 only) 5 to 60°C (40 to 140°F) 0.1°C (0.1°F)	(0 to 6000 ft/min) Temperature Flow	+	+	+	接收日期: Date of Receipt 校准日期: CT 2021 年 02 月 23 日 Month 23 Day
<b>Dew Point (TA440 only)</b> Range Resolution	-15 to 49°C (5 to 120°F) 0.1°C (0.1°F)	Flow Humidity, wet bulb, dew point Probe	Straight	+ Straight or -A articulated	+ + Straight or -A articulated	校准日期: Date of calibration 2021 年 02 月 26 日 Year, 02 Month 26 Day
Instrument Temperatur Operating (Electronics) Model TA410, TA430 Operating (Probe)	5 to 45°C (40 to 113°F) -18 to 93°C (0 to 200°F)	Variable time constant Manual data logging Auto save		articulated + +	+	批准人: Approved by
Model TA440 Operating (Probe) Storage	-10 to 60°C (14 to 140°F) -20 to 60°C (-4 to 140°F)	data logging Statistics		+	+	核验员: 张 ぢ 庆 张吉庆 Checked by
Data Storage Capabilitie Range	12,700+ samples and 100 test IDs	Review data LogDat2 downloading software		+	+ +	校准员: 蒋新建 蒋新建 Stamp
Logging Interval (TA430 1 second to 1 hour	, TA440)	Free Certificate of Calibration	+	+	+	Calibrated by
Spedications subject to change within TSI and the TSI logo are registered trad the Arthwine and Legibital are tradi- tion of the tradition of the tradition of the tradition of the tradition of the tradition of the tradition Visit our website at www.aitf	emarka and Akflow marks of TSI Incorporated. TLEDENE MEENTS truments Ltd. covinstruments.co.uk for more information		egins at 30 ft/min thr 30 ft/min through 6,0 t case at 25°C (77°F), a temperature. i°C (77°F), Add uncert	ough 4000 ft/min (0. 100 ft/min (0.15 m/s t xld uncertainty of 0.0 ainty of 0.2% RH/PC (	15 m/s through 20 m/s) nrough 30 m/s) for 3°C/°C (0.05°F/°F)	<ul> <li>計量校准机构备案号, 粤校备2017B010</li> <li>地址:深圳市龙华区大浪街道同群社区浦华科技图厂房 A1层</li> <li>电话: 0755-28161768/28162768/28166778</li> <li>竹養: 0755-28104376</li> <li>邮编: 518109</li> <li>两址: www.szdhjl.com 电子邮箱: szdhjl@163.com</li> </ul>
France Tel: +33 491 11 8		v				DHCT 第1页,共3页 page of pages DI



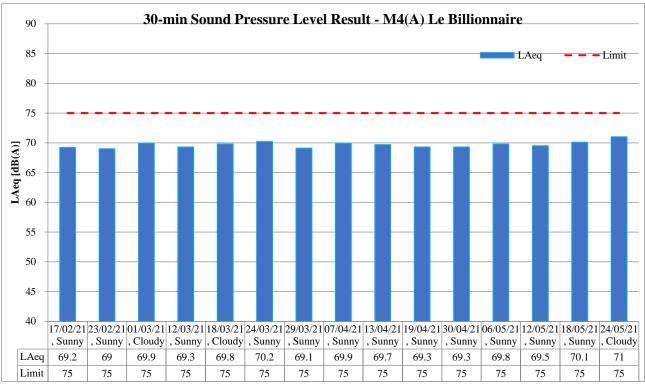
Appendix K – Noise monitoring results and graphical presentation

### M4(A) – Le Billionnaire

	Temp	<b>XX</b> 7 41		-	<b>T</b> · · ·					
Date (°C)		Weather	Time			Baseline	$L_{Aeq}$	L _{A10}	L _{A90}	Limit
06/05/2021	28.0	Sunny	9:35	-	10:05	69.5	69.8	71.1	68.1	75
12/05/2021	31.1	Sunny	13:05	-	13:35	69.5	69.5	70.9	67.5	75
18/05/2021	33.8	Sunny	13:25	-	13:55	69.5	70.1	71.7	67.4	75
24/05/2021	29.6	Cloudy	9:07	-	9:37	69.5	71.0	72.9	67.7	75
					Maximum		71.0			
			Minimum			69.5	]			
					Average		70.1	]		

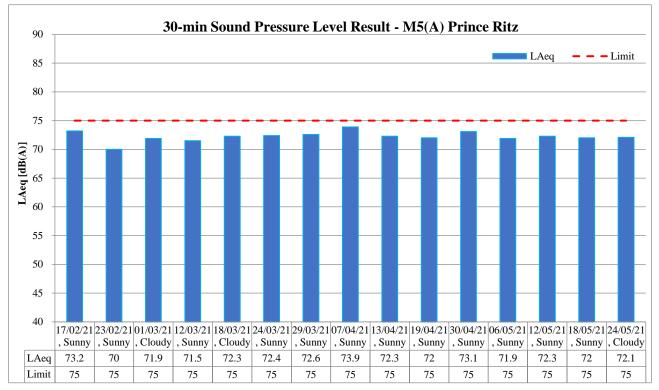
## M5(A) – Prince Ritz

	Temp	Weather			<b>T</b> · · ·					
Date	Date (°C)		Time			Baseline	$L_{Aeq}$	L _{A10}	L _{A90}	Limit
06/05/2021	28.0	Sunny	10:30	-	11:00	72.5	71.9	73.2	69.7	75
12/05/2021	31.1	Sunny	14:05	-	14:35	72.5	72.3	74.4	70.8	75
18/05/2021	33.8	Sunny	14:25	-	14:55	72.5	72.0	73.1	69.8	75
24/05/2021	29.6	Cloudy	10:37	-	11:07	72.5	72.1	73.5	70.1	75
				Maximum						
			Minimum			71.9				
			Average				72.1			



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

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



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

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

# Appendix L – Event and Action Plan for noise

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

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

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

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

**Appendix N – Waste Flow Table** 

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

	А	ctual Quantitie	es of Inert C&I	) Materials Gei	nerated Monthl	у	Actu	al Quantities o	f C&D Wastes	Generated Mo	onthly
Month	Total Quantity Generated	Borken Concrete (4)	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (3)	Chemical Waste	Other, e.g. general refuse
	[in '000m ³ ]	[in '000m ³ ]	[in '000m ³ ]	[in '000m ³ ]	[in '000m ³ ]	[in '000m ³ ]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³ ]
JAN	0.191597506	0.028739612	0	0	0.162857895	0	0	0	0	0	0.007013333
FEB	1.108290924	0.166243555	0	0	0.942047368	0	0	0	0	0	0.011833333
MAR	0.416297177	0.062444545	0	0	0.353852632	0	0	0	0	0	0.017520000
APR	0.020390091	0.003058512	0	0	0.017331579	0	0	0	0	0	0.002420000
MAY	0.230390073	0.034558494	0	0	0.195831579	0	0	0	0	0	0.189360000
JUNE											
SUB- TOTAL	1.966965771	0.295044718	0	0	1.671921053	0	0	0	0	0	0.228146666
JULY											
AUG											
SEPT											
ОСТ											
NOV											
DEC											
TOTAL	1.966965771	0.295044718	0	0	1.671921053	0	0	0	0	0	0.228146666

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

	Forecast of Total Quantities of C&D materials to be Generated from the Contracts *									
Total	Total     Borken     Reused in the     Reused in     Disposal as     Import Fill     Metals     Paper /     Plastics (3)     Chemical     Other, e.g.									
[in '000m ³ ]	[in '000m ³ ] [in '000kg] [in '00kg] [i									[in '000m ³ ]

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

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

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

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

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

#### Table 1.1 Implementation Schedule for Air Quality Measures

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation	Im	plem Sta	entat ges*	ion	Relevant Legislation and	
	Measures	<b>J</b>	Agent	Des	С	0	Dec	Guidelines	
S3.2	8 times daily watering of the work site with active dust emitting activities.	Work site / during construction	Contractor		√			EIAO-TM	
\$3.2	<ul> <li>Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts.</li> <li>Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.</li> <li>Misting for the dusty material should be carried out before being loaded into the vehicle.</li> <li>Any vehicle with an open load carrying area should have properly fitted side and tail boards.</li> <li>Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin.</li> <li>The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary, before transportation.</li> <li>The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. Onsite unpaved roads should be compacted and kept free of lose materials.</li> <li>Vehicle washing facilities should be provided at every vehicle exit point.</li> <li>The area where vehicle washing takes place and the</li> </ul>		Contractor					EIAO-TM & Air Quality Objective	

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation	Im	plem Stag	entati ges*	Relevant Legislation and	
	Measures	C C	Agent	Des	С	ο	Dec	Ğuidelines
	section of the road between the washing facilities and							
	the exit point should be paved with concrete,							
	bituminous materials or hardcores.							
	- Every main haul road should be scaled with concrete							
	and kept clear of dusty materials or sprayed with							
	water so as to maintain the entire road surface wet.							
	- Every stock of more than 20 bags of cement should							
	be covered entirely by impervious sheeting placed in							
	an area sheltered on the top and the three sides.							
	- Every vehicle should be washed to remove any dusty							
	materials from its body and wheels before leaving							
	the construction sites.							

#### Table 1.2 Implementation Schedule for Noise Measures

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation	Im	plem Sta	entat ges*	ion	Relevant Legislation and
	Measures	g	Agent	Des	С	0	Dec	Guidelines
S3.3	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump.	Work Sites / Construction Period	Contractor		1			EIAO-TM, NCO
S3.3	<ul> <li>Good Site Practice: <ul> <li>Only well-maintained plant should be operated onsite and plant should be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.</li> <li>Mobile plant, if any, should be sited as far away from NSRs as possible.</li> <li>Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.</li> <li>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.</li> <li>Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul> </li> </ul>	Work Sites / Construction Period	Contractor		✓			EIAO-TM, NCO
S3.3	- Scheduling of Construction Works during School Examination Period.	Construction site near to school / Examination Period	Contractor		$\checkmark$			

#### Table 1.3 Implementation Schedule for Water Quality Measures

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation	Im	plem Sta	entat ges*	ion	Relevant Legislation and
	Measures	Ū	Agent	Des	С	0	Dec	Guidelines
S3.4	<b>Operational Phase</b> A surface water drainage system should be provided to collect road runoff. It is recommended that the road drainage should be provided with adequately designed silt trap and oil interceptors, as necessary. The design of the operational stage mitigation measures for the road works shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD".	Project site / during design and operational stages	CEDD	✓		1		EIAO-TM, WPCO, ProPECC PN 5/93
S3.4	Construction Phase         Construction Runoff         Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: <ul> <li>use of sediment traps</li> <li>adequate maintenance of drainage systems to prevent flooding and overflow.</li> </ul>	Work Sites / during construction	Contractor		~			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Construction site should be provided with adequately designed perimeter channel and pre-treatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Work Sites / during construction	Contractor		√ 			EIAO-TM, WPCO, ProPECC PN 1/94

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation Agent	In	plem Stag	entat ges*	ion	Relevant Legislation and
	Measures	3		Des	С	ο	Dec	Guidelines
S3.4	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Work Sites / during construction	Contractor		✓ 			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Sediment tanks of sufficient capacity, constructed from pre- formed individual cells of approximately 6 to 8 m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Work Sites / during construction	Contractor		✓			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, ProPECC PN 1/94

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Im	nplem Sta	entat ges*	ion	Relevant Legislation and
		J J	Agent	Des	С	0	Dec	Guidelines
S3.4	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Work Sites / during construction	Contractor		1			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Wheel Washing Water All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Work Sites / during construction	Contractor		✓			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	Drainage It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge of effluent from the site into the sea.	Work Sites / during construction	Contractor		1			EIAO-TM, WPCO, ProPECC PN 1/94
S3.4	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms.The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Work Sites / during construction	Contractor		✓ 			EIAO-TM, WPCO, ProPECC PN 1/94

EIA Ref	Environmental Protection Measures / Mitigation	Location / Timing	Implementation	Im	plem Sta	entati ges*	ion	Relevant Legislation and
	Measures	g	Agent	Des	С	0	Dec	Guidelines
S3.4	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, ProPECC PN 1/94, WDO
S3.4	Sewage Effluent Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.	Work Sites / during construction	Contractor		✓ 			EIAO-TM, WPCO
S3.4	Stormwater Discharges Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes.	Work Sites / during construction	Contractor		√			EIAO-TM, WPCO, TM-DSS
S3.4	Debris and Litter In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur.	Work Sites / during construction	Contractor		$\checkmark$			EIAO-TM, WPCO, WDO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and
				Des	С	0	Dec	Guidelines
\$3.5	<ul> <li>Good Site Practices</li> <li>It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during construction activities include: <ul> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li> <li>Training of site personnel in proper waste management and chemical waste handling procedures</li> <li>Provision of sufficient waste disposal points and regular collection for disposal</li> <li>Appropriate measures to minimise windblown litter and dust during transportation of wastes in enclosed containers.</li> <li>A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites)</li> </ul> </li> </ul>	Work Sites / during construction	Contractor					EIAO-TM, WDO
S3.5	<ul> <li>Waste Reduction Measures</li> <li>Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices.</li> <li>Recommendations to achieve waste reduction include: <ul> <li>Sort C&amp;D waste from demolition of the remaining structures to recover recyclable portions such as metals.</li> <li>Segregation and storage of different types of waste in</li> </ul> </li> </ul>	Work Sites / during construction	Contractor					EIAO-TM, WDO

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and
		g		Des	С	0	Dec	Guidelines
	<ul> <li>bituminous materials or hardcores.</li> <li>The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.</li> <li>All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.</li> <li>The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.</li> <li>When delivering inert C&amp;D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&amp;D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the</li> </ul>			Des	C	0	Dec	Guidelines
	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.							
S3.5	System.         Chemical Waste         After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the	Work Sites / during construction	Contractor					Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and
				Des	С	ο	Dec	Guidelines
S3.8.12	<ul> <li>Construction Phase</li> <li>All existing trees should be carefully protected during construction.</li> <li>Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.</li> <li>Control of night-time lighting.</li> <li>Erection of decorative screen hoarding.</li> </ul>	Works area / During Construction Phase	Contractor	✓ 	1			EIAO-TM
S3.8.13	<ul> <li>Operation Phase</li> <li>Compensatory tree planting should be incorporated into the proposed projects where trees are affected.</li> <li>Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities.</li> <li>Sensitive streetscape design should be incorporated along all new roads to reflect the new urban development in Kai Tak.</li> <li>Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips and central dividers to enhance the townscape quality, where space is available.</li> <li>Aesthetically pleasing design as regard to the form, material and finishes should be incorporated to all buildings, engineering structures and associated infrastructure facilities.</li> </ul>	Project area / During Design stage and Operation Phase	CEDD			✓		EIAO-TM

#### Table 1.5 Implementation Schedule for Landscape and Visual Impacts

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

#### **Reporting Month: May 2021**

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

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

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

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