Environmental Monitoring and Audit Report for

Contract No. ED/2018/01 –

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

Contract No.: EDO 15/2018

April 2020

(Version 1.1)

Certified By:

(Environmental Team Leader)



Ref.: CEDKTDS4EM00 0 0072L.20

13 May 2020

By Post and E-mail

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 April 2020

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for April 2020 (Version 1.1) certified by the ET Leader and provided to us via email on 13 May 2020. Please be informed that we have no further comments on the captioned submission. We hereby verify the captioned submission in accordance with Condition 3.3 of EP-337/2009, Condition 3.2 of EP-445/2013 and Condition 3.2 of EP-445/2013/A.

The ET Leader is reminded that it is the ET's responsibility to ensure the reported information be true, valid and correct as per Condition 3.4 of EP-337/2009, Condition 3.3 of EP-445/2013 and Condition 3.3 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

Ray Yan

Independent Environmental Checker

c.c. CEDD Attn.: Mr. Ronald Siu Fax: 2739 0076

Ka Shing Attn.: Mr. Chan Pang By e-mail

Penta-Ocean Attn.: Mr. Daniel Ho Fax: 2572 4080

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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 30 April 2020.

Breaches of Action and Limit Levels

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

Table I Non-compliance Record in the Reporting Month

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

Complaint log

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

Table II Summary of complaints in the Reporting Month

Date of Notification from EPD	Date of compliant	Description of complaint	Recommendations / Action take	Close-out date / Status
No complaint	NA	NA	NA	NA

Date of Notification from EPD	Date of compliant	Description of complaint	Recommendations / Action take	Close-out date / Status
was received 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.

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

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action take	Close-out date / Status
No notification	NA	NA	NA	NA
notification				
of summons				
and				
successful				
prosecutions				
were				
received 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:
 - Ground investigation works
 - Sheet pile Installation at South Depressed Road
 - Pump Test in North Depressed Road Cofferdam
 - Bored Pile Construction for Bridge D3
 - ELS Installation & Excavation for North Depressed Road & North Approach Ramp

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	
Ground investigation works	Noise	
Excavation for North Approach Ramp	Air Quality	
Construction of base slab and wall for North Approach Ramp	Noise	
Bored Pile Construction for Bridge D3	Noise	
Sheet pile installation and ELS for Pipe Cap	Noise	
ELS Installation & Excavation for North Depressed Road	Noise and Air Quality	
Sheet pile installation, pumping test and ELS for Underpass	Noise	
and South Depressed Road		
Noise barrier – Trial pit and utilities diversion	Noise	
Elevated landscape deck – Predrilling works and bored pile	Noise	
Permanent Structure Construction for North Depressed Road	Noise and Air Quality	

1. INTRODUCTION

Project Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.
- 1.2 Contract No. ED/2018/01 Kai Tak Development stage 4 infrastructure at the former runway and south apron (The Project), comprises mainly the design and construction of a dual two- lane Road D3 (Metro Park Section), a single 2-lane Road L12d, a salt water pumping station, a sewage pumping station, landscaped deck and promenade above and adjoining Road D3 (Metro Park Section) respectively, some remaining road works at Road L14, noise barrier at Road D3A, and other associated works at the former runway and south apron. The proposed works are shown in Figure 1 and Figure 2. During the course of the Contract No. ED/2018/01, there may be modification of noise barriers in association with the construction of footbridges connecting to the landscaped deck of Road D3A by developers of adjacent lands (Figure 3). The proposed works and site boundary are shown in Figure 4.
- 1.3 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.

Table 1.1 Contact Information of Key Personnel

Party	Role	Contact Person	Position	Phone No.	Fax No.
Civil Engineering and	Project	Mr. Ronald Siu	Senior Engineer	3579 2452	2739 0076
Development Department (CEDD)	Proponent	Mr. Edwin Chan	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. Ray Yan	IEC	3465 2836	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	Ms. Juliet Ting	Environmental Officer	9555 8820	3465 8898

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:

Table 1.2 Major activities of the Project during reporting month



Ground investigation works



Pump Test in North Depressed Road Cofferdam



Sheet pile Installation at South Depressed Road



Bored Pile Construction for Bridge D3



ELS Installation & Excavation for North Depressed Road & North Approach Ramp

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.

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
Condition 1.11	Condition 1.12	Condition 1.12	Notification of Commencement Date of Construction of the Project	6 Jan 2020
Condition 2.3	Condition 2.3	Condition 2.3	Management Organization of Main Construction Companies	9 Sep 2019
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	2 Jan 2020
Condition 3.2	NA	NA	Baseline Monitoring Report	2 Jan 2020
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 (March 2020)	14 April 2020

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.

Table 2.1 Locations of Air Quality Monitoring Stations

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

Monitoring Parameters, Frequency and Duration

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

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

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

- 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.

Table 2.3 Air Quality Monitoring Equipment

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

- 2.7 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.
 - The sampler was more than 20m from the dripline.
 - 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. 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 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 Castco Testing Centre Limited for weighting.
- 2.18 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature was between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) was less than 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.19 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

2.20 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, initial/final reading at each sampling location for data processing.
- Recorded any activities that may generate dust during measurement period.

Maintenance/Calibration

- 2.21 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

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

Action and Limit Levels

2.27 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/m³
	AM3	182	260
24-hour average TSP	AM4(A)	187	260
	AM7	181	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/m³
	AM3	297	500
1-hour average TSP	AM4(A)	326	500
	AM7	315	500

Impact Air Quality Monitoring results

2.28 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.

<u>Table 2.6 Summary of 24-hour average TSP Monitoring Data during the reporting month</u>

Air Monitoring Station	Average TSP Concentration, µg/m ³	Range, μg/m ³	Action Level, μg/m ³	Limit Level, μg/m ³
AM3	65	33 – 111	182	260
AM4(A)	73	40 – 106	187	260
AM7	66	34 - 106	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/m³
AM3	51	31-72	297	500
AM4(A)	54	33-79	326	500
AM7	62	43-125	315	500

- 2.29 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting month.
- 2.30 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.

- 2.31 The Event and Action Plan is provided in Appendix I.
- 2.32 In the afternoon of 28 April 2020, 3 yachts caught fire in Kwun Tong Typhoon Shelter off Hoi Bun Road was occurred. Emergency personnel were called in soon after 1430 when a boat burst into flames and the flames had been extinguished by 1700. The fire may affect the 1-hour average TSP monitoring results at AM7 and 24-hour average TSP monitoring results at AM3, AM4(A) and AM7 on 28 April 2020.
- 2.33 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

3. NOISE MONITORING

Monitoring Requirements

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

Monitoring Locations

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

Table 3.1 Locations of Noise Monitoring Stations

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

Monitoring Parameters, Frequency and Duration

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

Table 3.2 Noise Monitoring Parameters, Frequency and Duration

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

- 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	1

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

Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level ^
0700 – 1900 on	M11	68.3	When one documented	75 dB(A)
normal weekdays	M12	61.9	complaint is received.	75 GD(71)

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 designed noise monitoring stations are summarized in Table 3.5 respectively.

Table 3.5 Summary of Noise Monitoring Data during the reporting month

Noise Monitoring Station	Measured L _{Aeq, 30-min} , Average, dB(A)	Measured L _{Aeq, 30-min} , Range, dB(A)	Action Level	Limit Level ^
M11	69.1	65.9 – 71.4	When one documented	75
M12	65.6	63.6 – 66.9	complaint is received	dB(A)

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

- 3.21 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.
- 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.

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

Air Monitoring Station	ASR No. in EIA report	24-hour av	Itration Scenario 2 (Mid 2013 to Late 2016), µg/m³	Measured 24-hr average TSP in Reporting Month (April 2020) µg/m ³
AM3 - Sky Tower	A40^	106	138	33 – 111
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	A43^	123	195	40 – 106
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	34 – 106

Note:

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

Air Monitoring Station	ASR No. in	Predicted Cumu 1-hour av concer	Measured 1-hr average TSP in Reporting	
	EIA report	Scenario 1 (Mid 2009 to Mid 2013), µg/m ³	Scenario 2 (Mid 2013 to Late 2016), µg/m ³	Month (April 2020) µg/m ³
AM3 - Sky Tower	A40	217^	247^	31 - 72
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	A43	283^	409^	33 - 79
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	43 - 125

Note:

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

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

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour LAeq, 30min, dB(A)	Measured Noise Level in Reporting Month (April 2020) L _{Aeq, 30min} , dB(A)
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	N18	50 – 76*	65.9 – 71.4
M12 - Hong Kong Children's Hospital	PN83, PN84, PN84A	NA	63.6 – 66.9

Note:

- 4.2 24-hour TSP monitoring results at AM3 was recorded higher than the Scenario 1 (Mid 2009 to Mid 2013) prediction but lower than the Scenario 2 (Mid 2013 to Late 2016) in the EIA Report. In the afternoon of 28 April 2020, 3 yachts caught fire in Kwun Tong Typhoon Shelter off Hoi Bun Road was occurred. The fire may affect the 24-hour average TSP monitoring result (i.e. 111 μg/m³) at AM3 on 28 April 2020.
- 4.3 24-hour TSP monitoring results at AM4(A) were recorded lower than the prediction in the EIA Report.
- 4.4 No prediction in the EIA Report for 24-hour TSP monitoring results at AM7.
- 4.5 1-hour TSP monitoring results at AM3, AM4(A) were recorded lower than the prediction in the EIA Report.
- 4.6 No prediction in the EIA Report for 1-hour TSP monitoring results at AM7.
- 4.7 Noise monitoring results at M11 was recorded lower than the prediction in the EIA Report.
- 4.8 No prediction in the EIA Report for noise monitoring results at M12.

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

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 2, 9, 16, 23 and 29 April 2020 in the reporting month.
- 5.4 The summaries of site audits are attached in Table 5.1.

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

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
2 Apr 2020	No	NA	NA
9 Apr 2020	No	NA	NA
16 Apr 2020	No	NA	NA
23 Apr 2020	No	NA	NA
29 Apr 2020	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 2, 9, 16, 23 and 29 April 2020 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
2 Apr	Observation: Dust suppression measures were not implemented on dusty road.	Action Taken: Water spraying was implemented.	Closed-out 9 Apr 2020
2020	Observation: The stagnant water was observed.	Action Taken: The stagnant water was cleared.	Closed-out 9 Apr 2020

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
	Observation: Accumulated waste was found.	Action Taken: Accumulated waste was removed.	Closed-out 9 Apr 2020
9 Apr 2020	Observation: Drip tray was not provided for the waste lubricant oil tank found under the mobile crane at north apron.	Action Taken: The waste lubricant oil tank was removed at north apron.	Closed-out 16 Apr 2020
	Observation: Dust suppression measures were not implemented on dusty road.	Action Taken: Water spraying system has been installed.	Closed-out 16 Apr 2020

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
16 Apr 2020	Observation: The open stockpiles of construction materials on sites were not covered.	Actions taken: The open stockpiles of construction materials on sites were covered.	Closed-out 23 Apr 2020
23 Apr 2020	No	NA	NA
29 Apr 2020	Observation: Dust suppression measures were not implemented on dusty road.	Action Taken: Water spraying system has been installed.	Closed-out 5 May 2020

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 and notifications are reported in Appendix O.

Table 6.2 Summary of Environmental Licenses, Notifications and Permits

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 Jun 2019	N/A
Wastewater Discharge License under WPCO	WT00034610-2019	26 Sep 2019	30 Sep 2024
Waste Disposal Billing Account	7034450	28 Jun 2019	N/A
Registration as a Chemical Waste Producer	5218-286-P3182-03	18 Jul 2019	N/A
Construction Noise Permit	GW-RE0786-19	5 Oct 2019	4 Apr 2020
	GW-RE0880-19	30 Oct 2019	27 Apr 2020
	GW-RE0132-20	13 Mar 2020	12 Sep 2020
	GW-RE0150-20	24 Mar 2020	23 Aug 2020
	GW-RE0173-20	28 Apr 2020	27 Oct 2020
	GW-RE0228-20	5 Apr 2020	4 Sep 2020

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

Environmental Complaint and Non-compliance

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

Table 6.3 Summary of complaints in the Reporting Month

Date of Notification from EPD	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

6.10 Complaint log is shown in Appendix Q.

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.

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
No notification of summons and successful prosecutions were received in the reporting month.	NA	NA	NA	NA

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

7. FUTURE KEY ISSUES

Construction Programme in the coming month

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

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

Future key issues in the coming month	Potential impact
Ground investigation works	Noise
Excavation for North Approach Ramp	Air Quality
Construction of base slab and wall for North Approach Ramp	Noise
Bored Pile Construction for Bridge D3	Noise
Sheet pile installation and ELS for Pipe Cap	Noise
ELS Installation & Excavation for North Depressed Road	Noise and Air Quality
Sheet pile installation, pumping test and ELS for Underpass	Noise
and South Depressed Road	
Noise barrier – Trial pit and utilities diversion	Noise
Elevated landscape deck – Predrilling works and bored pile	Noise
Permanent Structure Construction for North Depressed Road	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

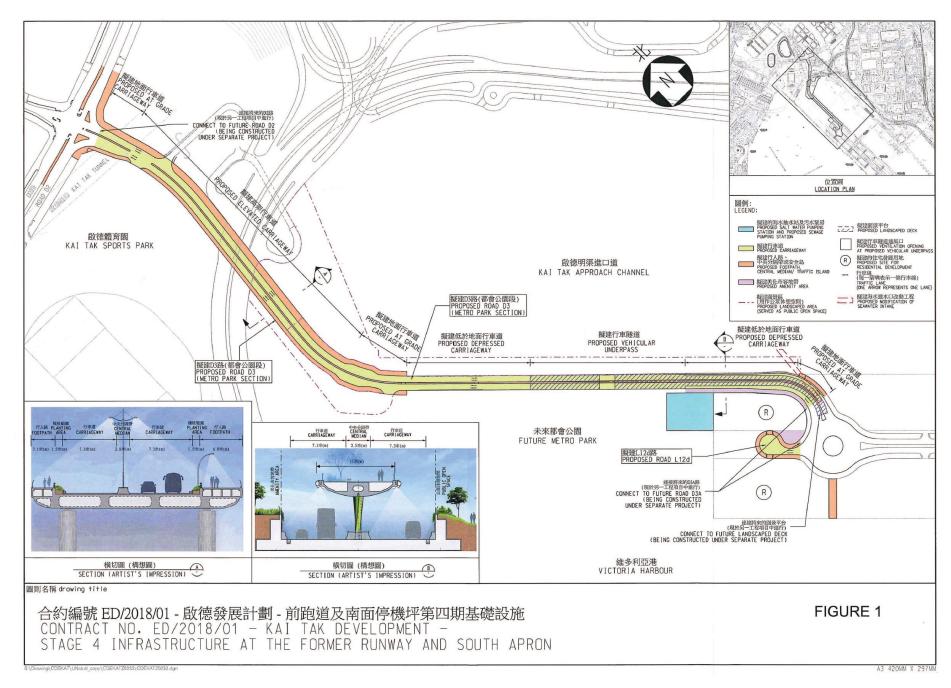


Figure 1 – Proposed works of Contract No. ED/2018/01

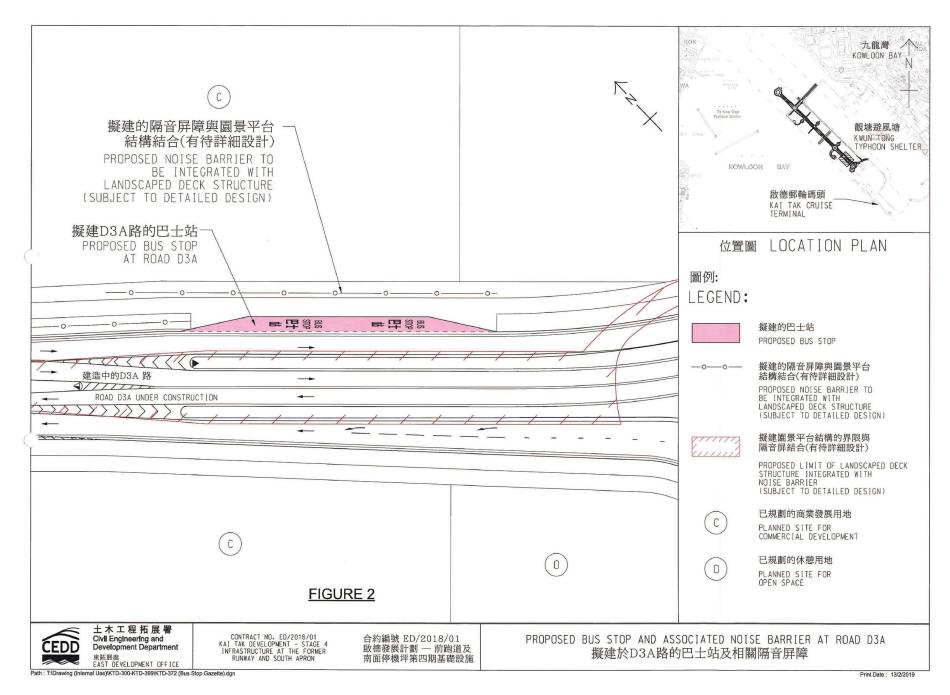


Figure 2 – Proposed Bus Stop And Associated Noise Barrier At Road D3A

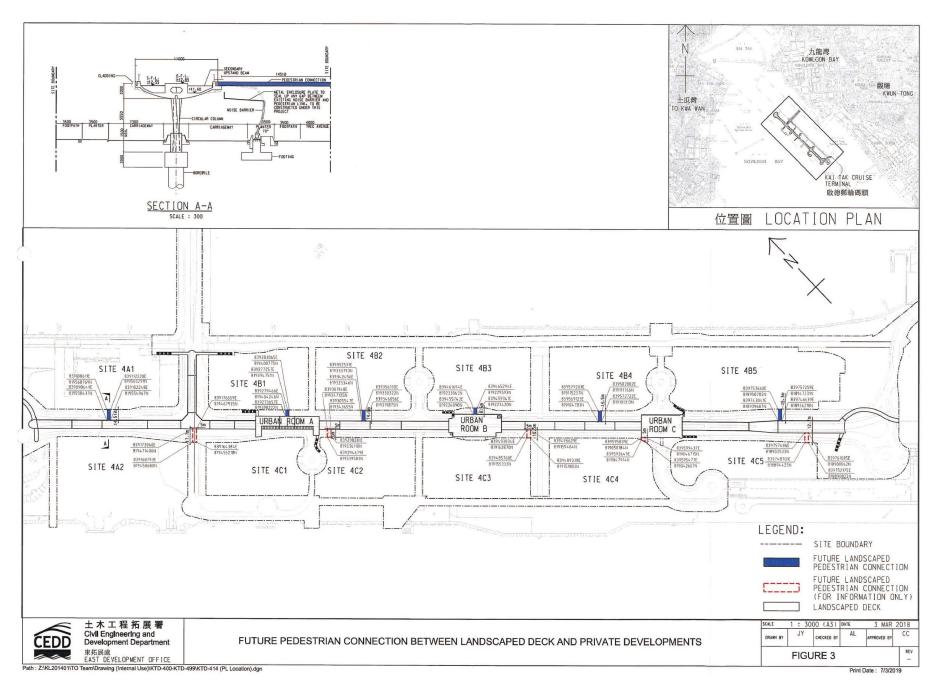


Figure 3 – Future Pedestrian Connection Between Landscaped Deck And Private Developments

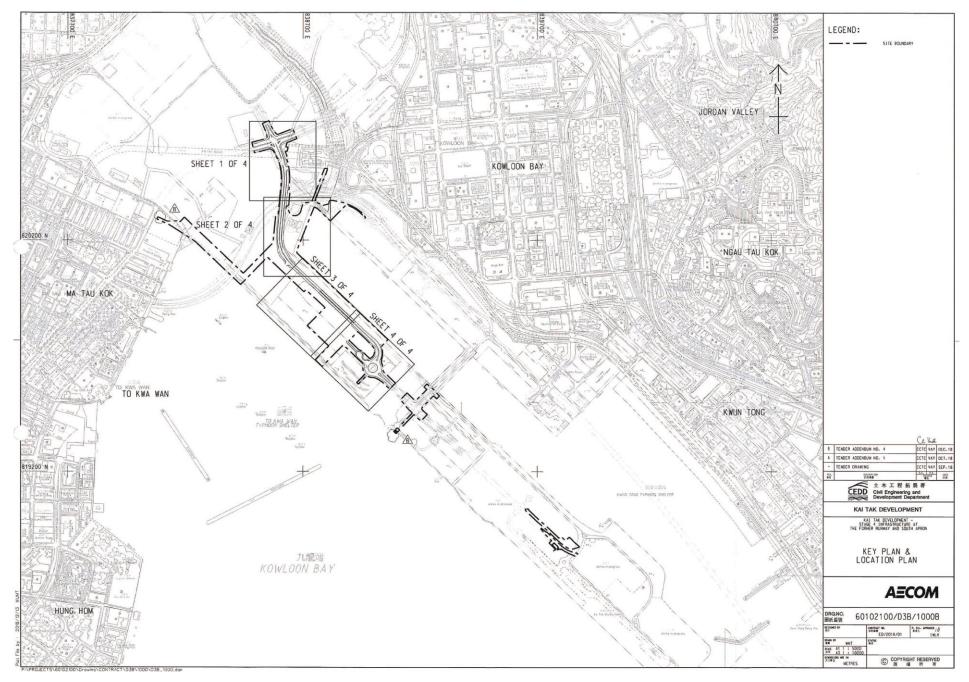


Figure 4 – Site Layout Plan

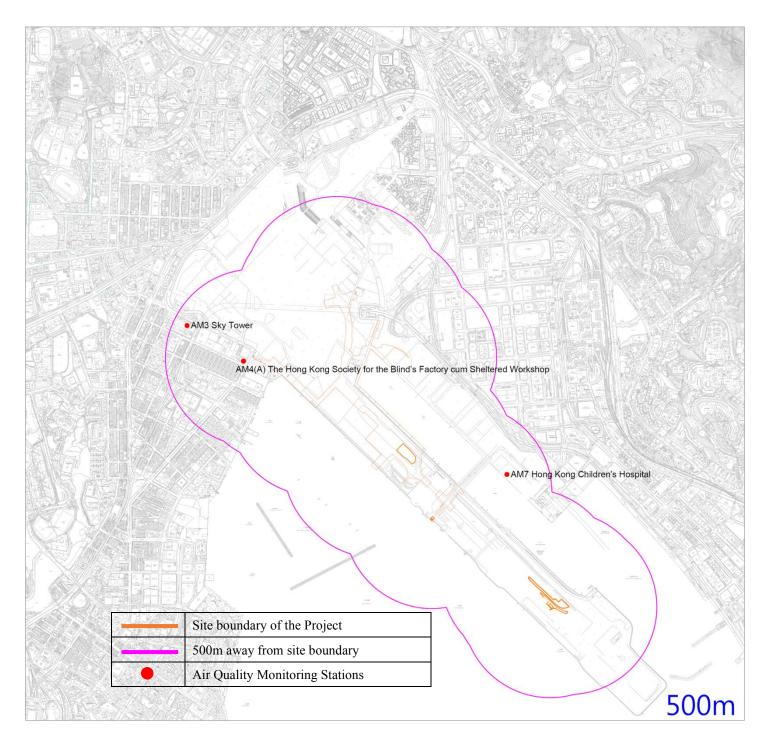


Figure 5 – Air Quality Monitoring Stations

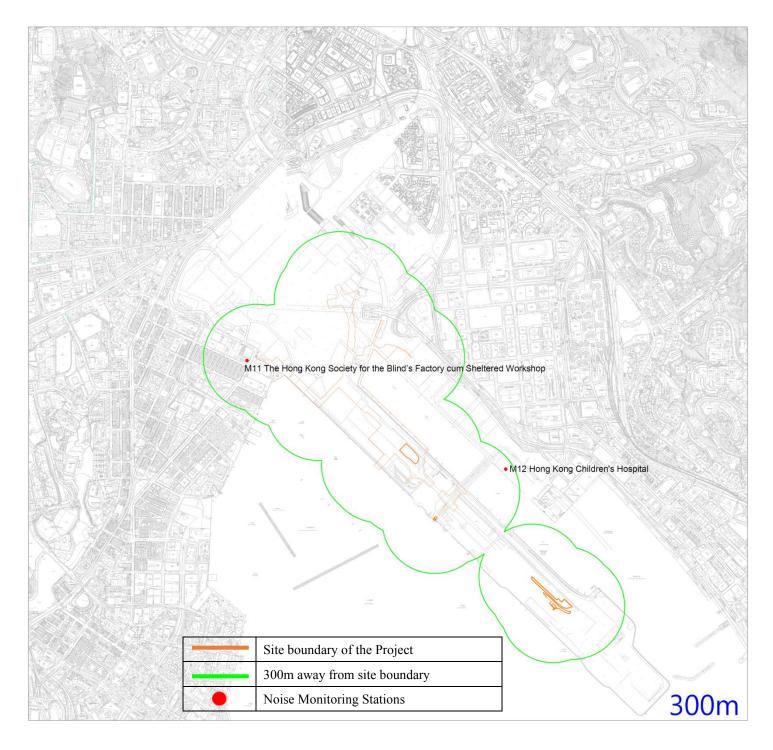
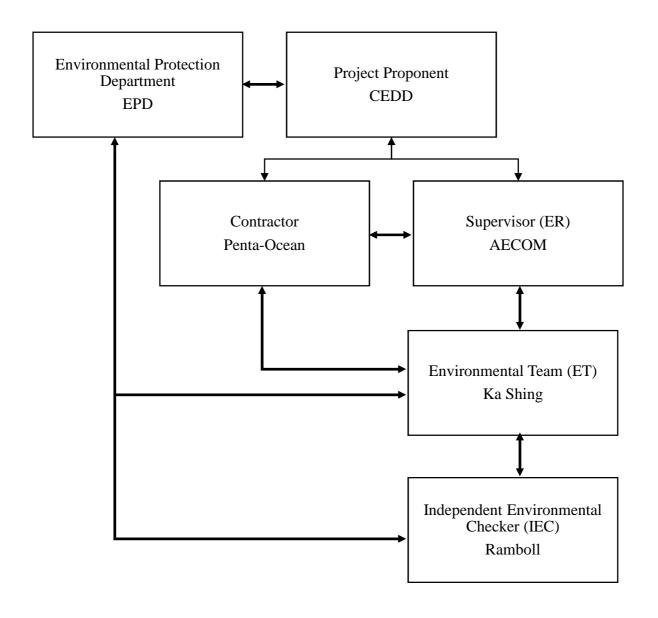


Figure 6 – Noise Monitoring Stations

Appendix A – Organization Chart of EM&A Team



← Link of communication

Appendix B – Construction Programme

							22092019_Rev	rised Programme with	Progress Update as o	of 22-Sep-19)			
T	ask Name	Duration	Remaining Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical %	Free Slack	Time Risk Allowance	es Slack 2019 2020 2021 2022 2023	2024
1 6	wainst Dates	1941 dove	1941 days	May 16, 2010	NA	Mov 16, 2010	May 20, 2024	May 16, 2010	May 20, 2024	Complete	O days	(TRA)		H2 H1
_	roject Dates Contract Date	1841 days 0 days	1841 days 0 days	May 16, 2019 May 16, 2019	May 16, 2019	May 16, 2019 May 16, 2019	May 29, 2024 May 16, 2019	May 16, 2019 May 16, 2019	May 29, 2024 May 16, 2019	0%	0 days	0 days 0 days	0 days 0 days Contract Date	
3	Date of Commencement & Completion (CDP1: Item 3)	1827 days	1827 days	May 30, 2019	NA	May 30, 2019	May 29, 2024	May 30, 2019	May 29, 2024	0%	0 days		0 days	
4	Starting Date (CDPart1: Item 3)	0 days	0 days	May 30, 2019	May 30, 2019	May 30, 2019	May 30, 2019	May 30, 2019	May 30, 2019	100%	0 days	0 days	0 days Starting Date (CDPart1: Item 3)	
5	Completion Date	0 days	0 days	NA	NA	May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023	0%	0 days	0 days		npletion Date
6	Establishment Work	365 days	365 days	NA	NA	May 31, 2023	May 29, 2024	May 31, 2023	May 29, 2024	0%	0 days	0 days	0 days	<u> </u>
7	Schedule of Access Dates (CDP1: Item 3[TA No.1)	1221 days	1221 days	May 30, 2019	NA	May 30, 2019	October 2, 2022	May 30, 2019	October 2, 2022	0%	0 days	0 days	0 days Schedule of Access	s Dates (CDP1:
8	Access Date - Part 1, 6A,6B,9A,9B	0 days	0 days	May 30, 2019	May 30, 2019	May 30, 2019	May 30, 2019	May 30, 2019	May 30, 2019	100%	0 days	0 days	0 days Access Date - Part 1 6A 6B,9A,9B	
9	Access Date - Part 2A,2C	0 days	0 days	NA	NA	June 2, 2020	June 2, 2020	June 2, 2020	June 2, 2020	0%	0 days	0 days	0 days Access Date - Part 2A,2C	
10	Access Date - Part 2B	0 days	0 days	NA	NA	January 31, 2021	January 31, 2021	January 31, 2021	January 31, 2021	0%	0 days	0 days	0 days Access Date - Part 2B	
11	Access Date - Part 2E	0 days	0 days	NA	NA	October 2, 2022	October 2, 2022	October 2, 2022	October 2, 2022	0%	0 days	0 days	0 days Access Date - Part 2	2E
12	Access Date - Part 3A	0 days	0 days	NA	NA	March 6, 2022	March 6, 2022	March 6, 2022	March 6, 2022	0%	0 days	0 days	0 days Access Date - Part 3A	
13	Access Date - Part 3B,4	0 days	0 days	NA	NA	March 5, 2021	March 5, 2021	March 5, 2021	March 5, 2021	0%	0 days	0 days	0 days Access Date - Part 3B,4	
14	Access Date - Part 3C,3D,3E,3G,3I	0 days	0 days	NA	NA	December 2, 2019	December 2, 2019	December 2, 2019	December 2, 2019	0%	0 days	0 days	0 days Access Date - Part 3C,3D,3E,3G,3I	
15	Access Date - Part 3F	0 days	0 days	NA	NA	June 3, 2022	June 3, 2022	June 3, 2022	June 3, 2022	0%	0 days	0 days	0 days Access Date - Part 3F	
16	Access Date - Part 3H,7A,7B,8,9 (TA No.1)	0 days	0 days	NA	NA	August 31, 2021	August 31, 2021	August 31, 2021	August 31, 2021	0%	0 days	0 days	0 days Access Date - Part 3H,7A,7B,8,9 (TA No.1)	
17	Access Date - Part 10	0 days	0 days	NA	NA	June 2, 2021	June 2, 2021	June 2, 2021	June 2, 2021	0%	0 days	0 days	0 days Access Date - Part 10	
18	Access Date - Area WA1	0 days	0 days	May 30, 2019	May 30, 2019	May 30, 2019	May 30, 2019	May 30, 2019	May 30, 2019	100%	0 days	0 days	0 days Access Date - Area WA1	
19	Schedule of Time for Ordering (CDP1: Item Cl.B5)	695 days	695 days	July 5, 2019	NA	July 5, 2019	May 30, 2021	July 5, 2019	May 30, 2021	0%	0 days	0 days	0 days Schedule of Time for Ordering (CDP1: Item Cl.B5)	5)
20	Time for Ordering "Section Subject to Excision" - Section 4	0 days	0 days	NA	NA	June 2, 2020	June 2, 2020	June 2, 2020	June 2, 2020	0%	0 days	0 days	0 days Time for Ordering "Section Subject to Excision" - Section 4	
21	Time for Ordering "Costion Subject to Euclidea" Costian C	0 days	0 days	NA	NA	luno 2, 2020	luno 2, 2020	luno 2, 2020	luno 2, 2020	0%	0 day::	0 days	0 days Time for Ordering "Section Subject to Excision" - Section 8	
21	Time for Ordering "Section Subject to Excision" - Section 8	0 days	0 days	INA	INA	June 2, 2020	June 2, 2020	June 2, 2020	June 2, 2020	0%	0 days	0 days	0 days Time for Ordering Section Subject to Excision - Section 8	
22	Time for Ordering "Section Subject to Excision" - Section 9	0 days	0 days	July 5, 2019	July 5, 2019	July 5, 2019	July 5, 2019	July 5, 2019	July 5, 2019	100%	0 days	0 days	0 days Time for Ordering Section Subject to Excision - Section 9	
														C41 - 10
23	Time for Ordering "Section Subject to Excision" - Section 10	0 days	0 days	NA	NA	May 30, 2021	May 30, 2021	May 30, 2021	May 30, 2021	0%	0 days	0 days	0 days Time for Ordering "Section Subject to Excision" -	- Section 10
24	Schedule of Key Dates (CDP1: Item 3[TA No.1])	665 days	665 days	NA	NA	August 7, 2020	June 3, 2022	August 7, 2020	June 3, 2022	0%	0 days	0 days	0 days Schedule of Key Dates (CD	DP1: Item 3ITA
25	KD1	0 days	0 days	NA	NA NA	August 7, 2020	August 7, 2020	August 7, 2020	August 7, 2020	0%	0 days	0 days	0 days	
26	KD2	0 days	0 days	NA	NA	April 18, 2021	April 18, 2021	April 18, 2021	April 18, 2021	0%	0 days	0 days	0 days KP2	
27	KD3	0 days	0 days	NA	NA	June 1, 2021	June 1, 2021	June 1, 2021	June 1, 2021	0%	0 days	0 days	0 days KD3	
28	KD4	0 days	0 days	NA	NA	January 31, 2022		January 31, 2022	January 31, 2022	0%	0 days	0 days	0 days KD4	
29	KD5	0 days	0 days	NA	NA				September 17, 202		0 days	0 days	0 days KD5	
30	KD6	0 days	0 days	NA	NA				December 29, 2021		0 days	0 days	0 days	
31	KD7	0 days	0 days	NA	NA	June 3, 2022	June 3, 2022	June 3, 2022	June 3, 2022	0%	0 days	0 days	0 days KD7	
32	Schedule of Section Completion (CDP1 Cl. X5)	1092 days	1092 days	NA	NA	June 2, 2021	May 29, 2024	June 2, 2021	May 29, 2024	0%	0 days	0 days	0 days	
33	Section Completion Date Section 1	0 days	0 days	NA	NA	March 1, 2022	March 1, 2022	March 1, 2022	March 1, 2022	0%	0 days	0 days	0 days Section Completion Date Section	on 1
34	Section Completion Date Section 2	0 days	0 days	NA	NA	June 2, 2021	June 2, 2021	June 2, 2021	June 2, 2021	0%	0 days	0 days	0 days Section Completion Date Section 2	
35	Section Completion Date Section 3	0 days	0 days	NA	NA	November 2, 2021	November 2, 2021	November 2, 2021	November 2, 2021	0%	0 days	0 days	0 days Section Completion Date Section 3	
36	Section Completion Date Section 4	0 days	0 days	NA	NA	May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023	0%	0 days	0 days	0 days Sect	tion Completio
37	Section Completion Date Section 5	0 days	0 days	NA	NA	July 5, 2021	July 5, 2021	July 5, 2021	July 5, 2021	0%	0 days	0 days	0 days Section Completion Date Section 5	
38	Section Completion Date Section 6	0 days	0 days	NA	NA	May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023	0%	0 days	0 days	0 days Sect	tion Completio
39	Section Completion Date Section 7	0 days	0 days	NA	NA	May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024	0%	0 days	0 days	0 days	
40	Section Completion Date Section 8	0 days	0 days	NA	NA	December 2, 2021	December 2, 2021	December 2, 2021	December 2, 2021	0%	0 days	0 days	0 days Section Completion Date Section 8	
41	Section Completion Date Section 9	0 days	0 days	NA	NA	July 5, 2021	July 5, 2021	July 5, 2021	July 5, 2021	0%	0 days	0 days	0 days Section Completion Date Section 9	
42	Section Completion Date Section 10	0 days	0 days	NA	NA	May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023	0%	0 days	0 days	0 days Sect	tion Completio
43 P	re-meeting of ACABAS	153 days	153 days	NA	NA	November 29, 2019	April 30, 2020	May 29, 2024	May 29, 2024	0%	1491 d		1491 d Pre-meeting of ACABAS	
44	Design Working Group Meeting	0 days	0 days	NA	NA	November 29, 2019	November 29, 2019	May 29, 2024	May 29, 2024	0%	1644 d		1644 d Design Working Group Meeting	
45	Task Force on Kai Tak Harbourfront Development Meeting	0 days	0 days	NA	NA	January 31, 2020	January 31, 2020	May 29, 2024	May 29, 2024	0%	1581 d		1581 d	
46	District Council Consultation	0 days	0 days	NA	NA	April 30, 2020	April 30, 2020	May 29, 2024	May 29, 2024	0%	1491 d		1491 d District Council Consultation	
47 F	roject Submission	853 days	679.02 days	May 16, 2019	NA	May 16, 2019	September 14, 20	May 16, 2019	May 29, 2024	0%	988 days	0 days	988 days Project Submission	
48	Submit Third Parties Insurance	71 days	0 days	June 18, 2019	August 27, 2019	June 18, 2019		June 18, 2019	August 27, 2019	100%	0 days	0 days	0 days Submit Third Parties Insurance	
49	Submit Professional Indemnity Insurance	29.39 days	14 days	June 11, 2019	NA	June 11, 2019	October 22, 2019	June 11, 2019	May 29, 2024	52%	2 days	0 days	1681.1 Submit Professional Indemnity Insurance	
50	Review, Comment and Acceptance of Insurances by Project	139.1 days	50 days	June 13, 2019	NA	June 13, 2019	November 11, 2019	June 13, 2019	May 29, 2024	64%		0 days	1661 Review, Comment and Acceptance of Insurances by Project Manager	
51	Manager Works Programme	160 days	60.42 days	May 16, 2019	NA	May 16, 2019	October 22, 2019	May 16, 2019	June 1, 2020	0%	days 223 days		days 223 days	
51 52	Submit First Programme	20 days	0 days	May 16, 2019	June 4, 2019	May 16, 2019 May 16, 2019	June 4, 2019	May 16, 2019 May 16, 2019	June 1, 2020 June 4, 2019	100%	0 days		0 days Submit First Programme	
53	Review and Comment by Project Manager	9 days	0 days	June 5, 2019	June 13, 2019	June 5, 2019	June 13, 2019	June 5, 2019	June 13, 2019	100%	0 days		0 days Review and Comment by Project Manager	
54	Revise and Resubmission of Works Programme	30 days	9.21 days	June 14, 2019	NA	June 14, 2019	October 2, 2019	June 14, 2019	May 11, 2020	69%		0 days	222.79 Revise and Resubmission of Works Programme	
55	Final Review and Acceptance of the First Programme by	21 days	21 days	NA	NA NA	October 2, 2019		May 12, 2020	June 1, 2020	0%	218.79	0 days	222.79 Final Review and Acceptance of the First Programme by Project Manager	
55	Project Manager					500500 2, 2015	20, 2013	, 12, 2020	23 2, 2020	5,3	days	3 44,5	days	
56	Submit Health and Safety Management Plan (ACC Cl. D6(2))	6 days	0 days	May 30, 2019	June 4, 2019	May 30, 2019	June 4, 2019	May 30, 2019	June 4, 2019	100%	0 days	0 days	0 days Submit Health and Safety Management Plan (ACC CI. D6(2))	
	Color to Date that Date are	12.1	42.1	110		Outsk 20 com	Name of the second	Mary 46, 200	14 20 205	00/	4.000	0.4	deca	
57	Submit Detailed Programme for Safety Risk (ER Part 7, Cl. 7.3.4)	12 days	12 days	NA	NA	October 29, 2019	November 9, 2019	May 18, 2024	May 29, 2024	0%	1663 days	0 days	1663 Submit Detàiled Programmel for Safety Risk (ER Part 7, Cl. 7.3.4)	
58	Submit Environmental Management Plan (ACC Cl. D20(2))	6 days	0 days	May 30, 2019	June 4, 2019	May 30, 2019	June 4, 2019	May 30, 2019	June 4, 2019	100%	0 days	0 days	0 days Submit Environmental Management Plan (ACC CI, D20(2))	
	• • • • • • • • • • • • • • • • • • • •	.,-	.,.	, ., .==		, ,, , ===		, , , ,	,		- /-	,		
59	Submit QA/QC Manual	14 days		NA	NA	October 25, 2019	November 7, 2019		May 29, 2024	0%	1665 d	0 days	1665 d Submit QA/QC Manual	
60	Submit BIM Models Deliverables	103 days	41.33 days	August 19, 2019	NA	August 19, 2019	November 30, 2019	August 19, 2019	May 29, 2024	0%	1643 d		1643 d Submit BIM Models Deliverables	
00	Existing Site Model (Topography)	5 days	0 days	August 19, 2019	August 23, 2019	August 19, 2019	August 23, 2019	August 19, 2019	August 23, 2019	100%	0 days		O days Existing Site Model (Topography)	
61														
61	ed Programme Critical Tools			anual Task	Duration	only	Raselina Milortona) C,	many		ternal Tacks		Inactive Milestone Receipe Summany	
61 le: Revis	ed Programme- D18/01 with Progress Critical Split Split			anual Task art-only	Duration-o Baseline	only	Baseline Milestone Milestone				ternal Tasks ternal Milest	one ♦	Inactive Milestone Baseline Summary Inactive Summary	
ED/20			St.				Baseline Milestone Milestone Summary Progress	Manu	nary ual Summary ct Summary	Ext		one ♦	Inactive Milestone Baseline Summary Inactive Summary Deadline	

							22092019_Rev	vised Programme with	Progress Update as o	22-Sep-19			
ID T	ask Name	Duration		Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Fre		ime Risk To	
			Duration							% Sla		Allowances SI TRA)	H1
62	Existing Underground Utilities (UU) Model	5 days	0 days		August 30, 2019		August 30, 2019		August 30, 2019	100% 0 d			ays Sun September 22) Underground Utilities (UU) Model
63	3D Digital Survey For Existing Conditions 3D Photogrametry Model	28 days	4.8 days 40.02 days	September 2, 2019 September 16, 201				9 September 2, 2019			03 d 70.9		03 d 3D Digital Survey For Existing Conditions
64	AIP Model	46 days 18 days	1.08 days	September 6, 2019				September 16, 2019 9 September 6, 2019			09.9		09.9 AIP Model
66	Interfacing Contract Model	15 days	1.05 days	September 9, 2019				9 September 9, 2019	-, -, -		09.9		19.9 Interfacing Contract Model
67	Monthly Updated BIM Model	0 days	0 days	NA	NA	October 31, 2019	October 31, 2019	October 31, 2019	October 31, 2019	0% 0 d	lays	0	ays Monthly Updated BIM Model
68	4D Model Linked Up with Programme	0 days	0 days	NA	NA	October 31, 2019	October 31, 2019	October 31, 2019	October 31, 2019	0% 0 d	lays	0 (ays AD Model Linked Up with Programme
69	Construction Method Simulation (CMS) in 3D Model	0 days	0 days	NA	NA			November 30, 2019			lays		construction Method Simulation (CMS) in 3D Model
70	BIM Deliverables Schedule Establish BIM Team	77 days 0 days	77 days 0 days	August 16, 2019 August 16, 2019	NA August 16, 2019	August 16, 2019 August 16, 2019	October 31, 2019 August 16, 2019	August 16, 2019 August 16, 2019	October 31, 2019 August 16, 2019	100% 0 d	lays lays		ays
72	BIM Execution Plan	0 days	0 days	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019		100% 0 d			ays SIIM Execution Plan
73	BIM Submission Schedule	0 days	0 days	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019	100% 0 d	lays	0	ays 🕒 BIM Submission Schedule
74	BIM 360 License	0 days	0 days	August 31, 2019	August 31, 2019	August 31, 2019	August 31, 2019	August 31, 2019	-		lays		ays • IIIM 360 License
75	BIM/Drawing Management Software System CDE Setup	0 days	0 days 0 days	August 31, 2019	August 31, 2019		August 31, 2019	August 31, 2019 September 9, 2019	August 31, 2019 September 9, 2019	100% 0 d			ays
76 77	Clash Report Format	0 days 0 days	0 days				-	September 9, 2019	September 9, 2019		lays		ays Qle Setup Qlesh Report Format
78	Monthly Report Format	0 days	0 days					September 9, 2019	<u> </u>				ays Monthly Report Format
79	Quality Assurance Plan for BIM	0 days	0 days					9 September 30, 2019			lays	0	ays Quality Assurance Plan for BIM
80	BIM Training Plan	0 days	0 days					9 September 30, 2019			lays		ays BIM Training Plan
81	BIM Training Schedule for CIC Training 4 Sets of BIM Software, Hardware and Server	0 days	0 days 0 days	September 30, 201	9 September 30, 201 NA	9 September 30, 2019 October 31, 2019	September 30, 2019 October 31, 2019	9 September 30, 2019 October 31, 2019	September 30, 2019 October 31, 2019		lays		ays BIM Training Schedule for CIC Training 4 Sets of BIM Software, Hardware and Server
82	Monthly BIM Progress Report	0 days 0 days	0 days	NA NA	NA NA	October 31, 2019 October 31, 2019	October 31, 2019 October 31, 2019	<u> </u>	October 31, 2019 October 31, 2019				ays Monthly BIM Progress Report Monthly BIM Progress Report
84	Monthly Clash Report	0 days	0 days	NA	NA	October 31, 2019	October 31, 2019		October 31, 2019		lays		ays Monthly Clash Report
85	BIM Object Libraries	0 days	0 days	NA	NA	October 31, 2019	October 31, 2019	October 31, 2019	October 31, 2019	0% 0 d	lays	0	ays BIM Object Libraries
86	Temporary Traffic Management	839 days		May 30, 2019	NA	May 30, 2019	September 14, 20				8 days		B days Submit Traffic Engineering Consultant and TTM Team Leader (PSI.16(3))
87	Submit Traffic Engineering Consultant and TTM Team Leader (PS1.16(3))	14 days	0 days	May 30, 2019	June 12, 2019	May 30, 2019	June 12, 2019	May 30, 2019	June 12, 2019	100% 0 d	lays 0	days 0	ays Submit I raffic Engineering Consultant and ITIM Team Leader (PSL.16(3))
88	Submit Road Closure Implementation Plan (PS1.14A(2)) withir 14d after acceptance of Works Programme	14 days	14 days	NA	NA	November 1, 2019	November 14, 2019	May 16, 2024	May 29, 2024	0% 165		days 16	
89	Submit EP Mgt System Co-ordinator (PS Cl. 1.18N(2))	7 days	0 days	May 30, 2019	June 5, 2019	May 30, 2019	June 5, 2019	May 30, 2019	June 5, 2019	100% 0 d	lays 0	days 0	ays Submit EP Mgt System Co-ordinator (PS CI. 1.18N(2))
90	Approve of EP Co-ordinator by Project Manager (PS Cl. 1.18N(2))	14 days	0 days	June 6, 2019	June 19, 2019	June 6, 2019	June 19, 2019	June 6, 2019	June 19, 2019	100% 0 d	lays 0	days 0	ays Approve of EP Co-ordinator by Project Mahager (PS Cl. 1.18N(2))
91	Submit UU detection equipment for Supervisor approval (PS Cl. 1.25A(1))	7 days	0 days	May 30, 2019	June 5, 2019	May 30, 2019	June 5, 2019	May 30, 2019	June 5, 2019	100% 0 d	lays 0	days 0	ays Submit UU detection equipment for Supervisor approval (FS CI. 1 25A(1))
92	Submit & obtain approval: site office's location and layout pla (PS Cl. 1.45(11)) (7d submission + 14d approval)	n 31 days	10 days	May 30, 2019	NA	May 30, 2019	October 2, 2019	May 30, 2019	May 29, 2024	100% 170 day		days 17	
		24.1	0.1							,			
93	Submit Site survey record (PS Cl.1.47(7)) Submit & obtain approval: fencing & hoarding plan (PS Cl.	34 days 5 days	0 days 5 days	May 30, 2019 NA	July 2, 2019 NA	May 30, 2019 October 2, 2019	July 2, 2019 October 6, 2019	May 30, 2019 November 4, 2019	July 2, 2019 November 8, 2019				ays Submit size survey record (PS CI, 1.47(7)) days Submit & obtain approval; fencing & hoarding plan (PS CI, 1.48(10))
	1.48(10)												
95	Submit site facilities (PS Cl. 1.50S) Submit security system (PS Cl. 1.53A(5))	65 days 36 days	0 days 0 days	May 30, 2019	August 2, 2019	May 30, 2019	August 2, 2019 July 4, 2019	May 30, 2019	August 2, 2019 July 4, 2019				ays Submit site facilities (PS Cl. 1.50\$) ays Submit security system (PS Cl. 1.53A(5))
96 97	Submit Weather Protection Scheme (PS Cl. 1.87 (1))	12 days	0 days	May 30, 2019 October 15, 2019	July 4, 2019 October 26, 2019	May 30, 2019 October 15, 2019	October 26, 2019	May 30, 2019 October 15, 2019	October 26, 2019				ays Submit security system (PS CI. 1,53A(5)) ays Submit Weather Protection Scheme (PS CI. 1,87 (1))
98	Submit Interface Management Plan (PS Cl. 1.89(2))	47 days	0 days	May 30, 2019	July 15, 2019	May 30, 2019	July 15, 2019	May 30, 2019	July 15, 2019				ays Submit Interface Management Plan (PS Cl. 1.89(2))
99	Submit Subcontractor Management Plan (ACC Cl. C5(1))	13 days	0 days	May 30, 2019	June 11, 2019	May 30, 2019	June 11, 2019	May 30, 2019	June 11, 2019	100% 0 d	lays 0	days 0	ays Submit Subcontractor Management Plan (ACC CI. C5(1))
100	Submit Temporary Drainage and Sewerage Management Plan	45 days	33.12 days	May 30, 2019	NA	May 30, 2019	October 26, 2019	May 30, 2019	August 7, 2020	32% 33.	.88 0	days 28	5.88 Submit Temporary Drainage and Sewerage Management Plan (PS Cl. 1.24A(1))
101	(PS Cl. 1.24A(1))	12 days	12 days	NA	NA	January 2, 2020	January 12, 2020	Fahruary 1, 2020	Fahruaru 12, 2020	day			days
101	Submit Piling Programme (PS Cl. 8.35D) Submit EM&A Manual (ER Part 8, Cl. 8.2)	12 days 6 days	12 days 0 days	NA May 30, 2019	NA June 4, 2019	January 2, 2020 May 30, 2019	January 13, 2020 June 4, 2019	February 1, 2020 May 30, 2019	February 12, 2020 June 4, 2019		days 0 lays 0		days Submit Piling Programme (PSCI. 8.35D) ays Submit EM&A Manual (ER Part 8, Cl. 8.2)
102	Submit Proposal of selection of suppliers of Plant and	80 days	0 days	May 30, 2019	August 17, 2019	May 30, 2019	August 17, 2019	May 30, 2019			lays 0		ays Submit Proposal of selection of suppliers of Plant and Materials (ACC Cl. C11(1)
104	Materials (ACC Cl. C11(1) Submit Contractor's Management Team (ACC Cl. D1(3))	50 days	0 days	May 30, 2019	July 18, 2019	May 30, 2019	July 18, 2019	May 30, 2019	July 18, 2019				ays Submit Contractor's Management Team (ACC Cl. D1(3))
105	Permanent Works Design Submission	839 days	705.7 days	May 30, 2019	NA	May 30, 2019	September 14, 20		November 15, 2022		7 days	,	7 days Permanent Works Design Submission
106	General Design Submission	192 days	43.98 days	May 30, 2019	NA NA	May 30, 2019	December 7, 2019		December 10, 2019		lays		ays General Design Submission
107	Project Design Plan (Draft)	16 days	0 days	May 30, 2019	June 14, 2019	May 30, 2019	June 14, 2019	May 30, 2019			-		ays Project Design Plan (Draft)
108	Project Design Plan (Draft) Comment by PM	14 days	0 days	June 15, 2019	June 28, 2019	June 15, 2019	June 28, 2019	June 15, 2019			lays		ays Project Design Plan (Draft) Comment by PM
109	Address Comments	66 days	0 days	July 2, 2019	September 5, 2019		September 5, 2019		September 5, 2019		lays 1		ays Address Comments 8 days Project Design Plan (Final)
110 111	Project Design Plan (Final) Design Memorandum (Draft)	19 days 26 days	15.2 days 0 days	September 5, 2019 June 4, 2019	NA June 29, 2019	September 5, 2019 June 4, 2019	October 8, 2019 June 29, 2019	September 5, 2019 June 4, 2019	December 10, 2019 June 29, 2019		.8 days 0 lays 0		8 days Project Design Plan (Final) ays Design Memorandum (Draft)
112	Address Comments	15 days	0 days	August 1, 2019	August 15, 2019	August 1, 2019	August 15, 2019	August 1, 2019	August 15, 2019		lays 0		ays Address Comments
113	Design Memorandum (Final)	5 days	5 days	July 23, 2019	NA	July 23, 2019	September 27, 2019		December 10, 2019		days 0	-	days Design Memorandum (Final)
114	Traffic Impact Assessment(Draft)	25 days	4 days	September 16, 201				September 16, 2019			lays 1		ays Traffic Impact Assessment(Draft)
115	Address Comments Traffic Impact Assessment/Finally	28 days	28 days	NA NA	NA NA		November 7, 2019		November 15, 2019		lays 0.		ays Address Comments August Traffic Impact Assessment(Final)
116 117	Traffic Impact Assessment(Final) ACABAS (Draft)	25 days 69 days	25 days 0 days	NA May 30, 2019	NA August 6, 2019	May 30, 2019	August 6, 2019	November 16, 2019 May 30, 2019			lays 0. lays 2		ays ACABAS (Draft)
117	Address Committee's comments	51 days	6 days	August 7, 2019	NA	August 7, 2019	September 28, 2015		December 10, 2019		days 2		days Ad dress Committee's comments
119	ACABAS (Final)	25 days	0 days	August 28, 2019	September 21, 201		September 21, 201		September 21, 2019		lays 1		ays ACABAS (Final)
Title: Revis	ed Programme- Critical Task	_	M	lanual Task	Duration-c	nly	Baseline Milestone	♦ Sum	mary	Externa	l Tasks		Inactive Milestone Saseline Summary
ED/20	018/01 with Progress Critical Split Split			art-only	Baseline		Milestone •		ual Summary		l Milestone	• ♦	Inactive Summary
Upda	te as of 22-Sep-19 Critical Progress Task Prog	ress	Fi	nish-only	Baseline Sp	olit	Summary Progress	Proje	ect Summary	- Inactive	Task		Deadline •
								Page	2				

Tas	sk Name	Duration		Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical		Time Risk		2000
			Duration							% Complete	Slack	Allowances (TRA)		2020 2021 2022 2023 H2
0	VCAB (Draft)	45 days	0 days	September 4, 2019	October 18, 2019	September 4, 2019	October 18, 2019	September 4, 2019	October 18, 2019		0 days	2 days	0 days Sun Septe	tember 22 B (Draft)
	Address Committee's comments	15 days	15 days	NA	NA	October 19, 2019	November 2, 2019	October 22, 2019	November 5, 2019	0%	0 days	2 days	3 days	Address Committee's comments
	VCAB (Final)	15 days	15 days	NA	NA	November 3, 2019	November 17, 2019	November 6, 2019	November 20, 201	9 0%	0 days	2 days	3 days	VÇAB (Final)
3	Durability Assessment Report (Draft)	60 days	0 days	May 30, 2019	July 28, 2019	May 30, 2019	July 28, 2019	May 30, 2019	July 28, 2019	0%	0 days	3 days	0 days Du	urability Assessment Report (Draft)
4	Address Comments	30 days	0 days	July 29, 2019	August 27, 2019	July 29, 2019	August 27, 2019	July 29, 2019	August 27, 2019	0%	0 days	2 days	0 days	Address Comments
5	Durability Assessment Report (Final)	30 days	4 days	August 28, 2019	NA	August 28, 2019	September 26, 201	9 August 28, 2019	November 20, 201	9 0%	52 days	2 days	55 days	Durability Assessment Report (Final)
6	Landscape Mitigation Plan	20 days	20 days	NA	NA	November 18, 2019	December 7, 2019	November 21, 2019	December 10, 2019	9 0%	3 days	3 days	3 days	Landscape Mitigation Plan
7	Site Investigation	209 days	116.69 days		NA	June 1, 2019	December 26, 2019		January 10, 2020	0%	15 days		15 days	Site Investigation
3	Ground Investigation Proposal (Draft)	56 days	0 days	June 1, 2019	July 26, 2019	June 1, 2019	July 26, 2019	June 1, 2019	July 26, 2019		0 days		T 1	round Investigation Proposal (Draft)
9	Submit & endorse by Gov. Depts and PM	6 days	0 days	July 27, 2019	August 1, 2019	July 27, 2019	August 1, 2019	July 27, 2019	August 1, 2019		0 days		— <i>'</i> —	ubmit & endorse by Gov. Depts and PM
)	Ground Investigation Proposal (Final)	25 days	25 days	August 2, 2019	NA	August 2, 2019	October 17, 2019	August 2, 2019	November 29, 201			1 days	43 days	Glound Investigation Proposal (Final)
1	Submit and endorse by Gov. Depts and PM	14 days	14 days	NA	NA	October 18, 2019		November 30, 2019			28 days		43 days	Submit and endorse by Gov. Depts and PM
2	Supervise the SI Carry Out on Site	90 days	46 days	August 10, 2019	NA	August 10, 2019	November 7, 2019		November 22, 201		0 days		15 days	Subervise the SI Carry Out on Site Submit SI Report(Draft) for Comment
3	Submit SI Report(Draft) for Comment	21 days	21 days	NA NA	NA NA	November 8, 2019		November 23, 2019			0 days		15 days	Submit and endorse SI Report(Final) by Project Manager
1	Submit and endorse SI Report(Final) by Project Manager	28 days	28 days	NA	NA	November 29, 2015	December 26, 2019	December 14, 2019	January 10, 2020	0%	15 days	1 days	15 days	Taubinit and endorse 31 Report main by Project Wanager
5	Lifts (LT1 to LT4), Staircase and Associated Works	278 days	269.21 days	September 12, 20	NA	September 12, 20	. June 15, 2020	September 12, 2019	June 19, 2020	0%	0 days		4 days	Lifts (LT1 to LT4), Staircase and Associated Works
5	Prepare AIP and ICE certification (Draft)	60 days	49 days	September 12, 201	.9 NA	September 12, 201	9 November 10, 2019	September 12, 2019	November 14, 201	9 18%	0 days	3 days	4 days	Prepare AIP and ICE certification (Draft)
7	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	November 11, 2019	January 9, 2020	December 5, 2019	February 2, 2020	0%	0 days	0.5 days	24 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept	10 4	10 d	N/A	N/A	January 40, 2025	Januar : 40, 2005	Fahmun - 3, 2022	Fahm 40 0000	00/	20 4-	0 4=	24 days	Prepare AIP and ICE certification (Final)
3	Prepare AIP and ICE certification (Final)	10 days	10 days	NA	NA NA	January 10, 2020		February 3, 2020	February 12, 2020		20 days		24 days	Prepare DDA and ICE certification (Draft)
9	Prepare DDA and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov	90 days	90 days	NA NA	NA NA	November 11, 2019		November 15, 2019	,				4 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
0	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	IVA	INA	February 9, 2020	April 8, 2020	February 13, 2020	April 12, 2020	0%	0 days	3 days	4 days	John Control of the state of th
1	Prepare DDA for and ICE certification (Final)	15 days	15 days	NA	NA	April 9, 2020	April 23, 2020	April 13, 2020	April 27, 2020	0%	0 days	1 days	4 days	Frepare DDA for and ICE certification (Final)
2	Submit & endorse by PM and Statutory Authorities/Gov.	53 days	53 days	NA	NA	April 24, 2020	June 15, 2020	April 28, 2020	June 19, 2020	0%	0 days	3 days	4 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept April 1985 April 1986 April	222 !	222 1		114	Na 1) l 40 00==	N	L 00 00==	00/	0.1		7.4	Noise blanks flash at the Linds at a second and the second at the second
3	Noise barrier fronting to 4B5 at Rd D3A & Bus Lay By	222 days	222 days	NA	NA	November 11, 2019	June 19, 2020	November 18, 2019	June 26, 2020	0%	0 days		7 days	Noise barrier fronting to 4B5 at Rd D3A & Bus Lay By
4	Prepare AIP and ICE certification (Draft)	50 days	50 days	NA	NA	November 11, 2019	December 30, 2019	November 18, 2019	January 6, 2020	0%	0 days	2 days	7 days	Prepare AIP and ICE certification (Draft)
15		60 days	60 days	NA	NA		February 28, 2020		March 10, 2020			0.5 days	11 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept	,	,			,	, ,	, ,	ŕ		•	•	,	
6	Prepare AIP and ICE certification (Final)	14 days	14 days	NA	NA	February 29, 2020	March 13, 2020	March 11, 2020	March 24, 2020	0%	4 days	0 days	11 days	Predare AIP and ICE certification (Final)
7	Prepare DDA and ICE certification (Draft)	78 days	78 days	NA	NA	December 31, 2019		January 7, 2020	March 24, 2020		0 days	4 days	7 days	Prepare DDA and ICE certification (Draft)
8	•	40 days	40 days	NA	NA	March 18, 2020	April 26, 2020	March 25, 2020	May 3, 2020	0%	0 days	2 days	7 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
.9	Dept Prepare DDA for and ICE certification (Final)	14 days	14 days	NA	NA	April 27, 2020	May 10, 2020	May 4, 2020	May 17, 2020	0%	0 days	1 days	7 days	Repare DDA for and ICE certification (Final)
50	Submit & endorse by PM and Statutory Authorities/Gov.	- '	40 days	NA	NA	May 11, 2020	June 19, 2020	May 18, 2020	June 26, 2020			1 days	7 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept	,.	,.			,,		,,			,-	,-		
1	Decking for Underpass (Rd L14)	390 days	390 days	NA	NA	May 11, 2020	June 4, 2021	May 23, 2020	June 16, 2021	0%	0 days		12 days	Decking for Underpass (Rd L14)
52	Prepare AIP and ICE certification (Draft)	60 days	60 days	NA	NA	May 11, 2020	July 9, 2020	May 23, 2020	July 21, 2020	0%	0 days	3 days	12 days	Prepare AIP and ICE certification (Draft)
i3	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	July 10, 2020	September 7, 2020	August 23, 2020	October 21, 2020	0%	0 days	0.5 days	44 days	Submit & endorse by PM and \$tatutory Authorities/Gov. Dept
4	Dept Prepare AIP and ICE certification (Final)	14 days	14 days	NA	NA	September 8, 2020	September 21, 202	October 22, 2020	November 4, 2020	0%	0 days	0 days	44 days	Prepare AIP and ICE certification (Final)
55	Prepare DDA and ICE certification (Draft)	90 days	90 days	NA	NA	September 22, 202	December 20, 2020	November 5, 2020	February 2, 2021		0 days		44 days	Prepare DDA and ICE certification (Draft)
6	Submit & endorse by PM and Statutory Authorities/Gov.		60 days	NA	NA		February 18, 2021		April 3, 2021		0 days		44 days	Submit & endorse by PM and Statutory Authorities/Gov. D
	Dept													
7	Prepare DDA for and ICE certification (Final)	14 days	14 days	NA	NA	February 19, 2021		April 4, 2021	April 17, 2021		0 days		44 days	Prepare DDA for and ICE certification (Final)
8	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	March 5, 2021	May 3, 2021	April 18, 2021	June 16, 2021	0%	32 days	0 days	44 days	Submit & endorse by PM and Statutory Authorities/G
9	AIP for E&M Works and Architectural Finishes of	60 days	60 days	NA	NA	July 10, 2020	September 7, 2020	July 22, 2020	September 19, 202	0 0%	0 days	3 day	12 days	AIP for E&M Works and Architectural Finishes of Underpass and ICE
	Underpass and ICE certification (Draft)		,-			. , -,	7, 2020	, ,====	1, 1, 1, 1, 2, 20, 20, 20, 20, 20, 20, 20, 20, 20,		,-	,		
60	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	September 8, 2020	November 6, 2020	September 20, 2020	November 18, 202	0 0%	0 days	3 days	12 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
51	Dept Prepare AIP for E&M Works and Architectural Finishes of	10 dave	10 days	NA	NA	November 7, 2020	November 16, 2020	November 19, 2020	November 28, 202	0%	0 days	0 days	12 days	Prepare AIP for E&M Works and Architectural Finishes of Under
,1	Underpass and ICE certification (Final)	20 days	10 0043			., 2020				0,0	Juays	Jauys	II days	
2	Prepare DDA for E&M Works and Architectural Finishes of Underpass certification (Draft)	90 days	90 days	NA	NA	November 17, 2020	February 14, 2021	November 29, 2020	February 26, 2021	0%	0 days	3 days	12 days	Prepare DDA for E&NI Works and Architectural Finishes of
53	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	February 15, 2021	April 15, 2021	February 27, 2021	April 27, 2021	0%	0 days	3 days	12 days	Submit & endorse by PM and Statutory Authorities/Go
	Dept		·			, .								
54	Prepare DDA for E&M Works and Architectural Finishes	10 days	10 days	NA	NA	April 16, 2021	April 25, 2021	April 28, 2021	May 7, 2021	0%	0 days	0 days	12 days	Prepare DDA for EBM Works and Architectural Finishe
	of Underpass and ICE certification (Final)													
55	Submit & endorse by PM and Statutory Authorities/Gov.	40 days	40 days	NA	NA	April 26, 2021	June 4, 2021	May 8, 2021	June 16, 2021	0%	12 days	2 days	12 days	Submit & endorse by PM and Statutory Authorities/
	Dept													
6	Road D3 Bridge & Approach Ramps	226 days	98.71 days	May 30, 2019	NA	May 30, 2019		May 30, 2019	January 10, 2020		0 days		0 days	Road D3 Bridge & Approach Ramps
7	D3 Bridge	226 days	106.5 days	May 30, 2019	NA	May 30, 2019		May 30, 2019	January 10, 2020		0 days		0 days	D3 Bridge
3	Prepare AIP and ICE certification (Draft)	66 days	0 days	May 30, 2019	August 3, 2019	May 30, 2019	August 3, 2019	May 30, 2019	August 3, 2019		0 days			Prepare AIP and ICE certification (Draft)
9	Submit & endorse by PM and Statutory Authorities/Gov. Dept	15 days	0 days	August 5, 2019	August 19, 2019	August 5, 2019	August 19, 2019	August 5, 2019	August 19, 2019	100%	0 days	1 days	0 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
0	Prepare AIP and ICE certification (Final)	21 days	21 days	August 20, 2019	NA	August 20, 2019	October 13, 2019	August 20, 2019	October 16, 2019	0%	3 days	0 days	3 days	Prepare AIP and ICE certification (Final)
1	Prepare DDA and ICE certification (Draft)	90 days	24 days	July 19, 2019	NA	July 19, 2019	October 16, 2019	-	October 16, 2019		0 days		0 days	Prepare DDA and ICE certification (Diaft)
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-			
	d Programme- Critical Task			anual Task	Duration-o	only	Baseline Milestone	Sum	mary	Exte	ernal Tasks		Inactive Milestone	Baseline Summary Land
	8/01 with Progress as of 22-Sep-19 Critical Split Spli		Sta	_	Baseline		Milestone		ual Summary	Exte	ernal Milesto	ne 💠	Inactive Summary	
ndate	as OI 22-Sep-19 Critical Progress Task Prog			nish-only	Baseline Si		Summary Progress		ect Summary		ctive Task		Deadline +	

Task I	Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Fre	ee Ti	ime Risk T	otal	
			Duration							% Sla	ack Al	Allowances S TRA)	lack 2019 H1	2020 2021 2022 2023 H2 H1 H2 H2
72		40 days	40 days	NA	NA	October 17, 2019	November 25, 2019	October 17, 2019	November 25, 2019				days	Sun September 22 blmit & eridorse by PM and Statutory Authorities/Gov. Dept
73	Authorities/Gov. Dept Prepare DDA for and ICE certification (Final)	15 days	15 days	NA	NA	November 26, 2019	December 10, 2010	November 26, 2019	December 10 2019	0% 0.4	lays 1	days 0	days	Prepare DDA for and ICE certification (Final)
74	· · ·	31 days	31 days	NA	NA NA	· ·	· · · · · · · · · · · · · · · · · · ·	December 11, 2019	· · · · · · · · · · · · · · · · · · ·		-		days	Submit & endorse by PM and Statutory Authorities/Sov. Dept
	Authorities/Gov. Dept	,-	,-			11, 2013			,,,			.,,	,-	
75	· · · · · · · · · · · · · · · · · · ·	226 days	-	May 30, 2019	NA	May 30, 2019	January 10, 2020	May 30, 2019	January 10, 2020		lays		days	D3 North Approach Ramp
76		56 days	0 days	May 30, 2019	July 24, 2019	May 30, 2019	July 24, 2019	May 30, 2019	· · ·				days	Prepare AIP and ICE certification (Draft)
77	Submit & endorse by PM and Statutory Authorities/Gov. Dept	12 days	0 days	July 25, 2019	August 5, 2019	July 25, 2019	August 5, 2019	July 25, 2019	August 5, 2019	100% 0 d	lays 1	days 0	days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
78	· · · · · · · · · · · · · · · · · · ·	29 days	15 days	August 6, 2019	NA	August 6, 2019	October 7, 2019	August 6, 2019	October 16, 2019	48% 9 d	lays 0	days 9	days	Prepare AIP and ICE certification (Final)
79	Prepare DDA and ICE certification (Draft)	90 days	24 days	July 19, 2019	NA	July 19, 2019	October 16, 2019	July 19, 2019	October 16, 2019	73% 0 d	lays 5	days 0	days	Prepare DDA and ICE certification (Draft)
80	Submit & endorse by PM and Statutory	40 days	40 days	NA	NA	October 17, 2019	November 25, 2019	October 17, 2019	November 25, 2019	0% 0 d	lays 3	days 0	days	Subm <mark>it & endorse by PM and Statu</mark> tory Authorities/Gov. Dept
0.1	Authorities/Gov. Dept	1 F along	1 F. da.us	NI A	NA	Navambar 20 2010	Danambar 10, 2010	Neverber 20 2010	Dagambar 10, 2010	00/ 0.4	Ja., a 1	dava 0	dave	I Prepare DDA for and ICE certification (Final)
81 82		15 days 31 days	15 days 31 days	NA NA	NA NA			November 26, 2019 December 11, 2019			-		days days	Submit & endorse by PM and Statutory Authorities/Sov. Dept
02	Authorities/Gov. Dept	31 days	31 days	IVA	INA	December 11, 2013	January 10, 2020	December 11, 2019	January 10, 2020	0%	iays I	uays 0	uays	
83	D3 South Approach Ramp	226 days	86.62 days	May 30, 2019	NA	May 30, 2019	January 10, 2020	May 30, 2019	January 10, 2020	0% 0 d	lays	0	days	D3 South Approach Ramp
84	Prepare AIP and ICE certification (Draft)	50 days	0 days	May 30, 2019	July 18, 2019	May 30, 2019	July 18, 2019	May 30, 2019	July 18, 2019	100% 0 d	lays 3	days 0	days	Prepare AIP and ICE certification (Draft)
85		46 days	0 days	July 19, 2019	September 2, 2019	July 19, 2019	September 2, 2019	July 19, 2019	September 2, 2019	100% 0 d	lays 1	days 0	days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
86	Authorities/Gov. Dept Prepare AIP and ICE certification (Final)	15 days	0 days	August 18, 2019	September 1, 2019	August 18. 2019	September 1, 2019	August 18. 2019	September 1, 2019	100% 0 d	lays 0	days 0	days	Prepare AIP and ICE certification (Final)
87		90 days	24 days	July 19, 2019	NA	July 19, 2019	October 16, 2019	-	October 16, 2019		-		days	Prepare DDA and ICE certification (Duaft)
88	· · · · · · · · · · · · · · · · · · ·	40 days	40 days	NA	NA		November 25, 2019		November 25, 2019		lays 3		days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Authorities/Gov. Dept	45.2	45.1			Name 1 62 52 1	D	Name of the second	December 12 22	00/	Laura .	devis	deve	Repared DDA for and ICE cartification (Eigh)
.89		15 days	15 days	NA NA	NA			November 26, 2019			-		days	Prepare DDA for and ICE certification (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept
90	Submit & endorse by PM and Statutory Authorities/Gov. Dept	31 days	31 days	NA	NA	December 11, 2019	January 10, 2020	December 11, 2019	January 10, 2020	υ% 0 d	lays 1	uays 0	days	- Submit Olendorse by Pivi and Statutory Authorities/Bov. Dept
91		412 days	213.27 days	May 30, 2019	NA	May 30, 2019	July 14, 2020	May 30, 2019	December 1, 2020	0% 140	0 days	1	40 days	Road D3 Underpass and Depressed Road
92	Underpass	412 days	296 days	May 30, 2019	NA	May 30, 2019	July 14, 2020	May 30, 2019	December 1, 2020	0% 100	0 days	1	40 days	Underpass Underpass
93	Prepare AIP and ICE certification (Draft)	50 days	0 days	May 30, 2019	July 18, 2019	May 30, 2019	July 18, 2019	May 30, 2019	July 18, 2019	100% 0 d	lays 3	days 0	days	Repare AIP and ICE certification (Draft)
94	Submit & endorse by PM and Statutory	40 days	0 days	July 19, 2019	August 27, 2019	July 19, 2019	August 27, 2019	July 19, 2019	August 27, 2019	100% 0 d	lays 1	days 0	days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
95	Authorities/Gov. Dept Prepare AIP and ICE certification (Final)	38 days	12 days	August 28, 2019	NA	August 28, 2019	October 4, 2019	August 28, 2019	October 4, 2019	68% 0 d	lays 2	days 0	days	Prepare AIP and ICE certification (Final)
96		64 days	64 days	NA	NA	October 5, 2019	December 7, 2019	- ·	December 7, 2019		lays 3		days	Prepare DDA and ICE certification (Draft)
97		90 days	90 days	NA	NA	December 8, 2019		April 26, 2020	· ·		-		40 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
J.	Authorities/Gov. Dept	,	,			, , , , ,	, , , ,	, , ,	, , .		.,	,	,	
98	•	40 days	40 days	NA	NA	March 7, 2020	April 15, 2020	July 25, 2020	September 2, 2020				40 days	Prepare DDA for and ICE dertification (Final)
99	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	90 days	NA	NA	April 16, 2020	July 14, 2020	September 3, 2020	December 1, 2020	0% 100	0 days 0	days 1	40 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
00	Depressed Road (North and South)	162 days	33.85 days	May 30, 2019	NA	May 30, 2019	November 7, 2019	May 30, 2019	April 15, 2020	0% 46	days	1	60 days	Depressed Road (North and South)
01	Prepare AIP and ICE certification (Draft)	66 days	0 days	May 30, 2019	August 3, 2019	May 30, 2019	August 3, 2019	May 30, 2019	August 3, 2019	100% 0 d	lays 1	days 0	days	Prepare AIP and ICE certification (Draft)
02	Submit & endorse by PM and Statutory	30 days	0 days	August 6, 2019	September 4, 2019	August 6, 2019	September 4, 2019	August 6, 2019	September 4, 2019	100% 0 d	lays 2	days 0	days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Authorities/Gov. Dept	10 de	40 -1	N. A	N.A.	Ctb 22, 2046	0.0-1-1	A	A	00/ 40	C -l 0		26 4	_ T. Prapare AIP and ICE certification (Final)
03 04		10 days 71 days	10 days 0 days	NA May 30, 2019	NA August 8, 2019	May 30, 2019	9 October 2, 2019 August 8, 2019	May 30, 2019	7 (p 15) 2020		6 days 0		96 days days	Prepare DDA and ICE certification (Draft)
05	· · · · · · · · · · · · · · · · · · ·	40 days	0 days	August 9, 2019	September 17, 201		September 17, 201		September 17, 2019		lays 1		days	Submit & endorse by PM and Statutory Authorities/Sov. Dept
	Authorities/Gov. Dept	.0 00,5	o days	7 tagast 3, 2013	September 17, 201	7 tagast 3) 2023	5epte5er 17, 201	3 / tagast 3 / 2013	September 17, 2013	10070	,5	aays	aays	
06		11 days	6 days	September 18, 201	.9 NA	September 18, 2019	9 September 28, 201	9 September 18, 2019	March 6, 2020	45% 0 d	lays 1	days 1	60 days	Prepare DDA for and ICE certification (Final)
07	Submit & endorse by PM and Statutory Authorities/Gov. Dept	40 days	40 days	NA	NA	September 29, 2019	9 November 7, 2019	March 7, 2020	April 15, 2020	0% 160	0 days 1	days 1	60 days	Tubmit & enderse by PM and Statutory Authorities/Gov. Dept
08		332 days	316.32 days	August 13, 2019	NA	August 13, 2019	July 9, 2020	August 13, 2019	November 21, 2021	0% 500	0 days	5	00 days	Remaining Road Works
09	• • • • • • • • • • • • • • • • • • •	60 days	19 days	August 13, 2019	NA	August 13, 2019	October 11, 2019				lays 1		18 days	Prepare AIP for At-grade Road D3 and ICE certification (Draft)
	(Draft)													
10	Submit & endorse by PM and Statutory Authorities/Gov. Dept	28 days	28 days	NA	NA	October 12, 2019	November 8, 2019	April 30, 2021	May 27, 2021	0% 0 d	lays 0.	.5 days 5	66 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
11	Prepare AIP for At-grade Road D3 and ICE certification	14 days	14 days	NA	NA	November 9, 2019	November 22, 2019	9 May 28, 2021	June 10, 2021	0% 48	days 0	days 5	66 days	Prepare AIP for At-grade Road DB and ICE certification (Final)
	(Final)	,	,				·	, .					,	
12	Prepare DDA for At-grade Road D3 and ICE certification (Draft)	90 days	90 days	NA	NA	October 12, 2019	January 9, 2020	March 13, 2021	June 10, 2021	0% 0 d	lays 1	day 5	18 days	Prepare DDA for At-grade Road D3 and ICE certification (Draft)
13	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	January 10, 2020	March 9, 2020	June 11, 2021	August 9, 2021	0% 0 d	lays 0.	.5 days 5	18 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept													
1	Prepare DDA for At-grade Road D3 and ICE certification (Final)	14 days	14 days	NA	NA	March 10, 2020	March 23, 2020	August 10, 2021	August 23, 2021	0% 0 d	lays 0	days 5	18 days	Prepare DDA for At-grade Road D3 and ICE certification (Final)
14	Submit & endorse by PM and Statutory Authorities/Gov.	90 days	90 days	NA	NA	March 24, 2020	June 21, 2020	August 24, 2021	November 21, 2021	0% 518	8 days 0	days 5	18 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
15	Dept	60 days	60 days	NA	NA	October 12, 2019	December 10, 2019	May 17, 2020	July 15, 2020	0% 0 d	lays 1	day 2	18 days	Prepare AIP for Road L12d and ICE certification (Draft)
15	Prepare AIP for Road L12d and ICE certification (Draft)		28 days	NA	NA	December 11, 2019	January 7, 2020	April 24, 2021	May 21, 2021	0% 0 d	lays 0.	.5 days 5	00 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
15	·	28 days						, .				,	,	
15 16 17	Prepare AIP for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept					January 8, 2020	January 17, 2020	May 22, 2021	May 31, 2021	0% 0 d	lays 0	days 5	00 days	Prepare AIP for Road L12d and ICE certification (Final)
15 16 17	Prepare AIP for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	28 days 10 days	10 days	NA	NA	, ,							20.1	Prepare DDA for Road L12d and ICE certification (Draft)
15 16 17 18	Prepare AIP for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept Prepare AIP for Road L12d and ICE certification (Final)	10 days		NA NA	NA NA		April 16, 2020	June 1, 2021	August 29, 2021	0% 0 d	lays 1	day 5	00 days	
114	Prepare AIP for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	10 days				January 18, 2020	April 16, 2020	June 1, 2021	August 29, 2021		lays 1	,	DU days	
15 16 17 18	Prepare AIP for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept Prepare AIP for Road L12d and ICE certification (Final) Prepare DDA for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov.	10 days					April 16, 2020 June 15, 2020	June 1, 2021 August 30, 2021	August 29, 2021 October 28, 2021		lays 1	,	00 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
15 16 17 18 19 20	Prepare AIP for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept Prepare AIP for Road L12d and ICE certification (Final) Prepare DDA for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	10 days 90 days 60 days	90 days	NA NA	NA NA	January 18, 2020 April 17, 2020	June 15, 2020	August 30, 2021	October 28, 2021	0% 0 d	lays 0.	.5 days 5	00 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
15 16 17 18 19	Prepare AIP for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept Prepare AIP for Road L12d and ICE certification (Final) Prepare DDA for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov.	10 days 90 days 60 days	90 days	NA	NA	January 18, 2020				0% 0 d	lays 0.	.5 days 5		
5 6 7 8 9 9	Prepare AIP for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept Prepare AIP for Road L12d and ICE certification (Final) Prepare DDA for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	10 days 90 days 60 days	90 days 60 days 10 days	NA NA	NA NA	January 18, 2020 April 17, 2020 June 16, 2020	June 15, 2020	August 30, 2021 October 29, 2021	October 28, 2021 November 7, 2021	0% 0 d	days 0.	.5 days 5	00 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
5	Prepare AIP for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept Prepare AIP for Road L12d and ICE certification (Final) Prepare DDA for Road L12d and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept Prepare DDA for Road L12d and ICE certification (Final)	10 days 90 days 60 days 10 days	90 days 60 days 10 days	NA NA NA anual Task	NA NA NA	January 18, 2020 April 17, 2020 June 16, 2020	June 15, 2020 June 25, 2020	August 30, 2021 October 29, 2021	October 28, 2021 November 7, 2021	0% 0 d	days 0.	days 5	00 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept Prepare DDA for Road L12d and ICE certification (Final) Baseline Summary Baseline Summary

T1 **			D ' '	A -41 Ct	A -4 1 =1 . 1 1	Diag Co.	DI F' ' I	1 -4 - C1 - 1	Laka Francis	Dlamatical in		a Diale Toron	
Task Nam	ne D		Remaining Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Free Sla		ne Risk Total owances Slack 2019	2020 2021 2022 2023
										Complete	(TRA	A) H	H1
	Submit & endorse by PM and Statutory Authorities/Gov. Dept	.4 days 1	14 days	NA	NA	June 26, 2020	July 9, 2020	November 8, 2021	November 21, 2021	0% 500	0 days 0 da	ays 500 days	Sun September 22 Submit & endorse by PM and Statutory Authorities/Gov. Dept
	AIP for Roadworks - Roadworks other than at-grade Road 6	i0 days	60 days	NA	NA	December 11, 2019	February 8, 2020	July 16, 2020	September 13, 2020	0% 0 d	ays 1 da	ay 218 days	AIP for Roadworks - Roadworks other than at-grade Road D3 and Road L12d (Draft)
	D3 and Road L12d (Draft) AIP for Roadworks - Roadworks other than at-grade Road 3	8 days	38 days	NA	NA	February 9, 2020	March 17, 2020	August 24, 2021	September 30, 2022	. 0% 52	days 0.5	days 562 days	AIP for Roadworks - Roadworks other than at-grade Road D3 and Road L12d (Final
	D3 and Road L12d (Final) DDA for Roadworks - Roadworks other than at-grade 9	0 days	90 days	NA	NA	February 9, 2020	May 8, 2020	July 3, 2021	September 30, 2021	. 0% 0 d	ays 1 da	ay 510 days	DDA for Roadworks - Roadworks other than at-grade Road D3 and Road L12d (I
	Road D3 and Road L12d (Draft)	·		NIA	NIA								DDA for Postsworks - Postsworks where they at grade Post D3 and Post 11
	DDA for Roadworks - Roadworks other than at-grade Road D3 and Road L12d (Final)	2 days	52 days	NA	NA	May 9, 2020	June 29, 2020	October 1, 2021	November 21, 2021	0% 510	0.5 days	days 510 days	DDA-for-Roadworks - Roadworks other than at-grade Road D3 and Road L12
			•	August 13, 2019	NA	August 13, 2019	April 21, 2020	August 13, 2019		0% 0 d		0 days	Seawater & DCS Intake Bbx Culverts Prepare AIP and ICE certification (Draft)
	Prepare AIP and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. 6			August 13, 2019 NA	NA NA	August 13, 2019 October 12, 2019	October 11, 2019 December 10, 2019	August 13, 2019 October 12, 2019	October 11, 2019 December 10, 2019		ays 3 da ays 3 da		Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept	,	45 4	A1A	N. A.								Prepare AIP and ICE certification (Final)
			•	NA August 13, 2019	NA NA		December 25, 2019	December 11, 2019 August 13, 2019	December 25, 2019		ays 1 da ays 1 da		Prepare DDA and ICE certification (Draft)
	Submit & endorse by PM and Statutory Authorities/Gov. 6			NA	NA			December 26, 2019			ays 3 da		Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept Prepare DDA for and ICE certification (Final) 1	4 days 1	14 days	NA	NA	March 1, 2020	March 14, 2020	March 1, 2020	March 14, 2020	0% 0 d	ays 0 da	ays 0 days	Regare DDA for and ICE certification (Final)
			,.	NA	NA	March 15, 2020	April 21, 2020	March 15, 2020			ays 2 da		Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept sing Main 2	15 days 2	215 days	NA	NA	December 8, 2019	July 9, 2020	December 8, 2019	July 9, 2020	0% 0 d	avs	0 days	Rising Main
	•		•	NA	NA	December 8, 2019		December 8, 2019	• •		ays 3 da	,	Prepare AIP and ICE certification (Draft)
	Submit & endorse by PM and Statutory Authorities/Gov. 6		•	NA	NA	February 6, 2020	April 5, 2020	February 21, 2020	· · ·		ays 0.5		Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept Prepare AIP and ICE certification (Final) 2	0 days 2	20 days	NA	NA	April 6, 2020	April 25, 2020	April 21, 2020	May 10, 2020	0% 15	days 0 da	ays 15 days	Prepare AIP and ICE certification (Final)
			/ -	NA NA	NA NA	December 8, 2019		December 8, 2019	March 6, 2020		ays 4 da		Prepare DDA and ICE certification (Draft)
	Submit & endorse by PM and Statutory Authorities/Gov. 5			NA	NA	March 7, 2020	April 30, 2020	March 7, 2020			ays 3 da		Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept Prepare DDA and ICE certification (Final) 1	.0 days 1	10 days	NA	NA	May 1, 2020	May 10, 2020	May 1, 2020	May 10, 2020	0% 0 d	ays 0 da	ays 0 days	Repare DDA and ICE certification (Final)
	Submit & endorse by PM and Statutory Authorities/Gov. 6		60 days	NA	NA	May 11, 2020	July 9, 2020	May 11, 2020	July 9, 2020		ays 3 da		Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept prmwater and Sewage Drainage Works 4	42 days 4	442 days	NA	NA	December 8 2019	February 21, 2021	March 18, 2020	June 2, 2021	0% 84	days	101 days	Stormwater and Sewage Drainage Works
	* *		•	NA	NA	December 8, 2019		March 18, 2020	May 16, 2020		ays 1 da		Prepare AIP for Bidge D3 and ICE certification (Draft)
	Submit & endorse by PM and Statutory Authorities/Gov. 6	O days 6	60 days	NA	NA	February 6, 2020	April 5, 2020	August 17, 2020	October 15, 2020	0% 0.4	ays 0.5 (days 193 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept	,										, ,	
	Prepare AIP for Bidge D3 and ICE certification (Final)	.0 days 1	10 days	NA	NA	April 6, 2020	April 15, 2020	October 16, 2020	October 25, 2020	0% 0 d	ays 0 da	ays 193 days	Prepare AIP for Bidge D3 and ICE certification (Final)
	Prepare DDA for Bidge D3 and ICE certification (Draft) 9	0 days	90 days	NA	NA	April 16, 2020	July 14, 2020	October 26, 2020	January 23, 2021	0% 0 d	ays 1 da	ay 193 days	Prepare DDA for Bidge D3 and ICE certification (Draft)
	Submit & endorse by PM and Statutory Authorities/Gov. 6 Dept	0 days	60 days	NA	NA	July 15, 2020	September 12, 2020	0 January 24, 2021	March 24, 2021	0% 0 d	ays 0.5	days 193 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	•	.0 days	10 days	NA	NA	September 13, 202	0 September 22, 2020	0 March 25, 2021	April 3, 2021	0% 0 d	ays 0 da	ays 193 days	Prepare DDA for Bidge D3 and ICE certification (Final)
	Submit & endorse by PM and Statutory Authorities/Gov. 6	i0 days 6	60 days	NA	NA	September 23, 202	0 November 21, 2020) April 4, 2021	June 2, 2021	0% 176	6 days 0 da	ays 193 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept Prepare AIP for Underpass, Depressed Road and ICE 6	i0 days 6	60 days	NA	NA	February 6, 2020	April 5, 2020	May 17, 2020	July 15, 2020	0% 0 d	ays 1 da	ay 101 days	Prepare AIP for Underpass, Depressed Road and ICE certification (Draft)
	certification (Draft)		,		NA				, .				Submit & endorse by PM and \$tatutory Authorities/Gov. Dept
	Submit & endorse by PM and Statutory Authorities/Gov. 6 Dept		,	NA		April 6, 2020	June 4, 2020	August 17, 2020	October 15, 2020		ays 0.5	, ,	
	Prepare AIP for Underpass, Depressed Road and ICE certification (Final)	.0 days	10 days	NA	NA	June 5, 2020	June 14, 2020	October 16, 2020	October 25, 2020	0% 0 d	ays 0 da	ays 133 days	Prepare AIP for Underpass, Depressed Road and ICE certification (Final)
	Prepare DDA for Underpass, Depressed Road and ICE 9 certification (Draft)	0 days	90 days	NA	NA	June 15, 2020	September 12, 2020	0 October 26, 2020	January 23, 2021	0% 0 d	ays 1 da	ay 133 days	Prepare DDA for Underpass, Depressed Road and ICE certification (Draft
	Submit & endorse by PM and Statutory Authorities/Gov. 6	0 days	60 days	NA	NA	September 13, 202	0 November 11, 2020	January 24, 2021	March 24, 2021	0% 0 d	ays 0.5	days 133 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept Prepare DDA for Underpass, Depressed Road and ICE 1	.0 days 1	10 days	NA	NA	November 12, 2020	November 21, 2020) March 25, 2021	April 3, 2021	0% 0 d	ays 0 da	ays 133 days	Prepare DDA for Underpass Depressed Road and ICE certification (F
	certification (Final) Submit & endorse by PM and Statutory Authorities/Gov. 6	in days f	60 days	NA	NA	November 22, 2020) January 20, 2021	April 4 2021	June 2, 2021	0% 116	6 days 0 da	ays 133 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Dept		,			·	, .	, ,					
	· · ·		, .	NA	NA	April 6, 2020	June 4, 2020	July 16, 2020	September 13, 2020		ays 1 da		AIP for Water Works - Road L12d (Dyaft) 74. AIP for Water Works - Road L12d (Final)
			· · · · , ·	NA NA	NA NA	June 5, 2020 June 5, 2020	July 12, 2020 September 2, 2020	March 5, 2021	· '		days 0.5 days 1 da	, ,	DDA for Water Works - Road LL2d (Draft)
			•	NA	NA	September 3, 2020		April 12, 2021	<u>'</u>		1 days 1 da		DDA for Water Works Road L12d (Final)
	AIP for Water Works - Waterfront Promenade and at 6			NA	NA	June 5, 2020	August 3, 2020		November 12, 2020		ays 1 da		AIP for Water Works - Waterfront Promenade and at grade Open Space (D
	grade Open Space (Draft) AIP for Water Works - Waterfront Promenade and at 3	8 days 3	38 days	NA	NA	August 4, 2020	September 10, 2020	0 March 5, 2021	April 11, 2021	0% 52	days 0.5	days 213 days	AIP for Water Works - Waterfront Promenade and at grade Open Space
	grade Open Space (Final) DDA for Water Works - Waterfront Promenade and at 9		,	NA	NA	August 4, 2020	November 1, 2020						DDA for Water Works - Waterfront Promenade and at grade Open Sp
	grade Open Space (Draft)		,				·	, ,			ays 1 da		
	DDA for Water Works - Waterfront Promenade and at grade Open Space (Final)	2 days	52 days	NA	NA	November 2, 2020	December 23, 2020	April 12, 2021	June 2, 2021	0% 144	4 days 1 da	ay 161 days	DDA for Water Works - Waterfront Promenade and at grade Oper
	- 1 1 1 1	i0 days	60 days	NA	NA	August 4, 2020	October 2, 2020	November 13, 2020	January 11, 2021	0% 0 d	ays 1 da	ay 101 days	AIP for Water Works - Remaining water works (Draft)
	AIP for Water Works - Remaining water works (Final) 3	8 days 3	38 days	NA	NA	October 3, 2020	November 9, 2020	March 5, 2021	April 11, 2021	0% 52	days 0.5	days 153 days	AIP for Water Works - Remaining water works (Final)
	·												
sed Progra	amme- Critical Task		Ma	nual Task	Duration-	only	Baseline Milestone	♦ Sum	mary	External	Tasks	Inactive N	Milestone ♦ Baseline Summary
)18/01 wi	ith Progress Critical Split Split		Sta	rt-only	Baseline		Milestone	♦ Man	ual Summary	External	Milestone \diamondsuit	> Inactive S	Summary
f o	2-Sep-19 Critical Progress Task Progress		Eini	ish-only	Baseline S	Turlie .	Summary Progress		ect Summary	Inactive		Deadline	•

Task I	Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Progress Update as of Late Finish	Physical Fre	e Ti	ime Risk	Total													
Idaki	Name	Duration	Duration	Actual Start	Actual I IIIISII	rian Start	Fidit i iiisii	Late Start	Late I IIIISII	% Sla		llowances			20	20		20	21		202	2		2023		20
	DDA for Water Works - Remaining water works (Draft)	90 days	90 days	NA	NA	October 3, 2020	December 31, 2020	1 January 12, 2021	April 11, 2021	Complete 0% 0 da		RA) day 1	H1 101 days	H2 Sun Septem	her 22	H1	H	2	H1 DAlfor	H2 Water W	hirlds - IR	H1 emainir	H2	H: r works (I		H2
	DDA for Water Works - Remaining water works (Draft)	90 days	90 days	IVA	NA	October 5, 2020	December 31, 2020	January 12, 2021	April 11, 2021	0% 0 u	ays I	uay	101 days	Juli Septem	Del 22											
	DDA for Water Works - Remaining water works (Final)	52 days	52 days	NA	NA	January 1, 2021	February 21, 2021	April 12, 2021	June 2, 2021	0% 84 (days 1	day 1	101 days						DDA	dr Wate	Works	- Rema	ining w	ater work	s (Final)	
)	Water Works	442 days	442 days	NA	NA	October 17, 2019	December 31, 2020	May 1, 2020	July 16, 2021	0% 197	days	1	197 days				Ш		Vater V	rks						
	Prepare AIP for Bridge D3 and ICE certification (Draft)	60 days	60 days	NA	NA	October 17, 2019	December 15, 2019	May 1, 2020	June 29, 2020	0% 0 da	ays 1	day 1	197 days		Pre	epare A	IP for E	ridge D	3 and I	Certifi	ation (Draft)				
	Submit & endorse by PM and Statutory Authorities/Gov.	29 days	28 days	NA	NA	December 16, 2019	January 12, 2020	October 28, 2020	November 24, 2020	0.0% 0.4	ays 0.	.5 days 3	317 days			ubmit	endo	rse by P	M and	Statutory	Autho	rities/G	ov Deni			
!	Dept	20 uays	20 udys	NA .	NA .	December 16, 2019	January 12, 2020	October 28, 2020	November 24, 2020	J 0% U u	ays U.	.5 uays	517 days									1	J. J. P.	-		
3	Prepare AIP for Bridge D3 and ICE certification (Final)	14 days	14 days	NA	NA	January 13, 2020	January 26, 2020	November 25, 2020	December 8, 2020	0% 0 da	ays 0	days	317 days			Prepar	AIP fo	r Bridge	D3 and	I ICE cert	ificatio	n (Final))			
	Prepare DDA for Bridge D3 and ICE certification (Draft)	90 days	90 days	NA	NA	January 27, 2020	April 25, 2020	December 9, 2020	March 8, 2021	0% 0 da	ays 1	day 3	317 days			P	epare	DA for	Bridge	D3 and	ICE cert	ification	ı (Draft))		
_		co. I	co. I							00/							C. Lan	0			Cana			Cau Day	.	
5	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	April 26, 2020	June 24, 2020	March 9, 2021	May 7, 2021	0% 0 da	ays 0.	.5 days	317 days				Subn	iit & en	iorse b	/ Pivi and	Statut	ory Auti	norities,	Gov. Dep	"	
5	Prepare DDA for Dridge D3 and ICE certification (Final)	10 days	10 days	NA	NA	June 25, 2020	July 4, 2020	May 8, 2021	May 17, 2021	0% 0 da	ays 0	days 3	317 days				Prep	are DDA	for Dr	dge DB a	ind ICE	certifica	ation (Fi	nal)		
7	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	July 5, 2020	September 2, 2020	May 18, 2021	July 16, 2021	0% 268	days 0	days 3	317 days				9	ubmit 8	ι endor	se by PN	and St	atutory	Authori	ties/Gov.	Dept	
	Dept											·														
3	Prepare AIP for Underpass, Depressed Road and ICE certification (Draft)	60 days	60 days	NA	NA	December 16, 2019	February 13, 2020	June 30, 2020	August 28, 2020	0% 0 da	ays 1	day 1	197 days			Prepa	e AIP 1	or Unae	rpass, I	epresse	a Koad	and ICE	certifica	ation (Dra	ift)	
)	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	February 14, 2020	April 13, 2020	September 30, 2020	November 28, 2020	0 0% 0 da	ays 0.	5 days 2	229 days			Su	bmit &	endors	by PM	and Sta	tutory	uthorit	ies/Gov	. Dept		
)	Dept Prepare AIP for Underpass, Depressed Road and ICE	10 days	10 days	NA	NA	April 14, 2020	April 23, 2020	November 29, 2020	December 8, 2020	0% 0 da	ays 0		229 days			₩p	epare A	IP for U	Jnderp	ss, Depr	essed R	oad and	ICE cer	tification	(Final)	
	certification (Final)										-,-					$\ \ $										
L	Prepare DDA for Underpass, Depressed Road and ICE certification (Draft)	90 days	90 days	NA	NA	April 24, 2020	July 22, 2020	December 9, 2020	March 8, 2021	0% 0 da	ays 1	day 2	229 days				Pre	oare DD	A for U	ngerpass	Depre	ssed Ro	ad and	ICE certifi	cation (D	raft)
2	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	July 23, 2020	September 20, 2020	0 March 9, 2021	May 7, 2021	0% 0 da	ays 0.	.5 days 2	229 days					Submit	& endo	rse by Pl	V and S	tatutory	y Autho	rities/Gov	/. Dept	
3	Dept Prepare DDA for Underpass, Depressed Road and ICE	10 days	10 days	NA	NA	Sentember 21 202	0 September 30, 2020	0 May 8 2021	May 17, 2021	0% 0 da	avs n	days 2	229 days					Prepare	DDA	or Under	pass D	epresse	d Road	and ICE co	ertificatio	on (Final)
<u>'</u>	certification (Final)	10 days	10 days	IVA	NA .	September 21, 202	o September 30, 2020	0 IVIAY 6, 2021	Way 17, 2021	070 0 0	ays 0	uays 2	225 days				-									
1	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	October 1, 2020	November 29, 2020	May 18, 2021	July 16, 2021	0% 180	days 0	days 2	229 days					Suk	mit &	erdorse I	y PM a	nd Stati	utory A	uthorities	/Gov. De	ρt
5	AIP for Water Works - Road L12d (Draft)	60 days	60 days	NA	NA	February 14, 2020	April 13, 2020	August 29, 2020	October 27, 2020	0% 0 da	ays 1	day 1	197 days			Ai	for W	ater Wo	rks - Ro	ad L12d	(Draft)					
	AIP for Water Works - Road L12d (Final)	38 days	38 days	NA	NA	April 14, 2020	May 21, 2020	April 18, 2021	May 25, 2021	0% 52	days 0.	5 days	369 days							Road L1	1 1 1 1	ľ				
	DDA for Water Works - Road L12d (Draft)	90 days		NA	NA	April 14, 2020	July 12, 2020	February 25, 2021	May 25, 2021		ays 1		317 days				TILL			ks - Roa		1 1				
	DDA for Water Works - Road L12d (Final)	52 days	52 days	NA NA	NA NA	July 13, 2020	September 2, 2020		July 16, 2021		days 1		317 days			I 👢				W <mark>orks</mark> - F - Waterf		1 ' 1	·	arade O	non Snac	e (Draft)
	AIP for Water Works - Waterfront Promenade and at grade Open Space (Draft)	60 days	60 days	NA .	NA .	April 14, 2020	June 12, 2020	October 28, 2020	December 26, 2020	0 0%	ays 1	uay	197 days				M	· Water	110.1	, vateri		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		. grade O	penispac	z (Diait)
	AIP for Water Works - Waterfront Promenade and at	38 days	38 days	NA	NA	June 13, 2020	July 20, 2020	April 18, 2021	May 25, 2021	0% 52 (days 0.	.5 days	309 days				AIP	for Wat	er Wor	ks - Wate	rfront	Promen	ade and	at grade	Open Sp	ace (Final
	grade Open Space (Final) DDA for Water Works - Waterfront Promenade and at	90 days	90 days	NA	NA	June 13, 2020	September 10, 2020	0 February 25, 2021	May 25, 2021	0% 0 da	ays 1	day 2	257 days					DA for	Water	Works -	Waterfr	ont Pro	menade	and at g	rade Ope	n Space (I
_	grade Open Space (Draft)	F2 days	E2 days	NI A	NA	Contombou 11 202	0 Navambar 1, 2020	May 26, 2021	Il., 16, 2021	00/ 200) days 1	ala	257 days				$\parallel \parallel \downarrow$	DDA	far \\	ar Work	. Wat	rfront l	Draman	ado and a	t grade (Open Spac
2	DDA for Water Works - Waterfront Promenade and at grade Open Space (Final)	52 days	52 days	NA	NA .	September 11, 202	0 November 1, 2020	IVIAY 20, 2021	July 16, 2021	0% 208	3 days 1	uay	257 days				-							ade and a	glade	pen spac
3	AIP for Water Works - Remaining water works (Draft)	60 days	60 days	NA	NA	June 13, 2020	August 11, 2020	December 27, 2020	February 24, 2021	0% 0 da	ays 1	day 1	197 days				Al	P for W	ater Wo	rks - Rer	naining	water v	vorks (D	raft)		
1	AIP for Water Works - Remaining water works (Final)	38 days	38 days	NA	NA	August 12, 2020	September 18, 2020	0 April 18, 2021	May 25, 2021	0% 52 (days 0.	.5 days 2	249 days					AIP for	Water	Vorks - F	emaini	ng wate	r works	(Final)		
	DDA for Wester Wester Demoising water words (Droft)	00 dave	00 dava	NI A	NA	A	Navambar 0, 2020	Fahruari 25, 2021	May 25, 2024	00/ 0.4	1	da 1	107 days					DDA	for W	tar Worl	. Por	pining,	waterw	orks (Dra	ft)	
5	DDA for Water Works - Remaining water works (Draft)	90 days	90 days	NA	NA	August 12, 2020	November 9, 2020	February 25, 2021	May 25, 2021	0% 0 da	ays 1	day .	197 days						ioi wa	Lei VVOII	S - Kell	iaiiiiig v	water w	OIKS (DIA	,	
5	DDA for Water Works - Remaining water works (Final)	52 days	52 days	NA	NA	November 10, 2020	December 31, 2020	May 26, 2021	July 16, 2021	0% 148	days 1	day	197 days					-	DA fo	Water W	orks - F	emainii	ng wate	r works (l	inal)	
7	Pumping Stations, Box Culverts and Intake Structures	505 days	409.17 days	May 30, 2019	NA	May 30, 2019	October 15, 2020	May 30, 2019	February 10, 2022	0% 340) days		483 days					Pump	ing St	tions, Bo	x Culve	rts and	Intake S	tructures		
	Decree AID for Characteristic and ICC and Continue (Durft)	C4 days	0.4	M20, 2010	L.L. 20, 2010	M20, 2040	L.L. 20, 2040	M 20, 2040	Lub. 20, 2040	4000/ 0.4		-1	0.45	Pro.		, for 6		ond IC	E Fartifi	cation ([
	Prepare AIP for Structures and ICE certification (Draft)	61 days	0 days	May 30, 2019	July 29, 2019	May 30, 2019	July 29, 2019	May 30, 2019	July 29, 2019	100% 0 da	ays 1	day (0 days		Jane Par	101 3	ucture	anu ic	e ceruii	Cation (L	11411)					
9	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	5 days	July 30, 2019	NA	July 30, 2019	September 27, 2019	9 July 30, 2019	September 15, 202	1 92% 0 da	ays 0.	5 days	719 days		Submit	& end	rse by	PM and	Statut	ry Autho	rities/0	ov. Dep	ot			
)	Dept Prepare AIP for Structures and ICE certification (Final)	14 days	14 days	NA	NA	September 28, 201	9 October 11, 2019	September 16, 2021	September 29, 202	1 0% 18	days 0	days	719 days		Prepar	e AIP f	r Struc	tures ar	d ICE	ertificati	n (Fina)				
	Decree DDA for Characteristic and ICE and Stacking (Darfe)	02 4	27 4	Lub 20 2010		hala 20, 2010	O-t-h20 2040	hala 20, 2010	Manu 20, 2020	00/ 0.4		-l (21.1		Brons	DD	EAU C+		Id	l	dian (II)					
-	Prepare DDA for Structures and ICE certification (Draft)	92 days	37 days	July 30, 2019	NA	July 30, 2019	October 29, 2019	July 30, 2019	May 30, 2020	0% 0 da	ays 1	day	214 days		Prepa	re DD	ior Sti	uctures	and IQ	certifica	nion (i)	гатт)				
2	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	October 30, 2019	December 28, 2019	September 30, 2021	November 28, 2021	L 0% 0 da	ays 0.	5 days	701 days		Su Su	ıbmit (endor	se by Pi	/I and S	tatutory	Author	ties/Go	v. Dept			
3	Dept Prepare DDA for Structures and ICE certification (Final)	14 davs	14 days	NA	NA	December 29, 2019	January 11, 2020	November 29, 2021	December 12, 2021	. 0% 0 da	ays 0	davs	701 days		 P	repare	DDA fo	r Struct	ures an	d ICE cer	tificatio	n (Final)			
	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	January 12, 2020	March 11, 2020	December 13, 2021	February 10, 2022	0% 558	3 days 0	days	701 days			Sub	riit & e	idorse l	y PM	nd Statu	tory Au	thoritie	s/Gov. L	Pept		
	Prepare AIP for E&M and ICE certification (Draft)	60 days	5 days	July 30, 2019	NA	July 30, 2019	September 27, 2019	9 July 30, 2019	May 30, 2020	0% 0 da	ays 1	day 2	246 days	<u> </u>						ntion (Dr						
	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	September 28, 201	9 November 26, 2019	April 27, 2021	June 25, 2021	0% 0 da	ays 0.	.5 days	577 days		Sub	mit &	ndorse	by PM	and St	tutory A	uthoriti	es/Gov.	Dept			
	Prepare AIP for E&M and ICE certification (Final)	10 days	10 days	NA	NA	November 27, 2019	December 6, 2019	June 26, 2021	July 5, 2021	0% 0 da	ays 0	days 5	577 days		Pre	pare A	P for E	3tM and	ICE cer	tification	(Final)					
	Prepare DDA for E&M and ICE certification (Draft)	90 days		NA	NA	December 7, 2019		July 6, 2021	October 3, 2021		ays 1		577 days			Prep	re DD	for E	ιM and	ICE certi	fication	(Draft)				
	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	March 6, 2020	May 4, 2020	October 4, 2021	December 2, 2021	0% 0 d	ays 0.	5 davs	577 days				ubmit	k endor	se by I	VI and \$t	atutory	Author	ities/Go	v. Dept		
9	Dept											,												- 1		
)	Prepare DDA for E&M and ICE certification (Final)	10 days	10 days	NA	NA	May 5, 2020	May 14, 2020	December 3, 2021	December 12, 2021	0% 0 da	ays 0	days	577 days				repare	DDA fo	r E&N	and ICE	tertifica	tion (Fi	nal)			
								1							11111111111	1 11 11	11111									
Pevised D	rogramme- Critical Task	_	M:	anual Task	Duration-	-only	Baseline Milestone	♦ Sum	marv	External	Tasks		Inactive Miles	tone 🔷		Race	ine Summ	ary 🛌		_						
cviscu M			Sta		Baseline		Milestone		ual Summary	External		•	Inactive Sumn			Jast	c Juliill	,		-						
	of 22-Sep-19 Critical Split Split Split										willestone	~	mactive bann	iiui y												

T_ 1	Namo	Durati-	Dome:-:	Actual C+	Actual Fireial	Dlan Ctart	Dian Finish	Lato Ctart	Late Fini-I-	Db! - 1	Eroc	Time D'	Total										
lask	Name	Duration	Remaining Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical %		Time Risk Allowance			2020		2021		202	2		2023	202
	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	May 15, 2020	July 13, 2020	December 13, 2021	February 10, 2022	Complete 0%	434 days	(TRA)	577 days	L H2 Sun September 22	H1	H2 Subr	H1 hit & endlors	H2		H1 tory Aut	H2 horities/G	H1 ov. Dept	H2
	Dept	· ·					, .					·			I								
	AIP for Box Culvert and Intake Structures (Draft)	60 days	60 days	NA	NA	October 30, 2019	December 28, 2019	9 May 31, 2020	July 29, 2020	0%	0 days	1 day	214 days				ert and Intal						
	AIP for Box Culvert and Intake Structures (Final)	38 days	38 days	NA	NA	December 29, 2019	February 4, 2020	November 13, 2021	December 20, 2021	1 0%	52 days	0.5 days	685 days		AIP I	or Box Cu	lvert and In	ake Struc	ures (Fii	nal)			
ı	DDA for Box Culvert and Intake Structures (Draft)	90 days	90 days	NA	NA	December 29, 2019	March 27, 2020	July 30, 2020	October 27, 2020	0%	0 days	1 day	214 days		P	DA for Bo	x Culvert an	d Intake S	tructure	(Draft)			
;	DDA for Box Culvert and Intake Structures (Final)	52 days	52 days	NA	NA	March 28, 2020	May 18, 2020	December 21, 2021	February 10, 2022	0%	490 days	1 day	633 days		 	DDA for	Box Culvert	and Intak	e Struct	res (Fina	al)		
5	AIP for Remaining Works (Draft)	60 days	60 days	NA	NA	March 28, 2020	May 26, 2020	October 28, 2020	December 26, 2020	0 0%	0 days	1 day	214 days			AIP for	Remaining \	Vorks (Dr	ft)				
7	AIP for Remaining Works (Final)	38 days	38 days	NA	NA	May 27, 2020	July 3, 2020	November 13, 2021			52 days		535 days			AIP f	or Remainin	j Works (i	inal)				
3	DDA for Remaining Works (Draft)	90 days		NA	NA	May 27, 2020	August 24, 2020	September 22, 2021			0 days		483 days				OA for Rema			f II			
)	DDA for Remaining Works (Final) Elevated Landscape Deck Staircase & Associated Work	52 days 302 days	52 days	NA May 30, 2019	NA NA	August 25, 2020 May 30, 2019	October 15, 2020 March 26, 2020	December 21, 2021 May 30, 2019	February 10, 2022 May 5, 2020		340 days 40 days	1 day	483 days 40 days				DDA for Re Indscape De				Vork		
	·																						
2	Prepare AIP and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov.	96 days	0 days	May 30, 2019 September 3, 2019	September 2, 2019 September 20, 2019		September 2, 2019 September 20, 201	May 30, 2019 19 September 3, 2019	September 2, 2019 September 20, 201		0 days 0 days	3 days	0 days 0 days				ification (Di M and Statu	1 1	orities/G	iov. Dept	.		
	Dept		·						, ,			1 days	o days	_									
3	Prepare AIP and ICE certification (Final) Prepare DDA and ICE certification (Draft)	14 days 52 days	0 days 46.9 days	August 29, 2019 September 14, 201	September 11, 2019		September 11, 201	9 August 29, 2019 9 September 14, 2019	September 11, 201		· '	0 days 1 day	0 days 26 days				tification (Fi						
5	Submit & endorse by PM and Statutory Authorities/Gov.		60 days	NA	NA NA			December 24, 2019	· · · · · · · · · · · · · · · · · · ·			0.5 days	40 days				se by PM an	1 1	y Autho	rities/Go	v. Dept		
5	Dept Prepare DDA for and ICE certification (Final)	14 days	14 days	NA	NA	January 13, 2020	January 26, 2020	February 22, 2020	March 6, 2020	0%	0 days	0 days	40 days		Pren	re DDA f	or and ICE ce	rtification	(Final)				
7	Submit & endorse by PM and Statutory Authorities/Gov.		60 days	NA	NA	January 27, 2020	March 26, 2020	March 7, 2020	May 5, 2020	0%		0 days	40 days		7 III III		ndorse by P		11111111	thoritie	s/Gov. De _l	pt	
3	Dept Waterfront Promenade and At-grade Open Space	671 days	671 days	NA	NA	November 14, 2019	9 Sentember 1/1 20	December 10, 2019	October 10, 2021	0%	0 days		26 days						Waterfro	nt Prom	enade and	d At-grade (Open Space
9	Prepare AIP for Observation Deck with Lift and Staircase			NA	NA		•	December 10, 2019			-	1 day	26 days		Prepa	e AIP for	Observation					- 111	
0	and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	January 14, 2020	March 13, 2020	March 17, 2021	May 15, 2021	0%	0 days	0.5 days	428 days		Su	omit&e	dorse by PN	Land Stat	utory A	thorities	/Gov. Dep	ot	
	Dept		,			January 14, 2020	,	,	, .	070	o days	o.5 days	,										
1	Prepare AIP for Observation Deck with Lift and Staircaseand ICE certification (Final)	14 days	14 days	NA	NA	March 14, 2020	March 27, 2020	May 16, 2021	May 29, 2021	0%	18 days	0 days	428 days		_T-P	epare All	for Observ	ition Dedi	with Lif	t and Sta	ircaseand	ICE certific	ation (Final)
2	Prepare DDA for Observation Deck with Lift and	92 days	92 days	NA	NA	January 14, 2020	April 14, 2020	February 9, 2020	May 10, 2020	0%	0 days	1 day	26 days			repare D	DA for Obse	rvation D	ck with	Lift and	Staircase a	and ICE cert	ification (Draft
3	Staircase and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	April 15, 2020	June 13, 2020	May 30, 2021	July 28, 2021	0%	0 days	0.5 days	410 days			Submi	& endorse	by PM and	l Statuto	ry Autho	orities/Gov	v. Dept	
1	Dept Prepare DDA for Observation Deck with Lift and	14 days	14 days	NA	NA	June 14, 2020	June 27, 2020	July 29, 2021	August 11, 2021	0%	0 days	0 days	410 days			Prepa	re DDA for	Observatio	n Deck	with Lift	and Stairc	ase and ICE	certification (I
	Staircase and ICE certification (Final)		· ·								o uays	o uays											· certification (
5	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	June 28, 2020	August 26, 2020	August 12, 2021	October 10, 2021	0%	384 days	0 days	410 days			- 51	bmit & end	ouse by Pil	l and Sta	tutory A	uthorities	s/Gov. Dept	
5	Prepare AIP for Remaining Works at Waterfront Promenade and ICE certification (Draft)	60 days	60 days	NA	NA	January 14, 2020	March 13, 2020	September 24, 2020	November 22, 2020	0 %	0 days	1 day	254 days		- Pr	pare AIP	for Remaini	ng Works	at Wate	front Pro	omenade a	and ICE cert	ification (Draft
7	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	March 14, 2020	May 12, 2020	December 25, 2020	February 22, 2021	0%	0 days	0.5 days	286 days			Submit	k endorse by	PM and	tatutory	Authori	ties/Gov.	Dept	
8	Prepare AIP for Remaining Works at Waterfront Promenade and ICE certification (Final)	10 days	10 days	NA	NA	May 13, 2020	May 22, 2020	February 23, 2021	March 4, 2021	0%	0 days	0 days	286 days			Prepare	AIP for Ren	aining W	riks at W	/aterfron	t Promena	ade and ICE	certification (F
	· ,																						
9	Prepare DDA for Remaining Works at Waterfront Promenade and ICE certification (Draft)	90 days	90 days	NA	NA	May 23, 2020	August 20, 2020	March 5, 2021	June 2, 2021	0%	0 days	1 day	286 days			Pr	pare DDA f	or Remaii	ing Wo	rks at Wa	iterfront P	Promenade	and ICE certific
		CO -1	CO -1	A1.A		1	O-t-h 10, 2020	hun 2 2024	A	00/	0.4	0.5.4	205 4				Submit & e	rulareo la	DN4 and	Statuta	n. Authori	tios/Gov D	ont.
0	Submit & endorse by PM and Statutory Authorities/Gov. Dept	ьо дауѕ	60 days	NA	NA	August 21, 2020	October 19, 2020	June 3, 2021	August 1, 2021	0%	0 days	0.5 days	286 days										
1	Prepare DDA for Remaining Works at Waterfront Promenade and ICE certification (Final)	10 days	10 days	NA	NA	October 20, 2020	October 29, 2020	August 2, 2021	August 11, 2021	0%	0 days	0 days	286 days				Prepare D	DA for Re	maining	Works a	t Waterfro	ont Promen	ade and ICE cer
																							Dt
2	Submit & endorse by PM and Statutory Authorities/Gov. Dept	ьи days	60 days	NA	NA	October 30, 2020	December 28, 2020	u August 12, 2021	October 10, 2021	υ%	260 days	U days	286 days				Submi						
3	AIP for Cladding Desing of Landscape Deck, Lifts and associated Works (Draft)	60 days	60 days	NA	NA	October 28, 2020	December 26, 2020	0 November 23, 2020	January 21, 2021	0%	0 days	1 day	26 days				AIP for	ladding	Desing	f Lands	ape Deck,	, Lifts and a	ssociated Work
4	AIP for Cladding Desing of Landscape Deck, Lifts and	38 days	38 days	NA	NA	December 27, 2020	February 2, 2021	July 13, 2021	August 19, 2021	0%	52 days	0.5 days	198 days				AIP	or Claddii	g Desin	g of Land	dscape Dec	ck, Lifts and	associated Wo
5	associated Works (Final) DDA for Cladding Desing of Landscape Deck, Lifts and	90 days	90 days	NA	NA	December 27, 2020) March 26, 2021	May 22, 2021	August 19, 2021	0%	0 days	1 day	146 days					LIA for Cla	dding (esing of	Landscape	e Deck, Lift:	and associated
	associated Works (Draft)																		1				ifts and associa
6	associated Works (Final)	52 days	,.	NA	NA	March 27, 2021	May 17, 2021	August 20, 2021	October 10, 2021		120 days	1 udy	146 days							I -			
7	AIP for Water Works - Waterfront Promenade and at grade Open Space (Draft)	60 days	60 days	NA	NA	December 27, 2020	February 24, 2021	January 22, 2021	March 22, 2021	0%	0 days	1 day	26 days				Atr	ior Wate	Works	- Waterf	ront Prom	enade and	at grade Open
3	AIP for Water Works - Waterfront Promenade and at	38 days	38 days	NA	NA	February 25, 2021	April 3, 2021	July 13, 2021	August 19, 2021	0%	52 days	0.5 days	138 days					JP f or Wa	ter Worl	s - Wate	rfront Pro	omenade an	d at grade Ope
)	grade Open Space (Final) DDA for Water Works - Waterfront Promenade and at	90 days	90 days	NA	NA	February 25, 2021	May 25, 2021	May 22, 2021	August 19, 2021	0%	0 days	1 day	86 days					DDA to	Water	Works - \	Naterfron	t Promenac	e and at grade
0	grade Open Space (Draft) DDA for Water Works - Waterfront Promenade and at	52 days	52 days	NA	NA	May 26, 2021	July 16, 2021	August 20, 2021	October 10, 2021	0%	60 days	1 day	86 days					DDW	for Wat	er Wark	- Waterfr	ront Prome	nade and at gra
	grade Open Space (Final)	· ·										,											•
1	AIP for Balustrade and Railing of Promenade, Open Space and Assocated Works (Draft)	60 days	60 days	NA	NA	February 25, 2021	April 25, 2021	March 23, 2021	May 21, 2021	0%	0 days	1 day	26 days					ALP for B	ijustrade	and Rai	ling of Pro	omenade, O	pen Space and
2	AIP for Balustrade and Railing of Promenade, Open Space	38 days	38 days	NA	NA	April 26, 2021	June 2, 2021	July 13, 2021	August 19, 2021	0%	52 days	0.5 days	78 days					AIP for	Balustra	de and F	tailing of F	Promenade	Open Space a
	and Assocated Works (Final)																						
Revised P	Programme- Critical Task		Ma	anual Task	Duration-or	nly	Baseline Milestone	♦ Sum	mary	Ext	ternal Tasks		Inactive Mil	ilestone ♦	Ba	seline Summa	ry L	_					
D/2018/0	701 with Progress Critical Split Split Split		Sta	_	Baseline		Milestone		ual Summary		ternal Milesto	one ♦	Inactive Sur	•									
puate as	s of 22-Sep-19 Critical Progress Task Progr	ess	Fir	nish-only	Baseline Sp	lit	Summary Progress	Proje	ect Summary	Ina	active Task		Deadline	+									

Part	3 4 5 5 6 7 8 8 9	DDA for Balustrade and Railing of Promenade, Open Space and Assocated Works (Draft)			. ictual start		a Start		_acc start		'				2020		2	n21		2022		2022		
Control of the Cont	4 5 6 7	Space and Assocated Works (Draft)	00.1															111	1112	2022	.	2023	.	202
Control processes Cont	5 6 7 8	, , ,	90 days	90 days	NA	NA	April 26, 2021	July 24, 2021	May 22, 2021	August 19, 2021			,		H			HI	DDA	for Balust	trade and	Railing of P	omenade, C	pen Spa
Part Anther March Marc	6 7 8	Space and Assocated Works (Final)	52 days	52 days	NA	NA	July 25, 2021	September 14, 202	21 August 20, 2021	October 10, 2021	0% 0 day	s 1 day	ay 26 days						DI	A for Ba	lustrade a	and Railing o	f Promenad	a, Open S
Control Cont	7	• •	- '							November 15, 2022	2 0% 26 da	iys	26 days										_	
March Control And Annual Ann	8		61 days	61 days	NA	NA	March 29, 2020	May 28, 2020	April 24, 2020	June 23, 2020	0% 0 day	s 1 day	ay 26 days			Prepa	re AIP to	r Roads	ide Lands	caping S	oftworks a	and ICE cert	fication (Dra	ft)
Second Control		Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	May 29, 2020	July 27, 2020	April 22, 2022	June 20, 2022	0% 0 day	s 0.5 d	days 693 days			Su	bmit &	endors	by PM aı	nd Statuto	ory Autho	orities/Gov. I	Pept	
Progress of the Control of the Con	}	• •	14 days	14 days	NA	NA	July 28, 2020	August 10, 2020	June 21, 2022	July 4, 2022	0% 18 da	ys 0 day	ays 693 days			P	repare A	IP for n	adside la	ndscapin	g softwor	rks and ICE o	ertification (Final)
Auto-Auto-Auto-Auto-Auto-Auto-Auto-Auto-		, ,	E 92 days	92 days	NA	NA	May 29, 2020	August 28, 2020	June 24, 2020	September 23, 2020	0 0% 0 day	s 1 day	ay 26 days				Prepare	DDA for	Floadside	Landsca	iping Soft	works and I	E certificati	on (Draf
Property Company Com)	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	August 29, 2020	October 27, 2020	July 5, 2022	September 2, 2022	0% 0 day	s 0.5 d	days 675 days				Subr	nit & en	dorse by	PM and S	statutory .	Authorities/	Gov. Dept	
Section Sect	1	Prepare DDA for Roadside Landscaping Softworks and IC	E 14 days	14 days	NA	NA	October 28, 2020	November 10, 2020	0 September 3, 2022	September 16, 2022	2 0% 0 day	s 0 day	ays 675 days				Pre	are DE	A for Roa	dside Lan	ıdscaping	Softworks a	nd ICE certif	ication (
Propose for the reservation and selection Section	2	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	November 11, 2020	January 9, 2021	September 17, 2022	November 15, 2022	0% 587 d	lays 0 day	ays 675 days					Submit	endors	by PM a	and Statut	tory Authori	ies/Gov. De	pt
Martin M	3	Prepare AIP for irrigation system for all landscaping	60 days	60 days	NA	NA	August 29, 2020	October 27, 2020	September 24, 2020	November 22, 2020	0% 0 day	s 1 day	ay 26 days				Prep	are AIP	or irrigat	ion syste	m for all l	landscaping	works and I	E certifi
Page Mark Page	4	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	October 28, 2020	December 26, 2020	0 March 17, 2022	May 15, 2022	0% 0 day	s 0.5 d	days 505 days				S	ubmit 8	endorse	by PM ar	nd Statute	ory Authorit	es/Gov. Dep	t
Property Content on plant pl	5	Prepare AIP for irrigation system for all landscaping	10 days	10 days	NA	NA	December 27, 2020	January 5, 2021	May 16, 2022	May 25, 2022	0% 0 day	s 0 day	ays 505 days				-	Prepare	AIP for ir	rigation s	ystem for	r all landscap	ing works a	nd ICE ce
Analysis March M	6	Prepare DDA for irrigation system for all landscaping	90 days	90 days	NA	NA	January 6, 2021	April 5, 2021	May 26, 2022	August 23, 2022	0% 0 day	s 1 day	ay 505 days				#	Per	pare DD/	for irrig	ation sys1	tem for all la	ndscaping w	orks and
Propose Contemporal property and property of the Property of 19 (19 cm) 19 cm 19	7	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	April 6, 2021	June 4, 2021	August 24, 2022	October 22, 2022	0% 0 day	s 0.5 d	days 505 days						Submit &	B. endorse	e by PM a	nd Statutory	Authorities	/Gov. De
Exercise of the section of the secti	8	Prepare DDA for irrigation system for all landscaping	10 days	10 days	NA	NA	June 5, 2021	June 14, 2021	October 23, 2022	November 1, 2022	0% 0 day	s 0 day	ays 505 days						Prepare	DDA for	irrigation	system for	all landscapi	ng work
Mary	9	Submit & endorse by PM and Statutory Authorities/Gov.	14 days	14 days	NA	NA	June 15, 2021	June 28, 2021	November 2, 2022	November 15, 2022	0% 417 d	lays 0 day	ays 505 days						Submit	& endor	se by PM	and Statuto	ry Authoritie	s/Gov. I
Section Calum Ca) Work	- 17 -	1394 days	1394 days	NA	NA	August 4, 2020	May 29, 2024	August 7, 2020	May 29, 2024	0% 0 day	rs	0 days			Ш								
Exciscio Calum C	-	• •		· ·	NA															9	Section 1			
Section Column	2 Se	ection 2	0 days	0 days	NA	NA	May 26, 2021	May 26, 2021	June 2, 2021	June 2, 2021	0% 6 day	s 0 day	ays 6 days						Section	2				
Section	3 Se	ection 3	0 days	0 days	NA	NA	October 28, 2021	October 28, 2021	November 2, 2021	November 2, 2021	0% 4 day	s 0 day	ays 4 days						•	Section	3			
Section 5																				J _E			Section	4
Section C. days Glays May	-																		Sectio	n 5			Cantia	
Section Cary	-			· '							,												Section	10
Section				- '					- ' '											Soction	n 8			
Section 3 Design Graph	-			- '				,	· ·	· ·									Section	Jacob Jacob				
100 100				· '				· ·		· ·									300				Section	10
192 193						NA										K	D1							
503 Solit	2 KD	02		- · ·		NA						ys 0 day						∝ κ⊅	2					
NOS Outsy Outsy Outsy NA NA September 17, 2012 Septembe		03			NA	NA					0% 9 day	s 0 day							к рз					
Contraction Works 1995 day 50 days 50		04			NA	NA		January 31, 2022	January 31, 2022	January 31, 2022										≪ KC) 4			
Contraction Work		05		0 days	NA	NA				September 17, 2021									₩ K	D5				
Construction Works 1898 days 1891 849 1891 1891 1891 1891 1891 1891	6 KD	06	0 days	0 days	NA	NA	December 14, 2021	December 14, 2021	1 December 29, 2021	December 29, 2021	0% 11 da	ys 0 day	ays 11 days							KD6				
Office Accommodation	7 KD	07	0 days	0 days	NA	NA	May 27, 2022	May 27, 2022	June 3, 2022	June 3, 2022	0% 5 day	s 0 day	ays 5 days											
Procurement of Materials and Equipments	S Cons	struction Works	1499 days	1491.94 days	May 16, 2019	NA	May 16, 2019	May 29, 2024	May 16, 2019	May 29, 2024	0% 0 day	's	0 days											_
Exacution Permit 429 days 29 days 29 days 30 days 132 days 125 days 132 da	-		53 days				August 8, 2019	October 31, 2019	August 8, 2019	January 10, 2020	40% 58 da	iys <mark>1 day</mark>	58 days		ffice Acc	ommoda	tion							
Hole Bodd Diversion 3m wide within Kai Tak Sport Part 1 32 days 132 days 82 days September 12, 2019 NA Nay 16, 2019 March 13, 2020 May 18, 2019 May	-	• •											-	1						rement o	of Materia	als and Equi	ments	
Section 1 Agree Interface Coordination Plan with CRR & KTSP 1 d days 0 d say Agree Interface Coordination Plan with CRR & KTSP 1 d days 0 d say Agree Interface Coordination Plan with CRR & KTSP 1 d days 0 d say Agree Interface Coordination Plan with CRR & KTSP 1 d days 0 d say 1 d s	-			-			•	•				-	-				7							
Agree Interface Coordination Plan with CKR & KTSP	-			_					·							iaui Road			ine with		·	ırı.		
Ground Investigation 60 days 52 days September 12, 2019 NA September 12, 2019 NA September 12, 2019 January 10, 2020 0% 38 days 0.5 days 0.5 days 0.5 days 38 days 0.5 days 38 days 0.5 days 38 days 0.5	_) Age	a Interf	ra Coor	dination	Dlan w	יו כע אי		section 1			
Gi Work	_	•																riaii wi	. CK C	N. SF				
Part 1 - Junction Modification Rd L6 & D2 80 days 80 days NA NA NA November 22, 2021 March 1, 2022 November 22, 2021 March 1, 2022 O% 0 days	4	-		-					-			•												
Break up existing pavement and traffic Island 12 days 12 days 12 days NA NA November 22, 2021 December 4, 2021 November 22, 2021 December 4, 2021 O% 0 days 0 days 1				· ·																	Part 1 - Ju	ınction Mod	fication Rd	.6 & D2
Utility ducting laying (by others) 25 days 7 days 7 days 7 days NA NA December 6, 2021 December 13, 2021 December 12, 2021 December 12, 2021 December 12, 2021 December 13, 2021 December 12, 2021 December 13, 2021 December 14, 2022 December 13, 2021 December 14,	5			<u> </u>																			1111	
Trim formation and lay sub base 7 days 7 days NA NA December 13, 2021 December 20, 2021 December 20, 2021 December 20, 2021 0% 0 days	7			· '																	-			
Lay kerb 12 days 12 days NA NA December 21, 2021 January 6, 2022 December 21, 2021 January 6, 2022 O% Odays Oday	8																				-	. 1 - -	1111	
Construct pedestrian street/ footpath 7 days 7 days NA NA January 7, 2022 January 14, 2022 January 15, 2022 January 28, 2022	9	, , , , , , , , , , , , , , , , , , ,									,													
Install central median 12 days 12 days NA NA January 15, 2022 January 28, 2022)	•		- '																Con	struct per	destrian stre	et/ footpath	
Concrete infill between profile barrier 4 days 4 days NA NA January 29, 2022 February 5, 2022 January 29, 2022 February 5, 2022 January 29, 2022 February 5, 2022 January 29, 2022 February 11, 2022 O% 0 days 0 da	1			- '																				
Road pavement 5 days 5 days NA NA February 7, 2022 February 11, 2022 February 11, 2022 February 11, 2022 O% 0 days	2			· '		NA														∦ ¢o	ncrete inf	fill between	orofile barri	er
Part 1 - Road D3 CH1000-1087 269 days 269 days NA NA January 5, 2021 November 29, 2021 February 25, 2021 March 1, 2022 0% 41 days A lanuary 5, 2021 Marc	3	Road pavement	5 days	5 days	NA	NA		February 11, 2022	February 7, 2022	February 11, 2022										Ro	oad paven	nent		
rised Programme- (2018/01 with Progress tate as of 22-Spn-19	4	Install street furniture	15 days	15 days	NA	NA	February 12, 2022	March 1, 2022	February 12, 2022	March 1, 2022	0% 0 day	s 1 day	ays 0 days							ir	nstall stre	et furniture		
2018/01 with Progress Critical Split Start-only E Baseline Milestone Manual Summary External Milestone Inactive Summary	5	Part 1 - Road D3 CH1000-1087	269 days	269 days	NA	NA	January 5, 2021	November 29, 202	1 February 25, 2021	March 1, 2022	0% 41 da	iys	41 days							Part 1	- Road D	3 CH1000-10	87	
2018/01 with Progress Critical Split Start-only E Baseline Milestone Manual Summary External Milestone Inactive Summary																								
2018/01 with Progress Critical Split Start-only E Baseline Milestone Manual Summary External Milestone Inactive Summary	Revised 1	Programme- Critical Task	_	Ma	anual Task	Duration	-only	Baseline Milestone	♦ Sum	nmary	External Ta	isks	Inactive N	ilestone ♦	В	seline Sumn	nary 🖳		_					
tate as of 22-Sen-19								Milestone									-							
					•		Split	Summary Progress																

Task Name	Duration	Remaining Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Fr % Sla		Time Risk Total Allowances Slack	2019 2020 2021 2022 2023
Allow Assess have as CHARRO and CHARRO for EMCD This	O days				January 5, 2024	In a control of 2024	5-h	Falance 25, 2024	Complete	(TRA)	H1 H2 H1 H2 H1 H2 H1 H2 H1 H2
Allow Access between CH1000 and CH1087 for EMSD Thied District Cooling System for Associated Pipeline Laying (Assume the DCS Pipeline Lay within CH1010 and Ch1087	0 days	0 days	NA	NA	January 5, 2021	January 5, 2021	February 25, 2021	February 25, 2021	0% 26	days	51 days	Sun September 22 Allow Arctess DetWeen CH1000 and CH1087 for ENSO I filed Disti
Area) Between CH1000 and CH1087 Area Handover Back from EMSD third District Cooling System Contractor	0 days	0 days	NA	NA	July 30, 2021	July 30, 2021	August 24, 2021	August 24, 2021	0% 25	days	25 days	Eatwaen CH1000 and CH1087 Area Handover Back
Utility ducting laying (by others)	26 days	26 days	NA	NA	August 24, 2021	September 23, 202:	1 August 24, 2021	September 23, 202	1 0% 0 0	days 2	days 0 days	Utility ducting laying (by others)
Trim road formation	3 days	3 days	NA	NA	September 24, 202	1 September 27, 202	1 September 24, 2021	September 27, 202	1 0% 0 0	days (0 days	
Lay sub base	7 days	7 days	NA	NA	September 28, 202		September 28, 2021			days (
Lay kerb Construct pedestrian street/ footpath	12 days 7 days	12 days 7 days	NA NA	NA NA	October 7, 2021 October 22, 2021		October 7, 2021 October 22, 2021	October 21, 2021 October 29, 2021			0 days 0 days 0 days	
Install central median	10 days	10 days	NA	NA NA	October 30, 2021	November 10, 2021	· · · · · · · · · · · · · · · · · · ·	November 10, 202		days (
Concrete infill between profile barrier	4 days	4 days	NA	NA			November 11, 2021	· ·			days 0 days	
Road pavement	5 days	5 days	NA	NA	November 16, 202	1 November 20, 2021	November 16, 2021	November 20, 202			days 0 days	Road pavement
Install street furniture	7 days	7 days	NA	NA	November 22, 202	1 November 29, 2021	February 22, 2022	March 1, 2022	0% 73	days	days 73 days	s Tinstall street furniture
Bridge D3 (Approach Ramp and Bridge) CH1087-1444.7	812 days	812 days	NA	NA	May 16, 2019		December 28, 2019			days	19 days	
North Approach Ramp (Fronting CKR) CH1087-1189.4 - 7 bays	306 days	306 days	NA	NA	September 23, 2019	October 3, 2020	December 28, 2019			days	79 days	North Approach Ramp (Fronting CRR) CH1087-1189.4 - 7 bays
Procurement of Movement Joints for Bridge Works Ground Monitoring Works	90 days	90 days	NA NA	NA NA	January 11, 2020	April 9, 2020	March 4, 2020	June 1, 2020		days	53 days	
Mobilization of plant and material	14 days 10 days	14 days 10 days	NA NA	NA NA	September 23, 201 January 11, 2020	January 22, 2020	December 28, 2019 January 11, 2020	January 10, 2020 January 22, 2020			0 days 96 days 0 days	
Foundation Construction	64 days	64 days	NA	NA	January 23, 2020	April 14, 2020	January 23, 2020	April 14, 2020			days 0 days	
Drive sheetpile (~200m) Prod. Rate: 10m/d/team	20 days	20 days	NA	NA	April 15, 2020	May 10, 2020	April 18, 2020	May 13, 2020			days 3 days	
Excavation ~1,876m3 & lateral support. Prod. Rate:	12 days	12 days	NA	NA	May 11, 2020	May 24, 2020	May 14, 2020	May 27, 2020	0% 0 0	days	days 3 days	Excavation ~1,876m3 & lateral support. Prod. Rate: 160m3/day/team (Bay 1 to
160m3/day/team (Bay 1 to 7) Blinding layer. Prod. Rate: 2bays/day	4 days	4 days	NA	NA	May 25, 2020	May 28, 2020	May 28, 2020	June 1, 2020	0% 0 0	days () days 3 days	Blinding layer. Prod. Bate: 2bays/day
Base slab Prod. Rate: 8d/bay/team	56 days	56 days	NA	NA	May 29, 2020	August 4, 2020	June 2, 2020	March 15, 2021			days 3 days	
Base slab (Bay 2 & 4) -1 team	16 days	16 days	NA	NA	May 29, 2020	June 16, 2020	June 2, 2020	June 19, 2020			days 3 days	
Base slab (Bay 1 & 3) - 1 team	16 days	16 days	NA	NA	June 17, 2020	July 7, 2020	June 20, 2020	July 10, 2020	0% 0 0	days :	days 3 days	Base slab (Bay 1 & 3) - 1 team
Base slab (Bay 5 & 7) - 1 team	16 days	16 days	NA	NA	July 8, 2020	July 25, 2020	January 25, 2021	February 11, 2021	0% 0 0	days (days 166 day	
Base slab (Bay 6) - 1 team	8 days	8 days	NA	NA	July 27, 2020	August 4, 2020	March 6, 2021	March 15, 2021		days (
Wall. Prod. Rate: 12d/bay/team	74 days	74 days	NA	NA	July 8, 2020	October 3, 2020	July 11, 2020	April 17, 2021		days 3		
Wall (Bay 2 & 4) - 2 teams Wall (Bay 1 & 3) 2 teams (KD1)	12 days 12 days	12 days 12 days	NA NA	NA NA	July 8, 2020	July 21, 2020	July 11, 2020	July 24, 2020 August 7, 2020			days 3 days 3 days	
Wall (Bay 5 & 7) - 1 team	24 days	24 days	NA	NA NA	July 22, 2020 August 5, 2020	August 4, 2020 September 1, 2020	July 25, 2020 February 16, 2021	March 15, 2021		days (
Wall (Bay 6) - 1 team (KD2)	12 days	12 days	NA	NA		September 15, 2020	· · · · · · · · · · · · · · · · · · ·	March 29, 2021			days 158 day	
Backfill and extract sheet pile	14 days	14 days	NA	NA	September 16, 202	0 October 3, 2020	March 30, 2021	April 17, 2021	0% 14	4 days (days 158 day	ys Backfill and extract sheet pile
North Approach Ramp (Fronting KTSP) CH1087-1189.4 - 7 bays	608 days	608 days	NA	NA	October 7, 2019	October 23, 2021	April 1, 2020	February 21, 2022	0% 97	days	97 days	
Ground Monitoring Works	14 days	14 days	NA	NA	October 7, 2019	October 20, 2019	April 1, 2020	April 14, 2020			days 177 day	
Mobilization of plant and materials	19 days	19 days	NA NA	NA	April 15, 2020	May 8, 2020 August 28, 2020	April 15, 2020	May 8, 2020			days 0 days	
Foundation Construction Drive sheetpile (~200m) Prod. Rate: 10m/d/team	94 days 24 days	94 days 24 days	NA NA	NA NA	May 9, 2020 August 29, 2020	September 25, 2020	May 9, 2020	August 28, 2020 September 25, 202		, .	days 0 days	
Excavation ~1,996m3 & lateral support. Prod. Rate:	18 days	18 days	NA	NA			September 26, 2020				days 0 days	
160m3/day/team										·		
Blinding layer. Prod. Rate: 2bays/day	13 days	13 days	NA	NA	October 20, 2020	November 4, 2020		November 4, 2020			0 days	
Base slab (Bay 1 to 7) Prod Rate: 8d/bay/team- 1 team	64 days 95 days	64 days 95 days	NA NA	NA NA	November 5, 2020	January 21, 2021 May 21, 2021	November 5, 2020	January 21, 2021 May 21, 2021		days 3	days 0 days 0 days	
Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3) Backfilling ~8,372.91m3 within approach ramp to	53 days	53 days	NA NA	NA NA	January 22, 2021 May 22, 2021	July 24, 2021	January 22, 2021 May 22, 2021	July 24, 2021		-	days 0 days	
formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp	24 davs	24 days	NA	NA	July 27, 2021	August 23, 2021	July 27, 2021	August 23, 2021	0% 0 0	days :	days 0 days	Placing of precast planting channel along approach
Utility ducting laying (by others)	26 days	26 days	NA	NA	July 26, 2021	August 24, 2021	July 26, 2021	August 24, 2021		days :		
Construct pedestrian street/ footpath	5 days	5 days	NA	NA	August 25, 2021	August 30, 2021	August 25, 2021	August 30, 2021	0% 0 0	days (0 days	
Install central median	6 days	6 days	NA	NA	August 31, 2021	September 6, 2021	,	September 6, 2021			0 days	
Concrete infill between profile barrier	5 days	5 days	NA	NA			· ·			days (
Lay sub base	4 days	4 days	NA NA	NA NA			September 13, 2021			-	0 days	
Road pavement Install railing on top of retaining wall & street furniture	5 days 24 days	5 days 24 days	NA NA	NA NA			1 September 17, 2021 January 21, 2022	February 21, 2022			0 days 0 days 0.5 days 97 days	
Part 3G - CH1189.4 to CH1229 North Abutment	286 days	286 days	NA	NA	April 15, 2020	March 29, 2021	May 4, 2020	April 17, 2021		days	14 days	
Pre-drilling Works	14 days	14 days	NA	NA	April 15, 2020	April 28, 2020	May 4, 2020	May 17, 2020		days 1		
Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.	80 days	80 days	NA	NA	April 29, 2020	August 4, 2020	May 18, 2020	,		days 2	days 14 days	
Pile Testing (28d curing & 14 test) - 1 full-core to be carried out	42 days	42 days	NA	NA	August 5, 2020	September 22, 2020		October 10, 2020		days 2	2 days 14 days	
Proof-drilling Works	7 days	7 days	NA	NA	August 5, 2020	August 11, 2020	October 4, 2020	October 10, 2020		days (· ·	
Pile Loading Test	16 days	16 days	NA	NA	September 23, 202		October 11, 2020	October 26, 2020		days :		
Drive sheetpile (~90m) Prod. Rate: 10m/d/team Excavation ~780m3 & lateral support. Prod. Rate:	9 days 6 days	9 days 6 days	NA NA	NA NA	October 9, 2020 October 20, 2020	October 19, 2020 October 27, 2020	October 27, 2020 November 6, 2020	November 5, 2020 November 12, 202		days (days 14 days days 14 days	
160m3/day/team Blinding layer	1 day	1 day	NA	NA	October 28, 2020	October 28, 2020	November 13, 2020	November 13, 202	0 0%	days () days 14 days	s Blinding layer
Base Slab	20 days	20 days	NA	NA	October 29, 2020		November 14, 2020			days :		
						·						
evised Programme- Critical Task			anual Task	Duration	n-only	Baseline Milestone		imary	Externa			Inactive Milestone Saseline Summary
2018/01 with Progress Critical Split Split Split Split Critical Progress Task Proc		St	art-only [Baseline Baseline	- "	Milestone		ual Summary	Externa	al Mileston	e ♦	Inactive Summary
Task Progress			oren entre			Summary Progress is		ect Summary	Inactiv	- .		Deadline 🖖

Task I	Name	Duration		Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Free		e Risk Total	10 2020 2021 2022
			Duration							% Slac	k Allow (TRA)	wances Slack	19
5	Wall (3.85m thk). Prod. Rate: 18d/bay/team	30 days	30 days	NA	NA	November 21, 2020	December 28, 2020	December 8, 2020	January 14, 2021	0% 0 da		/	Sun September 22 Wall (3.85 m thk). Hrod. Rate: 18d/blay/team
	Wall (0.5m thk). Prod. Rate: 14d/bay/team (KD2)	74 days	74 days	NA	NA	December 29, 2020	March 29, 2021	January 15, 2021	April 17, 2021	0% 0 da	ys 0 day	ys 14 days	Wall (0.5m thk). Prod. Rate: 14d/bay/team (KD2)
	Backfill and extract sheet pile	7 days	7 days	NA	NA	December 29, 2020	January 6, 2021	March 27, 2021	April 7, 2021	0% 0 da	ys 0 day	ys 72 days	Backfill ari <mark>d</mark> ext <mark>ract sheet</mark> pile
3	Install bridge bearing	7 days	7 days	NA	NA	January 7, 2021	January 14, 2021	April 8, 2021	April 15, 2021	0% 61 c	ays 0 day	ys 72 days	≓Install bri <mark>d</mark> ge b <mark>e</mark> aring
9	Part 3C - CH1229 to CH1279	573 days	573 days	NA	NA	January 11, 2020	December 14, 2021	January 20, 2020	December 29, 2021	. 0% 7 da	ys	7 days	Part 3C - CH1229 to CH1279
)	Mobilization of plant and material	6 days	6 days	NA	NA	January 11, 2020	January 17, 2020	January 20, 2020	January 29, 2020	0% 0 da		ys 7 days	Mobilization of plant and material
1	Pre-drilling Works	14 days		NA	NA	March 21, 2020	April 7, 2020	May 14, 2020	May 29, 2020	0% 0 da			Pre-drilling Works
2	Bored pile (3 numbers) @ CH1229. Prod. Rate:	36 days		NA	NA	March 21, 2020	May 8, 2020	May 14, 2020	June 24, 2020	0% 0 da			Bored pile (3 numbers) @ CH1229, Prod. Rate: 12d/pile/rig.
_	12d/pile/rig.	30 days	30 days	NO.	IV.	Warch 21, 2020	IVIAY 0, 2020	Way 14, 2020	Julie 24, 2020	070 0 00	y3 0.5 uc	lays 40 days	
3	Pile Testing (14d curing & 14 test)	28 days	28 days	NA	NA	May 9, 2020	June 10, 2020	June 26, 2020	July 29, 2020	0% 0 da	ys 0.5 da	lays 40 days	Pile Testing (14d curing & 14 test)
4	Proof-drilling Works	7 days	7 days	NA	NA	May 9, 2020	May 15, 2020	July 23, 2020	July 29, 2020	0% 26 c	ays 0 day	ys 75 days	Proof-drilling Works
5	Pile Loading Test	14 days	14 days	NA	NA	June 11, 2020	June 24, 2020	July 30, 2020	August 12, 2020	0% 1 da			Pile Loading Test
6	Pile Cap @ CH1229	64 days	64 days	NA	NA	June 26, 2020	September 9, 2020	· · ·	September 23, 20			12 days	Pile Cap @ C(1,229
7	Drive sheetpile (~75m). Prod. Rate:	8 days		NA	NA	June 26, 2020	July 6, 2020	August 13, 2020		0% 0 da	•		Drive sheetpile (~75m). Prod. Rate: 10m/day/side/team
	10m/day/side/team	o days	o days	147.	147.	June 20, 2020	July 0, 2020	// ragust 15, 2020	/ lagust 21, 2020	070	ys o day	ys 40 ddys	
8	Excavation ~755m3 & lateral support. Prod. Rate:	5 days	5 days	NA	NA	July 7, 2020	July 11, 2020	August 22, 2020	August 27, 2020	0% 0 da	ys 0 day	ys 40 days	Excavation ~755m3 & lateral support. Prod. Rate: 160m3/day/team
	160m3/day/team												
)	Blinding layer	1 day	1 day	NA	NA	July 13, 2020	July 13, 2020	August 28, 2020	,		ays 0 day	ys 40 days	
	Pilecap structure	14 days	14 days	NA	NA	August 15, 2020	August 31, 2020	August 29, 2020	September 14, 202	0 da	ys 1 day	ys 12 days	Pilecap structure
	Backfill and extract sheet pile	8 days	8 days	NA	NA	September 1, 2020	September 9, 2020	September 15, 2020	September 23, 202	0 0% 0 da	ys 0 day	ys 12 days	∦ Backfill and extra <mark>ct</mark> she <mark>et pi</mark> le
	Pier @ CH1229	48 days	48 days	NA	NA	September 10, 202	November 7, 2020	September 24, 2020	November 21, 2020	0 0% 0 da	ys 2 day	ys 12 days	Pier @ CH1225
	Pre-drilling Works	14 days	14 days	NA	NA	January 18, 2020	January 31, 2020	January 30, 2020	February 12, 2020	0% 0 da	ys 1 day	ys 12 days	Pre-drilling Works
ı	Bored pile (3 numbers) @ CH1269. Prod. Rate:	30 days	30 days	NA	NA	February 1, 2020	March 6, 2020	February 13, 2020	March 18, 2020	0% 0 da		ys 10 days	Bored pile (3 numbers) @ CH0269. Prod. Rate: 10d/pile/rig.
	10d/pile/rig.								·			,	
	Pile Testing (14d curing & 14 test)	28 days	28 days	NA	NA	March 7, 2020	April 9, 2020	April 21, 2020	May 25, 2020	0% 0 da	ys 0.5 da	lays 34 days	Pile Testing (14d curing <mark>& 1</mark> 4 test)
	Proof-drilling Works	7 days	7 days	NA	NA	March 7, 2020	March 13, 2020	May 19, 2020	May 25, 2020	0% 27 c	ays 0 day	ys 73 days	Proof-drilling Works
	Pile Loading Test	14 days	14 days	NA	NA	April 10, 2020	April 23, 2020	May 26, 2020	June 8, 2020	0% 0 da	ys 0 day	ys 46 days	Trile Loading Test
	Pile Cap @ CH1269	42 days	· ·	NA	NA	April 24, 2020	June 13, 2020	June 9, 2020	July 29, 2020	0% 37 d		37 days	Pile Cap @ CH1269
,	Drive sheetpile (~75m). Prod. Rate:	8 days		NA	NA	April 24, 2020	May 5, 2020	June 9, 2020	June 17, 2020	0% 0 da	•	ys 37 days	Drive sheetpile (~75m), Prod. Rate: 10m/day/side/team
	10m/day/side/team	,-	,-			= ., ====	, 5, 2225				,,	,,.	
1	Excavation ~1677m3 & lateral support. Prod. Rate:	11 days	11 days	NA	NA	May 6, 2020	May 18, 2020	June 18, 2020	July 2, 2020	0% 0 da	ys 0 day	ys 37 days	Ekcavation ~1677m3 & lateral support. Prod. Rate: 1.60m3/day/team
	160m3/day/team												
	Blinding layer	1 day	1 day	NA	NA	May 19, 2020	May 19, 2020	July 3, 2020	July 3, 2020	0% 0 da	ys 0 day	ys 37 days	Blinding layer
	Pile Cap structure	14 days	14 days	NA	NA	May 20, 2020	June 4, 2020	July 4, 2020	July 20, 2020	0% 0 da	ys 0 day	ys 37 days	Pile Cap structure
	Backfill and extract sheet pile	8 days	8 days	NA	NA	June 5, 2020	June 13, 2020	July 21, 2020	July 29, 2020	0% 0 da	ys 0 day	ys 37 days	Backfill and extract sheet pile
	Pier @ CH1269	48 days	48 days	NA	NA	June 15, 2020	August 11, 2020	July 30, 2020	September 23, 202	0 0% 25 c	ays 0 day	ys 37 days	Pier @ CH1269
	Bridge deck between CH1229-1269 [DB-SQ1]	116 days	116 days	NA	NA	November 9, 2020	March 30, 2021	January 22, 2021	April 15, 2021	0% 11 0	ays	11 days	Brid <mark>ge</mark> de <mark>ck</mark> between CH1229-1269 [DB-SQ1]
	Falsework erection	7 days	7 days	NA	NA	November 9, 2020	November 16, 2020	January 22, 2021	January 29, 2021	0% 50 c	ays 0 day	ys 61 days	Falsework erection
	Structure deck	28 days	28 days	NA	NA	January 19, 2021	February 23, 2021	February 1, 2021	March 8, 2021	0% 0 da	ys 1 day	ys 11 days	Structure deck
3	Prestressing	16 days	16 days	NA	NA	March 12, 2021	March 30, 2021	March 25, 2021	April 15, 2021	0% 0 da			Pristressing
)	Median barrier, utility through, parapet	45 days	· ·	NA	NA	March 31, 2021	May 27, 2021	May 10, 2021	July 3, 2021	0% 0 da			Median barrier, utility through, parapet
0	Utility ducting laying (by others)	14 days	14 days	NA	NA	May 28, 2021	lune 12 2021		October 12, 2021	0% 65 0			Litity ducting laying (by others)
1	Street furniture (KD6)	21 days		NA	NA		December 14, 2021		December 29, 2021				Street furniture (KD6)
2	Bridge deck between CH1189-1229 [DB-T2-SQ2]	64 days		NA	NA NA	March 31, 2021	June 19, 2021	· · · · · · · · · · · · · · · · · · ·	July 3, 2021	0% 11 c		11 days	
	• • • • • • • • • • • • • • • • • • • •							April 16, 2021				-	Falsework erection
_	Falsework erection	7 days		NA	NA	March 31, 2021	April 10, 2021	April 16, 2021	April 23, 2021	0% 0 da			
	Structure deck	28 days		NA	NA	April 12, 2021	May 14, 2021	April 24, 2021	May 28, 2021		ys 1 day		Structure deck
	Prestressing	15 days		NA	NA	June 2, 2021	June 19, 2021	June 16, 2021	July 3, 2021		ys 1 day		Prestressing
	Median barrier, utility through, parapet	46 days		NA	NA	June 21, 2021		July 5, 2021			ys 2 day		Median barrier, utility through, parapet
	Utility ducting laying (by others)	14 days	14 days	NA	NA	August 14, 2021	,	September 25, 2021	October 12, 2021	0% 0 da	ys 0 day	ys 35 days	Litty ducting laying (by others)
	Street furniture	21 days	21 days	NA	NA	August 31, 2021	September 24, 2021	October 13, 2021	November 6, 2021	0% 24 c	ays 0 day	ys 35 days	Street furniture
	Part 3D - CH1279 to CH1311	257 days	257 days	NA	NA	January 9, 2021	November 19, 2021	January 22, 2021	December 2, 2021	0% 11 0	ays	11 days	Part 3D - CH1279 to CH1311
	Bridge deck between CH1269-1314 [DB-SQ1]	73 days	73 days	NA	NA	January 9, 2021	April 10, 2021	January 22, 2021	April 23, 2021	0% 11 0	ays	11 days	Bridge deck between CH1269-1314 [DB-SQ1]
	Falsework erection	8 days	8 days	NA	NA	January 9, 2021	January 18, 2021	January 22, 2021	January 30, 2021	0% 0 da	ys 0 day	ys 11 days	Fallse work erection
	Structure deck	28 days	28 days	NA	NA	January 19, 2021	February 23, 2021	February 1, 2021	March 8, 2021	0% 0 da	ys 1 day	ys 11 days	Strukture deck
	Prestressing	23 days	23 days	NA	NA	March 12, 2021	April 10, 2021	March 25, 2021	April 23, 2021	0% 0 da			Prestressing
	Median barrier, utility through, parapet	45 days	· ·	NA	NA	August 14, 2021	October 7, 2021	August 27, 2021	October 21, 2021		ys 2 day		Median barrier, utility through, parapet
+	Utility ducting laying (by others)	14 days		NA	NA	October 8, 2021		October 22, 2021	November 6, 2021		ys 1 day		Utility ducting laying (by others)
	Street furniture (KD6)	22 days		NA	NA	October 26, 2021	November 19, 2021		December 2, 2021		ys 0 day		\$treet furniture (KD6)
	Part 3E - CH1311 to CH1372	407 days		NA	NA NA	March 7, 2020	July 22, 2021	March 19, 2020	October 23, 2021			10 days	Part SE - CH1311 to CH1372
	Pre-drilling Works			NA NA	NA NA	March 7, 2020	March 20, 2020		April 1, 2020		•		Pre-drilling Works
	-	14 days	- '	NA	NA NA			March 19, 2020			ys 0	12 days	Bored pile (5 numbers) © CH1314. Prod. Rate: 10d/pile/rig.
	Bored pile (5 numbers) @ CH1314. Prod. Rate: 10d/pile/rig.	50 days	50 days	IVA	IVA	March 21, 2020	May 25, 2020	April 2, 2020	June 5, 2020	0% 0 da	ys 1 day	ys 10 days	The state of the s
	Pile Testing (14d curing & 14 test)	28 days	28 days	NA	NA	May 26, 2020	June 27, 2020	June 6, 2020	July 10, 2020	0% 0 da	ys 1 day	ys 10 days	Pile Testing (14d curing 8.14 test)
	Proof-drilling Works	7 days	· ·	NA	NA	May 26, 2020	June 1, 2020	July 4, 2020	July 10, 2020		ays 0 day		AProof-drilling Works
	Pile Loading Test	14 days	- '	NA	NA	June 28, 2020	July 11, 2020	July 11, 2020	July 24, 2020	0% 1 da			File Loading Test
-	Pile Cap @ CH1314	37 days		NA NA	NA NA	July 13, 2020	August 24, 2020	July 25, 2020	September 5, 2020			11 days	Pile Cap @ CH1314
	• -										•		Drive sheetpile (- 75m). Prod. Rate: 10m/day/side/team
	Drive sheetpile (~75m). Prod. Rate: 10m/day/side/team	8 days	8 days	NA	NA	July 13, 2020	July 21, 2020	July 25, 2020	August 3, 2020	0% 0 da	ys 0 day	ys 11 days	Dive sirecupile (7/3m), Flour Rate: 10m/day/side/team
1		6 days	6 days	NA	NA	July 22, 2020	July 28, 2020	August 4, 2020	August 10, 2020	0% 0 da	ys 0 day	ys 11 days	Excavation ~888.81m3 & lateral support. Prod. Rate: 160m3/day/team
5	160m3/day/team	,-	,-			,,,		., 2020		0 46	,	,	
									·				
	ogramme- Critical Task			anual Task	Duration-	only	Baseline Milestone <	> Sumr	mary	External	asks		ive Milestone ♦ Baseline Summary
018/0	ogramme- 1 with Progress Critical Split Split Split of 22-Sep-19 Critical Progress Task Prog			anual Task art-only	Duration- Baseline	only	Baseline Milestone Milestone		mary ual Summary		asks Milestone ♦		ive Milestone Baseline Summary We Summary line

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Task N	Name	Duration	Remaining Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Fr % SI		Fime Risk Total Allowances Slack 2019	2020 2021 2022 2023
										Complete	(TRA) H1	1 H2 H1 H2 H1 H2 H1 H2 H1 H2
6	Blinding layer	1 day	1 day	NA	NA	July 29, 2020	July 29, 2020	August 11, 2020	August 11, 2020			days 11 days	Sun September 22 Blinding layer Pilecap structure
7	Pilecap structure	14 days	14 days	NA	NA	July 30, 2020	August 14, 2020	August 12, 2020	,		•	l days 11 days	Backfill and extract sheet pile
3	Backfill and extract sheet pile	8 days	8 days	NA NA	NA NA	August 15, 2020	August 24, 2020	August 21, 2020	September 5, 2020		days 1		Agree Interface Coordination Plan with CKP-KTW (HY/2014/07)
9	Agree Interface Coordination Plan with CKP-KTW (HY/2014/07)	14 days	14 days	INA	INA	May 6, 2020	May 21, 2020	August 21, 2020	September 5, 2020	0% /5	days 0	0 days 90 days	V 1950 - 110 100 - 250 11 11 11 11 11 11 11 11 11 11 11 11 11
0	Allow access to CKR-KTW contractor for sheet pile wall	63 days	63 days	NA	NA	August 25, 2020	November 9, 2020	September 7, 2020	November 21, 2020	0% 0	days 3	3 days 11 days	Allow access to CKR-KTW contractor for sheet pile wall installation. F
_	installation. PS App.1.18 2.7(A)(c)	40 -1	40 -1			Navarah - 140, 2020	2 1 0 2024	N b 22, 2020	1	00/	da 3	National Advantage	Pier @ CH1314
1	Pier @ CH1314 Pre-drilling Works	49 days	49 days	NA NA	NA NA	November 10, 2020 August 5, 2020	August 16, 2020	November 23, 2020 August 23, 2020	January 21, 2021 September 3, 2020		-	2 days 11 days L days 18 days	Pre-drilling Works
13	Bore pile (3 numbers) @ CH1351. Prod. Rate: 12d/pile/rig	12 days	12 days 36 days	NA NA	NA NA	- '	,	0 September 4, 2020			days 1 days 1		Bore pile (3 numbers) @ CH1351. Prod. Rate: 12d/pile/rig
14	Pile Testing (14d curing & 14 test)	28 days	28 days	NA	NA NA	,	0 November 2, 2020	· · · · · ·	February 3, 2021			0.5 days 77 days	Pile Testing (14d curing & 14 test)
15	Proof-drilling Works	7 days	7 days	NA	NA	September 27, 2020		January 28, 2021	February 3, 2021		days 0	· · · · · · · · · · · · · · · · · · ·	Proof-drilling Works
16	Pile Loading Test	14 days	14 days	NA	NA		November 16, 202		February 17, 2021) days 93 days	Pile Loading Test
17	Pile Cap @ CH1351	36 days	36 days	NA	NA			0 February 18, 2021	March 31, 2021		days	74 days	Pile Cap @ CH 1351
18	Drive sheetpile (~75m). Prod. Rate:	8 days	8 days	NA	NA	November 17, 2020	November 25, 202	0 February 18, 2021	February 26, 2021	0% 0	days 0	days 74 days	Chrive shee <mark>tpile (~75m)</mark> . Prod. Rate: 10m/day/side/team
	10m/day/side/team							- 1 - 27 2004		001			# 5
19	Excavation ~755m3 & lateral support. Prod. Rate: 160m3/day/team	5 days	5 days	NA	NA	November 26, 2020	December 1, 2020	February 27, 2021	March 4, 2021	0% 0	days 0	days 74 days	Excavation ~755m3 & lateral support. Prod. Rate: 160m3/day/team
0	Blinding layer	1 day	1 day	NA	NA	December 2, 2020	December 2, 2020	March 5, 2021	March 5, 2021	0% 0	days 0) days 74 days	Blinding layer
1	Pile Cap structure	14 days	14 days	NA	NA	December 3, 2020	December 18, 2020	0 March 6, 2021	March 22, 2021	0% 0	days 0) days 74 days	Pile Cap structure
2	Backfill and extract sheet pile	8 days	8 days	NA	NA	December 19, 2020	December 30, 2020	March 23, 2021	March 31, 2021	0% 7	days 0	days 74 days	ਡ B ackfill an <mark>d extract sheet</mark> pile
3	Pier @ CH1351	48 days	48 days	NA	NA	January 9, 2021	March 9, 2021	April 1, 2021	June 1, 2021	0% 0	days 0	0.5 days 67 days	Pier @ CH13 <mark>5</mark> 1
54	Bridge deck between CH1314-1351	64 days	64 days	NA	NA	March 10, 2021	May 28, 2021	June 2, 2021	,	0% 67	days 1		Bridge deck between CH1314-1351
55	Falsework erection	7 days	7 days	NA	NA	March 10, 2021	March 17, 2021	June 2, 2021	June 9, 2021	0% 0	days 0	days 67 days	Fallework erection
66	Structure deck	28 days	28 days	NA	NA	March 18, 2021	April 22, 2021	June 10, 2021	July 14, 2021		-	0.5 days 67 days	Structure deck
57	Prestressing	15 days	15 days	NA	NA	May 11, 2021	May 28, 2021	August 4, 2021	August 20, 2021		· -	days 70 days	Prestrissing
8	Median barrier, utility through, parapet	24 days	24 days	NA	NA	May 29, 2021	June 26, 2021	August 26, 2021	September 23, 202		-	0.5 days 74 days	Median barrier, utility through, parapet
59	Utility ducting laying (by others)	14 days	14 days	NA	NA	June 28, 2021	July 14, 2021	October 7, 2021	October 23, 2021		L days 0		Utility ducting laying (by others)
50	Street furniture	21 days	21 days	NA NA	NA NA	June 28, 2021	July 22, 2021		October 20, 2021		days 0		Fart 1 - CH1372 to CH1386
51 52	Part 1 - CH1372 to CH1386 Bridge deck between CH1351-1386	102 days 64 days	102 days 64 days	NA NA	NA NA	July 7, 2021 July 7, 2021	November 5, 2021 September 19, 20.		November 9, 2021 September 20, 20		days days	0 days 0 days	Bridge deck between CH1351-1386
53	Falsework erection	7 days	7 days	NA	NA NA	July 7, 2021	July 14, 2021	July 7, 2021	July 14, 2021			0 days 0 days	Fa sework erection
54	Structure deck	28 days	28 days	NA	NA NA	July 15, 2021	August 16, 2021	July 15, 2021	August 16, 2021		-	L days 0 days	Structure deck
55	Prestressing	15 days	15 days	NA	NA			1 September 2, 2021			-	L days 0 days	Prestressing
56	Median barrier, utility through, parapet	24 days	24 days	NA	NA			September 20, 2021			days 1		Median barrier, utility through, parapet
57	Utility ducting laying (by others)	14 days	14 days	NA	NA	October 21, 2021	November 5, 2021	October 25, 2021	November 9, 2021	0% 0	days 1	L days 3 days	Utility ducting laying (by others)
58	Street furniture	14 days	14 days	NA	NA	October 21, 2021	November 5, 2021	October 21, 2021	November 5, 2021	0% 0	days 1	L days 0 days	Street furniture
59	Part 1 - CH1386 to CH1394 South Abutment	210 days	210 days	NA	NA	October 19, 2020	July 6, 2021	October 19, 2020	July 6, 2021	0% 0	days	0 days	Part 1 - CH1386 to CH1394 South Abutment
70	Pre-drilling Works	14 days	14 days	NA	NA	October 19, 2020	November 1, 2020	October 19, 2020	November 1, 2020	0% 0	days 1	L days 0 days	Pre-drilling W <mark>orks</mark>
1	Bored pile (8 numbers) @ CH1386. Prod. Rate:	96 days	96 days	NA	NA	November 2, 2020	February 27, 2021	November 2, 2020	February 27, 2021	0% 0	days 1	L days 0 days	Bored bile (8 numbers) @ CH1386 Prod. Rate: 12d/pile/rig.
'2	12d/pile/rig. Pile Testing	30 days	30 days	NA	NA	March 1, 2021	April 7, 2021	March 1, 2021	April 7, 2021	0% 0	days 1	L days 0 days	Pile Testing
3	Proof-drilling Works	7 days	7 days	NA	NA	February 28, 2021		April 1, 2021	April 7, 2021		days 0		Proof-arilling Works
4	Pile Loading Test	14 days	14 days	NA	NA	April 8, 2021	April 21, 2021	April 8, 2021	April 21, 2021		days 1		Pile Loading Test
· '5	Drive sheetpile (~900m) Prod. Rate: 10m/d/team	9 days	9 days	NA	NA	March 1, 2021	March 10, 2021	April 12, 2021	April 21, 2021		days 0	· · · · · · · · · · · · · · · · · · ·	Prive sheetbile (~900m) Prod. Rate: 10m/d/team
'6	Excavation ~1,344m3 & lateral support. Prod. Rate:	9 days	9 days	NA	NA	April 22, 2021	May 3, 2021	April 22, 2021	May 3, 2021	0% 0	days 1	L days 0 days	i Ekcavation ~1,344m3 & lateral support. Prod. Rate: 160m:
	160m3/day/team												
7	Blinding layer	1 day	1 day	NA	NA	May 4, 2021	May 4, 2021	May 4, 2021	May 4, 2021		-	0 days	Blinding layer
'8	Base Slab	12 days	12 days	NA	NA	May 5, 2021	May 19, 2021	May 5, 2021	May 20, 2021		-	0 days	II. Wall (3.85m thk). Prod. Rate: 18d/bay/team
79	Wall (3.85m thk). Prod. Rate: 18d/bay/team	18 days	18 days	NA	NA	May 20, 2021	June 9, 2021	May 20, 2021	June 9, 2021		days 1		K Wall (0.5m trik). Prod. Rate: 180/bay/team
30	Wall (0.5m thk) Install bridge bearing	14 days	14 days 7 days	NA NA	NA NA	June 10, 2021 June 28, 2021	June 27, 2021 July 6, 2021	June 10, 2021 June 28, 2021	June 28, 2021 July 6, 2021		days 1 days 0		Install bridge bearing
31 32	South Approach Ramp - CH1394-1444.7 - Total 8 bays (4	7 days 682 days	- '	NA NA	NA NA	October 21, 2019	February 7, 2022	August 11, 2020	March 1, 2022		days o	0 days 19 days	South Approach Ramp - CH1394-1444.7
02	bay/side)	ooz days	002 0075			0000001 21, 2015	1 CD1 dd1 y 7, 2022	August 11, 2020	17, 2022	22	uuys	13 days	
33	Ground Monitoring Works	14 days	14 days	NA	NA	October 21, 2019	November 3, 2019	August 11, 2020	August 24, 2020	0% 18	37 days 0	days 295 days	Ground Monitoring Works
4	Mobilization of plant and materials	10 days	10 days	NA	NA	May 9, 2020	May 20, 2020	August 25, 2020	September 4, 2020	0% 0 (days 0	days 90 days	Mobilization of plant and materials
5	Foundation Construction	90 days	90 days	NA	NA	May 21, 2020		September 5, 2020				L day 90 days	Foundation Construction
6	Drive sheetpile (~240m) Prod. Rate: 10m/d/team	24 days	24 days	NA	NA	September 5, 2020		December 23, 2020			days 0	0.5 days 90 days	Drive sheetpile (-240m) Frod. Rate: 10m/d/team
7	Excavation ~2,688m3 & lateral support. Prod. Rate: 160m3/day/team	18 days	18 days	NA	NA	October 6, 2020	October 27, 2020	January 23, 2021	February 16, 2021	0% 0	days 0	0 days 90 days	Excavation ~ 2 688m 3 32 lateral support. Prod. Rate: 160m3/day/team
38	Blinding layer. Prod. Rate: 2bays/day	4 days	4 days	NA	NA	October 28, 2020	October 31, 2020	February 17, 2021	February 20, 2021	0% 0	days 0) days 90 days	Blinding layer, Proc. Rate: 2bays/day
39	Base Slab Prod. Rate: 8d/bay/team	64 days	64 days	NA	NA	November 2, 2020	-	February 22, 2021			-	L day 90 days	Base Slab Prod. Rate: 8d/bay/team
0	Wall. Prod. Rate: 12d/bay/team	96 days	96 days	NA	NA	January 19, 2021	May 18, 2021	May 12, 2021	September 3, 2021			L day 90 days	Wall. Prod. Rate: 12d/bay/team
1	Backfilling ~4,765.89m3 within approach ramp to	30 days	30 days	NA	NA	May 20, 2021	June 24, 2021		October 11, 2021			0.5 days 90 days	Backfilling ~4,765.89m3 within approach ramp to form
_	formation level (160m3/day) considered time for SRT	24.1	24.1	N. A.		Name 1 2 22	December 2 222	Name I 6 222	Daniel Conn	00/	de.	L dave	
2	Placing of precast planting channel along approach ramp		24 days	NA	NA			November 6, 2021			•	L days 0 days	Placing of precast planting channel along app
93	Utility ducting laying (by others)	24 days	24 days	NA	NA NA			November 10, 2021			days 1		Utility ducting laying (by others) Construct pedestrian street/ footpath
94	Construct pedestrian street/ footpath Install central median	5 days	5 days	NA NA	NA NA			December 29, 2021			days 0		Construct pedestrian street/ rootpath
95 96	Concrete infill between profile barrier	5 days 5 days	5 days 5 days	NA NA	NA NA		December 15, 202		January 10, 2022 January 15, 2022		•	0 days 19 days 19 days	Concrete infill between profile barrier
70	Concrete mini between prome barrier	J udys	o udys	INA	INA	December 16, 2021	December 21, 202	i panuary 11, 2022	January 15, 2022	U/0 U (days 0	days 19 days	Supercon prome danier
Revised Pr	9		М	anual Task	Duration	-only	Baseline Milestone	♦ Sum	nmary	Externa	al Tasks	Inactive Mi	filestone 🔷 Baseline Summary
ED/2018/0	1 with Progress Critical Split Split		St.	art-only [Baseline		Milestone	♦ Mar	nual Summary	Externa	al Milestone	e 🔷 Inactive Su	ummary
	of 22-Sep-19 Critical Progress Task Prog			nish-only	Baseline :					Inactiv		Deadline	•

Ta	ask Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical	Free	Time Risk	Total	
			Duration							%	Slack	Allowance	es Slack 2019	2020 2021 2022 2023 2
7	Lay sub base	4 days	4 days	NA	NA	December 22, 2021	December 28, 2021	1 January 17 2022	January 20, 2022	Complete 0%	0 days	(TRA) 0 days	19 days	H2 H1 H2
3	Road pavement	7 days		NA	NA	December 29, 2021		January 21, 2022	January 28, 2022			0 days	19 days	Road pavement
)	Install railing on top of retaining wall	24 days	- '	NA	NA	January 7, 2022	February 7, 2022	January 29, 2022	March 1, 2022			0.5 days	19 days	Install railing on top of retaining wall
)	Part 1 - Road D3 CH1444.7-1560	69 days	69 days	NA	NA	December 4, 2021	March 1, 2022	December 4, 2021	March 1, 2022	0%	0 days		0 days	Part 1 - Road D3 CH1444.7-1560
1	Trim road formation	3 days	3 days	NA	NA	December 4, 2021	December 7, 2021	December 4, 2021	December 7, 2021	0%	0 days	0 days	0 days	Trim road formation
2	Utility ducting laying (by others)	14 days		NA	NA	December 8, 2021	December 23, 2021	1 December 8, 2021	December 23, 202	1 0%	0 days	1 days	0 days	Utility ducting laying (by others)
3	Lay sub base	12 days		NA	NA	December 24, 2021	, .	December 24, 2021	January 10, 2022			0 days	0 days	Lay sub base
4	Lay kerb	7 days	- '	NA NA	NA NA	January 11, 2022	January 18, 2022	January 11, 2022	January 18, 2022			0 days	0 days	Lay kerb Construct pedestrian street/ fpotpath
5 6	Construct pedestrian street/ footpath Install central median	10 days 7 days	, .	NA NA	NA NA	January 19, 2022 January 31, 2022	January 30, 2022 February 10, 2022	January 19, 2022 January 31, 2022	January 31, 2022 February 10, 2022		0 days 0 days	0 days	0 days	Install central median
17	Concrete infill between profile barrier	5 days		NA	NA	February 11, 2022	February 16, 2022		February 16, 2022			0 days	0 days	Concrete infill between profile barrier
18	Road pavement	5 days		NA	NA			February 17, 2022	February 22, 2022			0 days	0 days	Road pavement
)9	Install street furniture	6 days	6 days	NA	NA	February 23, 2022	March 1, 2022	February 23, 2022	March 1, 2022	0%	0 days	0 days	0 days	Install street furniture
.0	Underpass and Depressed Road	739 days	733.65 days	September 3, 2019	9 NA	September 3, 2019	March 1, 2022	September 3, 2019	May 29, 2024	0%	668 days		668 days	Underpass and Depressed Road
.1	North Depressed Rd (CH1560-1720) - 8 bays	413 days		September 3, 2019		September 3, 2019		September 3, 2019	March 1, 2022	0%	326 days		326 days	North Depressed Rd (CH1560-1720) - 8 bays
2	Ground Monitoring Works	17 days				19 September 3, 2019		<u> </u>	September 19, 201		0 days		0 days	Ground Monitoring Works
3	Mobilization Complete the Diveration of Existing Overhang Cable	7 days		NA NA	NA NA	October 8, 2019 October 15, 2019	October 15, 2019 October 15, 2019	June 15, 2020 June 23, 2020	June 22, 2020 June 23, 2020			0 days	203 days	Mobilization Complete the Diveration of Existing Overhans Cable along the North Depressed Rd
.4	along the North Depressed Rd	0 days	0 udys	IVA	IVA	October 15, 2019	October 15, 2019	Julie 23, 2020	Julie 23, 2020	076	1 day		252 days	The state of the s
L5	Drive Sheet Pile (380m) Prod. Rate 10m/team/day	38 days	38 days	NA		October 16, 2019	November 28, 2019	9 June 23, 2020	August 7, 2020	0%	0 days	1 days	203 days	Drive Sheet Pile (380m) Prod. Rate 10m/team/day
6	Pumping Test	21 days		NA	NA	November 29, 2019			September 1, 2020		0 days		203 days	Pumping Test
7	CH1560 - CH1640	264 days		NA	NA		· · · · · · · · · · · · · · · · · · ·	0 September 2, 2020	December 16, 202		203 days		203 days	CH1560 - CH1640
8	Excavation - Prod Rate: 240m3/d/team. (~26,663m3). 1 team	112 days	112 days	NA	NA	December 24, 2019	ıvıay 15, 2020	September 2, 2020	January 16, 2021	U% (0 days	T gays	203 days	Excavation - Prod Rate: 240m3/c/team. (~26,663m3). 1 team
9	Rock fill - Prod. Rate: 160m3/d/team (1,807m3)	12 days	12 days	NA	NA	May 14, 2020	May 27, 2020	January 15, 2021	January 28, 2021	0%	0 days	1 days	203 days	Rock fill - Prod. Rate: 1(ii)m3/d/team (1,807m3)
0	Blinding	1 day	1 day	NA	NA	May 28, 2020	May 28, 2020	January 29, 2021	January 29, 2021	0%	0 days	0 days	203 days	Blinding
1	Base Slab - 4 bays. Prod. Rate: 14d/team/bay include	56 days	56 days	NA	NA	May 29, 2020	August 4, 2020	January 30, 2021	April 12, 2021	0%	0 days	3 days	203 days	Base Slab + 4 bays: Proc. Rate: 14d/team/bay include pipe laying. 1 team
2	pipe laying. 1 team Wall - 4 bays. Prod. Rate: 14d/bay/team. 1 team	56 days	56 days	NA	NA	July 3, 2020	September 5, 2020	June 26, 2021	August 31, 2021	0%	0 days	3 days	292 days	Wall - 4 bays. Prod. Rate: 14d/bay/team. 1 team
3	Emergency walkway & median barrier installation	18 days	- '	NA	NA	September 7, 2020	· ·		November 1, 2021		0 days		324 days	Emergency walkway & median barrier installation
1	Utility ducting laying (by others)	10 days	10 days	NA	NA	September 28, 2020	October 10, 2020	November 2, 2021	November 12, 202	1 0%	0 days	0 days	324 days	Utility ducting laying (by others)
5	Pavement work	5 days	5 days	NA	NA	October 12, 2020	October 16, 2020	November 13, 2021	November 18, 202	1 0%	0 days	0 days	324 days	Ravement work
6	Parapet installation	24 days	- '	NA	NA	October 17, 2020		0 November 19, 2021				0.5 days	324 days	Rarapet installation
7	CH1640 - CH1720	208 days		NA	NA	May 16, 2020	January 22, 2021	January 18, 2021	March 1, 2022		203 days		203 days	CH1640 - CH1721 Excavation - Proc Raile: 240 in 3/d/team. 1 team (10,926 m3) (Remaining)
8	Excavation - Prod Rate: 240m3/d/team. 1 team (10,926m3) (Remaining)	46 days	46 days	NA	NA	May 16, 2020	July 10, 2020	January 18, 2021	March 15, 2021	0%	0 days	1 days	203 days	Excavation - Proc Ivalie: 245/13/d/team. 1 team (10,526/13) (Remaining)
29	Rock fill - Prod. Rate: 160m3/d/team (2,203m3)	20 days	20 days	NA	NA	July 11, 2020	August 3, 2020	March 16, 2021	April 10, 2021	0%	0 days	1 days	203 days	Rock fill - Prod. Rate: 160m3/d/team (2,203m3)
0	Blinding	1 day	1 day	NA	NA	August 4, 2020	August 4, 2020	April 12, 2021	April 12, 2021	0%	0 days	0 days	203 days	Blinding
1	Base Slab - 4 bays . Prod. Rate: 14d/team/bay include	56 days	56 days	NA	NA	August 5, 2020	October 10, 2020	April 13, 2021	June 19, 2021	0%	0 days	2 days	203 days	Base Slab - 4 bays . Prod. Rate: 14d/team/bay include pipe laying. 1 tear
2	pipe laying. 1 team Wall - 4 bays. Prod. Rate: 14d/bay/team. 1 team	56 days	56 days	NA	NA	September 7, 2020	November 13, 2020	0 September 1, 2021	November 8, 2021	0%	0 days	2 days	292 days	Wall - 4 bays Prod. Rete: 14d/bay/team. 1 team
3	Backfill & extract sheet pile (CH1560 to CH1720)	12 days	12 days	NA	NA	November 14, 2020	November 27, 2020	0 December 3, 2021	December 16, 202	1 0%	21 days	1 day	313 days	K-Backfill & extract sheet pile (CH1560 to CH1720)
4	Access Allow for EMSD Third District Cooling System	0 days	0 days	NA	NA	November 27, 2020	November 27, 2020	0 March 1, 2022	March 1, 2022	0%	459 days		459 days	Access Allow for EMSD Third District Cooling System Constractor for
5	Constractor for CH1560-CH1720 Pipe Laying Emergency walkway & median barrier installation	18 days	18 days	NA	NA	November 14, 2020	December 4 2020	November 9, 2021	November 29, 202	1 0%	0 days	0 days	292 days	Emergency walkway & median barrier installation
6	Utility ducting laying (by others)	10 days		NA	NA		· · · · · · · · · · · · · · · · · · ·	November 30, 2021			0 days		292 days	Utility ducting laying (by others)
7	Pavement work	5 days		NA	NA	December 17, 2020	December 22, 2020	December 11, 2021	December 16, 202		0 days		292 days	, 🛪 Pavement world
8	Parapet installation	24 days	24 days	NA	NA	December 23, 2020	January 22, 2021	December 17, 2021	January 17, 2022	0%	243 days	0.5 days	292 days	Parapet-installation
9	Underpass (CH1720-1850) - 7 bays	635 days	635 days	NA	NA	September 23, 20	November 11, 202	1 March 19, 2020	May 29, 2024	0%	145 days		145 days	Underpass (CH1720-1850) - 7 bays
0	Ground Monitoring Works	14 days		NA	NA	September 23, 2019		March 19, 2020	April 1, 2020		0 days		178 days	Ground Monitoring Works
1	Drive sheet pile (330m) Prod. Rate 10m/team/day	33 days	, .	NA	NA	November 29, 2019		September 26, 2020			212 days		245 days	Drive sheet pile (330m) Prod. Rate 10 m/team/day
2	Pumping Test CH1720 - CH1800	21 days	- '	NA NA	NA NA	September 26, 2020			December 1, 2020 May 29, 2024		0 days 53 days	1 uays	33 days	Pumping Test CH1720 - CH1800
3	Excavation - Prod Rate: 240m3/d/team. 1 team	255 days 114 days	, .	NA NA	NA NA	September 28, 20 October 23, 2020	March 12, 2021	December 2, 2020 December 2, 2020	April 23, 2021		0 days	5 days	53 days 33 days	Excavation - Prod Rate: 240m3/d/team. 1 team (27,220m3)
	(27,220m3)									,	,5	,5		
5	Rock fill - Prod. Rate: 160m3/d/team (1,944m3)	13 days	, ,	NA	NA	March 3, 2021	March 17, 2021	June 3, 2021	June 18, 2021			0 days	74 days	Rock fill - Frod. Rate: 160m3/d/team (1,944m3)
6	Blinding	1 day		NA	NA	March 18, 2021	March 18, 2021	June 19, 2021	June 19, 2021			0 days	74 days	Blinding Base Sab - 4 bays. Prod. Rate: 14d/team/bay include pipe
7	Base Slab - 4 bays. Prod. Rate: 14d/team/bay include pipe laying. 1 team	ob days	56 days	NA	NA	March 19, 2021	May 28, 2021	June 21, 2021	August 25, 2021	U%	0 days	1 day	74 days	include pipe
3	Wall - 4 bays. Prod. Rate: 14d/bay/team. 1 team	56 days	56 days	NA	NA	April 24, 2021	July 2, 2021	August 12, 2021	October 19, 2021	0%	0 days	1 day	90 days	Wall - 4 bays. Prod. Rate: 14d/bay/team. 1 team
9	Top Slab - 4 bays. Prod. Rate: 10d/bay/team. 1 team	40 days	40 days	NA	NA	May 29, 2021	July 16, 2021	September 14, 2021		0%	41 days	0.5 days	90 days	Top Slab - 4 bays. Prod. Rate: 10d/bay/team. 1 team
0	Emergency walkway & median barrier installation	18 days	, ,	NA	NA	July 20, 2021	August 9, 2021	May 8, 2024	May 29, 2024		834 days		834 days	Emergency walkway & median barrier installation
L	Utility ducting laying (by others)	10 days	, ,	NA	NA	September 28, 2020		November 2, 2021	November 12, 202		0 days		324 days	Utility ducting laying (by others)
2	Pavement work CH1800 - CH1850	5 days		NA NA	NA NA	October 12, 2020 March 13, 2021	October 16, 2020 November 11, 202	December 2, 2021	December 7, 2021 March 1, 2022		291 days	o days	340 days 33 days	CH1800 - CH1850
3	Excavation - Prod. Rate: 240m3/d/team. 1 team	199 days 82 days		NA NA	NA NA	March 13, 2021 March 13, 2021	June 23, 2021	April 24, 2021 April 24, 2021	August 2, 2021		33 days 0 days	1 days	33 days	Excavation - Prod. Rate: 240m3/d/team. 1 team (19,656)
	(19,656m3)		,								•			
5	Rock fill - Prod. Rate: 160m3/d/team (1,525m3)	10 days	, .	NA	NA	June 16, 2021	June 26, 2021	July 26, 2021	August 5, 2021			1 days	33 days	Rock fill - Prod. Rate: 160m3/d/team (1,525m3)
6	Blinding	1 day	1 day	NA	NA	June 28, 2021	June 28, 2021	August 6, 2021	August 6, 2021	0%	0 days	0 days	33 days	
Revise	ed Programme- Critical Task	_	Ma	anual Task	Duration-	-only	Baseline Milestone	♦ Sum	mary	Exte	rnal Tasks		Inactive Mile	lestone ♦ Baseline Summary
ED/20	18/01 with Progress Critical Split S		Sta	art-only [Baseline		Milestone	♦ Man	ual Summary	Exte	rnal Milesto	one ♦	Inactive Sum	mmary

Task N	Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	vised Programme with Late Start	Late Finish	Physical	1	Time Risk	Total											
			Duration							%	Slack	Allowance	es Slack 2019	1	202		112	2021	115	2022		2023		202
'	Base Slab - 3 bays. Prod. Rate: 14d/team/bay include	42 days	42 days	NA	NA	June 29, 2021	August 17, 2021	August 26, 2021	October 16, 2021	Complete 0%	0 days	(TRA) 2 days	49 days	1 H Sun Septe	mber 22	H1	H2	H1	H2	se Slab - F	11 bays. Pro	H2 H1 I Rate: 14d/te	eam/bay	include pi
	pipe laying. 1 team																							*****
		42 days	,.	NA	NA	August 2, 2021		1 September 29, 2021			- '	1 days	49 days								T	late: 14d/bay/		
		30 days	30 days	NA	NA NA	September 3, 2021	· ·	November 3, 2021	December 7, 2021		- '	1 days	49 days							TT 1	-	rod. Rate: 10d heet pile (CHI	11111	
	Backfill & extract sheet pile (CH1720 to CH1850) Access Allow for EMSD Third District Cooling System	12 days	12 days 0 days	NA NA	NA NA		October 25, 2021 October 25, 2021	December 8, 2021	December 21, 2021 March 1, 2022	0%	0 days 127 days	0 days	49 days 127 days								1 111 1	MSD Third Di	1111	
	Constractor for CH1720-CH1850 Pipe Laying	o days	o days	IVA	140	October 23, 2021	October 23, 2021	Widi Cii 1, 2022	Widi Cii 1, 2022	070	127 days		127 days								1			Jg 2,5
	Utility ducting laying (by others)	10 days	10 days	NA	NA	October 26, 2021	November 5, 2021	December 22, 2021	January 5, 2022	0%	0 days	1 day	49 days									ing (by others	s)	
	Pavement work	5 days	5 days	NA	NA	November 6, 2021	November 11, 2021	January 6, 2022	January 11, 2022	0%	0 days	1 day	49 days							Pavem	ent w <mark>ork</mark>			
l l	Underpass & South Depressed Road CH1850-2000 - 7 bays	650 days	650 days	NA	NA	October 7, 2019	December 11, 2021	April 2, 2020	February 14, 2022	0%	49 days		49 days							Und	erpass & Sc	outh Depresse	ed Road (CH1850-2
	Ground Monitoring Works	14 days	14 days	NA	NA	October 7, 2019	October 20, 2019	April 2, 2020	April 15, 2020	0%	0 days	0 days	178 days	-			ring Wo							
	<u> </u>	15 days		NA	NA	January 29, 2020	February 14, 2020	April 16, 2020			35 days		63 days			Mobiliz			materials					
		90 days	90 days	NA	NA	March 27, 2020	July 18, 2020	May 6, 2020	,		0 days		28 days						truction					
		6 days	6 days	NA	NA	July 15, 2020	July 21, 2020	August 17, 2020		0%	0 days		28 days				11 11 1		1		sheet pile)			
9	Drive sheet pile (360m) Prod. Rate 10m/team/day	36 days	36 days	NA	NA	July 22, 2020	September 1, 2020	August 24, 2020	October 6, 2020	0%	0 days	0.5 days	28 days				Driv	e sneet p	i€ (sbum,	Prod. Hat	te 10m/tear	п/фау		
)	Pumping Test	21 days	21 days	NA	NA	September 2, 2020	September 25, 2020	October 7, 2020	October 31, 2020	0%	0 days	0 days	28 days				≱ Pui	mping Te	st					
L		349 days	349 days	NA	NA			November 2, 2020	January 28, 2022	0%	28 days	,	28 days							CHIE	350 - CH192	.0		
2	Excavation - Prod. Rate: 240m3/d/team. 1 team	96 days	96 days	NA	NA	September 26, 2020	January 22, 2021	November 2, 2020	February 27, 2021	0%	0 days	1 day	28 days					Exca	ration - Pr	oc Rate:	240m <mark>3/d/t</mark>	eam. 1 team ((23,154m	ı 3)
	(23,154m3)																			.				
3		11 days	11 days	NA	NA	January 16, 2021	January 28, 2021	February 22, 2021	March 5, 2021		- '	0 days	28 days							. Rate: 16	0m3/d/tear	m (1,745m3)		
1	-	1 day	1 day	NA	NA	January 29, 2021	January 29, 2021	March 6, 2021	March 6, 2021			0 days	28 days					Blin		الل الله		4 4 4 4		mime le .
5	Base Slab - 3 bays. Prod. Rate: 14d/team/bay include	42 days	42 days	NA	NA	January 30, 2021	March 23, 2021	March 8, 2021	April 28, 2021	0%	0 days	0.5 days	28 days						ase slab	s pays. Pr	oa. Rate: 1	4d/team/bay	include p	ipe layin
5	pipe laying. 1 team Wall - 3 bays. Prod. Rate: 14d/bay/team. 1 team	42 days	42 days	NA	NA	March 8, 2021	April 28, 2021	September 29. 2021	November 18, 2021	0%	0 days	0.5 days	168 days						Wall - 3	Prod	Rate: 14d	/bay/team. 1	team	
	,	,	,			-, ,	,				.,-	1-	, , .											
7	Top Slab - 3 bays. Prod. Rate: 10d/bay/team. 1 team	30 days	30 days	NA	NA	April 13, 2021	May 18, 2021	November 3, 2021	December 7, 2021	0%	0 days	0.5 days	168 days					│ <mark>│</mark> ║╫ ┾ ■	Top Sa	J B bays.	Prod. Rate	: 10d/bay/tea	am. 1 tea	m
,	Emergency walkway 9, median harries installation	18 daye	19 days	NΑ	NA	lune E 2021	lune 26, 2021	December 24, 2024	January 17, 2022	0%	110 do	0 days	168 days								kway & m	dian barrier in	installatio	on
3	Emergency walkway & median barrier installation	18 days	18 days	NA	NA	June 5, 2021	June 26, 2021	December 24, 2021	January 17, 2022	U76	119 days	o uays	168 days							TILLY WAIT	way & me	Jan Janier II		
9	Utility ducting laying (by others)	10 days	10 days	NA	NA	September 28, 2020	October 10, 2020	November 2, 2021	November 12, 2021	L 0%	0 days	0 days	324 days				* u	tility duct	ing laying	(ky other:	5)			
)	Pavement work	5 days	5 days	NA	NA	November 12, 2021	November 17, 2021	January 12, 2022	January 17, 2022	0%	0 days	0 days	49 days							Paven	nent work			
	Parapet installation	10 days	10 days	NA	NA	November 18, 2021	November 29, 2021	January 18, 2022	January 28, 2022	0%	0 days	0 days	49 days							Parap	et in <mark>s</mark> tallati	on		
	CH1920 - CH2000	359 days	359 days	NA	NA	September 28, 20	December 11, 2021	April 14, 2021	February 14, 2022	0%	49 days		49 days				-	-		Chil	920 - CH20	30		
	Excavation - Prod. Rate: 240m3/d/team. 1 team	68 days	68 days	NA	NA	January 23, 2021	April 19, 2021	April 14, 2021	July 6, 2021	0%	0 days	1 day	63 days					****	Excavatio	n - Prod. F	Rate: 240m	3/d/team. 1 te	tearn (16,	396m3)
	(16,396m3)									00/	0.1	0.1	50.1											
	-	1 day	1 day	NA	NA	April 20, 2021	April 20, 2021	July 7, 2021	July 7, 2021	0%		0 days	63 days						Billioning Bases &	المام	r Drod Da	te: 14d/team/	/how inch	udo nino
5	Base Slab - 4 bays. Prod. Rate: 14d/team/bay include pipe laying. 1 team	56 days	56 days	NA	NA	March 24, 2021	June 2, 2021	April 29, 2021	July 7, 2021	0%	0 days	1 day	28 days						a case 3	зи т 4 бау	S. FIUU. Na	e. 14u/ team/	, Day IIICIC	ide bibe
5		56 days	56 days	NA	NA	April 13, 2021	June 19, 2021	July 10, 2021	September 13, 202	1 0%	0 days	1 day	72 days						wall •	4 bays. P	rod. Rate: 1	.4d/bay/team	n. I team	
																								•
7	· · · · · · · · · · · · · · · · · · ·	18 days	, .	NA	NA	June 21, 2021	July 12, 2021	September 14, 2021	·	0%	0 days		72 days									ile (CH1850 to		
3	Emergency walkway & median barrier installation	18 days	18 days	NA	NA	June 21, 2021	July 12, 2021	January 8, 2022	January 28, 2022	0%	117 days	0 days	166 days						Emic	gency wa	ikway & m	edian barrier	installati	on
)	Utility ducting laying (by others)	10 days	10 days	NA	NA	September 28, 2020	October 10, 2020	November 2, 2021	November 12, 2021	0%	0 days	0 days	324 days				_ ¥ U1	tility duct	ing laying	(by other	s)			
)	Pavement work	5 days	5 days	NA	NA	October 12, 2020	October 16, 2020	January 24, 2022	January 28, 2022	0%	333 days	0 days	382 days				¥ P;	avement	work,					
L	Parapet installation	11 days	11 days	NA	NA	November 30, 2021	December 11, 2021	January 29, 2022	February 14, 2022	0%	21 days	0 days	49 days							Parar	pet in <mark>stal</mark> lat	ion		
2	South Depressed Road CH2000-2060 - 3 bays	671 days	671 days	NA	NA	October 21, 2019	January 21, 2022	May 30, 2020	February 26, 2022	0%	28 days		28 days							Sr	outh Depre	ssed Road CH	12000-200	60 - 3 bay
	Ground Monitoring Works	14 days	14 days	NA	NA	October 21, 2019	November 3, 2019	May 30, 2020	June 12, 2020	0%	211 days	0 days	222 days	-	Groun	n <mark>d M</mark> oni	oring Wo	orks						
	Mobilization of plant and materials	12 days	12 days	NA	NA	June 2, 2020	June 15, 2020	June 13, 2020	June 27, 2020	0%	0 days	0 days	10 days				Mobilizat	tion of pl	nt and m	aterials				
	Foundation Construction	90 days	90 days	NA	NA	June 16, 2020	September 30, 2020	December 18, 2020	April 12, 2021	0%	72 days	0.5 days	154 days				Fo	undation	Construct	ion				
i	Mobilization of plant and material (sheet pile)	5 days	5 days	NA	NA	December 30, 2020	January 5, 2021	April 13, 2021	April 17, 2021	0%	0 days	0 days	82 days					TO 11111			material (s			
7	Drive sheet pile (180m) Prod. Rate 10m/team/day	18 days	18 days	NA	NA	January 6, 2021	January 26, 2021	April 19, 2021	May 10, 2021	0%	0 days	0 days	82 days					E Driv	sheet pil	≟ (180m) ľ	Prod. Rate	10m/team/da	зу	
3	Pumping Test	21 days	21 days	NA	NA	January 27, 2021	February 23, 2021	May 11, 2021	June 4, 2021	0%	0 days	0 days	82 days					Pu	mpi ng Tes	4				
9		38 days	38 days	NA	NA	February 24, 2021	April 12, 2021	June 5, 2021	July 21, 2021	0%	0 days	0.5 days	82 days						Excavatio	ı Prod P	ate: 240m?	3/d/team. 1 te	ean (8,95	i6m3)
	(8,956m3)	1 day	1 day	NA	NA	April 12, 2021	April 12, 2021	July 22, 2024	July 22, 2024	0%	41 da	0 days	92 days						Blinding					
)	-	1 day	1 day	NA NA	NA NA	April 13, 2021	April 13, 2021	July 22, 2021	July 22, 2021		41 days	•	82 days			$\ \ \ $			1	a Hilah	bays Dro	Rate: 14d/tea	am/bay i-	nclude ni
<u> </u>	Base Slab - 3 bays. Prod. Rate: 14d/team/bay include pipe laying. 1 team	→U udys	40 days	IVA	INA	June 3, 2021	July 21, 2021	July 23, 2021	September 7, 2021	0/0	0 days	0.5 days	41 days						Jess Jess		104.	J.C. I-Tu/ tea		.s.uue pi
2	, 0	42 days	42 days	NA	NA	June 21, 2021	August 9, 2021	November 24, 2021	January 14, 2022	0%	0 days	0.5 days	130 days						 	ıII - 3 bayı	. Prod. Rat	e: 14d/bay/te	eam. 1 tea	am
	Backfill & extract sheet pile	12 days	12 days	NA	NA	August 10, 2021	August 23, 2021	January 28, 2022	February 14, 2022	0%	113 days	0 days	141 days						 		xtract sheet	IIT I		
	Emergency walkway & median barrier installation	18 days	18 days	NA	NA	August 10, 2021	August 30, 2021	January 15, 2022	February 8, 2022	0%	102 days	0 days	130 days									median barri	rier instal	lation
	Utility ducting laying (by others)	10 days	10 days	NA	NA	September 28, 2020	October 10, 2020	November 2, 2021	November 12, 2021	0%	0 days	0 days	324 days				🚆 🌌 U1	tility duct	ing laying	(by other:	·			
	Pavement work	5 days	5 days	NA	NA	January 4, 2022	January 8, 2022	February 9, 2022	February 14, 2022		0 days	0 days	28 days								ement wor			
	·	11 days	11 days	NA	NA	January 10, 2022	January 21, 2022	February 15, 2022	February 26, 2022		27 days	0 days	28 days							71	rapet instal			
		208 days	- '	NA	NA	June 19, 2021		November 22, 2021			1 day		1 day									load D3 CH20	J60-2118.	.93
		50 days	50 days	NA	NA	June 19, 2021	August 17, 2021		January 21, 2022			0 days	129 days								ng laying (b	y others)		
		2 days	2 days	NA	NA	August 18, 2021	August 19, 2021	January 22, 2022	January 24, 2022		0 days		129 days							ird road fo				
L		4 days	4 days	NA	NA	August 20, 2021	August 24, 2021	January 25, 2022	January 28, 2022		0 days		129 days							ny sub base	e			
2	•	5 days	5 days	NA	NA	August 25, 2021	August 30, 2021	January 29, 2022	February 7, 2022			0 days	129 days							ay ikerb				
3		6 days	6 days	NA	NA	August 31, 2021	September 6, 2021		February 14, 2022			0 days	129 days								1 111 1	street/ footpa	atn	
1	Install central median	4 days	4 days	NA	NA	September 7, 2021	September 10, 202	1 February 15, 2022	February 18, 2022	0%	0 days	0 days	129 days		ЩЩ					ışıbii cenf	tral m <mark>edia</mark> n			
Revised Pro	ogramme- Critical Task		M	anual Task	Duration	only	Baseline Milestone	⇒ Sum	nmary	Ext	ternal Tasks		Inactive M	lilestone 🔷		Baselir	e Summary	L						
	1 with Progress Critical Split Split		Sta	art-only	Baseline		■ Milestone	♦ Man	nual Summary	Ext	ternal Milesto	one 🔷	Inactive Su	ummary		1	•							
	of 22-Sep-19 Critical Progress Task Progre					Split																		

Description	F		L .	1	I		_	ised Programme with		· ·		L									
Second	Task Name	Duration	3	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	'				2020		2021		2022	2023		2024
The parameter The paramete			Daration												1			H1	H2 H	1 H2	H1
20 Control	-		_ · ·											n September 22			Con			rrier	
Martin M																		11. 11			
10			· ·																	or Section 1	
10 10 10 10 10 10 10 10	-											Judys	· ·				Section 2		Jonation it		
Mathematical Math												1 day				Construction	of Frecast B	ox Culvert (a	t fabrication yar	d)	
Mathematical Math		200															mere consul	atau Intaka B	and College of (Drage		
Mary								, , ,					-			Part 2	in		ox Culvert (Preca	151)	
Mark		· ·							• '		-	1 days	-		T			n (33)			
Section Property Company Com													· ·		 	1. 11.11					
1				NA	NA					0%	-					Lowering	precast box	culvert (7 ce	lls)		
Description Part Section Part Section Sectio	726 Remove struts and backfilling	26 days	26 days	NA	NA	November 27, 2020	December 29, 2020	December 9, 2020	January 11, 2021	0%	0 days	1 days	10 days			놀 Remov	e struts and	ackfilling			
The State State State Stat	727 Part 1 - CHB.5-30 (25m)	117 days	117 days	NA	NA	December 30, 2020	May 25, 2021	January 12, 2021	June 1, 2021	0%	6 days		6 days					,)		
Control Cont													-								
Manus								, .				'	· ·			11			vort (8 colls)		
10 10 10 10 10 10 10 10			- '																		
100 100												'							TI I		
14 10 10 10 10 10 10 10																		ection 3			
Mathematical Control		291 days	291 days	NA	NA	June 16, 2020	June 8, 2021	June 20, 2020	May 29, 2024	0%	4 days		4 days					Lift LT3 & LT	4		
10 10 10 10 10 10 10 10		22 days	22 days	NA		June 16, 2020	July 13, 2020	June 20, 2020	July 17, 2020	0%	0 days	1 days	4 days					erials			
1.							· ·						<u> </u>		l l l						
Mary			- '					· · · · · · · · · · · · · · · · · · ·	· ·			'				Slab and sh		Notion			
The control of the			- '													l ife		11111 11			
Mile			-									J udys	-					1			
1.			/-																r Lift Inspection		
Testing A commission 2 Case 3 Case 1 Case				NA				· · · · · · · · · · · · · · · · · · ·								 	MSD Lift Insp	ection			
Companie	743 Issuance of Lift Use Permit	0 days	0 days	NA	NA	March 29, 2021	March 29, 2021	November 2, 2021	November 2, 2021	0%	213 days		218 days			\$ 1	ssuance of Li	ft Use Permit	:		
1.	744 Testing & commissioning	21 days	21 days	NA	NA	May 14, 2021	June 8, 2021	May 20, 2021	June 12, 2021	0%	0 days	1 days	4 days				🏬 Testing &	commissioni	ng		
Part Section		-	- '								0 days	1 days	4 days					h			
Act									· ·			'	<u> </u>					T			
## Part 4 Absolution of statistics 1.5 cm 1.												U days	· ·				•	lailleu Colli	Sietion for Section	Section 4 (Subject to
Fig. Setting		· ·							• •			9 days	-						•	Part 2E - Al	•
Section Sect			'									,-	-							Planned Co	mpletion
18.6 St.				NA	NA												Section	5			
March Sector Feature Sector S	Noise barrier fronting to 4B5 at Rd D3A & Bus Lay By ~120n	n 303 days	303 days	NA	NA	June 20, 2020	June 28, 2021	June 27, 2020	July 5, 2021	0%	5 days		5 days				Naise b	arrier fronting	g to 4B5 at Rd D	3A & Bus Lay B	/ ~120m
March Sector Feature Sector S	752 FLS & Excavation	33 days	33 days	NΔ	NΔ	lune 20, 2020	July 30, 2020	lune 27, 2020	August 5, 2020	0%	0 days	2 days	5 days		FLS	& Excavatio	n				
Female F																		on			
Paramed Completion for Section 5 Collago								- ·	· · · · · ·										ation (Night Wo	rk)	
Femoling (Sary) (8 Absorbing prection (19m/g) 91 days 91 day		0 days	0 days	NA	NA	June 28, 2021	June 28, 2021	July 5, 2021				0 days	-				ĕ Planned	Completion	for Section 5		
February 1.5 m/g February 1.5 m/g 1.	757 Section 6	1202 days	1198.4 days	May 16, 2019	NA	May 16, 2019	May 30, 2023	May 16, 2019	May 29, 2024	0%	297 days		297 days							Section 6	
Maximum Maxi	758 Fencing (15m/d) & Hoarding Erection (10m/d)	919 days	-		NA	October 8, 2019	November 8, 2022	November 9, 2019	May 29, 2024				28 days						Fencin/	g (15m/d) & H	arding Er
Ferring Part 2A (+458m) 4 team							· · · · · · · · · · · · · · · · · · ·														
Ferring - Part 28 (-132m)														Hoard			-458m)	am			
February 1, 2021 February 1,													-		THE STATE OF THE S	-					
Hoarding - Part 2C (**16m)			,													FI II II II					
Hoarding - Part 2 E (-37m)			,										-		Hoard	-	T				
Fencing - Part 3D (*29m) 2 days 2 days NA NA December 2, 2019 December 9, 2019 March 17, 2020 March 18, 2020 0% 40 days 0 days 80 days 95 day				NA	NA														Hoarding	- Part 2E (~37r	1)
Fencing - Part 3E (-23m) 2 days 2 days NA NA December 7, 2019 December 9, 2019 March 17, 2020 March 18, 2020 0% 70 days 0 days 80 days 95 days 70 days 0 days 95 days 80 days 80 days 95 days 95 days 80 days 95 days 80 days 95 days 80 days 95 days 95 days 80 days 95 days 80 days 95 days 80 days 95 days 95 days 80 days 95 days 95 days 80 days 95 days 80 days 95 days 80 days 95 days 95 days 95 days 80 days 95 days 95 days 95 days 80 days 95 days 95 days 95 days 95 days 80 days 95 days 80 days 95 days	766 Fencing - Part 3A (~326m)	22 days	22 days	NA	NA	October 14, 2022	November 8, 2022	February 7, 2023	March 3, 2023	0%	0 days	0.5 days	95 days						Fencinç	ı - Part 3A (~32	m)
Fencing - Part 3F (*62m) 5 days 5 days NA NA October 8, 2022 October 13, 2022 February 1, 2023 February 1, 2023 February 6, 2023 Office office - Part 3G (*69m) 5 days 5 days S days NA NA December 2, 2019 December 2, 2019 December 3, 2019 March 14, 2020 March 16, 2020 Office office - Part 3G (*19m) To pencing - Part 4 (*180m) 12 days 13 days 14 days 15			- '										,		TII III I	. .					
Fencing - Part 3G (~69m) 5 days 5 days NA NA December 2, 2019 December 3, 2019 December 3, 2019 March 11, 2020 March 16, 2020 March														Fenci	ng - Part 3E	(~23m)				Daret 25 (C2	
771 Fencing - Part 31 (*19m) 2 days 2 days NA NA NA December 2, 2019 December 3, 2019 March 14, 2020 March 16, 2020 0% 3 days 0 days 83 days 77 days 0 days 1855 d 77 days 0 days 1855 d 78 days 185 d											-			Eonei	ng . Dar+ 2C	(~69m)			Fencing -	ran: 3F (~62m	
Fencing - Part 4 (*180m) 12 days 12 days 12 days NA NA NA November 1, 2021 November 2, 2021 NA NA November 2, 2024 NA NA November 2, 2019 November 2, 2019 Nay 25, 2024 Nay 27, 2024 Nay 27, 2024 Nay 27, 2024 Nay 27, 2024 Nay 28, 2024 Nay 29, 2024														I IIII NI	MII III I	- -					
Fencing - Part 6A (~19m) 2 days 2 days NA NA November 1, 2019 November 2, 2019 November 3, 2019 November 2, 2019 November 2, 2019 November 2, 2019 November 2, 2019 November 3, 2019 November 3, 2019 November 2, 2019 November 2, 2019 November 2, 2019 November 3, 2014 November 15, 2012 November 15, 2014 November 1			· ·										-		1 1 1	1	ncing - Part	4 (~180m)			
Fencing - Part 6B (~23m) 2 days 2 days NA NA NA November 4, 2019 November 5, 2019 November 5, 2019 November 5, 2019 November 5, 2019 November 15, 2019 Novem			-										-	Fencing	- Part 6A (~	19m)					
Fencing (15m/d) & Hoarding Erection (10m/d) - Upon Works 95 days 95 da		2 days	2 days	NA	NA	November 4, 2019	November 5, 2019	May 28, 2024					1355 d	_ -		11 1 11					
Completion 777 Fencing - ~1437m 95 days 95 days NA NA April 29, 2022 August 19, 2022 August 19, 2022 August 19, 2022 November 15, 2022	775 Hoarding - WA1 (~300m)	21 days	21 days	NA	NA	October 8, 2019	October 31, 2019	April 29, 2024	May 24, 2024	0%	0 days	0.5 days	1355 d	Hoardir	ng - WA1 (~3	00m)					
Fencing - ~1437m		ks 95 days	95 days	NA	NA	April 29, 2022	August 19, 2022	July 25, 2022	November 15, 202	2 0%	72 days		72 days						Fencing (15	m/d) & Hoardi	ıg Erectio
778 Hoarding -~260m 26 days 26 days NA NA April 29, 2022 May 28, 2022 October 17, 2022 November 15, 2022 0% 69 days 0.5 days 141 days 779 Demolition Work - Extg Fire Service Station 136 days 117.24 days August 16, 2019 NA August 16, 2019 Ianuary 31, 2020 August 16, 2019 May 13, 2020 0% 82 days Fittle: Revised Programme ED/2018/01 with Progress 50 27 Spo 10	-	95 days	95 days	NA	NA	April 29, 2022	August 19, 2022	July 25, 2022	November 15. 202	2 0%	0 days	1 day	72 days						Fencing - ~1	437m	
779 Demolition Work - Extg Fire Service Station 136 days 117.24 days August 16, 2019 NA August 16, 2019 NA August 16, 2019 Nay 13, 2020 Nay 13, 2020													-								
Title: Revised Programme- ED/2018/01 with Progress Underto as of 23 Sp. 10		136 days	117.24 days	August 16, 2019	NA	August 16, 2019	January 31, 2020	August 16, 2019	May 13, 2020				-	D	emolition W	ork - Extg Fi	re Service Sta	tion			
ED/2018/01 with Progress Lindotto as of 23 Spn 10	tle: Revised Programme- Critical Task		Ma	anual Task	Duration-	only	Baseline Milestone	> Sum	nmary	Ext	ternal Tasks		Inactive Milestone	♦	Baseline Summa						
Update as of 22-Sep-19 Critical Progress Task Progress Task Progress Finish-only Baseline Split Summary Progress Project Summary Inactive Task Deadline	ED/2018/01 with Progress Critical Split Split						Milestone 4					one 🔷				-					
	Update as of 22-Sep-19 Critical Progress Task Progress	ogress	Fir	nish-only 3	Baseline S	Split	Summary Progress	Proje	ect Summary	Ina	ctive Task		Deadline	•							
Page 14	·							Page	14												

Tas	isk Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical	Free	Time Risk	Total	
las	isk ivalle	Duration	Duration	Actual Start	Actual Fillish	rian Start	riaii i iiiisii	Late Start	Late Hillsii	%	Slack	Allowances	Slack 2019	2020 2021 2022 2023 202
80	Asbesto Survey (PS Cl. 2.04(9))	8 days	0 days	August 16, 2019	August 23, 2019	August 16, 2019	August 23, 2019	August 16, 2019	August 23, 2019	Complete 100%		(TRA) 0 days	0 days	H2
81	Demolish of abandoned Fire Service Station	50 days	50 days	NA	NA	November 28, 2019	January 31, 2020	March 10, 2020	May 13, 2020	0%	65 days	1 day	82 days	Demolish of abandoned Fire Service Station
82		50 days	50 days	NA	NA	November 26, 2019	January 29, 2020	May 11, 2020	July 9, 2020		131 days		131 days	Ground Investigation
83		50 days	, .	NA	NA	November 26, 2019		May 11, 2020	July 9, 2020		131 days		131 days	GI Work
84 85	Rising Main Part 1 - CHA660-1097.77 - 2x160mm dia (~438m)	765 days 146 days	765 days 146 days	NA NA	NA NA	July 10, 2020 July 10, 2020	February 1, 2023 January 2, 2021	July 10, 2020 July 10, 2020	May 30, 2023 January 2, 2021		0 days 0 days		0 days	Rising Main Part 1 - C-1A660-1097.77 - 2x160mm dia (~438m)
00	Fait 1 - CHA000-1037.77 - 2x100Hill tila (438Hi)	140 uays	140 uays	IVA	INA	July 10, 2020	January 2, 2021	July 10, 2020	January 2, 2021	076	o uays	7 days	o days	
86	Part 9A - CHA32-71 - 2x160mm dia (~39m) (KD5)	211 days	211 days	NA	NA	January 4, 2021	September 17, 202	1 January 4, 2021	September 17, 202	21 0%	0 days	30 days	0 days	Part 9A - CHA32-71 - 2x160mm dia (+39m) (KD5)
87	Part 9B Rising Main	211 days	211 days	NA	NA	January 4, 2021	September 17, 202	1 March 11, 2021	November 23, 202	1 0%	49 days	30 days	54 days	Part 9B Rising Main
88	Part 3B - CHA418-443 - 2x160mm dia (~25m) (KD7)	365 days	365 days	NA	NA	March 5, 2021	May 27, 2022	March 11, 2021	June 2, 2022				5 days	Part 3B - CHA418-443 - 2x160mm dia
	D 10 0000 052 0 74 052 0 450 Ut (1004) (1004	100 1	105 1							001				Part 9 - CHA0-363 & 71-363 - 2x160mm dia. (
89	Part 9 - CHA0-363 & 71-363 - 2x160mm dia. (~324m) (KD4)	126 days	126 days	NA	NA	August 31, 2021	January 31, 2022	August 31, 2021	January 31, 2022	0%	0 days	15 day	0 days	Part 9 - ChAU-303 & 71-303 - 2x100////// ula. (
90	Part 8 - CHA363-418&443-452 - 2x160mm dia (~64m)	150 days	150 days	NA	NA	February 4, 2022	August 4, 2022	September 2, 2022	March 3, 2023	0%	79 days	0 days	174 days	Part 8 - CHA363-418&443-452 - 29
91	Part 3A - CH452-660 - 2x160mm dia (~208m)	69 days	69 days	NA	NA	November 9, 2022	February 1 2023	March 4, 2023	May 30, 2023	0%	0 days	1 day	95 days	Part 3A - CH452-660 - 2
92	· · · · · · · · · · · · · · · · · · ·	0 days	0 days	NA	NA	February 1, 2023	February 1, 2023	May 30, 2023	May 30, 2023		118 days	1 day	118 days	✓ Allow Access for EMSD
<i>JE</i>	Contractor for DCS Pipeline Laying at Parts 3A, 3B, 8, 9 and	,.	,-			, , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, 55, 2525	, , , , , , , , , , , , , , , , , , , ,					
93	9A Underground Drainage	416 days	416 days	NA	NA	February 16, 2021	July 11 2022	March 5, 2021	September 24, 20.	0%	15 days		15 days	Underground Drainage
94		90 days	90 days	NA	NA NA	February 16, 2021		March 5, 2021	June 2, 2021		0 days		17 days	Procurement of Stormwater Drainage Pipes
95		308 days	· ·	NA	NA	May 17, 2021	May 28, 2022	June 3, 2021	September 24, 20.		14 days		14 days	Stormwater Drainage
96	CH1000 - CH1087 (~92.5m, 2 M/H)	16 days	16 days	NA	NA	• •		1 November 24, 2021			0 days		0 days	CH1000 - CH1087 (~92.5m, 2 M/H)
97	· , , , , , , , , , , , , , , , , , , ,	24 days	24 days	NA	NA	June 3, 2021	July 2, 2021	June 3, 2021	July 2, 2021				0 days	CH1087 - CH1189.4 (~210m, 9 M/H)
98		24 days	24 days	NA	NA	May 29, 2021	June 26, 2021	September 11, 2021	October 11, 2021		18 days		88 days	CH1189.4 - CH1394 (~167m, 3 MH) - Bridge D3
00	CH1204 CH1444 7 (~40m 2 M4/II) C Dame	21 days	21 days	NA	NA	July 20, 2021	August 12, 2021	October 13, 2021	November 5, 2024	0%	70 dav.a	0 days	70 days	CH1394 - CH1444.7 (~40m, 3 M/H) - S. Ramp
99 00		21 days 35 days	21 days 35 days	NA NA	NA NA	July 20, 2021 May 20, 2021	August 12, 2021 June 30, 2021	October 12, 2021 October 25, 2021	November 5, 2021 December 3, 2021		70 days 130 days	,	70 days 130 days	CH1444.7 - CH1560 (~222m, 10 M/H) - Rd D3
01		14 days	14 days	NA	NA	May 17, 2021	June 2, 2021	April 19, 2022	May 4, 2022		0 days		273 days	CH1560 - CH1720 (~239m, 8 M/H) - N.D. Rd
02		90 days	90 days	NA	NA	June 3, 2021	September 17, 202	_ · · · · ·	August 19, 2022		0 days		273 days	CH1720 - CH1920 (~450.7m, 13 M/H) Underpass
	, , , , , , , , , , , , , , , , , , , ,	,	,			,	,	., ., .			, , ,	,		
)3	· , , , , , , , , , , , , , , , , , , ,	14 days	14 days	NA	NA	September 18, 2021	, , , , , , , , , , , , , , , , , , ,	August 20, 2022	September 5, 2022			0 days	273 days	CH1920 - CH2000 (~160m, 6 M/H) S.D. Rd
)4		14 days	14 days	NA	NA	October 7, 2021	October 23, 2021	September 6, 2022	September 22, 202			0 days	273 days	CH2060 - CH2060 (~84m, 2 M/H) - S.D. Rd CH2060 - CH2118.93 (~50.7m, 2 M/H) - Rd D3
)5		14 days	14 days	NA NA	NA NA	June 19, 2021	July 6, 2021	September 8, 2022	September 24, 202			0 days	366 days	CH100 - CH147 (~169m, 5 M/H) - L12
06 07		35 days 70 days	35 days 70 days	NA NA	NA NA	April 19, 2022 January 19, 2022	May 28, 2022 April 14, 2022	June 25, 2022 March 30, 2022	August 5, 2022 June 24, 2022		0 days 0 days		57 days 57 days	Open Space & Promenade (~457m, 11 M
08		392 days	392 days	NA	NA NA	March 16, 2021	July 11, 2022	April 4, 2021	September 16, 20.		15 days		15 days	\$ewerage Drainage
09	<u> </u>	90 days	90 days	NA	NA	March 16, 2021	June 13, 2021	April 4, 2021	July 2, 2021		19 days		19 days	Progurement of Sewerage Pipes
10	CH1000 - CH1087 (~68m, 3 M/H)	18 days	18 days	NA	NA	November 22, 2021	December 11, 202	1 November 22, 2021	December 11, 202			1 days	0 days	CH1000 - CH1087 (~68m, 3 M/H)
11	CH1087 - CH1189.4 (~47m, 1 no M/H)	12 days	12 days	NA	NA	July 3, 2021	July 16, 2021	July 3, 2021	July 16, 2021	0%	0 days	1 days	0 days	CH1087 - CH1189.4 (~47m, 1 no M/H)
12	CH100 - CH147 (~156m, 6 M/H) - L12 Road	35 days	35 days	NA	NA	May 30, 2022	July 11, 2022	August 6, 2022	September 16, 202	22 0%	0 days	0.5 days	57 days	CH100 - CH147 (~156m, 6 M/H) - L:
13		392 days	392 days	NA	NA	May 29, 2021	September 19, 20.		October 14, 2022		20 days		20 days	Underground Watermain
14		310 days		NA	NA	May 29, 2021	June 13, 2022	July 17, 2021	September 22, 20.		40 days		40 days	Fresh Watermain CH1000 - CH1087 (~191m) Rd D3
15		20 days 4 days	20 days 4 days	NA NA	NA NA	August 31, 2021 July 17, 2021	September 23, 202 July 21, 2021	July 17, 2021	September 23, 202 July 21, 2021		0 days 0 days		0 days	CH1087 - CH1189.4 (~212m) - N. Ramp
16 17		40 days	40 days	NA	NA	May 29, 2021	July 16, 2021	August 21, 2021	October 8, 2021			0.5 days	70 days	CHL189.4 - CH1394 (~409.2m) - Bridge D3
18		10 days	10 days	NA	NA	June 1, 2021	June 11, 2021	October 9, 2021	October 21, 2021			0 days	108 days	## CH1394 - CH1444.7 (~101.4m) - S. Ramp
19		18 days	18 days	NA	NA	June 25, 2021	July 16, 2021	October 19, 2021	November 8, 2021		0 days	0 days	95 days	CH1444.7 - CH1560 (←1.65m) - Rd D3
20	CH1720 - CH1920 (~25m) - Underpass	2 days	2 days	NA	NA	September 18, 2021	September 20, 202	1 September 19, 2022	September 20, 202	2 0%	0 days	0 days	297 days	CH 1720 - CH1920 (~25m) - Underpass
21	CH2060 - CH2118.93 (~47m) - Rd D3	2 days	2 days	NA	NA	July 2, 2021	July 3, 2021	September 21, 2022	September 22, 202	22 0%	69 days	0 days	366 days	CH2060 - CH2118.93 (~47m) - Rd D3
22		28 days	28 days	NA	NA	May 11, 2022	June 13, 2022	July 5, 2022	August 5, 2022		0 days		45 days	CH100 - CH147 (~280m) - L12 Road
23		110 days		NA	NA	December 22, 2021		January 18, 2022	June 2, 2022		0 days		20 days	Open Space & Promenade (~1,093m)
24		390 days		NA NA	NA NA	June 1, 2021	September 19, 20.		October 14, 2022		20 days		20 days	Salt Watermain CH1000 - CH1087 (~157m) Rd D3
25		15 days	15 days	NA NA	NA NA		September 16, 202		September 16, 202		0 days		0 days	CH1000 - CH1087 (~157m) Rd D3
26 27		4 days 40 days	4 days 40 days	NA NA	NA NA	July 22, 2021 June 1, 2021	July 26, 2021 July 19, 2021	July 22, 2021 August 24, 2021	July 26, 2021 October 11, 2021		0 days 0 days		0 days 70 days	CH1189.4 - CH1394 (~409.2m) - Bridge DB
27		10 days	10 days	NA	NA	June 12, 2021	June 24, 2021	October 22, 2021	November 2, 2021		0 days		108 days	CH1394 - CH1444.7 (~101.4m) - S. Ramp
29		18 days	18 days	NA	NA	July 17, 2021	August 6, 2021	November 9, 2021			0 days		95 days	CH1444.7 - CH1560 (~165m) - Rd D3
30		2 days	2 days	NA	NA			1 September 21, 2022					297 days	CH1720 - CH1920 (~25m) - Underpass
1	CH2060 - CH2118.93 (~47m) - Rd D3	2 days	2 days	NA	NA	September 24, 2021	September 25, 202	1 September 23, 2022	September 24, 202	22 0%	24 days	0 days	297 days	CH2060 - CH2118.93 (~47m) - Rd D3
2	CH100 - CH147 (~455m) - L12 Road	45 days	45 days	NA	NA	June 14, 2022	August 5, 2022	August 6, 2022	September 28, 202		0 days	0.5 days	45 days	CH100 - CH147 (~455m) - L12 Roa
13		110 days		NA	NA	May 11, 2022	September 19, 202		October 14, 2022		0 days		20 days	Open Space & Promenade (~1,0
4	-	337 days		NA	NA	June 25, 2021		July 16, 2021	October 5, 2022		17 days		17 days	Irrigation System
5		5 days	5 days	NA	NA			1 September 17, 2021			0 days		0 days	CH1000 - CH1087 (~87m) Rd D3 CH1087 - CH1189.4 (~205m) - N. Ramp
6		9 days	9 days 7 days	NA NA	NA NA	July 16, 2021 June 25, 2021	July 26, 2021 July 3, 2021	July 16, 2021 October 4, 2021	July 26, 2021 October 11, 2021		0 days 13 days		0 days 83 days	CH1189,4 - CH1189,4 (~205m) - N. Ramp
37 38		7 days 3 days	3 days	NA NA	NA NA	June 25, 2021 June 25, 2021	July 3, 2021 June 28, 2021				13 days 108 days		108 days	3CH1394 - CH1444.7 (~101.4m) - S. Ramp
39	<u> </u>	4 days	4 days	NA NA	NA NA	August 7, 2021	August 11, 2021	November 30, 2021			95 days		95 days	CH1444.7 - CH1560 (-175m) - Rd D3
40		4 days	4 days	NA	NA	October 7, 2021		September 19, 2022			10 days		283 days	CH1920 - CH2000 (~160m) S.D. Rd
	d Programme- Critical Task 18/01 with Progress Critical Solit		M St	anual Task	Duration-	only	Baseline Milestone		nmary		ernal Tasks	no 🕏	Inactive Milesto	,
	18/01 with Progress Critical Split Split Split e as of 22-Sep-19 Critical Progress Task Progr			art-only L nish-only]	Baseline S	plit	Milestone Summary Progress		ect Summary		ernal Milesto	ne 🗸	Inactive Summa Deadline	•
											ctive Task			↓

. 33	sk Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	_	Late Start	Progress Update as of Late Finish	Physical From	ee Tin	ne Risk Total	
			Duration							'	ack All	lowances Slack	2019 2020 2021 2022 2023 202
1	CH2000 - CH2060 (~60m) - S.D. Rd	2 days	2 days	NA	NA	October 25, 2021	October 26, 2021	September 23, 2022	Sontombor 24, 2022	Complete	(TR days 0 d	RA) days 273 days	H1 H2
2	CH2060 - CH2118.93 (~100m) - Rd D3	3 days	3 days	NA	NA	October 23, 2021 October 27, 2021	· ·	September 26, 2022			28 days 0 d		
	CH100 - CH147 (~173m) - L12 Road	4 days	4 days	NA	NA	August 6, 2022	· ·	September 29, 2022			days 0 d		CH100 - CH147 (-173m) - L12 Ro
1	Underground pump house next to underpass	168 days	168 days	NA	NA	June 29, 2021		August 7, 2021			days	33 days	₩ Wnderground pump house next to underpase
5	Underground pump house structure	90 days	90 days	NA	NA	June 29, 2021		August 7, 2021	November 23, 2021	0% 0 0	days 4 d		Underground pump house structure
6	E&M installation	60 days	60 days	NA	NA	October 16, 2021	December 24, 2021	November 24, 2021	February 8, 2022	0% 0 0	days 3 d	days 33 days	E8ℓM installation
7	Testing and Commissioning	18 days	18 days	NA	NA	December 28, 2021	January 18, 2022	February 9, 2022	March 1, 2022	0% 33	days 1 d	days 33 days	Testing and Commissioning
8	Salt Water Pumping Station	689 days	689 days	NA	NA	September 15, 20	January 6, 2023	July 23, 2022	May 30, 2023	0% 11	4 days	114 days	
9	ELS & Excavation	60 days	60 days	NA	NA	July 13, 2021	September 20, 2021	July 23, 2022	October 3, 2022	0% 14	days 1 d	day 307 days	ELS & Excavation
0	Structure	90 days	90 days	NA	NA	October 9, 2021	January 26, 2022	October 5, 2022	January 18, 2023	0% 0 0	days 1 d	day 293 days	
1	Finishing work and fitting out	60 days	60 days	NA	NA	January 27, 2022		January 30, 2023	' '	0% 0 0	days 1 d	day 299 days	Finishing work and fitting out
2	Ironmongery work	24 days	24 days	NA	NA	April 12, 2022		April 14, 2023			days 0.5	days 299 days	
3	E&M installation & ABWF work	90 days	90 days	NA	NA	January 27, 2022		January 19, 2023			days 1 d		
1	Testing and Commissioning	14 days	14 days	NA	NA	May 20, 2022		May 13, 2023			93 days 0 d		Testing and Commissioning
	WSD Form 542 Submission	0 days	0 days	NA	NA		September 15, 2020		-, ,		3 days	958 days	♦ WSD Form 542 Submission ■ WSD Form 46 Part I & II Submission
	WSD Form 46 Part I & II Submission	0 days		NA	NA	March 27, 2021		May 1, 2023	, -,		3 days	765 days	₩SD Form 46 Part 10 Submission WSD Form 46 Part 46 Part IV Submission
	WSD Form 46 Part 46 Part IV Submission CLP Meter Installation	0 days	0 days 0 days	NA NA	NA NA	March 15, 2022 June 19, 2022	· ·	May 1, 2023 May 1, 2023	-, ,		68 days 72 days	412 days	
3	FSD Form 501 Submission for FS Inspection	0 days 0 days	0 days	NA	NA NA	<u> </u>	December 8, 2022		<u> </u>		days	316 days 144 days	S F\$D Form 501 Submission
)	FSD Inspection	0 days	0 days	NA	NA		December 22, 2022				days	144 days	X FSD Inspection
) L	Issuance of FS Certificate	0 days		NA	NA			May 30, 2023			l4 days	144 days	▼ Issuance of FS Certifica
_	Sewage Pumping Station	689 days	689 days	NA	NA	September 15, 20		November 26, 2021			4 days	114 days	
2	ELS & Excavation	60 days	60 days	NA	NA	July 13, 2021	September 20, 2021		February 10, 2022		days 1 d	•	
	Structure	90 days	90 days	NA	NA	September 21, 202:		February 11, 2022	, ,		days 1 d		-
	Finishing work and fitting out	60 days	60 days	NA	NA	January 11, 2022		June 9, 2022	August 18, 2022		days 1 d		
	Ironmongery work	24 days	24 days	NA	NA	March 25, 2022		August 19, 2022	September 16, 2022		days 0.5		<u> </u>
	E&M installation & ABWF work	90 days	90 days	NA	NA	January 11, 2022	May 3, 2022	June 1, 2022	September 16, 2022	0% 39	days 1 d	day 114 days	EBM installation & ABWF work
	Testing and Commissioning	14 days	14 days	NA	NA	July 12, 2022	July 27, 2022	September 17, 2022	October 5, 2022	0% 12	days 0 d	days 57 days	Festing and Commissioning
	WSD Form 542 Submission	0 days	0 days	NA	NA	September 15, 2020	September 15, 2020	May 1, 2023	May 1, 2023	0% 19	3 days	958 days	→ WSD Form 542 Submission
	WSD Form 46 Part I & II Submission	0 days	0 days	NA	NA	March 27, 2021	March 27, 2021	May 1, 2023	May 1, 2023	0% 35	3 days	765 days	WSD Form 46 Part I & II Submission
	WSD Form 46 Part 46 Part IV Submission	0 days	0 days	NA	NA	March 15, 2022	March 15, 2022	May 1, 2023	May 1, 2023	0% 26	8 days	412 days	WSD Form 46 Part 46 Part IV Submission
	CLP Meter Installation	0 days	0 days	NA	NA	June 19, 2022	June 19, 2022	May 1, 2023	May 1, 2023	0% 17	⁷ 2 days	316 days	<mark>-</mark>
3	FSD Form 501 Submission for FS Inspection	0 days	0 days	NA	NA			May 1, 2023	-, ,		days	144 days	S FSD Form 501 Submissio
4	FSD Inspection	0 days	/ -	NA	NA	December 22, 2022	December 22, 2022	May 16, 2023			days	144 days	* FSD Inspection
5	Issuance of FS Certificate	0 days	- '	NA	NA	January 6, 2023		May 30, 2023			4 days	144 days	* Issuance of FS Certifica
6	Seawater Intake Box Culvert (~169m)	812 days		NA	NA	March 20, 2020	December 10, 2022	• •	December 10, 2022		days	0 days	Seawater Intake Box Culv Part 4 - CHA.0-79 (79m)
7	Part 4 - CHA.0-79 (79m) Temporary ELS & Excavation	440 days 24 days	440 days 24 days	NA NA	NA NA	June 24, 2021 June 24, 2021	December 10, 2022 July 22, 2021	June 24, 2021 June 24, 2021	December 10, 2022 July 22, 2021		days days 1 d	0 days days 0 days	Temporary ELS & Excavation
9	Base Slab (12d/bay)	24 uays	24 uays	NA	NA	July 23, 2021			November 15, 2021		days 1 d days 5 d		Base Slab (12d/bay)
	base slab (12d/bay)	96 days	96 days		INA						uays 5 u	ays o days	
	Wall (14d/hav)	96 days	96 days		NΑ		November 15, 2021	Sentember 20, 2021			days 5 d	days 0 days	Wall (14d/bay)
	Wall (14d/bay) Top Slab (20d/bay)	112 days	112 days	NA	NA NA	September 20, 202	February 7, 2022	September 20, 2021 February 8, 2022	February 7, 2022	0% 0 0	days 5 d	·	Wall (14d/bay) Top Slab (20d/bay)
	Top Slab (20d/bay)	112 days 160 days	112 days 160 days		NA NA NA	September 20, 2022 February 8, 2022	February 7, 2022 August 19, 2022	February 8, 2022	February 7, 2022 August 19, 2022	0% 0 c	days 8 d	days 0 days	Wall (14d/bay) Top Slab (20d/bay) Remove struts and backfilling
	Top Slab (20d/bay) Remove struts and backfilling	112 days 160 days 18 days	112 days 160 days 18 days	NA NA	NA NA	September 20, 2022 February 8, 2022 August 20, 2022	February 7, 2022 August 19, 2022 September 9, 2022	February 8, 2022 August 20, 2022	February 7, 2022 August 19, 2022 September 9, 2022	0% 0 c 0% 0 c	days 8 d	days 0 days	Top Slab (20d/bay)
) L 2	Top Slab (20d/bay)	112 days 160 days	112 days 160 days	NA NA NA	NA	September 20, 202 February 8, 2022 August 20, 2022 September 12, 20	February 7, 2022 August 19, 2022	February 8, 2022 August 20, 2022 September 12, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022	0% 0 c 0% 0 c 0% 0 c 0% 0 c	days 8 d	days 0 days days 0 days 0 days	Top Slab (20d/bay) Remove struts and backfilling
) - !	Top Slab (20d/bay) Remove struts and backfilling Precast Installation	112 days 160 days 18 days 76 days	112 days 160 days 18 days 76 days	NA NA NA	NA NA NA	September 20, 2022 February 8, 2022 August 20, 2022 September 12, 20 September 12, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022	February 8, 2022 August 20, 2022 September 12, 2022 September 12, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022	0% 0 c 0% 0 c 0% 0 c 0% 0 c	days 8 d days 1 d days	days 0 days days 0 days 0 days 0 days 0 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation
	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection	112 days 160 days 18 days 76 days 26 days	112 days 160 days 18 days 76 days 26 days	NA NA NA NA	NA NA NA	September 20, 202: February 8, 2022 August 20, 2022 September 12, 20 September 12, 202: October 14, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022	February 8, 2022 August 20, 2022 September 12, 2022 September 12, 2022 October 14, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022	0% 0 c	days 8 d days 1 d days days 1 d	days 0 days days 0 days 0 days 0 days days 0 days days 0 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation
22 33 4 5 5 5 6	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform & existing seawall	112 days 160 days 18 days 76 days 26 days 14 days 21 days	112 days 160 days 18 days 76 days 26 days 14 days 21 days	NA NA NA NA NA NA	NA NA NA NA NA	September 20, 202: February 8, 2022 August 20, 2022 September 12, 20.: September 12, 202: October 14, 2022 October 31, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 23, 2022	February 8, 2022 August 20, 2022 September 12, 2022 September 12, 2022 October 14, 2022 October 31, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 23, 2022	0% 0 c	days 8 d days 1 d days days 1 d days 1 d days 1 d days 1 d	days 0 days days 0 days 0 days 0 days days 0 days days 0 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform
	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform & existing seawall Install precast seawall intake	112 days 160 days 18 days 76 days 26 days 14 days 21 days	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days	NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA	September 20, 202: February 8, 2022 August 20, 2022 September 12, 20 September 12, 202: October 14, 2022 October 31, 2022 November 24, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 23, 2022	February 8, 2022 August 20, 2022 September 12, 2022 September 12, 2022 October 14, 2022 October 31, 2022 November 24, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 23, 2022	0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	days 8 d days 1 d days days 1 d days 1 d days 1 d days 1 d days 0 d	days 0 days days 0 days 0 days 0 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform
	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform & existing seawall Install precast seawall intake Reinstate seawall	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days	NA	NA NA NA NA NA NA NA NA	September 20, 202: February 8, 2022 August 20, 2022 September 12, 20.: September 12, 202: October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 23, 2022 November 29, 2022 December 10, 2022	February 8, 2022 August 20, 2022 September 12, 2022 September 12, 2022 October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 23, 2022 November 29, 2022 December 10, 2022	0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	days 8 d days 1 d days days 1 d days 1 d days 1 d days 0 d days 0 d days 0 d	days 0 days days 0 days 0 days 0 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform Install precast seawall inta
	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform & existing seawall Install precast seawall intake Reinstate seawall Part 10 - CHA79-89 (10m)	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days	NA	NA	September 20, 202: February 8, 2022 August 20, 2022 September 12, 20.: September 12, 202: October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022 April 22, 2020	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 23, 2022 November 29, 2022 December 10, 2022 June 23, 2021	February 8, 2022 August 20, 2022 September 12, 2022 September 12, 2022 October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022 April 1, 2021	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 23, 2022 November 29, 2022 December 10, 2022 June 23, 2021	0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	days 8 d days 1 d days days 1 d days 1 d days 1 d days 0 d days 0 d days 0 d days	days 0 days days 0 days 0 days 0 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform Install precast seawall inta Reinstate seawall
	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform & existing seawall Install precast seawall intake Reinstate seawall Part 10 - CHA79-89 (10m) Temporary ELS & Excavation	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days 14 days	NA N	NA	September 20, 202: February 8, 2022 August 20, 2022 September 12, 20.: September 14, 2022 October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022 April 22, 2020	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 29, 2022 November 29, 2022 December 10, 2022 June 23, 2021	February 8, 2022 August 20, 2022 September 12, 2022 September 12, 2022 October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022 April 1, 2021	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 29, 2022 November 29, 2022 December 10, 2022 June 23, 2021 April 20, 2021	0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	days 8 d days 1 d days 0 d	days 0 days days 0 days 0 days 0 days 0 days days 282 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform Install precast seawall inta Reinstate seawall Part 10 - CHA79-89 (10m)
	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform & existing seawall Install precast seawall intake Reinstate seawall Part 10 - CHA79-89 (10m) Temporary ELS & Excavation Base Slab (12d/bay)	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days 14 days 12 days	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days 14 days	NA N	NA	September 20, 202: February 8, 2022 August 20, 2022 September 12, 20.: September 14, 2022 October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022 April 22, 2020 August 17, 2020	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 29, 2022 December 10, 2022 June 23, 2021 May 9, 2020 August 29, 2020	February 8, 2022 August 20, 2022 September 12, 2022 September 14, 2022 October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022 April 1, 2021 April 21, 2021	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 29, 2022 November 29, 2022 December 10, 2022 June 23, 2021 April 20, 2021 May 5, 2021	0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	days 8 d days 1 d days 1 d days 1 d ddays 1 d ddays 0 d ddays 0 d ddays 0 d days 0 d days 0 d d days 0 d d days 0 d d days 0 d	days 0 days 0 days 0 days 0 days 0 days days 282 days days 200 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform Install precast seawall into Reinstate seawall Temporary ELS-& Excavation Base Slab (12d/bay)
	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform & existing seawall Install precast seawall intake Reinstate seawall Part 10 - CHA79-89 (10m) Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay)	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days 14 days 12 days	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days 14 days 12 days 14 days	NA N	NA N	September 20, 202: February 8, 2022 August 20, 2022 September 12, 20.: September 12, 202: October 14, 2022 October 31, 2022 November 24, 2022 April 22, 2020 April 22, 2020 August 17, 2020 November 5, 2020	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 29, 2022 December 10, 2022 June 23, 2021 May 9, 2020 August 29, 2020 November 20, 2020	February 8, 2022 August 20, 2022 September 12, 2022 September 14, 2022 October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022 April 1, 2021 April 1, 2021 April 21, 2021 May 6, 2021	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 29, 2022 December 10, 2022 June 23, 2021 April 20, 2021 May 5, 2021 May 22, 2021	0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 ddays 8 ddays 1 ddays 1 ddays 1 ddays 1 ddays 1 ddays 1 ddays 0 dday	days 0 days days 0 days 0 days 0 days 0 days days 282 days days 280 days days 146 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform Install precast seawall into Reinstate seawall Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay)
	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform & existing seawall Install precast seawall intake Reinstate seawall Part 10 - CHA79-89 (10m) Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay)	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days 14 days 12 days 12 days	112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days 14 days 12 days 14 days 20 days	NA N	NA N	September 20, 202: February 8, 2022 August 20, 2022 September 12, 20.: September 12, 202: October 14, 2022 October 31, 2022 November 24, 2022 April 22, 2020 April 22, 2020 August 17, 2020 November 5, 2020 May 24, 2021	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 29, 2022 December 10, 2022 June 23, 2021 May 9, 2020 August 29, 2020 November 20, 2020 June 16, 2021	February 8, 2022 August 20, 2022 September 12, 2022 September 14, 2022 October 14, 2022 October 31, 2022 November 24, 2022 November 30, 2022 April 1, 2021 April 21, 2021 May 6, 2021 May 24, 2021	February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022 October 29, 2022 November 29, 2022 December 10, 2022 June 23, 2021 April 20, 2021 May 5, 2021 June 16, 2021	0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 ddays 8 ddays 1 ddays 1 ddays 1 ddays 1 ddays 1 ddays 1 ddays 0 ddays 1 dday	days 0 days days 0 days 0 days 0 days 0 days days 282 days days 200 days days 0 days	Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Pipe pile installation Remove of piling platform Install precast seawall into Reinstate seawall Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay)
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Task N	Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Free	Time Ris	sk Total	1	
			Duration							% Slack	1 -	ices Slack	2019 2020	2021 2022 2023
	Deck (4 bays) & link bridge 18d/bay	72 days	72 days	NA	NA	July 9, 2021	October 2, 2021	August 11, 2021	November 5, 2021	Complete 0 days	(TRA) 1 day	28 days	H1 H2 H1 H2 Sun September 22	H1 H2 H1 H2 H1 H2 H1 H2 H1 H2
	Secondary Upstand Beam	14 days		NA	NA	September 24, 2021	· ·	December 11, 2021	December 29, 2021			65 days		Secondary Upstand Beam
	Dismantle falsework	5 days	5 days	NA	NA	October 29, 2021	November 3, 2021	January 31, 2022	February 8, 2022	0% 49 day	s 0 days	77 days		T Dismantle falsework
	Part 2A - CH2007-2060 (53m) 3 bays	136 days	136 days	NA	NA	July 22, 2021	January 3, 2022	September 8, 2021	February 8, 2022	0% 28 day	s	28 days		Part 2A - Cl- 2007-2 <mark>0</mark> 60 (53m) 3 bays
	Pier (3sets x 3nos) within CH2007-2060. 1 team	45 days	45 days	NA	NA	July 22, 2021	September 11, 202	1 September 8, 2021	November 2, 2021	0% 0 days	0.5 days	41 days		Pier (3sets x 3nos) within CH2007-2060. 1 team
	Falsework erection	7 days	7 days	NA	NA	Sontombor 12, 2021	Santambar 20, 202	1 November 3, 2021	November 10, 2021	0% 12 day	s 0 days	41 days		Falsework erection
	Deck (3 bays) 18d/bay	54 days		NA	NA NA			November 6, 2021	January 11, 2022		1 day	28 days		Deck (3 bays) L8d/bay
	Secondary Upstand Beam	12 days	, .	NA	NA	· · · · · · · · · · · · · · · · · · ·	,	December 30, 2021	January 13, 2022			28 days		Secondary Upstand Beam
	Dismantle falsework	5 days		NA	NA	December 28, 2021		January 31, 2022	February 8, 2022			28 days		Dismantle falsework
_	Part 2A - CH2060-2119 (59m) 3 bays	299 days		NA	NA	June 16, 2020	June 18, 2021	June 29, 2020	November 20, 202			10 days		Part 2A - CH2060-2119 (59m) 3 bays
	Mobilization of plant and material	36 days	36 days	NA	NA	June 16, 2020	July 29, 2020	June 29, 2020	August 10, 2020	0% 0 days	2 days	10 days	Mobi	pilization of plant and material
	Foundation Construction	90 days	90 days	NA	NA	July 30, 2020	October 27, 2020	March 11, 2021	June 8, 2021	0% 63 day	s 1 day	224 days	<u> </u>	Foundation Construction
	Pier (3sets x 3nos) within CH2060-2119. 1 team	45 days	45 days	NA	NA	December 30, 2020	February 24, 2021	June 9, 2021	August 2, 2021	0% 0 days	0.5 days	129 days	i l	Pier (3sets x 3nos) within CH2060-2119. 1 team
	Falsework erection	7 days	7 days	NA	NA	February 25, 2021	March 4, 2021	August 2, 2021	August 10, 2021	0% 0 days	O daye	129 days	i l	Falsework erection
	Deck (3 bays) 18d/bay	54 days		NA	NA NA	March 5, 2021	May 11, 2021	August 3, 2021 August 11, 2021	October 15, 2021	, .	0 days 1 day	129 days	i l	Deck (3 bays) 18d/bay
	Secondary Upstand Beam	12 days	, .	NA	NA	May 12, 2021	May 26, 2021	October 16, 2021	October 29, 2021			129 days	i l	Secondary Upstand Beam
	Dismantle falsework	5 days		NA	NA	June 12, 2021	June 18, 2021	November 16, 2021	November 20, 2021		0 days	129 days	i l	Dismantle falsework
	Installation of Glass Balustrade	42 days	/-	NA	NA		January 29, 2022	March 2, 2022	April 23, 2022	0% 0 days				Installation of Glass Balustrade
_	art 2A - Lift LT1 & LT2	330 days	· ·	NA	NA	January 31, 2022	March 9, 2023	April 25, 2022	May 30, 2023	0% 64 day		64 days		Part 2A - Lift L
_	Mobilization of plant and materials	15 days	15 days	NA	NA	January 31, 2022	February 19, 2022	April 25, 2022	May 11, 2022	0% 0 days	0 days	65 days		Mobilization of plant and materials
_	Foundation Construction	43 days	43 days	NA	NA	February 17, 2022	April 8, 2022	May 9, 2022	June 28, 2022	0% 0 days	0.5 days	65 days	1	Foundation Construction
	RC Structure	28 days	28 days	NA	NA	April 9, 2022	May 14, 2022	June 29, 2022	August 1, 2022	0% 0 days	0.5 days	65 days		RC Structure
	Lift installation (LT1 & LT2)	90 days	90 days	NA	NA	July 27, 2022	November 11, 2022	October 14, 2022	January 31, 2023	0% 0 days	1 day	65 days		Lift installation (LT1 &
	E & M installation	60 days	, .	NA	NA	November 12, 2022	January 25, 2023	February 1, 2023	April 15, 2023	0% 0 days	1 day	65 days		E & M installation
_	Testing & commissioning	12 days		NA	NA	January 26, 2023	February 8, 2023	April 17, 2023	April 29, 2023	0% 0 days		65 days	i l	Testing & commi
_	CLP Meter Installation	0 days	,-	NA	NA	January 2, 2023	January 2, 2023	January 2, 2023	January 2, 2023	0% 0 days		0 days		CLP Meter Installat
_	EMSD Submission Form 5 for Lift Inspection	0 days	/ -	NA	NA		February 8, 2023	May 2, 2023	May 2, 2023	0% 0 days		82 days	i l	EMSD Submissio
_	EMSD Lift Inspection	0 days	1 11/1	NA	NA	February 22, 2023	February 22, 2023	May 16, 2023	May 16, 2023	0% 0 days		82 days		EMSD Lift Inspe
	Issuance of Lift Use Permit	0 days	/ -	NA	NA	March 9, 2023	March 9, 2023	May 30, 2023	May 30, 2023	0% 82 day		82 days	i l	Staircase ST1
_	Staircase ST1 Den Space & Promenade	60 days 561 days		NA NA	NA NA	May 16, 2022 July 13, 2021	July 26, 2022 May 30, 2023	August 2, 2022 October 7, 2021	October 13, 2022 May 30, 2023	0% 0 days	1 day	65 days 0 days	i l	Open Spa
	Open Space & Promenade (From Northern End - CH1720)	506 days		NA	NA NA	September 15,	May 30, 2023	October 11, 2021	May 30, 2023	0% 0 days		0 days	i l	Open Spa
7	open space a rismendae (rism normen in	see aays	500 44,0			2021	, 50, 2025	000000: 12, 2021	, 50, 2025	o, c		o aays	i l	
	Observation Deck	210 days	210 days	NA	NA	June 4, 2022	February 13, 2023	June 4, 2022	May 30, 2023	0% 0 days		0 days	i l	Observation Dec
	Foundation Construction	60 days	, .	NA	NA	June 4, 2022	August 13, 2022	June 4, 2022	August 13, 2022		3 days	0 days	i l	Foundation Construction
	Structure work	60 days		NA	NA	August 15, 2022	October 26, 2022	September 26, 2022	· ·			35 days	i	Structure work
	Construction of Lift Core	35 days		NA	NA	August 15, 2022	September 25, 202	-	September 26, 202	· ·		0 days	i l	Construction of Lift Core Lift installation
	Lift installation	90 days		NA NA	NA NA	October 27, 2022	February 13, 2023	September 26, 2022	May 30, 2023		s 1 day	85 days	i l	E&M and ABWF work
	E&M and ABWF works Toilet	60 days 366 days		NA NA	NA NA	September 15, 20			December 6, 2022			0 days 0 days	i l	Toilet
	Footing	12 days		NA	NA NA	September 15, 2021		,	October 25, 2021		0 days	20 days	i l	Footing
	Structure work	45 days		NA	NA	September 30, 2021		,	December 16, 2021				i l	Structure work
	MIC toilet unit	24 days		NA	NA			December 17, 2021			0.5 days		i l	MIC toilet unit
	E&M and ABWF works	60 days	· ·	NA	NA			September 26, 2022			3 days	0 days	i l	E&M and ABWF work
	Amphitheater	90 days	90 days	NA	NA	November 24, 2021	March 15, 2022	October 15, 2022	February 1, 2023	0% 264 da	ys 1 day	264 days	i l	Amphit eater
	Fast food kiosk deck	45 days	45 days	NA	NA	November 24, 2021	January 18, 2022	January 26, 2022	March 22, 2022	0% 0 days	0.5 days	51 days	Í	Fast food kipsk deck
	Fast food Kiosk	86 days	86 days	NA	NA	January 19, 2022	May 6, 2022	March 23, 2022	July 7, 2022	0% 0 days	1 day	51 days	i l	Fast lood Ki <mark>o</mark> sk
	Fitness Ground Lawn & Water Play Plaza	82 days	82 days	NA	NA	May 7, 2022	August 12, 2022	July 8, 2022	October 14, 2022	0% 31 day	s 1 day	51 days		Fitness Ground Lawn & Wat
	Stepped Stage and Seating & Back of House Facility	30 days	30 days	NA	NA	August 15, 2022	September 19, 2022	2 September 7, 2022	October 14, 2022	0% 0 days	0.5 days	20 days	i l	Stepped \$tage and Seating
	(under Bridge D3) Trim and form formation level within Open Space &	45 days	45 days	NA	NA	September 20, 2022	November 12 2022	October 15 2022	December 6, 2022	0% 20 day	s 0.5 days	20 days		Trim and form formati
	Promenade area	+5 days	-5 days		1473	Jeptember 20, 2022		. 5000001 13, 2022	2002Z	20 udy	5 0.5 uays	20 days	i l	
	Paving work	45 days	45 days	NA	NA	December 7, 2022	February 1, 2023	December 7, 2022	February 1, 2023	0% 0 days	2 days	0 days	i I	Paving work
	ABWF, E&M work and street furniture	60 days	60 days	NA	NA	February 2, 2023	April 17, 2023	March 12, 2023	May 27, 2023	0% 0 days	1 day	33 days		ABWF, E&M
	FSD Form 501 Submission for FS Inspection	0 days		NA	NA	March 23, 2023	March 23, 2023	May 1, 2023	May 1, 2023	0% 0 days		38 days	1	FSD Form 501
	FSD Inspection	0 days	- '	NA	NA	April 7, 2023	April 7, 2023	May 16, 2023	May 16, 2023	0% 0 days		38 days		\$ FSD Inspection
	Issuance of FS Certificate	0 days	- '	NA	NA	April 22, 2023	April 22, 2023	May 30, 2023	May 30, 2023	0% 38 day		38 days		Issuance of
	Landscaping works	95 days		NA	NA		May 30, 2023	February 2, 2023	May 30, 2023	0% 0 days		0 days	í l	Landscapi
	Open Space & Promenade (From CH1720 - South End)	447 days	447 days	NA	NA	July 13, 2021	January 6, 2023	October 7, 2021	May 30, 2023	0% 72 day	S	72 days		Open Space & Pro
	Modification (Seawall) CH1720-1820	150 days	150 days	NA	NA	July 13, 2021	January 10, 2022	October 7, 2021	April 8, 2022	0% 0 days	1 day	72 days		Modification (Seawall) CH1720-1820
	Modification (Seawall) CH1820-1920	150 days	150 days	NA	NA	July 13, 2021	January 10, 2022	October 7, 2021	April 8, 2022		1 day	72 days	í l	Modification (Seawall) CH1820-1920
	Temporary toilet	24 days	24 days	NA	NA	July 13, 2021	August 9, 2021	January 31, 2022	March 2, 2022		0.5 days	167 days		Temporary toilet
	Temporary Management Office	45 days	45 days	NA	NA	July 24, 2021	September 14, 202	1 February 15, 2022	April 8, 2022	0% 95 day	s 0.5 days	167 days		Temporary Management Office
	Floating Stage Concrete structure	18 days	18 days	NA	NA	January 11, 2022	January 31, 2022	April 9, 2022	May 3, 2022	0% 0 days	0 days	72 days	i	Floating Stage Concrete structure
'	Stepped Seating at Southern End	24 days	24 days	NA	NA	February 4, 2022	March 3, 2022	May 4, 2022	May 31, 2022	0% 0 days	0.5 days	72 days		Stepped Seating at Southern End
vised Pro	ogramme- Critical Task		Ma	anual Task	Duration	n-only	Baseline Milestone	Sumi	mary	External Tas	cs		nactive Milestone Baseline Summary	у
2018/01	1 with Progress Critical Split Split		Sta		Baseline	,	■ Milestone		ual Summary	External Mil			nactive Summary	
	of 22-Sep-19 Critical Brogress Tack Brog													

Task	22092019_Revised Programme with Progress Update as of 22-Sep-19		
	Duration Remaining Actual Start Actual Finish Plan Start Plan Finish Late Start Late Finish Physical Free Time Risk Total Duration Slack Allowances Slack S	2022 2023 H2	2024
	Space & 14 days 14 days NA NA March 4, 2022 March 19, 2022 June 1, 2022 June 17, 2022 0% 0 days 72 days September 22 June 17, 2022 0% 0 days 72 days	Trim and form formation le	evel within Open
	30 days 30 days NA NA March 21, 2022 April 28, 2022 June 18, 2022 July 23, 2022 0% 0 days 0.5 days 72 days	Paving work	
	50 days 50 days NA NA April 29, 2022 June 27, 2022 July 28, 2022 September 24, 2022 0% 0 days 1 day 75 days	ABWF, E&M work and	d street furniture
	0 days NA NA June 27, 2022 June 27, 2022 May 1, 2023 May 1, 2023 0% 163 days 307 days	CLP Meter Installatio	on
	0 days	FSD Form !	501 Submission f
	0 days NA NA December 22, 2022 December 22, 2022 May 16, 2023 May 16, 2023 0% 0 days 144 days	FSD Inspe	ection
	0 days	↓ Issuance	of FS Certificate
	90 days 90 days NA NA August 20, 2022 December 6, 2022 November 16, 2022 March 4, 2023 0% 72 days 1 day 72 days	Landscapin	g works
+	238 days 238 days NA NA August 11, 2022 May 30, 2023 October 6, 2022 May 30, 2023 0% 0 days		Part 1, 2A, 2B -
-	3 days NA NA August 11, 2022 August 13, 2022 October 6, 2022 October 8, 2022 O% 0 days 1 day 45 days	Trim road formation	
	7 days	Lay sub base	
		Lay kerb	
		Construct pedes	strian street/ fo
	14 days 14 days NA NA September 6, 2022 September 1, 2022 November 16, 2022 0% 0 days 1 day 45 days	- -	
	14 days 14 days NA NA September 23, 2022 October 11, 2022 November 17, 2022 December 2, 2022 0% 0 days 1 day 45 days	Install central r	
	7 days 7 days NA NA October 12, 2022 October 19, 2022 December 3, 2022 December 10, 2022 0% 45 days 0 days 45 days	_ Concrete infill	•
	5 days	Road pave	
	131 days 131 days NA NA December 17, 2022 May 30, 2023 December 17, 2022 May 30, 2023 0% 0 days 6 days 0 days		Install street fur
	0 days		Planned Compl
Se	365 days 365 days NA NA March 6, 2023 May 29, 2024 March 6, 2023 May 29, 2024 0% 0 days 0 days		
	365 days 365 days NA NA March 6, 2023 May 29, 2024 March 6, 2023 May 29, 2024 0% 0 days 10 days 0 days		
	0 days		
Se	152 days 152 days NA NA May 26, 2021 November 24, 2021 June 3, 2021 December 2, 2021 0% 7 days 7 days	Section 8 (Subject to Excision)	
	33 days 33 days NA NA May 26, 2021 July 5, 2021 June 25, 2021 August 3, 2021 0% 0 days 25 days	art 1 - DCS Intake Box Culvert - CHB. 0-5	(5m)
	18 days 18 days NA NA May 26, 2021 June 16, 2021 June 25, 2021 July 16, 2021 0% 0 days 2 days 25 days	mporary ELS & Excavation	
		sitioning of precast intake	
		emove struts and backfilling	
	ulvert 152 days 152 days NA NA May 26, 2021 November 24, 2021 June 3, 2021 December 2, 2021 0% 7 days 7 days	Part 2A - Diversion & abandon of	exta DCS box
		ITA,Temporary ELS & Excavation	
		Diversion of existing DCS box culvert	
		Break up existing box culvert (4 walls	s) + ton slah
	b 35 days 35 days NA NA August 26, 2021 October 7, 2021 September 3, 2021 October 16, 2021 0% 0 days 2 days 7 days	break up existing box curvert (4 wars	s) · top slab
	20 days 20 days NA NA October 8, 2021 November 1, 2021 October 18, 2021 November 9, 2021 0% 0 days 1 days 7 days	Construct new walls at existing box	culvert
	20 days	Abandon existing DCS box culvert	İ
	0 days	Planned Completion for Section 8	3
Se		ection 9 (Subject to Excision)	
		oise barrier fronting to 4B5 at Rd D3A &	Bus Lav Bv ~80
	18 days NA NA November 21, 2020 December 11, 2020 November 30, 2020 December 19, 2020 0% 0 days 1 days 7 days		, ,
		rrier Foundation	
		ame & Panel installation (Night Work)	
		lanned Completion for Section 9	
Se	582 days 582 days NA NA June 5, 2021 May 18, 2023 June 17, 2021 May 30, 2023 0% 9 days 9 days	•	Section 10 (Sub
	581 days 581 days NA NA June 5, 2021 May 17, 2023 June 17, 2021 May 29, 2023 0% 9 days 9 days	-	Decking for Und
	225 days	Support along U-through	
	123 days 123 days NA NA March 8, 2022 August 4, 2022 March 18, 2022 O% 0 days 6 days 9 days	Plinth installation a	
	90 days		beam along un
	115 days 115 days NA NA December 24, 2022 May 17, 2023 January 5, 2023 May 29, 2023 0% 0 days 5 days 9 days	<u>*</u> C	over-up (Roof)
	1 day 1 day NA NA May 18, 2023 May 18, 2023 May 30, 2023 May 30, 2023 0% 0 days 0.5 days 12 days	≱ p	

Summary External Tasks Inactive Milestone ♦
Manual Summary External Milestone ♦ Inactive Summary

Project Summary Inactive Task

Inactive Summary

Deadline

Baseline Summary

Title: Revised ProgrammeED/2018/01 with Progress
Update as of 22-Sep-19

Critical Split
Split
Split
Split
Start-only
Baseline Milestone ♦

Milestone
Milestone
Summary Progress
Finish-only
Baseline Split
Summary Progress

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 April 2020

April 2020

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

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 May 2020

May 2020

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

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

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

Appendix D – Photographic records

Impact Air Quality Monitoring



Measurement setup at AM3



Measurement setup at AM4(A)

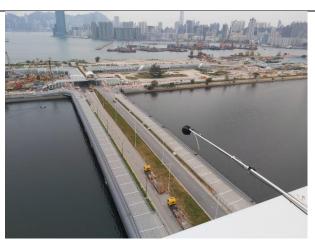


Measurement setup at AM7

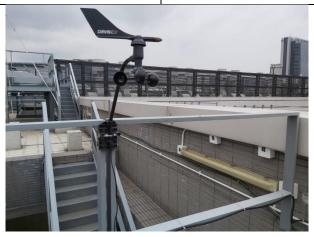
Impact Noise Monitoring



Measurement setup at M11



Measurement setup at M12



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

 $\begin{tabular}{lll} Appendix & E & - & Calibration & certificates, & catalogue & of & air & quality \\ monitoring equipment & & & & \\ \end{tabular}$

Catalogue of High Volume Sampler (HVS)



The TE-5170 is a high volume ambient Total Suspended Particulate (TSP) air sampler featuring a mass flow controller (MFC) for accurate and consistent particulate sampling. The mass flow controller adjust the motor speed as the filter media collects particulate to maintain a constant flow rate throughout the entire sample duration. The system utilizes a stainless steel filter holder for use with standard 8" x 10" filter paper. The anodized aluminum shelter and robust electrical components allow the system to operate a continuous 24 hour sample.

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

- Total Suspended Particulate(TSP)
- Mass Flow Controlled
- 7-Day Mechanical Timer
- Flapsed Time Indicator
- Aluminum Outdoor Shelter
- Brush Style Motor
- Dickson Chart Recorder, 24 Hour
- Stainless Steel Filter Holder
- 36-60 CFM
- Made In USA

www.tisch-env.com



TSP MFC

MFC TSP Ambient Air Sampler

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

Motor Style: Brush Style Motor Assembly Pressure Recorder: Dickson Chart Recorder, 24 hour

Timer: 7 Day Mechanical

Elapsed Time Indicator: Mechanical, Hours and Tenths

Flow Range: 39-60CFM, 1.09M³M-1.68M³M

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

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

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

Institutional Studies Construction Sites

Bridge and Water Tower Painting Sites

Fence Line Monitoring Industrial Monitoring Landfill Monitoring

Public Health Applications

TE-3000 Filter Holder Cartridge

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

TE-33378 Motor Brush Set (220volt)

TE-116311 Replacement Motor (110volt)

TE-116312 Replacement Motor (220volt) TE-106 Recorder Charts

TE-160 Recorder Pen Points

TE-5018 Gasket 8" x 10"

TE-5028 -Variable Flow Calibration Kit

TE-5170 TSP MFC, 110 Volt 60 Hertz, 8 Amps

TE-5170X TSP MFC, 220 Volt 50 Hertz 4 Amps

TE-5170XZ TSP MFC, 220 Volts 60 Hertz, 4 Amps

TE-HVC-V Xcalibrator HiVol Calibrator

Weight: 75lbs, Shelter

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

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





Calibration Certificate of HVS

Air Sampler Calibration Curve Plotting & Calculation (Dickson recorder)

Calibration curve ref. No. :	ATSPC-01-2020031402	Date of calibration :	14/03/2020
Location :	Sky Tower	Sampler :	TE-5170X

Calibration Data

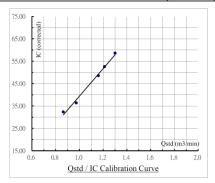
Ambient barometric	pressure, Pa =	764.4	(mmHg)	Ambient temperature,	Ta=	293.65	(deg K)
Ostd Slope, m =	2.03067			Ostd Intercept, b =	-0.00	7660	

Calibration Curve

Plate No.	H ₂ O	Qstd	I	IC
Flate No.	(in)	(m^3/min)	(chart)	(corrected)
18	6.80	1.301	58.0	58.60
13	5.90	1.212	52.0	52.53
10	5.40	1.160	48.0	48.49
7	3.80	0.974	36.0	36.37
5	3.00	0.865	32.0	32.33

Subsequent calculation of sampler flow

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r	
Dickson recorder	Qstd = 1 / m1 [(I) (Sqrt ((Pav / 760) (298 / Tav))) - b1]	61.459	-22.0884	0.9953	



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

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

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

Calibrated by Checked by (Chan Kwok Ho Name: Wong Yin Tong

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

Air Sampler Calibration Curve Plotting & Calculation

(Dickson recorder)

Qstd Intercept, b =

-0.007660

Calibration curve ref. No. :		ATSPC-01-2020031401		Date of calibration : Sampler :	14/03/2020	
		ong Society for the Blind's m Sheltered Workshop			TE-5170X	
Calibration D	<u>ata</u>			-		
Ambient baro	metric pressure,	Pa = 764.4	(mmHg)	Ambient temperature, Ta	= 293.65	(deg K)

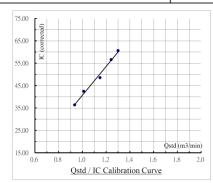
Qstd Slope, m = Calibration Curve

emioration emire				
Plate No.	H ₂ O	Qstd	I	IC
	(in)	(m ³ / min)	(chart)	(corrected)
18	6.80	1.301	60.0	60.62
13	6.20	1.243	56.0	56.58
10	5.30	1.149	48.0	48.49
7	4.10	1.011	42.0	42.43
5	3.50	0.935	36.0	36.37

Subsequent calculation of sampler flow

2.03067

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r
Dickson recorder	Qstd = 1 / m1 [(I) (Sqrt ((Pav / 760) (298 / Tav))) - b1]	64.289	-23.6072	0.9941



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

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

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

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

Calibrated by Checked by: Name: (Chan Kwok Ho Name: Wong Yin Tong) Form No. INS-HVS-CAL dd 16 01 2020

Calibration Certificate of HVS

Air Sampler Calibration Curve Plotting & Calculation

(Dickson recorder)

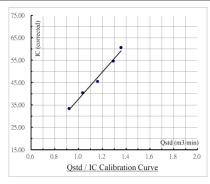
Calibration curv	re ref. No. :	ATSPC-01-202	20031403	Date of calibration :	14/03/2020	
Location:	Hong Kong (Children's Hos	pital	Sampler :	TE-5170X	
Calibration Date	<u>ta</u>					
Ambient barome	etric pressure, Pa	764.4	(mmHg)	Ambient temperature, Ta =	293.65	(deg K)
Qstd Slope, m =	2.03067			Qstd Intercept, b = -0.0	007660	

Calibration Curve

emiliori emire				
Plate No.	H ₂ O	Qstd	I	IC
Flate No.	(in)	(m ³ / min)	(chart)	(corrected)
18	7.40	1.357	60.0	60.62
13	6.70	1.292	54.0	54.55
10	5.40	1.160	45.0	45.46
7	4.30	1.035	40.0	40.41
5	3.40	0.921	33.0	33.34

Subsequent calculation of sampler flow

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r	
Dickson recorder	Qstd = 1 / m1 [(I) (Sqrt ((Pav / 760) (298 / Tav))) - b1]	60.310	-22.6609	0.9930	



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

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

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

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

Calibration Certificate for Calibrator RECALIBRATION DUE DATE: July 25, 2020 Calibration Certification Information Cal. Date: July 25, 2019 Rootsmeter S/N: 438320 Ta: 297 Operator: Jim Tisch Pa: 755.7 mm Hg Calibrator S/N: 0006 Calibration Model #: TE-5025A Vol. Init Vol. Final ΔΡ ΔΗ ΔVol. ΔTime (m3)(m3)(m3) (min) mm Hg) (in H2O) 1.4200 2.00 1.0040 4.00 0.8960 5.00 0.8480 5.50 0.7040 12.7 8.00 Data Tabulation $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ ΔH(Ta/Pa) Vstd Ostd Qa (m3) (x-axis) (y-axis) (x-axis) 0.9958 0.7012 0.8866 0.9934 0.6996 0.9893 0.9854 1.9976 0.9917 0.9877 0.9872 1.1018 2.2334 0.9895 1.1044 1.4019 0.9860 1.1627 2.3424 0.9884 1.1655 1.3933 2.8251 0.9832 1.7732 0.9809 1.3966 2.03067 m= 1.27157 QSTD b= -0.00766 QA -0.00481 0.99992 r= 0.99992 Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta) Va= ΔVol((Pa-ΔP)/Pa) Qa= Va/\Dalime For subsequent flow rate calculations: Qstd= $1/m\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)$ Qa= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$ Standard Conditions Tstd: 298.15 °K RECALIBRATION Pstd: 760 mm Hg US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, ΔH: calibrator manometer reading (in H2O) ΔP: rootsmeter manometer reading (mm Hg Ta: actual absolute temperature (°K) Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in Pa: actual barometric pressure (mm Hg the Atmosphere, 9.2.17, page 30 m: slope sch Environmental, Inc. www.tisch-env.com 45 South Miami Avenue TOLL FREE: (877)263-7610 illage 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

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

Quick and Easy Reports

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

Power to Spare

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

Model AM510 SidePak Personal Aerosol Monitor

Sensitivity

90° light scattering, Sensor Type 670 nm laser diode Aerosol 0.001 to 20 mg/m3 Concentration Range (calibrated to respirable fraction of ISO 12103-1,

A1 test dust) Particle Size Range 0.1 to 10 micrometer (µm)

Minimum Resolution 0.001 mg/m³

Zero stability ±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)

Flow Rate

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

Temperature Range

32 to 120°F (0 to 50°C)

Storage Range -4 to 140°F (-20 to 60°C)

Operational Humidity

0 to 95% RH, non-condensing

Time Constant (LCD display)

ser-adjustable, 1 to 60 seconds

Data Logging

External Dimensions

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

User-Select Calibration Factors

1.0 (non-adjustable) User-defined Settings 3, with user-defined labels

0.1 to 10.0, user-adjustable Physical

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

Weight 16 oz (0.46 kg) with 801723, 801724, 801729 or 801743 battery

19 oz (0.54 kg) with 801708, 01722, 801728, 801735, or 801736 battery

Display Tripod Socket 2 line x 12 character LCD 1/4-20 female thread

Power Supply/Charger (P/N 2613210) Input Voltage Range 100 to 240 VAC, 50 to 60 Hz Input Voltage Range Output Voltage 9 VDC @ 1.0 A

Maintenance

Factory Clean/Calibrate 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 Communications Port Universal Serial Bus (USB)

v 1.1 or higher

Microsoft Windows® XP, or 7 Operating System (32-bit or 64-bit) operating systems

Battery Performance

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

*Of a fully depleted battery

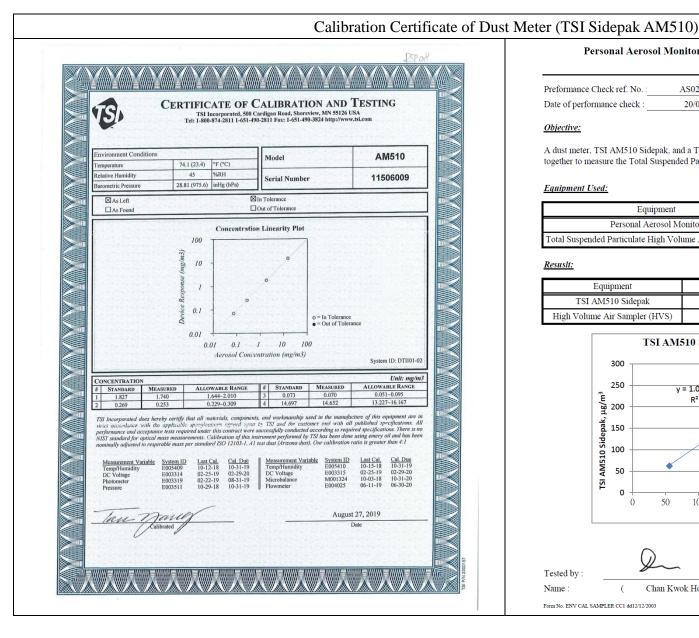
**All dust plugs and dust gaskets must be installed.

***Using Energizer AA-size, E91 alkaline batteries.

Battery Level Indicator

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





Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No. AS0200201-1 Report Issue Date: 29/01/2020 Date of performance check: 20/01/2020

Objective:

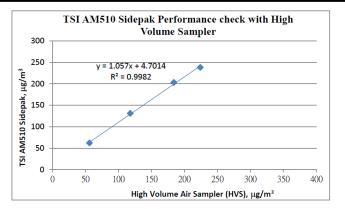
A dust meter, TSI AM510 Sidepak, and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

Equipment Used:

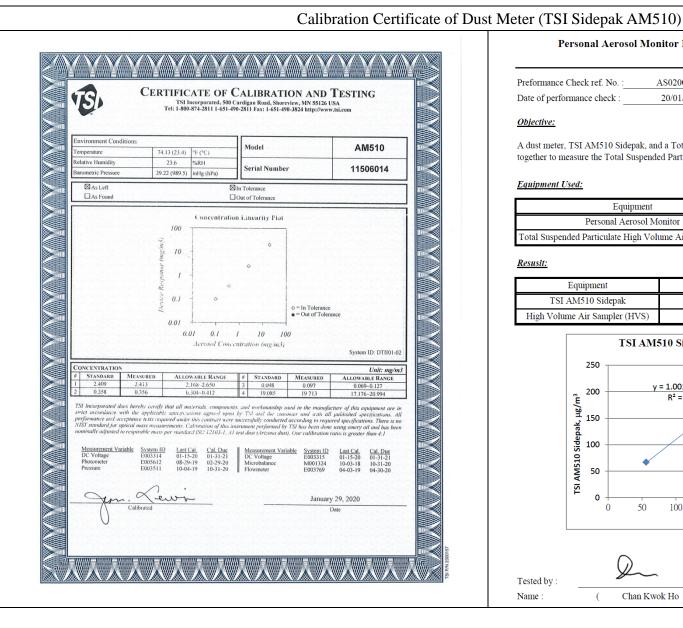
Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11506009
Total Suspended Particulate High Volume Air Sampler (HVS)	GS2310	10346

Resustt:

Equipment		Measurement		
TSI AM510 Sidepak	62	131	203	238
High Volume Air Sampler (HVS)	56	118	184	224



Tested by :	Q			Checked by:	1		
Name:	(Chan Kwok Ho)	Name :	(Wong Yin Tong)
F No ENDICAL CAN	DI ED CC1 441	2/12/2002					



Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No.: AS0200201-2 27/01/2020 Report Issue Date: Date of performance check: 20/01/2020

Objective:

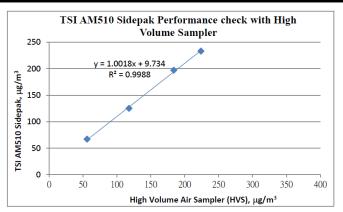
A dust meter, TSI AM510 Sidepak, and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

Equipment Used:

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

Resustt:

Equipment	Measurement Result, μg/m³			
TSI AM510 Sidepak	67	125	197	233
High Volume Air Sampler (HVS)	56	118	184	224



				\sim				
Tested by :				Checked by:				
Name :	(Chan Kwok Ho)	Name :	(Wong Yin Tong)	

Catalogue of Weather Station

Cabled Vantage Pro2™ & Vantage Pro2 Plus™ Stations



6152C 6162C

Vantage Pro2[™]

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 Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are powered by an AC-power adapter connected to the console. Batteries can be installed in the console to provide a backup power supply. Use WeatherLink® to let your weather station interface with a computer, log data, and upload weather information to the Internet. The 6152C and 6162C models rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings.

Integrated Sensor Suite (ISS)

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

Maximum displayable wind decreases as the length of cable increases. at 140' (42 m) of cable, the maximum wind speed displayed is 135 mph (60 m/s); at 240' (73 m), the maximum wind speed displayed is 100 mph (34 m/s).

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

ISS Dimensions(not including anemometer or bird spikes):

Vantage Pro2 with Standard Rad Shield 14.0" x 9.4" x 14.5" (356 mm x 239 mm x 368 mm) Vantage Pro2 with Fan-Asprated Rad Shield............ 20.8" x 9.4" x 16.0" (528 mm x 239 mm x 406 mm) Vantage Pro2 Plus with Fan-Aspirated Rad Shield 21.1" x 9.7" x 16.0" (536 mm x 246 mm x 406 mm)



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

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

Vantage Pro2

0.1 Index
0 to 16 Index
$\pm 5\%$ of full scale (Reference: Yankee UVB-1 at UV index 10 (Extremely High))
±4% FS (0° to 90° zenith angle)
50 seconds to 1 minute (5 minutes when dark)
Instant Reading and Hourly Average; Daily, Monthly High
Hourly Average, Daily, Monthly Highs
High Threshold from Instant Calculation
·
$1^{\circ}F$ or $1^{\circ}C$ (user-selectable); $^{\circ}C$ is converted from $^{\circ}F$ and rounded to the nearest $1^{\circ}C$
-110° to +135°F (-79° to +57°C)
±2°F (±1°C) (typical)
10 to 12 seconds
United States National Weather Service (NWS)/NOAA
Osczevski (1995) (adopted by US NWS in 2001)
Instant Outside Temperature and 10-min. Avg. Wind Speed Instant Calculation
Instant Calculation; Hourly, Daily and Monthly Low
Hourly, Daily and Monthly Lows
Low Threshold from Instant Calculation
1 - 360°
16 points (22.5°) on compass rose, 1° in numeric display
±3°
2.5 to 3 seconds
Instant Reading (user adjustable); 10-min. Dominant; Hourly, Daily, Monthly Dominant
Past 6 10-min. Dominants on compass rose only; Hourly, Daily, Monthly Dominants
1 mph, 1 km/h, 0.4 m/s, or 1 knot (user-selectable) Measured in mph; other units are converted from mph and rounded to nearest 1 km/hr, 0.1 m/s, or 1 knot.
0 to 200 mph, 0 to 173 knots, 0 to 89 m/s, 0 to 322 km/h
Instant Reading: 2.5 to 3 seconds, 10-minute Average: 1 minute
±2 mph (2 kts, 3.2 km/h, 0.9 m/s) or ±5%, whichever is greater
540' (165 m) (Note that maximum wind speed reading decreases as length of cable from anemometer to ISS increases.)

Current Graph Data Instant Reading; 10-minute and Hourly Average; Hourly High; Daily,

Highs with Direction of Highs

Monthly and Yearly High with Direction of High

. 10-min. and Hourly Averages; Hourly Highs; Daily, Monthly and Yearly

High Thresholds from Instant Reading and 10-minute Average

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

Current Display Data Instant

Historical Graph Data....

Calibration Certificate of Weather Station



Calibration Certificate

Certificate No.: CC0202001

Calibration item :	a) Wind Speed b) Wind Direction
Equipment description :	Weather Station
Manufacturer :	Davis Vantage Pro 2
Type / Model No. :	6152CEU
Serial No. :	AZ170710016
Assigned equipment no.:	N/A 6 6
Adjustment :	N/AD/LE D/LE D/LE
Remark :	Received with good condition

2. Customer information

Customer:	Castco Testing Centre Limited
Address :	33, On Kui Street, Fanling, N.T.
Date of receipt :	29 January 2020

3. Date of performance of the calibration

Date of calibration : 31 January 2020

Warren Yeung / JUMW

Company Chop: Certificate issue date: 3 February 2020

1. The certificate shall not reproduced except in full without the written approval of CAL LAB LTD

CT-BEG-02

2. The certificate is issued subject to the latest Term and Condition, available assessable at our web site

Cal Lab Limited

Address: Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong Tel: (852)25680106 Fax(852)30116194 Email: info@callab.com.hk Website:callab.com.hk



4. Result of Calibration

a) Wind Speed

Reference reading; m/s	Measured reading; m/s	Error of indication; %
0.0	0.0	N/A
2.0	1.9	-5.0
5.0	4.8	-4.0
10.0	9.9	-1.0
15.0	14.8	-1.3
20.0	19.8	-1.0

Estimated expanded uncertainty: 0.5 m/s

Technical Requirement: +/-5% or 1 m/s

Reference reading	Measured reading	Error of indication
00	00	O°
45°	45°	0° 0
90°	900	Oo /
135°	135°	O°
180°	180°	O°
225° A	225°	_ 0°
270°	270°	00
315°	315°	O°

Estimated expanded uncertainty: 5°

Note: The arrow head was adjusted to the magnetic north before performing calibration.

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Page 2 of 3 cc0202001

Cal Lab Limited

Address: Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong Tel: (852)25680106 Fax(852)30116194 Email: info@callab.com.hk Website:callab.com.hk



Appendix F – Weather information

General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/04/2020	18.9	21.3	0.2
02/04/2020	19.3	20.7	0.4
03/04/2020	19.4	21.3	0.6
04/04/2020	19.7	24.1	1.1
05/04/2020	16.9	19.9	4.6
06/04/2020	16.1	17.9	21.5
07/04/2020	17.2	21.1	Trace
08/04/2020	18.7	24.0	0.0
09/04/2020	18.8	25.6	0.0
10/04/2020	19.9	24.6	0.0
11/04/2020	20.5	24.3	20.5
12/04/2020	18.1	25.6	0.4
13/04/2020	16.4	25.4	0.0
14/04/2020	19.6	24.1	0.0
15/04/2020	19.0	25.9	0.0
16/04/2020	20.0	28.3	0.0
17/04/2020	22.0	28.3	0.0
18/04/2020	22.4	27.8	Trace
19/04/2020	23.7	30.0	0.0
20/04/2020	24.6	29.4	0.0
21/04/2020	24.9	30.0	0.0
22/04/2020	19.4	25.7	25.8
23/04/2020	19.4	21.7	1.3
24/04/2020	18.1	21.4	0.6
25/04/2020	18.4	22.7	0.1
26/04/2020	19.9	27.8	0.7
27/04/2020	21.6	28.5	0.0
28/04/2020	22.4	27.9	0.0
29/04/2020	21.7	28.5	0.0
30/04/2020	22.2	30.3	0.0

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

NOTE2: Trace means rainfall less than 0.05 mm

 $\underline{https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2020\&m=4}$

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
1/4/2020	0:00	0.4	0	2/4/2020	0:00	2.2	0	3/4/2020	0:00	1.8	45	4/4/2020	0:00	0.9	0
1/4/2020	1:00	0.4	337.5	2/4/2020	1:00	1.8	22.5	3/4/2020	1:00	1.8	135	4/4/2020	1:00	0.4	0
1/4/2020	2:00	0.4	0	2/4/2020	2:00	2.2	67.5	3/4/2020	2:00	1.3	0	4/4/2020	2:00	0.9	315
1/4/2020	3:00	0.4	0	2/4/2020	3:00	2.2	0	3/4/2020	3:00	1.3	0	4/4/2020	3:00	0.9	315
1/4/2020	4:00	0.4	315	2/4/2020	4:00	2.2	0	3/4/2020	4:00	1.3	315	4/4/2020	4:00	1.3	45
1/4/2020	5:00	0.4	112.5	2/4/2020	5:00	2.2	0	3/4/2020	5:00	0.9	337.5	4/4/2020	5:00	0.9	45
1/4/2020	6:00	0.4	0	2/4/2020	6:00	1.3	0	3/4/2020	6:00	1.8	45	4/4/2020	6:00	1.3	45
1/4/2020	7:00	0	135	2/4/2020	7:00	1.3	90	3/4/2020	7:00	1.3	45	4/4/2020	7:00	1.3	45
1/4/2020	8:00	0	67.5	2/4/2020	8:00	1.3	90	3/4/2020	8:00	1.3	45	4/4/2020	8:00	0.9	112.5
1/4/2020	9:00	0.4	0	2/4/2020	9:00	1.8	112.5	3/4/2020	9:00	0.9	90	4/4/2020	9:00	1.3	45
1/4/2020	10:00	0.4	67.5	2/4/2020	10:00	1.8	90	3/4/2020	10:00	1.8	67.5	4/4/2020	10:00	1.3	12.5
1/4/2020	11:00	0	180	2/4/2020	11:00	1.3	90	3/4/2020	11:00	0.4	45	4/4/2020	11:00	0.9	112.5
1/4/2020	12:00	0	315	2/4/2020	12:00	0.9	112.5	3/4/2020	12:00	0.9	67.5	4/4/2020	12:00	0.4	45
1/4/2020	13:00	0	270	2/4/2020	13:00	0.9	112.5	3/4/2020	13:00	0.9	67.5	4/4/2020	13:00	0.9	45
1/4/2020	14:00	0	112.5	2/4/2020	14:00	1.8	90	3/4/2020	14:00	0.4	45	4/4/2020	14:00	0.9	E45
1/4/2020	15:00	0	112.5	2/4/2020	15:00	1.3	67.5	3/4/2020	15:00	1.3	45	4/4/2020	15:00	1.3	90
1/4/2020	16:00	0.4	90	2/4/2020	16:00	1.3	90	3/4/2020	16:00	1.8	22.5	4/4/2020	16:00	1.8	22.5
1/4/2020	17:00	0.4	135	2/4/2020	17:00	1.3	112.5	3/4/2020	17:00	1.8	45	4/4/2020	17:00	1.8	90
1/4/2020	18:00	0.4	135	2/4/2020	18:00	0.9	112.5	3/4/2020	18:00	1.3	67.5	4/4/2020	18:00	1.3	90
1/4/2020	19:00	0.4	135	2/4/2020	19:00	0.9	112.5	3/4/2020	19:00	1.3	67.5	4/4/2020	19:00	0.4	22.5
1/4/2020	20:00	0.4	112.5	2/4/2020	20:00	1.8	112.5	3/4/2020	20:00	1.3	67.5	4/4/2020	20:00	0.9	67.5
1/4/2020	21:00	0.4	112.5	2/4/2020	21:00	1.3	112.5	3/4/2020	21:00	1.3	0	4/4/2020	21:00	0.9	90
1/4/2020	22:00	0	112.5	2/4/2020	22:00	1.3	112.5	3/4/2020	22:00	1.3	0	4/4/2020	22:00	0.4	22.5
1/4/2020	23:00	0.4	112.5	2/4/2020	23:00	0.9	112.5	3/4/2020	23:00	1.3	0	4/4/2020	23:00	0.4	90

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
5/4/2020	0:00	0.4	112.5	6/4/2020	0:00	1.3	112.5	7/4/2020	0:00	0.4	0	8/4/2020	0:00	0.4	112.5
5/4/2020	1:00	0.4	112.5	6/4/2020	1:00	1.8	112.5	7/4/2020	1:00	0.4	0	8/4/2020	1:00	0.9	112.5
5/4/2020	2:00	0.9	112.5	6/4/2020	2:00	0.4	112.5	7/4/2020	2:00	0.4	315	8/4/2020	2:00	0.9	337.5
5/4/2020	3:00	0.9	112.5	6/4/2020	3:00	0.4	247.5	7/4/2020	3:00	0.4	315	8/4/2020	3:00	1.3	90
5/4/2020	4:00	0.4	112.5	6/4/2020	4:00	0.4	247.5	7/4/2020	4:00	0	315	8/4/2020	4:00	1.3	67.5
5/4/2020	5:00	0.4	112.5	6/4/2020	5:00	0.4	315	7/4/2020	5:00	0.4	112.5	8/4/2020	5:00	1.3	45
5/4/2020	6:00	0.4	112.5	6/4/2020	6:00	0.9	315	7/4/2020	6:00	0.4	112.5	8/4/2020	6:00	0.9	45
5/4/2020	7:00	0.9	112.5	6/4/2020	7:00	0.9	247.5	7/4/2020	7:00	0.4	0	8/4/2020	7:00	1.3	90
5/4/2020	8:00	0.4	112.5	6/4/2020	8:00	0.4	270	7/4/2020	8:00	0.4	22.5	8/4/2020	8:00	0.9	45
5/4/2020	9:00	0.4	112.5	6/4/2020	9:00	0.4	225	7/4/2020	9:00	0.4	22.5	8/4/2020	9:00	1.3	22.5
5/4/2020	10:00	0.4	135	6/4/2020	10:00	0.9	247.5	7/4/2020	10:00	1.3	0	8/4/2020	10:00	0.9	135
5/4/2020	11:00	0.4	135	6/4/2020	11:00	0.4	67.5	7/4/2020	11:00	1.3	112.5	8/4/2020	11:00	0.9	112.5
5/4/2020	12:00	0.4	135	6/4/2020	12:00	0.9	67.5	7/4/2020	12:00	1.3	112.5	8/4/2020	12:00	1.3	157.5
5/4/2020	13:00	0.4	135	6/4/2020	13:00	2.2	247.5	7/4/2020	13:00	1.3	112.5	8/4/2020	13:00	1.3	112.5
5/4/2020	14:00	0.4	225	6/4/2020	14:00	2.2	247.5	7/4/2020	14:00	0.9	112.5	8/4/2020	14:00	1.3	112.5
5/4/2020	15:00	0.4	247.5	6/4/2020	15:00	2.2	247.5	7/4/2020	15:00	0.4	112.5	8/4/2020	15:00	1.3	112.5
5/4/2020	16:00	0.4	247.5	6/4/2020	16:00	2.2	247.5	7/4/2020	16:00	0.9	112.5	8/4/2020	16:00	0.9	112.5
5/4/2020	17:00	0.4	112.5	6/4/2020	17:00	2.2	225	7/4/2020	17:00	0.9	112.5	8/4/2020	17:00	1.3	112.5
5/4/2020	18:00	0.4	135	6/4/2020	18:00	2.2	247.5	7/4/2020	18:00	0.9	112.5	8/4/2020	18:00	0.4	315
5/4/2020	19:00	0.9	225	6/4/2020	19:00	2.2	112.5	7/4/2020	19:00	0.4	67.5	8/4/2020	19:00	0.4	135
5/4/2020	20:00	0.9	225	6/4/2020	20:00	2.2	112.5	7/4/2020	20:00	0.4	90	8/4/2020	20:00	0.4	135
5/4/2020	21:00	0.4	157.5	6/4/2020	21:00	1.8	135	7/4/2020	21:00	0.4	0	8/4/2020	21:00	0.4	112.5
5/4/2020	22:00	0.4	157.5	6/4/2020	22:00	1.8	135	7/4/2020	22:00	0.4	22.5	8/4/2020	22:00	0.4	112.5
5/4/2020	23:00	0.9	157.5	6/4/2020	23:00	1.8	135	7/4/2020	23:00	0.9	67.5	8/4/2020	23:00	0.4	45

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
9/4/2020	0:00	0.4	90	10/4/2020	0:00	0.9	112.5	11/4/2020	0:00	0.9	112.5	12/4/2020	0:00	0.9	247.5
9/4/2020	1:00	0.4	0	10/4/2020	1:00	0.9	202.5	11/4/2020	1:00	0.9	135	12/4/2020	1:00	1.3	225
9/4/2020	2:00	0.9	90	10/4/2020	2:00	0.9	202.5	11/4/2020	2:00	0.4	112.5	12/4/2020	2:00	1.3	225
9/4/2020	3:00	0.9	0	10/4/2020	3:00	1.3	157.5	11/4/2020	3:00	1.3	112.5	12/4/2020	3:00	1.3	247.5
9/4/2020	4:00	0.4	67.5	10/4/2020	4:00	0.9	157.5	11/4/2020	4:00	1.3	112.5	12/4/2020	4:00	0.4	67.5
9/4/2020	5:00	0.9	67.5	10/4/2020	5:00	0.9	112.5	11/4/2020	5:00	0.9	112.5	12/4/2020	5:00	1.3	22.5
9/4/2020	6:00	0.4	112.5	10/4/2020	6:00	0.9	225	11/4/2020	6:00	0.9	112.5	12/4/2020	6:00	1.3	45
9/4/2020	7:00	0.9	112.5	10/4/2020	7:00	0.9	112.5	11/4/2020	7:00	0.9	135	12/4/2020	7:00	0.9	22.5
9/4/2020	8:00	0.4	90	10/4/2020	8:00	0.9	112.5	11/4/2020	8:00	0.9	112.5	12/4/2020	8:00	0.9	22.5
9/4/2020	9:00	0.4	112.5	10/4/2020	9:00	0.4	135	11/4/2020	9:00	0.9	112.5	12/4/2020	9:00	0.4	45
9/4/2020	10:00	0.4	112.5	10/4/2020	10:00	1.8	112.5	11/4/2020	10:00	0.4	112.5	12/4/2020	10:00	0.9	45
9/4/2020	11:00	0.9	112.5	10/4/2020	11:00	1.3	112.5	11/4/2020	11:00	0.9	112.5	12/4/2020	11:00	2.2	45
9/4/2020	12:00	0.9	0	10/4/2020	12:00	0.9	112.5	11/4/2020	12:00	0.9	112.5	12/4/2020	12:00	1.8	225
9/4/2020	13:00	0.4	90	10/4/2020	13:00	2.7	112.5	11/4/2020	13:00	0.4	112.5	12/4/2020	13:00	1.8	247.5
9/4/2020	14:00	0.4	112.5	10/4/2020	14:00	1.8	90	11/4/2020	14:00	0.4	112.5	12/4/2020	14:00	1.8	337.5
9/4/2020	15:00	0.9	90	10/4/2020	15:00	2.7	90	11/4/2020	15:00	0.4	135	12/4/2020	15:00	1.3	315
9/4/2020	16:00	0.4	112.5	10/4/2020	16:00	2.2	112.5	11/4/2020	16:00	0.9	112.5	12/4/2020	16:00	0.9	292.5
9/4/2020	17:00	0.4	112.5	10/4/2020	17:00	1.8	90	11/4/2020	17:00	0.4	135	12/4/2020	17:00	0.9	315
9/4/2020	18:00	0.4	90	10/4/2020	18:00	2.7	90	11/4/2020	18:00	0.9	135	12/4/2020	18:00	0.9	0
9/4/2020	19:00	0.4	112.5	10/4/2020	19:00	2.7	112.5	11/4/2020	19:00	0.4	135	12/4/2020	19:00	1.3	45
9/4/2020	20:00	0.4	135	10/4/2020	20:00	0.9	112.5	11/4/2020	20:00	0.4	112.5	12/4/2020	20:00	1.8	45
9/4/2020	21:00	0.9	90	10/4/2020	21:00	0.9	112.5	11/4/2020	21:00	0.9	112.5	12/4/2020	21:00	1.8	112.5
9/4/2020	22:00	0.9	90	10/4/2020	22:00	1.3	112.5	11/4/2020	22:00	0.9	112.5	12/4/2020	22:00	0.9	45
9/4/2020	23:00	0.4	45	10/4/2020	23:00	1.3	112.5	11/4/2020	23:00	0.9	112.5	12/4/2020	23:00	1.8	22.5

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
13/4/2020	0:00	0.9	45	14/4/2020	0:00	0.4	135	15/4/2020	0:00	0.4	112.5	16/4/2020	0:00	0	247.5
13/4/2020	1:00	0.9	45	14/4/2020	1:00	0.4	135	15/4/2020	1:00	0	112.5	16/4/2020	1:00	0	247.5
13/4/2020	2:00	0.9	315	14/4/2020	2:00	0.4	112.5	15/4/2020	2:00	0	247.5	16/4/2020	2:00	0	247.5
13/4/2020	3:00	0.9	337.5	14/4/2020	3:00	0.4	157.5	15/4/2020	3:00	0	247.5	16/4/2020	3:00	0	135
13/4/2020	4:00	0.9	337.5	14/4/2020	4:00	0.4	337.5	15/4/2020	4:00	0	247.5	16/4/2020	4:00	0	135
13/4/2020	5:00	0.9	45	14/4/2020	5:00	0.4	315	15/4/2020	5:00	0	135	16/4/2020	5:00	0.4	135
13/4/2020	6:00	0.9	157.5	14/4/2020	6:00	0.4	0	15/4/2020	6:00	0	135	16/4/2020	6:00	0.4	112.5
13/4/2020	7:00	0.4	157.5	14/4/2020	7:00	0.9	135	15/4/2020	7:00	0	135	16/4/2020	7:00	0.4	112.5
13/4/2020	8:00	0.4	135	14/4/2020	8:00	0.4	135	15/4/2020	8:00	0.9	247.5	16/4/2020	8:00	1.3	90
13/4/2020	9:00	0.9	22.5	14/4/2020	9:00	0.9	202.5	15/4/2020	9:00	0.4	247.5	16/4/2020	9:00	1.3	112.5
13/4/2020	10:00	0.9	22.5	14/4/2020	10:00	0.4	202.5	15/4/2020	10:00	0	270	16/4/2020	10:00	1.3	112.5
13/4/2020	11:00	0.9	67.5	14/4/2020	11:00	0.9	202.5	15/4/2020	11:00	0.4	270	16/4/2020	11:00	1.8	90
13/4/2020	12:00	1.3	67.5	14/4/2020	12:00	1.3	67.5	15/4/2020	12:00	0.9	247.5	16/4/2020	12:00	1.8	90
13/4/2020	13:00	1.8	22.5	14/4/2020	13:00	1.3	67.5	15/4/2020	13:00	0.9	292.5	16/4/2020	13:00	1.8	90
13/4/2020	14:00	1.8	45	14/4/2020	14:00	1.8	135	15/4/2020	14:00	0.4	112.5	16/4/2020	14:00	1.3	90
13/4/2020	15:00	1.8	45	14/4/2020	15:00	0.9	337.5	15/4/2020	15:00	0.4	112.5	16/4/2020	15:00	1.8	90
13/4/2020	16:00	0.9	45	14/4/2020	16:00	0.9	337.5	15/4/2020	16:00	0.4	135	16/4/2020	16:00	1.3	90
13/4/2020	17:00	0.9	67.5	14/4/2020	17:00	1.3	135	15/4/2020	17:00	0.9	135	16/4/2020	17:00	1.3	90
13/4/2020	18:00	1.8	67.5	14/4/2020	18:00	1.3	135	15/4/2020	18:00	1.3	90	16/4/2020	18:00	0.9	112.5
13/4/2020	19:00	1.3	0	14/4/2020	19:00	1.3	112.5	15/4/2020	19:00	0.9	90	16/4/2020	19:00	0.9	112.5
13/4/2020	20:00	1.8	22.5	14/4/2020	20:00	0.4	112.5	15/4/2020	20:00	0.9	67.5	16/4/2020	20:00	0.9	90
13/4/2020	21:00	1.8	22.5	14/4/2020	21:00	0.4	112.5	15/4/2020	21:00	0.4	67.5	16/4/2020	21:00	1.3	90
13/4/2020	22:00	1.3	112.5	14/4/2020	22:00	0.4	292.5	15/4/2020	22:00	0	112.5	16/4/2020	22:00	1.3	90
13/4/2020	23:00	1.8	90	14/4/2020	23:00	0.4	337.5	15/4/2020	23:00	0	112.5	16/4/2020	23:00	0.9	112.5

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
17/4/2020	0:00	1.3	112.5	18/4/2020	0:00	0.4	135	19/4/2020	0:00	0.4	202.5	20/4/2020	0:00	0.4	270
17/4/2020	1:00	0.9	112.5	18/4/2020	1:00	0.4	135	19/4/2020	1:00	0.4	247.5	20/4/2020	1:00	0.4	180
17/4/2020	2:00	0.9	112.5	18/4/2020	2:00	0.4	112.5	19/4/2020	2:00	0.4	202.5	20/4/2020	2:00	0.9	157.5
17/4/2020	3:00	0.4	135	18/4/2020	3:00	0.4	112.5	19/4/2020	3:00	0.9	112.5	20/4/2020	3:00	0.9	157.5
17/4/2020	4:00	0.9	337.5	18/4/2020	4:00	0.4	112.5	19/4/2020	4:00	0.4	225	20/4/2020	4:00	0.9	157.5
17/4/2020	5:00	0.9	225	18/4/2020	5:00	0.4	112.5	19/4/2020	5:00	0.4	180	20/4/2020	5:00	1.3	247.5
17/4/2020	6:00	0.4	112.5	18/4/2020	6:00	0.4	112.5	19/4/2020	6:00	0.9	180	20/4/2020	6:00	0.9	247.5
17/4/2020	7:00	0.4	112.5	18/4/2020	7:00	0.4	112.5	19/4/2020	7:00	0.9	135	20/4/2020	7:00	1.3	247.5
17/4/2020	8:00	0.4	315	18/4/2020	8:00	0.9	135	19/4/2020	8:00	0.9	225	20/4/2020	8:00	1.3	247.5
17/4/2020	9:00	0.4	247.5	18/4/2020	9:00	0.4	135	19/4/2020	9:00	0.4	225	20/4/2020	9:00	1.3	225
17/4/2020	10:00	0.9	315	18/4/2020	10:00	0.9	135	19/4/2020	10:00	0.9	225	20/4/2020	10:00	0.9	225
17/4/2020	11:00	0.9	292.5	18/4/2020	11:00	0.4	90	19/4/2020	11:00	0.4	112.5	20/4/2020	11:00	1.3	247.5
17/4/2020	12:00	0.9	270	18/4/2020	12:00	0.4	67.5	19/4/2020	12:00	0.9	247.5	20/4/2020	12:00	1.3	247.5
17/4/2020	13:00	0.9	247.5	18/4/2020	13:00	1.8	247.5	19/4/2020	13:00	1.3	225	20/4/2020	13:00	1.8	247.5
17/4/2020	14:00	0.9	112.5	18/4/2020	14:00	2.2	247.5	19/4/2020	14:00	1.3	270	20/4/2020	14:00	0.9	270
17/4/2020	15:00	1.8	90	18/4/2020	15:00	1.8	247.5	19/4/2020	15:00	1.8	247.5	20/4/2020	15:00	0.9	270
17/4/2020	16:00	1.3	90	18/4/2020	16:00	1.8	247.5	19/4/2020	16:00	2.2	247.5	20/4/2020	16:00	0.9	247.5
17/4/2020	17:00	1.8	90	18/4/2020	17:00	0.9	112.5	19/4/2020	17:00	1.8	247.5	20/4/2020	17:00	0.4	90
17/4/2020	18:00	1.3	112.5	18/4/2020	18:00	2.2	247.5	19/4/2020	18:00	1.3	247.5	20/4/2020	18:00	0.9	112.5
17/4/2020	19:00	1.3	112.5	18/4/2020	19:00	1.8	247.5	19/4/2020	19:00	1.8	225	20/4/2020	19:00	0.9	135
17/4/2020	20:00	0.9	112.5	18/4/2020	20:00	1.3	225	19/4/2020	20:00	1.3	225	20/4/2020	20:00	0.4	90
17/4/2020	21:00	0.9	112.5	18/4/2020	21:00	1.3	247.5	19/4/2020	21:00	0.9	225	20/4/2020	21:00	0.9	112.5
17/4/2020	22:00	0.4	112.5	18/4/2020	22:00	0.4	45	19/4/2020	22:00	0.9	90	20/4/2020	22:00	0.9	112.5
17/4/2020	23:00	0.9	112.5	18/4/2020	23:00	0.4	45	19/4/2020	23:00	0.4	90	20/4/2020	23:00	0.4	112.5

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
21/4/2020	0:00	0.4	135	22/4/2020	0:00	0.4	135	23/4/2020	0:00	0.9	90	24/4/2020	0:00	0.4	112.5
21/4/2020	1:00	0.4	112.5	22/4/2020	1:00	0.4	135	23/4/2020	1:00	1.3	112.5	24/4/2020	1:00	0	157.5
21/4/2020	2:00	0.4	135	22/4/2020	2:00	0.4	135	23/4/2020	2:00	1.8	90	24/4/2020	2:00	0	157.5
21/4/2020	3:00	0.4	135	22/4/2020	3:00	0.9	112.5	23/4/2020	3:00	1.8	90	24/4/2020	3:00	0.4	157.5
21/4/2020	4:00	0.4	112.5	22/4/2020	4:00	0.4	112.5	23/4/2020	4:00	2.2	112.5	24/4/2020	4:00	0.4	337.5
21/4/2020	5:00	0.4	135	22/4/2020	5:00	0.4	22.5	23/4/2020	5:00	2.7	90	24/4/2020	5:00	0.4	0
21/4/2020	6:00	0.9	112.5	22/4/2020	6:00	0.9	22.5	23/4/2020	6:00	2.2	90	24/4/2020	6:00	0.4	22.5
21/4/2020	7:00	0.9	112.5	22/4/2020	7:00	0.4	45	23/4/2020	7:00	1.8	135	24/4/2020	7:00	0.4	22.5
21/4/2020	8:00	0.4	135	22/4/2020	8:00	0.9	45	23/4/2020	8:00	1.3	135	24/4/2020	8:00	0.9	67.5
21/4/2020	9:00	1.3	90	22/4/2020	9:00	0.4	45	23/4/2020	9:00	0.9	112.5	24/4/2020	9:00	0.4	67.5
21/4/2020	10:00	1.8	90	22/4/2020	10:00	0.4	112.5	23/4/2020	10:00	0.4	247.5	24/4/2020	10:00	0.4	67.5
21/4/2020	11:00	1.8	112.5	22/4/2020	11:00	0.9	112.5	23/4/2020	11:00	1.8	225	24/4/2020	11:00	0.9	90
21/4/2020	12:00	1.3	112.5	22/4/2020	12:00	2.2	112.5	23/4/2020	12:00	1.8	112.5	24/4/2020	12:00	1.3	112.5
21/4/2020	13:00	1.3	112.5	22/4/2020	13:00	2.2	90	23/4/2020	13:00	1.8	112.5	24/4/2020	13:00	1.8	112.5
21/4/2020	14:00	1.3	112.5	22/4/2020	14:00	1.3	90	23/4/2020	14:00	1.3	112.5	24/4/2020	14:00	0.4	112.5
21/4/2020	15:00	1.8	112.5	22/4/2020	15:00	1.8	112.5	23/4/2020	15:00	1.8	157.5	24/4/2020	15:00	0.4	90
21/4/2020	16:00	0.9	112.5	22/4/2020	16:00	2.7	112.5	23/4/2020	16:00	0.4	270	24/4/2020	16:00	0.9	157.5
21/4/2020	17:00	0.9	112.5	22/4/2020	17:00	3.1	90	23/4/2020	17:00	0.4	337.5	24/4/2020	17:00	0.4	157.5
21/4/2020	18:00	1.3	112.5	22/4/2020	18:00	2.2	90	23/4/2020	18:00	0.4	315	24/4/2020	18:00	0.4	157.5
21/4/2020	19:00	0.9	112.5	22/4/2020	19:00	1.8	90	23/4/2020	19:00	0.4	337.5	24/4/2020	19:00	0.9	202.5
21/4/2020	20:00	0.9	112.5	22/4/2020	20:00	1.3	67.5	23/4/2020	20:00	0.9	337.5	24/4/2020	20:00	0.9	135
21/4/2020	21:00	0.9	112.5	22/4/2020	21:00	1.3	90	23/4/2020	21:00	0.9	22.5	24/4/2020	21:00	0.4	337.5
21/4/2020	22:00	0.4	112.5	22/4/2020	22:00	1.8	112.5	23/4/2020	22:00	0.4	0	24/4/2020	22:00	0.4	225
21/4/2020	23:00	0.4	135	22/4/2020	23:00	1.3	112.5	23/4/2020	23:00	0.9	0	24/4/2020	23:00	0.4	225

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
25/4/2020	0:00	0.9	22.5	26/4/2020	0:00	0.4	247.5	27/4/2020	0:00	0	22.5	28/4/2020	0:00	0.4	112.5
25/4/2020	1:00	0.9	22.5	26/4/2020	1:00	0.4	247.5	27/4/2020	1:00	0	22.5	28/4/2020	1:00	0.4	112.5
25/4/2020	2:00	0.9	67.5	26/4/2020	2:00	0.4	315	27/4/2020	2:00	0	45	28/4/2020	2:00	0.4	112.5
25/4/2020	3:00	0.4	22.5	26/4/2020	3:00	0.4	90	27/4/2020	3:00	0	90	28/4/2020	3:00	0.4	135
25/4/2020	4:00	0.4	135	26/4/2020	4:00	0.4	90	27/4/2020	4:00	0	90	28/4/2020	4:00	0.4	135
25/4/2020	5:00	0.4	112.5	26/4/2020	5:00	0.4	112.5	27/4/2020	5:00	0.4	112.5	28/4/2020	5:00	1.3	90
25/4/2020	6:00	0.4	112.5	26/4/2020	6:00	0.4	270	27/4/2020	6:00	0.9	112.5	28/4/2020	6:00	1.3	112.5
25/4/2020	7:00	0.4	22.5	26/4/2020	7:00	0.4	270	27/4/2020	7:00	0.4	135	28/4/2020	7:00	1.3	112.5
25/4/2020	8:00	0.4	22.5	26/4/2020	8:00	0.9	270	27/4/2020	8:00	0.9	112.5	28/4/2020	8:00	1.8	90
25/4/2020	9:00	0.4	157.5	26/4/2020	9:00	0.4	292.5	27/4/2020	9:00	0.9	90	28/4/2020	9:00	2.2	112.5
25/4/2020	10:00	0.4	157.5	26/4/2020	10:00	1.8	112.5	27/4/2020	10:00	0.9	135	28/4/2020	10:00	1.8	22.5
25/4/2020	11:00	0.4	247.5	26/4/2020	11:00	1.3	112.5	27/4/2020	11:00	1.3	135	28/4/2020	11:00	2.2	90
25/4/2020	12:00	0.4	337.5	26/4/2020	12:00	1.3	90	27/4/2020	12:00	1.3	112.5	28/4/2020	12:00	1.3	157.5
25/4/2020	13:00	0.4	247.5	26/4/2020	13:00	1.8	112.5	27/4/2020	13:00	1.3	112.5	28/4/2020	13:00	1.3	225
25/4/2020	14:00	0.4	247.5	26/4/2020	14:00	0.9	112.5	27/4/2020	14:00	1.3	90	28/4/2020	14:00	1.3	90
25/4/2020	15:00	0.4	135	26/4/2020	15:00	1.3	112.5	27/4/2020	15:00	1.3	112.5	28/4/2020	15:00	0.9	90
25/4/2020	16:00	1.3	112.5	26/4/2020	16:00	1.3	112.5	27/4/2020	16:00	1.3	112.5	28/4/2020	16:00	1.3	90
25/4/2020	17:00	0.9	135	26/4/2020	17:00	0.9	112.5	27/4/2020	17:00	1.3	112.5	28/4/2020	17:00	1.3	112.5
25/4/2020	18:00	0.9	135	26/4/2020	18:00	0.4	112.5	27/4/2020	18:00	0.9	112.5	28/4/2020	18:00	1.3	112.5
25/4/2020	19:00	0.9	135	26/4/2020	19:00	0.4	135	27/4/2020	19:00	0.9	112.5	28/4/2020	19:00	0.9	112.5
25/4/2020	20:00	0.9	315	26/4/2020	20:00	0.4	135	27/4/2020	20:00	0.9	90	28/4/2020	20:00	0.9	112.5
25/4/2020	21:00	0.4	292.5	26/4/2020	21:00	0.4	225	27/4/2020	21:00	0.4	112.5	28/4/2020	21:00	1.3	112.5
25/4/2020	22:00	0.4	90	26/4/2020	22:00	0.4	202.5	27/4/2020	22:00	0.4	135	28/4/2020	22:00	1.8	112.5
25/4/2020	23:00	0.4	90	26/4/2020	23:00	0.4	225	27/4/2020	23:00	0.4	112.5	28/4/2020	23:00	0.4	247.5

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
29/4/2020	0:00	0.9	112.5	30/4/2020	0:00	0.9	112.5								
29/4/2020	1:00	1.3	112.5	30/4/2020	1:00	0.4	112.5								
29/4/2020	2:00	0.9	0	30/4/2020	2:00	0.9	112.5								
29/4/2020	3:00	1.3	112.5	30/4/2020	3:00	0.4	112.5								
29/4/2020	4:00	0.4	247.5	30/4/2020	4:00	0.4	112.5								
29/4/2020	5:00	0.4	270	30/4/2020	5:00	0.4	112.5								
29/4/2020	6:00	0.9	315	30/4/2020	6:00	0.4	112.5								
29/4/2020	7:00	0.4	90	30/4/2020	7:00	0.9	112.5								
29/4/2020	8:00	0.9	157.5	30/4/2020	8:00	0.9	112.5								
29/4/2020	9:00	0.9	45	30/4/2020	9:00	0.9	90								
29/4/2020	10:00	1.8	225	30/4/2020	10:00	1.3	90								
29/4/2020	11:00	1.3	112.5	30/4/2020	11:00	2.2	112.5								
29/4/2020	12:00	1.3	112.5	30/4/2020	12:00	1.8	112.5								
29/4/2020	13:00	1.3	90	30/4/2020	13:00	1.3	112.5								
29/4/2020	14:00	1.8	90	30/4/2020	14:00	1.3	90								
29/4/2020	15:00	1.3	112.5	30/4/2020	15:00	1.3	112.5								
29/4/2020	16:00	1.8	112.5	30/4/2020	16:00	0.9	135								
29/4/2020	17:00	2.2	112.5	30/4/2020	17:00	1.3	112.5								
29/4/2020	18:00	1.8	90	30/4/2020	18:00	0.9	112.5								
29/4/2020	19:00	1.3	90	30/4/2020	19:00	0.9	112.5								
29/4/2020	20:00	2.2	112.5	30/4/2020	20:00	0.4	135								
29/4/2020	21:00	0.9	112.5	30/4/2020	21:00	0.4	112.5								
29/4/2020	22:00	0.4	112.5	30/4/2020	22:00	0.9	112.5								
29/4/2020	23:00	0.4	135	30/4/2020	23:00	0.9	112.5								

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	Time	Sampling Time		Rate m)	Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m³/min)	(m^3)	$(\mu g/m^3)$
2/4/2020	Sunny	20.9	1017	18.6293	18.7264	0.0971	834.72	858.75	1442	46	46	1.28	1841	53
8/4/2020	Sunny	22.7	1016.5	18.5112	18.6053	0.0941	858.75	882.79	1442	46	46	1.27	1836	51
14/4/2020	Sunny	22.6	1017.5	18.6545	18.7964	0.1419	882.85	906.92	1444	43	43	1.19	1722	82
18/4/2020	Cloudy	27.1	1013.9	15.092	15.1966	0.1046	907.69	931.69	1440	46	46	1.26	1817	58
23/4/2020	Cloudy	27.7	1017.2	15.483	15.5425	0.0595	931.69	955.71	1441	46	46	1.26	1820	33
28/4/2020	Sunny	25.8	1018	15.5488	15.7555	0.2067	955.71	979.71	1440	47	47	1.29	1863	111
												Maxi	mum	111
												Minii	num	33
												Avei	rage	65
												Action	Level	182

Limit Level

Limit Level

260

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	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)	$(\mu g/m^3)$
2/4/2020	Sunny	20.9	1017	15.6072	15.6953	0.0881	812.78	836.84	1444	43	43	1.20	1726	51
8/4/2020	Sunny	22.7	1016.5	15.6814	15.8251	0.1437	836.84	860.89	1443	44	44	1.22	1758	82
14/4/2020	Sunny	22.6	1017.5	19.6946	19.8527	0.1581	861.53	885.57	1442	44	44	1.22	1759	90
18/4/2020	Cloudy	27.1	1013.9	15.3718	15.4898	0.118	885.57	909.57	1440	44	44	1.21	1740	68
23/4/2020	Cloudy	27.7	1017.2	19.9141	19.9821	0.068	909.82	933.85	1442	43	43	1.18	1704	40
28/4/2020	Sunny	25.8	1018	14.3703	14.5521	0.1818	933.85	957.86	1441	43	43	1.19	1709	106
												Maxi	mum	106
												Minii	num	40
												Avei	age	73
												Action	Level	187

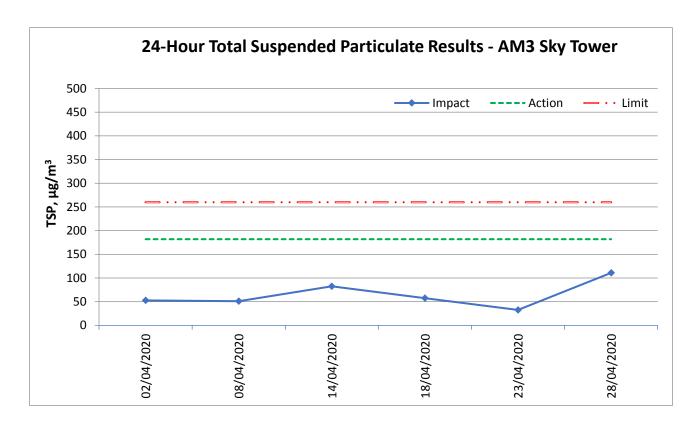
Location: AM7 – Hong Kong Children's Hospital

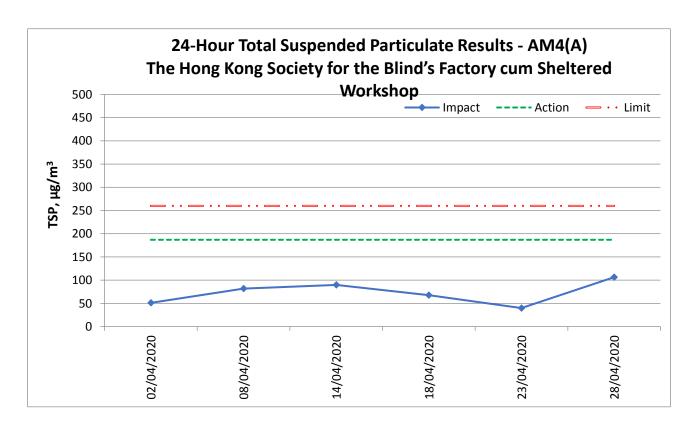
Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		$(^{\circ}\mathbb{C})$	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m³/min)	(m^3)	$(\mu g/m^3)$
2/4/2020	Sunny	20.9	1017	18.2353	18.319	0.0837	5660.88	5684.91	1442	43	43	1.20	1723	49
8/4/2020	Sunny	22.7	1016.5	18.4822	18.578	0.0958	5684.94	5708.95	1441	42	42	1.16	1677	57
14/4/2020	Sunny	22.6	1017.5	18.3567	18.4977	0.141	5708.95	5732.97	1441	42	42	1.17	1679	84
18/4/2020	Cloudy	27.1	1013.9	18.5598	18.6698	0.11	5732.97	5756.98	1441	42	42	1.15	1663	66
23/4/2020	Cloudy	27.7	1017.2	18.503	18.5618	0.0588	5756.98	5780.98	1440	44	44	1.21	1741	34
28/4/2020	Sunny	25.8	1018	14.6591	14.8451	0.186	5780.98	5804.98	1440	44	44	1.21	1747	106
												Maxin	num	106
												Minin	num	34
												Avera	age	66
												Action 1	Level	181

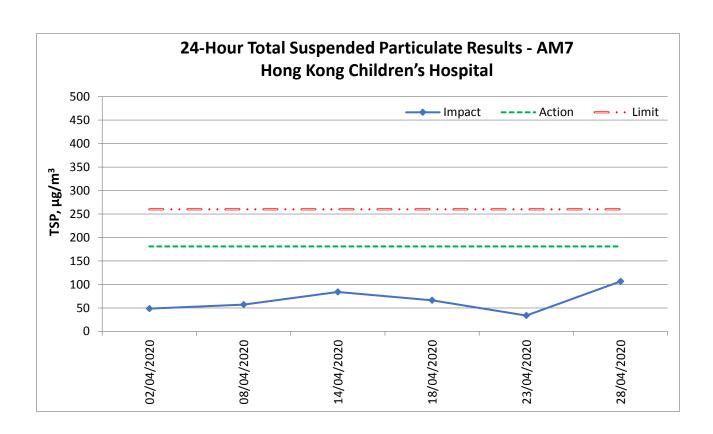
Limit Level

260

24-hour average TSP







Appendix H – 1-hr TSP monitoring results and gra	aphical presentation

Location:
AM3 Sky Tower

Date	Measure	emei	nt Period	1-hr TSP concentration, μg/m ³	Weather
	10:00	-	11:00	58	
2/4/2020	11:00	-	12:00	57	Sunny
	17:00	-	18:00	53	
	13:00	-	14:00	49	
8/4/2020	14:00	-	15:00	48	Sunny
	15:00	-	16:00	48	
	13:30	-	14:30	72	
14/4/2020	14:30	-	15:30	63	Sunny
	15:30	-	16:30	68	
	11:00	-	12:00	58	
18/4/2020	13:00	-	14:00	64	Cloudy
	14:00	-	15:00	65	
	8:30	-	9:30	31	
23/4/2020	9:30	-	10:30	33	Cloudy
	10:30	-	11:30	33	
	9:00	-	10:00	34	
28/4/2020	10:00	-	11:00	41	Sunny
	11:00	1	12:00	40	
N	Iaximum			72	
N	Iinimum			31	
	Average		-	51	
Ac	tion Level	l		297	
Li	mit Level			500	

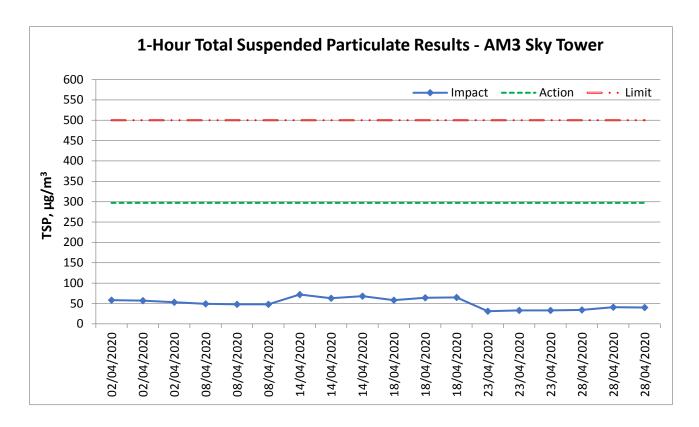
Location:
AM4(A) The Hong Kong
Society for the
Blind's Factory
cum Sheltered
Workshop

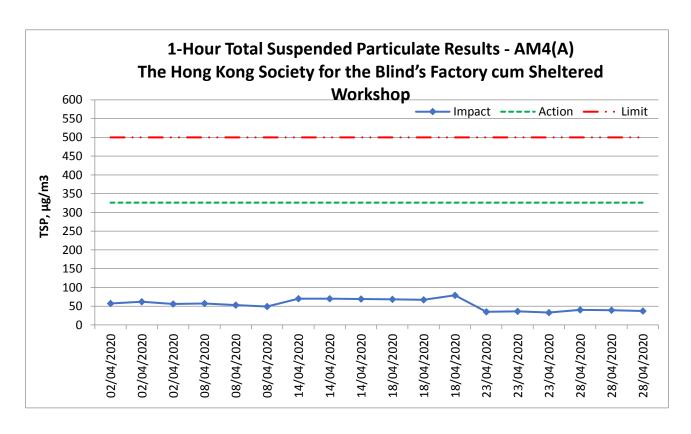
Date	Measure	mei	nt Period	1-hr TSP concentration, μg/m ³	Weather
	10:00	-	11:00	57	
2/4/2020	11:00	-	12:00	62	Sunny
	17:00	-	18:00	56	
	9:00	-	10:00	57	
8/4/2020	10:00	-	11:00	53	Sunny
	11:00	-	12:00	49	
	13:00	-	14:00	70	
14/4/2020	14:00	-	15:00	70	Sunny
	15:00	-	16:00	69	
	9:00	-	10:00	68	
18/4/2020	10:00	-	11:00	67	Cloudy
	11:00	-	12:00	79	
	9:00	1	10:00	35	
23/4/2020	10:00	-	11:00	36	Cloudy
	11:00	-	12:00	33	
	9:00	-	10:00	40	
28/4/2020	10:00	-	11:00	39	Sunny
	11:00	-	12:00	37	
N	laximum			79	
N	1inimum			33	
1	Average			54	
Ac	tion Level		-	326	
Li	mit Level			500	

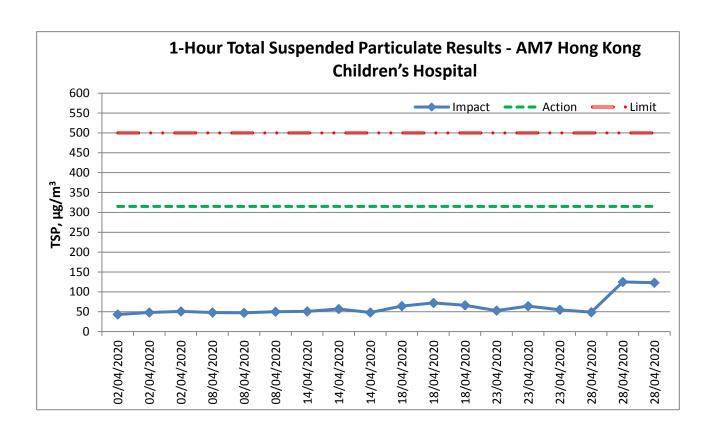
Location:
AM7 Hong Kong
Children's
Hospital

Date	Measure	mei	nt Period	1-hr TSP concentration, μg/m³	Weather
	13:00	-	14:00	43	
2/4/2020	14:00	-	15:00	48	Sunny
	15:00	-	16:00	51	
	9:00	-	10:00	48	
8/4/2020	10:00	-	11:00	47	Sunny
	11:00	-	12:00	50	
	9:00	-	10:00	51	
14/4/2020	10:00	-	11:00	57	Sunny
	11:00	-	12:00	48	
	13:00	-	14:00	64	
18/4/2020	14:00	-	15:00	72	Cloudy
	15:00	-	16:00	66	
	13:00	-	14:00	53	
23/4/2020	14:00	-	15:00	64	Cloudy
	15:00	-	16:00	55	
	13:00	-	14:00	49	
28/4/2020	14:00	-	15:00	125	Sunny
	15:00	-	16:00	123	
N	Iaximum	-		125	
N	Iinimum	-		43	
1	Average	-		62	
Ac	tion Level			315	
Li	mit Level			500	

1-hour average TSP







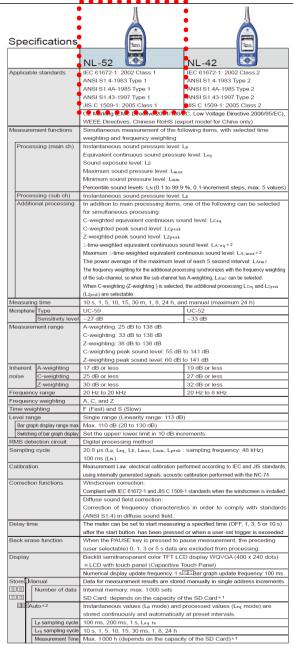
Appendix I – Event and Action Plan for air quality

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

E4		Acti	on	
Event	ET	IEC	Supervisor / ER	Contractor
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	measures.	 implemented; 4. Supervise implementation of remedial measures; 5. Conduct meeting with ET and IEC if exceedance continues. 	within three working days of notification; 4. Implement the agreed proposals.
Limit Level being exceeded by two or more consecutive sampling	 Notify IEC, Supervisor /ER, Contractor and EPD; Repeat measurement to confirm findings; Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance; Increase monitoring frequency to daily; Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken; Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and Supervisor /ER 	submitted by ET; 2. Check Contractor's working method; 3. Discuss with Supervisor /ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise 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. 	 Take immediate action to avoid further exceedance; Discuss with ET and IEC on proper remedial actions; Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification; Implement the agreed proposals; Submit further remedial actions if problem still not under control; Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.
	informed of the results; 7. If exceedance stop, cease additional monitoring.			

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

Catalogue of Sound Level Meter



Data n	ecall		Allows viewing of stored data
Setup	memory		Up to five setup configurations can be saved in internal memory, for later recal
	,		Start up via file settings previously stored on SD card possible
Wavefo	rm recordi	ng *3	otart ap na me settinge promotely stored on the start possible
_	format		Uncompressed waveform WAVE file
	npling frequ	iencv	Select 48 kHz. 24 kHz or 12 kHz
	ta length		Select 24 bit or 16 bit
	DC outp	ut	Output DC signals using a frequency weighting characteristic selected by processing
		ıt voltage	2.5 V, 25 mV / dB at bar graph display full scale
	AC outp		Output AC signals using a frequency weighting characteristic selected by
			processing or by A, C, Z-weighting.
	Outpu	ıt voltage	1 ∨ (rms values) at bar graph display full scale
	Compar		Turns on when the open-collector output exceeds the set value
	output*	2	(max. applied voltage 24 V, max. current 60 mA, allowable dissipation 300 mW)
USB	II.		Allows USB to be connected to a computer and recognized as a removable dis
22 20 20			Allows USB to be controlled via communication commands
RS-23	2C comn	nunication	Allows for RS-232C communication via use of a dedicated cable
Data c	ontinuous	output*2	
Тур	e of Insta	ntaneous value	Lp
dat	a Proc	essed value	Leq, Lmax, Lmin, Lpeak
Out	tput interv	/al	100 ms
Print o	out		Printing of measurement results on dedicated printer DPU-414
Power	requiren	nents	Four IEC R6 (size AA) batteries (alkaline or rechargeable batteries) or external power supply
Bat	tery life (2	23 °C)	Alkaline battery LR6 (AA): 26 h Ni-MH secondary battery: 25 h
			At the maximum * Depends on the setting
AC	adapter		NC-98C (NC-34 for previous models cannot be used)
Ext	emal pow	er voltage	5 to 7 V (rated voltage: 6 V)
Cui	rrent cons	sumption	Approximately 90 mA (normal operation, rated voltage)
Ambie	nt Ten	nperature	−10 to +50 °C
conditi	ons Hur	midity	10 to 90 % RH (non-condensing)
Dustpr	oof / wate	r-resistant	IP code: IP54 (except for microphone)
perforr	mance*4		See precautions regarding waterproofing
Dimen	sions, we	eight	Approx. 250 (H) x 76 (W) x 33 mm(D), approx. 400 g (with batteries)
Suppli	ed acces	sories	Storage case x 1, Windscreen WS-10 x 1, Windscreen fall prevention rubber x 1,
			Hand strap x 1, LR6 (AA) alkaline batteries x 4, SD card 512 MB×1 (NX-42EX
			preinstalled model only)

Options

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

*1 Use Rion fully guaranteed products. *2 NX-42EX required (sold separately). *3 NX-42WR required (sold separately *4 Protection against harmful dust and water splashing from any direction.

Precautions regarding waterproofing

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



* Windows is a trademark of Microsoft Corporation.

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RION CO., LTD.
http://www.rion.co.jp/english/
3-20-41, Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

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

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

1011-4 1 212 P.D

Calibration Certificate of Sound Level Meter



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 可,认可证书号为: CNAS L0462。

This laboratory quality management system meets the ISO/IEC 17025 and is accredited by the China National Accreditation Service for Conformity Assessment, No. CNAS L0462.

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

 IJG 188-2002 声级计检定规程: 声压级:(20~130)dB:频率计权:(20~130)dB@(10Hz~20kHz)
- 详细内容清查看CNAS网站中注册编号为10462的证书招件、超出范围的内容未被认可。(Please see the attachment of certificate No. 10462 at CNAS website for details, beyond which is not accredited).
- 3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration): 技术指标

证书号/有效期/溯源单位 (Specification) (Description) (Certificate No./Due Date/Traceability to) Sound Calibrator 音频分析仪 2HB19000002-0104/2020-03-25/賽宝 2HB19000002-0019/2020-01-05/賽宝

- 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
- 5. 环境条件(Environmental conditions):

温度(Temperature): 21°C 相对湿度(Relative Humidity): 63%

6. 依据《JJF 1059.1-2012 测量不确定度评定与表示》进行测量结果不确定度评定。评定结果以包含 因子为k的扩展不确定度U或相对扩展不确定度Um表示。

The evaluation was made according to JJF 1059,1-2012 Evaluation and Expression of Uncertainty in Measurement. The evaluation results were expressed by the extended uncertainty U or relative expanded uncertainty $U_{\rm rel}$ with a coverage

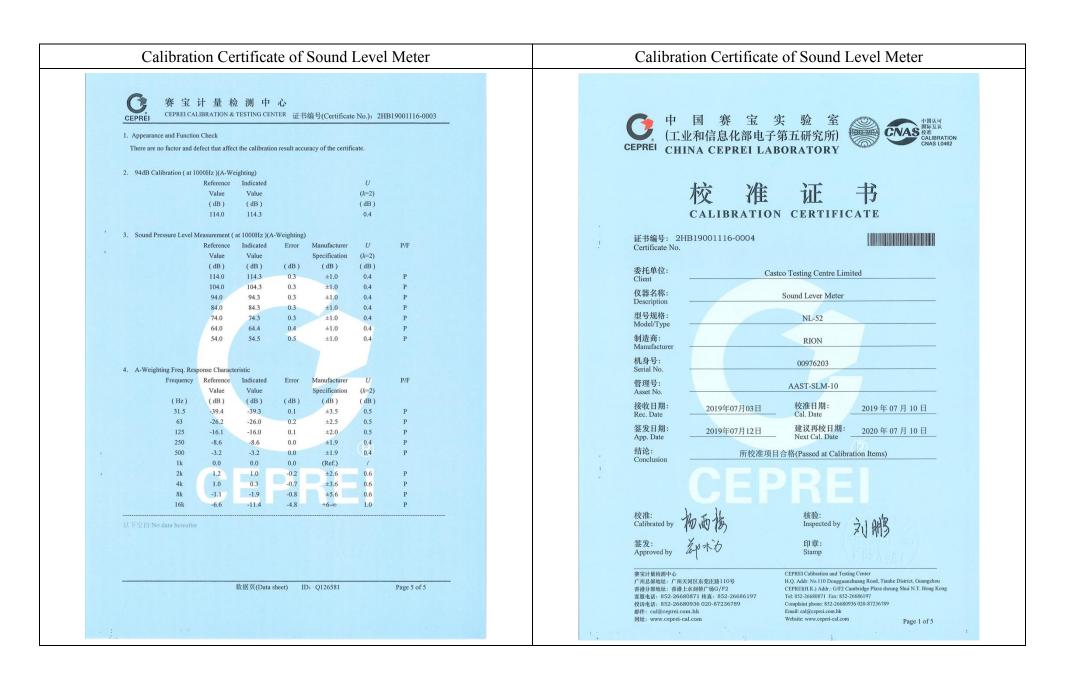
7. 证书中"P"、"合格"代表"测量结果在允许范围内", "F"、"不合格"代表"测量结果不在允许范围内", "N/A"代表"不适用"。本证书报告的判定规则和结论仅供参考,使用人员应结合实际测量的 要求合理使用,如考虑测量结果测量不确定度的影响等。

受水下三定区门,另一方形的量后不例是「TWILLE DIBPAPETS - "P" and "Pass" in this certificate stand for "Low Limit≤the measured value ≤High Limit", "F" and "Fail" stand for "the measured value <Low Limit or the measured value > High Limit", "NIA" stands for "Not Applicable ". The judgment 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.

8. 建议再校日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 北方参考。委托方可以根据实际使用情况自行决定样品的再校准日期。
The recommended date of recalibration is based on the reference documents and the normal operating conditions of the

calibrated instrument. It is only for reference. The client may decide the date of recalibration of the instrument according to actual use.

- 注: 1.本证书未经本机构书面授权,不得部分复制。(The certificate shall not be partly reproduced without written approval of the laboratory.)
- 2.本次校准结果仅与被校物有关。(The results are only related to the items calibrated.)



Calibration Certificate of Sound Level Meter



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 可,认可证书号为: CNAS L0462。

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- 2. 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes):
- JJG 188-2002 声级计检定规程: 声压级:(20~130)dB;频率计权:(20~130)dB@(10Hz~20kHz) *详细内容请查看CNAS网站中注册编号为L0462的证书附件,超出范围的内容未被认可。(Please see the attachment of certificate No. L0462

证书号/有效期/溯源单位 (Specification) (Description) (Certificate No./Due Date/Traceability to) Sound Calibrator 音频分析仪 2HB19000002-0104/2020-03-25/赛宝 2HB19000002-0019/2020-01-05/赛宝 失真度测量: ±5%

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

5. 环境条件(Environmental conditions):

温度(Temperature): 21°C 相对湿度(Relative Humidity): 63%

6. 依据《JJF 1059.1-2012 测量不确定度评定与表示》进行测量结果不确定度评定。评定结果以包含 因子为k的扩展不确定度U或相对扩展不确定度Ure表示。

The evaluation was made according to JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement. The evaluation results were expressed by the extended uncertainty U or relative expanded uncertainty $U_{\rm rel}$ with a coverage

7. 证书中"P"、"合格"代表"测量结果在允许范围内","F"、"不合格"代表"测量结果不在允许范围内","N'A"代表"不适用"。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。

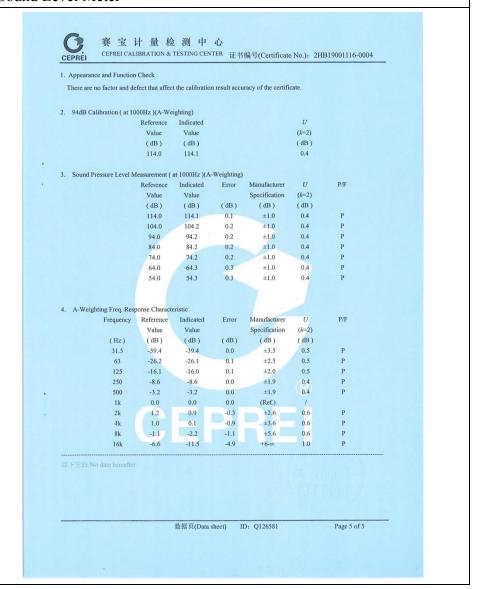
受米に手形が、 this critical stand for "the measured value ≤ High Limit", "F" and "Fail" stand for "the measured value ≤ Ligh Limit", "F" and "Fail" stand for "the measured value < Low Limit Sthe measured value ≤ Low Limit Sthe measured value for "the measured value of the standard value for "the measured value". The light limit is critical standard value for measured value with the standard value for measured value for the standard val measurement requirements, such as considering the impact of measurement uncertainty, etc.

8. 建议再校日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再校准日期。 The recommended date of recalibration is based on the reference documents and the normal operating conditions of the

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Page 3 of 5



Catalogue of Sound Calibrator

For microphone calibration NC-74

How to us

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



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

Using the 1/2-inch adapter

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



Atmospheric pressure compensation principle

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



Specifications

Applicable standards	IEC 60942:2003 Class 1 JIS C1515:2004 Class 1				
Suitable microphones	1-inch microphonas	IEC 61094-1 Type LS1P UC-27 UC-25 UC-34			
	1/2-inch microphones	IEC 61094-1 Type LSZaP UC-99 UC-97 UC-83A UC-82 UC-26 UC-30 UC-31 UC-31			
Nominal sound pressure level	94 dB				
Sound pressure level tolerance	±0.3 dB				
Nominal frequency	1 kHz				
Frequency tolerance	±1.0 % or less				
Power requirements	IEC LR6 (size AA) alkal	Ine battery × 2			
Dimensions, mass	Approx. 49 (H) × 80 (W) × 74 (D) mm Approx. 200 g (including batteries)				
Supplied accessories		Case X 1 IEC LR6 (size AA) alkaline battery X 2 1/2-inch microphone adapter NC-74-002 X 1			

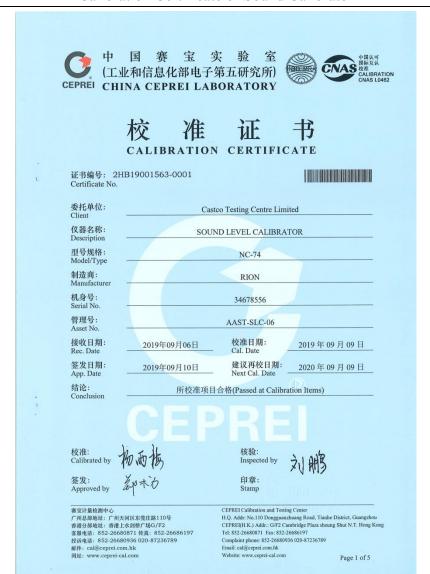
* Specification subject to change without notice



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



Calibration Certificate of Sound Calibrator



Calibration Certificate of Sound Calibrator

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 可,认可证书号为: CNAS L0462。

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

 JJG 176-2005 声校准器检定规程: 声压级:94dB、104dB、114dB,(31.5Hz~16kHz):頻率:31.5Hz~16kHz;谐波
- * 详细内容请查看CNAS网站中注册编号为L0462的证书附件,超出范围的内容未被认可。(Please see the attachment of certificate No. L0462
- 3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration):

名 称	证书号/有效期/溯源单位	技术指标
(Description)	(Certificate No./Due Date/Traceability to) (Specification)
标准传声器/Condenser	GFJGJL1001190203574/2020-02-26/304所	0.05dB~0.1dB
Microphone 前置故士舉/Prosmplifier	GEIGH 1001190203575/2020-02-26/304Ff	0.1dB

- 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
- 5. 环境条件(Environmental conditions): 温度(Temperature): 21℃ 相对湿度(Relative Humidity): 62%
- 6. 依据《JJF 1059.1-2012 测量不确定度评定与表示》进行测量结果不确定度评定。评定结果以包含 因子为k的扩展不确定度U或相对扩展不确定度Ure表示。

The evaluation was made according to JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement. The evaluation results were expressed by the extended uncertainty U or relative expanded uncertainty Urel with a coverage factor k.

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。

"P" and "Pass" in this certificate stand for "Low Limit≤the measured value ≤High Limit", "F" and "Fail" stand for "the measured value < Low Limit or the measured value > High Limit", "N/A" stands for "Not Applicable ". The judgment 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.

8. 建议再校日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再校准日期。

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

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Page 3 of 5



数据页(Data sheet) ID: Q524500

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Calibration Certificate of Sound Calibrator





CALIBRATION CERTIFICATE

证书编号: 2HB19001116-0001 Certificate No.



委托单位: Castco Testing Centre Limited 仪器名称: SOUND LEVEL CALIBRATOR Description 型号规格: NC-74 Model/Type 制造商: RION Manufacturer 机身号: 34178129 Serial No. 管理号: AAST-SLC-05 Asset No. 接收日期: 校准日期: 2019年07月03日 2019年07月10日 Rec. Date Cal. Date 签发日期: 建议再校日期: 2019年07月12日 2020年07月10日

App. Date

Conclusion

结论:

Approved by

赛宝计量检测中心 广州总部地址:广州天河区东莞庄路110号 香港分部地址:香港上水剑桥广场G/F2 客服电话: 852-26680871 传真: 852-26686197 投诉电话: 852-26680936 020-87236789 邮件: cal@ceprei.com.hk

同址: www.ceprei-cal.com

Next Cal. Date

所校准项目合格(Passed at Calibration Items)

印章: Stamp

CEPREI Calibration and Testing Center H.Q. Addr: No.110 Dongguanzhuang Road, Tianhe District, Guangzhou CEPREI(H.K.) Addr.: G/F2 Cambridge Plaza sheung Shui N.T. Hong Kong Tel: 852-26680871 Fax: 852-26686197 Complaint phone: 852-26680936 020-87236789 Email: cal@ceprei.com.hk Website: www.ceprei-cal.com Page 1 of 5

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 可, 认可证书号为: CNAS L0462。

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- 详细内容请查看CNAS网站中注册编号为L0462的证书附件、超出范围的内容未被认可。(Please see the attachment of certificate No. L0462 at CNAS website for details, beyond which is not accredited).
- 3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration): 证书号/有效期/溯源单位 技术指标 名 称

(Description) (Certificate No./Due Date/Traceability to) (Specification) GFJGJL1001190203574/2020-02-26/304所 0.05dB~0.1dB 标准传声器/Condenser 前置放大器/Preamplifier GFJGJL1001190203575/2020-02-26/304所 0.1dB

- 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
- 5. 环境条件(Environmental conditions):
- 温度(Temperature): 21°C 相对湿度(Relative Humidity): 62%
- 6. 依据《JJF 1059.1-2012 测量不确定度评定与表示》进行测量结果不确定度评定。评定结果以包含 因子为k的扩展不确定度U或相对扩展不确定度 U_{re} 表示。

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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", "NA"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 F3 , NA 1948 (1947)。 予証 13以日ロリアに別処理が印化以外のラ , 以出人以近年日失時側重的 要求合理使用,如考虑測量结果測量不确定度的影响等。 "P" and "Pass" in this certificate stand for "Low Limit≤the measured value ≤High Limit", "F" and "Fail" stand for "the

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- 2.本次校准结果仅与被校物有关。(The results are only related to the items calibrated.)

Page 3 of 5

Calibration Certificate of Sound Calibrator 赛宝计量检测中心 CEPREI CALIBRATION & TESTING CENTER 证书编号(Certificate No.): 2HB19001563-0001 1. 外观与工作正常性检查(Appearance and Function Check) 无影响证书中校准结果准确度的因素和缺陷。 There are no factor and defect that affect the calibration result accuracy of the certificate. 2. 声压级(Sound Pressure Level) U标称值 误差 允许误差 结论 (Error) (Limit) (Pass/Fail) (k=2) (Reference) (Nominal) (dB) (dB) (dB) (dB) (P/F) (dB) 94 93.8 0.2 ±0.3 0.10 3. 频 率(Frequency) 标称值 标准值 误差 允许误差 结论 $U_{\rm rel}$ (Limit) (Pass/Fail) (Nominal) (Reference) (Error) (Hz) (Hz) (Hz) (Hz) (P/F) (%) 1003.6 -3.6 ±20 0.01 1000 4. 失真度(Distortion) 失真度 允许范围 结论 $U_{\rm rel}$ 声压级 (Limit) (Pass/Fail) (SPL.) (Distortion) (dB) (%) (%) (P/F) (%) 0.85 ≤3 数据页(Data sheet) ID: Q524500 Page 5 of 5

Catalogue of Air Flow Meter (TSI TA440)

SPECIFICATIONS

THERMAL ANEMOMETERS MODELS TA 410, TA 430 AND TA 440

Velocity

0 to 20 m/s (0 to 4,000 ft/min) Range (TA410) Range (TA430, TA440) 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 Accuracy (TA410)182 Accuracy (TA430, TA440) as ±3% of reading or ±0.015 m/s (±3 ft/min), whichever is greater

Resolution 0.01 m/s (1 ft/min)

Duct Size (TA430, TA440)

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

Volumetric Flow Rate (TA430, TA440)

Actual range is a function of velocity, and duct size Range

Temperature Range (TA410, TA430) -18 to 93°C (0 to 200°F) Range (TA440) -10 to 60°C (14 to 140°F) ±0.3°C (±0.5°F) Accuracy^a Resolution 0.1°C (0.1°F)

Relative Humidity (TA440 only)

5 to 95% RH Range Accuracy4 +396 RH Resolution 01% RH

Wet Bulb Temperature (TA440 only) 5 to 60°C (40 to 140°F) Range

Resolution 0.1°C (0.1°F)

Dew Point (TA440 only)

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

Instrument Temperature Range

Operating (Electronics) 5 to 45°C (40 to 113°F) Model TA410, TA430 -18 to 93°C (0 to 200°F) Operating (Probe) Model TA440 -10 to 60°C (14 to 140°F) Operating (Probe) Storage -20 to 60°C (-4 to 140°F)

Data Storage Capabilities (TA430, TA440)

12,700+ samples and 100 test IDs Range

Logging Interval (TA430, TA440)

1 second to 1 hour

Specifications subject to change without notice.



Airflow Instruments, TSI Instruments Ltd. ents.co.uk for more information

Tel: +44 149 4 459200 Tel: +33 491 11 97 64

P/N 2980548 Rev D (A4) @2014 TSI Incorporated Time Constant (TA430, TA440)

User selectable

External Meter Dimensions

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

Meter Weight with Batteries

0.27 kg (0.6 lbs.)

Meter Probe Dimensions

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

Articulating Probe Dimensions

Articulating Section Length 19.7 cm (7.8 in.)

Diameter of Articulating Knuckle 9.5 mm (0.38 in.)

Power Requirements

Four AA-size batteries or AC adapter

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

Temperature compensated over an air temperature range of 5 to 65°C (40 to 150°F).

The accuracy statement begins at 30 filmin through 4000 filmin (0.15 m/s through 20 m/s) for the Model TA410, and 30 filmin through 6,000 filmin (0.15 m/s through 30 m/s) for Models TA430 and TA440.

*Accuracy with instrument case at 25°C (77°F) add uncertainty of 0.09°C/°C (0.05°F/°F) for change in instrument temperature.

*Accuracy with probe at 25°C (77°F). Add uncertainty of 0.2% RH/°C (0.1% RH/°F) for change in probe temperature. Includes 19% by storests.

Germany Tel: +49 241 523030

Calibration Certificate of Air Flow Meter



Calibration Certificate

Certificate No.: CC0362002

1. Description

Calibration item :	a) Air velocity
Equipment description :	Air Velocity Monitor
Manufacturer :	TSI
Type / Model No. :	TA440
Serial No. :	TA4401232005
Assigned equipment no. :	AAST-FLOW-02
Adjustment :	N/A
Remark :	Received with good condition

2. Customer information

Customer:	Castco Testing Centre Limited	- ò
Address :	33, On Kui Street, Fanling, N.T.	SAL
Date of receipt :	21 February 2020	

3. Date of performance of the calibration

Date of calibration : 24 February 2020



Company Chop:

Certificate issue date: 25 February 2020

CT-BEG-02

1. The certificate shall not be reproduced except in full, without written approval of CAL LAB LTD

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

Page 1 of 2 cc0362002

Cal Lab Limited

Address: Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong Tel: (852)25680106 Fax(852)30116194 Email: info@callab.com.hk Website:callab.com.hk



4. Result of Calibration

a	Air ve	

Reference reading; m/s	Reading; m/s	Error of indication; m/s
0.00	0.00	N/A
0.40	0.38	-0.02
1.00	0.95	-0.05
2.00	1.72	-0.28
5.00	4.32	-0.68
6 10.00	9.75	-0.25
15.00	14.85	-0.15
20.00	20.20	0.20

Estimated expanded uncertainty: 4.0%

5. Reference method for calibration

Temperature	JJG (建设) 2001-1992	
-------------	--------------------	--

6. Environment condition of calibration

Temperature ; °C 24.5°C		an What	OVP S
Relative humidity; %RH	57 %RH		

7. Reference equipment used in the calibration

Item		Serial No.	Expiry date	Traceable to
Air velocity meter	405-V1	41543692	1 Jan 2021	SMQ

The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

The standard (s) and instrument used in the calibration are traceable to national or international recognized standard and are calibrated on a schedule to maintain the accuracy and good condition.

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

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

*** End of Certificate ***

CT-END-02 Page 2 of 2

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

cc0362002

Cal Lab Limited

Address: Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong
Tel: (852)25680106 Fax(852)30116194 Email: info@callab.com.hk Website:callab.com.hk

Appendix K – Noise monitoring results and graphical presentation

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

Б.	XX / .1	Measured Noise Level at M11, dB(A)					T			
Date Temp (°C) Wea		Weather	Time		Baseline	\mathcal{L}_{Aeq}	L_{A10}	L_{A90}	Limit	
02/04/2020	20.9	Sunny	11:30	-	12:00	68.3	69.4	71.1	66.2	75
08/04/2020	22.7	Sunny	11:11	-	11:41	68.3	66.9	70.0	62.0	75
14/04/2020	22.6	Sunny	13:40	-	14:10	68.3	71.0	74.0	64.1	75
18/04/2020	27.1	Cloudy	11:15	-	11:45	68.3	65.9	68.5	60.9	75
23/04/2020	27.7	Cloudy	10:05	-	10:35	68.3	71.4	73.4	63.6	75
28/04/2020	25.8	Sunny	10:25	-	10:55	68.3	66.8	70.5	63.4	75
				Maximum			71.4			
			Minimum			65.9				
			Average			69.1				

M12 - Hong Kong Children's Hospital

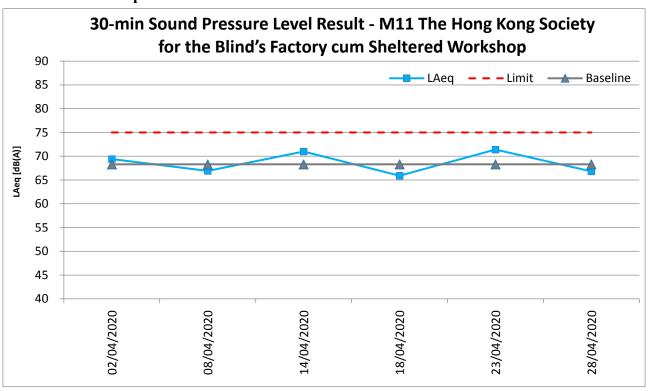
D.	Temp	XX7 .1			Measure	ed Noise Le	vel at M12	, dB(A)		T,
Date	(°C)	Weather	T	[ir	ne	Baseline	L_{Aeq}	L_{A10}	L_{A90}	Limit
02/04/2020	20.9	Sunny	15:15	-	15:45	61.9	65.5	67.3	63.1	75
08/04/2020	22.7	Sunny	9:17	-	9:47	61.9	66.7	67.4	65.5	75
14/04/2020	22.6	Sunny	9:37	-	10:07	61.9	64.7	66.4	62.4	75
18/04/2020	27.1	Cloudy	14:00	-	14:30	61.9	63.6	64.9	62.0	75
23/04/2020	27.7	Cloudy	15:44	-	16:14	61.9	65.6	67.3	63.1	75
28/04/2020	25.8	Sunny	13:23	-	13:53	61.9	66.9	69.2	62.9	75
					Maximum		66.9		•	•

 Maximum
 66.9

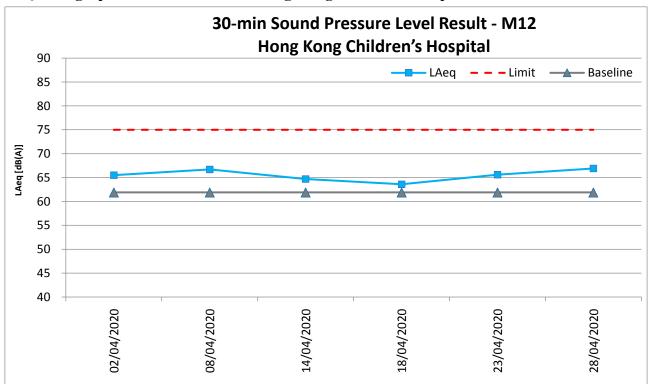
 Minimum
 63.6

 Average
 65.6

 $L_{\text{Aeq, }30\text{-min}}$ 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

F4		Acı	tion	
Event	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded	 Notify Supervisor / ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, Supervisor / 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 	results submitted by the ET; 2. Review the proposed remedial measures submitted by the Contractor and advise the ER accordingly; 3. Advise the Supervisor / ER on the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified.)	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 proposal to IEC and Supervisor / ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified.)
	identified.)		,	
Limit Level being exceeded	 Inform IEC, Supervisor /ER, Contractor and EPD; Repeat measurement to confirm findings; Increase monitoring frequency; Identify source and investigate the cause of exceedance; Carry out analysis of Contract's working procedure; Discuss remedial measures required with the IEC, Contractor and Supervisor /ER; Assess effectiveness of 	remedial actions with Supervisor /ER, ET and Contractor; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified.)	 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 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification; Implement the agreed proposal; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated. (The above actions should be

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

Appendix M –	Event and Actio	n Plan for Lanc	dscape and Visu	ıal 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.		Undertake remedial design if necessary.	
Non-conformity on one occasion	 Identify Source. Inform IEC and Supervisor /ER. Discuss remedial actions with IEC, Supervisor /ER and Contractor. Monitor remedial actions until rectification has been completed. 		 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 Supervisor /ER. Increase monitoring frequency. Discuss remedial actions with IEC, Supervisor /ER and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring. 	Contractor on possible remedial measures.	 Notify Contractor. Ensure remedial measures are properly implemented. 	Amend working methods. Rectify damage and undertake any necessary replacement.

Appendix N – Waste Flow Table



Appendix F - Monthly Summary Waste Flow Table

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

Monthly Summary Waste Flow Table for April 2020

	Actual Quantities of Inert C&D Materials Generated Monthly						al Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly				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 '000m³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
Jan	1.030				1.030						0.0070
Feb	3.535				3.535						0.0008
Mar	13.992			13.075	0.917	0.933					0.0014
Apr	7.491			5.557	1.934	18.77					0.0356
May											
Jun											
Sub-total				1	ı	-	1		-	-	
July											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	26.048			18.632	7.416	19.703					0.0448

	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 '000m³)	(in '000m ³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
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 Licenses and Notification

本署檔號 Our Ref: 445956 來函檔號

Your Ref: 電 話

2755 5518 Tel. No.: 圖文傳真 2756 8588

Fax No.: 電子郵件 E-Mail:

網址 Homepage: http://www.epd.gov.hk/ **Environmental Protection Department Environmental Compliance Division** Regional Office (East)

5th Floor, Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong.



環保法規管理科 十九號南豐商業中心五樓

0049

06/06/2019

Penta-Ocean Construction Co. Ltd Flat 601, K. Wah Centre, 191 Java Road, North Point, Hong Kong

Dear Sirs,

Site /Premises:

Kai Tak Development - Stage 4 Infrastruvture at the former runway and south apron

This is to acknowledge receipt of the following submission(s) on 06/06/2019

Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust)

Regulation

Ref. Number: 445956

Meanwhile, if you have any further questions, please contact the undersigned.

Yours faithfully,

(Customer Service Counter (RE))

for Director of Environmental Protection



	進行指明工序所需的牌照申請
	申壽批准裝置或改裝火爐、烘爐及煙囱
	申請憲天英物許可證 —
	石棉調查報告、石棉箔減計劃,石棉管理計劃,及/或開始
	進行石棉消滅工程通知書
J	空氣污染管制(差造工程塵埃)規例的差造工程逼知言
•	一般工程/訂明寔造工程的寔築噪音許可證申請
	證擊式打養工程的定集噪音許可證申請
	申請空氣壓縮機的噪音標籤
	申請手提ূূূ 章式破碎機的嗓音標籤
	水污染管制條例的排污牌照申請
	申壽化學廢物產生者的登記
	化學產物處置牌照申請
	化學廢物收集牌照申請
	根據條例第17條的規定呈報指定(甲類)化學廢物通知書
	申壽赴准使用容量超逾450公升的化學廢物容器
-	廢物造出口許可證申 壽
	申請批准使用油污分散劑及類似物質
	候物入海許可證申請

如有疑問 等真代行人查詢

本署檔號 Our Ref: EP682/286/0141/I 來函檔號 Your Ref: 電 話 Tel. No.:2117 7539 關文傳真 Fax No.: 2756 8588 電子郵件 E-Mail: 劉 並

Homepage: http://www.epd.gov.hk/

Environmental Protection Department Environmental Compliance Division Regional Office (East)

5th Floor, Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong.



BY REGISTERED POST

26 SEP 2019

Penta-Ocean Construction Co., Ltd. Room 601, K. Wah Centre, 191 Java Road, North Point, Hong Kong

PENTA-OCEAN
0 3 OCT 2019
RECEIVED

Dear Sir/Madam,

Water Pollution Control Ordinance (Cap. 358) Victoria Harbour (Phase Two) Water Control Zone Issue of Licence

I refer to your application for a licence made under Section 19/23/23A* of the Water Pollution Control Ordinance ("the Ordinance"), Chapter 358, for the discharge/deposit from your premises as stated in your application. The licence pursuant to Section 20/23A* of the Ordinance is enclosed. Your attention is drawn to the details, terms and conditions subject to which the licence is granted. You should note, in particular, the stipulated sampling, treatment and disposal requirements and should also read the notes at the back of the licence.

Please note that granting of this licence to you does not imply that the discharge from your premises is in compliance with the required limits as stipulated in the licence. It is your responsibility to ensure that the terms and conditions of the licence are complied with.

You are reminded that it is an offence to contravene any of the provisions specified in the licence. The offender is liable to a fine of \$200,000 and to imprisonment for 6 months.

If you are aggrieved by any of the terms and conditions of the licence, you may appeal to the Appeal Board by lodging a notice of appeal under Section 29 of the Ordinance in the prescribed manner and form within 21 days after receipt of this licence.

Should you have any enquiry, please feel free to contact <u>LEE Yau-hang, Benson</u> at 2117 7527.

Yours faithfully.

(CHAN Wai-lun, William)
Environmental Protection Officer
for Director of Environmental Protection

Encl.: Discharge Licence

* Delete as appropriate



掛號郵件

先生/女士:

《水污染管制條例》(第358章) 維多利亞港(第二期)水質管制區 發出排污牌照事宜

你根據香港法例第 358 章《水污染管制條例》(「本條例」)第 19/23/23A*條 就你的申請所述處所排放的污水/沉積物向本署遞交的牌照申請書已經收悉。現寄 上根據本條例第 20/23A*條簽發的牌照。請留意發出牌照的細節、條款及條件,尤須 注意有關取樣、處理及排放等事宜的規定,另請細讀牌照背頁的附註。

獲簽發本牌照並不表示從你的處所排出的污水或污染物質已達到牌照所規定的排 放限度。你必須採取必要措施,以確保符合牌照中的條款及條件。

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如你對牌照所載的條款及條件感到不滿,可於收到本牌照後 21 天內,按本條例 第 29 條的規定,使用訂明的方式及表格,向上訴委員會遞交上訴通知書,提出上 訴。

如有查詢,請致電 2117 7527 與本署 李有恒 聯絡。

環境保護署署長 (環境保護主任) (陳偉麟代行)

附件:排污牌照

* 將不適用者删去







Licence No.: WT00034610-2019 牌照編號: WT00034610-2019

This Licence is Valid to: 本牌昭有效期至

30 September 2024 二〇二四年九月三十日

ENVIRONMENTAL PROTECTION DEPARTMENT 環境保護署

WATER POLLUTION CONTROL ORDINANCE (CAP. 358) 水污染管制條例(第358章)

LICENCE PURSUANT TO SECTION 15/20/23A* 按第 15 / 20/ 23A*條簽發的牌照

The Director of Environmental Protection ("the Authority") grants this licence under the Water Pollution Control Ordinance ("the Ordinance") on the terms and conditions stated below.

環境保護署署長(「監督」)按下列的條款及條件,根據水污染管制條例(「本條例」)批給此牌照。

26 September 2019

Date

日期

hanha-CHAN Wai-lun, William)

For the Authority

陳偉麟 代行)

PARTA 甲部 GENERAL TERMS 一般條款

Name of Licensee ("the Licensee") 持牌人名稱(「持牌人」)	Penta-Ocean Construction Co., Ltd.
Discharge Premises ("the premises")	Construction Site of Kai Tak Development – Stage 4 Infrastructure at the Former Runway and South Apron, Kowloon City, Kowloon (CEDD Contract No. ED/2018/01) (See Annex I)
排放處所(「處所」)	九龍九龍城啟德發展-前跑道和南停機坪的第4階段基礎設施之建築地盤 (土木工程拓展署合約編號 ED/2018/01) (參見附件 I)
Water Control Zone	Victoria Harbour (Phase Two) Water Control Zone
水 質 管 制 區	维多利亞港(第二期)水質管制區
Discharge Category	Discharge of industrial trade effluent
排 放 種 類	工業污水排放
Nature of Discharge and Wastewater	Effluent, Surface Run-off, and all other wastewater discharges from the premises 上址排放的污水、地面徑流水及其他的廢水
Treatment Facilities	Screen, pH Adjustment, Sedimentation Tank and Chemical Precipitation
排放性質及廢水處理設施	隔濾設施,酸鹼值調節,沉澱池及化學沉降缸
Discharge Point(s)	Discharge into communal storm water drain
排 放 點	排放入公用雨水渠
Sampling Point(s)	Discharge outlet(s) of Wastewater Treatment Facility marked S.P. on Annex II attached
取 樣 點	参見附件 II 中標指 S.P.的廢水處理設施的出水口

-1-

*Delete as appropriate 將不適用者剛去

Reference No. 参考編號 EP682/286/0141/I

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EPD156

SPECIFIC CONDITIONS 特別條件 PARTB 乙部

B1. Limitations on Discharge 排放限制

The quantity and composition of any discharge from the premises shall not exceed the limits stated in the table below(Note a). All figures are upper limits unless otherwise indicated. All units are expressed as concentration in milligramme per litre unless otherwise stated.

任何源自處所之排放的量和成份不得超過下表所列的限度^{例胜制。}除另予表明外,所有數字均為上限。除另予說明 外,所有單位均以毫克/升的濃度表示。

Determinand 測量物	Limit 限度
Flow Rate (m³ / day) 流量(立方米/日)	60
pH (pH units) 酸鹼值 (pH 單位)	6-9#
Suspended Solids 懸浮固體	30
Chemical Oxygen Demand 化學需氧量	80

Range 上下限

B2. Self-monitoring and Reporting 自行監測及報告

The Licensee shall perform self-monitoring as and when required by the Authority. 持牌人須在監督要求時進行自行監測。

M The Licensee shall sample the discharge at the Sampling Point(s) and, at his own expense carry out analyses in accordance with the sample type and measurement frequency specified for each determinand named below:-

持牌人須在取樣點為排放抽取樣本,並依照下列指定的測量物、取樣形式及頻率,自資予以分析。

Unit 單位 Sample Type 取樣形式 Frequency 頻率 Determinand 測量物 Suspended Solids mg/L Grab Quarterly 懸浮因體 毫克/升 隨意取集 每三個月一次

Results of these monitoring shall be summarized in a report Monthly/Bi-monthly/Quarterly/Yearly* basis and shall be submitted to the Authority. 所有監測結果須以摘要形式,每一個月/兩個月/三個月/年*作出報告,並須呈交監督審閱

PART C 丙部 : STANDARD CONDITIONS 標準條件

C1. The Discharge 排放

C1.1 The discharge shall not contain polychlorinated biphenyls (PCB), polyaromatic hydrocarbon (PAH), fumigant, pesticide or toxicant, chlorinated hydrocarbons, flammable or toxic solvents, calcium carbide; any substance likely to damage the sewer or to interfere with any of the treatment processes. or to be harmful to the health and safety of any personnel engaged in the operation or maintenance of a sewerage system; waste liable to form scum or deposits in any part of the drainage or sewerage system, or the waters of Hong Kong; waste liable to form discolouration in any parts of the waters of Hong Kong; sludge, floatable substances or solids larger than 10 mm; and sludge or solid refuse of any kind.

排放不得含有多氯聯苯、聚芳烴、薰蒸劑、殺蟲劑或毒劑、氯化烴、可燃的或有毒的溶劑、碳化鈣;會損 毀污水渠結構或干擾任何處理程序的物質,或有損操作及維修排污系統人員健康及安全的任何物質;足以 在排水或排污系統,或香港水域任何範圍內形成浮渣或沉積物的廢物;足以在香港水域任何節圍內形成變 色的廢物:污泥、漂浮物質或體積超越10毫米的固體;及任何種類的污泥或固體垃圾

C1.2 No discharge shall bypass the wastewater treatment facilities, the Sampling Point(s) or the Discharge Point(s) unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternative exists.

除非避免人命傷亡或嚴重財物損失或無其他可行代替辦法,排放不得繞流不經其廢水處理設施,取樣點或

C1.3 Dilution of the discharge to achieve compliance with the limits contained in this licence is prohibited. 不得將排放稀釋,以求達到本牌照內所訂的限度。

C2. Flow Measurement 量度流量

The Licensee shall determine the flow rate of the discharge by installing, operating and maintaining a continuous flow measuring device with an accuracy certified by its manufacturer to be within plus or minus 3 percent of the actual flow, and calibrating the flow measuring device regularly according to manufacturer's recommendations. If no such device is installed, the Licensee shall determine the flow rate through using calculation methods agreed by the Authority, by making reference to the amount of water used in the premises being served by mains supply and other sources, less process consumption and any other losses.

持牌人必須設置、操作及保養一個連續性流量計作為測定排放的流量率之方法,其準確程度須經製造商證實為不 超逾或低於真正流量的3%,並應根據製造商建議的方法,定期校準流量計。如沒有設置該設備,持牌人須依照 監督同意的計算方法,根據處所由自來水及其他水源供應的總用水量減去工序耗水量及其他耗水量來測定流量

C3. Treatment 處理

C3.1 The Licensee shall provide necessary wastewater treatment facilities, and shall engage personnel with adequate qualification and experience to properly operate and maintain all wastewater treatment facilities at all times. Standby equipment shall be provided to guard against failure of major treatment equipment.

持牌人須提供必需的廢水處理設施,並須僱用有足夠資格及經驗的人士,時常妥善操作及保養所有廢水處 理設施。主要處理設施須配有後備裝置,以應付故障發生。

C3.2 In the event of loss of efficiency of operation, or failure of all or part of the wastewater treatment facility, the Licensee shall take all reasonable steps to the extent necessary to maintain compliance with this licence. Such steps shall remain until operation of the wastewater treatment facility is restored or an alternative method of treatment is provided.

倘若部份或整個廢水處理設施操作失鹽或發生故障,持牌人須採取所有必要的合理措施,以求達到符合本 牌照的規定。此等措施須維持至廢水處理設施恢復如常操作或有其他代替的處理方法可供採用為止。

C3.3 If the wastewater treatment facilities are not properly operated and maintained to the satisfaction of the Authority, the Licensee shall take immediate and effective remedial actions as required by the

倘若廢水處理設施的操作及保養未能令監督滿意,持牌人須按監督之規定,採取即時及有效的補救行動。

C4. Disposal 棄置

Sludges, screenings, solids, oil and grease, filter backwash, or other pollutants removed in the course of treatment shall be disposed of in a proper manner (Note b & c)

處理過程中所產生的污泥、隔濾物、固體、油脂、過濾器回洗或其他污染物,必須妥善地棄置때時以口

C5. Monitoring 監測

C5.1 The Licensee shall provide and maintain suitable and accessible facility such as an inspection chamber. manhole or sampling valve at each Sampling Point to enable duly authorized officer(s) of the Authority to take samples of the discharge at any time from the premises.

持牌人須在每一個取樣點提供及保養適當及可容易到達的設施,例如檢查槽,沙井或取樣閥,以確保獲監 督授權的人員隨時可在處所內抽取排放樣本。

C5.2 For self-monitoring, "grab samples" shall be taken during the period when the determinand to be analyzed for is likely to be present in its maximum concentration. "Composite samples" shall include samples taken over daily duration of the discharge.

在自行監測中,「防寬取集樣本」須在測量物的濃度很可能是最高的那段時間內抽取。「綜合樣本」須包 含在每日排放期間不同時候所抽取的樣本。

C5.3 For self-monitoring, all samples shall be analyzed in accordance with the most updated analytical methods used by the Government Chemist (Note d).

在自行監測中,所有樣本均須按照政府化驗師所採用的最新分析方法予以分析「Rittel)。

C6. Records and Reporting 紀錄及報告

C6.1 The Licensee shall keep the following records in the premises for inspection by duly authorized officer(s) of the Authority:

持牌人須在處所內保存下列紀錄,以備獲監督授權的人員廢時查閱:

- (i) records of flow rate, nature and composition of the discharge; 排放流量率、性質及成份的紀錄;
- updated records of all monitoring information, including all laboratory analytical results relating to samples taken, all original chart recordings for continuous flow and pH monitoring; and 所有最新監測資料的紀錄,包括所有關於已取樣本的檢驗分析結果、所有連續性流量及酸鹼值監測 記錄圖表的正本; 及
- (iii) records of all desludging and degreasing operation, and records of corresponding disposal operation.

所有清除污泥和清理隔油池廢物工序的紀錄,及其棄置工序的紀錄。

Copies of all such records shall be submitted to the Authority upon request.

在監督要求時,須向監督呈交所有該等紀錄的副本。

C6.2 The Licensee shall notify and explain to the Authority: Director of Environmental Protection, Regional Office (E), Kowloon City Section by fax (fax no.: 2756 8588) or electronic mail (email address: hotline e@epd.gov.hk) within 24 hours upon the occurrence of an accidental discharge or any emergency bypass or an overflow of untreated effluent or an operation upset which places the discharge in a temporary state of non-compliance with this licence. The Licensee shall within 7 days following the incident, submit to the Authority a detailed report in writing on the cause and duration of the non-compliance and steps taken or to be taken to reduce, eliminate, or prevent recurrence of such non-compliance. Reporting in accordance with this Condition does not relieve the Licensee of any obligations imposed by this licence.

倘若有未經處理的污水意外排放、緊急繞流或溢滿的事件或操作失靈,引至排放出現短暫不符合牌照規定 的情況,持牌人須在事發後 24 小時內以傳真(傳真號碼: 2756 8588)或電郵(電郵地址: hotline e@epd.gov.hk) 通知監督:環境保護署署長,區域辦事處(東) 九龍城區,並予以解釋。持牌人須 在事故發生後7天內,以書面報告,詳述事件的起因、違反牌照條件的時間及為減少、消除或防止類似事 件再次發生所採取或將會採取的措施,送交監督審閱。然而,按照本條件的規定提交報告並不表示持牌人 可獲免除承擔本牌照內所載的任何責任。

C7. Operation Manual 操作手册

The Licensee shall prepare an operation manual which shall include, as a minimum, operating procedures, inspection programme and repair and maintenance programme for the wastewater treatment facilities. The operation manual shall be kept at the aforesaid wastewater treatment facilities and a copy of the manual shall be submitted to the Authority upon request.

持牌人須擬備廢水處理設施的操作手冊。手冊內容須最低限度包括操作程序、檢查、維修及保養工作計劃表。該 手冊須保存在上述廢水處理設施內。持牌人須在監督要求時,呈交手冊副本乙份。

C8. Notification of Change 更改通知

The Licensee shall notify the Authority: Director of Environmental Protection, Regional Office (E), Kowloon City Section by fax (fax no.: 2756 8588) or electronic mail (email address: hotline e@epd.gov.hk) -4in writing within 14 days of any changes or proposed changes in the wastewater treatment methods/facilities, the processes of manufacture or the nature of the raw materials used or of any other circumstances which may alter the nature and composition of the discharge or may result in the permanent cessation of the discharge.

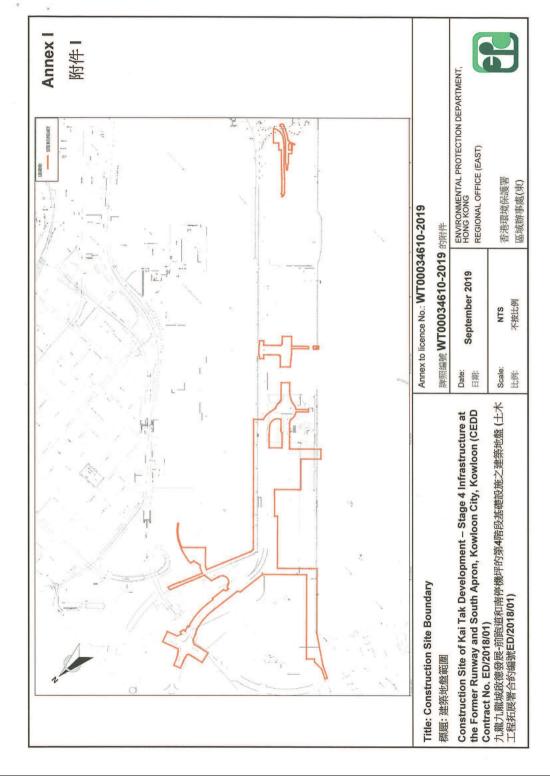
倘若持牌人更改或擬更改其廢水處理設施、生產程序、或所用原料的性質、或有其他足以改變其排放的性質及成份或可導致永久性終止排放的事情,必須在 14 日內以傳真(傳真號碼: 2756 8588)或電郵(電郵地址: hotline_e@epd.gov.hk) 書面通知監督:環境保護署署長,區域辦事處(東)九龍城區。

Notes 附註

- (a) For the purposes of determining compliance with the limits stated in Specific Condition B1, samples shall be taken by the duly authorized officer(s) of the Authority at the Sampling Point(s) or any other points from which the samples so taken are regarded by the duly authorized officer(s) as being representative of the quality of the discharge. When any single sample analyzed for a determinand is proved not complying with corresponding limit set out in the table, the discharge is deemed to have failed to comply with Specific Condition B1.
 - 為確定排放是否符合特別條件第 B1 項內所列的限度,獲監督授權的人員須在取樣點或在認為可以抽取到具代表性的樣本的任何其他位置抽取樣本。只要在任何一個經分析的樣本中,證實任何一個測量物不符合表中所列的相應限度時,排放即被視為不符合特別條件第 B1 項。
- (b) An example of proper disposal method for sludge is sending dewatered sludge to landfill for disposal. 妥善集置污泥方法中的一個例子是將脫水後的污泥運往堆填區棄置。
- (c) Proper disposal of grease trap waste includes but is not limited to employing registered grease trap waste collector to conduct the disposal work. All registered collectors should have a Certificate of Registration issued by the Environmental Protection Department. The most updated list of the registered collectors can be obtained from the Environmental Protection Department. 安善的隔油池廠物棄置方法包括卻不限於聘用已登記的隔油池廠物收集商雖行開的棄置工作。所有已登記的隔油池廠物收集商最新名單,可向環境保護署套取。
- (d) The Licensee may make reference to Annex I of the <Technical Memorandum on Effluent Standards> for analytical methods used by the Government Chemist.

 持牌人可參照「流出物標準技術備忘錄」附件 1 有關政府化驗師所採用的分析方法。
- (e) The Licensee shall keep this licence in the premises and make it available at all times for inspection by duly authorized officer(s) of the Authority.

 持牌人須在處所內保存此牌照,以備獲監督授權的人員廢時查閱。
- (f) (i) The Licensee shall allow duly authorized officer(s) of the Authority to enter the premises for the purposes of inspection, sampling, records examination or any other duties authorized by Section 37 and Section 38 of the Ordinance. 持限人獨准計獲監督授權的人員進入處所內進行檢查、抽取樣本、審查紀錄或執行其他根據本條例第 37 及第 38 條 任任機構的關係。
 - (ii) Where the premises has security measures in force which would require proper identification and clearance before entry, the Licensee shall make necessary arrangements such that upon presentation of evidence of identity and of authorization, duly authorized officer(s) will be permitted to enter, without delay, for the purposes of performing duties. 倘若由於處所的保安理由而需先行鑑定來人的身份,持陳人必須作出必要的安排,以便獲授權人員在出示身份證明及授權文件後,則可內推執行其職務而不致受延課。
- (g) (i) For a licence granted under Section 15 of the Ordinance, the Licensee may, not less than 2 months before expiry of the licence, apply under Section 19 of the Ordinance for a new licence. The Authority may grant the licence or otherwise. 持有根據本條例第 15 條所批給牌照的人士,可於牌照屆滿前不少於 2 個月內,根據本條例第 19 條的規定,申請面新牌照。監督可批給或拒絕批給牌照。
 - (ii) For a licence granted under Section 20 or 23A of the Ordinance, the Licensee may, not more than 4 months and not less than 2 months before expiry of the licence, apply under Section 23 or 23A respectively of the Ordinance for renewal of licence. The Authority may renew the licence or otherwise. 持有根據本條例第 20 條或第 23 A 條所批給牌照的人士,可於牌照屆滿前不多於 4 個月及不少於 2 個月內,根據本條例的第 23 或 23 A 條的規定,申請牌照續期。監督可將牌照續期或拒絕將牌照續期。
- (h) Under Section 24 of the Ordinance, the Authority may by notice in writing, impose new or amended terms and conditions on this licence or cancel this licence. Under Section 25, 26 and 27 of the Ordinance, a Licensee whose licence has been so varied or cancelled may be entitled to compensation. 根據本條例第 24 條的規定,監督可以書面通知,向本牌照施加新訂或經修訂的條款及條件,或取消本牌照。根據本條例第 25、26 及 27 條的規定,被更改或消牌照的持牌人可能會獲得補償。
- (i) Under Section 28 of the Ordinance, the Licensee may apply to the Authority for a variation of this licence. 根據本條例第 28 條的規定,持牌人可向監督申請更改本牌照。
- (j) Under Section 49 of the Ordinance, this licence shall not be construed as a dispensation from the requirements of any other Ordinance except where that other Ordinance so provides. 根據本條例第 49 條的規定,本牌照述不得解釋為豁免符合任何其他條例的規定,除非該其他條例如此訂定。
- (k) The licensee should ensure good practice is carried out in dealing with discharges from the construction site. The licensee should make reference to the EPD's Practice Note for Professional Persons, No. PN 1/94, "Construction Site Drainage." 持牌人領確保安善處理地盤之去水排放。持牌人可參考環保署印發之 Practice Note for Professional Persons, 編號 PN 1/94, "Construction Site Drainage"。





Wastewater Treatment Facility 廢水處理設施

Sampling Point (S.P.) at sampling valve of the discharge outlet of Wastewater Treatment Facility

取樣點(S.P.) 位於廢水處理設施出水口的取樣閥

Title: Wastewater Treatment Facility and Sampling Point (S.P.) 標題: 廢水處理設施 及取樣點 (S.P.)

Construction Site of Kai Tak Development – Stage 4 Infrastructure at the Former Runway and South Apron, Kowloon City, Kowloon (CEDD Contract No. ED/2018/01)
九龍九龍城稅應發展-前跑道和南停機坪的第4階段基礎設施之建築地盤 (土木工程拓展署合約編號ED/2018/01)

Annex to licence No.: WT00034610-2019 牌照編號 WT00034610-2019 的附件 September 2019





附件 ||



本署檔號
Our Ref:EP682/286/0141/I
來函檔號
Your Ref: 信
市 Tel. No.:2117 7539
圖文傳真
Fax No.:2756 8588
電子郵件
E-Mail:

Homepage: http://www.epd.gov.hk/

Environmental Protection Department Environmental Compliance Division Regional Office (East)

5th Floor, Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong.



環境保護署環保法規管理科區域辦事處(東)香港九龍九龍灣臨業街十九號南豐商業中心五樓

1316

BY REGISTERED POST

2 5 FEB 2020

Penta-Ocean Construction Co., Ltd. Room 601, K. Wah Centre, 191 Java Road, North Point, Hong Kong

PENTA-OCEAN
2 7 FEB 2020

Dear Sir/Madam,

Water Pollution Control Ordinance (WPCO) (Cap 358) (Licence No: WT00034610-2019) Variation of Licence Pursuant to Section 28 of WPCO

I refer to your application dated <u>19/11/2019</u> made under Section 28 of the WPCO for the variation of your captioned licence granted on <u>26/09/2019</u>. The Authority, pursuant to Section 28(4) & (7), hereby grants the application with the following variations.

- Sampling Points and Wastewater Treatment Facilities
- The limitations on discharge in Part B shall be varied from the existing limits to the new limits
- Self-monitoring and Reporting

Part A, B, Annex II, III & IV of your captioned licence shall be replaced by the corresponding Part shown in the Appendix of this letter with immediate effect.

This letter plus the remaining valid parts of your captioned licence shall form the varied licence. Please therefore attach this letter to your captioned licence. Please also note that the expiry date remains unchanged and the varied licence is valid up to 30/09/2024.

The granting of the application does not imply that the discharge/deposit from your premises is in compliance with the required standards and limits as stipulated in the varied licence. It is your responsibility to ensure that the terms and conditions of the varied licence are fully complied with.

Should you have any enquiry, please feel free to contact $\underline{\text{TONG Tsz-shan, Viviana}}$ at 2117 7527.

Yours faithfully,

(CHAN Wai-lun)

Environmental Protection Officer for Director of Environmental Protection

Encl.: Appendix 再造紙 RECYCLED PAPER 掛號郵件

先生/女士:

《水污染管制條例》(第358章) 牌照編號: WT00034610-2019 根據《水污染管制條例》第28條更改牌照

你在二零一九年十一月十九日根據《水污染管制條例》第28條遞交了更改在二零一九年九月廿六日發出的上述牌照的申請。監督根據《水污染管制條例》第28(4)及(7)條批准有關申請,並作出以下更改:

- 取樣點及廢水處理設施
- 乙部的排放限制將由現時的上限更改至新上限
- 自行監測及報告

上述牌照的 甲、乙、附件 II、III 及 IV 部分將由本函附錄所示的相應部分取代,即時生效。

本函連同上述牌照的餘下有效部分將構成修訂牌照,因此請將本函附於上述牌照。請注意,牌照屆滿日期維持不變,而修訂牌照的有效期至二零二四年九月三十日。

申請獲得批准並不代表你處所的排放/沉積物符合修訂牌照的訂明標準及上限。你必須確保完全遵守修訂牌照的條款及條件。

如有查詢,請致電 2117 7527 與本署 唐紫珊 聯絡。

環境保護署署長 (環境保護主任) (陳偉麟代行)

連附錄



R

Appendix 附錄

Licence No.: WT00034610-2019 牌照編號: WT00034610-2019

This Licence is Valid to: 30/09/2024 本牌照有效期至:二零二四年九月三十日

ENVIRONMENTAL PROTECTION DEPARTMENT 環境保護署

WATER POLLUTION CONTROL ORDINANCE (CAP. 358) 水污染管制條例(第358章)

LICENCE PURSUANT TO SECTION 15/20/23A* 按第 15 / 20/ 23A*條簽發的牌照

The Director of Environmental Protection ("the Authority") grants this licence under the Water Pollution Control Ordinance ("the Ordinance") on the terms and conditions stated below.

環境保護署署長(「監督」)按下列的條款及條件,根據水污染管制條例(「本條例」)批給此牌照。

21 February 2020

Date 日期 (CHAN Wai-lun

For the Authority

陳偉麟

代行)

PART A 甲部 : GENERAL TERMS 一般條款

Name of Licensee ("the Licensee") 持牌人名稱(「持牌人」)	Penta-Ocean Construction Co., Ltd.
Discharge Premises ("the premises") 排放處所(「處所」)	Construction Site of Kai Tak Development — Stage 4 Infrastructure at the Former Runway and South Apron, Kowloon City, Kowloon (CEDD Contract No. ED/2018/01) (See Annex I) 九龍九龍城啟德發展-前跑道和南停機坪的第4階段基礎設施之建築地盤 (土木工程拓展署合約編號 ED/2018/01) (參見附件 I)
Water Control Zone	Victoria Harbour (Phase Two) Water Control Zone
水 質 管 制 區	維多利亞港(第二期)水質管制區
Discharge Category	Discharge of industrial trade effluent
排 放 種 類	工業污水排放
Nature of Discharge and Wastewater	Effluent, Surface Run-off, and all other wastewater discharges from the premises 上址排放的污水、地面徑流水及其他的廢水
Treatment Facilities	Screen, Chemical Precipitation, pH adjustment and Sedimentation Tank
排放性質及廢水處理設施	隔滤設施、化學沉降、酸鹼值調節及沉澱池
Discharge Point(s)	Discharge into communal storm water drain
排 放 點	排放入公用雨水渠
Sampling Point(s) 取樣點	Discharge outlet(s) of Wastewater Treatment Facility marked S.P. 1, S.P. 2 & S.P. 3 on Annex II, III & IV 参見附件 II 、III 及 IV 中標指 S.P. 1、S.P. 2 及 S.P. 3 的廢水處理設施的出水口

-1-

*Delete as appropriate 將不適用者酬去

Reference No. 参考编號 EP682/286/0141/1

Printed on Recycled Paper

EPD156

PART B 乙部 : SPECIFIC CONDITIONS 特別條件

B1. Limitations on Discharge 排放限制

The quantity and composition of any discharge from the premises shall not exceed the limits stated in the table below^(Note a). All figures are upper limits unless otherwise indicated. All units are expressed as concentration in milligramme per litre unless otherwise stated.

任何源自處所之排放的量和成份不得超過下表所列的限度^{明正3。}除另予表明外,所有數字均為上限。除另予說明 外,所有單位均以毫克/升的濃度表示。

Determinand 測量物	Limit 限度
Flow Rate (m³ / day) 流量(立方米/日)	195
pH (pH units) 酸鹼值 (pH 單位)	6-9#
Suspended Solids 懸浮固體	30
Chemical Oxygen Demand 化學需氧量	80

Range 上下限

B2. Self-monitoring and Reporting 自行監測及報告

☐ The Licensee shall perform self-monitoring as and when required by the Authority. 持牌人須在監督要求時進行自行監測。

□ The Licensee shall sample the discharge at the Sampling Point(s) and, at his own expense carry out analyses in accordance with the sample type and measurement frequency specified for each determinand named below:

持牌人須在取樣點為排放抽取樣本,並依照下列指定的測量物、取樣形式及頻率,自資予以分析。

Determinand 測量物
Suspended Solids
機学固體Unit 單位
mg/LSample Type 取樣形式
GrabFrequency 頻率
Bimonthly
每兩個月一次

Results of these monitoring shall be summarized in a report on a Monthly/Bi-monthly/Quarterly/Yearly* basis and shall be submitted to the Authority.

所有監測結果須以摘要形式,每一個月/兩個月/三個月/年*作出報告,並須呈交監督審閱。

*Delete as appropriate 將不適用者副去



Wastewater Treatment Facility (1) 廢水處理設施(1)

Sampling Point (S.P. 1) at sampling valve of the discharge outlet of Wastewater Treatment Facility (1)

取樣點(S.P. 1)位於廢水處理設施(1)出水口的取樣閥

Title: Wastewater Treatment Facility (1) and Sampling Point (S.P. 1) 標題: 廢水處理設施(1)及取樣點(S.P. 1)

Construction Site of Kai Tak Development – Stage 4 Infrastructure at the Former Runway and South Apron, Kowloon City, Kowloon (CEDD Contract No. ED/2018/01)

九龍九龍城啟德發展。前跑道和南停機坪的第4階段基礎設施之建築地盤 (土木工程拓展署合約編號ED/2018/01)

Annex II

附件Ⅱ



Annex to licence No.: WT00034610-2019

牌照編號 WT00034610-2019 的附件

Scale: NTS 比例: 不按比例 ENVIRONMENTAL PROTECTION DEPARTMENT, HONG KONG REGIONAL OFFICE (EAST)

香港環境保護署 區域辦事處(東) 9



Wastewater Treatment Facility (2) 廢水處理設施(2)

Sampling Point (S.P. 2) at sampling valve of the discharge outlet of Wastewater Treatment Facility (2)

取樣點(S.P. 2)位於廢水處理設施(2)出水口的取樣閥

Title: Wastewater Treatment Facility (2) and Sampling Point (S.P. 2) 標題: 廢水處理設施(2)及取樣點(S.P. 2)

Construction Site of Kai Tak Development – Stage 4 Infrastructure at the Former Runway and South Apron, Kowloon City, Kowloon (CEDD Contract No. ED/2018/01)

九龍九龍城啟德發展-前跑道和南停機坪的第4階段基礎設施之建築地盤 (土木工程拓展署合約編號ED/2018/01)



Annex to licence No.: WT00034610-2019

牌照編號 WT00034610-2019 的附件

Scale: NTS 比例: 不按比例 ENVIRONMENTAL PROTECTION DEPARTMENT, HONG KONG

REGIONAL OFFICE (EAST)

香港環境保護署 區域辦事處(東)



Annex III 附件 III



Wastewater Treatment Facility (3) 廢水處理設施(3)

Sampling Point (S.P. 3) at sampling valve of the discharge outlet of Wastewater Treatment Facility (3)

取樣點(S.P. 3)位於廢水處理設施(3)出水口的取樣閥

Title: Wastewater Treatment Facility (3) and Sampling Point (S.P. 3) 標題: 廢水處理設施(3)及取樣點(S.P. 3)

Construction Site of Kai Tak Development – Stage 4 Infrastructure at the Former Runway and South Apron, Kowloon City, Kowloon (CEDD Contract No. ED/2018/01)
九龍九龍城政德發展-前距鎖和南停機坪的第4階段基礎設施之建築地盤 (土木工程拓展署合約編號ED/2018/01)

Annex IV

附件IV



Annex to licence No.: WT00034610-2019

牌照編號 WT00034610-2019 的附件

不按比例

比例:

ENVIRONMENTAL PROTECTION DEPARTMENT, HONG KONG REGIONAL OFFICE (EAST) NTS

> 香港環境保護署 區域辦事處(東)

0119

本署檔號 OUR REF .:

來函檔號

YOUR REF .:

TEL. NO .: 圖文傳真 FAX NO .:

2591 0361

RE04380

2872 1769

HOMEPAGE: http://www.epd.gov.hk

Environmental Protection Department Environmental Infrastructure Division

> 88 Victoria Road. Kennedy Town. Hong Kong.

RECEIVED



環境保護署 環境基建科 堅尼地城 域多利道88號

Friday, 28 June, 2019

PENTA-OCEAN CONSTRUCTION CO., LTD.

FLAT/ROOM 601, K. WAH CENTRE, 191 JAVA ROAD, NORTH POINT,

HONG KONG

Attn.: CHOI CHONG KEI

0 3 JUL 2019 PENTA-OCEAN

Dear Sir/Madam.

Waste Disposal (Charges for Disposal of Construction Waste) Regulation Approval of Application for Billing Account (Construction work contract with value of \$1 million or above) Application No.: RE04380

I am pleased to inform you that your application for billing account for disposal of construction waste under the following construction work contract has been approved under Section 6 and 9 of the Waste Disposal (Charges for Disposal of Construction Waste) Regulation:

Contract No.: ED/2018/01

Contract Name: KAI TAK DEVELOPMENT - STAGE 4 INFRASTRUCTURE AT THE FORMER RUNWAY

AND SOUTH APRON

Construction Waste Generated Site: KAI TAK THE FORMER RUNWAY AND SOUTH APRON

The account number is 7034450. Please quote this account number for enquiries in relation to the billing account.

You are bound by the "Basic Conditions" and "Conditions of Use" accompanied with this account for disposal of construction waste at the prescribed facilities. You shall ensure that (a) the billing account established solely for the contract as stated above is used for paying any prescribed charge payable in respect of construction waste generated from construction work undertaken under the above contract; and (b) that billing account is not used for paying any prescribed charge payable in respect of any other construction waste not generated from construction work undertaken under the contract as stated above.

Regarding your application for issuance of chits, a demand note for the deposit required will be sent to you accordingly. Request for additional chits can be made using "Form 4". Please note that one chit is required for each load of construction waste to be disposed of at prescribed facility.

Should you have any queries, please contact us at 2872 1769.

Yours faithfully,

(K O Yeung)

Principal Environmental Protection Officer for Director of Environmental Protection





本署檔號 Our Ref

447046

來函檔號 Your Ref: 2117 7539 電話 Tel. No.:

2756 8588

圖文傳真 Fax No.: 電子郵件 E-Mail: 網址

Homepage: http://www.epd.gov.hk/

Environmental Protection Department Environmental Compliance Division Regional Office (East)

> 5th Floor, Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong.



香港九龍九龍灣臨樂街 十九號南豐商業中心五樓

3 1 JUL 2019

By Registered Post

PENTA-OCEAN CONSTRUCTION CO., LTD. FLAT 601, K. WAH CENTRE, 191 JAVA ROAD, NORTH POINT, HONG KONG

PENTA-OCEAN 0 2 AUG 2019 RECEIVED

Dear Sir/Madam.

Waste Disposal Ordinance (Cap. 354) Waste Disposal (Chemical Waste) (General) Regulation Registration as a Chemical Waste Producer Completion of Registration

I am pleased to inform you that your registration with this department as a chemical waste producer has been completed.

The assigned Waste Producer Number (WPN) and the particulars of your establishment are printed in the enclosed form (EPD 130). If you consider there are any discrepancies about the particulars, please notify me immediately, quoting the assigned WPN.

The "EPD 130" is an important document, please archive appropriately. This registration is not transferable and will be valid only in respect of the applicant and the premises registered. In future when there is change in the registration particulars, you should inform this department as soon as possible so that our record can be amended accordingly. Under section 7 of the above regulation, failure to notify this department of relevant changes is an offence and liable to a maximum fine of HK\$10,000.

For enquiries, please contact us at Tel 2117 7546.

Yours faithfully,

(CHAN Wai-lun, William)

Environmental Protection Officer for Director of Environmental Protection

Encl.



掛號函件

先生/女士:

香港法例第三五四章廢物處置條例 廢物處置(化學廢物)(一般)規例 化學廢物產生者 完成登記程序

本署已完成辦理 貴機構申請登記為「化學廢物產生者」。現隨信附上EPD 130表格:載有 貴機 構的各項資料及你的「化學廢物產生者」編號。請即核對表格內的各項資料,如有錯漏,請即聯絡 本署職員以便更正。通訊時讀註明你的化學廢物產生者編號。

EPD 130 表格是一份重要文件,請妥善存檔。同時,是項登記,不得轉讓,並只適用於已登記 的申請人/機構及有關地址。日後如果已申報的資料有變更,你應馬上通知本署,以便修正紀錄。 按照上述規例第七條規定,任何人倘未有將變更資料及時呈報,乃屬違例行為,一經定罪,可被判 罰款最高港幣一萬元正。

若有任何疑問,請致軍 2117 7546 與本署職員聯絡。

(環境保護主任

附件

Environmental Protection Department 環境保護署

Waste Disposal Ordinance (Chapter 354)

香港法例第354章廢物處置條例

Waste Disposal (Chemical Waste)(General) Regulation

廢物處置(化學廢物)(一般)規例

Registration of Waste Producer

廢物產生者登記證

To: 致	Chemical Waste	Full Name 全 名	(English) (英 文)	PENTA-0	OCEAN CONS	TRUCTION CO.	, LTD.	11
	Producer 化學廢物產	(Chinese) (中 文)	51000000				d No. (if any) 碼:(如有者)	
	生者	Business Reg 商業登記證			07818486-0		(2012 11)	
		Address for C 通 訊 地 均	orresponden <u>F: FLAT 601,</u>	ce K. WAH CE	ENTRE, 191 JA	VA ROAD, NOR	RTH POINT, HONG	KONG
	17	Tel. No. 電 話:	94	332628		Fax No. 圖文傳真:	2572408	0
	Producer ur W P N 5 2 listed below	11 8 - 2 8 6	Disposal (C	hemical W	aste) (Genera is assigned t	I) Regulation, to you in respec	for registration a the Waste Produc ct of the location o 登記為廢物產生者,	er Number, r premises
	予廢物產生者				1 8 2 - 0 3			-
	Location or Premises where the waste is produced 產生廢物 的地點或 處所	Nature of Busi 業務性 Major chemica 主要化學	A 稱:	if any) s: (如有者) NSTRUCT s i 類 : - CELL CON	07818486- ION SPENT LUBR TAINING HEAV	RUCTION CO., L 000-05-18-7 CICATING OIL, S YY METALS, SP	LTD. SPENT MINERAL O ENT MIXING RESID	IL, SURPLUS
3		THE		UNWAY AI	ND SOUTH AP		AGE 4 INFRASTRU ON CITY, KOWLOOM	
	THE PROPERTY OF THE PROPERTY O	DIEGO RESIDENCE DE LA CONTROL	æ	, s		for Dire	CHAN Wai-lun, Wil cotor of Environmen 護署署長(陳偉嗣 18 07	liam) tal Protection

WARNING: Any registered waste producer who fails to inform the Director of Environmental Protection of any change in his registration particulars commits an offence and is liable on conviction to a fine of \$10,000.

警告: 任何已登記的廢物產生者,若其登記資料有任何改變而不知會環境保護署署長,即屬違法,被定罪者最高罰款 港幣10,000元。

港幣 10,000元 EPD 130

(Nov 2012)

本署檔案 OUR REF: (4) in EP631/K19/RE449113-19 來承檔案 YOUR REF 電 話 TEL NO: 2150 8081 圖文傳直

Environmental Protection Department Environmental Compliance Division Regional Office (East)

303 Cheung Sha Wan Road, Kowloon



8/F., Cheung Sha Wan Government Offices,

RECEIVED 5 OCT 2019

Registered Post

FAX NO: 2402 8275

HOMEPAGE: http://www.epd.gov.hk/

细址

03 October 2019

PENTA – OCEAN CONSTRUCTION CO., LTD.

Flat 601, K. Wah Centre, 191 Java Road, North Point, Hong Kong

Dear Sir.

Notice of Issue of Construction Noise Permit pursuant to section 8(6) of the Noise Control Ordinance (Cap. 400)

I write to inform you that, under section 8(6) of the Noise Control Ordinance, the Authority has decided to issue a construction noise permit in respect of your application, which was received by the Authority on 16 September 2019 for the use of powered mechanical equipment for carrying out construction work at Kai Tak Development - Stage 4 infrastructure at the former runway and south apron (Works Area WA1), Kai Tak, Kowloon (CEDD Contract No. ED/2018/01).

The construction noise permit No. GW-RE0786-19 is enclosed.

You are advised to read the conditions of the permit carefully and to ensure compliance with these conditions. Any breaching of the conditions may lead to cancellation of the permit, subsequent prosecution action and the Authority's refusal to issue further permit for the above construction site.

Yours faithfully,

(TANG Wai-man, Lisa) for Authority

Note:

Electronic submission of application for construction noise permit is available at Environmental Protection Department's website. File attachments with total size not exceeding 20 MB in acceptable format are allowed for electronic application form can be downloaded from our (https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain.jsp) and an overview of application submission (https://epic.epd.gov.hk/eForm/introduce.html) is provided for more information.

(4) in EP631/K19/RE449113-19

2150 8081 2402 8275



掛號函件

致: 香港 北角 **渣華道 191 號**

嘉華國際中心 601 室

PENTA - OCEAN CONSTRUCTION CO., LTD.

執事先生:

根據《噪音管制條例(第400章)》第8(6)條 發出的通知書 — 簽發「建築噪音許可證」

本監督於二零一九年九月十六日,收到你擬於下述地址:九龍啟德啟德發展計劃 -前跑道及南面停機坪第四期基礎設施(工作地區 WA1) (土木工程拓展署合約編號 ED/2018/01),使用機動設備進行建築工程而提出的「建築噪音許可證」申請,現根據 《噪音管制條例》第8(6)條的規定通知你,上述的申請已被批准。

隨函附上「第 GW-RE0786-19 號建築噪音許可證」。

請細閱許可證各項條件,確保遵守,如有違反,本監督可撤銷許可證,提出檢控 及拒絕再就上述地盤簽發任何「建築噪音許可證」。

> 督 監

(鄧慧敏



代行)

二零一九年十月三日

環境保護署提供網上申請「建築噪音許可證」服務。網上申請容許上傳檔案總容量不大於 20 MB 的有 關文件。可於本署網頁下載電子表格

(https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain .jsp)及參閱電子表格提交服務概覽(https://epic.epd.gov.hk/eForm/introduce.html),了解更多資料。

FORM 3 NOISE CONTROL ORDINANCE (Chapter 400) SECTION 8(9)

[reg.5(a)]

CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK

		TRUCTION NOISE PERMIT N ENTA – OCEAN CONSTRUCTIO						
oov	vered scribe	mechanical equipment for the purposed construction work, subject to the co	cordance with section 8 of the Noise Control Ordinance. Permission is grante se of carrying out construction work other than percussive piling and/or the anditions set out below. The carrying out of construction work otherwise than g cancelled and in a prosecution for an offence.	carrying out of				
			CONDITIONS					
L.	Fi Ti	ull address: Kai Tak Development ak, Kowloon (CEDD Contract No.	anical equipment and/or prescribed construction work may be employed: — Stage 4 infrastructure at the former runway and south apron (Works / ED/2018/01). Lot No.:	d the prescribed				
,	* D	ART/WHOLE of the site falls * WITH						
·· }.		vered Mechanical Equipment	a designated area.					
	a.	• • •	ent which may be used inside the site boundary:					
		Identification code of item of powered mechanical equipment (if applicable)	Description of item of powered mechanical equipment	No. of units				
			Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A)	Two				
	b.	Validity of the construction noise perm	nit for the use of the powered mechanical equipment:					
		Date and time of commencement :	05 October 2019 at 1900 hours					
		Days and hours: 0000-2400 hours on general holiday (including Sunday), 0000-0700 hours and 1900-2400 hours on any day not						
		being a general holiday.						
		This part of the permit expires on :	04 April 2020 at 2400 hours					
	c.		athority, of each item of powered mechanical equipment described in this construction site and made available for inspection by the Authority.	nstruction noise				
	d.	Other conditions imposed on the use of	of the powered mechanical equipment:					

4.	Danas and Land	Construction	3371-
4.	FIESCHDEU	Construction	WULK

a.	Type of prescribed	construction work	which may	be carried	out inside t	he site boundary:
----	--------------------	-------------------	-----------	------------	--------------	-------------------

Identification code of type of prescribed construction work	Description of type of prescribed construction work
Size :	Not applicable
is .	

V. N. S. and S.			
Validity of the construction noise permit Date and time of commencement:	Not applicable	ed construction work	Not applicable
Days and hours: Not applicable			
This part of the permit expires on:	Not applicable	at	Not applicable
Site layout plan(s), endorsed by the Autlout of prescribed construction work descand made available for inspection by the	cribed in this permit. The layout pl	ermit to indicate the an(s) is(are) required	locations permitted for the earn I to be kept on the construction
Other conditions imposed on the carrying	g out of the prescribed construction	work:	
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* Delete as necessary

for Authority

[第5(a)條]

表格3 噪音管制條例 (第400章) 第8(9)條

建築噪音許可證 為進行建築工程(撞擊式打樁除外) 而使用機動設備及/或進行訂明建築工程

建築	噪音	·許可證編號: GW-RE0786-	19						
致:	PEN'	TA - OCEAN CONSTRUCTION CO.,	LTD.						
撞擊	式打		條例》第8條的規定而發出的。現准予使用機動設 或進行訂明建築工程,但須受以下條件規限。若不 而且會受到檢控。						
			條件						
1.	可包	使用機動設備及/或進行訂明:	建築工程的建築地盤:						
	詳細地址: 九龍啟德啟德發展計劃-前跑道及南面停機坪第四期基礎設施(工作地區WA1) (土木工程拓								
	展署合約編號ED/2018/01)。								
		盤範圍(即可使用機動設備及 則是本建築噪音許可證的一部	進行訂明建築工程的地方範圍)已描劃於夾附的圖則 分。	上,而該					
2.	該均	也盤部分/全部*位於指定範圍	之內/外*。						
3.	機重	助設備							
	a.	在地盤範圍內可使用的各項機	養動設備 :						
		各項機動設備的識辨代碼	各項機動設備的說明	數目					
		(如適用的話)	ログスで変更が良く、用ロジャルグラ	<i>英X 口</i>					
			發電機,備有優質機動設備標籤顯示聲功率級≦93分貝(A)	演					
	b .	可使用機動設備的建築噪音評	F 可證有效期:	1					
		生效日期及時間:	二零一九年十月五日 下午七時						
		-	5星期日)的凌晨零時至晚上十二時,公眾假日以外的	任何一日					
		凌晨零時至上午七時及下午七	二時至晚上十二時。						
		此部分許可證屆滿日期及時間	引:						
	c .	建築地盤須備有本建築噪音計 等照片須經監督認可。	下可證所述每件機動設備的照片各一幀,供監督隨時	查看;該					
	d.	規限使用機動設備的其他條件	‡ :						

4.	訂	明	建	築	工	程

a. 在地盤範圍內可進行的訂明建築工程:

E-5 E-7 E-7 1 A5 11 A3 E1 71 71 71 71 71 71 71 71 71 71 71 71 71	
訂明建築工程的識辨代碼	訂明建築工程的類別的說明
	不適用
可進行訂明建築工程的建築	· 噪音許可證有效期:
生效日期及時間: 不適用	

	1 /42/19		
b .	可進行訂明建築工程的建築噪音許可證	資有效期:	
	生效日期及時間: 不適用		
	日期及時間: 不適用。		
	此部分許可證屆滿日期及時間:	不適用	
	-1. AL -2 AM -2 -1. AU MU AND MU BO AND -2 -1. AL AND MU A	日期	時間
С.	本許可證可夾附經監督認可的地盤圖具 該地盤圖則須存放於建築地盤供監督		准予進行訂明建築工程的地畫
d.	規限進行訂明建築工程的其他條件:		
→ 7:	**************	* [1], this 44 of the second	
4 英	建 築噪音許可證或其副本必須展示於建築	^{製 地 盤 的 所 有 単 輛 人}	、□處,給予公眾人士參閱。
-			
日其	期:20_19 年 10 月 03	E	
			15.7%
		簽署:	
mtri -	去不適用者		<i>監督</i> (鄧慧敏 代行)

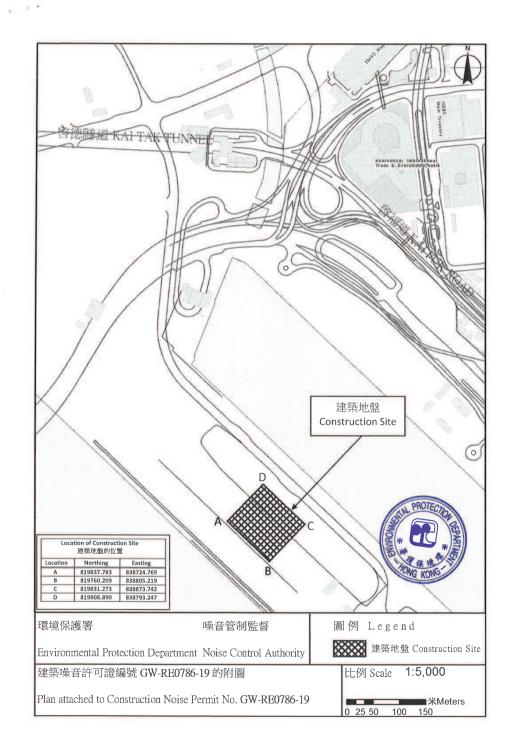
Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0786-19</u> 建築噪音許可證編號: <u>GW-RE0786-19</u> 的照片





Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level \leq 93 dB(A)

發電機,備有優質機動設備標籤顯示聲功率級≤93分貝(A)



本署檔案

OUR REF: (4) in EP631/K19/RE449941-19 來函檔案

YOUR REF 電 話

TEL NO: 2150 8081

圖文傳真

FAX NO: 2402 8275

網址

HOMEPAGE: http://www.epd.gov.hk/

Environmental Protection Department Environmental Compliance Division Regional Office (East) 8/F., Cheung Sha Wan Government Offices,

303 Cheung Sha Wan Road.

Kowloon



000687

Registered Post

30 October 2019

PENTA - OCEAN CONSTRUCTION CO., LTD.

Flat 601, K. Wah Centre,

191 Java Road,

North Point, Hong Kong





Dear Sir.

Notice of Issue of Construction Noise Permit pursuant to section 8(6) of the Noise Control Ordinance (Cap. 400)

I write to inform you that, under section 8(6) of the Noise Control Ordinance, the Authority has decided to issue a construction noise permit in respect of your application, which was received by the Authority on 14 October 2019 for the use of powered mechanical equipment for carrying out construction work at Kai Tak Development - Stage 4 infrastructure at the former runway and south apron (Works Area Part 1), Kaj Tak, Kowloon (CEDD Contract No. ED/2018/01).

The construction noise permit No. GW-RE0880-19 is enclosed.

You are advised to read the conditions of the permit carefully and to ensure compliance with these conditions. Any breaching of the conditions may lead to cancellation of the permit, subsequent prosecution action and the Authority's refusal to issue further permit for the above construction site.

Yours faithfully,

(TANG Wai-man, Lisa)

for Authority

Electronic submission of application for construction noise permit is available at Environmental Protection Department's website. File attachments with total size not exceeding 20 MB in acceptable format are allowed for electronic Electronic application form can be downloaded from our submission. (https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain.jsp) and an overview of application submission (https://epic.epd.gov.hk/eForm/introduce.html) is provided for more information.

(4) in EP631/K19/RE449941-19

2150 8081

掛號承件

香港 北角 **渣華道 191 號**

嘉華國際中心 601 室

PENTA - OCEAN CONSTRUCTION CO., LTD.

執事先生:

根據《噪音管制條例(第400章)》第8(6)條 發出的通知書 - 簽發「建築噪音許可證」

本監督於二零一九年十月十四日,收到你擬於下述地址:九龍啟德啟德發展計劃 -前跑道及南面停機坪第四期基礎設施(工作地區第一部分)(土木工程拓展署合約編號 ED/2018/01),使用機動設備進行建築工程而提出的「建築噪音許可證」申請,現根據 《噪音管制條例》第8(6)條的規定通知你,上述的申請已被批准。

隨函附上「第GW-RE0880-19號建築噪音許可證」。

請細閱許可證各項條件,確保遵守,如有違反,本監督可撤銷許可證,提出檢控 及拒絕再就上述地盤簽發任何「建築噪音許可證」。



二零一九年十月三十日

環境保護署提供網上申請「建築噪音許可證」服務。網上申請容許上傳檔案總容量不大於 20 MB 的有 關文件。可於本署網頁下載電子表格

(https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain .jsp)及參閱電子表格提交服務概覽(https://epic.epd.gov.hk/eForm/introduce.html),了解更多資料。

NOISE CONTROL ORDINANCE

[reg.5(a)]

(Chapter 400) SECTION 8(9)

FORM 3

CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK

CONSTRUCTION NOISE PERMIT NO. GW-RE0880-19 To: PENTA - OCEAN CONSTRUCTION CO., LTD. This construction noise permit is issued in accordance with section 8 of the Noise Control Ordinance. Permission is granted for the use of powered mechanical equipment for the purpose of carrying out construction work other than percussive piling and/or the carrying out of prescribed construction work, subject to the conditions set out below. The carrying out of construction work otherwise than in accordance with the conditions may result in the permit being cancelled and in a prosecution for an offence. CONDITIONS 1. Construction site where the powered mechanical equipment and/or prescribed construction work may be employed a Full address: Kai Tak Development - Stage 4 infrastructure at the former runway and south apron (Works Area Part 1), Kai Tak, Kowloon (CEDD Contract No. ED/2018/01). Lot No.: ---The site boundary, that is, the boundary of the area within which the powered mechanical equipment may be used and the prescribed construction work may be carried out is delineated on the attached plan which forms part of this construction noise permit, 2. * PART/WHOLE of the site falls * WITHIN/OUTSIDE a designated area. 3. Powered Mechanical Equipment Items of powered mechanical equipment which may be used inside the site boundary Description of item of Identification code of item of powered mechanical equipment No. of units powered mechanical equipment (if applicable) Refer to attached sheet. b. Validity of the construction noise permit for the use of the powered mechanical equipment: Date and time of commencement : 30 October 2019 at Days and hours: 0000-2400 hours on general holiday (including Sunday), 0000-0700 hours and 1900-2400 hours on any day not being a general holiday [but note Condition 3.d.1. below for the operating hours within which the use of the above listed powered mechanical equipment is allowed]. 27 April 2020 This part of the permit expires on : 2400 hours One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this construction noise permit is required to be kept on the construction site and made available for inspection by the Authority.

4. Prescribed Construction Work

a Type of presc	ribed construction	work which ma	v be carried out	t inside the site boundary:

Identification code of type of prescribed construction work	Description of type of prescribed construction work			
	Not applicable			

	-						
o.	Validity of the construction noise permit f	or the carrying out of the prescribe	d construction work	:			
	Date and time of commencement:	Not applicable	at	Not applicable			
	Days and hours: Not applicable.				1-1		
	This part of the permit expires on :	Not applicable	at	Not applicable			
Э.	Site-layout plan(s), endorsed by the Author of prescribed construction work described made available for inspection by the Author of the Autho	l in this permit. The layout plan(
d.	Other conditions imposed on the carrying out of the prescribed construction work:						
		is a second seco			/		
Thi	is construction noise permit or a copy th	ereof must be displayed on the	construction site at	all vehicular entrances fo	r public		
	remation				·····		

Da	ted this 30 th day of October	er 20 19					
				$ \varphi $			
		g. 10		£.			
		Signed :	(TA	NG Wai-man, Lisa)			
				for Authority			

* Delete as necessary

Other conditions imposed on the use of the powered mechanical equipment :

Refer to attached sheet.

[第5(a)條]

表格3 噪音管制條例 (第400章) 第8(9)條

建築噪音許可證 為進行建築工程(撞擊式打樁除外) 而使用機動設備及/或進行訂明建築工程

建築噪音許可證編號: GW-RE0880-19

致	: PEN	VTA - OCEAN CONSTRUCTION	CO., LTD.	
擊工	计打棉	最音許可證是按照《噪音管 春工程以外的建築工程及/ 長工程,許可證可遭撤銷,	制條例》第8條的規定而發出的。現准予使用機動設 或進行訂明建築工程,但須受以下條件規限。若不按 而且會受到檢控。	備以進行撞 照該等條件
			條件	
1.	可(使用機動設備及/或進行訂	「明建築工程的建築地盤:	
	註	细地址:力能的德的德發展:	計劃-前跑道及南面停機坪第四期基礎設施(工作地區第一部)	(+* T
		拓展署合約編號ED/2018/01)		カナ(エ <u>ルエ</u>
	***********		·及進行訂明建築工程的地方範圍)已描劃於夾附的圖	訓 L,而 該
		型 單 圉 (邙 勺 反 / 1 被 勤 政 // 則是本建築噪音許可證的 -		机工 / 川政
2	該出	也盤 部分 /全部*位於指定〔	範圍之內/外*。	
3 .	144 =	64. ≥/1. /±±		
10	p	動設備		
	a .	在地盤範圍內可使用的各	埧機動設備:	
		各項機動設備的識辨代碼 (如適用的話)	各項機動設備的說明	數目
			参見附頁。	
	b .	可使用機動設備的建築噪	音許可證有效期:	
		生效日期及時間:	二零一九年十月三十日 下午七時	
		日期及時間: 公眾假日(包括星期日)的凌晨零時至晚上十二時,公眾假日以外	的任何一日
		凌晨零時至上午七時及下 動設備的時間】。	午七時至晚上十二時【但須注意條件3.d.1.有關可以	使用上列機
		此部分許可證屆滿日期及	時間: 二零二零年四月二十七日 晚上十二時	
		此即刀可可亞個州口州又	時間: 二零二零年四月二十七日 晚上十二時 日期 時間	
	С.	建築地盤須備有本建築噪 等照片須經監督認可。	音許可證所述每件機動設備的照片各一幀,供監督隨時	序查看; 該
	d.	規限使用機動設備的其他	條件:	
		參見附頁。		

4. 訂明建築工程

2	在地	舟分	Ƴ	育	内	可	谁	行	竹	計	昍	建	筮	Т	程	

訂明建築工程的識辨代碼	訂明建築工程的類別的說明
	不適用
-	

	日期及時間:不適用。
	此部分許可證屆滿日期及時間: <u>不適用</u> 日期 時間
С.	本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的地態該地盤圖則須存放於建築地盤供監督隨時查看。
d.	規限進行訂明建築工程的其他條件:
本質	書築噪音許可證或其副本必須展示於建築地盤的所有車輛人口處,給予公眾人士參閱。

* 删去不適用者

- 2 -

Sheet Attached to Construction Noise Permit No. GW-RE0880-19

3.a. Items of powered mechanical equipment which may be used inside the site boundary:

of powered	n code of item l mechanical (if applicable)	Description of item of powered mechanical equipment	No. of units
Group A	-	Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A)	One
		Piling, vibrating hammer	One
	CNP 048	Crane, mobile (diesel)	One
		Welding machine (electric)	One
	222	Air blower (electric)	One
		Power pack (diesel)	One
	CNP 283	Water pump, submersible (electric)	Eight
		Wastewater treatment plant	One
Group B		Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A)	One
	CNP 081	Excavator, tracked	One
	CNP 283	Water pump, submersible (electric)	Eight
	***	Wastewater treatment plant	One
	202	Dump truck with grab, 5.5 tonne <gross td="" tonne<="" vehicle="" weight≤38=""><td>One</td></gross>	One
	1000	Welding machine (electric)	One
	CNP 048	Crane, mobile (diesel)	One
Group C	o 	Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A)	Three
	CNP 283	Water pump, submersible (electric)	Twelve
		Wastewater treatment plant	Two
L			

Signed: (TANG Wai-man, Lisa) for Authority

建築噪音許可證 編號 GW-RE0880-19 的附頁

3.a. 在地盤範圍內可使用的各項機動設備:

	子備的識辨代碼 可用的話)	各項機動設備的說明	數目
<u>A 組</u>	CNP 048 CNP 283	發電機,備有優質機動設備標籤顯示聲功率級≤93分貝(A) 打樁機,震動鎚 起重機,流動 (油渣) 焊接機 (電動) 吹風機 (電動) 油渣動力供應器 潛水泵 (電動) 污水處理器	壹 壹 壹 壹 捌 壹
<u>B 組</u>	CNP 081 CNP 283	發電機,備有優質機動設備標籤顯示聲功率級≤93分貝(A) 挖土機,履帶式 潛水泵(電動) 污水處理器 抓斗卸土車,5.5 噸<總重量≤38 噸 焊接機(電動) 起重機,流動(油渣)	壹壹捌壹壹壹
C組	CNP 283	發電機,備有優質機動設備標籤顯示聲功率級≦93分貝(A) 潛水泵 (電動) 污水處理器	叁 拾貳 貳

答罢:



監督 (鄧慧敏 代行)

Sheet Attached to Construction Noise Permit No. GW-RE0880-19

3.d. Other conditions imposed on the use of the powered mechanical equipment:

1. The powered mechanical equipment listed in condition 3.a shall only be operated during the hours shown below:

Group A and	General holiday including Sunday	0700 – 1900 hours
Group B	Any day not being a general holiday	1900 – 2300 hours
Group C	General holiday including Sunday	0000 – 2400 hours
Group C	Any day not being a general holiday	0000 – 0700 hours AND 1900 – 2400 hours

2. Only one group of the powered mechanical equipment listed in condition 3.a shall be allowed to operate at any time.

Signed:

(TANG Wai-man, Lisa) for Authority

建築噪音許可證 編號 GW-RE0880-19 的附頁

3. d. 規限使用機動設備的其他條件:

1. 祇可於以下時間內使用列在條件 3. a 內的機動設備:

A 6H T. D 6H	公眾假日包括星期日	上午七時 至下午七時
A組及B組	公眾假日以外的任何一日	下午七時 至 晚上十一時
C組	公眾假日包括星期日	凌晨零時至晚上十二時
<u>で細</u>	公眾假日以外的任何一日	凌晨零時至上午七時 及 下午七時至晚上十二時

2. 在任何時間內,祇可使用列在條件 3. a. 內其中一組機動設備。

簽署



(鄧慧敏 代行)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0880-19</u> 建築噪音許可證編號:<u>GW-RE0880-19</u> 的照片



Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A) 發電機,備有優質機動設備標籤顯示聲功率級≤93 分貝(A)



CNP 283 Water pump, submersible (electric) 潛水泵 (電動)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0880-19</u> 建築噪音許可證編號:<u>GW-RE0880-19</u> 的照片



Wastewater treatment plant 污水處理器





Air blower (electric) 吹風機 (電動)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0880-19</u> 建築噪音許可證編號:<u>GW-RE0880-19</u> 的照片



Dump truck with grab, 5.5 tonne<gross vehicle weight ≤ 38 tonne 抓斗卸土車, 5.5 噸< 總重量 ≤ 38 噸



CNP 081 Excavator, tracked 挖土機,履帶式

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0880-19</u> 建築噪音許可證編號:<u>GW-RE0880-19</u> 的照片





Power pack (diesel) 油渣動力供應器



Piling, vibrating hammer 打樁機,震動鎚

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0880-19</u> 建築噪音許可證編號:<u>GW-RE0880-19</u> 的照片





CNP 048 Crane, mobile (diesel) (1) 起重機,流動 (油渣) (1)



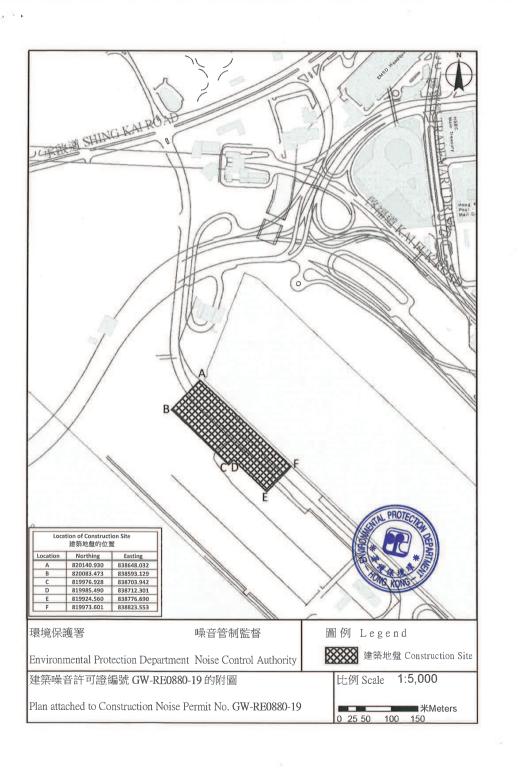


CNP 048 Crane, mobile (diesel) (2) 起重機,流動(油渣)(2)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0880-19</u> 建築噪音許可證編號:<u>GW-RE0880-19</u> 的照片



Welding machine (electric) 焊接機 (電動)



本署檔案

OUR REF: (4) in EP631/K19/RE453370-20

來函檔案 YOUR REF:

電 話 TEL NO: 2150 8081

圖文傳真

FAX NO: 2402 8275 網 址

網 址 HOMEPAGE: http://www.epd.gov.hk/ Environmental Protection Department
Environmental Compliance Division
Regional Office (East)

8/F., Cheung Sha Wan Government Offices,
RECEIVED 303 Cheung Sha Wan Road,



001380

Registered Post

06 March 2020

To:

PENTA - OCEAN CONSTRUCTION CO., LTD.

- 9 MAR 2020

PENTA-OCEAN KTD (902)

Flat 601, K. Wah Centre,

191 Java Road,

North Point, Hong Kong

Dear Sir,

Notice of Issue of Construction Noise Permit pursuant to section 8(6) of the Noise Control Ordinance (Cap. 400)

I write to inform you that, under section 8(6) of the Noise Control Ordinance, the Authority has decided to issue a construction noise permit in respect of your application, which was received by the Authority on 17 February 2020 for the use of powered mechanical equipment for carrying out construction work at Kai Tak Development – Stage 4 infrastructure at the former runway and south apron, Kai Tak, Kowloon (CEDD Contract No. ED/2018/01).

The construction noise permit No. GW-RE0132-20 is enclosed.

You are advised to read the conditions of the permit carefully and to ensure compliance with these conditions. Any breaching of the conditions may lead to cancellation of the permit, **subsequent prosecution action** and the Authority's refusal to issue further permit for the above construction site.

Yours faithfully,

TANG Wai-man Li

(TANG Wai-man, Lisa) for Authority

Note:

Electronic submission of application for construction noise permit is available at Environmental Protection Department's website. File attachments with total size not exceeding 20 MB in acceptable format are allowed for electronic submission. Electronic application form can be downloaded from our website (https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain.jsp) and an overview of application submission (https://epic.epd.gov.hk/eForm/introduce.html) is provided for more information.

(4) in EP631/K19/RE453370-20

2150 8081 2402 8275

掛號函件

致: 香港 北角

渣華道 191 號

嘉華國際中心 601 室

PENTA - OCEAN CONSTRUCTION CO., LTD.

執事先生:

根據《噪音管制條例(第400章)》第8(6)條發出的通知書 — 簽發「建築噪音許可證」

本監督於二零二零年二月十七日,收到你擬於下述地址:九龍啟德啟德發展計劃 -<u>前跑道及南面停機坪第四期基礎設施(土木工程拓展署合約編號 ED/2018/01)</u>,使用機 動設備進行建築工程而提出的「建築噪音許可證」申請,現根據《噪音管制條例》第 8(6)條的規定通知你,上述的申請已被批准。

隨函附上「第GW-RE0132-20號建築噪音許可證」。

請細閱許可證各項條件,確保遵守,如有違反,本監督可撤銷許可證,提出檢控及拒絕再就上述地盤簽發任何「建築噪音許可證」。

監督

(鄧慧敏



代行)

二零二零年三月六日

注意:

環境保護署提供網上申請「建築噪音許可證」服務。網上申請容許上傳檔案總容量不大於 20 MB 的有關文件。可於本署網頁下載電子表格

(https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain .jsp)及參閱電子表格提交服務概覽(https://epic.epd.gov.hk/eForm/introduce.html),了解更多資料。

[reg.5(a)]

FORM 3 NOISE CONTROL ORDINANCE (Chapter 400)

SECTION 8(9)

CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK

	TRUCTION NOISE PERMIT N ENTA – OCEAN CONSTRUCTIO				
powered prescribe	astruction noise permit is issued in acc mechanical equipment for the purposed construction work, subject to the co conditions may result in the permit bein	e of carrying out construc nditions set out below. The	tion work other than p ne carrying out of cons	ercussive piling and/o	r the carrying out of
		CONDITIO	ONS		
Fi (C The	astruction site where the powered mechaull address: Kai Tak Development DEDD Contract No. ED/2018/01). The site boundary, that is, the boundary of struction work may be carried out is desired.	t - Stage 4 infrastructur	e at the former runw	ay and south apron, Lot No.:equipment may be use	and the prescribed
2. * P.	ART/WHOLE of the site falls * WITHI	N/OUTSIDE a designated a	nrea.		
3. Pov	vered Mechanical Equipment				
a.	Items of powered mechanical equipme	ent which may be used insid	le the site boundary:		
	Identification code of item of powered mechanical equipment (if applicable)	por	Description of item o wered mechanical equip		No. of units
		Refer to attached shee	t.		
ъ.	Validity of the construction noise perm	nit for the use of the powers	ed mechanical equipme	nt:	
	Date and time of commencement :	13 March 20	20 at	1900 hours	
	Days and hours: 0000-2400 hours	on general holiday (includ	ing Sunday), 0000-070	hours and 1900-2400	hours on any day not
	being a general holiday [but note co	ndition 3.d.1. below for the	e operating hours within	n which the use of the	above listed powered
	mechanical equipment is allowed].	10.5		22221	
	This part of the permit expires on:	12 Septemb			
с.	One photograph, endorsed by the Au permit is required to be kept on the co				nis construction noise
d.	Other conditions imposed on the use of	of the powered mechanical	equipment ;		
	1. The powered mechanical equipm	nent listed in condition 3.a.s	shall only be operated d	uring the hours shown	below:
	General holiday (including S	unday)	0700 – 2300 hours		
	Any day not being a general l	holiday	1900 – 2300 hours		
	Only one group of the powered in the powered i	nechanical equipment listed	l in condition 3.a. shall	be allowed to operate a	at any time.

- 1 -

4. Prescribed Construction Work

a.	Type of prescribed	construction work	which may	be carried or	it inside the site boundary :	
----	--------------------	-------------------	-----------	---------------	-------------------------------	--

Identification code of type of prescribed construction work	Description of type of prescribed construction work
	Not applicable

	Date and time of cor	mmencement:	Not applicable	at	Not applicable
	Days and hours:				
	This part of the perm		Not applicable		Not applicable
;.	out-of-prescribed-co		rity, may be attached with the period in this permit. The layout plar athority.		
l.	Other conditions imp	posed on the carrying o	ut of the prescribed construction w	ork:	
	Acceptance of the Property of the Control of the Co				· · · · · · · · · · · · · · · · · · ·
			international service described to the contract of the contrac		
					97-45-1-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-
	is construction noise formation.	permit or a copy the	reof must be displayed on the co		all vehicular entrances for pu
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		permit or a copy the	reof must be displayed on the co		all vehicular entrances for pu
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inf	formation.	permit or a copy the	reof must be displayed on the co		all vehicular entrances for pu
ini		permit or a copy the	reof must be displayed on the co		all vehicular entrances for pu
ini	formation.	permit or a copy the	reof must be displayed on the co		all vehicular entrances for pu

* Delete as necessary

[第5(a)條]

噪音管制條例 (第400章) 第8(9)條

建築噪音許可證

為進行建築工程(撞擊式打樁除外)

		田 伊 用 機 町	設	蚁		
建築	噪音	許可證編號: GW-RE0132-2	20			
致:	PENT	TA - OCEAN CONSTRUCTION CO.,	LTD.			
撞擊	式打	音許可證是按照《噪音管制 格工程以外的建築工程及/ 建築工程,許可證可遭撤銷,	或進行訂明	條的規定而發出的。現准予使 建築工程,但須受以下條件規 JI 檢控。	用機動設係 限。若不打	请以進行 按照該等
			條	<i>#</i>		
1.	可信	吏用機動設備及/或進行訂明 發	建築工程的	建築地盤:		
	詳絲	田地址: 九龍啟德啟德發展計劃	-前跑道及南	百面停機坪第四期基礎設施 (土木	マスロ マスロップ マスティス マスティス マスティス アイス アイス アイス アイス アイス アイス アイス アイス アイス アイ	肾 合約編號
	ED	/2018/01) 。	V-14-2000 BJ 18-21 1 800 200 2 1 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2	地段編號:	THE LABORATORY THE POST AND AND A PARK AND A	delit dilibera sanda sanda sa da sabadia assassas
		盤範圍(即可使用機動設備及達 則是本建築噪音許可證的一部		築工程的地方範圍)已描劃於為	灰附的圖則	上,而該
2,	該均	也盤部分/全部*位於指定範圍	之內/外*	ō		
3.	機重	か設 備				
	(欧则 to): a. 在地盤節圍內可使用的各項機動設備:					
		各項機動設備的識辨代碼		各項機動設備的說明		數目
		(如適用的話)		11 - MANAGIK (MH JUL 73		#X L1
			參見附頁。			
	Ъ.	可使用機動設備的建築噪音 生效日期及時間:		月: 二零二零年三月十三日 下午七日	生	
		PRINCE PROPERTY OF THE PROPERT		<u>一零一零十二万十二日</u> 凌晨零時至晚上十二時,公眾		任何一日
		***************************************		十二時【但須注意條件3.d.1.		
	動設備的時間】。					
		此部分許可證屆滿日期及時間	!			economica de la compania de la comp
	С,	建築地盤須備有本建築噪音計 等照片須經監督認可。	中可證所述4	日期 時間 每件機動設備的照片各一幀,你		查看;該
	d.	規限使用機動設備的其他條件	: :			
		1. 祇可於以下時間內使用列右	王條件3. a 內	的機動設備:		
		公眾假目(包括星期日)		上午七時至晚上十一時		
		公眾假日以外的任何一日		下午七時至晚上十一時		

2. 在任何時間內,祇可使用列在條件3.a.內的其中一組機動設備。

- 1 -

4.	訂	明	建	築	I	程

a.	在地	盤	範	量内	可強	行的	訂明	建	築工	程	2
----	----	---	---	----	----	----	----	---	----	---	---

住地盛即国內可進行的訂明建	· 栄工任 ·
訂明建築工程的識辨代碼	訂明建築工程的類別的說明
	不適用
可進行訂明建築工程的建築噪	·····································
生效日期及時間: 不適用	
日期及時間: 不適用。	
此部分許可證屆滿日期及時間	引: 不適用
	日期時間
	7. 地盤圖則,以顯示本許可證准予進行訂明建築工程的地點
該地盤圖則須存放於建築地盤	
規限進行訂明建築工程的其他	1條件:
* MY -0 -7 -16 -7 -17 -16 -11 -1 -1 -1 -1 -1 -1 -1	
建築噪音許可證或其副本必須展	長示於建築地盤的所有車輛人口處,給予公眾人士參閱。
49 14 14 14 14 14 14 14 14 14 14 14 14 14	

and the second of the second of	
期:2020 年 03 月	∃ 06 日
	慧 智
	政少"
	簽署:
7	監督

* 删去不適用者

5.

(鄧慧敏 代行)

Sheet Attached to Construction Noise Permit No. GW-RE0132-20

3.a. Items of powered mechanical equipment which may be used inside the site boundary:

of powered	n code of item l mechanical if applicable)	Description of item of powered mechanical equipment	No. of units
Group A	CNP 101	Generator, standard Lorry with grab, 5.5 tonne <gross th="" vehicle="" weight≤38<=""><th>One One</th></gross>	One One
		tonne Lorry with crane, 5.5 tonne <gross 38="" td="" tonne<="" vehicle="" weight="" ≤=""><td>One</td></gross>	One
		Wastewater treatment plant	One
-	CNP 281	Water pump (electric)	One
	CNP 283	Water pump, submersible (electric)	One
Group B	CNP 101	Generator, standard	One
	-	Dump truck, 5.5 tonne <gross td="" tonne<="" vehicle="" weight="" ≤38=""><td>One</td></gross>	One
		Wastewater treatment plant	One
	CNP 281	Water pump (electric)	One
	CNP 283	Water pump, submersible (electric)	One
	CNP 081	Excavator, tracked	One

Signed :_

(TANG Wai-man, Lisa) for Authority

建築噪音許可證 編號 GW-RE0132-20 的附頁

3.a. 在地盤範圍內可使用的各項機動設備:

壹 壹 壹 壹 壹 壹 壹
量 ≤38 噸 壹 壹
壹
The state of the s
And the second s
壹
壹
壹
≦38 噸 壹
壹
壹
壹



(鄧慧敏 代行)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0132-20</u> 建築噪音許可證編號: <u>GW-RE0132-20</u> 的照片



CNP 101 Generator, standard 發電機,標準型





Lorry with grab, 5.5 tonne<gross vehicle weight≦38 tonne 抓斗貨車,5.5 噸<總重量≦38 噸

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0132-20</u> 建築噪音許可證編號:<u>GW-RE0132-20</u> 的照片



Wastewater treatment plant 污水處理器





CNP 281 Water pump (electric) 水泵 (電動)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0132-20</u> 建築噪音許可證編號:<u>GW-RE0132-20</u> 的照片



CNP 283 Water pump, submersible (electric) 潛水泵 (電動)



Lorry with crane, 5.5 tonne<gross vehicle weight≤38 tonne 吊臂貨車,5.5 噸<總重量≤38 噸

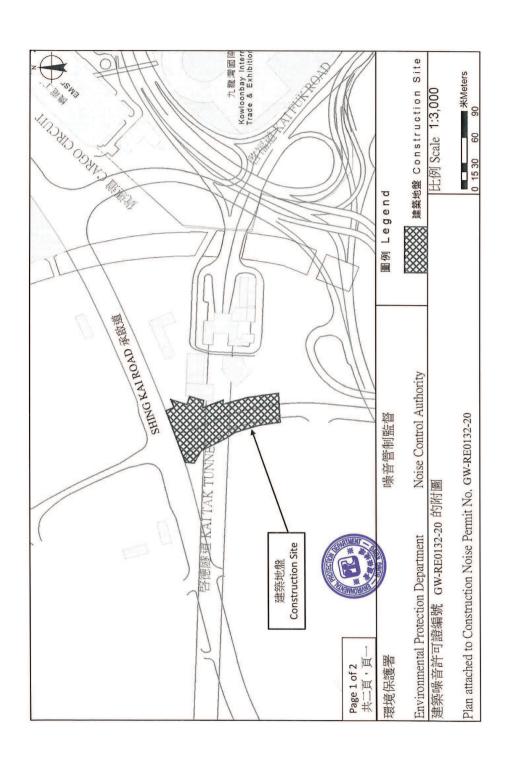
Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0132-20</u> 建築噪音許可證編號: <u>GW-RE0132-20</u> 的照片

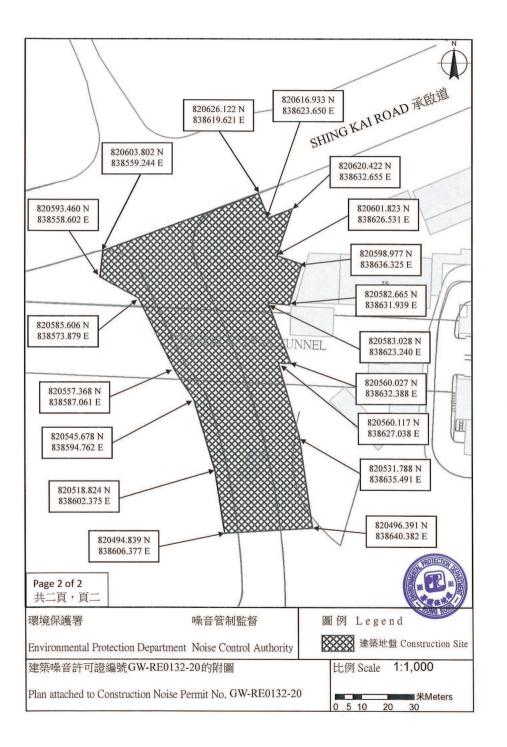


Dump truck, 5.5 tonne<gross vehicle weight≦38 tonne 卸土車,5.5 噸<總重量≦38 噸



CNP 081 Excavator, tracked 挖土機,履帶式





Environmental Protection Department 環境保護署 本署檔案 **Environmental Compliance Division** OUR REF: (4) in EP631/K19/RE453503-20 環保法規管理科 Regional Office (East) 來邱檔案 區域辦事處(東) YOUR REF 8/F., Cheung Sha Wan Government Offices. 九龍長沙灣道 303 號 電 話 303 Cheung Sha Wan Road, RECEIVED 長沙灣政府合署8樓 TEL NO: 2150 8081 Kowloor 圖文傳真 - 9 MAR 2020 FAX NO: 2402 8275 001379 網址 PENTA-OCEAN HOMEPAGE: http://www.epd.gov.hk/

Registered Post

9 March 2020

To: PENTA - OCEAN CONSTRUCTION CO., LTD.

Flat 601, K. Wah Centre, 191 Java Road.

North Point, Hong Kong

Dear Sir,

Notice of Issue of Construction Noise Permit pursuant to section 8(6) of the Noise Control Ordinance (Cap. 400)

I write to inform you that, under section 8(6) of the Noise Control Ordinance, the Authority has decided to issue a construction noise permit in respect of your application, which was received by the Authority on 20 February 2020 for the use of powered mechanical equipment for carrying out construction work at Kai Tak Development - Stage 4 infrastructure at the former runway and south apron (Works Area Part 1), Kai Tak, Kowloon (CEDD Contract No. ED/2018/01).

The construction noise permit No. GW-RE0150-20 is enclosed.

You are advised to read the conditions of the permit carefully and to ensure compliance with these conditions. Any breaching of the conditions may lead to cancellation of the permit, **subsequent prosecution action** and the Authority's refusal to issue further permit for the above construction site.

Yours faithfully,

(TANG Wai-man, Lisa) for Authority

Note:

Electronic submission of application for construction noise permit is available at Environmental Protection Department's website. File attachments with total size not exceeding 20 MB in acceptable format are allowed for electronic submission. Electronic application form can be downloaded from our website

(https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain.jsp) and an overview of application submission (https://epic.epd.gov.hk/eForm/introduce.html) is provided for more information.

(4) in EP631/K19/RE453503-20

2150 8081 2402 8275

掛號函件

致: 香港 北角

渣華道 191 號

嘉華國際中心 601 室

PENTA - OCEAN CONSTRUCTION CO., LTD.

執事先生:

根據《噪音管制條例(第400章)》第8(6)條 發出的通知書 — 簽發「建築噪音許可證」

本監督於二零二零年二月二十日,收到你擬於下述地址:九龍啟德啟德發展計劃-前跑道及南面停機坪第四期基礎設施(工作地區第一部分)(土木工程拓展署合約編號ED/2018/01),使用機動設備進行建築工程而提出的「建築噪音許可證」申請,現根據《噪音管制條例》第8(6)條的規定通知你,上述的申請已被批准。

隨承附上「第GW-RE0150-20號建築噪音許可證」。

請細閱許可證各項條件,確保遵守,如有違反,本監督可撤銷許可證,提出檢控及拒絕再就上述地盤簽發任何「建築噪音許可證」。

監督

(鄧慧敏



代行)

二零二零年三月九日

注意:

環境保護署提供網上申請「建築噪音許可證」服務。網上申請容許上傳檔案總容量不大於 20 MB 的有關文件。可於本署網頁下載電子表格

(<a href="https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain_isp)及參閱電子表格提交服務概覽(https://epic.epd.gov.hk/eForm/introduce.html),了解更多資料。

FORM 3 NOISE CONTROL ORDINANCE

[reg.5(a)]

(Chapter 400) SECTION 8(9)

CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK

NST	RUCTION NOISE PERMIT	NO. <u>GW-RE0150-20</u>					
:F	ENTA-OCEAN CONSTRUC	CTION CO., LTD.	***************************************				
ered cribe	mechanical equipment for the pur d construction work, subject to the	pose of carrying out construction work other than percussive piling and/or conditions set out below. The carrying out of construction work otherwise that	the carrying out of				
		CONDITIONS					
Com	otovotion site and and the second asset						
			Wei Tele Weeder				
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
cons	truction work may be carried out is	delineated on the attached plan which forms part of this construction noise per	nit.				
*_P,	RT/WHOLE of the site falls * WIT	HIN/OUTSIDE a designated area.					
Pow	ered Mechanical Equipment						
a.	Items of powered mechanical equipment which may be used inside the site boundary:						
	Identification code of item of powered mechanical equipment (if applicable)	Description of item of powered mechanical equipment	No. of units				
		Refer to attached sheet.					
h	Validity of the construction noise p	ermit for the use of the nowered mechanical equipment					
0.	• • • • • • • • • • • • • • • • • • • •						
c.	One photograph, endorsed by the	Authority, of each item of powered mechanical equipment described in thi					
d.	Other conditions imposed on the us	e of the powered mechanical equipment:					
	1. The powered mechanical equ	ipment listed in condition 3.a. shall only be operated during the hours s	hown below:				
	General holiday (including	Sunday) 0000 2300 hours					
	2. Only one group of the power	ed mechanical equipment listed in condition 3.a shall be allowed to one	rate at any time.				
	: F s conservered scribe condi Con: Full (CE) The cons *-PA Pow a.	: PENTA-OCEAN CONSTRUCT s construction noise permit is issued in a vered mechanical equipment for the purscribed construction work, subject to the conditions may result in the permit being Construction site where the powered mere full address: Kai Tak Development - St (CEDD Contract No. ED/2018/01). The site boundary, that is, the boundar construction work may be carried out is *PART/WHOLE of the site falls *WITP Dowered Mechanical Equipment a. Items of powered mechanical equipment (if applicable) b. Validity of the construction noise p Date and time of commencement: Days and hours: 0000-2400 hour day not being a general holiday listed powered mechanical equipment company is required to be kept on the d. Other conditions imposed on the us 1. The powered mechanical equipment is required to be kept on the d. General holiday (including Any day not being a general mechanical equipment is required to be kept on the d.	Construction site where the powered mechanical equipment and/or prescribed construction work may be employed: Full address: _Kai Tak Development _ Stage 4 infrastructure at the former runway and south apron (Works Area Part I (CEDD Contract No. ED/2018/01)				

4	Prescribed	Construction	Work

 Type of prescribed construction work which may be carried out insi
--

Identification code of type of prescribed construction work	Description of type of prescribed construction work
	Not applicable

b.	Validity of the construction noise permit	for the carrying out of the prescri	bed construction work	:	
	Date and time of commencement :	Not applicable	at	Not applicat	ole
	Date and hours: Not applicable.				
	This part of the permit expires on :	Not applicable			
c.	Site layout plan(s), endorsed by the Author- of-prescribed construction work describe made available for inspection by the Auth	ed in this permit. The layout pla			
d.	Other conditions imposed on the carrying	g out of the prescribed construction	on work:		
Thi	is construction noise permit or a copy there	of must be displayed on the const	ruction site at <u>all vehic</u>	ular entrances for publi	c information
Da	ated this 9th day of March	2020			
				P.	
		Signed :			
				Wai-man, Lisa) Authority	
			jor	липогиу	

* Delete as necessary

表格3 [第5(a)條]

噪音管制條例 (第400章)

第8(9)條

建築噪音許可證

為進行建築工程(撞擊式打樁除外)

		而 使)	11機動設備及/或進行訂明建築工程	
建	築 噪 音	f許可證編號:	GW-RE0150-20	
			TRUCTION CO., LTD.	
擊;	式打權		管制條例》第8條的規定而發出的。現准予使用機動 /或進行訂明建築工程,但須受以下條件規限。若不 ,而且會受到檢控。	
			條件	
1.	可(使用機動設備及/或進行	訂明建築工程的建築地盤:	
	詳細	細地址:九龍啟德啟德系	展計劃-前跑道及南面停機坪第四期基礎設施(工作:	也區第一部分)
			BD/2018/01)。 地段編號:	
	地		带及進行訂明建築工程的地方範圍)已描劃於夾附的圖	
2.	該均	地盤部分/全部*位於指別	E範圍之內·/外*。	
3.	機重	動設備		
	a .	在地盤範圍內可使用的	各項機動設備:	
		各項機動設備的識辨代碼 (如適用的話)	各項機動設備的說明	數目
			参見附頁。	
	b .	可使用機動設備的建築	·····································	
		生效日期及時間: 二零	二零年三月二十四日下午七時	
		日期及時間: 公眾假	日(包括星期日)的凌晨零時至晚上十二時,公眾假日	以外的任何一
		日凌晨零時至上午七時	及下午七時至晚上十二時【但須注意條件3.d.1.有關	可以使用上列
		機動設備的時間】。		
		此部分許可證屆滿日期	及時間: 二零二零年八月二十三日晚上十一	時
	с.	建築地盤須備有本建築 等照片須經監督認可。	日期 時間 噪音許可證所述每件機動設備的照片各一幀,供監督	肾 隨時查看;該
	d.	規限使用機動設備的其	也條件:	
		1. 祇可於以下時間內使用死	川在條件3. a 內的機動設備:	
		公眾假日包括星期日	上午九時 至 晚上十一時	

- 4. 訂明建築工程
 - a. 在地盤範圍內可維行的訂明確筑工程。

訂明建築工程的識辨代碼	訂明建築工程的類別的說明
	不適用

	生效日期及時間:不適用
	日期及時間: 不適用。
	此部分許可證屆滿日期及時間: 不適用
i.	日期 時間本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的 地盤圖則須存放於建築地盤供監督隨時查看。
•	規限進行訂明建築工程的其他條件:
本 廷	建築噪音許可證或其副本必須展示於建築地盤的所有車輛人口處,給予公眾人士參閱
本 3	建築噪音許可證或其副本必須展示於建築地盤的所有車輛人口處,給予公眾人士參

* 删去不適用者

公眾假日以外的任何一日 下午七時 至 晚上十一時

2. 在任何時間內, 祇可使用列在條件3. a. 內其中一組機動設備。

Sheet Attached to Construction Noise Permit No. GW-RE0150-20

3.a. Items of powered mechanical equipment which may be used inside the site boundary:

of powered	n code of item d mechanical (if applicable)	Description of item of powered mechanical equipment	No. of units
Group A		Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤95 dB(A)	One
	CNP 166	Piling, large diameter bored, reverse circulation drill	Two
	seasone	Air compressor, with Noise Emission Label showing a Sound Power Level of $\leq 104 dB(A)$	Two
	MMM	Power pack (diesel)	One
		Wastewater treatment plant	One
	CNP 283	Water pump, submersible (electric)	Four
	CNP 165	Piling, large diameter bored, oscillator	One
Group B		Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level \leq 95 dB(A)	One
	CNP 164	Piling, large diameter bored, grab and chisel	One
	CNP 048	Crane, mobile (diesel)	One
Group C	 CNP 048	Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤95 dB(A) Welding machine (electric) Crane, mobile (diesel)	One Five One
Group D		Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level \leq 95 dB(A)	One
	non	Air compressor, with Noise Emission Label showing a Sound Power Level of $\leq 104 dB(A)$	One
	CNP 048	Crane, mobile (diesel)	One
		Wastewater treatment plant	One
	CNP 283	Water pump, submersible (electric)	Four

Signed: (TANG Wai-man, Lisa) for Authority

建築噪音許可證 編號 GW-RE0150-20 的附頁

3.a. 在地盤範圍內可使用的各項機動設備:

TT 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	设備的識辨代碼 適用的話)	各項機動設備的說明	數目
<u>A 組</u>		發電機,備有優質機動設備標籤顯示聲功率級≤95分貝 (A)	壹
	CNP 166	大直徑鑽孔樁,循環式鑽機	貢
		空氣壓縮機,備有噪音標籤顯示聲功率級≤104分貝(A)	貳
		油渣動力供應器	壹
		污水處理器	壹
	CNP 283	潛水泵 (電動)	肆
	CNP 165	大直徑鑽孔樁,擺動機	壹
<u>B 組</u>		發電機,備有優質機動設備標籤顯示聲功率級≤95分貝 (A)	壹
	CNP 164	大直徑鑽孔樁,抓斗及鑿	壹
	CNP 048	起車機,流動(油渣)	壹
	CITI 040		22
<u>C組</u>	-	發電機,備有優質機動設備標籤顯示聲功率級≤95分貝 (A)	壹
		焊接機 (電動)	伍
	CNP 048	起重機,流動(油渣)	壹
D組	;===:	發電機,備有優質機動設備標籤顯示聲功率級≤95分貝 (A)	壹
	: -	空氣壓縮機,備有噪音標籤顯示聲功率級≦104分貝(A)	壹
2	CNP 048	起重機,流動(油渣)	壹
	222	污水處理器	壹
	CNP 283	潛水泵 (電動)	肆
	Antos sacrates say Fill o		5753

簽署:



監督 (鄧慧敏 代行)

Sheet Attached to Construction Noise Permit No. GW-RE0150-20

3.a. Items of powered mechanical equipment which may be used inside the site boundary:

of powered	n code of item I mechanical (if applicable)	Description of item of powered mechanical equipment	No. of units
Group E		Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤95 dB(A)	One
ŀ	CNP 048	Crane, mobile (diesel)	One
	CNP 044	Concrete lorry mixer	Two
		Wastewater treatment plant	One
	CNP 283	Water pump, submersible (electric)	Two
Group F	par to participation of the contract of the co	Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤95 dB(A)	One
		Welding machine (electric)	One
1	CNP 166	Piling, large diameter bored, reverse circulation drill	Two
	and beautiful.	Air compressor, with Noise Emission Label showing a Sound Power Level of $\leq 104 dB(A)$	One
	·	Wastewater treatment plant	One
	ннн	Power pack (diesel)	One
Group G		Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤95 dB(A)	One
	CNP 048	Crane, mobile (diesel)	One
	CNP 164	Piling, large diameter bored, grab and chisel Air compressor, with Noise Emission Label showing a Sound Power Level of ≤104dB(A)	One
	CNP 166	Piling, large diameter bored, reverse circulation drill	Two
	****	Power pack (diesel)	One
	CNP 283	Water pump, submersible (electric)	Two
		Wastewater treatment plant	One

Signed : (TANG Wai-man, Lisa) for Authority

建築噪音許可證 編號 GW-RE0150-20 的附頁

3.a. 在地盤範圍內可使用的各項機動設備:

	设備的識辨代碼 適用的話)	各項機動設備的說明	數目
E組	·	發電機,備有優質機動設備標籤顯示聲功率級≤95分貝 (A)	壹
	CNP 048	起重機,流動(油渣)	壹
	CNP 044	混凝土攪拌車	貳
		污水處理器	壹
	CNP 283	潛水泵 (電動)	貳
<u>F組</u>		發電機,備有優質機動設備標籤顯示聲功率級≤95分貝 (A)	壹
		焊接機 (電動)	壹
	CNP 166	大直徑鑽孔樁,循環式鑽機	貳
		空氣壓縮機,備有噪音標籤顯示聲功率級≤104分貝(A)	壹
	10000	污水處理器	壹
		油渣動力供應器	壹
<u>G組</u>	-	發電機,備有優質機動設備標籤顯示聲功率級≤95分貝 (A)	壹
	CNP 048	起重機,流動(油渣)	壹
	CNP 164	大直徑鑽孔樁,抓斗及鑿	壹
		空氣壓縮機,備有噪音標籤顯示聲功率級≤104分貝(A)	壹
	CNP 166	大直徑鑽孔樁,循環式鑽機	貳
		油渣動力供應器	壹
	CNP 283	潛水泵 (電動)	貢
		污水處理器	壹

簽署:

監督 (鄧慧敏 代行)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0150-20</u> 建築噪音許可證編號: <u>GW-RE0150-20</u> 的照片

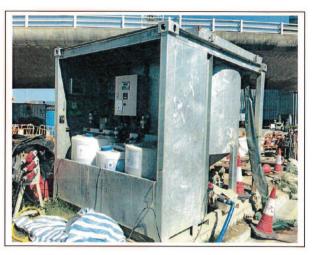


Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤95dB(A) 發電機,備有優質機動設備標籤顯示聲功率級≤95 分貝(A)



CNP 283 Water pump, submersible (electric) 潛水泵 (電動)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0150-20</u> 建築噪音許可證編號: GW-RE0150-20 的照片



Wastewater treatment plant 污水處理器



Power pack (diesel) 油渣動力供應器



Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0150-20</u> 建築噪音許可證編號:<u>GW-RE0150-20</u> 的照片



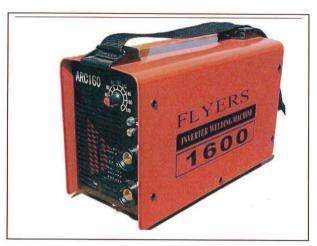
CNP 048 Crane, mobile (diesel) 起重機,流動(油渣)



CNP 044 Concrete lorry mixer 混凝土攪拌車



Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0150-20</u> 建築噪音許可證編號:<u>GW-RE0150-20</u> 的照片



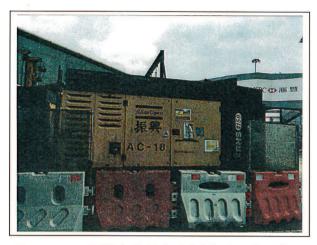
Welding machine (electric) 焊接機 (電動)



CNP 166 Piling, large diameter bored, reverse circulation drill 大直徑鑽孔樁,循環式鑽機



Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0150-20</u> 建築噪音許可證編號:GW-RE0150-20 的照片



Air compressor, with Noise Emission Label showing a Sound Power Level of $\leq 104 dB(A)(1)$

空氣壓縮機,備有噪音標籤顯示聲功率級≤104分貝(A) (一)



Air compressor, with Noise Emission Label showing a Sound Power Level of ≤ 104 dB(A) (2)

空氣壓縮機,備有噪音標籤顯示聲功率級≦104分貝(A) (二)



Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0150-20</u> 建築噪音許可證編號:<u>GW-RE0150-20</u> 的照片

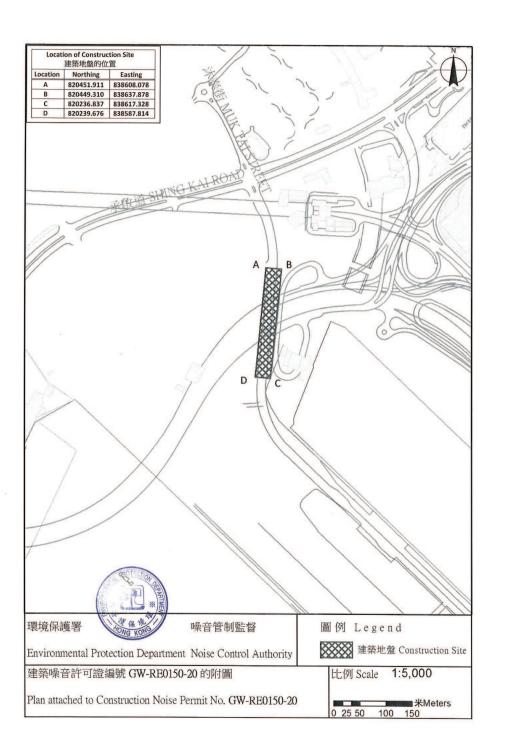


CNP 165 Piling, large diameter bored, oscillator 大直徑鑽孔樁,擺動機



CNP 164 Piling, large diameter bored, grab and chisel 大直徑鑽孔樁,抓斗及鑿





本署檔案

OUR REF: (4) in EP631/K19/RE453737-20

YOUR REF

電話 TEL NO: 2150 8081

圖文傳直

FAX NO: 2402 8275

细 til-

HOMEPAGE: http://www.epd.gov.hk/

Registered Post

Environmental Protection Department Environmental Compliance Division Regional Office (East) 8/F., Cheung Sha Wan Government Offices.



RECEIVED

1 7 MAR 2020

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PENTA-OCEAN KTD (902)

16 March 2020

PENTA - OCEAN CONSTRUCTION CO., LTD.

Flat 601, K. Wah Centre.

191 Java Road.

North Point, Hong Kong

Dear Sir.

Notice of Issue of Construction Noise Permit pursuant to section 8(6) of the Noise Control Ordinance (Cap. 400)

I write to inform you that, under section 8(6) of the Noise Control Ordinance, the Authority has decided to issue a construction noise permit in respect of your application, which was received by the Authority on 27 February 2020 for the use of powered mechanical equipment for carrying out construction work at Kai Tak Development - Stage 4 infrastructure at the former runway and south apron (Works Area Part 1), Kai Tak. Kowloon (CEDD Contract No. ED/2018/01).

The construction noise permit No. GW-RE0173-20 is enclosed.

You are advised to read the conditions of the permit carefully and to ensure compliance with these conditions. Any breaching of the conditions may lead to cancellation of the permit, subsequent prosecution action and the Authority's refusal to issue further permit for the above construction site.

Yours faithfully.

(TANG Wai-man, Lisa) for Authority

Note:

Electronic submission of application for construction noise permit is available at Environmental Protection Department's website. File attachments with total size not exceeding 20 MB in acceptable format are allowed for electronic form can be downloaded from our Electronic application (https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain.jsp) and an overview of application submission (https://epic.epd.gov.hk/eForm/introduce.html) is provided for more information.

(4) in EP631/K19/RE453737-20

2150 8081

2402 8275

掛號承件

致:

香港 北角

渣華道 191 號

嘉華國際中心 601 室

PENTA - OCEAN CONSTRUCTION CO., LTD.

執事先生:

根據《噪音管制條例(第400章)》第8(6)條 發出的通知書 — 簽發「建築噪音許可證」

本監督於二零二零年二月二十七日,收到你擬於下述地址:九龍啟德啟德發展計 劃-前跑道及南面停機坪第四期基礎設施(工作地區第一部分) (土木工程拓展署合約編號 ED/2018/01),使用機動設備進行建築工程而提出的「建築噪音許可證」申請,現根據 《噪音管制條例》第8(6)條的規定通知你,上述的申請已被批准。

隨承附上「第GW-RE0173-20號建築噪音許可證」。

請細閱許可證各項條件,確保遵守,如有違反,本監督可撤銷許可證,提出檢控 及拒絕再就上述地盤簽發任何「建築噪音許可證」。

監督



代行)

二零二零年三月十六日

注意:

環境保護署提供網上申請「建築噪音許可證」服務。網上申請容許上傳檔案總容量不大於 20 MB 的有 關文件。可於本署網頁下載電子表格

(https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain .jsp)及參閱電子表格提交服務概覽(https://epic.epd.gov.hk/eForm/introduce.html),了解更多資料。

FORM 3 NOISE CONTROL ORDINANCE (Chapter 400) SECTION 8(9)

[reg.5(a)]

CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK

CONSTRUCTION NOISE PERMIT NO. GW-RE0173-20

To): F	PENTA – OCEAN CONSTRUCT	TION CO., LTD.	
pov	wered scrib	I mechanical equipment for the pur ed construction work, subject to the	accordance with section 8 of the Noise Control Ordinance. Permission is granted pose of carrying out construction work other than percussive piling and/or the conditions set out below. The carrying out of construction work otherwise than in a cancelled and in a prosecution for an offence.	carrying out o
			CONDITIONS	
1.	Ful	ll address: Kai Tak Development	chanical equipment and/or prescribed construction work may be employed: — Stage 4 infrastructure at the former runway and south apron (Works Area Pa	rt 1), Kai Tak
	Ko	wloon (CEDD Contract No. ED/201)	8/01) Lot No.:	***************************************
	The	e site boundary, that is, the boundar struction work may be carried out is	y of the area within which the powered mechanical equipment may be used and delineated on the attached plan which forms part of this construction noise permit.	the prescribed
2.	* P.	ART/WHOLE of the site falls * WIT	HIN/OUTSIDE a designated area.	
3.	Pov	wered Mechanical Equipment		
	a.	Items of powered mechanical equip	ment which may be used inside the site boundary:	
		Identification code of item of powered mechanical equipment (if applicable)	Description of item of powered mechanical equipment	No. of units
		·	Refer to attached sheet.	
	b.	Validity of the construction noise pe	rmit for the use of the powered mechanical equipment:	
		Date and time of commencement:		
		Days and hours: 0000-2400 hou	rs on general holiday (including Sunday), 0000-0700 hours and 1900-2400 hours	n any day not
		being a general holiday [but no	te Condition 3.d.1. below for the operating hours within which the use of the	above listed
		powered mechanical equipment is	allowed].	
		This part of the permit expires on:	27 October 2020 at 2400 hours	
	c.	One photograph, endorsed by the	Authority, of each item of powered mechanical equipment described in this corconstruction site and made available for inspection by the Authority.	
	d.	Other conditions imposed on the use	e of the powered mechanical equipment:	
		Refer to attached sheet.		
				//////////////////////////////////////

4	Danasailla af	Construction	Worle
4.	Prescribed	Construction	WORK

a.	Type of prescribed	construction work	which may be carri	ed out inside the site boundary:
----	--------------------	-------------------	--------------------	----------------------------------

Identification code of type of prescribed construction work	Description of type of prescribed construction work
	Not applicable

Date	and time of commencement:	Not applicable	at	Not applicable
Days	and hours: Not applicable.			
This	part of the permit expires on :	Not applicable	. at	Not applicable
of pr	layout plan(s), endorsed by the Auth escribed construction work describe available for inspection by the Auth	d in this permit. The layout plan(mit to indicate the s) is(are) required	ocations permitted for the carrying to be kept on the construction site
Other	r conditions imposed on the carrying	out of the prescribed construction	work:	
		CANADA MARIA M		
		And the state of t		
her-economics				A STATE OF THE STA
***************************************		(AMARICA MARIANTA MAR		
is cons	struction noise permit or a copy th	nereof must be displayed on the	construction site a	all vehicular entrances for public
	struction noise permit or a copy thon.			
	\n.	nereof must be displayed on the		
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* Delete as necessary

表格3

[第5(a)條]

噪音管制條例 (第400章) 第8(9)條

建築噪音許可證 為進行建築工程(撞擊式打樁除外) 而使用機動設備及/或進行訂明建築工程

建築噪	音許可證編號:	GW-RE01	73-20					
致: Pl	ENTA - OCEAN CO	ONSTRUCTION	CO., LTD.					
擊式打	噪音許可證是接 樁工程以外的選 築工程,許可證	整第工程及/	或進行訂明第	建築工程 ,但	〕發出的。 且須受以下	現 准 予 使 月 條 件 規 限 。	月機動設備 若不按照	以進行撞 該等條件
			B	<i>K 1 1 1</i>				
1. 🗒	丁使用機動設備 及	支 /或進行訂	明建築工程的					
言	羊細地址: 九龍島	女德啟德發展:	十劃-前跑道及	有面停機坪第	四期基礎設	施(工作地區	高筆一部分)	(土木工
	星拓展署合約編號				編號:	, , , , , , , , , , , , , , , , , , ,	Pb/3/	_L_/_L_,
	也盤範圍(即可使 圖則是本建築噪音			# 築 工 程 的 b	也方範圍) ē	己描劃於夾	附的圖則	上,而該
2. 該	₹地盤 部分 /全音	水*位於指定	范圍之內/外	* .				
3. 機	動設備							
a	. 在地盤範圍內	可使用的各	項機動設備:					
	各項機動設備 (如適用			各項機劃	助設備的說明	r		数目
			參見附頁。					
b	. 可使用機動設 生效日期及時 日期及時間:	間:		零二零年四月	二十八日	凌晨零		任何一日
	凌晨零時至上 動設備的時間	午七時及下						
	此部分許可證			日	期	時間	-	
c.	建築地盤須備 等照片須經監	有本建築噪 督認可。	音許可證所述	每件機動設	備的照片名	·一幀,供	監督隨時查	还看 ;該
d	規限使用機動	設備的其他	條件:					

- 1 -

4.	訂	明	建	築	I	程

2	在地	般	節園	内	可	谁	行	的	訂	明	建	築	T	程	8

訂明建築工程的識辨代碼	訂明建築工程的類別的說明
	不適用

	日期及時間:不適用。		7 X II	
	此部分許可證屆滿日期及時間:	日期	不適用	時間
c.	本許可證可夾附經監督認可的地盤圖則、以 該地盤圖則須存放於建築地盤供監督隨時查		證准予	進行訂明建築工程的地
d.	規限進行訂明建築工程的其他條件:			
本建	築噪音許可證或其副本必須展示於建築地盤	的所有車輌	兩入口處	,給予公眾人士參閱

* 刪去不適用者

Sheet Attached to Construction Noise Permit No. <u>GW-RE0173-20</u>

3.a. Items of powered mechanical equipment which may be used inside the site boundary:

	n code of item d mechanical	Description of item of	No. of
equipment (if applicable)		powered mechanical equipment	units
Group A		Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A)	One
	***	Piling, vibrating hammer	One
	CNP 048	Crane, mobile (diesel)	One
		Welding machine (electric)	Ten
	P4 84 84	Air blower (electric)	One
	CNP 283	Water pump, submersible (electric)	Eight
		Wastewater treatment plant	Two
Group B		Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A)	One
	CNP 081	Excavator, tracked	One
	CNP 283	Water pump, submersible (electric)	Eight
	but day law	Wastewater treatment plant	Two
		Welding machine (electric)	Ten
	CNP 048	Crane, mobile (diesel)	One
Group C	CNP 283	Water pump, submersible (electric)	Twelve
		Wastewater treatment plant	Two
		Generator, with Quality Powered Mechanical Equipment	Three
		Label showing a Sound Power Level ≤93 dB(A)	
Group D	CNP 044	Concrete lorry mixer	Two
		Poker, vibratory, hand-held (electric)	One
	CNP 047	Concrete pump, stationary	One
	CNP 283	Water pump, submersible (electric)	Six
		Generator, with Quality Powered Mechanical Equipment	One
		Label showing a Sound Power Level ≤93 dB(A)	
		Wastewater treatment plant	Two

Signed : (TANG Wai-man, Lisa) for Authority

建築噪音許可證 編號 GW-RE0173-20 的附頁

3.a. 在地盤範圍內可使用的各項機動設備:

各項機動設備的識辨代碼 (如適用的話)		各項機動設備的說明			
A組		發電機,備有優質機動設備標籤顯示聲功率級≤93分貝(A)	壹		
		打樁機,震動鎚	壹		
	CNP 048	起重機,流動(油渣)	壹		
		焊接機 (電動)	拾		
		吹風機 (電動)	壹		
	CNP 283	潛水泵 (電動)	捌		
		污水處理器	漬		
B組		發電機,備有優質機動設備標籤顯示聲功率級≤93分貝(A)	壹		
	CNP 081	挖土機,履帶式	壹		
	CNP 283	潛水泵 (電動)	捌		
		污水處理器	貢		
		焊接機 (電動)	拾		
	CNP 048	起重機,流動(油渣)	壹		
C組	CNP 283	潛水泵 (電動)	拾貳		
	Section Control	污水處理器	漬		
		發電機,備有優質機動設備標籤顯示聲功率級≤93分貝(A)	叁		
D組	CNP 044	混凝十攪拌車	貳		
		混凝土震動機,手提型(電動)	壹		
	CNP 047	混凝土泵,固定	壹		
	CNP 283	潛水泵 (電動)	陸		
		發電機,備有優質機動設備標籤顯示聲功率級≤93分貝(A)	壹		
		污水處理器	貢		

慧改

簽署:

監督 (鄧慧敏 代行)

Sheet Attached to Construction Noise Permit No. GW-RE0173-20

3.d. Other conditions imposed on the use of the powered mechanical equipment:

1. The powered mechanical equipment listed in condition 3.a shall only be operated during the hours shown below:

Groups A, B and D	General holiday including Sunday	0700 – 1900 hours
	Any day not being a general holiday	1900 – 2300 hours
Group C	General holiday including Sunday	0000 – 2400 hours
<u>Group C</u>	Any day not being a general holiday	0000 - 0700 hours AND 1900 - 2400 hours

2. Only one group of the powered mechanical equipment listed in condition 3.a shall be allowed to operate at any time.

Signed:

(TANG Wai-man, Lisa)

for Authority

建築噪音許可證 編號 GW-RE0173-20 的附頁

3. d. 規限使用機動設備的其他條件:

1. 祇可於以下時間內使用列在條件 3. a 內的機動設備:

A組、B組	公眾假日包括星期日	上午七時 至下午七時
及D組	公眾假日以外的任何一日	下午七時 至 晚上十一時
0.44	公眾假日包括星期日	凌晨零時至晚上十二時
<u>C組</u>	公眾假日以外的任何一日	凌晨零時至上午七時 及 下午七時至晚上十二時

在任何時間內,祇可使用列在條件 3. a. 內其中一組機動設備。

監督

(鄧慧敏 代行)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0173-20</u> 建築噪音許可證編號:<u>GW-RE0173-20</u> 的照片



Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A) 發電機,備有優質機動設備標籤顯示聲功率級≤93 分貝(A)



CNP 283 Water pump, submersible (electric) 潛水泵 (電動)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0173-20</u> 建築噪音許可證編號: <u>GW-RE0173-20</u> 的照片



Wastewater treatment plant 污水處理器



Air blower (electric) 吹風機 (電動)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0173-20</u> 建築噪音許可證編號:<u>GW-RE0173-20</u> 的照片



Poker, vibratory, hand-held (electric) 混凝土震動機,手提型 (電動)





CNP 081 Excavator, tracked 挖土機,履帶式

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0173-20</u> 建築噪音許可證編號:<u>GW-RE0173-20</u> 的照片



CNP 044 Concrete lorry mixer 混凝土攪拌車



Piling, vibrating hammer 打樁機,震動鎚

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0173-20</u> 建築噪音許可證編號:<u>GW-RE0173-20</u> 的照片



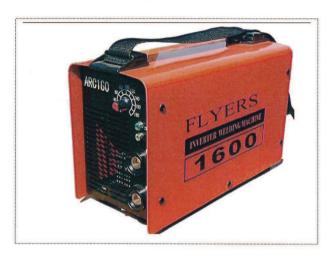
CNP 048 Crane, mobile (diesel) (1) 起重機,流動(油渣)(1)





CNP 048 Crane, mobile (diesel) (2) 起重機,流動(油渣)(2)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0173-20</u> 建築噪音許可證編號:<u>GW-RE0173-20</u> 的照片

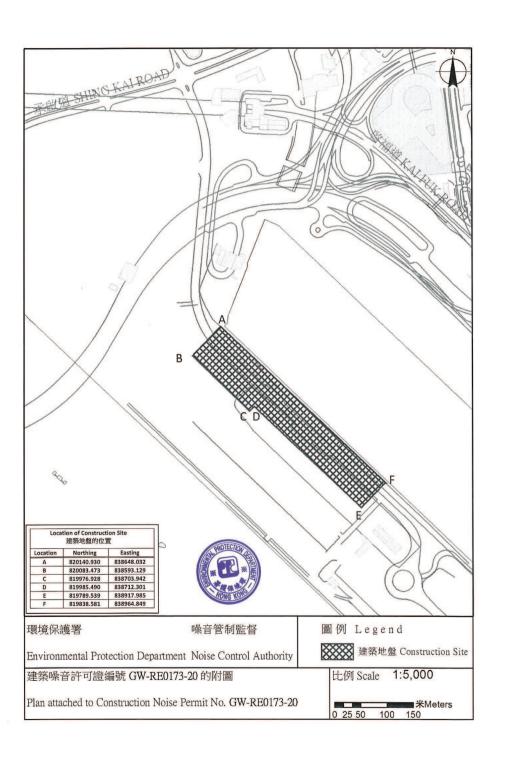


Welding machine (electric) 焊接機 (電動)





CNP 047 Concrete pump, stationary 混凝土泵,固定



本署檔案

OUR REF: (4) in EP631/K19/RE454301-20

OUR REF: (4) in EP631/K19 來函檔案

YOUR REF: 電話

TEL NO: 2150 8081

圖文傳真

FAX NO: 2402 8275

網址

HOMEPAGE: http://www.epd.gov.hk/

Environmental Protection Department Environmental Compliance Division Regional Office (East)

Regional Office (East) 8/F., Cheung Sha Wan Government Offices, 303 Cheung Sha Wan Road, Kowloon 環境保護署 1684 環保法規管理科 區域辦事處(東) 九龍長沙灣道 303 號 長沙灣政府合署 8 樓

hffices, Road, 是沙灣政府包 Wloon

Registered Post

31 March 2020

To: PENTA - OCEAN CONSTRUCTION CO., LTD.

Flat 601, K. Wah Centre,

191 Java Road.

North Point, Hong Kong



Dear Sir,

Notice of Issue of Construction Noise Permit pursuant to section 8(6) of the Noise Control Ordinance (Cap. 400)

I write to inform you that, under section 8(6) of the Noise Control Ordinance, the Authority has decided to issue a construction noise permit in respect of your application, which was received by the Authority on 13 March 2020 for the use of powered mechanical equipment for carrying out construction work at Kai Tak Development – Stage 4 infrastructure at the former runway and south apron (Works Area WA1), Kai Tak, Kowloon (CEDD Contract No. ED/2018/01).

The construction noise permit No. GW-RE0228-20 is enclosed.

You are advised to read the conditions of the permit carefully and to ensure compliance with these conditions. Any breaching of the conditions may lead to cancellation of the permit, subsequent prosecution action and the Authority's refusal to issue further permit for the above construction site.

Yours faithfully.

(TANG Wai-man, Lisa) for Authority

Note:

Electronic submission of application for construction noise permit is available at Environmental Protection Department's website. File attachments with total size not exceeding 20 MB in acceptable format are allowed for electronic submission. Electronic application form can be downloaded from our website (https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain.jsp) and an overview of application submission (https://epic.epd.gov.hk/eForm/introduce.html) is provided for more information.

(4) in EP631/K19/RE454301-20

2150 8081

2402 8275

掛號函件

致: 香港 北角

渣華道 191 號

嘉華國際中心 601 室

PENTA - OCEAN CONSTRUCTION CO., LTD.

0 1717 13

執事先生:

根據《噪音管制條例(第400章)》第8(6)條發出的通知書 — 簽發「建築噪音許可證」

本監督於二零二零年三月十三日,收到你擬於下述地址:九龍啟德啟德發展計劃-前跑道及南面停機坪第四期基礎設施(工作地區 WAI)(土木工程拓展署合約編號ED/2018/01),使用機動設備進行建築工程而提出的「建築噪音許可證」申請,現根據《噪音管制條例》第8(6)條的規定通知你,上述的申請已被批准。

隨函附上「第 GW-RE0228-20 號建築噪音許可證」。

請細閱許可證各項條件,確保遵守,如有違反,本監督可撤銷許可證,提出檢控及拒絕再就上述地盤簽發任何「建築噪音許可證」。

監督

(鄧慧每



代行)

二零二零年三月三十一日

注意:

環境保護署提供網上申請「建築噪音許可證」服務。網上申請容許上傳檔案總容量不大於 20 MB 的有關文件。可於本署網頁下載電子表格

(https://epic.epd.gov.hk/eForm/ChangeLanguage.do?language=eng&url=/pages/datadownload/downloadMain .jsp)及參閱電子表格提交服務概覽(https://epic.epd.gov.hk/eForm/introduce.html),了解更多資料。

FORM 3 NOISE CONTROL ORDINANCE (Chapter 400) SECTION 8(9)

[reg.5(a)]

CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK

		THE CARRYING	OUT OF PRESCRIBED CONSTRUCTION WORK	
CON	IST	RUCTION NOISE PERMIT N	O. GW-RE0228-20	
To:	PE	NTA – OCEAN CONSTRUCTIO	N CO., LTD.	
power	red ibea	mechanical equipment for the purpos I construction work, subject to the co	ordance with section 8 of the Noise Control Ordinance. Permission is grant e of carrying out construction work other than percussive piling and/or the nditions set out below. The carrying out of construction work otherwise the g cancelled and in a prosecution for an offence.	e carrying out of
			CONDITIONS	
1. 0	Fu	II address : Kai Tak Development	anical equipment and/or prescribed construction work may be employed: - Stage 4 infrastructure at the former runway and south apron (Works ED/2018/01). Lot No.:	
			f the area within which the powered mechanical equipment may be used at ineated on the attached plan which forms part of this construction noise perm	
2. *	PΑ	RT/WHOLE of the site falls * WITH	N/OUTSIDE a designated area.	
3. F	ow	ered Mechanical Equipment		
a	1.	Items of powered mechanical equipme	ent which may be used inside the site boundary:	
		Identification code of item of powered mechanical equipment (if applicable)	Description of item of powered mechanical equipment	No. of units
		Group A	Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A)	Two
		CNP065	Drill hand-held (electric)	One
		Group B	Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A)	One
t	o.	Date and time of commencement :	nit for the use of the powered mechanical equipment: 05 April 2020 at 0000 hours on general holiday (including Sunday), 0000-0700 hours and 1900-2400 ho	urs on any day not
		***************************************	condition 3.d.1. below for the operating hours within which the use of	***************************************
		powered mechanical equipment is all	owed].	
		This part of the permit expires on:	04 September 2020 at 2400 hours	***************************************
C	с.	One photograph, endorsed by the Aut	hority, of each item of powered mechanical equipment described in this construction site and made available for inspection by the Authority.	ruction noise
C	d.	Other conditions imposed on the use of Refer to attached sheet.	of the powered mechanical equipment:	

4	D	C	337
4.	Prescriped	Construction	wor

a. 7	Type of a	prescribed	construction	work which	may be	carried	out inside	the site	boundary:	•
------	-----------	------------	--------------	------------	--------	---------	------------	----------	-----------	---

Identification code of type of prescribed construction work	Description of type of prescribed construction work
	Not applicable

	Validity of the construction noise permit for	the carrying out of the prescribe	d construction work:	
	Date and time of commencement:	Not applicable	at	Not applicable
	Days and hours: Not applicable.			
	This part of the permit expires on :	Not applicable	at	Not applicable
	Site layout plan(s), endorsed by the Author out-of-prescribed-construction work-describ and made-available for inspection by the At	ed in this permit. The layout pl		
	Other conditions imposed on the carrying o	ut of the prescribed construction	work:	

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	is construction noise permit or a copy the formation.	reof must be displayed on the	construction site at	all vehicular entrances for publi
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
ai	ted this 31st day of March	20. 20		
•	mananananana an anananananananananananan	and the same of th		
			\	P.
		Signed:		CALANTANA DE CALANTANA DE CALANTAN DE
			,	ai-man, Lisa)
			for A	luthority

EPD76A(s)

^{*} Delete as necessary

表格 3 噪音管制條例 (第400章)

第8(9)條

[第5(a)條]

建築噪音許可證 為進行建築工程(撞擊式打樁除外) 而使用機動設備及/或進行訂明建築工程

建築噪音許可證編號: C 致:PENTA - OCEAN CONSTRI 本建築噪音許可證是按照《 撞擊式打椿工程以外的建築 條件進行建築工程,許可證	ICTION CO., LTD. 噪音管制條例》第8 工程及/或進行訂明	建築工程,但須受以下		
本建築噪音許可證是按照《 推擊式打樁工程以外的建築 條件進行建築工程,許可證	噪音管制條例》第8 工程及/或進行訂明 可遭撤銷,而且會受	建築工程,但須受以下 到檢控。		
撞擊式打樁工程以外的建築 條件進行建築工程,許可證	工程及/或進行訂明可遭撤銷,而且會受	建築工程,但須受以下 到檢控。		
1 可使田継動設備及/式	條	<i>(</i> #		
1 可使田機動設備及/或		, ,		
1. 写医用级题以用及/以	進行訂明建築工程的	建築地盤:		
詳細地址:九龍啟德啟名	惠發展計劃-前跑道及南	面停機坪第四期基礎設施	(工作地區WA1) (<u>-</u>	上木工程拓
展署合約編號ED/2018/0	[)。	地段編號:		
地盤範圍(即可使用機 圖則是本建築噪音許可	動設備及進行訂明建	築工程的地方範圍)已招	苗劃於夾附的圖則	上,而該
2. 該地盤 部分 /全部*位加		•		
3. 機動設備				
a. 在地盤範圍內可使	用的各項機動設備:			
各項機動設備的論 (如適用的語		各項機動設備的說明	,	數目
A組		有優質機動設備標籤顯示聲 型 (電動)	办率級≦93分貝(A)	貳 壹
B組		有優質機動設備標籤顯示聲	功率級≦93 分貝(A)	壹
b. 可使用機動設備的		**		
生效日期及時間:		二零二零年四月五日		
	······································	凌晨零時至晚上十二時		
変展零時至上午亡 動設備的時間】。	時及下午亡時至晚上	十二時【但須注意條件	3.d.1. 有 關 可 以 使	用上列碳
此部分許可證屆滿	日期及時間:	二零二零年九月四日	晚上十二時	***************************************
		日 期	時間	
c. 建築地盤須備有本 等照片須經監督認		每件機動設備的照片各-	一幀,供監督隨時	查看;該
d. 規限使用機動設備	的其他條件:			
參見附頁。				

-1-

4. 訂明建築工程

	a.	在地	船	範圍	内	口	進	行	的	計	明	建	築	T.	程	
--	----	----	---	----	---	---	---	---	---	---	---	---	---	----	---	--

訂明建築工程的識辨代碼		訂明建築工	工程的類別的說明
	不適用		
	_		
可進行訂明建築工程的建築	操音許可證有效期:		
生效日期及時間: 不適用			
日期及時間: 不適用。			
此部分許可證屆滿日期及時		不適用	
	日其		時間
本許可證可夾附經監督認可 該地盤圖則須存放於建築地		等可證准予	進行訂明建築工程的地
規限進行訂明建築工程的其	d. Mr. M.		

本建	築噪	音許	可	證马	(其	副	本	必	須)	展	示	於	建	築	地	盤	的	所	有	車	輛	人	處	,	給	予	公	眾	人	士	參閱	周	o	

日期:2020 年 3 月 31 日

簽署:

監督 (鄧慧敏 代行)

* 删去不適用者

5.

Sheet Attached to Construction Noise Permit No. GW-RE0228-20

3.d. Other conditions imposed on the use of the powered mechanical equipment:

1. The powered mechanical equipment listed in condition 3.a. shall only be operated during the hours shown below:

Grown A	General holiday including Sunday	0700 – 1900 hours
Group A	Any day not being a general holiday	1900 – 2300 hours
	General holiday including Sunday	0000 – 2400 hours
Group B	Any day not being a general holiday	0000 – 0700 hours 1900 – 2400 hours

2. Only one group of the powered mechanical equipment listed in condition 3.a. shall be allowed to operate at any time.

Signed:_____

(TANG Wai-man, Lisa) for Authority

建築噪音許可證 編號 GW-RE0228-20 的附頁

3. d. 規限使用機動設備的其他條件:

1. 祇可於以下時間內使用列在條件 3.a. 內的機動設備:

A & 🗆	公眾假日包括星期日	上午七時至晚上七時
A組	公眾假日以外的任何一日	下午七時至晚上十一時
7555-4 9 5750	公眾假日包括星期日	凌晨零時至晚上十二時
B組	公眾假日以外的任何一日	凌晨零時至上午七時 下午七時至晚上十二時

2. 在任何時間內,祇可使用列在條件 3.a. 內其中一組機動設備。

簽署

製卸

監督 (鄧慧敏 代行)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0228-20</u> 建築噪音許可證編號:<u>GW-RE0228-20</u> 的照片



Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level \leq 93 dB(A)

發電機,備有優質機動設備標籤顯示聲功率級≤93分貝(A)





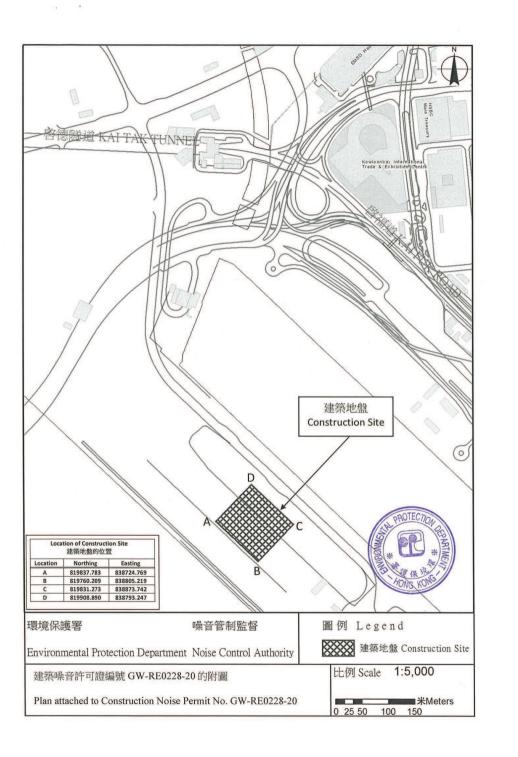
Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level $\leq\!93$ dB(A)

發電機,備有優質機動設備標籤顯示聲功率級≤93分貝(A)

Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0228-20</u> 建築噪音許可證編號: <u>GW-RE0228-20</u> 的照片



CNP 065 Drill, hand-held (electric) 鑽,手提型 (電動)



Appendix P – Environmental Mitigation Implementation Schedule (EMIS)

EIA for KTD Development Ref.	elopment - Roads D3A			
S3.2		8 times daily watering of the work site with active dust emitting	^	
		activities.		
S3.2	S4.8	Implementation of dust suppression measures stipulated in Air		
		Pollution Control (Construction Dust) Regulation. The following		
		mitigation measures, good site practices and a comprehensive dust		
		monitoring and audit programme are recommended to minimize		
		cumulative dust impacts.		
		- Stockpiling site(s) should be lined with impermeable sheeting	^ *	
		and bunded. Stockpiles should be fully covered by		
		impermeable sheeting to reduce dust emission.		
		- Misting for the dusty material should be carried out before	٨	
		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	٨	
		exit point.		
		- The area where vehicle washing takes place and the section of	۸	
		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	NA	
		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	٨	
		from its body and wheels before leaving the construction sites.		

Implementatio	on Schedule for 1	Noise Measures	
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 barrier for Asphalt Paver,	۸
		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	٨
		plant should be serviced regularly during the construction	
		program.	
		- Silencers or mufflers on construction equipment should be	٨
		utilized and should be properly maintained during the	
		construction program.	
		- Mobile plant, if any, should be sited as far away from NSRs as	٨
		possible.	
		- Machines and plant (such as trucks) that may be in intermittent	٨
		use should be shut down between works periods or should be	
		throttled down to a minimum.	
		- Plant known to emit noise strongly in one direction should,	٨
		wherever possible, be orientated so that the noise is directed	
		away from the nearby NSRs.	
		- Material stockpiles and other structures should be effectively	^
		utilized, wherever practicable, in screening noise from on-site	
		construction activities.	
		- Scheduling of Construction Works during School	^
		Examination Period	

Implementation Schedule for Water Quality Measures				
EIA for KTD Development Ref.	_		Status	
S3.4		Construction Runoff Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:		
S3.4		- use of sediment traps.	۸	
S3.4		- adequate maintenance of drainage systems to prevent flooding	^*	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		and overflow.	
	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,	٨
		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	NA
	55.0	adequately covered and temporarily sealed so as to prevent silt,	11/1
		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	

Implementatio	Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status	
		always be prevented in order not to unduly overload the foul		
		sewerage system.		
	S5.8	- Good site practices should be adopted to remove rubbish and	٨	
		litter from construction sites so as to prevent the rubbish and		
		litter from spreading from the site area. It is recommended to		
		clean the construction sites on a regular basis.		
S3.4		Construction site should be provided with adequately designed	٨	
		perimeter channel and pre-treatment facilities and proper		
		maintenance. The boundaries of critical areas of earthworks should		
		be marked and surrounded by dykes or embankments for flood		
		protection. Temporary ditches should be provided to facilitate runoff		
		discharge into the appropriate watercourses, via a silt retention pond.		
		Permanent drainage channels should incorporate sediment basins or		
		traps and baffles to enhance deposition rates. The design of efficient		
		silt removal facilities should be based on the guidelines in Appendix		
		A1 of ProPECC PN 1/94.		
S3.4	S5.8	Ideally, construction works should be programmed to minimise	٨	
	~~~	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.		
S2 4			^	
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		

EIA for KTD	Implementation Schedule for Water Quality Measures  EIA for KTD   EIA for KTD   Environmental Protection Measures / Mitigation Measures   Status				
Development Ref.	- Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status		
		flexible and able to handle multiple inputs from a variety of sources			
		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	NA		
		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	٨		
		All vehicles and plant should be cleaned before leaving a			
		construction site to ensure no earth, mud, debris and the like is			
		deposited by them on roads. An adequately designed and located			
		wheel washing bay should be provided at every site exit, and			
		wash-water should have sand and silt settled out and removed at			
		least on a weekly basis to ensure the continued efficiency of the			
		process. The section of access road leading to, and exiting from, the			
		wheel-wash bay to the public road should be paved with sufficient			
		backfall toward the wheel-wash bay to prevent vehicle tracking of			
		soil and silty water to public roads and drains.			
S3.4		<u>Drainage</u>	٨		
		It is recommended that on-site drainage system should be installed			
		prior to the commencement of other construction activities.			
		Sediment traps should be installed in order to minimise the sediment			
		loading of the effluent prior to discharge into foul sewers. There			
		See the first of discussion into four servers. There			

EIA for KTD	EIA for KTD	<b>Environmental Protection Measures / Mitigation Measures</b>	Status
Development Ref.	<ul><li>Roads D3A</li><li>&amp; D4A Ref.</li></ul>		Status
S3.4		All temporary and permanent drainage pipes and culverts provided	٨
		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	٨
		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.	
S3.4	S5.8	Sewage Effluent	٨
		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.	
S3.4		Stormwater Discharges	٨
		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	٨
		In order to maintain water quality in acceptable conditions with	
		regard to aesthetic quality, contractors should be required, under	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		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.	
	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	٨
		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.	

Implementatio	on Schedule for '	Water Quality Measures							
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	D3A				ds D3A			
		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							
	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	^						
	S5.8	transport.  - Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.	۸						
	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:			
S3.5		- 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.	^		
	S6.7	- 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.	^		

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
S3.5	S6.7	- Training of site personnel in proper waste management and	^
		chemical waste handling procedures.	
S3.5	S6.7	- Provision of sufficient waste disposal points and regular	^*
		collection for disposal.	
S3.5	S6.7	- Appropriate measures to minimise windblown litter and dust	^
		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	٨
		damage or contamination of construction materials.	
S3.5		Construction and Demolition Materials	
		Mitigation measures and good site practices should be incorporated	
		in the contract document to control potential environmental impact	
		from handling and transportation of C&D material. The mitigation	
		measures include:	

Implementatio	on Schedule for	Wast	te Management Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.		Environmental Protection Measures / Mitigation Measures	Status
S3.5		-	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.	^
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.	۸
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.	٨
S3.5		-	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.	^
S3.5		-	All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.	۸
S3.5		-	The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.	^
S3.5		-	When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.	

Implementation Schedule for Waste Management Measures					
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	<b>Environmental Protection Measures / Mitigation Measures</b>	Status		
	S6.7	- Plan and stock construction materials carefully to minimize	٨		
		amount of waste generated and avoid unnecessary generation			
		of waste.			
S3.5		<u>Chemical Waste</u>	۸		
		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	٨		
		General refuse should be stored in enclosed bins or compaction units			
		separate from C&D material. A licensed waste collector should be			
		employed by the contractor to remove general refuse from the site,			
		separately from C&D material. Effective collection and storage			
		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					
EIA for KTD Development Ref.	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	۸			
S3.8.12		Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.	NA			
S3.8.12		Control of night-time lighting.	٨			
S3.8.12		Erection of decorative screen hoarding.	٨			
	S7.9	Construction Site Control  - CM1 - Minimized construction area and contractor's temporary works areas.	۸			
		- CM2- Control of night-time lighting and glare by hooding all	٨			

Implementation Schedule for Landscape and Visual Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	<b>Environmental Protection Measures / Mitigation Measures</b>	Status	
		lights.		
		- CM3 - Erection of decorative mesh screens or construction	٨	
		hoardings around works areas in visually unobtrusive colours.		
		- CM4 - Reduction of construction period to practical minimum.	٨	
		- CM5 - Limitation of / Ensuring no run-off into surrounding	٨	
		landscape and adjacent seawater areas.		
		- CM6 - Temporary or advance landscape should be provided	NA	
		along the temporary access roads to the Cruise Terminal until		
		such time as road D3 is open.		

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

## Mitigation Measures undertaken by the Contractor for site inspections





Date:	2 Apr 2020	Date:	9 Apr 2020
Mitigation Measures:	Quiet PME was used.	Mitigation Measures:	Watering of the work site
			with active dust emitting
			activities.





Date:	23 Apr 2020	Date:	23 Apr 2020	
Mitigation Measures:	Stockpile was been covered properly.	Mitigation Measures:	Sand bags were provided to prevent the overflow of	
			surface run-off.	

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

**Reporting Month: April 2020** 

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	0	0	0

Complaint Log for	· ED/2018/01			
Complaint Log for EPD Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
		No compliant was receipted in Jan, Feb, Mar and		
		Apr 2020.		