# **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

June 2020

(Version 1.1)

Certified By:

(Environmental Team Leader)



Ref.: CEDKTDS4EM00\_0\_0088L.20

11 July 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 June 2020

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for June 2020 (Version 1.1) certified by the ET Leader and provided to us via email on 8 July 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

Manson Yeung

Independent Environmental Checker

C.C.

CEDD

Attn.: Mr. Ronald Siu

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Ka Shing

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Penta-Ocean

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#### **EXECUTIVE SUMMARY**

1. This is the 6<sup>th</sup> Monthly Environmental Monitoring & Audit (EM&A) report which summaries the findings of the EM&A Programme during the reporting period from 1 to 30 June 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 complaint	Description of complaint	Recommendations / Action take	Close-out date / Status
No complaint	NA	NA	NA	NA

Date of Notification from EPD	Date of complaint	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:
  - Installation of Sheet Pile for Construction of Underpass and Noise Barrier
  - Pumping Test at North Depressed Road Cofferdam and South Depressed Road
  - Construction of Bored Pile of Bridge D3
  - ELS Installation & Excavation for North Depressed Road and South Depressed Road
  - Construction of base slab, walls and columns for North Approach Ramp
  - Permanent Structure Construction for North Depressed Road

#### **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
Installation of Sheet Pile for Construction of Underpass and	Noise and Air Quality
Noise Barrier	
Pumping Test at North Depressed Road Cofferdam and South	Noise
Depressed Road	
Construction of Bored Pile of Bridge D3	Noise and Air Quality
ELS Installation & Excavation for North Depressed Road and	Noise and Air Quality
South Depressed Road	
Construction of base slab, walls and columns for North	Noise and Air Quality
Approach Ramp	
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. Manson Yeung	IEC	9700 6767	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



Installation of Sheet Pile for Construction of Underpass and Noise Barrier



Pumping Test at North Depressed Road Cofferdam and South Depressed Road



Construction of Bored Pile of Bridge D3



ELS Installation & Excavation for North Depressed Road and South Depressed Road



Construction of base slab, walls and columns for North Approach Ramp



Permanent Structure Construction for North Depressed Road

#### **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 2.3	Condition 2.3	Condition 2.3	Updated Management Organization of Main Construction Companies	28 May 2020
Condition 2.4	Condition 2.4	Condition 2.4	Design Drawings	6 Jan 2020
Condition 2.11	Condition 2.5	Condition 2.5	Landscape Mitigation Plans	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 (May 2020)	11 June 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 Sheltered Workshop	Rooftop	- 24-hour average TSP - 1-hour	- 24 hours - 1 hour	<ul><li>Once every 6 days</li><li>Three times</li></ul>
AM7 - Hong Kong Children's Hospital	Rooftop	average TSP		every 6 days

- 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 m<sup>3</sup>/min. and 1.7 m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.11 For TSP sampling, Glass Fiber Filter Media 8" x 10" have a collection efficiency of > 99 % for particles of 0.3  $\mu$ m diameter were used.
- 2.12 The power supply was checked to ensure the sampler worked properly. 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.

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

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

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

Parameter	Air Monitoring Station	Action Level, µg/m <sup>3</sup>	Limit Level, µg/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 <sup>3</sup>	Range, μg/m <sup>3</sup>	Action Level, μg/m <sup>3</sup>	Limit Level, μg/m <sup>3</sup>
AM3	38	21-57	182	260
AM4(A)	34	27-45	187	260
AM7	38	29-45	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 <sup>3</sup>	Range, μg/m <sup>3</sup>	Action Level, μg/m <sup>3</sup>	Limit Level, μg/m <sup>3</sup>
AM3	39	22-57	297	500
AM4(A)	40	24-60	326	500
AM7	40	24-52	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 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	1	$L_{\text{Aeq,}} L_{\text{A10}}$ and $L_{\text{A90}}$	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 dD(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 <sub>Aeq, 30-min</sub> , Average, dB(A)	Measured L <sub>Aeq, 30-min</sub> , Range, dB(A)	Action Level	Limit Level ^
M11	67.8	66.6-68.5	When one documented	75
M12	67.6	64.6-70.2	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  $L_{\text{Aeq}}$ ,  $_{30\text{min}}$  recorded during the reporting month.
- 3.22 Graphical presentation and detailed monitoring results are shown in Appendix K.
- 3.23 The Event and Action Plan is provided in Appendix L.
- 3.24 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

## 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	Predicted Cumulative Maximum 24-hour average TSP concentration  Scenario 1 Scenario 2 (Mid 2009 to Mid 2013), Late 2016), µg/m³ µg/m³		Measured 24-hr average TSP in Reporting Month (June 2020) µg/m³
AM3 - Sky Tower	A40^	106	138	21-57
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	A43^	123	195	27-45
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	29-45

Note:

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

Air Monitoring Station	ASR No. in EIA report	1-hour av	lative Maximum erage TSP stration Scenario 2 (Mid 2013 to	Measured 1-hr average TSP in Reporting Month
		Mid 2009 to Mid 2013), μg/m <sup>3</sup>	Late 2016), µg/m <sup>3</sup>	(June 2020) μg/m <sup>3</sup>
AM3 - Sky Tower	A40	217^	247^	22-57
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	A43	283^	409^	24-60
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	24-52

Note:

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

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

<u>Table 4.3 Comparison of Noise Monitoring Data with EIA predictions</u>

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 (June 2020) L <sub>Aeq, 30min</sub> , dB(A)
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	N18	50 – 76*	66.6-68.5
M12 - Hong Kong Children's Hospital	PN83, PN84, PN84A	NA	64.6-70.2

#### Note:

- 4.2 24-hour TSP monitoring results at AM3, AM4(A) were recorded lower than the prediction in the EIA Report.
- 4.3 No prediction in the EIA Report for 24-hour TSP monitoring results at AM7.
- 4.4 1-hour TSP monitoring results at AM3, AM4(A) were recorded lower than the prediction in the EIA Report.
- 4.5 No prediction in the EIA Report for 1-hour TSP monitoring results at AM7.
- 4.6 Noise monitoring results at M11 was recorded lower than the prediction in the EIA Report.
- 4.7 No prediction in the EIA Report for noise monitoring results at M12.

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

#### 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 4, 11, 18 and 24 June2020 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
4 June 2020	No	NA	NA
11 June 2020	No	NA	NA
18 June 2020	No	NA	NA
24 June 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 4, 11, 18 and 24 June 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
4 June 2020	Observation: The stagnant water should be cleared	Action Taken: The stagnant water has been cleared.	Closed-out 11 June 2020
11 June 2020	NA	NA	NA

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
18 June 2020	Observation: The noise barrier for excavator mounted concrete breaker shall be replaced with new one for improving noise reduction effect.	Action Taken: The noise barrier for excavator mounted concrete breaker was replaced.	Closed-out 24 June 2020
24 June 2020	NA	NA	NA

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

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

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

6.6 A summary of the relevant permits, licenses and/or notifications on environmental protection for the Project is shown in Table 6.2. Environmental licenses 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-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
	GW-RE0449-20	1 Jun 2020	26 Nov 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 complaint	Description of complaint	Recommendations / Action take	Close-out date / Status
No complaint	NA	NA	NA	NA

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

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	NA	NA	NA	NA
of summons				
and				
successful				
prosecutions				
were				
received in				
the reporting				
month.				

6.12 The summaries of cumulative environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in Appendix 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	
Installation of Sheet Pile for Construction of Underpass and	Noise and Air Quality	
Noise Barrier		
Pumping Test at North Depressed Road Cofferdam and South	Noise	
Depressed Road		
Construction of Bored Pile of Bridge D3	Noise and Air Quality	
ELS Installation & Excavation for North Depressed Road and	Noise and Air Quality	
South Depressed Road		
Construction of base slab, walls and columns for North	Noise and Air Quality	
Approach Ramp		
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

### **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

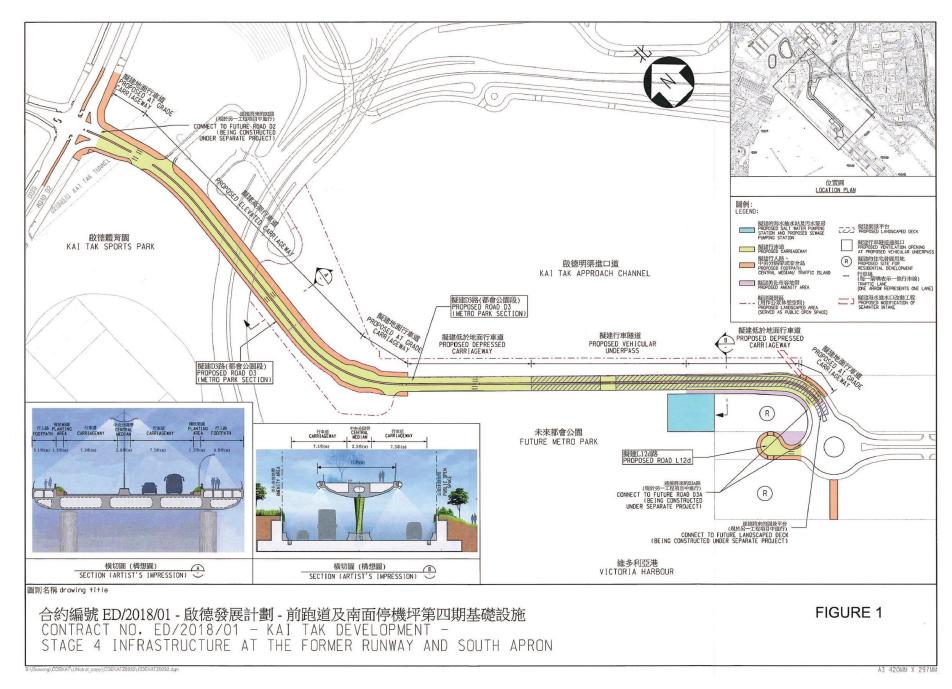


Figure 1 – Proposed works of Contract No. ED/2018/01

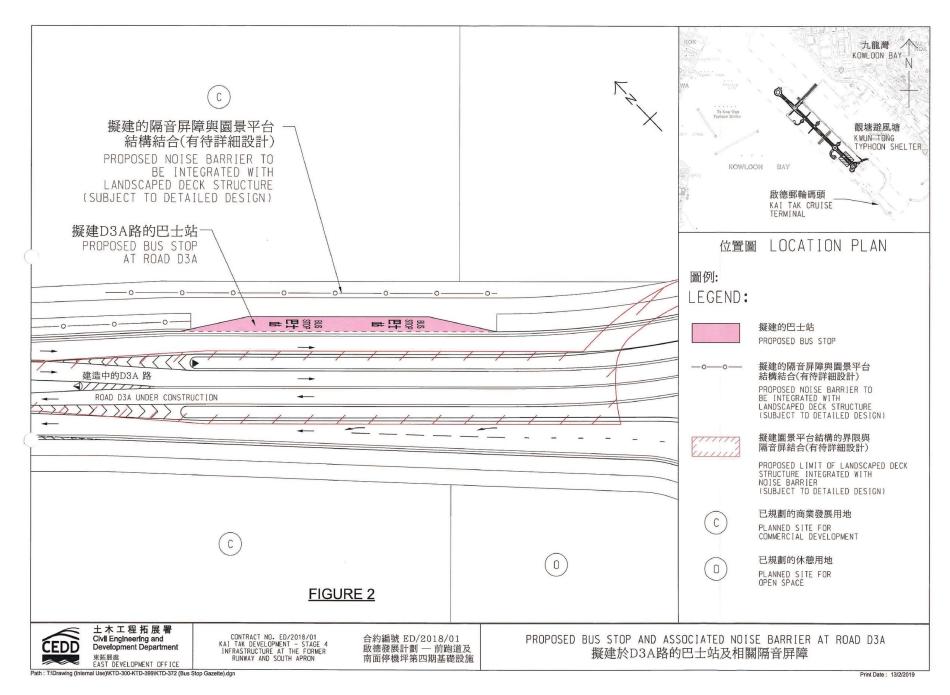


Figure 2 – Proposed Bus Stop And Associated Noise Barrier At Road D3A

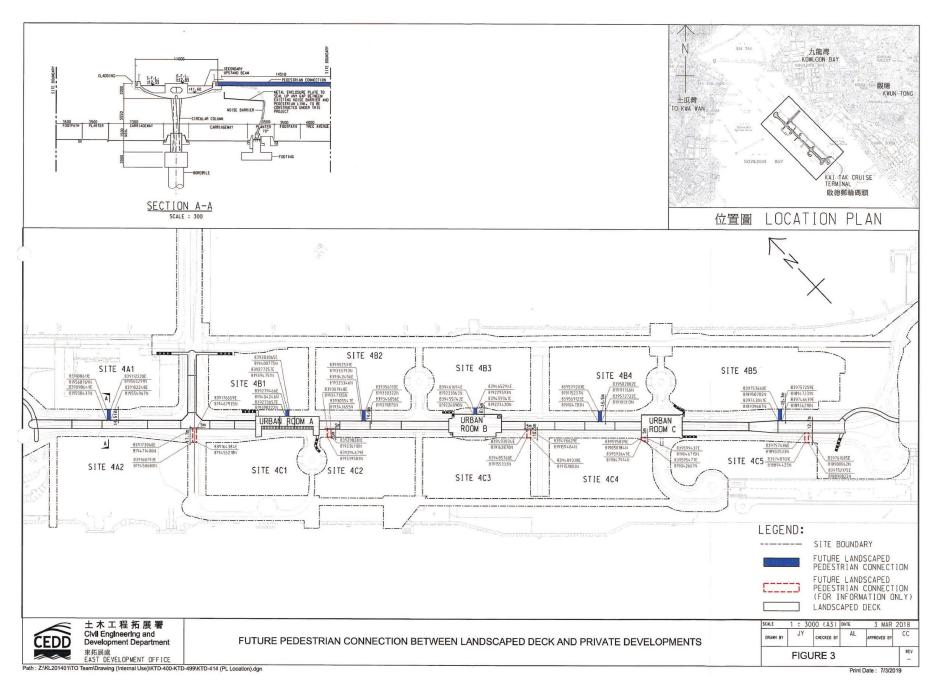


Figure 3 – Future Pedestrian Connection Between Landscaped Deck And Private Developments

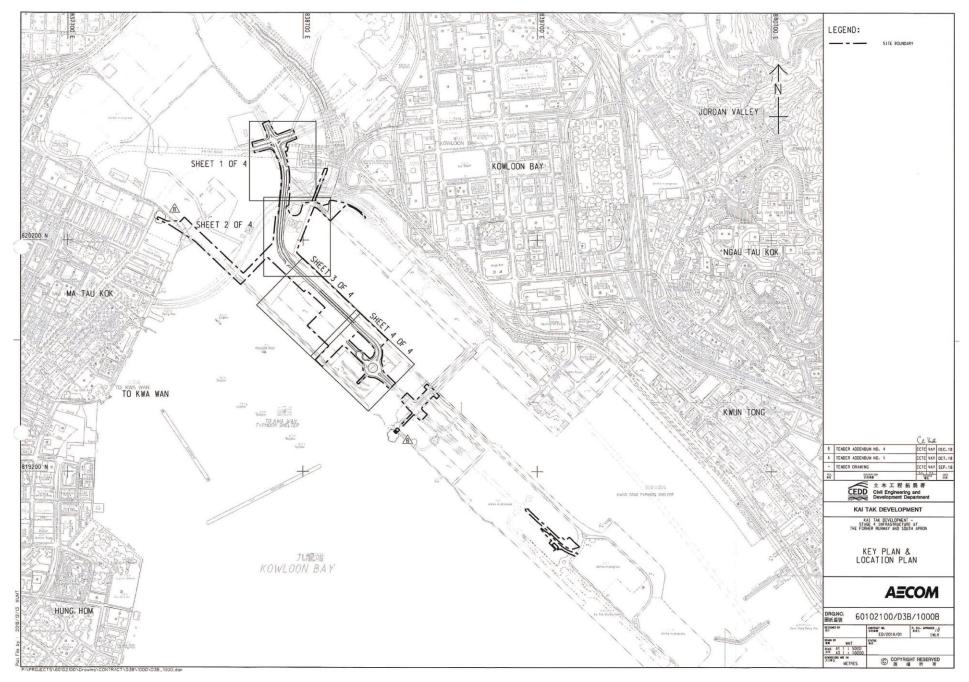


Figure 4 – Site Layout Plan

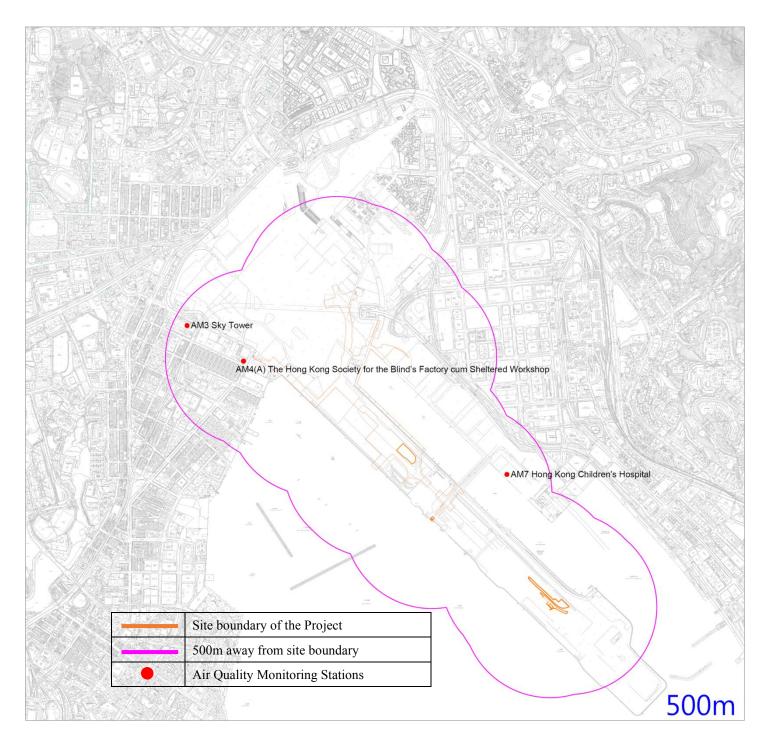


Figure 5 – Air Quality Monitoring Stations

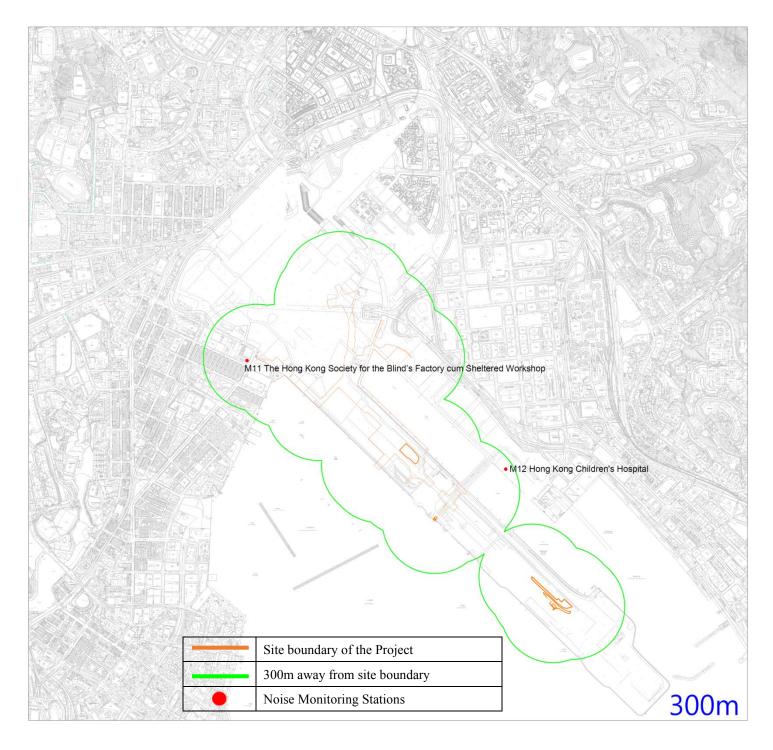
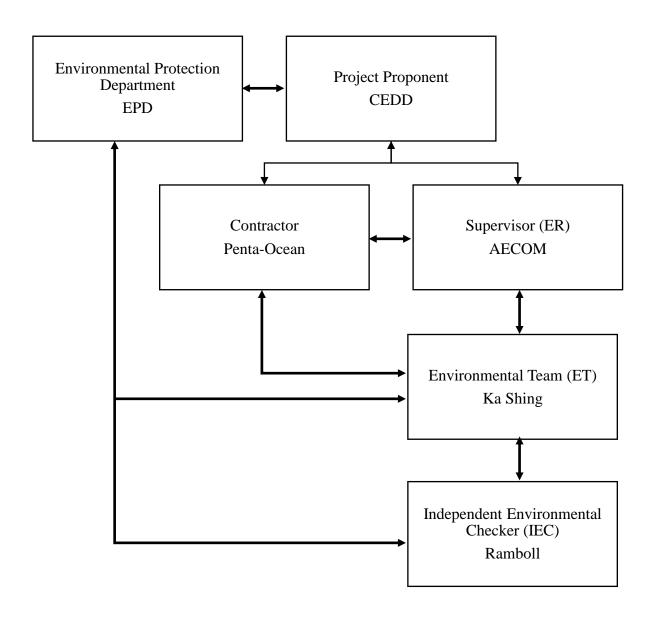


Figure 6 – Noise Monitoring Stations

# Appendix A – Organization Chart of EM&A Team



Link of communication

# **Appendix B – Construction Programme**

	TI-N	D	D · ·	A 1 Ct	A-4. 15' ' !	Di Ct		_	Progress Update as o			T:	T-4-1	
	Task Name	Duration	Remaining Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical %	Free Slack	Time Risk Allowance	s Slack 2019	2020 2021 2022 2023
1	Project Dates	1841 days	1841 days	May 16, 2019	NA	May 16, 2019	May 29, 2024	May 16, 2019	May 29, 2024	Complete	0 daye	(TRA)	0 days	H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2
2	Contract Date	0 days	0 days	May 16, 2019	May 16, 2019	May 16, 2019	May 16, 2019	May 16, 2019	May 16, 2019	<b>0%</b> 0%	<b>0 days</b> 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	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	0 days	Completion
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	
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 Dates (
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
LO	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
l1	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 2E
L2	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
L3	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	Actess Date - Part 3B,4
.4	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 days	0 days	0 days	Access Date - Part 3C,3D,3E,3G,31
15	Access Date - Part 3F  Access Date - Part 3H,7A,7B,8,9 (TA No.1)	0 days	0 days	NA	NA NA	June 3, 2022 August 31, 2021	June 3, 2022	June 3, 2022	June 3, 2022	0%	0 days	0 days	0 days	Access Date - Part 3H,7A,7B,8,9 (TA No.1)
16 17	Access Date - Part 10	0 days 0 days	0 days 0 days	NA NA	NA NA	June 2, 2021	August 31, 2021 June 2, 2021	August 31, 2021 June 2, 2021	August 31, 2021 June 2, 2021	0%	0 days 0 days	0 days 0 days	0 days 0 days	Access Date - Part 10
L7 L8	Access Date - Part 10  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	Access Date - Area WAI
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)
20	Time for Ordering "Section Subject to Excision" - Section 4	0 days	0 days	NA	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 "Section Subject to Excision" - Section 8	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 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
	Time for Gracing Section Subject to Excision Section 5	o days	o days	50., 5, 2015	July 3, 2013	30.7 3, 2023	30.7 3, 2023	34., 3, 2013	50.7 5, 2015	10070	o aays	o days	o days	
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
24	Schedule of Key Dates (CDP1: Item 3[TA No.1])	665 days	665 davs	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 (CDP1: Iten
25	KD1	0 days	0 days	NA NA	NA NA	August 7, 2020 August 7, 2020	August 7, 2020	August 7, 2020	August 7, 2020	0%	0 days	0 days	0 days	▼ KD1
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	
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	
28	KD4	0 days	0 days	NA	NA	January 31, 2022	January 31, 2022	January 31, 2022		0%	0 days	0 days	0 days	
29	KD5	0 days	0 days	NA	NA	September 17, 202	1 September 17, 202	1 September 17, 2021	September 17, 202	1 0%	0 days	0 days	0 days	
30	KD6	0 days	0 days	NA	NA	December 29, 2021	December 29, 2021	December 29, 2021	December 29, 2021	L 0%	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	
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 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 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	Section Com
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	NA NA	May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023	0%	0 days	0 days	0 days	Section Con
39 40	Section Completion Date Section 7 Section Completion Date Section 8	0 days 0 days	0 days 0 days	NA NA	NA NA	May 29, 2024 December 2, 2021	May 29, 2024 December 2, 2021	May 29, 2024 December 2, 2021	May 29, 2024 December 2, 2021	0%		0 days 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 NA	May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023	0%	0 days		0 days	Section Com
	Pre-meeting of ACABAS	153 days	· '	NA	NA NA	November 29, 2019		May 29, 2024	May 29, 2024	0%	1491 d		1491 d	Pre-meeting of ACABAS
14	Design Working Group Meeting	0 days	•	NA	NA		November 29, 2019		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	Task Force on Kai Tak Harbourfront Development Meeting
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	Project Submission	853 days	679.02 days	May 16, 2019	NA	May 16, 2019	September 14, 20		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	August 27, 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%	1661	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	June 4, 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	October 2, 2019	October 23, 2019	May 12, 2020	June 1, 2020	0%		0 days	222.79	Final Review and Acceptance of the First Programme by Project Manager
	Project Manager										days	,	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))
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	0 days	1663	Submit Detailed Programme for Safety Risk (ER Part 7, Cl. 7.3.4)
<i></i>		00,3	2013			231130, 23, 2013		, _3, _5_7	, _5, _5,		days	, .	days	
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	TSubmit Environmental Management Plan (ACC Cl. D20(2))
E0	Submit OA/OC Manual	14 days	14 days	NA	NA	October 25, 2010	November 7, 2010	May 16, 2024	May 29, 2024	0%	1665 4	0 days	1665 d	M Submit QA/QC Manual
59 60	Submit QA/QC Manual Submit BIM Models Deliverables	14 days 103 days	14 days 41.33 days	NA August 19, 2019		October 25, 2019  August 19, 2019	November 7, 2019		May 29, 2024 May 29, 2024	0%	1665 d 1643 d		1643 d	Submit BIM Models Deliverables
				-			November 30, 2019			100%	0 days		0 days	Existing Site Model (Topography)
61	Existing Site Model (Topography)	5 days	0 days	August 19, 2019	August 23, 2019	August 19, 2019	August 23, 2019	August 13, 2019	August 23, 2019	100%	o days		o uays	-   -
	ised Programme- Critical Task			lanual Task	Duration-	only	Baseline Milestone	⇒ Sum	mary	Ext	ternal Tasks		Inactive M	ilestone  Baseline Summary
ED/2	2018/01 with Progress Critical Split Split		St	art-only	Baseline		Milestone	<b>♦</b> Man	ual Summary	Ex	ternal Milest	one 🔷	Inactive Su	ımmary
	ate as of 22-Sep-19 Critical Progress Task Proc			nish-only	Baseline S				ect Summary		active Task		Deadline	

- 1	osk Nama	Duration	Pamainin-	Actual Start	Actual Einich	Dlan Start	22092019_Re		Progress Update as o			Time Pick Total	
	isk Name	Duration	Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical %	Free Slack	Time Risk Total Allowances Slack	2019   2020   2021   2022   2023
_										Complete		(TRA)	H1 H2 H1 H2 H1 H2 H1
	Existing Underground Utilities (UU) Model	5 days	0 days		August 30, 2019	-	August 30, 2019		August 30, 2019		0 days	0 days	Sun September 22 ) Underground Utilities (UU) Model
	3D Digital Survey For Existing Conditions	28 days	4.8 days	September 2, 2019				.9 September 2, 2019			1703 d	1703 d	
	3D Photogrametry Model	46 days	40.02 days	September 16, 201				September 16, 2019			1670.9	1670.9	<mark></mark>
	AIP Model	18 days	1.08 days	September 6, 2019				9 September 6, 2019			1709.9	1709.9	
	Interfacing Contract Model	15 days	_	September 9, 2019				.9 September 9, 2019			1709.9	1709.9	Monthly Updated BIM Model
	Monthly Updated BIM Model	0 days	0 days	NA	NA		October 31, 2019		October 31, 2019		0 days	0 days	4D Model Linked Up with Programme
	4D Model Linked Up with Programme	0 days	1 11/1	NA	NA			October 31, 2019	October 31, 2019		0 days	0 days	Construction Method Simulation (CMS) in 3D Model
	Construction Method Simulation (CMS) in 3D Model	0 days		NA	NA			9 November 30, 2019			0 days	0 days	
	BIM Deliverables Schedule	77 days	77 days	August 16, 2019	NA	August 16, 2019	October 31, 2019		October 31, 2019		0 days	0 days	BIM Deliverables Schedule
	Establish BIM Team	0 days	0 days	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019		0 days	0 days	Establish BIM Telam     BYM 5
	BIM Execution Plan	0 days	0 days	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019	August 16, 2019		0 days	0 days	BIM Execution Plan     BIM Execution Plan
	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		0 days	0 days	BIM Submission Schedule  Bit 350 Ligano
	BIM 360 License	0 days	0 days	August 31, 2019	August 31, 2019	August 31, 2019	August 31, 2019	August 31, 2019	August 31, 2019		0 days	0 days	♦ BIM 360 License
	BIM/Drawing Management Software System	0 days	0 days	August 31, 2019	August 31, 2019		August 31, 2019	August 31, 2019	August 31, 2019		0 days	0 days	→ BIM/Drawing Management Software System
	CDE Setup	0 days	0 days					September 9, 2019			0 days	0 days	CDE Setup
	Clash Report Format	0 days	0 days					September 9, 2019			0 days	0 days	Glash Report Format
	Monthly Report Format	0 days	0 days					September 9, 2019			0 days	0 days	Monthly Report Format
	Quality Assurance Plan for BIM	0 days	0 days					.9 September 30, 2019			0 days	0 days	Quality Assurance Plan for BIM
	BIM Training Plan	0 days	0 days					.9 September 30, 2019			0 days	0 days	BIM Training Plan
	BIM Training Schedule for CIC Training	0 days	0 days			9 September 30, 201	9 September 30, 201	.9 September 30, 2019	September 30, 201	9 100%	0 days	0 days	BIM Training Schedule for CIC Training
	4 Sets of BIM Software, Hardware and Server	0 days	0 days	NA	NA	October 31, 2019	October 31, 2019	October 31, 2019	October 31, 2019	0%	0 days	0 days	4 Sets of BIM Software, Hardware and Server
	Monthly BIM Progress Report	0 days	0 days	NA	NA	October 31, 2019	October 31, 2019	October 31, 2019	October 31, 2019	0%	0 days	0 days	Monthly BIM Progress Report
	Monthly Clash Report	0 days	0 days	NA	NA	October 31, 2019	October 31, 2019	October 31, 2019	October 31, 2019	0%	0 days	0 days	Monthly Clash Report
	BIM Object Libraries	0 days	0 days	NA	NA	October 31, 2019	October 31, 2019	October 31, 2019	October 31, 2019	0%	0 days	0 days	BIM Object Libraries
	Temporary Traffic Management	839 days	682.35 days	May 30, 2019	NA	May 30, 2019	September 14, 20.	May 30, 2019	May 29, 2024	0%	988 days	988 da	
	Submit Traffic Engineering Consultant and TTM Team Leader	14 days	0 days	May 30, 2019	June 12, 2019	May 30, 2019	June 12, 2019	May 30, 2019	June 12, 2019	100%	0 days	0 days 0 days	Submit Traffic Engineering Consultant and TTM Team Leader (PS1.16(3))
	(PS1.16(3))  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, 201	9 May 16, 2024	May 29, 2024		1658 days	0 days 1658 days	Submit Road Closure Implementation Plan (P\$1.14A(2)) within 14d after accept
	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 days	0 days 0 days	Submit EP Mgt System Co-ordinator (PS Cl. 1 18N(2))
	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 days	0 days 0 days	Approve of EP Co-ordinator by Project Manager (PS Cl. 1.18N(2))
	Submit UU detection equipment for Supervisor approval (PS	7 days	0 days	May 30, 2019	June 5, 2019	May 30, 2019	June 5, 2019	May 30, 2019	June 5, 2019	100%	0 days	0 days 0 days	Submit UV detection equipment for Supervisor approval (FS CI. 1 25A(1))
	Cl. 1.25A(1))												
	Submit & obtain approval: site office's location and layout pla (PS Cl. 1.45(11)) (7d submission + 14d approval)	31 days	10 days	May 30, 2019	NA	May 30, 2019	October 2, 2019	May 30, 2019	May 29, 2024		1701 days	0 days 1701 days	\$\ \tag{PS CI. 1.45(11)}
	Submit Site survey record (PS Cl.1.47(7))	34 days	0 days	May 30, 2019	July 2, 2019	May 30, 2019	July 2, 2019	May 30, 2019	July 2, 2019	100%	0 days	0 days 0 days	Submit Site survey record (PS CI.1.47(7))
	Submit & obtain approval: fencing & hoarding plan (PS CI.	5 days	5 days	NA	NA	October 2, 2019	October 6, 2019	November 4, 2019	November 8, 2019	0%	1 day	0.5 days 33 day	Submit & obtain approval: fencing & hoarding plan (PS CI 1.48(10)
	1.48(10) Submit site facilities (PS Cl. 1.50S)	CE dave	O dava	May 20, 2010	August 2, 2010	May 20, 2010	August 2, 2010	May 20, 2010	August 2, 2010	1000/	Odeve	O dava	Submit site facilities (PS CI, 1.50S)
			· ·		August 2, 2019				August 2, 2019				Submit security system (PS Cl. 153A(5))
	Submit security system (PS Cl. 1.53A(5))	36 days	0 days	May 30, 2019	July 4, 2019	May 30, 2019	July 4, 2019	May 30, 2019	July 4, 2019			0 days 0 days	Submit Weather Protection Scheme (PS Cl. 1.87 (1))
	Submit Weather Protection Scheme (PS Cl. 1.87 (1))	12 days	0 days	October 15, 2019	October 26, 2019	October 15, 2019	October 26, 2019	October 15, 2019	October 26, 2019			0 days 0 days	Submit Interface Management Plan (PS Cl. 1.89(2))
	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			0 days 0 days	
	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 days	0 days 0 days	Submit Subcontractor Management Plan (ACC CI, C5(1))
	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 286.88	Submit Temporary Drainage and Sewerage Management Plan (PS Cl. 1.24A(1))
	(PS Cl. 1.24A(1))	.,.		, .,		, , , , ,	1, 2020	, ., .,	, , , , , , , , , , , , , , , , , , ,		days	days	
	Submit Piling Programme (PS Cl. 8.35D)	12 days	12 days	NA	NA	January 2, 2020	January 13, 2020	February 1, 2020	February 12, 2020	0%	18 days		Submit Piling Programme (PS Cl. 8.35D)
	Submit EM&A Manual (ER Part 8, Cl. 8.2)	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 EM&A Manual (ER Part 8, Cl. 8,2)
	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	August 17, 2019	100%	0 days	0 days 0 days	Submit Proposal of selection of suppliers of Plant and Materials (ACC Cl. C11(1)
	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		,	0 days	Submit Contractor's Management Team (ACC Cl. D1(3))
	Permanent Works Design Submission	839 days	705.7 days	May 30, 2019	NA	May 30, 2019	September 14, 20.		November 15, 202		427 days		·
	General Design Submission	192 days	43.98 days	May 30, 2019	NA	May 30, 2019	December 7, 2019		December 10, 2019		3 days	3 days	General Design Submission
	Project Design Plan (Draft)	16 days	0 days	May 30, 2019	June 14, 2019	May 30, 2019	June 14, 2019	May 30, 2019	June 14, 2019		0 days		Project Design Plan (Draft)
	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	June 28, 2019	100%	0 days	0 days	Project Design Plan (Draft) Comment by PM
	Address Comments	66 days	0 days	July 2, 2019	September 5, 2019	July 2, 2019	September 5, 2019	July 2, 2019	September 5, 2019	100%	0 days	1 days 0 days	Addiess Comments
	Project Design Plan (Final)	19 days	15.2 days	September 5, 2019	) NA	September 5, 2019	October 8, 2019	September 5, 2019	December 10, 2019	20%	63.8 days	s 0 days 63.8 da	<u></u>
	Design Memorandum (Draft)	26 days	0 days	June 4, 2019	June 29, 2019	June 4, 2019	June 29, 2019	June 4, 2019	June 29, 2019	100%	0 days	0 days 0 days	Design Memorandum (Draft)
	Address Comments	15 days	0 days	August 1, 2019	August 15, 2019	August 1, 2019	August 15, 2019	August 1, 2019	August 15, 2019	100%	0 days	1 days 0 days	Address Comments
	Design Memorandum (Final)	5 days	5 days	July 23, 2019	NA	July 23, 2019	September 27, 201	9 July 23, 2019	December 10, 2019	0%	74 days	0 days 74 day	Design Memorandum (Final)
	Traffic Impact Assessment(Draft)	25 days	4 days	September 16, 201	l9 NA	September 16, 201	October 10, 2019	September 16, 2019	October 18, 2019		0 days		Traffic Impact Assessment(Draft)
ĺ	Address Comments	28 days	28 days	NA	NA	October 11, 2019		October 19, 2019	November 15, 2019			0.5 days 8 days	Address Comments
	Traffic Impact Assessment(Final)	25 days		NA	NA			November 16, 2019				0.5 days 8 days	Traffic Impact Assessment(Final)
	ACABAS (Draft)	69 days	0 days	May 30, 2019	August 6, 2019	May 30, 2019	August 6, 2019	May 30, 2019			0 days		ACABAS (Draft)
		51 days	6 days	August 7, 2019	NA	August 7, 2019	September 28, 201		December 10, 2019		73 days		Address Committee's comments
	Address Committee's comments						,	- · · · ·	-,		, , ,		
	ACABAS (Final)	25 days	0 days	August 28, 2019	September 21, 201	9 August 28, 2019	September 21, 201	.9 August 28, 2019	September 21, 201	9 100%	0 days	1 days 0 days	ACABAS (Final)

Tas	sk Name	Duration		Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical		Time Risk		2020
			Duration							% Complete	Slack	Allowance (TRA)	Slack 2019 H1 H	2020   2021   2022   2023   12   H1   H2   H1   H2   H1   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	mber 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	VCAB (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	rability 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	Dulability 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
8	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		0 days	
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> —       T <b>↓</b>	bmit & endorse by Gov. Depts and PM
)	• • • • • • • • • • • • • • • • • • • •	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	· · ·	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	Supervise the SI Carry Out on Site  Submit SI Report(Draft) for Comment
3	· · · · · · · · · · · · · · · · · · ·	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	Submit and endorse st keppi til Hary by Flojed. 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	repare 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-	0.46	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	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	Julian Jacobs St. Fin and State of Patriol Heey Gov. Dept
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	Trepare 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 1	222 1		114	Na 1	) l 40 00==	N	L 00 00==	00/	0.1			Noise barrier fields to legislating a ground of
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	,	,			,	, ,	, ,	,		•	,	,	
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	Prepare AIP and ICE dertification (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	Prepare DDA for and ICE certification (Final)
0	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)
3	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)
5	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			0.5 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/Go
59	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)	.,.	,				, ,	, ,			.,-	,		
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 00 93			., 2020				0,0	Juays	Judys	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&M 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	Frepare DDA for E&M 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		226 days	98.71 days	May 30, 2019	NA	May 30, 2019		May 30, 2019	January 10, 2020		0 days		0 days	Road D8 Bridge & Approach Ramps
7		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	-		epare 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	ubnit & endorse by PM and Statutory Authorities/Gov. Dept
0	•	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		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 (Duaft)
	, , , , , , , , , , , , , , , , , , ,	1					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-		-	
	d Programme- Critical Task			anual Task	Duration-o	only	Baseline Milestone	Sum	mary	Exte	ernal Tasks		Inactive Milestone	Baseline Summary
	8/01 with Progress as of 22-Sep-19 Critical Split Split Split Split		Sta	_	Baseline		Milestone		ual Summary	Exte	ernal Milesto	one 🔷	Inactive Summary	
ndate	as OI 22-Sep-19 Critical Progress Task Progr			nish-only	Baseline Si		Summary Progress		ect Summary		ctive Task		Deadline +	

lasi	k Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	vised Programme with F	Late Finish		-00 Т	ime Risk Total	
1	k Name	Duration	Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Fr % SI			2019   2020   2021   2022   2023
	Submit & endorse by PM and Statutory	40 days	40 days	NA	NA	October 17, 2019	November 25, 2019	October 17, 2019	November 25, 2019	Complete 0% 0		TRA) days 0 days	H1 H2
	Authorities/Gov. Dept	,	,								,		
	Prepare DDA for and ICE certification (Final)	15 days	15 days	NA	NA		,	November 26, 2019	· ·		•	days 0 days	Prepare DDA for and ICE certification (Final)
	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	0% 0	days 1	days 0 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	D3 North Approach Ramp	226 days	103.48 days	May 30, 2019	NA	May 30, 2019	January 10, 2020	May 30, 2019	January 10, 2020	0% 0	days	0 days	D3 North Approach Ramp
	Prepare AIP and ICE certification (Draft)	56 days	0 days	May 30, 2019	July 24, 2019	May 30, 2019	July 24, 2019	May 30, 2019	July 24, 2019	100% 0	days 3	days 0 days	Prepare AIP a <mark>nd ICE certification (Draft)</mark>
	Submit & endorse by PM and Statutory	12 days	0 days	July 25, 2019	August 5, 2019	July 25, 2019	August 5, 2019	July 25, 2019	August 5, 2019	100% 0	days 1	days 0 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Authorities/Gov. Dept Prepare AIP and ICE certification (Final)	29 days	15 days	August 6, 2019	NA	August 6, 2019	October 7, 2019	August 6, 2019	October 16, 2019	48% 9	days 0	days 9 days	Prepare AIP and ICE certification (Final)
	Prepare DDA and ICE certification (Draft)	90 days	24 days	July 19, 2019	NA	July 19, 2019		July 19, 2019	October 16, 2019			days 0 days	Prepare DDA and ICE certification (Diaft)
	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	days 3	days 0 days	🛴 Subm <mark>it &amp; endo</mark> rse by PM and Statutory Authorities/Gov. Dept
	Authorities/Gov. Dept Prepare DDA for and ICE certification (Final)	15 days	15 days	NA	NA	November 26, 2010	Docombor 10, 2019	November 26, 2019	Docombor 10, 2019	0% 0	days 1	days 0 days	Prepare DDA for and ICE certification (Final)
	Submit & endorse by PM and Statutory	31 days	31 days	NA	NA			December 11, 2019			days 1		Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Authorities/Gov. Dept	, .	, .			, , ,	, ,				,	,.	
3	D3 South Approach Ramp	226 days	•	May 30, 2019	NA	May 30, 2019	January 10, 2020	May 30, 2019	January 10, 2020		days	0 days	D3 South Approach Ramp
1 5	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			days 0 days	Prepare AIP and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept
'	Submit & endorse by PM and Statutory Authorities/Gov. Dept	46 days	0 days	July 19, 2019	September 2, 2019	July 19, 2019	September 2, 2019	July 19, 2019	September 2, 2019	100% 0	days 1	days 0 days	and state of the second st
5	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	days 0	days 0 days	Prepare AIP and ICE certification (Final)
	Prepare DDA and ICE certification (Draft)	90 days	24 days	July 19, 2019	NA	July 19, 2019	October 16, 2019		October 16, 2019			days 0 days	Prepare DDA and ICE certification (Daft)
	Submit & endorse by PM and Statutory Authorities/Gov. Dept	40 days	40 days	NA	NA	October 17, 2019	November 25, 2019	October 17, 2019	November 25, 2019	0% 0	days 3	days 0 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Prepare DDA for and ICE certification (Final)	15 days	15 days	NA	NA	November 26, 2019	December 10, 2019	November 26, 2019	December 10, 2019	0% 0	days 1	days 0 days	Prep <mark>are</mark> DDA for and ICE certification (Final)
0	Submit & endorse by PM and Statutory	31 days	31 days	NA	NA	December 11, 2019		December 11, 2019				days 0 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Authorities/Gov. Dept	412 do	213.27 days	May 20, 2010	NΑ	May 20, 2010	lub 14 2020	May 20, 2010	Docombox 1, 2022	0%	10 day	1.60	s Road D3 Underpass and Depressed Road
2	Road D3 Underpass and Depressed Road Underpass	412 days 412 days	213.27 days 296 days	May 30, 2019 May 30, 2019	NA NA	May 30, 2019 May 30, 2019	July 14, 2020 July 14, 2020	May 30, 2019 May 30, 2019	December 1, 2020 December 1, 2020		10 days 00 days	140 days 140 days	
3	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		days 3		Rrepare AIP and ICE certification (Draft)
4	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			days 0 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Authorities/Gov. Dept												
	Prepare DDA and ICE certification (Final)	38 days	12 days	August 28, 2019 NA	NA NA	August 28, 2019 October 5, 2019	October 4, 2019	August 28, 2019			days 2		Prepare AIP and ICE certification (Final)  Prepare DDA and ICE certification (Draft)
	Prepare DDA and ICE certification (Draft)  Submit & endorse by PM and Statutory	64 days 90 days	64 days 90 days	NA NA	NA NA		December 7, 2019 March 6, 2020	October 5, 2019 April 26, 2020	December 7, 2019 July 24, 2020		days 3 days 0	days 0 days .5 days 140 days	
7	Authorities/Gov. Dept	50 44,5	50 44,5			2000		7.p 20, 2020	July 2 1, 2020	0,0	aays	110 4475	
8	Prepare DDA for and ICE certification (Final)	40 days	40 days	NA	NA	March 7, 2020	April 15, 2020	July 25, 2020	September 2, 2020	0% 0	days 0	days 140 days	
19	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% 10	00 days 0	days 140 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
0	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	6 days	160 days	s Depressed Road (North and South)
1	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	days 1	days 0 days	Prepare AIP and ICE certification (Draft)
2	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	days 2	days 0 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
13	Authorities/Gov. Dept Prepare AIP and ICE certification (Final)	10 days	10 davs	NA	NA	September 23, 2019	October 2, 2010	April 6, 2020	April 15, 2020	0% 19	96 days 0	days 196 days	S Prapare AIP and ICE certification (Final)
4	Prepare DDA and ICE certification (Draft)	71 days	0 days	May 30, 2019	August 8, 2019	May 30, 2019	August 8, 2019	May 30, 2019	August 8, 2019			days 0 days	Prepare DDA and ICE certification (Draft)
15	Submit & endorse by PM and Statutory	40 days	0 days	August 9, 2019	September 17, 2019		September 17, 2019		September 17, 2019			days 0 days	Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Authorities/Gov. Dept			_					·				
	Prepare DDA for and ICE certification (Final)	11 days	6 days	September 18, 201	9 NA NA			9 September 18, 2019	March 6, 2020	45% 0	days 1	days 160 days	s
	Coloresta O and area by DNA and Chatestan		40 -1						A 11 4 F 2020	00/	0 -1 4		Submit 81 and organization (Authoritika (Cav. Dont
	Submit & endorse by PM and Statutory Authorities/Gov. Dept	40 days	40 days	NA		September 29, 2019	November 7, 2019	March 7, 2020	April 15, 2020	0% 16	50 days 1	days 160 days	s Aubmit & endorse by PM and Statutory Authorities/Gov. Dept
17			·	NA August 13, 2019	NA		July 9, 2020	March 7, 2020  August 13, 2019	April 15, 2020  November 21, 2021		50 days 1	days 160 days 500 days	s Remaining Road Works
06 07 08 09	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification	40 days	·			August 13, 2019	July 9, 2020	August 13, 2019		0% 50		500 days	s Remaining Road Works
7 8 9	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)	40 days <b>332 days</b> 60 days	<b>316.32 days</b> 19 days	<b>August 13, 2019</b> August 13, 2019	<b>NA</b> NA	<b>August 13, 2019</b> August 13, 2019	July 9, 2020 October 11, 2019	<b>August 13, 2019</b> August 13, 2019	November 21, 2021 May 16, 2020	<b>0% 50</b> 68% 0	00 days days 1	<b>500 days</b> day 218 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)
7 8 9	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification	40 days <b>332 days</b> 60 days	<b>316.32 days</b> 19 days	August 13, 2019	NA	August 13, 2019	July 9, 2020 October 11, 2019	<b>August 13, 2019</b> August 13, 2019	November 21, 2021	<b>0% 50</b> 68% 0	00 days days 1	500 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept
7 8 9 0	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification	40 days <b>332 days</b> 60 days 28 days	316.32 days 19 days 28 days	<b>August 13, 2019</b> August 13, 2019	<b>NA</b> NA	<b>August 13, 2019</b> August 13, 2019	July 9, 2020 October 11, 2019 November 8, 2019	August 13, 2019 August 13, 2019 April 30, 2021	November 21, 2021 May 16, 2020	0% 50 68% 0	00 days days 1	500 days day 218 days .5 days 566 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept
7 8 9 0	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept	40 days  332 days 60 days 28 days 14 days	316.32 days 19 days 28 days 14 days	August 13, 2019 August 13, 2019 NA	NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019	July 9, 2020 October 11, 2019 November 8, 2019	August 13, 2019 August 13, 2019 April 30, 2021	November 21, 2021 May 16, 2020 May 27, 2021	0% 50 68% 0 0% 0 0% 48	days 1 days 0 days 0 days 0	500 days day 218 days .5 days 566 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)
7 8 9 0 1	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)	40 days  332 days 60 days 28 days 14 days 90 days	316.32 days 19 days 28 days 14 days	August 13, 2019 August 13, 2019 NA NA NA	NA NA NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021  March 13, 2021	November 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021	0%         50           68%         0           0%         0           0%         48           0%         0	days 1 days 0 days 0 days 1 days 1	500 days day 218 days .5 days 566 days days 566 days day 518 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)
7 8 9 0 1	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov.	40 days  332 days 60 days 28 days 14 days 90 days	316.32 days 19 days 28 days 14 days	August 13, 2019 August 13, 2019 NA NA	NA NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021	November 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021	0%         50           68%         0           0%         0           0%         48           0%         0	days 1 days 0 days 0 days 1 days 1	500 days day 218 days .5 days 566 days days 566 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)
7 8 9 0 1 2 3	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)	40 days  332 days 60 days 28 days 14 days 90 days	316.32 days 19 days 28 days 14 days 90 days 60 days	August 13, 2019 August 13, 2019 NA NA NA	NA NA NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021  March 13, 2021	November 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021	0%         50           68%         0           0%         0           0%         48           0%         0           0%         0           0%         0	days 0 days 0 days 0 days 0 days 0 days 0	500 days day 218 days .5 days 566 days days 566 days day 518 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept
7 3 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)	40 days  332 days 60 days  28 days 14 days 90 days 60 days 14 days	316.32 days 19 days 28 days 14 days 90 days 60 days	August 13, 2019 August 13, 2019 NA NA NA NA NA	NA NA NA NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 March 23, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021 March 13, 2021  June 11, 2021  August 10, 2021	May 16, 2020 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021	0%         50           68%         0           0%         0           0%         48           0%         0           0%         0           0%         0           0%         0	days 0 days 0 days 0 days 1 days 0 days 1 days 0 days 0 days 0	500 days day 218 days 566 days days 566 days day 518 days 518 days days 518 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)
2	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. (Final)  Submit & endorse by PM and Statutory Authorities/Gov.	40 days  332 days 60 days  28 days 14 days 90 days 60 days 14 days	316.32 days 19 days 28 days 14 days 90 days 60 days	August 13, 2019 August 13, 2019 NA NA NA NA	NA NA NA NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021 March 13, 2021  June 11, 2021  August 10, 2021	November 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021	0%         50           68%         0           0%         0           0%         48           0%         0           0%         0           0%         0           0%         0	days 0 days 0 days 0 days 0 days 0 days 0	500 days day 218 days 566 days days 566 days day 518 days 518 days days 518 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)
7 3 3 9 0 1 1 2 2 3 3 4	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)	40 days  332 days 60 days  14 days 90 days 14 days 90 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days	August 13, 2019 August 13, 2019 NA NA NA NA NA	NA NA NA NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 March 23, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021 March 13, 2021 June 11, 2021 August 10, 2021 August 24, 2021	May 16, 2020 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021	0%         50           68%         0           0%         0           0%         48           0%         0           0%         0           0%         0           0%         0           0%         0           0%         5:1	days 0 days 0 days 0 days 1 days 0 days 1 days 0 days 0 days 0	500 days day 218 days .5 days 566 days days 566 days day 518 days .5 days 518 days days 518 days days 518 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept
	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)	40 days  332 days 60 days  28 days 14 days 90 days 14 days 90 days 14 days 90 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days	August 13, 2019 August 13, 2019 NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020 October 12, 2019	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 March 23, 2020 June 21, 2020 December 10, 2019	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021 March 13, 2021 June 11, 2021 August 10, 2021 August 24, 2021  May 17, 2020	May 16, 2020 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021 July 15, 2020	0%         50           68%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 0 days 1	500 days day 218 days 566 days days 566 days day 518 days 518 days 518 days days 518 days days 518 days days 218 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)
2 3 1 5 5 5	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept	40 days  332 days 60 days  28 days 14 days 90 days 14 days 90 days 14 days 90 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days	August 13, 2019 August 13, 2019 NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 March 23, 2020 June 21, 2020 December 10, 2019	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021 March 13, 2021 June 11, 2021 August 10, 2021 August 24, 2021	May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021	0%         50           68%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 0 days 1	500 days day 218 days .5 days 566 days days 566 days day 518 days .5 days 518 days days 518 days days 518 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)
7 3 3 9 0 1 1 2 2 3 3 4 5 7	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)	40 days  332 days 60 days  28 days 14 days 90 days 14 days 90 days 14 days 90 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days 28 days	August 13, 2019 August 13, 2019 NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020 October 12, 2019	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 March 23, 2020 June 21, 2020 December 10, 2019	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021 March 13, 2021 June 11, 2021 August 10, 2021 August 24, 2021  May 17, 2020	May 16, 2020 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021 July 15, 2020	0%         50           68%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 0 days 0 days 0 days 0 days 0 days 0 days 1 days 0 days 0 days 0 days 0	500 days day 218 days 566 days days 566 days day 518 days 518 days 518 days days 518 days days 518 days days 218 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept
7 8 9 0 1 1 2 3 4 5 6 7 8	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  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)	40 days  332 days 60 days  14 days 90 days 14 days 90 days 14 days 90 days 128 days 14 days 15 days 16 days 17 days 18 days 19 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days 60 days 10 days	August 13, 2019 August 13, 2019 NA	NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020 October 12, 2019 December 11, 2019 January 8, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 June 21, 2020 December 10, 2019 January 7, 2020 January 17, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021  March 13, 2021  June 11, 2021  August 10, 2021  August 24, 2021  May 17, 2020  April 24, 2021  May 22, 2021	Movember 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021 July 15, 2020 May 21, 2021 May 31, 2021	0%         50           68%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 0	500 days day 218 days .5 days 566 days day 518 days .5 days 518 days day 518 days days 518 days day 218 days .5 days 500 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  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)
07	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept	40 days  332 days 60 days  14 days 90 days 14 days 90 days 14 days 90 days 128 days 14 days 15 days 16 days 17 days 18 days 19 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days 14 days 90 days 10 days	August 13, 2019 August 13, 2019 NA	NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020 October 12, 2019 December 11, 2019 January 8, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 March 23, 2020 June 21, 2020 December 10, 2019 January 7, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021  March 13, 2021  June 11, 2021  August 10, 2021  August 24, 2021  May 17, 2020  April 24, 2021	May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021 July 15, 2020 May 21, 2021	0%         50           68%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 0 days 0 days 0 days 0 days 0 days 0 days 1 days 0 days 0 days 0 days 0	500 days day 218 days .5 days 566 days day 518 days .5 days 518 days day 518 days days 518 days day 218 days .5 days 500 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  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)
077	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  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 (Final)  Prepare DDA for Road L12d and ICE certification (Draft)	40 days  332 days 60 days  14 days 90 days  14 days 90 days 14 days 19 days 10 days 10 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days 10 days 90 days	August 13, 2019 August 13, 2019 NA	NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020 October 12, 2019 December 11, 2019 January 8, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 June 21, 2020 December 10, 2019 January 7, 2020 January 17, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021  March 13, 2021  June 11, 2021  August 10, 2021  August 24, 2021  May 17, 2020  April 24, 2021  May 22, 2021	Movember 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021 July 15, 2020 May 21, 2021 May 31, 2021	0%         50           68%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 0 days 0 days 0 days 1 days 0 days 0 days 0 days 0 days 0 days 0 days 1	500 days day 218 days .5 days 566 days day 518 days .5 days 518 days day 518 days days 518 days day 218 days .5 days 500 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  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 AIP for Road L12d and ICE certification (Final)
7 8 8 9 0 1 2 3 4 5 6 7 8 9	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  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 (Draft)	40 days  332 days 60 days 28 days 14 days 90 days 60 days 14 days 90 days 60 days 10 days 10 days 90 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days 10 days 28 days 10 days 60 days	August 13, 2019 August 13, 2019 NA	NA N	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020 October 12, 2019 December 11, 2019 January 8, 2020 January 18, 2020 April 17, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 June 21, 2020 December 10, 2019 January 7, 2020 January 17, 2020 April 16, 2020 June 15, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021  March 13, 2021  June 11, 2021  August 10, 2021  August 24, 2021  May 17, 2020  April 24, 2021  May 22, 2021  June 1, 2021  August 30, 2021	Movember 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021 July 15, 2020 May 21, 2021 May 31, 2021 August 29, 2021 October 28, 2021	0%         50           68%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 0 days 1 days 0 days 0 days 0	500 days day 218 days .5 days 566 days day 518 days .5 days 518 days day 518 days days 518 days days 518 days days 518 days day 218 days day 218 days .5 days 500 days day 500 days .5 days 500 days .5 days 500 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)  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 (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept
077	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  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 (Final)  Prepare DDA for Road L12d and ICE certification (Draft)	40 days  332 days 60 days 28 days 14 days 90 days 60 days 14 days 90 days 60 days 10 days 10 days 90 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days 10 days 28 days 10 days 60 days	August 13, 2019 August 13, 2019 NA	NA	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020 October 12, 2019 December 11, 2019 January 8, 2020 January 18, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 March 23, 2020 June 21, 2020 December 10, 2019 January 7, 2020 January 17, 2020 April 16, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021  March 13, 2021  June 11, 2021  August 10, 2021  August 24, 2021  May 17, 2020  April 24, 2021  May 22, 2021  June 1, 2021  August 30, 2021	Movember 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021 July 15, 2020 May 21, 2021 May 31, 2021 August 29, 2021	0%         50           68%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 0 days 1 days 0 days 0 days 0	500 days day 218 days .5 days 566 days day 518 days .5 days 518 days .5 days 518 days day 518 days days 518 days days 518 days days 518 days day 218 days .5 days 500 days day 500 days day 500 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)  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 (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept
7 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  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)  Prepare DDA for Road L12d and ICE certification (Final)	40 days  332 days 60 days 28 days 14 days 90 days 60 days 14 days 90 days 10 days 10 days 10 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days 60 days 10 days 10 days 10 days	August 13, 2019 August 13, 2019 NA	NA N	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020 October 12, 2019 December 11, 2019 January 8, 2020 January 18, 2020 April 17, 2020 June 16, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 June 21, 2020 December 10, 2019 January 7, 2020 January 17, 2020 April 16, 2020 June 15, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021 March 13, 2021  June 11, 2021  August 24, 2021  August 24, 2021  May 17, 2020  April 24, 2021  June 1, 2021  August 30, 2021  October 29, 2021	Movember 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021 July 15, 2020 May 21, 2021 May 31, 2021 August 29, 2021 October 28, 2021 November 7, 2021	0%         50           68%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 0 days 1 days 0 days 0 days 0	500 days day 218 days .5 days 566 days day 518 days .5 days 518 days day 518 days days 518 days days 518 days days 518 days day 518 days day 218 days .5 days 500 days day 500 days day 500 days day 500 days .5 days 500 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)  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 (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept
devised D/2018	Authorities/Gov. Dept  Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  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 (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for Road L12d and ICE certification (Draft)	40 days  332 days 60 days 28 days 14 days 90 days 60 days 14 days 90 days 10 days 10 days 10 days	316.32 days 19 days 28 days 14 days 90 days 60 days 14 days 90 days 60 days 10 days 10 days 10 days	August 13, 2019 August 13, 2019 NA	NA N	August 13, 2019 August 13, 2019 October 12, 2019 November 9, 2019 October 12, 2019 January 10, 2020 March 10, 2020 March 24, 2020 October 12, 2019 December 11, 2019 January 8, 2020 January 18, 2020 April 17, 2020 June 16, 2020	July 9, 2020 October 11, 2019 November 8, 2019 November 22, 2019 January 9, 2020 March 9, 2020 June 21, 2020 December 10, 2019 January 7, 2020 January 17, 2020 April 16, 2020 June 15, 2020 June 25, 2020	August 13, 2019 August 13, 2019 April 30, 2021  May 28, 2021 March 13, 2021  June 11, 2021  August 10, 2021  August 24, 2021  May 17, 2020  April 24, 2021  June 1, 2021  August 30, 2021  October 29, 2021	Movember 21, 2021 May 16, 2020 May 27, 2021 June 10, 2021 June 10, 2021 August 9, 2021 August 23, 2021 November 21, 2021 July 15, 2020 May 21, 2021 May 31, 2021 August 29, 2021 October 28, 2021 November 7, 2021	0% 50 68% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	days 0	500 days day 218 days .5 days 566 days day 518 days day 518 days days 518 days days 518 days days 518 days days 518 days day 500 days day 500 days day 500 days day 500 days .5 days 500 days	Remaining Road Works  Prepare AIP for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for At-grade Road D3 and ICE certification (Final)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare DDA for At-grade Road D3 and ICE certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Submit & endorse by PM and Statutory Authorities/Gov. Dept  Prepare AIP for Road L12d and ICE certification (Draft)  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 (Draft)  Submit & endorse by PM and Statutory Authorities/Gov. Dept

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Ta	sk Name	Duration		Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Free	Time Risk		10	1.	222	1	2027		000-				
			Duration							% Slack Complete	Allowance (TRA)	es Slack   20	19 Н1 Н2		020 H1	H2	2021 H1	H2	2022 H1	l Ha	2023 H1	Т	2024 H2 H1
22	Submit & endorse by PM and Statutory Authorities/Gov.	14 days	14 days	NA	NA	June 26, 2020	July 9, 2020	November 8, 2021	November 21, 2021		s 0 days	500 days	Sun Septem	nber 22		Submit &	endorse	y PM and	Statutory	Authoriti	es/Gov. Dep		
23	Dept AIP for Roadworks - Roadworks other than at-grade Road D3 and Road L12d (Draft)	60 days	60 days	NA	NA	December 11, 2019	February 8, 2020	July 16, 2020	September 13, 2020	0 0% 0 days	1 day	218 days			AIP for R	oadworks	- Roadwo	rks other	than at-gr	ade Road	D3 and Roa	d L12d (D	raft)
24	AIP for Roadworks - Roadworks other than at-grade Road	38 days	38 days	NA	NA	February 9, 2020	March 17, 2020	August 24, 2021	September 30, 2022	1 0% 52 days	0.5 days	562 days			AIF for	Roadwor	ks - Road	works oth	er than at-	grade Ro	d D3 and R	oad L12d	(Final)
25		90 days	90 days	NA	NA	February 9, 2020	May 8, 2020	July 3, 2021	September 30, 2022	0 days	1 day	510 days			pp,	A for Road	lworks - F	oadworks	other tha	n at-grad	Road D3 a	nd Road L	12d (Draft)
26	Road D3 and Road L12d (Draft)  DDA for Roadworks - Roadworks other than at-grade	52 days	52 days	NA	NA	May 9, 2020	June 29, 2020	October 1, 2021	November 21, 2021	0% 510 day	s 0.5 days	510 days				DDA for R	oadworks	- Roadwe	rks other	than at-gr	ade Road D	3 and Roa	nd L12d (Fina
27	Road D3 and Road L12d (Final)  Seawater & DCS Intake Box Culverts	253 days	199.53 days	August 13, 2019	NA	August 13, 2019	April 21, 2020	August 13, 2019	April 21, 2020	0% 0 days		0 days				water & D			rts				
28	Prepare AIP and ICE certification (Draft)	60 days	19 days	August 13, 2019	NA	August 13, 2019	October 11, 2019	August 13, 2019	October 11, 2019	68% 0 days	3 days	0 days	<b>——</b>	Prepa	re AIP and	ICE certifi	cation (D	a <mark>ft)</mark>					
9	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	October 12, 2019	December 10, 2019	October 12, 2019	December 10, 2019	0% 0 days	3 days	0 days		S.	bmit & en	dorse by P	M and St	at <mark>utory A</mark>	ithorities/	Gov. Dept			
0	Prepare AIP and ICE certification (Final)	15 days	15 days	NA	NA	December 11, 2019	December 25, 2019	December 11, 2019	December 25, 2019	0% 0 days	1 days	0 days		T P	repare AIP	and ICE c	ertificatio	n (Final)					
L	Prepare DDA and ICE certification (Draft)	135 days	94 days	August 13, 2019	NA	August 13, 2019	December 25, 2019	August 13, 2019	December 25, 2019	30% 0 days	1 days	0 days	<b>—</b>	P	repare DD								
2	Submit & endorse by PM and Statutory Authorities/Gov.	66 days	66 days	NA	NA	December 26, 2019	February 29, 2020	December 26, 2019	February 29, 2020	0% 0 days	3 days	0 days			Submit	& endorse	by PM a	nd Statute	ry Author	ities/Gov.	Dept		
2	Dept Prepare DDA for and ICE certification (Final)	14 days	14 days	NA	NA	March 1, 2020	March 14, 2020	March 1, 2020	March 14, 2020	0% 0 days	0 days	0 days			Prepare	DDA for	and ICE o	ertificatio	(Final)				
3 4	Submit & endorse by PM and Statutory Authorities/Gov.		38 days	NA	NA	March 15, 2020	April 21, 2020	March 15, 2020	April 21, 2020	0% 0 days	2 days	0 days				nit & endo				horities/G	ov. Dept		
4	Dept Sabrine & endorse by 1 W and Statutory Authorities/ Gov.	30 days	30 days	IVA	IVA	Water 13, 2020	April 21, 2020	Widi Cii 13, 2020	April 21, 2020	070 Guays	2 days	o days						1 1 1 1	ار ادا	1 1 1			
5	Rising Main	215 days	215 days	NA	NA	December 8, 2019	July 9, 2020	December 8, 2019	July 9, 2020	0% 0 days		0 days				Rising Ma	ain						
5	Prepare AIP and ICE certification (Draft)	60 days	60 days	NA	NA	December 8, 2019	February 5, 2020	December 8, 2019	February 5, 2020	0% 0 days	3 days	0 days				IP and IC		'	1				
7	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	February 6, 2020	April 5, 2020	February 21, 2020	April 20, 2020	0% 0 days	0.5 days	15 days			Subm	it & endo	rse by PM	and Stati	tory Auth	orities/Go	v. Dept		
	Dept	20 days	20 dave	N/A	NI A	Ameil C 2020	Amril 25, 2020	Amril 24, 2020	May 10, 2020	00/ 15 dove	O dava	1 F. alous			W Dron	are AIP ar	o ICE cor	itication	Final)				
3	Prepare AIP and ICE certification (Final)	20 days	20 days	NA	NA	April 6, 2020	April 25, 2020	April 21, 2020	May 10, 2020		0 days	15 days				DDA and							
)	Prepare DDA and ICE certification (Draft)	90 days	90 days	NA	NA	December 8, 2019	March 6, 2020	December 8, 2019	March 6, 2020	0% 0 days	4 days	0 days				mit & end				haritias /	ov Dent		
)	Submit & endorse by PM and Statutory Authorities/Gov.  Dept	55 days	55 days	NA	NA	March 7, 2020	April 30, 2020	March 7, 2020	April 30, 2020	0% 0 days	3 days	0 days				int & end	orse by r	iland Sta		iloiities/ c	ov. Dept		
l l	Prepare DDA and ICE certification (Final)	10 days	10 days	NA	NA	May 1, 2020	May 10, 2020	May 1, 2020	May 10, 2020	0% 0 days	0 days	0 days			<b>P</b> re	pare DDA	and ICE c	rtificatio	(Final)				
2	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	May 11, 2020	July 9, 2020	May 11, 2020	July 9, 2020	0% 0 days	3 days	0 days				Submit &	endorse	y PM and	Statutory	Authoriti	es/Gov. Dep	ot	
	Dept																			_   .			
	Stormwater and Sewage Drainage Works	442 days	442 days	NA	NA	December 8, 2019	February 21, 2021	March 18, 2020	June 2, 2021	0% 84 days		101 days			_		11 11 1 11		1 1 1 1 1 -	Drainage	Works		
١	Prepare AIP for Bidge D3 and ICE certification (Draft)	60 days	60 days	NA	NA	December 8, 2019	February 5, 2020	March 18, 2020	May 16, 2020	0% 0 days	1 day	101 days			Prepare A	IP for Bid	ge D3 ani	I ICE certi	ication (D	raft)			
	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	February 6, 2020	April 5, 2020	August 17, 2020	October 15, 2020	0% 0 days	0.5 days	193 days			Subm	it & endo	rse by PM	and Stati	tory Auth	orities/Go	v. Dept		
5	Dept Prepare AIP for Bidge D3 and ICE certification (Final)	10 days	10 days	NA	NA	April 6, 2020	April 15, 2020	October 16, 2020	October 25, 2020	0% 0 days	0 days	193 days			T Prep	are AIP for	r Bidge Di	and ICE	ertificatio	n (Final)			
7	Prepare DDA for Bidge D3 and ICE certification (Draft)	90 days	90 days	NA	NA	April 16, 2020	July 14, 2020	October 26, 2020	January 23, 2021	0% 0 days	1 day	193 days			+	Prepare D	DA for Bi	dge D3 ar	d ICE cert	ification (I	Oraft)		
8	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	July 15, 2020	September 12, 202	0 January 24, 2021	March 24, 2021	0% 0 days	0.5 days	193 days				Subm	it & endo	rse by PM	and Statu	tory Auth	orities/Gov.	Dept	
)	Dept Prepare DDA for Bidge D3 and ICE certification (Final)	10 days	10 days	NA	NA	September 13, 2020	September 22, 202	0 March 25, 2021	April 3, 2021	0% 0 days	0 days	193 days				Prepa	are DDA	or Bidge l	3 and ICE	certificat	on (Final)		
)	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	September 23, 202	November 21, 2020	April 4, 2021	June 2, 2021	0% 176 day	s 0 days	193 days				S	ubmit & c	ndorse by	PM and S	tatutory /	uthorities/	Gov. Dept	
1	Prepare AIP for Underpass, Depressed Road and ICE	60 days	60 days	NA	NA	February 6, 2020	April 5, 2020	May 17, 2020	July 15, 2020	0% 0 days	1 day	101 days			Prepa	re AIP for	Underpa	s Depres	ed Road a	and ICE ce	tification ([	Oraft)	
2	certification (Draft)  Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	April 6, 2020	June 4, 2020	August 17, 2020	October 15, 2020	0% 0 days	0.5 days	133 days			X Su	ıbmit & er	ndorse by	PM and \$	tatutory A	uthorities	/Gov. Dept		
3	Dept Prepare AIP for Underpass, Depressed Road and ICE certification (Final)	10 days	10 days	NA	NA	June 5, 2020	June 14, 2020	October 16, 2020	October 25, 2020	0% 0 days	0 days	133 days			<b>₩</b> P	repare AIF	for Und	rpass, De	oressed Ro	oad and IC	Ecertification	on (Final)	
4	Prepare DDA for Underpass, Depressed Road and ICE	90 days	90 days	NA	NA	June 15, 2020	September 12, 202	0 October 26, 2020	January 23, 2021	0% 0 days	1 day	133 days				Prepa	re DDA fo	r Underpa	ss, Depre	ssed Road	and ICE cer	tification	(Draft)
5	certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	September 13, 202	November 11, 2020	January 24, 2021	March 24, 2021	0% 0 days	0.5 days	133 days				Su	ıbmit & e	ndorse by	PM and S	tatutory A	uthorities/G	Gov. Dept	
6		10 days	10 days	NA	NA	November 12, 2020	November 21, 2020	March 25, 2021	April 3, 2021	0% 0 days	0 days	133 days				P	repare DE	A for Unc	erpass, De	epressed R	oad and ICE	E certificat	ion (Final)
7	certification (Final) Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	November 22, 2020	January 20, 2021	April 4, 2021	June 2, 2021	0% 116 day	s 0 days	133 days					Submit	8. endors	by PM a	nd Statuto	ry Authoriti	ies/Gov. D	ept
8	Dept AIP for Water Works - Road L12d (Draft)	60 days	60 days	NA	NA	April 6, 2020	June 4, 2020	July 16, 2020	September 13, 2020	0 0% 0 days	1 day	101 days			AI	P for Wat	er Works	Road L1	d (Draft)				
)	AIP for Water Works - Road L12d (Final)	38 days	38 days	NA	NA	June 5, 2020	July 12, 2020	March 5, 2021	April 11, 2021	0% 52 days	0.5 days	273 days				AIP for W				·			
)	DDA for Water Works - Road L12d (Draft)	90 days	90 days	NA	NA	June 5, 2020	September 2, 2020	January 12, 2021	April 11, 2021	0% 0 days	1 day	221 days			Ĭ.				ad LL2d (	.   .			
	DDA for Water Works - Road L12d (Final)	52 days	52 days	NA	NA	September 3, 2020	October 24, 2020	April 12, 2021	June 2, 2021	0% 204 day	s 1 day	221 days							Road L12				
	AIP for Water Works - Waterfront Promenade and at	60 days	60 days	NA	NA	June 5, 2020	August 3, 2020	September 14, 2020	November 12, 2020	0% 0 days	1 day	101 days				AIP for \	Water Wo	rks - Wate	rfront Pro	menade a	nd at grade	Open Spa	ice (Draft)
;		38 days	38 days	NA	NA	August 4, 2020	September 10, 202	0 March 5, 2021	April 11, 2021	0% 52 days	0.5 days	213 days				AIP fo	r Water V	vorks - W	terfront F	Promenad	and at gra	de Open S	pace (Final
	grade Open Space (Final)  DDA for Water Works - Waterfront Promenade and at grade Open Space (Draft)	90 days	90 days	NA	NA	August 4, 2020	November 1, 2020	January 12, 2021	April 11, 2021	0% 0 days	1 day	161 days				DD	A for Wa	ter Works	- Waterfro	ont Prome	nade and at	t grade Op	en Space (
5		52 days	52 days	NA	NA	November 2, 2020	December 23, 2020	April 12, 2021	June 2, 2021	0% 144 day	s 1 day	161 days					DDA for	Water Wo	rks - Wate	rfront Pro	menade and	d at grade	Open Spac
5	AIP for Water Works - Remaining water works (Draft)	60 days	60 days	NA	NA	August 4, 2020	October 2, 2020	November 13, 2020	January 11, 2021	0% 0 days	1 day	101 days				AIP (	or Water	Works - R	emaining	water wo	ks (Draft)		
7	AIP for Water Works - Remaining water works (Final)	38 days	38 days	NA	NA	October 3, 2020	November 9, 2020	March 5, 2021	April 11, 2021	0% 52 days	0.5 days	153 days				AI	P for Wat	er Works	Remainir	ng water w	orks (Final)		
. Do.:	d Programme- Critical Task			anual Task	Du moti	only	Baseline Milestone	<u>د</u>	many	External Tasks		Inc.	ve Milestone		Dacalia -	Summan, II							
	d Programme- Critical Task L8/01 with Progress Critical Split Split		St		Duration- Baseline	omy	Milestone		mary ual Summary	External Tasks			ve Summary		Daseline	Summary 🛌	_	→					
	a ac of 22 Cap 10			nish-only		C-II4	whicstorie				conc w		· ·										
	Critical Progress Task Progr	255			Baseline S	Split	<ul> <li>Summary Progress</li> </ul>	Proje	ect Summary	Inactive Task		Dead	ine 🖖										

∣Task	Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical F	ree	Time Risk	TOtal												
			Duration								Slack	Allowances (TRA)		)19 H1 H2	2020 ⊔1	u	202	21 ⊔1	шэ	2022	11	ШЭ	2023	H2	
	DDA for Water Works - Remaining water works (Draft)	90 days	90 days	NA	NA	October 3, 2020	December 31, 2020	January 12, 2021	April 11, 2021				101 days	Sun September 22			DI	Afor	Vater W	rks - Re	mainin	ng water	works (Dra		
	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% 8	4 days	1 day	101 days					DDAF	r Water	Works ·	Remai	ining wat	ter works (	Final)	
	Water Works	442 days	442 days	NA	NA	October 17, 2019	December 31, 202	0 May 1, 2020	July 16, 2021	0% 1	.97 days		197 days		,		w	/ater W	rks						
	Prepare AIP for Bridge D3 and ICE certification (Draft)	60 days	60 days	NA	NA	October 17, 2019	December 15, 2019	9 May 1, 2020	June 29, 2020	0% 0	days	1 day	197 days		repare A	IP for B	ridge D3	and IC	E certific	ation (D	raft)				
	Submit & endorse by PM and Statutory Authorities/Gov.	28 days	28 days	NA	NA	December 16, 2019	January 12, 2020	October 28, 2020	November 24, 2020	0% 0	days	0.5 days	317 days		Submit	8. endo	se by Pi	M and S	tatutory	Authori	ties/Go	ov. Dept			
	Dept 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	days	0 days	317 days		Prepar	AIP fo	r Bridge	D3 and	CE certi	fication	(Final)				
-	, ,	·	90 days	NA	NA	January 27, 2020	April 25, 2020	December 9, 2020					317 days						D3 and I		.				
	Prepare DDA for Bridge D3 and ICE certification (Draft)	90 days	90 uays			• •		,		0%	days	1 uay	517 uays												
	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	days	0.5 days	317 days			Subm	it & end	orse by	PM and	Statuto	ry Auth	orities/G	iov. Dept		
	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	days	0 days	317 days			Prep	re DDA	for Drie	ige D3 a	nd ICE c	ertifica	ition (Fin	al)		
	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% 2	.68 days	0 days	317 days			S	ubmit &	endors	e by PM	and Sta	tutory	Authoriti	es/Gov. D	pt	
	Dept Prepare AIP for Underpass, Depressed Road and ICE	60 days	60 days	NA	NA	December 16, 2019	February 13, 2020	June 30, 2020	August 28, 2020	0% 0	days	1 day	197 days		Prepa	re AIP f	or Unde	pass, D	pressed	Road a	nd ICE	certificat	ion (Draft)		
	certification (Draft) 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	days	0.5 days	229 days		S	bmit &	endorse	by PM	and Stat	utory A	uthoriti	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		days		, 229 days			renare 4	IP for U	nderna	Denre	ssed Ra	ad and	ICF certi	fication (Fi	nal)	
	certification (Final)	,	,					,	,		uays				.       1								-		•
	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	days	1 day	229 days			Pre	are DD/	4 for Ur	derpass,	Depress	sed Roa	ad and IC	E certificat	llon (Draf	t)
	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	July 23, 2020	September 20, 202	0 March 9, 2021	May 7, 2021	0% 0	days	0.5 days	229 days		1		Submit 8	કે endoા	se by PN	and Sta	atutory	/ Authori	ties/Gov. L	ept	
	Prepare DDA for Underpass, Depressed Road and ICE	10 days	10 days	NA	NA	September 21, 202	September 30, 202	0 May 8, 2021	May 17, 2021	0% 0	days	0 days	229 days			🛊	Prepare	DDA	Under	ass, De	pressed	d Road ar	nd ICE certi	fication (	Fina
	certification (Final) Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	October 1, 2020	November 29, 202	0 May 18, 2021	July 16, 2021	0% 1	.80 days	0 days	229 days		1		Sub	mit & e	dorse b	y PM an	d Statu	itory Aut	horities/G	v. Dept	
	Dept  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	days	1 day	197 days		A A	P for W	ater Wo	rks - Ro	d L12d	(Draft)					
	AIP for Water Works - Road L12d (Final)	38 days	38 days	NA	NA	April 14, 2020	May 21, 2020	April 18, 2021	· ·		2 days	•	369 days			AIP for	Water W	/orks	oad L12	d (Final	)				
	DDA for Water Works - Road L12d (Draft)	90 days	90 days	NA	NA	April 14, 2020	July 12, 2020	February 25, 2021	May 25, 2021	0% 0	days	1 day	317 days			шш			cs - Roac		П				
	DDA for Water Works - Road L12d (Final)	52 days	52 days	NA	NA	July 13, 2020	September 2, 2020				68 days		317 days		.				orks - R		`	*		<i>(</i>	٠ د
	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	days	1 day	197 days			AIP TO	r water	works	waterir	ont Pror	menade	e and at (	grade Oper	1 Space (L	<i>r</i> ar
	AIP for Water Works - Waterfront Promenade and at grade Open Space (Final)	38 days	38 days	NA	NA	June 13, 2020	July 20, 2020	April 18, 2021	May 25, 2021	0% 5	2 days	0.5 days	309 days			AIP	for Wate	er Work	s - Wate	front Pr	romena	ade and a	it grade O	en Space	(Fi
	- , , ,	90 days	90 days	NA	NA	June 13, 2020	September 10, 202	0 February 25, 2021	May 25, 2021	0%	days	1 day	257 days			·	DA for	Water V	Vorks - V	/aterfro	nt Pror	menade a	ınd at grad	le Open S	pac
	DDA for Water Works - Waterfront Promenade and at	52 days	52 days	NA	NA	September 11, 202	November 1, 2020	May 26, 2021	July 16, 2021	0% 2	.08 days	1 day	257 days			±	DDA 1	or Wat	r Works	- Water	front P	Promenac	de and at g	rade Ope	n Sp
	grade Open Space (Final)  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	days	1 day	197 days			AI	for Wa	ter Wo	ks - Ren	aining	water w	vorks (Dr	aft)		
	AIP for Water Works - Remaining water works (Final)	38 days	38 days	NA	NA	August 12, 2020	September 18, 202	0 April 18, 2021	May 25, 2021	0% 5	2 days	0.5 days	249 days				AIP for N	Water M	orks - R	mainin	g water	r works (	Final)		
	DDA for Water Works - Remaining water works (Draft)	·	90 days	NA	NA		, , , , , , , , , , , , , , , , , , ,		May 25, 2021				197 days			$\prod \!\!\!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $							rks (Draft)		
		90 days				August 12, 2020		February 25, 2021			days	•													
	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% 1	.48 days	1 day	197 days				The state of	DA for \	Vater W	rks - Re	emainin	ng water	works (Fina	al)	
	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% 3	40 days		483 days				Pumpi	ing Stat	ions, Bo	Culvert	ts and I	intake Sti	ructures		
	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	days	1 day	0 days	Prepare	IP for S	ructure	and ICE	certific	ation (D	aft)					
	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	5 days	July 30, 2019	NA	July 30, 2019	September 27, 201	.9 July 30, 2019	September 15, 2021	. 92% 0	days	0.5 days	719 days	Subn	iit & end	orse by	PM and	Statuto	y Autho	rities/G	ov. Dep	ot			
	Dept Prepare AIP for Structures and ICE certification (Final)	14 days	14 days	NA	NA	September 28, 201	October 11, 2019	September 16, 2021	September 29, 2021	0% 1	.8 days	0 davs	719 days	Pres	are AIP f	or Struc	tures an	d ICE ce	tificatio	n (Final	,				
			,												pare DD/										
	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	days	1 day	214 days								1				
	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	October 30, 2019	December 28, 2019	9 September 30, 2021	November 28, 2021	0% 0	days	0.5 days	701 days		Submit &	2 endor	e by PIV	l and lit	atutory /	uthoriti	ies/Gov	v. Dept			
	Prepare DDA for Structures and ICE certification (Final)	14 days	14 days	NA	NA	December 29, 2019	January 11, 2020	November 29, 2021	December 12, 2021	0% 0	days	0 days	701 days		Prepare	DDA fo	r Structi	ires and	ICE cert	fication	(Final)	)			
	Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	January 12, 2020	March 11, 2020	December 13, 2021	February 10, 2022	0% 5	58 days	0 days	701 days		Sub	nit & e	idorse b	y PM 🔐	d Statut	pry Auti	horities	s/Gov. De	ept		
	Dept Prepare AIP for E&M and ICE certification (Draft)	60 days	5 days	July 30, 2019	NA	July 30, 2019	September 27, 201	.9 July 30, 2019	May 30, 2020	0% 0	days	1 day	246 days	Prep	re AIP fo	r E&M a	nd ICE	ertifica	tion (Dra	ft)					
	Submit & endorse by PM and Statutory Authorities/Gov. Dept		60 days	NA	NA		November 26, 201		- · · · · · · · · · · · · · · · · · · ·				577 days	s	µbmit & ։	ndorse	by PM a	nd Stat	utory Au	thoritie	s/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	days	0 days	577 days		repare A	P for E	M and	ICE cert	ification	(Final)					
	Prepare DDA for E&M and ICE certification (Draft)	90 days	90 days	NA	NA	December 7, 2019	March 5, 2020	July 6, 2021	October 3, 2021	0% 0	days	1 day	577 days		Prep	are DD/	for E&	M and	CE certif	cation (	(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	days	0.5 days	577 days		+	ubmit 8	endors	e by I'i	and Sta	tutory /	Authori	ities/Gov	. Dept		
-	Dept 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	days	0 days	577 days			Prepare	DDA foi	E&N	and ICE o	ertificat	ion (Fir	nal)			
	. ,							,	,		•	•								ШШ					
	Programme- Critical Task  (01 with Progress Critical Split Split Split			anual Task art-only	Duration Baseline	-only	Baseline Milestone Milestone		imary		nal Tasks nal Milestor	ne 🔷		ive Milestone	Base	line Summa	ry 🖳		1						
	s of 22-Sep-19 Critical Progress Task Progress		St	art-Offiy L	Baseline		- ivillestone	→ Man	ual Summary	<ul> <li>Exter</li> </ul>	ııdı ıviilestor	IC 🔍	Inacti	ive Summary											

To-1. 4	Jama	Duratic -	Domain:	Actual Ctart	Actual Finish	Dlan Ctart	22092019_Re		Lata Finish		Erco	Time Di-	Total										
Task N	Name	Duration	Remaining Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical %		Time Risk Allowance			2020		2021		2022		2023		2024
	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) 0 days	577 days	L H2 Sun September 22	H1	H2 Subn		H2	H d Statute	1 rv Autho	H2		H2
	Dept	·					, ,		, .						ATD 644								
!	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				rt and Intak						
3	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 fo	r Box Cu	vert and Int	ke Structi	res (Fina	I)			
4	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		DE	A for Bo	Culvert and	Intake St	uctures (	Draft)			
5	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		<b></b>	DDA for	Box Culvert	ınd Intake	Structur	es (Final)			
6	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 W	orks (Draf	(t)				
7		38 days	38 days	NA	NA	May 27, 2020	July 3, 2020	November 13, 2021	· ·		52 days		535 days			AIP fo	r Remaining	Works (Fi	nal)				
3	, ,	90 days		NA	NA	May 27, 2020	August 24, 2020	September 22, 2021			0 days		483 days				A for Remai		11 [ 1 [ 1 [ 1	.			
9	- · · · · · · · · · · · · · · · · · · ·	52 days <b>302 days</b>	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		El		DDA for Rei ndscape Dec				rk		
	·	·							, .				-										
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 2, 2019 September 20, 201	May 30, 2019 19 September 3, 2019	September 2, 2019 September 20, 201		0 days 0 days	3 days 1 days	0 days 0 days				fication (Dra M and Statu	1111	rities//Gp	v. Dept			
	Dept		·						, ,			1 days	o days										
3		14 days 52 days	0 days 46.9 days	August 29, 2019 September 14, 201	September 11, 2019		September 11, 201	19 August 29, 2019 9 September 14, 2019	September 11, 201		- '	0 days 1 day	0 days 26 days				ification (Fir E certificatio						
5	Submit & endorse by PM and Statutory Authorities/Gov.	· ·	60 days	NA	NA		· ·	December 24, 2019	,			0.5 days	40 days		r		e by PM an	`     1	Authori	ies/Gov.	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 days	0 days	40 days		Prena	e DDA fo	r and ICE cei	lification (	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 days	40 days				dorse by Pl		1111   1711	horities/	Gov. Dept		
8	Dept Waterfront Promenade and At-grade Open Space	671 days	671 days	NA	NA	November 14, 2019	Sentember 1/1 20	December 10, 2019	October 10, 2021	0%	0 days		26 days					v	/aterfror	t Promer	ade and At-	arade Open	) Space
9	Prepare AIP for Observation Deck with Lift and Staircase			NA	NA		•	December 10, 2019				1 day	26 days		Prepar	AIP for	Observation	11 - 1		III I	and ICE certi		-
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		Sub	mit&en	dorse by PM	and Statu	tary Auti	orities/G	ov Dept		
	Dept		,			, ,	,	ŕ	, .		•	,	,		ГШ								D
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		_∓-Pr	pare AIP	for Observa	ion Deck v	vith Lift a	and Stair	aseand ICE o	ertification	ı (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		P	repare Di	A for Obse	vation De	k with Li	ft and St	aircase and I	CE certifica	tion (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		_	Submit	& endorse l	y FM and	Statutor	/ Authori	ies/Gov. De	pt	
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	e DDA for (	bservatio	n Deck w	ith Lift ar	d Staircase a	nd ICE cert	tification (l
	Staircase and ICE certification (Final)		, ·								o uays	U uays				]     -							meation (i
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			Su	bmit & endo	se by PM	and Stati	utory Au	horities/Gov	. Dept	
6	·	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		Pre	are AIP	or Remainir	g Works a	t Waterfr	ont Pron	enade and I	CE certifica	tion (Draft)
	Promenade and ice certification (Drait)																		ill III				
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 8	endorse by	PM and St	atutory A	Authoritie	s/Gov. Dept		
8	Prepare AIP for Remaining Works at Waterfront	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 Rem	ining Wo	ks at Wa	terfront l	Promenade a	nd ICE cert	ification (F
	Promenade and ICE certification (Final)																		ill III				
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			Pre	pare DDA fo	r Remaini	ng Work:	s at Wate	rfront Prom	enade and I	CE certifica
																		<b>.</b>			0	C	
0	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	August 21, 2020	October 19, 2020	June 3, 2021	August 1, 2021	0%	0 days	0.5 days	286 days				Submit & e	lacrse by	ivi and S	tatutory	Authorities/	Jov. Dept	
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 DI	Alfor Ren	aining M	orks at \	Vaterfront P	romenade a	and ICE cer
																						. III _	
2	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	60 days	NA	NA	October 30, 2020	December 28, 2020	0 August 12, 2021	October 10, 2021	0%	260 days	0 days	286 days			•	Submit	R enderse	py PM a	nd Statu	ory Authorit	ies/Gov. D	apt .
3	·	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 [	esing of	Landsca	e Deck, Lifts	and associ	ated 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 f	r Cladding	Desing	of Lands	ape Deck, Li	fts and asso	ociated 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 dav	146 days				D	A for Clad	Jding De	sing of La	ndscape Dec	k, Lifts and	l associated
	associated Works (Draft)																						
6	DDA for Cladding Desing of Landscape Deck, Lifts and associated Works (Final)	52 days	52 days	NA	NA	March 27, 2021	May 17, 2021	August 20, 2021	October 10, 2021	0%	120 days	1 day	146 days								Landscape		
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				AIP	lor Water	Works - \	Waterfro	nt Promenad	e and at gr	ade 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					P for Wat	er Works	- Waterf	ont Promen	ade and at	grade Ope
9	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 dav	86 days					DDA for	Water W	orks - Wa	terfront Pro	menade an	d at grade
	grade Open Space (Draft)	,																			Waterfront I		•
0	DDA for Water Works - Waterfront Promenade and at grade Open Space (Final)	·	52 days	NA	NA	May 26, 2021	July 16, 2021	August 20, 2021	October 10, 2021	U%	60 days	ı uay	86 days					Ш					•
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					MP for Bal	istrade a	ınd Railin	g of Promen	ade, Open	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 E	alustrad	e and Rai	ling of Prom	enade, Ope	n Space a
	and Assocated Works (Final)																		ШШ				
Revised Pro	ogramme- Critical Task		Ma	anual Task	Duration-or	nly	Baseline Milestone	♦ Sum	mary	Ext	ernal Tasks		Inactive Mile	ilestone ♦	Bas	eline Summar	/ 🗕	_					
D/2018/0	1 with Progress Critical Split Split		Sta		Baseline		Milestone		ual Summary		ernal Milesto	ne ♦	Inactive Sun										
paate as (	of 22-Sep-19 Critical Progress Task Progr	ess	Fir	ish-only	Baseline Spl	lit	Summary Progress	Proje	ect Summary	Ina	ctive Task		Deadline	•									

10	sk Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Progress Update as o	Physical Free	Time Ri	isk Total						-	-			
	sa ivalile	Duration	Duration	Actual Start	Actual I IIIIsii	rian Start	riait i iiiisii	Late Start	Late i iiiisii	% Slack	Allowar	nces Slack 2019	202	0		2021		2022	2	2023		2024
53	DDA for Balustrade and Railing of Promenade, Open Space and Assocated Works (Draft)	90 days	90 days	NA	NA	April 26, 2021	July 24, 2021	May 22, 2021	August 19, 2021	Complete 0% 0 days	(TRA) 1 day	26 days	H2 Sun September 22	H1 	H2	H1	DID/A	for Balu	strade and	H2 H I Railing of P	1 H2 romenade, O	) )pen Spac
4	DDA for Balustrade and Railing of Promenade, Open Space and Assocated Works (Final)	52 days	52 days	NA	NA	July 25, 2021	September 14, 202	1 August 20, 2021	October 10, 2021	0% 0 days	1 day	26 days						DA for B	alustrade	and Railing o	f Promenade	e, Open S
5	Landscaping works	457 days	457 days	NA	NA	March 29, 2020	June 28, 2021	April 24, 2020	November 15, 2022	0% 26 day	s	26 days						<del>scaping w</del>				
6	Prepare AIP for Roadside Landscaping Softworks and ICE certification (Draft)	61 days	61 days	NA	NA	March 29, 2020	May 28, 2020	April 24, 2020	June 23, 2020	0% 0 days	1 day	26 days			pare Al	P for Road	side Land	Iscaping !	Softworks	and ICE certi	fication (Dra	aft)
57	Submit & endorse by PM and Statutory Authorities/Gov.  Dept	60 days	60 days	NA	NA	May 29, 2020	July 27, 2020	April 22, 2022	June 20, 2022	0% 0 days	0.5 days	s 693 days			Submit	& endors	a by PM a	and Statu	tory Auth	orities/Gov. [	Pept	
8	Prepare AIP for roadside landscaping softworks and ICE	14 days	14 days	NA	NA	July 28, 2020	August 10, 2020	June 21, 2022	July 4, 2022	0% 18 day	s 0 days	693 days			Prepa	e AIP for	oadside	landscapi	ng softwo	orks and ICE c	ertification (	(Final)
59	certification (Final) Prepare DDA for Roadside Landscaping Softworks and ICI	92 days	92 days	NA	NA	May 29, 2020	August 28, 2020	June 24, 2020	September 23, 2020	0% 0 days	1 day	26 days			Prep	ire DDA f	r Floadsid	de Lands	caping Sof	tworks and I	E certification	on (Draf
50	certification (Draft) 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 days	0.5 days	s 675 days			s	ıbmit & e	idorse by	y PM and	Statutory	Authorities/	Gov. Dept	
51	Dept Prepare DDA for Roadside Landscaping Softworks and ICI	14 days	14 days	NA	NA	October 28, 2020	November 10, 2020	0 September 3, 2022	September 16, 2022	0% 0 days	0 days	675 days				Prepare Di	IA for Ro	adside La	ındscapine	g Softworks a	nd ICE certif	fication (
62	certification (Final) 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 da	ys 0 days	675 days				Submi	& endor	se by PM	and Statu	itory Authori	ties/Gov. De <sub>l</sub>	pt
63	Dept 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 days	1 day	26 days				repare AII	far irriga	ation syst	em for al	landscaping	works and IC	CE certifi
54	works and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov.	60 days	60 days	NA	NA	October 28, 2020	December 26, 2020	March 17, 2022	May 15, 2022	0% 0 days	0.5 days	s 505 days				Submit	k endors	e by PM	and Statu	tory Authoriti	es/Gov. Dep	ot
65	Dept 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 days	0 days	505 days				Prepar	AIP for i	irrigation	system fo	or all landscap	oing works a	nd ICE ce
56	works and ICE certification (Final) 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 days	1 day	505 days				P	epare DE	)A for irr	igation sy	stem for all la	ndscaping w	vorks and
67	works and ICE certification (Draft) 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 days	0.5 days	s 505 days					Submit	& endor	se by PM	and Statutory	Authorities	s∕Gov. De
68	Dept 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 days	0 days	505 days					Prepar	e DDA fo	r irrigatio	n system for a	all landscapii	ng work:
59	works and ICE certification (Final) 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 da	ys 0 days	505 days					Subm	it & ende	orse by PN	l and Statuto	ry Authoritie	es/Gov. [
70 <b>W</b> c	Dept ork Stage/ Phase - Planned Completion	1394 days	1394 days	NA	NA	August 4, 2020	May 29, 2024	August 7, 2020	May 29, 2024	0% 0 days		0 days										
-	Section 1	0 days	0 days	NA	NA	March 1, 2022	March 1, 2022	March 1, 2022		0% 0 days		0 days							Section 1			
2 5	Section 2	0 days	0 days	NA	NA	May 26, 2021	May 26, 2021	June 2, 2021	June 2, 2021	0% 6 days	0 days	6 days					Section	۱ <u>۲</u>       ۲	,			
3 5	Section 3	0 days	0 days	NA	NA	October 28, 2021	October 28, 2021	November 2, 2021	November 2, 2021	0% 4 days	0 days	4 days						Section	13			
	Section 4	0 days	0 days	NA	NA	May 17, 2023	May 17, 2023	May 30, 2023	_ · · ·	· ·	s 0 days	10 days						_   _			Section	4
-	Section 5	0 days	0 days	NA	NA	June 28, 2021	June 28, 2021	July 5, 2021		0% 5 days		5 days					Section 2	ארכ אוכ			Soction	C
-	Section 6	0 days	0 days	NA	NA	May 30, 2023	May 30, 2023	May 30, 2023	- · ·	0% 0 days		0 days									Section	A 6
	Section 7	0 days	0 days	NA	NA	May 29, 2024	May 29, 2024	May 29, 2024	· '	0% 0 days		0 days						₄ Sectio	on 8			
-	Section 8 Section 9	0 days	0 days 0 days	NA NA	NA NA	November 24, 2021 June 25, 2021	June 25, 2021	July 5, 2021	December 2, 2021 July 5, 2021	0% 7 days 0% 7 days		7 days 7 days					Section	00 9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
_	Section 10	0 days	0 days	NA	NA NA	May 18, 2023	May 18, 2023	May 30, 2023	<u> </u>	0% 7 days		9 days									Section	ı 10
	KD1	0 days	0 days	NA	NA	August 4, 2020	August 4, 2020	August 7, 2020		0% 3 days		3 days			KD1							
32 I	KD2	0 days	0 days	NA	NA	March 29, 2021	March 29, 2021	April 18, 2021	April 18, 2021	0% 14 day	s 0 days	14 days				K	D2					
	KD3	0 days	0 days	NA	NA	May 21, 2021	May 21, 2021	June 1, 2021	- · · · · · · · · · · · · · · · · · · ·	0% 9 days	0 days	9 days					коз					
	KD4	0 days	0 days	NA	NA		January 31, 2022	January 31, 2022	January 31, 2022		0 days	0 days						a I	KD4			
	KD5	0 days	0 days	NA	NA			1 September 17, 2021	September 17, 2021		0 days	0 days						KD5				
36 H	KD6	0 days	0 days	NA	NA	December 14, 2021	December 14, 2021	1 December 29, 2021	December 29, 2021	0% 11 day	s 0 days	11 days						<b>≪</b> KD€	ااا			
37 F	KD7	0 days	0 days	NA	NA	May 27, 2022	May 27, 2022	June 3, 2022	June 3, 2022	0% 5 days	0 days	5 days							<b>₩</b> KD7	7		
38 Coi	nstruction Works	1499 days	1491.94 days	May 16, 2019	NA	May 16, 2019	May 29, 2024	May 16, 2019	May 29, 2024	0% 0 days		0 days						####				
,,,	Office Accommodation	53 days		August 8, 2019	NA	August 8, 2019	October 31, 2019	August 8, 2019	January 10, 2020		s 1 day	58 days	Office	Accomm	odation				اللاءا			
-	Procurement of Materials and Equipments	509 days		NA	NA	November 4, 2019		November 26, 2019	· ·	0% 19 day		19 days			-			curement	of Mater	ials and Equip	oments	
	Excavation Permit	297 days	-	NA	NA		October 16, 2020	,			-	326 days			11 7 1	ccavation						
	Haul Road Diversion 3m wide within Kai Tak Sport Part	152 days		NA 16, 3010	NA	November 1, 2019		December 30, 2023		0% 1520 d		1520 d		riau		ersion sm	wite wit		ak Sport Pa Section 1	ari.		
	Section 1	831 days		May 16, 2019	NA Santambar 11, 20	May 16, 2019	March 1, 2022	May 16, 2019		0% 668 da		668 days	Agree In	orford C	ordina	ion Plan v	H CK 3		Section 1	•		
)2	Agree Interface Coordination Plan with CKR & KTSP	14 days	0 days	August 27, 2019 September 12, 20		19 August 27, 2019	September 11, 201	9 September 12, 2019	September 11, 2019		0 days	0 days	Grou			ion Fian v		70.35				
)3	Ground Investigation  GI Work	60 days	52 days 52 days	September 12, 20				9 September 12, 2019			s 0.5 days	<b>38 days</b> s 38 days	y GI W		i.gatioi.							
)5	Part 1 - Junction Modification Rd L6 & D2	80 days	80 days	NA	NA NA	November 22, 2021		November 22, 2021		0% 0 days	3 0.5 days	0 days		- 1					Part 1 - J	unction Modi	fication Rd L	L6 & D2
)6	Break up existing pavement and traffic island	12 days	•	NA	NA			November 22, 2021			0 days	0 days								ng pavement		
7	Utility ducting laying (by others)	25 days		NA	NA	December 6, 2021		December 6, 2021		0% 0 days		0 days							11 - 11	g laying (by		
8	Trim formation and lay sub base	7 days	7 days	NA	NA			1 December 13, 2021			0 days	0 days							- 1	n and lay sub	1111	
9	Lay kerb	12 days		NA	NA	December 21, 2021		December 21, 2021			0 days	0 days							/ kerb			
0	Construct pedestrian street/ footpath	7 days	7 days	NA	NA	January 7, 2022	January 14, 2022	January 7, 2022	January 14, 2022			0 days							11 11 1	destrian stre	et/ footpath	1
1	Install central median	12 days	12 days	NA	NA	January 15, 2022	January 28, 2022	January 15, 2022	January 28, 2022	· ·		0 days							stall centr			
2	Concrete infill between profile barrier	4 days	4 days	NA	NA	January 29, 2022	February 5, 2022	January 29, 2022	February 5, 2022	· ·	0 days	0 days							oncrete i	ıfill between	orofile barrie	er
3	Road pavement	5 days	5 days	NA	NA	February 7, 2022	February 11, 2022	February 7, 2022	February 11, 2022		0 days	0 days							Road paver	ment		
14	Install street furniture	15 days	15 days	NA	NA	February 12, 2022	March 1, 2022	February 12, 2022	March 1, 2022	0% 0 days	1 days	0 days							Install str	eet furniture		
	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 day	s	41 days				<del>                                      </del>		Part	1 - Road C	03 CH1000-10	87	
15																						
15																						
	d Programme- Critical Task		Ma	anual Task	Duration	-only	Baseline Milestone	♦ Sum	mary	External Task	cs	Inactive Milesto	ne ♦	Baseline :	Summary		_					
Revised	8/01 with Progress Critical Split Split		Ma Sta		Duration- Baseline	only	Baseline Milestone Milestone		mary ual Summary	External Task		Inactive Milesto		Baseline :	Summary		_					
201			Sta				Baseline Milestone Milestone Summary Progress	♦ Man	-		estone 🔷			Baseline :	Summary		_					

	Task Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	_	rised Programme with Late Start	Late Finish	Physical Fre		ime Risk Total	
			Duration							% Sla Complete		Illowances Slack TRA)	2019   2020   2021   2022   2023   2024
416	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 Area)	d O 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 Access between CH1000 and CH1087 for EMSD Thied District Coolir
417	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	Eetween CH1000 and CH1087 Area Handover Back from EMS
418	Utility ducting laying (by others)	26 days	26 days	NA	NA	August 24, 2021	September 23, 2021	August 24, 2021	September 23, 202	1 0% 0 d	ays 2	days 0 days	Utility ducting laying (by others)
419	Trim road formation	3 days	3 days	NA	NA	September 24, 202	1 September 27, 2021	1 September 24, 2021	September 27, 202	1 0% 0 d	ays 0	days 0 days	Trim road formation
420	Lay sub base	7 days	7 days	NA	NA	September 28, 202		September 28, 2021			-	days 0 days	Lay sub base
421	Lay kerb	12 days	12 days	NA	NA	October 7, 2021		October 7, 2021	October 21, 2021		-	days 0 days	Lay kerb
422 423	Construct pedestrian street/ footpath  Install central median	7 days 10 days	7 days 10 days	NA NA	NA NA	October 22, 2021 October 30, 2021	October 29, 2021 November 10, 2021		October 29, 2021 November 10, 2022		ays 0 ays 0	days 0 days	Install central median
424	Concrete infill between profile barrier	4 days	4 days	NA	NA			November 11, 2021			•	days 0 days	Congrete infill between profile barrier
425	Road pavement	5 days	5 days	NA	NA			November 16, 2021			•	days 0 days	Road pavement:
426	Install street furniture	7 days	7 days	NA	NA	November 22, 2021	November 29, 2021	February 22, 2022	March 1, 2022	0% 73	days 0	days 73 days	install street furniture
427	Bridge D3 (Approach Ramp and Bridge) CH1087-1444.7	812 days	812 days	NA	NA	May 16, 2019		December 28, 2019		0% 19	days	19 days	
428	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	April 17, 2021	0% 79	days	79 days	North Appro <mark>ach Ramp</mark> (Fronting CKR) CH1087-1189.4 - 7 bays
429	Procurement of Movement Joints for Bridge Works	90 days	90 days	NA	NA	January 11, 2020	April 9, 2020	March 4, 2020	June 1, 2020	0% 49	days	53 days	Procurement of Movement Joints for Bridge Works
430	Ground Monitoring Works	14 days	14 days	NA	NA	September 23, 201	October 6, 2019	December 28, 2019	January 10, 2020	0% 0 d	ays 0	days 96 days	s and the state of the state o
431	Mobilization of plant and material	10 days	10 days	NA	NA	January 11, 2020		January 11, 2020	January 22, 2020	0% 0 d	ays 0	days 0 days	Mobilization of plant and maile fial
432	Foundation Construction	64 days	64 days	NA	NA	January 23, 2020		January 23, 2020	April 14, 2020		ays 3		Foundation Construction
433	Drive sheetpile (~200m) Prod. Rate: 10m/d/team	20 days	20 days	NA	NA NA	April 15, 2020		April 18, 2020	May 13, 2020		-	days 3 days	Drive sheetpile (~200m) Prod. Rate: 10m/d/team  Excavation ~1,876m3 Relater a support. Prod. Rate: 160m3/day/team (Bay 1 to 7)
434	Excavation ~1,876m3 & lateral support. Prod. Rate: 160m3/day/team (Bay 1 to 7)	12 days	12 days	NA	NA	May 11, 2020	May 24, 2020	May 14, 2020	May 27, 2020	0% 0 d	ays 1	days 3 days	
435	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 d	ays 0	days 3 days	Blinding layer. Prod. H <mark>at</mark> e: 2b <mark>ay</mark> s/day
436	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	0% 3 d	ays 3	days 3 days	Base slab Prod. Rate: 85/bay/team
437	Base slab (Bay 2 & 4) -1 team	16 days	16 days	NA	NA	May 29, 2020		June 2, 2020	June 19, 2020		•	days 3 days	Base slab (Bay 2 & 4) -1 team
438	Base slab (Bay 1 & 3) - 1 team	16 days	16 days	NA	NA	June 17, 2020		June 20, 2020	July 10, 2020		•	days 3 days	Base slab (Bay 1 & 3) - 1 team  (5) Base slab (Bay 5 & 7) - 1 team
439 440	Base slab (Bay 5 & 7) - 1 team Base slab (Bay 6) - 1 team	16 days 8 days	16 days 8 days	NA NA	NA NA	July 8, 2020 July 27, 2020		January 25, 2021 March 6, 2021	February 11, 2021 March 15, 2021		ays 0 days 0	days 166 days	<u>~</u>
441	Wall. Prod. Rate: 12d/bay/team	74 days	74 days	NA	NA NA	July 8, 2020		July 11, 2020	April 17, 2021			days 3 days	Wall. Prod. Rate: 12:1/bay/team
442	Wall (Bay 2 & 4) - 2 teams	12 days	12 days	NA	NA	July 8, 2020		July 11, 2020	July 24, 2020		-	days 3 days	<b>W</b> all (Bay 2 & 4) - 2 teams
443	Wall (Bay 1 & 3) 2 teams (KD1)	12 days	12 days	NA	NA	July 22, 2020	August 4, 2020	July 25, 2020	August 7, 2020	0% 0 d	ays 1	days 3 days	
444	Wall ( Bay 5 & 7) - 1 team	24 days	24 days	NA	NA	August 5, 2020	September 1, 2020	February 16, 2021	March 15, 2021	0% 0 d	ays 0.	.5 days 158 days	/s Wall ( Bay 5 & 7) - 1 team
445	Wall (Bay 6) - 1 team (KD2)	12 days	12 days	NA	NA		September 15, 2020		March 29, 2021		•	days 158 days	
446	Backfill and extract sheet pile	14 days	14 days	NA	NA	September 16, 202		March 30, 2021	April 17, 2021		4 days 0		
447	North Approach Ramp (Fronting KTSP) CH1087-1189.4 - 7 bays	7 608 days	608 days	NA	NA	October 7, 2019		April 1, 2020	February 21, 2022	0% 97	days	97 days	
448	Ground Monitoring Works	14 days	14 days	NA	NA	October 7, 2019	-	April 1, 2020	April 14, 2020		•	days 177 days	
449 450	Mobilization of plant and materials  Foundation Construction	19 days 94 days	19 days 94 days	NA NA	NA NA	April 15, 2020 May 9, 2020		April 15, 2020 May 9, 2020	May 8, 2020 August 28, 2020		•	days 0 days days 0 days	Mobilization of plant and materials  Foundation Construction
450	Drive sheetpile (~200m) Prod. Rate: 10m/d/team	24 days	24 days	NA	NA		September 25, 2020		September 25, 202		•	days 0 days	Drive sheetpila (~200 m) Prod. Rate: 10m/d/team
452	Excavation ~1,996m3 & lateral support. Prod. Rate:	18 days	18 days	NA	NA	_ ·		September 26, 2020			•	days 0 days	Excavation ~1,996m3 & lateral support. Prod. Rate: 160m3/day/team
	160m3/day/team							ļ					
453	Blinding layer. Prod. Rate: 2bays/day  Base slab (Bay 1 to 7) Prod Rate: 8d/bay/team- 1 team	13 days	13 days 64 days	NA NA	NA NA		November 4, 2020 January 21, 2021	October 20, 2020	November 4, 2020	0% 0 d	-	days 0 days	
454 455	Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)	64 days	04 uays	INA	INA	November 5, 2020		November F 2020	January 21, 2021	00/ 0.4	21/6	days 0 days	Blinding layer Prot. Rate: 2bays/day
	17am (Bay 1 to 7) 12a, bay, team 1 team (NBS)	95 days	95 days	NA	NA	January 22 2021		November 5, 2020	January 21, 2021 May 21, 2021		•	days 0 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team- 1 team
456	Backfilling ~8,372.91m3 within approach ramp to	95 days 53 days	95 days 53 days	NA NA	NA NA	January 22, 2021 May 22, 2021	May 21, 2021	January 22, 2021	May 21, 2021	0% 0 d	ays 4	days 0 days	
456	formation level (160m3/day) considered time for SRT	53 days	53 days	NA	NA	May 22, 2021	May 21, 2021 July 24, 2021	January 22, 2021 May 22, 2021	May 21, 2021 July 24, 2021	0% 0 d	ays 4	days 0 days	Base S ab (Bay 1 to 7) Frod Rate: 8d/bay/team- 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to
457	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp	53 days p 24 days	53 days 24 days	NA NA	NA NA	May 22, 2021 July 27, 2021	May 21, 2021 July 24, 2021 August 23, 2021	January 22, 2021 May 22, 2021 July 27, 2021	May 21, 2021 July 24, 2021 August 23, 2021	0% 0 d 0 d 0% 0 d 0% 0 d 0% 0 d 0% 0 d 0 d	ays 4 ays 1 ays 1	days 0 days days 0 days days 0 days	Base S ab (Bay 1 to 7) Frod Rate: 8d/bay/team- 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to  Pacing of precast planting channel along approach ramp
457 458	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others)	53 days p 24 days 26 days	53 days 24 days 26 days	NA NA NA	NA NA NA	May 22, 2021 July 27, 2021 July 26, 2021	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021	0% 0 d 0% 0 d 0% 0 d 0% 0 d	ays 4 ays 1 ays 1 ays 1	days 0 days days 0 days days 0 days days 0 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team- 1 team  Wall (Bay 1 to 7) 12d/bay/team- 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to  Pacing of precast planting channel along approach ramp  Utility ducting laying (by others)
457 458 459	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath	53 days p 24 days 26 days 5 days	53 days 24 days 26 days 5 days	NA NA	NA NA	May 22, 2021 July 27, 2021	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021	0% 0 d	ays 4 ays 1 ays 1 ays 1 ays 0	days 0 days	Base S ab (Bay 1 to 7) Frod Rate: 8d/bay/team- 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to  Pacing of precast planting channel along approach ramp
457 458	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others)	53 days p 24 days 26 days	53 days 24 days 26 days	NA NA NA	NA NA NA	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021	0% 0 d	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0	days 0 days days 0 days days 0 days days 0 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team- 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to  Pacing of precast planting channel along approach ramp  Utility ducting laying (by others)  Construct pedestrian street/ footpath
457 458 459 460	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median	53 days p 24 days 26 days 5 days 6 days	53 days 24 days 26 days 5 days 6 days	NA NA NA NA	NA NA NA NA	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202	0% 0 d 10% 0 d	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0	days 0 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team- 1 team  Wall (Bay 1 to 7) 12d/bay/team- 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to  Pacing of precast planting channel along approach ramp  Utility ducting laying (by others)  Construct pedestrian street/ footpath Install central median
457 458 459 460 461	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median Concrete infill between profile barrier	53 days p 24 days 26 days 5 days 6 days 5 days	53 days 24 days 26 days 5 days 6 days 5 days	NA NA NA NA NA	NA NA NA NA NA	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 16, 2021	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 16, 202	0% 0 d 10% 0 d	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0	days 0 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team- 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to  Pacing of precast planting channel along approach ramp  Utility ducting laying (by others)  Construct pedestrian street/ footpath Install central median  Concrete infill between profile barrier  Lay sub base  Recad pavement
457 458 459 460 461 462 463 464	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median Concrete infill between profile barrier Lay sub base Road pavement Install railing on top of retaining wall & street furniture	53 days p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 4 days 5 days 24 days	53 days 24 days 26 days 5 days 6 days 5 days 4 days 5 days 4 days 5 days	NA	NA	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 16, 2021 1 September 23, 2021	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 I September 7, 2021 I September 13, 2021 I September 17, 2021 January 21, 2022	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 16, 202 September 23, 202 February 21, 2022	0% 0 d 10% 0 d 10% 0 d 10% 0 d 10% 0 d 0% 244	ays 4 ays 1 ays 1 ays 1 ays 0 ddys 0	days 0 days days 97 days	Base s ab (Bay 1 to 7) Frod Rate: &d/bay/team - 1 team    Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)   Backfilling - 8,372.91m3 within approach ramp to formation to generate planting channel along approach ramp   Utility ducting laying (by others)   Construct pedestrian street/ footpath   Install central median   Concrete infill between profile barrier   Lay sub base   Read pavement   Lailing on top of retaining wall & street furniture
457 458 459 460 461 462 463 464 465	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median Concrete infill between profile barrier Lay sub base Road pavement Install railing on top of retaining wall & street furniture Part 3G - CH1189.4 to CH1229 North Abutment	53 days p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 4 days 5 days 24 days 28 days	53 days 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 24 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 16, 2021 1 September 23, 2021 1 October 23, 2021 March 29, 2021	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 I September 7, 2021 I September 13, 2021 I September 17, 2021 January 21, 2022 May 4, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 16, 202 September 23, 202 February 21, 2022 April 17, 2021	0% 0 d 10% 1 d 10% 1 d 10% 1 d 10% 1 d	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 ays 0 ays 0 days 0 days	days 0 days days 14 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team- 1 team    Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)   Backfilling - 8,372.91m3 within approach ramp to formation to gradient the street of the stre
457 458 459 460 461 462 463 464 465 466	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median Concrete infill between profile barrier Lay sub base Road pavement Install railing on top of retaining wall & street furniture Part 3G - CH1189.4 to CH1229 North Abutment Pre-drilling Works	53 days p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 4 days 5 days 24 days 24 days 14 days	53 days 24 days 26 days 5 days 6 days 5 days 4 days 5 days 4 days 24 days 286 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 16, 2021 1 September 23, 2021 1 October 23, 2021 March 29, 2021 April 28, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 I September 7, 2021 I September 13, 2021 I September 17, 2021 January 21, 2022 May 4, 2020 May 4, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 16, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020	0% 0 d 10% 0 d 0% 24. 0% 14.	ays 4 ays 1 ays 1 ays 1 ays 0 days 0 days 1	days 0 days days 19 days days 19 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team - 1 team    Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)   Backfilling - 8,372.91m3 within approach ramp to formation to a strict of precast planting channel along approach ramp   Utility ducting laying (by others)   Construct pedestrian street/ footpath   Install central median   Concrete infill between profile barrier   Lay sub base   Read pavement   Second Part 36 (CH1189.4 to CH1229 North Abutment)   Part 36 (CH1189.4 to CH1229 North Abutment)
457 458 459 460 461 462 463 464 465	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median Concrete infill between profile barrier Lay sub base Road pavement Install railing on top of retaining wall & street furniture Part 3G - CH1189.4 to CH1229 North Abutment	53 days p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 4 days 5 days 24 days 28 days	53 days 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 24 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 16, 2021 1 September 23, 2021 1 October 23, 2021 March 29, 2021 April 28, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 I September 7, 2021 I September 13, 2021 I September 17, 2021 January 21, 2022 May 4, 2020 May 4, 2020 May 18, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 16, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020	0% 0 d 10% 0 d 10% 0 d 10% 0 d 10% 0 d 0% 24 0% 14 0% 0 d 0% 0 d	ays 4 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 ays 0 ays 0 days 0 days 0 days 0	days 0 days days 19 days days 19 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team - 1 team    Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)   Backfilling - 8,372.91m3 within approach ramp to formation to a same proach property of precast planting channel along approach ramp   Utility ducting laying (by others)   Construct pedestrian street/ footpath   Install central median   Concrete infill between profile barrier   Lay sub base   Road pavement   Bart 3G - CHI189.4 to CH1229 North Abutment   Part 3G - CHI189.4 to CH1229 North Abutment   Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.
457 458 459 460 461 462 463 464 465 466 467	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median Concrete infill between profile barrier Lay sub base Road pavement Install railing on top of retaining wall & street furniture Part 3G - CH1189.4 to CH1229 North Abutment Pre-drilling Works Bored pile (8 numbers). Prod. Rate: 10d/pile/rig. Pile Testing (28d curing & 14 test) - 1 full-core to be carried out	53 days  p 24 days 26 days 5 days 6 days 5 days 4 days 24 days 24 days 286 days 14 days 80 days 42 days	53 days 24 days 26 days 5 days 6 days 5 days 4 days 24 days 24 days 286 days 14 days 80 days 42 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020 April 29, 2020 August 5, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 September 16, 2021 September 23, 2021 October 23, 2021 March 29, 2021 April 28, 2020 August 4, 2020 September 22, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 I September 7, 2021 I September 13, 2021 I September 17, 2021 January 21, 2022 May 4, 2020 May 4, 2020 May 18, 2020 D August 21, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 16, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020 August 20, 2020 October 10, 2020	0% 0 d 10% 0 d 10% 0 d 10% 0 d 10% 0 d 0% 24 0 d 0% 0 d 0% 0 d 0% 0 d	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 ays 0 days 0 days 0 days 2 ays 2 ays 2	days 0 days days 14 days days 14 days days 14 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team - 1 team    Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)   Backfilling - 8,372.91m3 within approach ramp to formation to proceed the struct pedestrian street/ footpath   Install central median   Concrete infill between profile barrier   Lay sub base   Road pavement   Install railing on top of retaining wall & street furniture   Part 3G - CH1189.4 to CH1229 North Abutment   Pre-drilling Works   Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.   Pile Testing (28d curing & 14 test) - 1 full-core to be carried out
457 458 459 460 461 462 463 464 465 466 467 468	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median Concrete infill between profile barrier Lay sub base Road pavement Install railing on top of retaining wall & street furniture Part 3G - CH1189.4 to CH1229 North Abutment Pre-drilling Works Bored pile (8 numbers). Prod. Rate: 10d/pile/rig. Pile Testing (28d curing & 14 test) - 1 full-core to be carried out Proof-drilling Works	53 days  p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 24 days 286 days 14 days 80 days 42 days 7 days	53 days 24 days 26 days 5 days 6 days 5 days 4 days 24 days 24 days 286 days 14 days 80 days 42 days 7 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020 April 29, 2020 August 5, 2020 August 5, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 September 23, 2021 October 23, 2021 March 29, 2021 April 28, 2020 August 4, 2020 September 22, 2020 August 41, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 I September 7, 2021 I September 13, 2021 I September 17, 2021 January 21, 2022 May 4, 2020 May 4, 2020 May 18, 2020 O August 21, 2020 October 4, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 16, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020 August 20, 2020 October 10, 2020	0% 0 d 10% 0 d 10% 0 d 10% 0 d 0% 24 0 d 0% 0 d 0% 0 d 0% 0 d 0% 0 d	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 ays 0 days 0 days 0 days 2 ays 2 ays 2	days 0 days days 10 days days 14 days days 14 days days 60 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team - 1 team    Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)   Backfilling - 8,372.91m3 within approach ramp to formation to proceed the struct pedestrian street footpath   Install central median   Concrete infill between profile barrier   Lay sub base   Road pavement   Install railing on top of retaining wall & street furniture   Part 3G - CH1189.4 to CH1229 North Abutment   Pre-drilling Works   Prod. Rate: 10d/pile/rig.   Pile Testing (28d curing & 14 test) - 1 full-core to be carried out
457 458 459 460 461 462 463 464 465 466 467 468 469 470	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median Concrete infill between profile barrier Lay sub base Road pavement Install railing on top of retaining wall & street furniture Part 3G - CH1189.4 to CH1229 North Abutment Pre-drilling Works Bored pile (8 numbers). Prod. Rate: 10d/pile/rig. Pile Testing (28d curing & 14 test) - 1 full-core to be carried out Proof-drilling Works Pile Loading Test	53 days  p 24 days 26 days 5 days 6 days 5 days 4 days 24 days 24 days 24 days 24 days 4 days 7 days 7 days 16 days	53 days 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 286 days 14 days 80 days 42 days 7 days 16 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020 April 29, 2020 August 5, 2020 September 23, 202	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 September 23, 2021 October 23, 2021 March 29, 2021 April 28, 2020 August 4, 2020 September 22, 2020 August 11, 2020 October 8, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 I September 7, 2021 I September 13, 2021 I September 17, 2021 January 21, 2022 May 4, 2020 May 4, 2020 May 18, 2020 October 4, 2020 October 11, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 16, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020 August 20, 2020 October 10, 2020 October 10, 2020 October 26, 2020	0% 0 d 10% 0 d 10% 0 d 10% 0 d 0% 24 0 d 0% 0 d	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 days 0 days 0 days 2 ays 2 ays 2 ays 2	days 0 days days 10 days days 14 days days 14 days days 14 days days 60 days days 18 days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team - 1 team    Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)   Backfilling - 8,372.91m3 within approach ramp to formation to a struct pedestrian street/ footpath   Install central median   Concrete infill between profile barrier   Lay sub base   Road pavement   Install railing on top of retaining wall & street furniture   Part 3G - CH1189.4 to CH1229 North Abutment   Pre-drilling Works   Bored pile (8 numbers). Frod. Rate: 10d/pile/rig.   Pile Testing (28d curing & 14 test) - 1 full-core to be carried out   Proof-drilling Works   Pile Loading Test
457 458 459 460 461 462 463 464 465 466 467 468	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others) Construct pedestrian street/ footpath Install central median Concrete infill between profile barrier Lay sub base Road pavement Install railing on top of retaining wall & street furniture Part 3G - CH1189.4 to CH1229 North Abutment Pre-drilling Works Bored pile (8 numbers). Prod. Rate: 10d/pile/rig. Pile Testing (28d curing & 14 test) - 1 full-core to be carried out Proof-drilling Works Pile Loading Test Drive sheetpile (~90m) Prod. Rate: 10m/d/team Excavation ~780m3 & lateral support. Prod. Rate:	53 days  p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 24 days 286 days 14 days 80 days 42 days 7 days	53 days 24 days 26 days 5 days 6 days 5 days 4 days 24 days 24 days 286 days 14 days 80 days 42 days 7 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020 April 29, 2020 August 5, 2020 August 5, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 September 16, 2021 September 23, 2021 October 23, 2021 March 29, 2021 April 28, 2020 August 4, 2020 September 22, 2020 August 11, 2020 October 8, 2020 October 19, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 I September 7, 2021 I September 13, 2021 I September 17, 2021 January 21, 2022 May 4, 2020 May 4, 2020 May 18, 2020 October 4, 2020 October 11, 2020 October 27, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 16, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020 August 20, 2020 October 10, 2020	0% 0 d 10% 0 d 10% 0 d 10% 0 d 0% 0 d	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 days 0 days 0 days 2 ays 2 ays 2 ays 2	days 0 days days 10 days days 14 days days 14 days days 60 days days 14 days days 18 days days 18 days	Base s ab (Bay 1 to 7) Prod Rate: 8d/bay/team - 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling -8,372.91m3 within approach ramp to formation to the state of the state
457 458 459 460 461 462 463 464 465 466 467 468 469 470 471	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others)  Construct pedestrian street/ footpath Install central median  Concrete infill between profile barrier  Lay sub base  Road pavement  Install railing on top of retaining wall & street furniture  Part 3G - CH1189.4 to CH1229 North Abutment  Pre-drilling Works  Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.  Pile Testing (28d curing & 14 test) - 1 full-core to be carried out  Proof-drilling Works  Pile Loading Test  Drive sheetpile (~90m) Prod. Rate: 10m/d/team  Excavation ~780m3 & lateral support. Prod. Rate: 160m3/day/team	53 days p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 286 days 14 days 80 days 42 days 7 days 16 days 9 days	24 days 26 days 5 days 6 days 5 days 5 days 4 days 5 days 24 days 286 days 14 days 80 days 42 days 7 days 16 days 9 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020 April 29, 2020 August 5, 2020 September 23, 202 October 9, 2020 October 20, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 23, 2021 1 September 23, 2021 March 29, 2021 April 28, 2020 August 4, 2020 September 22, 2020 August 11, 2020 October 8, 2020 October 19, 2020 October 27, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 2021 September 17, 2021 January 21, 2022 May 4, 2020 May 18, 2020 Odugust 21, 2020 October 4, 2020 October 4, 2020 October 27, 2020 November 6, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020 August 20, 2020 October 10, 2020 October 10, 2020 October 26, 2020 November 5, 2020 November 12, 2020	0% 0 d 10% 0 d 10% 0 d 10% 0 d 0% 0 d	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 ays 0 days 0 days 2 days 2 days 2 days 0 ays 0	days 0 days days 10 days days 12 days days 14 days days 60 days days 14 days days 18 days days 14 days days 14 days days 14 days days 14 days	Base s ab (Bay 1 to 7) Prod Rate: 8d/bay/team - 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to the state of the state
457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others)  Construct pedestrian street/ footpath Install central median  Concrete infill between profile barrier  Lay sub base  Road pavement  Install railing on top of retaining wall & street furniture  Part 3G - CH1189.4 to CH1229 North Abutment  Pre-drilling Works  Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.  Pile Testing (28d curing & 14 test) - 1 full-core to be carried out  Proof-drilling Works  Pile Loading Test  Drive sheetpile (~90m) Prod. Rate: 10m/d/team  Excavation ~780m3 & lateral support. Prod. Rate: 160m3/day/team  Blinding layer	53 days p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 24 days 24 days 24 days 14 days 80 days 42 days 7 days 16 days 9 days 6 days	53 days 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 286 days 14 days 80 days 42 days 7 days 16 days 9 days 6 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020 April 29, 2020 August 5, 2020 September 23, 202 October 9, 2020 October 20, 2020 October 28, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 23, 2021 1 September 23, 2021 March 29, 2021 April 28, 2020 August 4, 2020 September 22, 2020 August 11, 2020 October 8, 2020 October 19, 2020 October 27, 2020 October 28, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 2021 September 17, 2021 January 21, 2022 May 4, 2020 May 18, 2020 Oaugust 21, 2020 October 4, 2020 October 4, 2020 October 27, 2020 November 6, 2020 November 13, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020 August 20, 2020 October 10, 2020 October 10, 2020 November 5, 2020 November 12, 2020	0%	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 ays 0 days 0 days 2 days 2 days 2 days 0 ays 0 ays 0	days 0 days days 10 days days 14 days days 14 days days 60 days days 14 days	Base s at (Bay 1 to 7) Prod Rate: 8d/bay/team - 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to  Verificity ducting laying (by others)  Construct pedestrian street/ footpath  Install central median  Concrete infill between profile barrier  Lay sub base  Read pavement  Verificity and the street furniture  Read pavement  Verificity and the street furniture  Per drilling Works  Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.  Pile Testing (28c curing & 14 test) - 1 full -core to be carried out  Proof-drilling Works  Prive sheetfile (~90m) Prod. Rate: 10m/d/team  Excavation -730m 3 & lateral support. Prod. Rate: 160m3/day/team  Blinding lay ar
457 458 459 460 461 462 463 464 465 466 467 468 469 470 471	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others)  Construct pedestrian street/ footpath Install central median  Concrete infill between profile barrier  Lay sub base  Road pavement  Install railing on top of retaining wall & street furniture  Part 3G - CH1189.4 to CH1229 North Abutment  Pre-drilling Works  Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.  Pile Testing (28d curing & 14 test) - 1 full-core to be carried out  Proof-drilling Works  Pile Loading Test  Drive sheetpile (~90m) Prod. Rate: 10m/d/team  Excavation ~780m3 & lateral support. Prod. Rate: 160m3/day/team	53 days p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 286 days 14 days 80 days 42 days 7 days 16 days 9 days	24 days 26 days 5 days 6 days 5 days 5 days 4 days 5 days 24 days 286 days 14 days 80 days 42 days 7 days 16 days 9 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020 April 29, 2020 August 5, 2020 September 23, 202 October 9, 2020 October 20, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 23, 2021 1 September 23, 2021 March 29, 2021 April 28, 2020 August 4, 2020 September 22, 2020 August 11, 2020 October 8, 2020 October 19, 2020 October 27, 2020 October 28, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 2021 September 17, 2021 January 21, 2022 May 4, 2020 May 18, 2020 Odugust 21, 2020 October 4, 2020 October 4, 2020 October 27, 2020 November 6, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020 August 20, 2020 October 10, 2020 October 10, 2020 November 5, 2020 November 12, 2020	0%	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 ays 0 days 0 days 2 days 2 days 2 days 0 ays 0	days 0 days days 10 days days 14 days days 14 days days 60 days days 14 days	Base s at (Bay 1 to 7) Prod Rate: 8d/bay/team - 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to  Verificity ducting laying (by others)  Construct pedestrian street/ footpath  Install central median  Concrete infill between profile barrier  Lay sub base  Read pavement  Verificity and the street furniture  Read pavement  Verificity and the street furniture  Per drilling Works  Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.  Pile Testing (28c curing & 14 test) - 1 full -core to be carried out  Proof-drilling Works  Prive sheetfile (~90m) Prod. Rate: 10m/d/team  Excavation -730m 3 & lateral support. Prod. Rate: 160m3/day/team  Blinding lay ar
457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others)  Construct pedestrian street/ footpath Install central median  Concrete infill between profile barrier  Lay sub base  Road pavement  Install railing on top of retaining wall & street furniture  Part 3G - CH1189.4 to CH1229 North Abutment  Pre-drilling Works  Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.  Pile Testing (28d curing & 14 test) - 1 full-core to be carried out  Proof-drilling Works  Pile Loading Test  Drive sheetpile (~90m) Prod. Rate: 10m/d/team  Excavation ~780m3 & lateral support. Prod. Rate: 160m3/day/team  Blinding layer	53 days p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 24 days 24 days 24 days 14 days 80 days 42 days 7 days 16 days 9 days 6 days	24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 286 days 14 days 80 days 42 days 7 days 16 days 9 days 1 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020 April 29, 2020 August 5, 2020 September 23, 202 October 9, 2020 October 20, 2020 October 28, 2020 October 29, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 23, 2021 1 September 23, 2021 March 29, 2021 April 28, 2020 August 4, 2020 September 22, 2020 August 11, 2020 October 8, 2020 October 19, 2020 October 27, 2020 October 28, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 2021 September 17, 2021 January 21, 2022 May 4, 2020 May 18, 2020 D August 21, 2020 October 4, 2020 October 4, 2020 October 27, 2020 November 6, 2020 November 13, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020 August 20, 2020 October 10, 2020 October 10, 2020 October 26, 2020 November 5, 2020 November 12, 2020 December 7, 2020	0%	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 ays 0 days 0 days 2 days 2 days 2 days 0 ays 0 ays 2	days	Base s at (Bay 1 to 7) Prod Rate: 8d/bay/team - 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling - 8,372.91m3 within approach ramp to formation to  Verificity ducting laying (by others)  Construct pedestrian street/ footpath  Install central median  Concrete infill between profile barrier  Lay sub base  Read pavement  Verificity and the street furniture  Read pavement  Verificity and the street furniture  Per drilling Works  Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.  Pile Testing (28c curing & 14 test) - 1 full -core to be carried out  Proof-drilling Works  Prive sheetfile (~90m) Prod. Rate: 10m/d/team  Excavation -730m 3 & lateral support. Prod. Rate: 160m3/day/team  Blinding lay ar
457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474	formation level (160m3/day) considered time for SRT Placing of precast planting channel along approach ramp Utility ducting laying (by others)  Construct pedestrian street/ footpath Install central median  Concrete infill between profile barrier  Lay sub base  Road pavement  Install railing on top of retaining wall & street furniture  Part 3G - CH1189.4 to CH1229 North Abutment  Pre-drilling Works  Bored pile (8 numbers). Prod. Rate: 10d/pile/rig.  Pile Testing (28d curing & 14 test) - 1 full-core to be carried out  Proof-drilling Works  Pile Loading Test  Drive sheetpile (~90m) Prod. Rate: 10m/d/team  Excavation ~780m3 & lateral support. Prod. Rate: 160m3/day/team  Blinding layer  Base Slab	53 days p 24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 24 days 24 days 24 days 14 days 80 days 42 days 7 days 16 days 9 days 6 days 1 day 20 days	24 days 26 days 5 days 6 days 5 days 4 days 5 days 24 days 286 days 14 days 80 days 42 days 7 days 16 days 9 days 1 days	NA N	NA N	May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 202 September 17, 202 September 24, 202 April 15, 2020 April 15, 2020 April 29, 2020 August 5, 2020 September 23, 202 October 9, 2020 October 20, 2020 October 28, 2020 October 29, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 2021 1 September 23, 2021 March 29, 2021 April 28, 2020 August 4, 2020 September 22, 2020 August 11, 2020 October 8, 2020 October 19, 2020 October 27, 2020 October 28, 2020 November 20, 2020	January 22, 2021 May 22, 2021 July 27, 2021 July 26, 2021 August 25, 2021 August 31, 2021 September 7, 2021 September 13, 2021 September 17, 2021 January 21, 2022 May 4, 2020 May 18, 2020 D August 21, 2020 October 4, 2020 October 4, 2020 October 11, 2020 October 27, 2020 November 6, 2020 November 13, 2020 November 14, 2020	May 21, 2021 July 24, 2021 August 23, 2021 August 24, 2021 August 30, 2021 September 6, 2021 September 11, 202 September 23, 202 February 21, 2022 April 17, 2021 May 17, 2020 August 20, 2020 October 10, 2020 October 10, 2020 October 26, 2020 November 5, 2020 November 12, 2020 December 7, 2020	0%	ays 4 ays 1 ays 1 ays 1 ays 0 ays 0 ays 0 ays 0 ays 0 days 0 days 2 days 2 days 2 days 0 ays 0 ays 2	days	Base s ab (Bay 1 to 7) Frod Rate: 8d/bay/team - 1 team  Wall (Bay 1 to 7) 12d/bay/team - 1 team (KD3)  Backfilling ~8,372.91m3 within approach ramp to formation to the state of the state

Task	Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical F	Free	Time Risk	Total	
			Duration							% 9	Slack	Allowance	es Slack 2019	2020 2021 2022 2023
75	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	Complete 0%	0 days	(TRA) 1 days	H1 H 14 days Sun Septe	H2 H1 H2 H1 H2 H1 H2 H1 H.  eptember 22
76	Wall (0.5m thk). Prod. Rate: 14d/bay/team (KD2)	74 days	74 days	NA	NA	December 29, 2020		January 15, 2021	April 17, 2021			0 days	14 days	Wall (0.5m thk). Prod. Rate: 14d/bay/team (KD2)
7	Backfill and extract sheet pile	7 days	7 days	NA	NA	December 29, 2020		March 27, 2021	April 7, 2021			0 days	72 days	Backfill and extract sheet pile
78	Install bridge bearing	7 days	7 days	NA	NA	January 7, 2021	January 14, 2021	April 8, 2021	April 15, 2021		61 days		72 days	Install bridge bearing
79	Part 3C - CH1229 to CH1279	573 days	573 days	NA	NA NA	January 11, 2020	December 14, 202	· ·	December 29, 2021		7 days	o days	7 days	Part 3C - CH1229 to CH1279
80	Mobilization of plant and material	6 days	6 days	NA	NA NA	January 11, 2020	January 17, 2020	January 20, 2020	-			1 days	7 days	Mobilization of plant and material
31	Pre-drilling Works	14 days	14 days	NA	NA NA	March 21, 2020	April 7, 2020	May 14, 2020	May 29, 2020			0 days	40 days	Pre-drilling Works
82	Bored pile (3 numbers) @ CH1229. Prod. Rate:	36 days	36 days	NA NA	NA NA	March 21, 2020	May 8, 2020	May 14, 2020	June 24, 2020			0.5 days	40 days	Bored pile (3 numbers) @ CH1229, Prod. Rate: 12d/pile/rig.
02	12d/pile/rig.	30 uays	30 days	IVA	IVA	Widi Cii 21, 2020	Way 8, 2020	Iviay 14, 2020	Julie 24, 2020	0/6	o uays	U.5 days	40 days	
83	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 days	0.5 days	40 days	Pile Testing (14d curing & 14 test)
84	Proof-drilling Works	7 days	7 days	NA	NA	May 9, 2020	May 15, 2020	July 23, 2020	July 29, 2020	0% 2	26 days	0 days	75 days	Proof-drilling Works
85	Pile Loading Test	14 days	14 days	NA	NA	June 11, 2020	June 24, 2020	July 30, 2020	August 12, 2020	0% 1	1 day	0 days	49 days	Pile Loading Test
86	Pile Cap @ CH1229	64 days	64 days	NA	NA	June 26, 2020	September 9, 2020	August 13, 2020	September 23, 20	. 0% 1	12 days		12 days	Pile Cap @ CH1229
87	Drive sheetpile (~75m). Prod. Rate:	8 days	8 days	NA	NA	June 26, 2020	July 6, 2020	August 13, 2020	August 21, 2020	0%	0 days	0 days	40 days	Drive sheetpile (~75m). Frod. Rate. 10m/day/side/team
38	10m/day/side/team 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	0 days	0 days	40 days	Excavation ~755m3 & lateral support. Prod. Rate: 160m3/day/team
20	160m3/day/team	1 day	1 4	NI A	NA	Il., 12, 2020	Il., 12, 2020	A	A	00/	20 daa	0 40.00	40 days	Velinding layor
89	Blinding layer	1 day	1 day	NA	NA	July 13, 2020	July 13, 2020	August 28, 2020	August 28, 2020		28 days		40 days	Blinding layer
90	Pilecap structure	14 days	14 days	NA	NA	August 15, 2020	August 31, 2020	August 29, 2020	September 14, 202		0 days		12 days	Pilecap structure
91	Backfill and extract sheet pile	8 days	8 days	NA	NA			September 15, 2020				0 days	12 days	Backfill and extract sheet pile
92	Pier @ CH1229	48 days	48 days	NA	NA		-	September 24, 2020			0 days		12 days	Pier @ CH1225
93	Pre-drilling Works	14 days	14 days	NA	NA	January 18, 2020	January 31, 2020	January 30, 2020	February 12, 2020		0 days		12 days	Pre-drilling Works
94	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 days	0 days	10 days	Bored pile (3 numbers) @ CH1269. Prod. Rate: 10d/pile/rig.
95	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 days	0.5 days	34 days	Pile Testing (14d curing & 14 test)
96	Proof-drilling Works	7 days	7 days	NA	NA NA	March 7, 2020	March 13, 2020	May 19, 2020	May 25, 2020		27 days		73 days	Proof-drilling Works
17	Pile Loading Test	14 days	14 days	NA	NA NA	April 10, 2020	April 23, 2020	May 26, 2020	June 8, 2020			0 days	46 days	Rile Loading Test
8	Pile Cap @ CH1269	42 days	14 days 42 days	NA NA	NA NA	April 24, 2020	June 13, 2020	June 9, 2020	July 29, 2020		37 days	Juays	37 days	Pile Cap @ CH1269
_	• •				NA NA						•	O days		Drive sheetpile (~75m), Prod. Rate: 10m/day/side/team
99	Drive sheetpile (~75m). Prod. Rate: 10m/day/side/team	8 days	8 days	NA	INA	April 24, 2020	May 5, 2020	June 9, 2020	June 17, 2020	0%	0 days	0 days	37 days	Mary Street Prie (**/3111. 1 Pod. Pare 1011/day/stde/teath
00	Excavation ~1677m3 & lateral support. Prod. Rate: 160m3/day/team	11 days	11 days	NA	NA	May 6, 2020	May 18, 2020	June 18, 2020	July 2, 2020	0%	0 days	0 days	37 days	Excavation ~1677m3 & ateral support. Prod. Rate: 160m3/day/team
)1	Blinding layer	1 day	1 day	NA	NA	May 19, 2020	May 19, 2020	July 3, 2020	July 3, 2020	0%	0 days	0 days	37 days	Blinding layer
02	Pile Cap structure	14 days	14 days	NA	NA	May 20, 2020	June 4, 2020	July 4, 2020	July 20, 2020	0%	0 days	0 days	37 days	Pile Cap structure
03	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 days	0 days	37 days	Backfill and extract sheet pile
04	Pier @ CH1269	48 days	48 days	NA	NA	June 15, 2020	August 11, 2020	July 30, 2020	September 23, 202	0 0% 2	25 days	0 days	37 days	Pier @ CH1269
05	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% 1	11 days		11 days	Bridge deck between CH1229-1269 [DB-SQ1]
06	Falsework erection	7 days	7 days	NA	NA	November 9, 2020	November 16, 202	0 January 22, 2021	January 29, 2021	0% 5	50 days	0 days	61 days	Falsework erection
)7	Structure deck	28 days	28 days	NA	NA	January 19, 2021	February 23, 2021	February 1, 2021	March 8, 2021	0%	0 days	1 days	11 days	Structure deck
08	Prestressing	16 days	16 days	NA	NA	March 12, 2021	March 30, 2021	March 25, 2021	April 15, 2021		0 days		11 days	***Prestressing
99	Median barrier, utility through, parapet	45 days	45 days	NA	NA	March 31, 2021	May 27, 2021	May 10, 2021	July 3, 2021			0.5 days	30 days	Median-barrier, utility through, parapet
10	Utility ducting laying (by others)	14 days	14 days	NA	NA	May 28, 2021	June 12, 2021	September 25, 2021				0 days	100 days	Utility ducting laying (by others)
1	Street furniture (KD6)	21 days	21 days	NA	NA		December 14, 202		December 29, 2021			2 days	11 days	Street furniture (KD6)
12	Bridge deck between CH1189-1229 [DB-T2-SQ2]	64 days	64 days	NA	NA NA	March 31, 2021	June 19, 2021	April 16, 2021	July 3, 2021		11 days	2 4475	11 days	Bridge deck between CH1189-1229 [DB-T2-SQ2]
13	Falsework erection	7 days	7 days	NA	NA NA	March 31, 2021	April 10, 2021	April 16, 2021	April 23, 2021		•	0 days	11 days	Falsework erection
				NA	NA									Structure eleck
L4	Structure deck	28 days	28 days			April 12, 2021	May 14, 2021	April 24, 2021	May 28, 2021			1 days	11 days	1. Prestressing
.5	Prestressing	15 days	15 days	NA	NA	June 2, 2021	June 19, 2021	June 16, 2021	July 3, 2021			1 days	11 days	
L6	Median barrier, utility through, parapet	46 days	46 days	NA	NA	June 21, 2021	August 13, 2021	July 5, 2021	August 26, 2021		0 days		11 days	Median barrier, utility through, parapet
17	Utility ducting laying (by others)	14 days	14 days	NA	NA	August 14, 2021	August 30, 2021		October 12, 2021		0 days		35 days	Utility ducting laying (by others)
18	Street furniture	21 days	21 days	NA	NA	August 31, 2021		1 October 13, 2021	November 6, 2021		24 days	0 days	35 days	Street furniture
L9	Part 3D - CH1279 to CH1311	257 days	257 days	NA	NA	January 9, 2021	November 19, 202		December 2, 2021		11 days		11 days	Part 3D - CH1279 to CH1311
20	Bridge deck between CH1269-1314 [DB-SQ1]	73 days	73 days	NA	NA	January 9, 2021	April 10, 2021	January 22, 2021			11 days		11 days	Exidge deck between CH1269-1314 [DB-SQ1]
1	Falsework erection	8 days	8 days	NA	NA	January 9, 2021	January 18, 2021	January 22, 2021	January 30, 2021	0%	0 days	0 days	11 days	Falsework erection
22	Structure deck	28 days	28 days	NA	NA	January 19, 2021	February 23, 2021	February 1, 2021	March 8, 2021	0%	0 days	1 days	11 days	Structu <mark>re</mark> dec <mark>k</mark>
23	Prestressing	23 days	23 days	NA	NA	March 12, 2021	April 10, 2021	March 25, 2021	April 23, 2021	0%	0 days	0 days	11 days	The stressing
4	Median barrier, utility through, parapet	45 days	45 days	NA	NA	August 14, 2021	October 7, 2021	August 27, 2021	October 21, 2021	0%	0 days	2 days	11 days	Median barrier, utility through, parapet
25	Utility ducting laying (by others)	14 days	14 days	NA	NA	October 8, 2021	October 25, 2021	October 22, 2021	November 6, 2021	0%	0 days	1 days	11 days	Utility ducting laying (by others)
26	Street furniture (KD6)	22 days	22 days	NA	NA	October 26, 2021	November 19, 202	1 November 8, 2021	December 2, 2021	0%	0 days	0 days	11 days	Street furniture (KD6)
27	Part 3E - CH1311 to CH1372	407 days	407 days	NA	NA	March 7, 2020	July 22, 2021	March 19, 2020	October 23, 2021	0%	10 days		10 days	Part 3E - CH1311 to CH1372
28	Pre-drilling Works	14 days	14 days	NA	NA	March 7, 2020	March 20, 2020	March 19, 2020	April 1, 2020	0%	0 days	0	12 days	re-drilling Works
9	Bored pile (5 numbers) @ CH1314. Prod. Rate: 10d/pile/rig.	50 days	50 days	NA	NA	March 21, 2020	May 25, 2020	April 2, 2020	June 5, 2020		•	1 days	10 days	Bored pile (5 numbers) © CH1314. Prod. Rate: 10d/pile/rig.
0	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 days	1 days	10 days	Pile Testing (14d curing & 14 test)
31	Proof-drilling Works	7 days	7 days	NA	NA	May 26, 2020	June 1, 2020	July 4, 2020	July 10, 2020	0% 2	26 days	0 days	39 days	Proof-drilling Works
12	Pile Loading Test	14 days	14 days	NA	NA	June 28, 2020	July 11, 2020	July 11, 2020	July 24, 2020	0% 1	1 day	1 days	13 days	Pile Loading Test
33	Pile Cap @ CH1314	37 days	37 days	NA	NA	July 13, 2020	August 24, 2020	July 25, 2020	September 5, 2020	0% 1	11 days		11 days	Pile Cap @ CH131 <mark>4</mark>
34	Drive sheetpile (~75m). Prod. Rate:	8 days	8 days	NA	NA	July 13, 2020	July 21, 2020	July 25, 2020	August 3, 2020	0%	0 days	0 days	11 days	Drive sheetpile (~75 <mark>m</mark> ). Prod. Rate: 10m/day/side/team
35	10m/day/side/team Excavation ~888.81m3 & lateral support. Prod. Rate:	6 days	6 days	NA	NA	July 22, 2020	July 28, 2020	August 4, 2020	August 10, 2020	0% 0	0 days	0 days	11 days	₹Excavation ~888.81 m3 & lateral support. Prod. Rate: 160m3/day/tean
	160m3/day/team													
e: Revised F	Programme- Critical Task		М	lanual Task	Duration	i-only	Baseline Milestone	♦ Sun	nmary	Exter	rnal Tasks		Inactive Milestone	Baseline Summary Baseline Summary
	/01 with Progress   Critical Split   Split   Split		St	art-only	Baseline		Milestone	♦ Mar	nual Summary	Exter	rnal Milesto	one 🔷	Inactive Summary	
	as of 22-Sep-19 Critical Progress Tack Pro												* *	

Task Na	ame	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Progress Update as of Late Finish	Physical Fr	ee	Time Risk Total	
I d SK I N d	anie	Duration	Duration	Actual Start	Actual I IIIIsii	rian Start	Fidililiiiii	Late Start	Late HillsH	1 '		Allowances Slack 2019	2020 2021 2022 2023
6	Blinding layer	1 day	1 day	NA	NA	July 29, 2020	July 29, 2020	August 11, 2020	August 11, 2020	Complete 0% 0		(TRA) H O days 11 days	1
6 7	Pilecap structure	14 days		NA	NA NA	July 30, 2020	August 14, 2020	August 12, 2020				1 days 11 days	Suit September 22
3	Backfill and extract sheet pile	8 days	8 days	NA	NA	August 15, 2020	August 24, 2020	August 28, 2020	September 5, 2020			1 days 11 days	K Backfill and extract sheet pile
9	Agree Interface Coordination Plan with CKP-KTW	14 days	14 days	NA	NA	May 6, 2020	May 21, 2020	August 21, 2020	September 5, 2020		days		Agree Interface Coordination Plan with CKP-KTW (HY/2014/07)
	(HY/2014/07)	,	,			., ., .	., ,	, , , ,			,	, .	
10	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 days 11 days	Allow access to CKR-KTW contractor for sheet pile wall installation.
11	installation. PS App.1.18 2.7(A)( c) Pier @ CH1314	49 days	49 days	NA	NA	November 10, 2020	) January 8 2021	November 23, 2020	January 21, 2021	0% 0	days :	2 days 11 days	Pier @ CH1314
12	Pre-drilling Works	12 days	12 days	NA	NA	August 5, 2020	August 16, 2020	August 23, 2020	September 3, 2020			1 days 18 days	Pre-drilling Works
43	Bore pile (3 numbers) @ CH1351. Prod. Rate: 12d/pile/ri		36 days	NA	NA	August 17, 2020		0 September 4, 2020	October 17, 2020			1 days 16 days	Bore pile (3 numbers) @ CH1351. Prod. Rate: 12d/pile/rig
44	Pile Testing (14d curing & 14 test)	28 days	28 days	NA	NA	September 28, 202	0 November 2, 2020		February 3, 2021			0.5 days 77 days	Pile Testing (14d curing & 14 test)
45	Proof-drilling Works	7 days	7 days	NA	NA	September 27, 202	0 October 3, 2020	January 28, 2021	February 3, 2021	0% 30	days	0 days 123 days	Proof-drilling Works
46	Pile Loading Test	14 days	14 days	NA	NA	November 3, 2020	November 16, 2020	0 February 4, 2021	February 17, 2021	0% 0	days	0 days 93 days	File Loading Test
47	Pile Cap @ CH1351	36 days	36 days	NA	NA	November 17, 2020	December 30, 2020	0 February 18, 2021	March 31, 2021	0% 74	days	74 days	Pile Can @ CH 1351
48	Drive sheetpile (~75m). Prod. Rate:	8 days	8 days	NA	NA	November 17, 2020	November 25, 2020	0 February 18, 2021	February 26, 2021	0% 0	days	0 days 74 days	Drive sheetpile (~75m). Prod. Rate: 10m/day/side/team
10	10m/day/side/team Excavation ~755m3 & lateral support, Prod. Rate:	5 days	5 days	NA	NA	November 26, 2020	December 1, 2020	Eobruary 27, 2021	March 4, 2021	0% 0	days (	0 days 74 days	Excavation ~755m3 & lateral support. Prod. Rate: 160m3/day/tean
49	160m3/day/team	5 uays	5 uays	INA	INA	November 26, 2020	December 1, 2020	rebluary 27, 2021	Watch 4, 2021	0%	uays (	Judys 74 udys	Litatetti ja
50	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
51	Pile Cap structure	14 days	14 days	NA	NA	December 3, 2020	December 18, 2020	March 6, 2021	March 22, 2021	0% 0	days	0 days 74 days	Pile Cap structure
52	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	Backfill and extract sheet pile
53	Pier @ CH1351	48 days	48 days	NA	NA	January 9, 2021	March 9, 2021	April 1, 2021	June 1, 2021		-	0.5 days 67 days	Pier @ CH1351
54	Bridge deck between CH1314-1351	64 days	64 days	NA	NA	March 10, 2021	May 28, 2021	June 2, 2021	August 20, 2021		days		Wridge 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 days 67 days	False work erection
56	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			0 days 70 days	The striction of the control of the
58	Median barrier, utility through, parapet	24 days		NA NA	NA NA	May 29, 2021	June 26, 2021	August 26, 2021	September 23, 202			0.5 days 74 days	Median barrier, utility through, parapet    Utility ducting laying (by others)
59 60	Utility ducting laying (by others)  Street furniture	14 days 21 days	14 days 21 days	NA NA	NA NA	June 28, 2021 June 28, 2021	July 14, 2021 July 22, 2021	October 7, 2021	October 23, 2021  October 20, 2021		days		3 Street furniture
	Part 1 - CH1372 to CH1386	102 days	· ·	NA NA	NA NA	July 7, 2021	November 5, 2021	_ · · · · ·	November 9, 2021		days	0 days	Part 1 - CH1372 to CH1386
52	Bridge deck between CH1351-1386	64 days	64 days	NA	NA NA	July 7, 2021	September 19, 20.		September 20, 20.		days	0 days	Bridge deck between CH1351-1386
53	Falsework erection	7 days	7 days	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	July 15, 2021	August 16, 2021	July 15, 2021	August 16, 2021			1 days 0 days	Structure deck
55	Prestressing	15 days	15 days	NA	NA			_ · · · · ·			days	, ,	Prestressing
56	Median barrier, utility through, parapet	24 days	24 days	NA	NA		1 October 20, 2021	September 20, 2021		0% 0	days	1 days 0 days	Median barrier, utility through, parapet
67	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 days 3 days	Utility ducting laying (by others)
68	Street furniture	14 days	14 days	NA	NA	October 21, 2021	November 5, 2021	October 21, 2021	November 5, 2021	0% 0	days	1 days 0 days	Street furniture
69 <b>F</b>	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 days 0 days	Pre-drilling Works
71	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 days 0 days	Bored bile (8 numbers) @ CH1386 Prod. Rate: 12d/pile/rig.
72	12d/pile/rig. Pile Testing	30 days	30 days	NA	NA	March 1, 2021	April 7, 2021	March 1, 2021	April 7, 2021	0%	days	1 days 0 days	The Pile Testing
72 73	Proof-drilling Works	7 days	7 days	NA	NA		March 6, 2021	April 1, 2021	April 7, 2021		days (		Proof-drilling Works
74	Pile Loading Test	14 days	14 days	NA	NA	April 8, 2021	April 21, 2021	April 8, 2021	April 21, 2021		days	, ,	Pile Loading Test
75	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		Drive sheetpile (~9(0m) Prod. Rate: 10m/d/team
76	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			1 days 0 days	tixeavation ~1,344m3 & lateral support. Prod. Rate: 160m
	160m3/day/team												
77	Blinding layer	1 day	1 day	NA	NA	May 4, 2021	May 4, 2021	May 4, 2021	May 4, 2021			0 days	Blindir b la/er
78	Base Slab	12 days	,.	NA	NA	May 5, 2021	May 19, 2021	May 5, 2021	May 20, 2021		-	0 days	Base Sab
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			1 days 0 days	Wall (3.85m thk). Prod. Rate: 18d/bay/team
80	Wall (0.5m thk)	14 days	14 days	NA NA	NA NA	June 10, 2021	June 27, 2021	June 10, 2021	June 28, 2021			1 days 0 days	Install bridge bearing
81 82 <b>S</b>	Install bridge bearing  South Approach Ramp - CH1394-1444.7 - Total 8 bays (4	7 days <b>682 days</b>	7 days 682 days	NA NA	NA NA	June 28, 2021 October 21, 2019	July 6, 2021 February 7, 2022	June 28, 2021  August 11, 2020	July 6, 2021 March 1, 2022		days (	0 days 19 days	South Approach Ramp - CH1394-1444.7
-	bay/side)	002 uays	002 uays	NA .	IVA	October 21, 2013	rebluary 7, 2022	August 11, 2020	Warti 1, 2022	0/6	uays	15 uays	
33	Ground Monitoring Works	14 days	14 days	NA	NA	October 21, 2019	November 3, 2019	August 11, 2020	August 24, 2020	0% 18	7 days	0 days 295 days	■
34	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
35	Foundation Construction	90 days	90 days	NA	NA	May 21, 2020	September 4, 2020	September 5, 2020	December 22, 2020	0% 0	days	1 day 90 days	Foundation Construction
36	Drive sheetpile (~240m) Prod. Rate: 10m/d/team	24 days	24 days	NA	NA	September 5, 2020	October 5, 2020	December 23, 2020	January 22, 2021	0% 0	days	0.5 days 90 days	Trive sheetpile 1-241ml Prod. Rate: 10m/d/team
37	Excavation ~2,688m3 & lateral support. Prod. Rate:	18 days	18 days	NA	NA	October 6, 2020	October 27, 2020	January 23, 2021	February 16, 2021	0% 0	days	0 days 90 days	👗 Excavation ~2 688m3 🗴 lateral support. Prod. Rate: 160m3/day/team
38	160m3/day/team 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	May 11, 2021		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		-	1 day 90 days	Wall. Proc. 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	Backilling ~4,765.89m3 within approach ramp to form
	formation level (160m3/day) considered time for SRT	,	·								·		
2	Placing of precast planting channel along approach ramp		,.	NA	NA			November 6, 2021			•	1 days 0 days	Placing of precast planting channel along ap
93	Utility ducting laying (by others)	24 days		NA	NA			November 10, 2021				1 days 3 days	Utility ducting laying (by others)
94	Construct pedestrian street/ footpath	5 days	5 days	NA	NA			December 29, 2021			-	0 days 19 days	Construct pedestrian street/ footpath
95	Install central median	5 days	5 days	NA	NA		December 15, 2021		January 10, 2022		•	0 days 19 days	Install central median
96	Concrete infill between profile barrier	5 days	5 days	NA	NA	December 16, 2021	December 21, 2021	1 January 11, 2022	January 15, 2022	0%	days	0 days 19 days	Concrete infill between profile barrier
Revised Prog	gramme- Critical Task		M	anual Task	Duration	n-only	Baseline Milestone	♦ Sum	nmary	Extern	al Tasks	Inactive M	dilestone 💠 Baseline Summary
ED/2018/01	with Progress Critical Split Split		St.	art-only	Baseline	•	Milestone	♦ Man	nual Summary	Extern	al Mileston	e 🔷 Inactive S	
	of 22-Sep-19 Critical Progress Task Prog			nish-only									

Ta	sk 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 H1 H2 H1 H2 H1 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
9	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 basé
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/ footpath
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
70	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
8	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	ŢInstall street furniture
LO	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  NAUNITED STATE  NAUNITED STATE
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	<ul> <li>Mobilization</li> <li>Complete the Diveration of Existing Overhams Cable along the North Depressed Rd</li> </ul>
.4	along the North Depressed Rd	0 days	U udys	IVA	INA	October 15, 2019	October 15, 2019	Julie 23, 2020	Julie 23, 2020	070	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	CH1550 · CH1640
.8	Excavation - Prod Rate: 240m3/d/team. (~26,663m3). 1 team	112 days	112 days	NA	NA	December 24, 2019	iviay 15, 2020	September 2, 2020	January 16, 2021	U% (	0 days	1 days	203 days	Excavation - Prod Rate: 240m3/d/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@0m3/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 pipe laying. 1 team	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	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/hay/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
4	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	, karament work
6	Parapet installation	24 days		NA	NA	October 17, 2020		0 November 19, 2021				0.5 days	324 days	- Parapet 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 CH1720
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 Rate: 240 in 3/d/team. 1 team (10,926m3) (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 team
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	■ 本Backfill & extract sheet pile (CH1.560 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	∩ 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	, Revement 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	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		0 days	1 gays	33 days	Pumping Test CH1920 - 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	May 29, 2024 April 23, 2021		<b>53 days</b> 0 days	5 days	53 days 33 days	Excavation - Prod Rate: 240m3/d/team. 1 team (27,220m3)
*	(27,220m3)	11 / duys	11. days			55.556. 25, 2020				,,,		Juays	55 44,5	
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	Bock fill - Prof. 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	50 days	56 days	NA	NA	March 19, 2021	May 28, 2021	June 21, 2021	August 25, 2021	U%	0 days	1 uay	74 days	The pipe of the pi
8	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	Lister die Greency 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 (dy others)  ** Pavement world
2	Pavement work CH1800 - CH1850	5 days 199 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 <b>33 days</b>	o uays	340 days 33 days	CH1800 - CH1850
3	Excavation - Prod. Rate: 240m3/d/team. 1 team	82 days	- '	NA NA	NA NA	March 13, 2021 March 13, 2021	June 23, 2021	April 24, 2021 April 24, 2021	August 2, 2021		o days	1 davs	33 days	Excavation - Prod. Rate: 240m3/d/team. 1 team (19,656m
	(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	d Programme- Critical Task		Ma	anual Task	Duration-	-only	Baseline Milestone	♦ Sum	mary	Exte	rnal Tasks		Inactive Mile	ilestone 🌣 Baseline Summary 📙 💮
ED/20	18/01 with Progress Critical Split Split Split		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	Late Start	Progress Update as o	Physical		Time Risk	Total											
			Duration							%	Slack	Allowance	es Slack 2019	115	202	1	112	2021	112	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	Sun Septen	nber 22	H1	H2	H1	H2	se Slab - F	bays. Prod	12 H1 I Rate: 14d/te	earn/bay	include p
	pipe laying. 1 team																				Luc Ducal D		/4 1	4
		42 days	,.	NA	NA	August 2, 2021		1 September 29, 2021			- '	1 days	49 days							71111		ate: 14d/bay/		
		30 days	30 days	NA	NA NA	September 3, 2021	· ·	November 3, 2021	December 7, 2021		- '	1 days	49 days							TT	-	rod. Rate: 10d heet pile (CH:	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							11111111111111111		MSD Third Di	1111	
	Constractor for CH1720-CH1850 Pipe Laying	o uays	U days	NA	NA .	October 23, 2021	October 23, 2021	Widi Cii 1, 2022	Widi Cii 1, 2022	078	127 days		127 days								11000		.5.,,,,,,,	inig 5y5
	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							11 II I		ing (by others	s)	
	Pavement work	5 days	5 days	NA	NA	November 6, 2021	November 11, 2021	1 January 6, 2022	January 11, 2022	0%	0 days	1 day	49 days							Pavem	ent w <mark>ork</mark>			
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	L						Unde	erpass & So	outh Depresse	ed Road (	:H1850-2
	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 Woı	1 11 11 1						
	<u> </u>	15 days	,	NA	NA	January 29, 2020	February 14, 2020	April 16, 2020		0%	35 days		63 days			Mobiliz			materials					
<u>'</u>		90 days	90 days	NA	NA	March 27, 2020	July 18, 2020	May 6, 2020	,	0%	0 days		28 days					tion Cons						
		6 days	6 days	NA	NA	July 15, 2020	July 21, 2020	August 17, 2020		0%	0 days		28 days					1 11 11 1		material (s				
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				Drive	sneet pi	e ( Bbum)	Prod. Hat	te 10m/tean	n/day		
)	Pumping Test	21 days	21 days	NA	NA	September 2, 2020	September 25, 2020	0 October 7, 2020	October 31, 2020	0%	0 days	0 days	28 days				Pur	nping Te:	it 📗 📗					
L		349 days	349 days	NA	NA			1 November 2, 2020	January 28, 2022	0%	28 days	,	28 days							- CHIE	50 - 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					Excav	ation - Pr	oc Rate:	240m 3/d/te	eam. 1 team (	(23,154m	.3)
	(23,154m3)												-							.				
3	, , , , , ,	11 days	11 days	NA	NA	January 16, 2021	January 28, 2021	February 22, 2021	March 5, 2021	0%	- '	0 days	28 days				Ш			. Rate: 160	Jm3/d/tean	m (1,745m3)		
1	-	1 day	1 day	NA	NA	January 29, 2021	January 29, 2021	March 6, 2021	March 6, 2021	0%		0 days	28 days			<b>   </b>		Blind				44.4		nime is '
5	Base Slab - 3 bays. Prod. Rate: 14d/team/bay include pipe laying. 1 team	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			<b>   </b>		B	sse stab	ays. Pr	oa. Kate: 14	4d/team/bay	include	npe iayın
5		42 days	42 days	NA	NA	March 8, 2021	April 28, 2021	September 29, 2021	November 18, 2021	1 0%	0 days	0.5 days	168 days			<b>   </b>		4444	Wall - 3	ys Prod	. Rate: 14d/	/bay/team. 1	team	
	,,	,	,*			-,	,				.,-	1-	, , ,			<b>   </b>								
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			<b>   </b>			Top Slat	B bays.	Prod. Rate	: 10d/bay/tea	am. 1 tea	m
,	Emergency walkway & median barrier installation	18 daye	18 days	NA	NA	June 5, 2021	June 26, 2021	December 24 2024	January 17, 2022	0%	110 da	0 daye	168 days							, , , , , , , , , , , , , , , , , , ,	kway & ma	dian barrier i	nstallatio	on.
3	Emergency walkway & median parrier installation	18 days	18 days	NA	NA	June 5, 2021	June 26, 2021	December 24, 2021	January 17, 2022	0%	119 days	o days	168 days							Tilly wall	way & med	nan banner n	iiistaiiatio	"
)	Utility ducting laying (by others)	10 days	10 days	NA	NA	September 28, 2020	October 10, 2020	November 2, 2021	November 12, 2021	1 0%	0 days	0 days	324 days				_ ¥Ut	lity ducti	ng laying	(ky other:	5)			
)	Pavement work	5 days	5 days	NA	NA	November 12, 2021	November 17, 2021	I January 12, 2022	January 17, 2022	0%	0 days	0 days	49 days							Pavem	ent work			
	Parapet installation	10 days	10 days	NA	NA	November 18, 2021	November 29, 2021	l January 18, 2022	January 28, 2022	0%	0 days	0 days	49 days							Parap	et in <mark>s</mark> tallatio	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 - CH200	J0		
	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					****	Excuvation	Prod. F	kate: 240m?	3/d/team. 1 to	earn (16,	396m3)
	(16,396m3)									001	0.1	0.1	50.1						ou.					
	-	1 day	1 day	NA	NA	April 20, 2021	April 20, 2021	July 7, 2021	July 7, 2021	0%	- · ·	0 days	63 days						Billioning Billion	المام المام	c Drod Day	te: 14d/team/	/hay incl	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						Luse 3	зог 4 бау	s. Pieu. Nat	e. 14u/ team/	, Day IIICI	ide pipe
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 hays. P	od. Rate 1	4d/bay/team	ı. 1 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						Eme	gency wa	ikway & me	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	1 0%	0 days	0 days	324 days				ut	lity ducti	ng laying	(by others	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				¥Pa	vement v	vork,	<b>#  </b>     '				
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	oet installati	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							i Sc	uth Depres	ssed Road CH	12000-20	ŝ0 - 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	<del>d Mo</del> nit	oring Wo	rks						
	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				/lobilizat	on of pla	nt and ma	aterials				
	Foundation Construction	90 days	90 days	NA	NA	June 16, 2020	September 30, 2020	0 December 18, 2020	April 12, 2021	0%	72 days	0.5 days	154 days				Fot	ndation	Constructi	on 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					<del></del>			material (sh			
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					Drive	sheet pile	4 (180m) F	rod Rate 1	L0m/team/da	ay 📗	
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					Pur	nping Tes	4	, III I			
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						excapation	J Prod R	ate: 240rn3	3/d/team. 1 te	eann (8,95	6m3)
1	(8,956m3) Blinding	1 day	1 day	NA	NA	April 13, 2021	April 13, 2021	July 22, 2021	July 22, 2021	0%	41 days	0 days	82 days						Blinding		, III I			
) L	Base Slab - 3 bays. Prod. Rate: 14d/team/bay include pipe	1 day 40 days	· ·	NA NA	NA NA	June 3, 2021	July 21, 2021	July 23, 2021 July 23, 2021	September 7, 2021		41 days 0 days	0.5 days	41 days						<b>111</b>	Slah - R	pays Prod	Rate: 14d/tea	am/bav i	nclude ni
-	laying. 1 team	.o days	-o days		147.	June 3, 2021	July 21, 2021	July 23, 2021	Jeptember 7, 2021	070	o days	J.J uays	TI Guys							וון ווון	,,.,,.,			Pil
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						- III			e: 14d/bay/te	am. 1 tea	ım
	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							1111111111111111		median barr	rier instal	ation
	Utility ducting laying (by others)	10 days	10 days	NA	NA	September 28, 2020	October 10, 2020	November 2, 2021	November 12, 2021	1 0%	0 days	0 days	324 days			<b>   </b>	📱 🍍 Ut	lity ducti	ng Hyind	(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 worl			
	·	11 days	11 days	NA	NA	January 10, 2022	January 21, 2022		February 26, 2022		27 days	0 days	28 days							71	rapet install			
		208 days		NA	NA	June 19, 2021	-	November 22, 2021			1 day		1 day									oad D3 CH20	J60-2118.	93
		50 days	50 days	NA	NA	June 19, 2021	August 17, 2021		January 21, 2022			0 days	129 days						100		ng laying (b	y otners)		
<u> </u>		2 days	2 days	NA	NA	August 18, 2021	August 19, 2021	January 22, 2022	January 24, 2022		0 days		129 days							irp 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	,			
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	ı	<u> </u>		
3		6 days	6 days	NA	NA	August 31, 2021	September 6, 2021		February 14, 2022			0 days	129 days								1 11 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							istali cent	tral m <mark>edia</mark> n			
Revised Pr	ogramme- Critical Task		Ma	anual Task	Duration	-only	Baseline Milestone	♦ Sum	nmary	Ext	ternal Tasks		Inactive Mi	lestone 🔷		Baselin	Summary							
D/2018/0	1 with Progress   Critical Split   Split		Sta	art-only	Baseline		■ Milestone	♦ Man	nual Summary	Ex	ternal Milesto	one 🔷	Inactive Su	mmary		1	•							
	of 22-Sep-19 Critical Progress Task Progre			nish-only	Baseline																			

Ta		_	<b>.</b>			ni c	DI 5:	1 . 6	Progress Update as o	DI			
l'u	sk Name	Duration	Remaining Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Fre % Sla		sk Total ces Slack	2019 2020 2021 2022 2023
			Duration							Complete	(TRA)	Ces Slack	H1
5	Concrete infill between profile barrier	2 days	2 days	NA	NA	September 11, 2021	September 13, 202	1 February 19, 2022	February 21, 2022		ays 0 days	129 days	Sun September 22 Concrete infill between profile barrier
	Road pavement	5 days	5 days	NA	NA	January 10, 2022	January 14, 2022	February 22, 2022	February 26, 2022	0% 33	ays 0 days	34 days	Foad pavement
	Install street furniture	2 days	2 days	NA	NA	February 26, 2022	February 28, 2022	February 28, 2022	March 1, 2022	0% 1 da	y 0 days	1 day	Install street furniture
	Planned Completion for Section 1	0 days	0 days	NA	NA	March 1, 2022	March 1, 2022	March 1, 2022	March 1, 2022	0% 0 da	ys 0 days	0 days	Planned Completion for Section 1
	Section 2	325 days	325 days	NA	NA	April 22, 2020	May 26, 2021	May 14, 2020	June 2, 2021	0% 6 da	ys	6 days	Section 2
	Construction of Precast Box Culvert (at fabrication yard)	130 days	130 days	NA	NA	April 22, 2020	September 24, 2020	0 May 14, 2020	October 16, 2020	0% 7 da	ys 1 day	17 days	Construction of Fredast Box Culvert (at fabrication yard)
L	DCS Seawater Intake Box Culvert (Precast)	243 days		NA	NA	July 30, 2020	May 25, 2021	August 11, 2020	June 1, 2021	0% 6 d		6 days	INCS Seawater Intake Box Culvert (Precast)
2	Part 2A - CHB.30-83 (53m)	126 days		NA	NA	July 30, 2020	December 29, 2020			0% 10	-	10 days	Part 2A + GHB 30 83 (53m)
:	Temporary ELS & Excavation	30 days		NA	NA	July 30, 2020	August 28, 2020	August 11, 2020	September 9, 2020			12 days	Temporary EL\$ & Excavation
	Trim formation layer	30 days		NA	NA	August 29, 2020	October 5, 2020	· ·	October 16, 2020			10 days	Trim formation layer
5	Lowering precast box culvert (7 cells)	44 days		NA	NA	October 6, 2020	November 26, 2020		December 8, 2020	I		10 days	Lowering precast pole culvert (7 cells)
5	Remove struts and backfilling	26 days	- '	NA	NA		December 29, 2020		January 11, 2021			10 days	Remove struts and backfilling
7	Part 1 - CHB.5-30 (25m)	117 days		NA	NA	December 30, 2020		January 12, 2021	June 1, 2021	0% 6 d		6 days	Flort II - CHB.5-30 (25tn)
8	Temporary ELS & Excavation	31 days	, .	NA	NA	December 30, 2020		January 12, 2021	February 19, 2021			10 days	Temporary ELS & Excavation
9	Trim formation layer	26 days		NA	NA	February 5, 2021	March 10, 2021	February 20, 2021	March 22, 2021	0% 0 da		10 days	Trim ft rmation layer
)	Lowering precast box culvert (3 cells)	40 days	, .	NA	NA	March 11, 2021	April 29, 2021	March 23, 2021	May 12, 2021	0% 4 da		10 days	Lowering precast box culvert (3 cells)
L	Remove struts and backfilling	16 days		NA	NA	May 6, 2021	May 25, 2021	May 13, 2021	June 1, 2021	0% 0 da		6 days	Ramove struts and backfilling
2	Planned Completion for Section 2	1 day	- '	NA	NA	May 26, 2021	May 26, 2021	June 2, 2021	June 2, 2021	0% 0 da		6 days	Planned Completion for Section 2
	Section 3	408 days		NA	NA	June 16, 2020	October 28, 2021	June 20, 2020	May 29, 2024	0% 4 da		4 days	Section 3
4	Part 2C - Lift LT3 & LT4	291 days		NA	NA	June 16, 2020	June 8, 2021	June 20, 2020	May 29, 2024	0% 4 da		4 days	Fart IC - Lift LT3 & LT4
5	Mobilization of plant and materials	22 days		NA	NA	June 16, 2020	July 13, 2020	June 20, 2020	July 17, 2020	0% 0 da		4 days	
6	Foundation Construction	49 days		NA	NA	July 14, 2020	September 8, 2020	· · ·	September 12, 202			4 days	Foundation Construction
7	Slab and shaft	33 days	- '	NA	NA	September 9, 2020	· ·		October 23, 2020			4 days	Slab and shaft
8	E & M installation	65 days		NA	NA		May 13, 2021	February 27, 2021	May 18, 2021	0% 0 da		4 days	E & Milestallation
9	Lift installation (LT3 & LT4)	101 days		NA	NA	October 20, 2020	February 22, 2021		February 26, 2021		ys 5 days	4 days	Lift installation (LT3 & LT4)
0	CLP Meter Installation	0 days	/-	NA	NA	February 1, 2021	February 1, 2021	May 29, 2024		0% 121		1214 d	♦ CLP Meter Installation
1	EMSD Submission Form 5 for Lift Inspection	0 days	, .	NA	NA	March 1, 2021	March 1, 2021	October 5, 2021	<u> </u>	0% 0 da		218 days	ENISDISubmission Form 5 for Lift Inspection
12	EMSD Lift Inspection	0 days	, .	NA	NA	March 14, 2021	March 14, 2021	October 19, 2021	October 19, 2021			218 days	X EMSO Lift Inspection
3	Issuance of Lift Use Permit	0 days	/-	NA	NA	March 29, 2021	March 29, 2021	November 2, 2021	November 2, 2021	0% 213	days	218 days	Issuance of lift Use Permit
4	Testing & commissioning	21 days	21 days	NA	NA	May 14, 2021	June 8, 2021	May 20, 2021	June 12, 2021	0% 0 da	ys 1 days	4 days	Testing & commissioning
5	Footpath	27 days	- '	NA	NA	June 9, 2021	July 12, 2021	June 15, 2021	July 16, 2021	0% 0 da	ys 1 days	4 days	Footpeth
6	Open Space within Part 2C	90 days		NA	NA	July 13, 2021	October 28, 2021	July 17, 2021	November 2, 2021			4 days	Open Space within Part 2C
7	Planned Completion for Section 3	0 days	- '	NA	NA	October 28, 2021	October 28, 2021	November 2, 2021	November 2, 2021			4 days	Planned Completion for Section 3
-	Section 4 (Subject to Excision)	185 days		NA	NA	October 3, 2022	May 17, 2023	October 15, 2022	May 30, 2023	0% 10	-	10 days	Section 4 (S
19	Part 2E - Abandon of existing DCS	185 days		NA	NA	October 3, 2022	May 17, 2023	October 15, 2022	May 30, 2023	0% 0 da		10 days	Part 2E - Aba
50	Planned Completion for Section 4	0 days	0 days	NA	NA	May 17, 2023	May 17, 2023	May 30, 2023	May 30, 2023	0% 0 da	ys	10 days	Planned Cor
-	Section 5	303 days		NA	NA	June 20, 2020	June 28, 2021	June 27, 2020	July 5, 2021	0% 5 da		5 days	Section 5
2	Noise barrier fronting to 4B5 at Rd D3A & Bus Lay By ~120m	303 days	303 days	NA	NA	June 20, 2020	June 28, 2021	June 27, 2020	July 5, 2021	0% 5 da	ys	5 days	Noise barrier fronting to 4B\$ at Rd D3A & Bus Lay By
3	ELS & Excavation	33 days	33 days	NA	NA	June 20, 2020	July 30, 2020	June 27, 2020	August 5, 2020	0% 0 da	ys 2 days	5 days	ELS & Excavation
54	Noise barrier foundation	94 days		NA	NA	July 31, 2020	November 20, 2020		November 26, 2020			5 days	Noise barrier foundation
5	Frame & Panel installation (Night Work)	176 days		NA	NA	November 21, 2020		November 27, 2020			ys 8 days	5 days	Frame & Panel installation (Night Work)
6	Planned Completion for Section 5	0 days	, .	NA	NA	June 28, 2021	June 28, 2021	July 5, 2021	July 5, 2021		ys 0 days	5 days	Planned Completion for Section 5
	Section 6		1198.4 days		NA	May 16, 2019	May 30, 2023	May 16, 2019	May 29, 2024		days	297 days	Section 6
8	Fencing (15m/d) & Hoarding Erection (10m/d)	919 days		NA	NA	October 8, 2019		November 9, 2019	May 29, 2024		ays	28 days	Fencing (15m/d) & Hoa
9	Fencing - Part 1 (~768m)	51 days		NA	NA	October 21, 2019	December 18, 2019				ays 1 day	17 days	Fencing - Part 1 (~768m)
0	Hoarding - Part 1 (~55m)	6 days		NA	NA	November 19, 2019		· · · · · · · · · · · · · · · · · · ·	January 10, 2020		ys 0 days	37 days	Hoarding - Part 1 (~57m)
1	Fencing - Part 14 (~458m) - 4 team	12 days		NA	NA	June 2, 2020	June 15, 2020	June 12, 2020	June 26, 2020		ys 1 days	9 days	Fencing - Part 2A (~458 m) - 4 seam
2	Hoarding - Part 2A (~379m) - 4 team	12 days		NA	NA		June 15, 2020	June 12, 2020	June 26, 2020		ys 1 days	9 days	Hoarding - Part 2A (~379m) - 4 team
3	Fencing - Part 2B (~132m)	9 days		NA	NA		February 10, 2021		June 24, 2022		days 0 days	404 days	Fencing Part 28 (+132m)
4	Hoarding - Part 2C (~106m)	9 days		NA	NA	June 2, 2020	June 11, 2020	June 10, 2020			ys 1 days	7 days	Hoarding - Part 2C(+106m)
_	Hoarding - Part 2E ( 10611)	4 days	, .	NA NA	NA	October 3, 2022		January 27, 2023	January 31, 2023		ys 0 days	95 days	Hoarding - Part 2E (~37m
5 6	Fencing - Part 3A (~326m)	22 days	- '	NA	NA	October 14, 2022	November 8, 2022		March 3, 2023		ys 0.5 days	-	Fencing - Part 3A (~326)
7	Fencing - Part 3D (~29m)	2 days		NA	NA	December 2, 2019		· · · · · · · · · · · · · · · · · · ·	January 22, 2020		ays 0.3 days	40 days	Fencing - Part 3D (~29m)
8	Fencing - Part 3D (*29m)  Fencing - Part 3E (*23m)	2 days		NA	NA NA		December 9, 2019		* .		ays 0 days	80 days	Fencing - Part 3E (~23m)
_				NA	NA NA	October 8, 2022	October 13, 2022						Fencing - Part 3F (~62m)
9	Fencing - Part 3G (~60m)	5 days		NA NA	NA NA				February 6, 2023		ys 0 days	95 days	Fencing - Part 3G (~69m)
0	Fencing - Part 3( (~69m)	5 days	- '			December 2, 2019			March 16, 2020		ys 0 days	80 days	Fencing - Part 3I (~19m)
1	Fencing - Part 4 (~19m)	2 days	- '	NA	NA		December 3, 2019				ys 0 days	83 days	Fencing - Part 4 (~180m)
2	Fencing - Part 64 (~180m)	12 days	,	NA	NA	March 5, 2021	March 18, 2021	June 9, 2021	June 23, 2021		ays 0 days	77 days	Fencing - Part 6A (~19m)
3	Fencing - Part 6A (~19m)	2 days		NA	NA	November 1, 2019					ys 0 days	1355 d	Fencing - Part 6B (~19m)
4	Fencing - Part 6B (~23m)	2 days	,.	NA	NA	November 4, 2019					5 d 0 days	1355 d	
5	Hoarding - WA1 (~300m)	21 days	,	NA	NA	October 8, 2019	October 31, 2019				ys 0.5 days		Hoarding - WA1 (~300m)
6	Fencing (15m/d) & Hoarding Erection (10m/d) - Upon Works Completion	95 days	95 days	NA	NA	April 29, 2022	August 19, 2022	July 25, 2022	November 15, 2022	2 0% 72 0	ays	72 days	Fencing (15m/d) & Hoardin
7	Fencing - ~1437m	95 days	95 days	NA	NA	April 29, 2022	August 19, 2022	July 25, 2022	November 15, 2022	0% 0 d	ys 1 day	72 days	Fencing - ~1437m
8	Hoarding - ~260m	26 days	- '	NA	NA	April 29, 2022	May 28, 2022	October 17, 2022	November 15, 2022		ays 0.5 days		Hearding - ~260m
9	Demolition Work - Extg Fire Service Station				NA NA			August 16, 2019		0% 82		82 days	Demolition Work - Extg Fire Service Station
<i>y</i>			uays				, 51, 2020		, 25, 2020	J, 02 (	-1-	or adys	
Revise	d Programme- Critical Task			anual Task	Duration-	only	Baseline Milestone	Sum	nmary	External	asks	Ir	active Milestone   Baseline Summary
			Sta	art-only	Baseline		Milestone	♠ Man	nual Summary	External	Milestone 🔷	Īr	active Summary
	8/01 with Progress as of 22-Sep-19 Critical Split Split Split Critical Progress Task Progr			ish-only	Baseline S		Summary Progress		ect Summary	Inactive			eadline

Fask Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical I		Time Risk		2020 2021 2022
Ashasta Curren (DCCL 2.04(0))	O dave	Duration	August 16, 2010	A	August 16, 2010	August 22, 2010	August 16, 2010	August 22, 2010	Complete		Allowance (TRA)	H1	
Asbesto Survey (PS CI. 2.04(9))  Demolish of abandoned Fire Service Station	8 days 50 days	0 days 50 days	August 16, 2019 NA	August 23, 2019 NA	August 16, 2019 November 28, 2019	August 23, 2019  January 31, 2020	August 16, 2019 March 10, 2020	August 23, 2019 May 13, 2020		0 days 65 days	0 days 1 day	0 days 82 days	Sun September 22 Survey (PS CI. 2.04(9))  Demolish of abandoned Fire Service Station
Ground Investigation	50 days	50 days	NA	NA		9 January 29, 2020		July 9, 2020		131 days		131 days	F— Ground Investigation
GI Work	50 days	50 days	NA	NA	November 26, 2019	January 29, 2020	May 11, 2020	July 9, 2020	0%	131 days	0.5 days	131 days	GI Work
Rising Main	765 days		NA	NA	July 10, 2020	February 1, 2023	July 10, 2020	May 30, 2023		0 days		0 days	Rising Main
Part 1 - CHA660-1097.77 - 2x160mm dia (~438m)	146 days	146 days	NA	NA	July 10, 2020	January 2, 2021	July 10, 2020	January 2, 2021	0%	0 days	7 days	0 days	Part 1 - CHA661-1097.77 - 2x160mm dia (~438m)
Part 9A - CHA32-71 - 2x160mm dia (~39m) (KD5)	211 days	211 days	NA	NA	January 4, 2021	September 17, 202	21 January 4, 2021	September 17, 202	1 0%	0 days	30 days	0 days	Part 9A - CHA32-71 - 2x160mm dia (~39m) (KD
Part 9B Rising Main	211 days	211 days	NA	NA	January 4, 2021	September 17, 202	21 March 11, 2021	November 23, 202	1 00/	40 days	30 days	E4 days	Part 9B Rising Main
Part 3B - CHA418-443 - 2x160mm dia (~25m) (KD7)	365 days	- '	NA	NA NA	January 4, 2021 March 5, 2021	May 27, 2022	March 11, 2021	June 2, 2022		49 days 0 days	50 days	54 days 5 days	Part 3B - CHA418-443 - 2x160mr
Tartis	sos days	505 4475				, .	111010111111111111111111111111111111111			o days	50 days	Jacys	
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 - CHA0-363 & 71-363 - 2x160mm
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&443-4
Doub 24 CH452 CCO 2015Common dia (%200m)	CO dave	CO dava	NIA	NIA	Navambar 0, 2022	Fahruaru 1 2022	March 4 2022	May 20, 2022	00/	0 40	1 40	OF days	Part 3A - CH452-1
Part 3A - CH452-660 - 2x160mm dia (~208m)  Allow Access for EMSD third District Cooling System	69 days 0 days	69 days 0 days	NA NA	NA NA	November 9, 2022 February 1, 2023	February 1, 2023	March 4, 2023 May 30, 2023	May 30, 2023 May 30, 2023		0 days 118 days	1 day	95 days 118 days	Allow Access for
Contractor for DCS Pipeline Laying at Parts 3A, 3B, 8, 9 and	o days	o days	NA .	NO.	1 ebidary 1, 2023	rebruary 1, 2025	Way 30, 2023	Way 30, 2023	070	110 days		110 days	
9A					- 1 - 40 - 200				201				
Underground Drainage Procurement of Stormwater Drainage Pipes	<b>416 days</b> 90 days	<b>416 days</b> 90 days	NA NA	NA NA	February 16, 2021 February 16, 2021		March 5, 2021 March 5, 2021	September 24, 20. June 2, 2021		15 days 0 days		15 days	Procurement of Stormwater Drainage Pipes
Stormwater Drainage	308 days	308 days	NA NA	NA NA	May 17, 2021	May 28, 2022	June 3, 2021	September 24, 20.		14 days		14 days	Stormwater Drainage
CH1000 - CH1087 (~92.5m, 2 M/H)	16 days	16 days	NA	NA			1 November 24, 2021	December 11, 202		-	1 days	0 days	CH1000 - CH1087 (~92.5m, 2 M/H)
CH1087 - CH1189.4 (~210m, 9 M/H)	24 days	24 days	NA	NA	June 3, 2021	July 2, 2021	June 3, 2021	July 2, 2021			1 days	0 days	CH 1087 - CH1189.4 (~210m, 9 M/H)
CH1189.4 - CH1394 (~167m, 3 MH) - Bridge D3	24 days	24 days	NA	NA	May 29, 2021	June 26, 2021	September 11, 2021	October 11, 2021	0%	18 days	0.5 days	88 days	CH1189.4 - CH1394 (~167m, 3 MH) - Bridge D3
CH1394 - CH1444.7 (~40m, 3 M/H) - S. Ramp	21 days	21 days	NA	NA	July 20, 2021	August 12, 2021	October 12, 2021	November 5, 2021	0%	70 days	0 davs	70 days	CH1394 - CH1444.7 (~40m, 3 M/H) - S. Ramp
CH1444.7 - CH1560 (~222m, 10 M/H) - Rd D3	35 days	35 days	NA	NA	May 20, 2021	June 30, 2021	October 25, 2021	December 3, 2021		130 days		130 days	CH1444.7 - CH1560 (~222m, 10 M/H) - Rd D3
CH1560 - CH1720 (~239m, 8 M/H) - N.D. Rd	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
CH1720 - CH1920 (~450.7m, 13 M/H) Underpass	90 days	90 days	NA	NA	June 3, 2021	September 17, 202	21 May 5, 2022	August 19, 2022	0%	0 days	1 day	273 days	CH1720 - CH1920 (~450.7m, 13 M/H) Underpas
CH1920 - CH2000 (~160m, 6 M/H) S.D. Rd	14 days	14 days	NA	NA	September 18, 202	1 October 6, 2021	August 20, 2022	September 5, 2022	0%	0 days	0 days	273 days	II. CH1920 - CH2000 (~160m, 6 M/H) S.D. Rd
CH2000 - CH2060 (~84m, 2 M/H) - S.D. Rd	14 days	14 days	NA	NA	October 7, 2021	October 23, 2021	September 6, 2022				0 days	273 days	CH2000 - CH2060 (~84m, 2 M/H) - S.D. Rd
CH2060 - CH2118.93 (~50.7m, 2 M/H) - Rd D3	14 days		NA	NA	June 19, 2021	July 6, 2021	September 8, 2022			0 days		366 days	CH2060 - CH2118.93 (~50.7m, 2 M/H) - Rd D3
CH100 - CH147 (~169m, 5 M/H) - L12 Road	35 days	35 days	NA	NA	April 19, 2022	May 28, 2022	June 25, 2022	August 5, 2022	0%	0 days	0.5 days	57 days	CH100 - CH147 (~169m, 5 M/H)
Open Space & Promenade (~457m, 11 M/H)	70 days	70 days	NA	NA	January 19, 2022	April 14, 2022	March 30, 2022	June 24, 2022	0%	0 days	1 day	57 days	Open Space & Promenade (~457m,
Sewerage Drainage	392 days		NA	NA	March 16, 2021	July 11, 2022	April 4, 2021	September 16, 20.		15 days		15 days	Sewerage Drainage Progrement of Sewerage Pipes
Procurement of Sewerage Pipes	90 days	90 days	NA	NA	March 16, 2021	June 13, 2021	April 4, 2021	July 2, 2021		19 days	4 -1	19 days	CH1000 - CH1087 (~68m, 3 M/H)
CH1000 - CH1087 (~68m, 3 M/H) CH1087 - CH1189.4 (~47m, 1 no M/H)	18 days 12 days	18 days 12 days	NA NA	NA NA	July 3, 2021	July 16, 2021	1 November 22, 2021 July 3, 2021	December 11, 202 July 16, 2021			1 days 1 days	0 days	CH1000 - CH1007 (~0011, 3 M/H)
CH100 - CH1185.4 ( 47HI, 1 HO M/H)  CH100 - CH147 (~156m, 6 M/H) - L12 Road	35 days	35 days	NA	NA	May 30, 2022	July 10, 2021 July 11, 2022	August 6, 2022	September 16, 202		0 days		57 days	GH100 - CH147 (~156m, 6 M/
Underground Watermain	392 days	392 days	NA	NA	May 29, 2021	September 19, 20.		October 14, 2022		20 days	,	20 days	Underground Watermain
Fresh Watermain	310 days	310 days	NA	NA	May 29, 2021	June 13, 2022	July 17, 2021	September 22, 20.	0%	40 days		40 days	Fresh Watermain
CH1000 - CH1087 (~191m) Rd D3	20 days	20 days	NA	NA	August 31, 2021	September 23, 202		September 23, 202		0 days	1 days	0 days	CH1000 - CH1087 (~191m) Rd D3
CH1087 - CH1189.4 (~212m) - N. Ramp	4 days	4 days	NA	NA	July 17, 2021	July 21, 2021	July 17, 2021				0 days	0 days	CH1189.4 (~212m) - N. Ramp CH1189.4 - CH1394 (~409.2m) - Bridge D3
CH1189.4 - CH1394 (~409.2m) - Bridge D3 CH1394 - CH1444.7 (~101.4m) - S. Ramp	40 days 10 days	40 days 10 days	NA NA	NA NA	May 29, 2021 June 1, 2021	July 16, 2021 June 11, 2021	August 21, 2021 October 9, 2021	October 8, 2021 October 21, 2021		0 days 0 days	0.5 days 0 days	70 days 108 days	CH1394 (~101.4m) - Bridge Us
CH1444.7 - CH1560 (~165m) - Rd D3	18 days	18 days	NA	NA	June 1, 2021 June 25, 2021	July 16, 2021	October 19, 2021	November 8, 2021			0 days	95 days	CH14444.7 - CH1560 (~1.65m) - Rd D3
CH1720 - CH1920 (~25m) - Underpass	2 days	2 days	NA	NA			21 September 19, 2022			0 days		297 days	7CH1720 - CH1920 (~25m) - Underpass
CH2060 - CH2118.93 (~47m) - Rd D3	2 days	2 days	NA	NA	July 2, 2021	July 3, 2021	September 21, 2022	September 22, 202	2 0%	69 days	0 days	366 days	CH2060 - CH2118.93 (~47m) - Rd D3
CH100 - CH147 (~280m) - L12 Road	28 days	28 days	NA	NA	May 11, 2022	June 13, 2022	July 5, 2022			0 days		45 days	
Open Space & Promenade (~1,093m)	110 days	- '	NA	NA	December 22, 2021	-	January 18, 2022	June 2, 2022		0 days	1 day	20 days	Open Space & Promenade (~1,09)
Salt Watermain  CH1000 - CH1087 (~157m) Rd D3	<b>390 days</b> 15 days	<b>390 days</b> 15 days	NA NA	NA NA	June 1, 2021 August 31, 2021	September 19, 20. September 16, 202		October 14, 2022 September 16, 202		20 days 0 days	1 days	20 days 0 days	Salt Watermain  CH1000 - CH1087 (~157m) Rd D3
CH1000 - CH1087 (*157m) Rd D3  CH1087 - CH1189.4 (*218m) - N. Ramp	4 days	4 days	NA NA	NA NA	July 22, 2021	July 26, 2021	July 22, 2021				0 days	0 days	CH 1087 - CH 1189.4 (~218m) - N. Ramp
CH1189.4 - CH1394 (~409.2m) - Bridge D3	40 days	40 days	NA	NA	June 1, 2021	July 19, 2021	August 24, 2021	October 11, 2021		0 days		70 days	CHI.189.4 - CH1394 (~409.2m) - Bridge D3
CH1394 - CH1444.7 (~101.4m) - S. Ramp	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
CH1444.7 - CH1560 (~165m) - Rd D3	18 days	18 days	NA	NA	July 17, 2021	August 6, 2021	November 9, 2021				0 days	95 days	G-1444.7 - CH1560 (~165m) - Rd D3
CH1720 - CH1920 (~25m) - Underpass	2 days	2 days	NA	NA			21 September 21, 2022			0 days		297 days	CH1720 - CH1920 (~25m) - Underpass
CH2060 - CH2118.93 (~47m) - Rd D3	2 days	2 days	NA NA	NA NA			21 September 23, 2022			24 days		297 days	CH2060 - CH2118.93 (~47m) - Rd D3
CH100 - CH147 (~455m) - L12 Road  Open Space & Promenade (~1,093m)	45 days 110 days	45 days 110 days	NA NA	NA NA	June 14, 2022 May 11, 2022	August 5, 2022 September 19, 202	August 6, 2022 22 June 4, 2022	September 28, 202 October 14, 2022		0 days 0 days		45 days 20 days	Open Space & Promenade
Irrigation System	337 days		NA	NA	June 25, 2021	August 10, 2022		October 5, 2022		17 days	,	17 days	Irrigation System
CH1000 - CH1087 (~87m) Rd D3	5 days	5 days	NA	NA		-	21 September 17, 2021			0 days	0 days	0 days	CH1000 - CH1087 (~87m) Rd D3
CH1087 - CH1189.4 (~205m) - N. Ramp	9 days	9 days	NA	NA	July 16, 2021	July 26, 2021	July 16, 2021	July 26, 2021	0%	0 days	0 days	0 days	CH1087 - CH1189.4 (~205m) - N. Ramp
CH1189.4 - CH1394 (~409.2m) - Bridge D3	7 days	7 days	NA	NA	June 25, 2021	July 3, 2021	October 4, 2021	October 11, 2021		13 days		83 days	CHI1894 - CH1394 (~409.2m) - Bridge D3
CH1394 - CH1444.7 (~101.4m) - S. Ramp	3 days	3 days	NA	NA	June 25, 2021	June 28, 2021	November 3, 2021			108 days		108 days	CH1444.7 (~101.4m) - S. Ramp CH1444.7 - CH1560 (~175m) - Rd D3
CH1444.7 - CH1560 (~175m) - Rd D3	4 days	4 days	NA NA	NA NA	August 7, 2021	August 11, 2021 October 11, 2021		December 3, 2021		95 days		95 days	CH1920 - CH2000 (~160m) 5.D. Rd
CH1920 - CH2000 (~160m) S.D. Rd	4 days	4 days	INA	INA	October 7, 2021	October 11, 2021	September 19, 2022	.   September 22, 202	. ∠ U70	10 days	o udys	283 days	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ed Programme- Critical Task 18/01 with Progress Critical Split Split			lanual Task	Duration-	-only	Baseline Milestone		nmary		ernal Tasks		Inactive Milesto	
L8/01 with Progress   Critical Split		St.	tart-only	Baseline		Milestone	Man	nual Summary	Evte	ernal Milestor	ne 👄	Inactive Summ	mary

	sk Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish L	ate Start	Late Finish	Physical Fr	ree Ti	ime Risk Total	
			Duration							-	lack Al	llowances 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 Se	ontombor 22 2022	September 24, 2022	Complete 0		RA) days 273 days	H1 H2   H1 H2   H2 H1 H2   H2 H1 H2   H3 H1 H2   H3 H2   H3
2	CH2060 - CH2118.93 (~100m) - Rd D3	3 days	3 days	NA	NA NA	October 23, 2021 October 27, 2021	· · · · · · · · · · · · · · · · · · ·		September 28, 2022		28 days 0		
	CH100 - CH147 (~173m) - L12 Road	4 days	4 days	NA	NA	August 6, 2022		eptember 29, 2022				days 45 days	
	Underground pump house next to underpass	168 days	168 days	NA	NA	June 29, 2021		ugust 7, 2021			3 days	33 days	s Underground pump house next to underpass
5	Underground pump house structure	90 days	90 days	NA	NA	June 29, 2021	October 15, 2021 A	ugust 7, 2021	November 23, 2021	0% 0	days 4	days 33 days	
6	E&M installation	60 days	60 days	NA	NA	October 16, 2021	December 24, 2021 N	lovember 24, 2021	February 8, 2022	0% 0	days 3	days 33 days	
7	Testing and Commissioning	18 days	18 days	NA	NA	December 28, 2021	January 18, 2022 Fe	ebruary 9, 2022	March 1, 2022	0% 33	3 days 1	days 33 days	
8	Salt Water Pumping Station	689 days	689 days	NA	NA	September 15, 20	January 6, 2023 Ju	uly 23, 2022		0% 11	14 days	114 days	
9	ELS & Excavation	60 days	60 days	NA	NA	July 13, 2021	September 20, 2021 Ju	•			4 days 1		
)	Structure	90 days	90 days	NA	NA	October 9, 2021		october 5, 2022	· · ·		days 1		
1	Finishing work and fitting out  Ironmongery work	60 days 24 days	60 days	NA NA	NA NA	January 27, 2022 April 12, 2022		anuary 30, 2023 pril 14, 2023	<u> </u>			day 299 days 5 days 299 days	
2	E&M installation & ABWF work	90 days	24 days 90 days	NA	NA NA	January 27, 2022		anuary 19, 2023			days 0.	· · · · · · · · · · · · · · · · · · ·	
4	Testing and Commissioning	14 days	14 days	NA	NA	May 20, 2022		May 13, 2023			93 days 0		
5	WSD Form 542 Submission	0 days	0 days	NA	NA		September 15, 2020 M				93 days	958 days	
5	WSD Form 46 Part I & II Submission	0 days		NA	NA	March 27, 2021		May 1, 2023			53 days	765 days	
	WSD Form 46 Part 46 Part IV Submission	0 days	0 days	NA	NA	March 15, 2022		May 1, 2023			68 days	412 days	
	CLP Meter Installation	0 days	0 days	NA	NA	June 19, 2022	June 19, 2022 M	Лау 1, 2023	May 1, 2023	0% 17	72 days	316 days	/S CLP Meter Installation
9	FSD Form 501 Submission for FS Inspection	0 days	0 days	NA	NA	December 8, 2022	December 8, 2022 M	May 1, 2023	May 1, 2023	0% 0	days	144 days	
)	FSD Inspection	0 days	0 days	NA	NA	December 22, 2022	December 22, 2022 M	May 16, 2023	May 16, 2023	0% 0	days	144 days	
L	Issuance of FS Certificate	0 days	,	NA	NA			May 30, 2023			44 days	144 days	
!	Sewage Pumping Station	689 days	689 days	NA	NA	September 15, 20		lovember 26, 2021			14 days	114 days	
3	ELS & Excavation	60 days	60 days	NA	NA	July 13, 2021	September 20, 2021 N		February 10, 2022		days 1		
	Structure	90 days	90 days	NA	NA	September 21, 202		ebruary 11, 2022			days 1		
	Finishing work and fitting out	60 days	60 days	NA NA	NA NA	January 11, 2022		une 9, 2022	August 18, 2022		days 1	· · · · · ·	
7	Ironmongery work  E&M installation & ABWF work	24 days 90 days	24 days 90 days	NA NA	NA NA	March 25, 2022 January 11, 2022		ugust 19, 2022 une 1, 2022	September 16, 2022 September 16, 2022		3 days 0.5 9 days 1	· · · ·	
3	Testing and Commissioning	14 days	14 days	NA	NA NA	July 12, 2022		eptember 17, 2022			2 days 0		
	WSD Form 542 Submission	0 days		NA	NA	September 15, 2020		May 1, 2023			93 days	958 days	
	WSD Form 46 Part I & II Submission	0 days	0 days	NA	NA	March 27, 2021		May 1, 2023			53 days	765 days	
	WSD Form 46 Part 46 Part IV Submission	0 days	0 days	NA	NA	March 15, 2022		May 1, 2023			68 days	412 days	
	CLP Meter Installation	0 days	0 days	NA	NA	June 19, 2022	June 19, 2022 N	Лау 1, 2023			72 days	316 days	
3	FSD Form 501 Submission for FS Inspection	0 days	0 days	NA	NA	December 8, 2022	December 8, 2022 M	May 1, 2023	May 1, 2023	0% 0	days	144 days	rs FSD Form 501 Submission
'4	FSD Inspection	0 days	0 days	NA	NA	December 22, 2022	December 22, 2022 M	Лау 16, 2023	May 16, 2023	0% 0	days	144 days	/S FSD Inspection
75	Issuance of FS Certificate	0 days	0 days	NA	NA	January 6, 2023	January 6, 2023 M	May 30, 2023	May 30, 2023	0% 14	44 days	144 days	
76	Seawater Intake Box Culvert (~169m)		042 -	NA	NA								Seawater Intake Box Culv
		812 days				March 20, 2020	December 10, 2022 A	•	December 10, 2022		days	0 days	
7	Part 4 - CHA.0-79 (79m)	440 days	440 days	NA	NA	June 24, 2021	December 10, 2022 Ju	une 24, 2021	December 10, 2022	0% 0	days	0 days	Part 4 - CHA.0-79 (79m)
3	Temporary ELS & Excavation	<b>440 days</b> 24 days	<b>440 days</b> 24 days	NA NA	NA NA	June 24, 2021 June 24, 2021	December 10, 2022 July 22, 2021 July 22, 2021	une 24, 2021 une 24, 2021	<b>December 10, 2022</b> July 22, 2021	<b>0% 0</b> 0 0	days 1	0 days days 0 days	Part 4 - CHA.0-79 (79m) Temporary ELS & Exca /ation
3	Temporary ELS & Excavation Base Slab (12d/bay)	440 days 24 days 96 days	<b>440 days</b> 24 days 96 days	NA NA NA	NA NA NA	June 24, 2021 June 24, 2021 July 23, 2021	December 10, 2022 July 22, 2021 July	une 24, 2021 une 24, 2021 uly 23, 2021	December 10, 2022 July 22, 2021 November 15, 2021	0% 0 0% 0 0% 0	days 1 days 5 days	0 days days 0 days days 0 days	Temporary ELS & Exca /ation Base Slab (12d/bay)
3	Temporary ELS & Excavation  Base Slab (12d/bay)  Wall (14d/bay)	440 days 24 days 96 days 112 days	440 days 24 days 96 days 112 days	NA NA NA	NA NA NA	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202	December 10, 2022 July 22, 2021 July 28, 2021 July 29, 2021 July 2022 September 15, 2022 September 2022 Septemb	une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021	December 10, 2022 July 22, 2021 November 15, 2021 February 7, 2022	0%         0           0%         0           0%         0           0%         0           0%         0	days 1 days 5 days 5 days 5 days	0 days days 0 days days 0 days days 0 days	Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay)
B ) ) L	Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay)	440 days 24 days 96 days 112 days 160 days	440 days 24 days 96 days 112 days 160 days	NA NA NA NA	NA NA NA NA	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022	December 10, 2022 July 22, 2021 July 22, 2021 November 15, 2021 July February 7, 2022 St. August 19, 2022 202	une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021 ebruary 8, 2022	December 10, 2022 July 22, 2021 November 15, 2021 February 7, 2022 August 19, 2022	0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 1 days 5 days 5 days 8 days 8	days 0 days	Temporary ELS & Exca /ation Base Slab (12d/bay)
	Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay) Remove struts and backfilling	440 days 24 days 96 days 112 days 160 days 18 days	440 days 24 days 96 days 112 days 160 days 18 days	NA NA NA	NA NA NA NA NA	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022 August 20, 2022	December 10, 2022 July 22, 2021 July 22, 2021 July 20, 2021 July 20, 2022 September 9, 2022 August 19, 2022 Au	une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021 ebruary 8, 2022 uugust 20, 2022	December 10, 2022 July 22, 2021 November 15, 2021 February 7, 2022 August 19, 2022 September 9, 2022	0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 1 days 5 days 5 days 8 days 1 da	0 days days 0 days	Temporary ELS & Exca/ation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay)
8 9 0 1 2 3	Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay)	440 days 24 days 96 days 112 days 160 days	440 days 24 days 96 days 112 days 160 days	NA NA NA NA NA	NA NA NA NA	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022 August 20, 2022 September 12, 20	December 10, 2022 July 22, 2021 July 22, 2021 November 15, 2021 July February 7, 2022 St. August 19, 2022 202	une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021 ebruary 8, 2022 uugust 20, 2022 eptember 12, 2022	December 10, 2022 July 22, 2021 November 15, 2021 February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022	0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 1 days 5 days 5 days 8 days 1 days days days 1 days	days 0 days	Temporary ELS & Exca /ation Base Slab (12d/pay) Wall (14d/bay) Top Slab (20d/bay) Remove struts and backfilling
8 9 0 1 2 3 4	Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay) Remove struts and backfilling Precast Installation	440 days 24 days 96 days 112 days 160 days 18 days 76 days	440 days 24 days 96 days 112 days 160 days 18 days 76 days	NA NA NA NA NA NA	NA NA NA NA NA NA	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022 August 20, 2022 September 12, 20 September 12, 202.	December 10, 2022 July 22, 2021 July 22, 2021 July 20, 2021 July 20, 2022 September 9, 2022 A December 10, 2022 September 10, 2022 September 9, 2022 September 9, 2022 September 10, 2022 September 20, 202	une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021 ebruary 8, 2022 uugust 20, 2022 eptember 12, 2022 eptember 12, 2022	December 10, 2022 July 22, 2021 November 15, 2021 February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022	0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 1 days 5 days 5 days 8 days 1 days days days 1 days	0 days days 0 days	Temporary ELS & Exca vation Base Slab (12d/pay) Wall (14d/bay) Top Slab (20d/bay) Remove struts and backfilling Precast Installation
3 9 0 1 1 2 3 3 4	Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days	440 days 24 days 96 days 112 days 160 days 18 days 76 days	NA NA NA NA NA NA	NA NA NA NA NA NA NA	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022 August 20, 2022 September 12, 20 September 12, 202. October 14, 2022	December 10, 2022 July 22, 2021 July 22, 2021 July 22, 2021 July 20, 2022 September 9, 2022 A December 10, 2022 September 10, 2022 September 13, 2022 September 14, 2	une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021 ebruary 8, 2022 uugust 20, 2022 eptember 12, 2022 eptember 12, 2022 october 14, 2022	December 10, 2022 July 22, 2021 November 15, 2021 February 7, 2022 August 19, 2022 September 9, 2022 December 10, 2022 October 13, 2022	0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days 1 days 5 days 5 days 8 days 1 days day	O days           days         0 days	Temporary ELS & Exca vation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection
8 9 0 1 1 2 2 3 3 4 5 5 6 6	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	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days	NA	NA	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022 August 20, 2022 September 12, 20 September 12, 202. October 14, 2022 October 31, 2022	December 10, 2022 Ja July 22, 2021 Ja November 15, 2021 Ja February 7, 2022 S August 19, 2022 F September 9, 2022 A December 10, 2022 S October 13, 2022 S October 29, 2022 O November 23, 2022 O	une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021 ebruary 8, 2022 uugust 20, 2022 eptember 12, 2022 eptember 12, 2022 october 14, 2022 october 31, 2022	December 10, 2022 July 22, 2021 November 15, 2021 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%         0           0%         0	days 1 days 5 days 5 days 8 days 1 days days 1 days days 1	O days           days         0 days	Temporary ELS & Exca /ation  Base Slab (12d/bay)  Wall (14d/bay)  Top Slab (20d/bay)  Remove struts and backfilling  Precast Installation  Pling platform erection  Remove of piling platform
3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	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	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days	NA N	NA	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022 August 20, 2022 September 12, 20 September 14, 2022 October 31, 2022 November 24, 2022	December 10, 2022 July 22, 2021 July 22, 2021 July 22, 2021 July 22, 2021 July 20, 2022 September 9, 2022 A December 10, 2022 Scotober 13, 2022 Scotober 29, 2022 O November 23, 2022 O November 29, 2022 November 29, 2022 N	une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021 ebruary 8, 2022 uugust 20, 2022 eptember 12, 2022 eptember 12, 2022 ectober 14, 2022 ectober 31, 2022 dovember 24, 2022	December 10, 2022 July 22, 2021 November 15, 2021 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%         0           0%         0           0%         0	days 1 days 5 days 5 days 8 days 1 days 0 days 0 days 1 days 0 da	O days           days         0 days	Temporary ELS & Exca /ation  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  Install precast seawall inta
3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	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	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days	NA N	NA	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022 August 20, 2022 September 12, 20 September 14, 2022 October 14, 2022 November 24, 2022 November 30, 2022	December 10, 2022 July 22, 2021 July 22, 2021 July 22, 2021 July 22, 2021 July 20, 2022 February 7, 2022 Feb	une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021 ebruary 8, 2022 uly 23, 2022 eptember 12, 2022 eptember 12, 2022 eptember 14, 2022 elotober 14, 2022 elotober 31, 2022 elovember 24, 2022 elovember 30, 2022	December 10, 2022 July 22, 2021 November 15, 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	0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days         1           days         1           days         5           days         5           days         8           days         1           days         1           days         1           days         1           days         0           days         0           days         0	O days           days         0 days	Temporary ELS & Exca /ation  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  Install precast seawall inta
3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	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)	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 348 days	NA N	NA N	June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022 August 20, 2022 September 12, 202. September 14, 2022 October 14, 2022 October 31, 2022 November 24, 2022 April 22, 2020	December 10, 2022 July 22, 2021 July 22, 2021 July 22, 2021 July 22, 2021 July 22, 2022 February 7, 2022 September 9, 2022 A December 10, 2022 Scotober 13, 2022 Scotober 29, 2022 ONovember 23, 2022 ONovember 29, 2022 November 10, 2022 Nune 23, 2021 A	une 24, 2021 une 24, 2021 une 24, 2021 uly 23, 2021 eptember 20, 2021 ebruary 8, 2022 ungust 20, 2022 eptember 12, 2022 eptember 14, 2022 ectober 14, 2022 ectober 31, 2022 dovember 24, 2022 dovember 30, 2022 upril 1, 2021	December 10, 2022 July 22, 2021 November 15, 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	0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0	days         1           days         1           days         5           days         5           days         8           days         1           days         1           days         1           days         0           days         0           days         0           days         0           days         0	O days           days         0 days           0 days         0 days           0 days         0 days	Temporary ELS & Exca /ation 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 Install precast seawall inta Reinstate seawall
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eviser	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) Remove struts and backfilling Part 1 - CH89-169 (80m) Temporary ELS & Excavation Base Slab (12d/bay) Wall (14d/bay) Top Slab (20d/bay) Remove struts and backfilling Elevated Landscape Deck Agree Interface Coordination Plan with KL/2014/01 Contractor Part 1 - CH1919-2007 (88m) 4 bays Pier (4sets x 3nos) - 15d/set. 1 team Falsework erection	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days 5 days 10 days 14 days 12 days 14 days 12 days 14 days 12 days 14 days 20 days 6 days 24 days 96 days 112 days 112 days 14 days 96 days 14 days 96 days 15 days 160 days 160 days 165 days 60 days	440 days 24 days 96 days 112 days 160 days 18 days 76 days 26 days 14 days 21 days 348 days 14 days 12 days 14 days 12 days 14 days 12 days 16 days 17 days 18 days 19 days 19 days 10 days 19 days 10 days 10 days 110 days 110 days 1110 days 1110 days 1110 days 11110 days	NA N	NA N	June 24, 2021 June 24, 2021 June 24, 2021 July 23, 2021 September 20, 202 February 8, 2022 August 20, 2022 September 12, 20. September 12, 20. October 14, 2022 October 31, 2022 November 30, 2022 April 22, 2020 August 17, 2020 May 24, 2021 June 17, 2021 March 20, 2020 April 22, 2020 May 24, 2021 June 22, 2020 November 5, 2020 May 16, 2019 May 16, 2019 April 17, 2021 April 17, 2021 June 30, 2021	December 10, 2022 July 22, 2021 July 22, 2021 July 22, 2021 July 22, 2022 September 9, 2022 September 9, 2022 September 10, 2022 Scotober 13, 2022 Scotober 29, 2022 November 29, 2022 November 10, 2022 November 10, 2022 November 10, 2022 November 20, 2020 August 29, 2020 August 15, 2020 August 25, 2020	une 24, 2021 eptember 20, 2021 ebruary 8, 2022 eptember 12, 2022 eptember 12, 2022 eptember 31, 2022 elocober 31, 2022 dovember 30, 2022 epril 1, 2021 epril 1, 2021 epril 21, 2021 epril 22, 2020 eptember 24, 2021 epril 22, 2020 eptember 30, 2022 eptember 24, 2021 epril 22, 2021 epril 22, 2020 eptember 30, 2022 eptember 30, 2022 eptember 30, 2022 eptember 30, 2021 epril 22, 2020 eptember 5, 2020 eptember 24, 2021 eptembe	December 10, 2022 July 22, 2021 November 15, 2021 February 7, 2022 August 19, 2022 September 9, 2022 October 13, 2022 October 29, 2022 November 23, 2022 November 29, 2022 December 10, 2022 June 23, 2021 May 22, 2021 May 22, 2021 June 16, 2021 August 15, 2020 November 4, 2020 May 22, 2021 June 16, 2021 June 16, 2021 August 15, 2020 May 22, 2021 June 16, 2021 August 15, 2020 May 22, 2021 June 16, 2021 April 23, 2022 May 31, 2019 February 8, 2022 August 2, 2021 August 10, 2021	0%         0           0%         0	days 1	days days days	Temporary ELS & Exca vation Base Slab (12d/pay) Wall (14d/bay) Top Slab (20d/bay) Remove struts and backfilling Precast Installation Piling platform erection Piling platform erection Piling platform erection Remove of piling platform Install precast seawall into Reinstate seawall  Temporary ELS & Exca vation Base Slab (12d/pay) Top Slab (20d/bay) Remove struts and backfilling Part 1 - CH89-169 (80m) Temporary ELS & Excavation Base Slab (12d/bay) Remove struts and backfilling Part 1 - CH89-169 (80m)  Remove struts and backfilling Elevated Landscape Deck Part 1 - CH1919-2007 (88m) 4 bays Pier (4sats x 8nos) - 15d/set. 1 team
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Task	Name	Duration	Remaining	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical Free	Time Ris	k Total		
			Duration							% Slack		ces 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
	Secondary Upstand Beam	14 days	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		* Dismantle falsevrork
	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		Fart 2A - CH 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	September 13, 2021	Santambar 20, 202	1 November 2, 2021	November 10, 2021	0% 12 day	s 0 days	41 days		Falsework erection
	Deck (3 bays) 18d/bay	54 days		NA	NA			November 6, 2021	January 11, 2022		1 day	28 days		Deck (3 bays) L8d/bay
	Secondary Upstand Beam	12 days	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 3, 2022	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	<b>Mobil</b>	il <mark>i</mark> zation 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		Pier (3sets x 3nos) within CH2060-2119. 1 team
	Falsework erection	7 days	7 days	NA	NA	February 25, 2021	March 4, 2021	August 3, 2021	August 10, 2021	0% 0 days	0 days	129 days		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		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		Secondary Upstand Beam
	Dismantle falsework	5 days	5 days	NA	NA	June 12, 2021	June 18, 2021	November 16, 2021	November 20, 2021		0 days	129 days		Dismantle falsework
	Installation of Glass Balustrade	42 days	· '	NA	NA		January 29, 2022	March 2, 2022	April 23, 2022	0% 0 days		65 days		Installation of Glass Balustrade
	Part 2A - Lift LT1 & LT2	330 days	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		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	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	0 days	65 days		Testing & commi
	CLP Meter Installation	0 days	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		EMSD Submissio
	EMSD Lift Inspection	0 days		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		Staircase ST1
	Staircase ST1  Open 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		Open Spa
	Open Space & Promenade (From Northern End - CH1720)	501 days	, .	NA NA	NA NA	September 15,	May 30, 2023	October 11, 2021	May 30, 2023	0% 0 days		0 days 0 days		Open Spa
7	open space a riomenade (riom normen em em 20)	300 00,3	300 days	, and	NA.	2021	Way 50, 2025	000000111, 2021	Way 50, 2025	o, o days		o days		
	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		Observation Dec
	Foundation Construction	60 days	60 days	NA	NA	June 4, 2022	August 13, 2022	June 4, 2022	August 13, 2022	0% 0 days	3 days	0 days		Foundation Construction
	Structure work	60 days	60 days	NA	NA	August 15, 2022	October 26, 2022	September 26, 2022	· · · · · · · · · · · · · · · · · · ·			35 days		Structure work
	Construction of Lift Core	35 days	35 days	NA	NA	August 15, 2022	September 25, 2022	-	September 26, 202	· ·		0 days		Construction of Lift Core
	Lift installation	90 days	- '	NA	NA	October 27, 2022	February 13, 2023		May 30, 2023		s 1 day	85 days		Lift installation  E&M and ABWF work
	E&M and ABWF works  Toilet	60 days	- '	NA NA	NA NA			September 26, 2022	December 6, 2022			0 days		Toilet
	Footing	<b>366 days</b> 12 days	366 days 12 days	NA NA	NA NA	September 15, 20 September 15, 2021			October 25, 2021		0 days	0 days 20 days		Footing
	Structure work	45 days		NA	NA NA	September 30, 2021	• •	,	December 16, 2021			20 days		Structure work
	MIC toilet unit	24 days	- '	NA	NA		,	December 17, 2021			0.5 days	20 days		MIC toilet un t
	E&M and ABWF works	60 days	60 days	NA	NA			September 26, 2022			3 days	0 days		E&M and ABWF work
	Amphitheater	90 days	· ·	NA	NA	November 24, 2021		October 15, 2022	February 1, 2023		ys 1 day	264 days		Amphiti eater
_	Fast food kiosk deck	45 days	45 days	NA	NA	November 24, 2021	January 18, 2022	January 26, 2022	March 22, 2022		0.5 days	51 days		Fast food kipsk deck
	Fast food Kiosk	86 days	86 days	NA	NA		May 6, 2022	March 23, 2022	July 7, 2022	0% 0 days		51 days		Fast food Kiosk
	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 & Water
	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		Stepped Stage and Seating
	(under Bridge D3)	45 days	45 4	212	210	Cth20, 2022	N	0-4-645 2022	D	20 4-	0.5.4	20 4		Tring and form format
	Trim and form formation level within Open Space & Promenade area	45 days	45 days	NA	NA	September 20, 2022	November 12, 2022	October 15, 2022	December 6, 2022	υ% 20 day	s 0.5 days	20 days		Trim and form formati
	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		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	-	33 days		ABWF, E&M
	FSD Form 501 Submission for FS Inspection	0 days	0 days	NA	NA	March 23, 2023	March 23, 2023	May 1, 2023	May 1, 2023	0% 0 days		38 days		FSD Form 501
	FSD Inspection	0 days	0 days	NA	NA	April 7, 2023	April 7, 2023	May 16, 2023	May 16, 2023	0% 0 days		38 days		T FSD Inspection
	Issuance of FS Certificate	0 days	0 days	NA	NA	April 22, 2023	April 22, 2023	May 30, 2023	May 30, 2023	0% 38 day	s	38 days		\$ Issuance of
	Landscaping works	95 days	95 days	NA	NA	February 2, 2023	May 30, 2023	February 2, 2023	May 30, 2023	0% 0 days	4 days	0 days		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	· ·	NA	NA	July 13, 2021	January 10, 2022	October 7, 2021	April 8, 2022		1 day	72 days		Modification (Seawall) CH1820-1920
_	Temporary toilet	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		NA	NA		September 14, 2021		April 8, 2022		s 0.5 days	167 days		Temporary Management Office
	Floating Stage Concrete structure	18 days	- '	NA	NA	January 11, 2022	January 31, 2022	April 9, 2022	May 3, 2022	0% 0 days		72 days		Floating Stage Concrete structure
	Stepped Seating at Southern End	24 days		NA	NA		March 3, 2022	May 4, 2022	May 31, 2022		0.5 days			Stepped Seating at Southern End
				1						· · ·		•	1 11	
wies-!	Irogrammo Critical			anual Task	D	n only	Racolina Milata	^ -	man/	Fut			partius Milastons	- I
vised F	rogramme- Critical Task		M: St:	anual Task	Duration Baseline	,	Baseline Milestone		mary ual Summary	External Tas External Mil			•	y ————————————————————————————————————
018	01 with Progress   Critical Split   Split   Split												nactive Summary	

Task							22092019_Re	vised Programme with	Progress Update as o	of 22-Sep-1	19											
	Name	Duration	Remaining Duration	Actual Start	Actual Finish	Plan Start	Plan Finish	Late Start	Late Finish	Physical % Complet	Slack	Time Risk Allowance (TRA)		)19 H1	H2	2020 H1	H2	2021 H1	20	22   2 H1   H2	023	2024
	Trim and form formation level within Open Space & Promenade area	14 days	14 days	NA	NA	March 4, 2022	March 19, 2022	June 1, 2022	June 17, 2022	0%	_	0 days	72 days		ın September 2	_	П	, nı	HZ	Trim and form for	mation le	vel within Open S
	Paving work	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		
	ABWF, E&M work and street furniture	50 days	50 days	NA	NA	April 29, 2022	June 27, 2022	July 28, 2022	September 24, 202	2 0%	0 days	1 day	75 days							ABWF, E&M	work and	d street furniture
	CLP Meter Installation	0 days	0 days	NA	NA	June 27, 2022	June 27, 2022	May 1, 2023	May 1, 2023	0%	163 days		307 days							CLP Meter I	Installatio	n
	FSD Form 501 Submission for FS Inspection	0 days	0 days	NA	NA	December 8, 2022	December 8, 2022	May 1, 2023	May 1, 2023	0%	0 days		144 days							<b>▼</b> F:	SD Form !	501 Submission f
	FSD Inspection	0 days	0 days	NA	NA	December 22, 2022	December 22, 2022	May 16, 2023	May 16, 2023	0%	0 days		144 days							<u> </u>	FSD Inspe	ction
	Issuance of FS Certificate	0 days	0 days	NA	NA	January 6, 2023	January 6, 2023	May 30, 2023	May 30, 2023	0%	144 days		144 days							*	Issuance	of FS Certificate
	Landscaping works	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							La La	<del>ndscap</del> in	g works
	Part 1, 2A, 2B - Road L12	238 days	238 days	NA	NA	August 11, 2022	May 30, 2023	October 6, 2022	May 30, 2023	0%	0 days		0 days									Part 1, 2A, 2B - R
	Trim road formation	3 days	3 days	NA	NA	August 11, 2022	August 13, 2022	October 6, 2022	October 8, 2022	0%	0 days	1 day	45 days							Trim road		on
	Lay sub base	7 days	7 days	NA	NA	August 15, 2022	August 22, 2022	October 10, 2022	October 17, 2022		0 days	1 day	45 days							" <u>*</u> Lay sub l		
	Lay kerb	12 days	12 days	NA	NA	August 23, 2022	September 5, 2022	October 18, 2022	October 31, 2022	0%	0 days	1 day	45 days							Lay kerl		
	Construct pedestrian street/ footpath	14 days	14 days	NA	NA				November 16, 2022			1 day	45 days							-	- 1111	trian street/ foot
	Install central median	14 days	14 days	NA	NA			November 17, 2022				1 day	45 days							-	l central r	
	Concrete infill between profile barrier	7 days	7 days	NA	NA			December 3, 2022	December 10, 2022		45 days		45 days							-		between profile
_	Road pavement	5 days	5 days	NA	NA			December 12, 2022				0 days	0 days							Ţĸ	oad pave	
_	Install street furniture	131 days	131 days	NA	NA	December 17, 2022		December 17, 2022		0%		6 days	0 days							_		nstall street furn
	Planned Completion for 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									Planned Complet
_	ction 7	365 days	365 days	NA	NA	March 6, 2023	May 29, 2024	March 6, 2023	May 29, 2024	0%	0 days		0 days								<b>!</b>	
_	Establishment work for landscape softwork	365 days	365 days	NA	NA	March 6, 2023	May 29, 2024	March 6, 2023	May 29, 2024	0%		10 days	0 days									
_	Planned Completion for 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									
_	ction 8 (Subject to Excision)	152 days	152 days	NA	NA	May 26, 2021	November 24, 202		December 2, 2021		7 days		7 days						TI T	tion 8 (Subject to Exc	- 1	(F)
	Part 1 - DCS Intake Box Culvert - CHB. 0-5 (5m)	33 days	33 days	NA	NA	May 26, 2021	July 5, 2021	June 25, 2021	August 3, 2021	0%	0 days		25 days						MI 1	Intake Box Culvert -	CHB. 0-5	(5m)
	Temporary ELS & Excavation	18 days	18 days	NA	NA	May 26, 2021	June 16, 2021	June 25, 2021	July 16, 2021	0%		2 days	25 days						Temporary EL			
	Positioning of precast intake	5 days	5 days	NA	NA	June 17, 2021	June 22, 2021	July 17, 2021	July 22, 2021	0%		1 days	25 days						Positioning o	-		
	Remove struts and backfilling	10 days	10 days	NA	NA	June 23, 2021	July 5, 2021	July 23, 2021	August 3, 2021	0%	18 days	2 days	25 days							ts and backfilling		
	Part 2A - Diversion & abandon of extg DCS box culvert	152 days	152 days	NA	NA	May 26, 2021	November 24, 202		December 2, 2021		7 days		7 days					l l		t 2A - Diversion & ab		extg DCS box cu
	TTA,Temporary ELS & Excavation	51 days	51 days	NA	NA	May 26, 2021	July 26, 2021	June 3, 2021	August 3, 2021	0%	· ·		7 days					91	TI T	rary ELS & Excavation		
	Diversion of existing DCS box culvert	26 days	26 days	NA	NA	July 27, 2021	August 25, 2021	August 4, 2021	September 2, 2021			2 days	7 days							of existing DCS box		
'	Break up existing box culvert (4 walls) + top slab	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	ıp existing box culve	rt (4 walls	) + top slab
	Construct new walls at existing box culvert	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						Cons	ruct new walls at exis	stina box	culvert
	Abandon existing DCS box culvert	20 days	20 days	NA	NA			November 10, 2021	· ·			1 days	7 days							ndon existing DCS bo	- 1	
_	Planned Completion for Section 8	0 days	0 days	NA	NA		· · · · · · · · · · · · · · · · · · ·	December 2, 2021	· · · · · · · · · · · · · · · · · · ·			0 days	7 days							nned Completion for		
_	ction 9 (Subject to Excision)	174 days	174 days	NA	NA	November 21, 202		November 30, 2020		0%	7 days	,-	7 days							bject to Excision)		
	Noise barrier fronting to 4B5 at Rd D3A & Bus Lay By ~80m		174 days	NA	NA	November 21, 202	,	November 30, 2020		0%	7 days		7 days						11711	fronting to 4B5 at R	d D3A &	Bus Lay By ~80m
	ELS & Excavation	18 days	18 days	NA	NA			November 30, 2020			0 days	1 davs	7 days					ELS & Exc	TIIT I I	•		, ,
	Noise Barrier Foundation	75 days	75 days	NA	NA			December 21, 2020		0%		4 days	7 days					Noi	ise Barrier Found	lation		
	CNP Application	28 days	28 days	NA	NA			February 25, 2021			32 days	,.	40 days					= CNP	Application			
	Frame & Panel installation (Night Work)	81 days	81 days	NA	NA	March 17, 2021	June 25, 2021	March 25, 2021	July 5, 2021	0%	0 days	4 days	7 days						II II	el installation (Night	Work)	
	Planned Completion for Section 9	0 days	0 days	NA	NA	June 25, 2021	June 25, 2021	July 5, 2021	July 5, 2021	0%		0.5 days	10 days						Planned Con	pletion for Section 9	· [	
_	ction 10 (Subject to Excision)	582 days	582 days	NA	NA	June 5, 2021	May 18, 2023	June 17, 2021	May 30, 2023	0%	9 days		9 days								s	ection 10 (Subj
_	Decking for Underpass (Rd L14)	581 days	581 days	NA	NA	June 5, 2021	May 17, 2023	June 17, 2021	May 29, 2023	0%	9 days		9 days								-	ecking for Unde
	Support along U-through	225 days	225 days	NA	NA	June 5, 2021	March 7, 2022	June 17, 2021	March 17, 2022	0%		10 days	9 days					•	-	Support along U-th		<b>3</b>
1	Plinth installation along support	123 days	123 days	NA	NA	March 8, 2022	August 4, 2022	March 18, 2022	August 15, 2022	0%		6 days	9 days									long support
_	Placing of beam along underpass	90 days	90 days	NA	NA			September 19, 2022		0%		4 days	9 days									beam along und
			115 days	NA	NA	December 24, 2022		January 5, 2023	May 29, 2023	0%	0 days		9 days							<u> </u>	- 11	over-up (Roof)
_	Cover-up (Roof)	115 days					,,	, .,			,-	,-								_	₽	• •

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 June 2020

## June 2020

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

### NOTE:

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

### **Air Quality Monitoring Station**

AM3 - Sky Tower

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 July 2020

# July 2020

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

#### NOTE:

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

#### **Air Quality Monitoring Station**

AM3 - Sky Tower

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

AM7 - Hong Kong Children's Hospital

## **Noise Quality Monitoring Station**

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

M12 - Hong Kong Children's Hospital

# **Appendix D – Photographic records**

# Impact Air Quality Monitoring



Measurement setup at AM3



Measurement setup at AM4(A)



Measurement setup at AM7

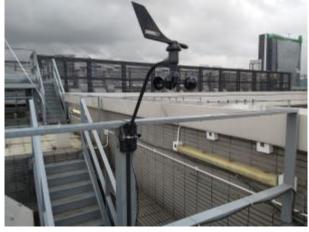
# Impact Noise Monitoring



Measurement setup at M11



Measurement setup at M12



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

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

# 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
- Elapsed 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

Tisch Environmental 145 S. Miami Ave Cleves, OH 45002 513-467-9000 sales@tisch-env.com



# TSP MFC

MFC TSP Ambient Air Sampler

#### General System Specifications

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

Pressure Recorder: Dickson Chart Recorder, 24 hour

Timer: 7 Day Mechanical

Elapsed Time Indicator: Mechanical, Hours and Tenths

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

Housing: Anodized Aluminum

Filter Holder: Stainless Steel, 8" x 10"

4" Recorder Charts: Box of 100

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

#### Application:

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

#### Optional Equipmen

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"

#### Calibration Equipment

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

#### Physical Specifications

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

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## Calibration Certificate of HVS

## Air Sampler Calibration Curve Plotting & Calculation

#### (Dickson recorder)

Calibration curve ref. No. :	ATSPC-01-2020060102	Date of calibration:	01/06/2020	
Location	Slav Towar	Complex :	TE 5170V	

#### Calibration Data

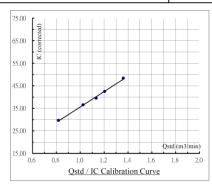
Ambient barometric	e pressure, Pa =	756.4	(mmHg)	Ambient temperature,	Ta =	304.15	( deg K )
Qstd Slope, m =	2.03067			Qstd Intercept, b =	-0.007	660	

#### Calibration Curve

Dista Nis	H <sub>2</sub> O	Qstd	I	IC
Plate No.	( in )	( m <sup>3</sup> / min )	( chart )	( corrected )
18	7.80	1.362	49.0	48.39
13	6.10	1.205	43.0	42.46
10	5.40	1.134	40.0	39.50
7	4.40	1.024	37.0	36.54
5	2.80	0.818	30.0	29.63

#### Subsequent calculation of sampler flow

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r	
Dickson recorder	Qstd = 1 / m1 [ (1) ( Sqrt ( ( Pav / 760 ) ( 298 / Tav ) ) ) - b1 ]	34.127	1.4709	0.9981	l



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 :

 Name :
 ( Chan Kwok Ho )

 Name :
 ( Wong Yin Tong )

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

## $\label{lem:air-sampler-calibration} \textbf{Air Sampler Calibration Curve Plotting \& Calculation}$

#### (Dickson recorder)

Calibration curve ref. No. : ATSPC-01-2020060101		Date of calibration:	01/06/2020		
The Hong Kong Society for the Blind's					
Location:	Factory cum Sheltered Workshop		Sampler:	TE-5170X	
Calibration Data					

#### Calibration Data

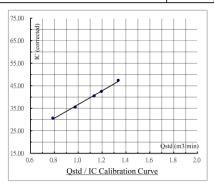
Ambient barometric	pressure, Pa =	756.4	( mmHg )	Ambient temperature,	Ta =	304.15	( deg K )
Qstd Slope, m =	2.03067			Qstd Intercept, b =	-0.007	7660	

#### Calibration Curve

Plate No.	H <sub>2</sub> O	Qstd	I	IC
	( in )	( m <sup>3</sup> / min )	( chart )	( corrected )
18	7.50	1.336	48.0	47.40
13	6.00	1.195	43.0	42.46
10	5.40	1.134	41.0	40.49
7	4.00	0.976	36.0	35.55
5	2.60	0.788	31.0	30.61

#### 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 ]	30.569	6.1104	0.9981



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 :

 Name :
 ( Chan Kwok Ho )

 Name :
 ( Wong Yin Tong )

# Calibration Certificate of HVS

## $\label{lem:air-sampler-calibration} \textbf{Air Sampler Calibration Curve Plotting \& Calculation}$

#### (Dickson recorder)

Calibration curve ref. No. :		ATSPC-01-20	20060103	Date of calibration :	01/06/2020	
Location : Hong Kong Children's Hospital		Sampler :	TE-5170X			
Calibration Dat	<u>a</u>					
Ambient barome	etric pressure,	Pa = 756.4	( mmHg )	Ambient temperature, Ta =	304.15	( deg K )
Qstd Slope, m =	2.03067	,		Qstd Intercept, b = -0.0	007660	

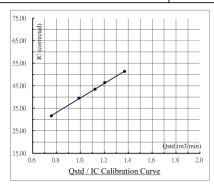
Calibration Curve

Canbranon Carve				
Plate No.	H <sub>2</sub> O	Qstd	I	IC
	( in )	( m <sup>3</sup> / min )	( chart )	( corrected )
18	7.90	1.371	52.0	51.35
13	6.10	1.205	47.0	46.41
10	5.30	1.123	44.0	43.45
7	4.10	0.988	40.0	39.50
5	2.40	0.757	32.0	31.60

Subsequent calculation of sampler flow

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

Method	Calibration equation	Slope, m	Intercept, b	Corr. coeff., r	
Dickson recorder	Qstd = 1 / m1 [ (I) ( Sqrt ( ( Pav / 760 ) ( 298 / Tav ) ) ) - b1 ]	32.174	7.4307	0.9995	



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

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

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

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

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

#### 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 (x-axis) (m3) (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 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/\DalaTime 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

#### **Advanced Features**

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

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

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

#### Power to Spare

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

#### Model AM510 SidePak Personal Aerosol Monitor

#### Sensitivity

90° light scattering, Sensor Type 670 nm laser diode 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/m<sup>3</sup>

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** 

Approx. 31,000 Data Points

Logging Interval User-adjustable, 1 second to 1 hour

**User-Select Calibration Factors** 

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

Physical

Weight

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

801743 battery

5.1 x 3.7 x 2.8 in. (130 x 92 x 70 mm)

with 801708, 801722, 801728,

801735, or 801736 battery

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

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

Display 2 line x 12 character LCD

Tripod Socket 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

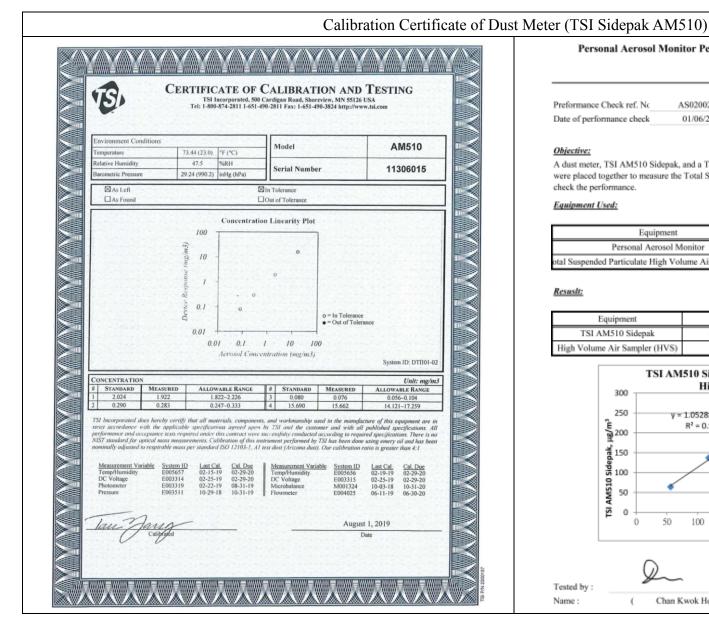
\*\*All dust plugs and dust gaskets must be installed.

\*\*\*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	01/06/2020			

#### Objective:

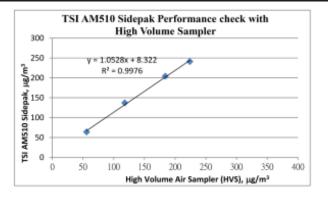
A dust meter, TSI AM510 Sidepak, and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

#### Equipment Used:

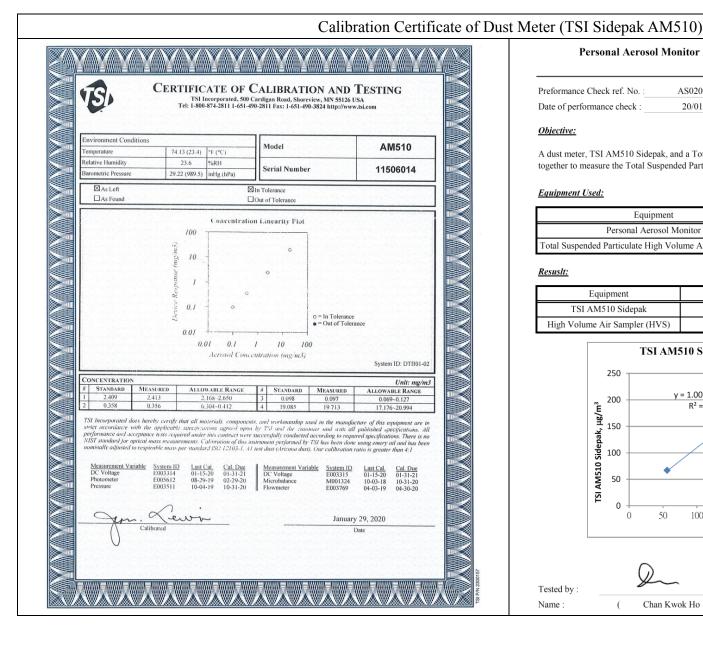
Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11306015
otal Suspended Particulate High Volume Air Sampler (HVS	GS2310	10346

#### Resustr:

Equipment	Measurement Result, μg/m <sup>3</sup>			
TSI AM510 Sidepak	64	137	204	241
High Volume Air Sampler (HVS)	56	118	184	224



Tested by: Checked by: Name: Chan Kwok Ho Wong Yin Tong Name:



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

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

#### Objective:

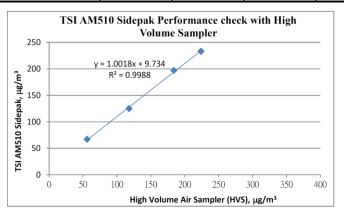
A dust meter, TSI AM510 Sidepak, and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

#### Equipment Used:

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

#### Resustt:

Equipment	Measurement Result, μg/m <sup>3</sup>			
TSI AM510 Sidepak	67	125	197	233
High Volume Air Sampler (HVS)	56	118	184	224



	$Q_{-}$			$\mathcal{N}$			7	
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<sup>™</sup> (# 6152C) and Vantage Pro2<sup>™</sup> Plus (# 6162C) cabled weather stations include two components: the Integrated Sensor Suite (ISS) and the console. The ISS contains the sensor interface module (SIM), rain collector, an anemometer, and a passive radiation shield. The Vantage Pro2 console provides the user interface, data display, and calculations. The Vantage Pro2 Plus weather station includes two additional sensors that are optional on the Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are powered by an AC-power adapter connected to the console. Batteries can be installed in the console to provide a backup power supply. Use WeatherLink® to let your weather station interface with a computer, log data, and upload weather information to the Internet. The 6152C and 6162C models rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings.

#### Integrated Sensor Suite (ISS)

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

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

Wind Speed Sensor . . . . . . . . . . . . . . . . Solid state magnetic sensor Wind Direction Sensor . . . . . . . . . . . . . . . . . Wind vane with potentiometer (214 cm<sup>2</sup>) collection area Temperature Sensor Type...... PN Junction Silicon Diode Relative Humidity Sensor Type . . . . . . . . . . . . . Film capacitor element Sensor Inputs 

ISS Dimensions(not including anemometer or bird spikes):

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



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

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

Vantage Pro2

Ultra Violet (UV)	Radiation Index	(requires UV	sensor)
Resolution and Units		0.1 Index	

Historical Graph Data . . . . . . . . . . . . Hourly Average, Daily, Monthly Highs

#### Wind

#### Wind Chill (Calculated)

Range . . . . . . -110° to +135°F (-79° to +57°C) 

Alarm High Threshold from Instant Calculation

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

Equation Used . . . . . . . . . . Osczevski (1995) (adopted by US NWS in 2001) Variables Used . . . . . . . . . . . . . . . . Instant Outside Temperature and 10-min. Avg. Wind Speed

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

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

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

Wind Direction

Monthly Dominant

Monthly Dominants

Wind Speed

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

m/s or 1 knot

length of cable from anemometer to ISS increases.)

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

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

Monthly and Yearly High with Direction of High

Highs with Direction of Highs

High Thresholds from Instant Reading and 10-minute Average

## Calibration Certificate of Weather Station



## Calibration Certificate

### Certificate No.: CC0202001

Calibration item :	a) Wind Speed
Cambration term	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 6
Adjustment :	N/A J/La J/La J/La J/La
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 WWW

Company Chop:

Certificate issue date: 3 February 2020

CT-BEG-02

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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
0°	O <sub>0</sub>	O°
45°	45°	0° 0
90°	900	00//
135°	135°	0°
180°	180°	0°
225° - 8	225°	0° 0°
270°	270°	0°
315°	315°	0°

Estimated expanded uncertainty: 5°

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

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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

## Calibration Certificate of Weather Station 5. Reference method for calibration Wind Speed SOP-251 SOP-252 Wind Direction 6. Environment condition of calibration Temperature; °C 24.0 °C Relative humidity; %RH 44 %RH 7. Reference equipment used in the calibration Item Model Serial No. Expiry date Traceable to 41543692 Reference Anemometer 405-V1 1 Jan 2021 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. Note2: 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. Date: 31 January 2020 \*\*\* End of Certificate \*\*\* CT-END-02 The certificate shall not reproduced except in full without the written approval of CAL LAB LTD 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

# Appendix F – Weather information

## **General Information**

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/06/2020	28.7	32.2	Trace
02/06/2020	27.4	30.5	6.4
03/06/2020	28.7	32.1	Trace
04/06/2020	28.7	32.7	Trace
05/06/2020	27.5	32.3	2.6
06/06/2020	24.1	29.9	183.8
07/06/2020	24.6	29.4	107.4
08/06/2020	25.2	29.3	40.9
09/06/2020	28.1	31.4	1.3
10/06/2020	28.3	31.7	0.2
11/06/2020	28.1	33.9	Trace
12/06/2020	27.8	35	0
13/06/2020	27.6	33.7	11.7
14/06/2020	26	31.5	29.3
15/06/2020	26.3	32.6	0.2
16/06/2020	26.8	31.1	9.4
17/06/2020	27.5	31.7	0.9
18/06/2020	27.7	31.8	0.1
19/06/2020	28.2	32.4	Trace
20/06/2020	28.3	32.7	0
21/06/2020	28.7	32.6	Trace
22/06/2020	29.2	32.6	Trace
23/06/2020	29.1	32.6	0
24/06/2020	29	32.9	0
25/06/2020	29.1	32.4	0.1
26/06/2020	29.4	32	1.3
27/06/2020	28.5	32.5	1.2
28/06/2020	28.5	33	Trace
29/06/2020	28.2	34.2	0.4
30/06/2020	28.7	34.9	Trace

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

NOTE2: Trace means rainfall less than 0.05 mm

 $\underline{https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2020\&m=6}$ 

Date	Time	Wind Speed (m/s)	Wind Direction												
01/06/2020	0:00	0.4	67.5	02/06/2020	0:00	0.9	67.5	03/06/2020	0:00	0.9	90	04/06/2020	0:00	0.4	90
01/06/2020	1:00	0.4	90	02/06/2020	1:00	0.4	90	03/06/2020	1:00	0.4	67.5	04/06/2020	1:00	0.9	90
01/06/2020	2:00	0.4	67.5	02/06/2020	2:00	0.4	67.5	03/06/2020	2:00	0.4	67.5	04/06/2020	2:00	0.9	90
01/06/2020	3:00	0.4	45	02/06/2020	3:00	0.9	67.5	03/06/2020	3:00	0.9	67.5	04/06/2020	3:00	0.9	90
01/06/2020	4:00	0.9	45	02/06/2020	4:00	0.9	67.5	03/06/2020	4:00	0.9	67.5	04/06/2020	4:00	0.4	90
01/06/2020	5:00	0.9	67.5	02/06/2020	5:00	0.4	67.5	03/06/2020	5:00	0.4	67.5	04/06/2020	5:00	0.4	90
01/06/2020	6:00	0.9	45	02/06/2020	6:00	0.4	67.5	03/06/2020	6:00	0.4	45	04/06/2020	6:00	0.4	112.5
01/06/2020	7:00	0.4	67.5	02/06/2020	7:00	0.4	90	03/06/2020	7:00	0.4	45	04/06/2020	7:00	0.4	112.5
01/06/2020	8:00	0.4	202.5	02/06/2020	8:00	0.4	67.5	03/06/2020	8:00	0.4	67.5	04/06/2020	8:00	0.9	90
01/06/2020	9:00	0.4	135	02/06/2020	9:00	0.4	67.5	03/06/2020	9:00	0.4	67.5	04/06/2020	9:00	0.9	112.5
01/06/2020	10:00	0.4	67.5	02/06/2020	10:00	1.3	90	03/06/2020	10:00	0.4	45	04/06/2020	10:00	0.9	112.5
01/06/2020	11:00	0.4	67.5	02/06/2020	11:00	1.3	135	03/06/2020	11:00	0	67.5	04/06/2020	11:00	0.9	90
01/06/2020	12:00	0.4	67.5	02/06/2020	12:00	1.3	135	03/06/2020	12:00	0	67.5	04/06/2020	12:00	0.9	112.5
01/06/2020	13:00	0.4	45	02/06/2020	13:00	0.4	90	03/06/2020	13:00	0.4	67.5	04/06/2020	13:00	0.9	90
01/06/2020	14:00	0.4	112.5	02/06/2020	14:00	0.4	67.5	03/06/2020	14:00	0.4	45	04/06/2020	14:00	1.3	22.5
01/06/2020	15:00	0.4	112.5	02/06/2020	15:00	0.4	112.5	03/06/2020	15:00	0.4	45	04/06/2020	15:00	1.3	90
01/06/2020	16:00	0.4	112.5	02/06/2020	16:00	0.9	90	03/06/2020	16:00	0.9	67.5	04/06/2020	16:00	1.3	90
01/06/2020	17:00	0.4	112.5	02/06/2020	17:00	0.9	90	03/06/2020	17:00	0.9	67.5	04/06/2020	17:00	0.9	157.5
01/06/2020	18:00	0.4	112.5	02/06/2020	18:00	0.4	90	03/06/2020	18:00	0.4	45	04/06/2020	18:00	1.3	135
01/06/2020	19:00	0.4	112.5	02/06/2020	19:00	0.9	67.5	03/06/2020	19:00	0.9	67.5	04/06/2020	19:00	1.3	90
01/06/2020	20:00	0.4	112.5	02/06/2020	20:00	0.9	45	03/06/2020	20:00	0.9	67.5	04/06/2020	20:00	0.9	112.5
01/06/2020	21:00	0.4	112.5	02/06/2020	21:00	0.4	112.5	03/06/2020	21:00	0.4	67.5	04/06/2020	21:00	1.3	112.5
01/06/2020	22:00	0.9	112.5	02/06/2020	22:00	0.9	45	03/06/2020	22:00	0.9	90	04/06/2020	22:00	0.4	112.5
01/06/2020	23:00	0.9	67.5	02/06/2020	23:00	0.4	90	03/06/2020	23:00	0.4	225	04/06/2020	23:00	0.4	112.5

Date	Time	Wind Speed (m/s)	Wind Direction												
05/06/2020	0:00	0.9	90	06/06/2020	0:00	0.4	90	07/06/2020	0:00	0.4	90	08/06/2020	0:00	0.9	45
05/06/2020	1:00	1.3	315	06/06/2020	1:00	0.4	67.5	07/06/2020	1:00	0.4	90	08/06/2020	1:00	0.9	67.5
05/06/2020	2:00	0.4	135	06/06/2020	2:00	0.4	67.5	07/06/2020	2:00	0.4	112.5	08/06/2020	2:00	0.9	67.5
05/06/2020	3:00	0.4	112.5	06/06/2020	3:00	0.4	112.5	07/06/2020	3:00	0.9	90	08/06/2020	3:00	0.4	67.5
05/06/2020	4:00	0.9	135	06/06/2020	4:00	0.4	112.5	07/06/2020	4:00	0.9	112.5	08/06/2020	4:00	0.4	112.5
05/06/2020	5:00	0.4	135	06/06/2020	5:00	0.9	67.5	07/06/2020	5:00	0.9	112.5	08/06/2020	5:00	0.4	90
05/06/2020	6:00	0.9	0	06/06/2020	6:00	0.9	67.5	07/06/2020	6:00	1.3	112.5	08/06/2020	6:00	1.3	67.5
05/06/2020	7:00	0.9	22.5	06/06/2020	7:00	0.9	67.5	07/06/2020	7:00	1.3	90	08/06/2020	7:00	1.8	67.5
05/06/2020	8:00	0.9	112.5	06/06/2020	8:00	1.3	45	07/06/2020	8:00	1.8	90	08/06/2020	8:00	0.9	90
05/06/2020	9:00	0.4	135	06/06/2020	9:00	1.8	0	07/06/2020	9:00	1.8	112.5	08/06/2020	9:00	0.4	67.5
05/06/2020	10:00	0.9	112.5	06/06/2020	10:00	1.8	22.5	07/06/2020	10:00	1.3	90	08/06/2020	10:00	0.9	67.5
05/06/2020	11:00	0.4	112.5	06/06/2020	11:00	1.3	22.5	07/06/2020	11:00	0.9	112.5	08/06/2020	11:00	0.9	67.5
05/06/2020	12:00	0.9	90	06/06/2020	12:00	1.3	45	07/06/2020	12:00	1.8	45	08/06/2020	12:00	0.9	67.5
05/06/2020	13:00	0.4	45	06/06/2020	13:00	2.2	22.5	07/06/2020	13:00	2.2	45	08/06/2020	13:00	1.3	22.5
05/06/2020	14:00	0.4	112.5	06/06/2020	14:00	0.9	112.5	07/06/2020	14:00	1.3	45	08/06/2020	14:00	1.3	45
05/06/2020	15:00	0.9	112.5	06/06/2020	15:00	0.9	112.5	07/06/2020	15:00	0.9	112.5	08/06/2020	15:00	0.9	45
05/06/2020	16:00	0.9	135	06/06/2020	16:00	1.3	22.5	07/06/2020	16:00	1.3	135	08/06/2020	16:00	0.9	45
05/06/2020	17:00	0.9	112.5	06/06/2020	17:00	1.3	0	07/06/2020	17:00	1.3	112.5	08/06/2020	17:00	0.9	90
05/06/2020	18:00	1.3	337.5	06/06/2020	18:00	2.2	0	07/06/2020	18:00	1.3	112.5	08/06/2020	18:00	1.3	45
05/06/2020	19:00	1.3	45	06/06/2020	19:00	0.4	22.5	07/06/2020	19:00	1.3	135	08/06/2020	19:00	1.3	90
05/06/2020	20:00	0.9	67.5	06/06/2020	20:00	0.4	90	07/06/2020	20:00	1.3	22.5	08/06/2020	20:00	1.3	45
05/06/2020	21:00	0.4	0	06/06/2020	21:00	0.4	45	07/06/2020	21:00	1.3	135	08/06/2020	21:00	1.3	45
05/06/2020	22:00	0.4	112.5	06/06/2020	22:00	0.4	112.5	07/06/2020	22:00	1.3	135	08/06/2020	22:00	1.3	45
05/06/2020	23:00	0.4	337.5	06/06/2020	23:00	0.9	90	07/06/2020	23:00	1.8	112.5	08/06/2020	23:00	1.3	45

Date	Time	Wind Speed (m/s)	Wind Direction												
09/06/2020	0:00	0.9	67.5	10/06/2020	0:00	0.9	112.5	11/06/2020	0:00	0.4	67.5	12/06/2020	0:00	3.6	22.5
09/06/2020	1:00	0.9	67.5	10/06/2020	1:00	0.9	112.5	11/06/2020	1:00	0.4	67.5	12/06/2020	1:00	2.2	22.5
09/06/2020	2:00	0.9	67.5	10/06/2020	2:00	0.4	90	11/06/2020	2:00	0.4	90	12/06/2020	2:00	1.8	67.5
09/06/2020	3:00	0.4	67.5	10/06/2020	3:00	0.4	112.5	11/06/2020	3:00	0.9	112.5	12/06/2020	3:00	2.2	67.5
09/06/2020	4:00	0.9	90	10/06/2020	4:00	0.4	112.5	11/06/2020	4:00	0.4	112.5	12/06/2020	4:00	2.2	45
09/06/2020	5:00	0.9	67.5	10/06/2020	5:00	0.4	90	11/06/2020	5:00	0.4	90	12/06/2020	5:00	3.1	90
09/06/2020	6:00	0.4	90	10/06/2020	6:00	0.4	90	11/06/2020	6:00	0.4	67.5	12/06/2020	6:00	2.7	90
09/06/2020	7:00	0.9	90	10/06/2020	7:00	0.4	112.5	11/06/2020	7:00	0.4	67.5	12/06/2020	7:00	4	90
09/06/2020	8:00	0.9	90	10/06/2020	8:00	0.9	90	11/06/2020	8:00	0.4	67.5	12/06/2020	8:00	3.1	90
09/06/2020	9:00	0.9	67.5	10/06/2020	9:00	1.3	90	11/06/2020	9:00	0.4	90	12/06/2020	9:00	3.1	90
09/06/2020	10:00	0.4	45	10/06/2020	10:00	1.3	67.5	11/06/2020	10:00	0.9	67.5	12/06/2020	10:00	4.5	90
09/06/2020	11:00	0.9	90	10/06/2020	11:00	1.3	90	11/06/2020	11:00	0.4	67.5	12/06/2020	11:00	3.6	90
09/06/2020	12:00	0.9	45	10/06/2020	12:00	0.9	112.5	11/06/2020	12:00	0.4	90	12/06/2020	12:00	3.6	90
09/06/2020	13:00	0.4	45	10/06/2020	13:00	0.9	90	11/06/2020	13:00	2.7	90	12/06/2020	13:00	3.1	112.5
09/06/2020	14:00	0.9	67.5	10/06/2020	14:00	0.9	90	11/06/2020	14:00	2.7	67.5	12/06/2020	14:00	3.1	112.5
09/06/2020	15:00	0.4	67.5	10/06/2020	15:00	0.9	67.5	11/06/2020	15:00	2.2	67.5	12/06/2020	15:00	2.7	90
09/06/2020	16:00	0.9	67.5	10/06/2020	16:00	1.3	90	11/06/2020	16:00	2.2	67.5	12/06/2020	16:00	2.7	112.5
09/06/2020	17:00	0.4	45	10/06/2020	17:00	1.3	67.5	11/06/2020	17:00	2.2	90	12/06/2020	17:00	1.8	112.5
09/06/2020	18:00	0.4	67.5	10/06/2020	18:00	1.3	90	11/06/2020	18:00	1.8	67.5	12/06/2020	18:00	1.8	90
09/06/2020	19:00	0.9	67.5	10/06/2020	19:00	0.9	90	11/06/2020	19:00	1.8	67.5	12/06/2020	19:00	2.2	90
09/06/2020	20:00	0.9	90	10/06/2020	20:00	0.4	112.5	11/06/2020	20:00	2.7	45	12/06/2020	20:00	1.8	90
09/06/2020	21:00	0.4	45	10/06/2020	21:00	0.4	90	11/06/2020	21:00	1.8	45	12/06/2020	21:00	1.3	112.5
09/06/2020	22:00	0.9	67.5	10/06/2020	22:00	0.4	67.5	11/06/2020	22:00	1.8	67.5	12/06/2020	22:00	1.8	112.5
09/06/2020	23:00	0.9	67.5	10/06/2020	23:00	0.4	90	11/06/2020	23:00	2.2	45	12/06/2020	23:00	0.9	90

Date	Time	Wind Speed (m/s)	Wind Direction												
13/06/2020	0:00	0.4	135	14/06/2020	0:00	0.4	90	15/06/2020	0:00	0.4	90	16/06/2020	0:00	0.9	90
13/06/2020	1:00	0.4	135	14/06/2020	1:00	0.4	90	15/06/2020	1:00	0.4	135	16/06/2020	1:00	0.9	135
13/06/2020	2:00	0.4	135	14/06/2020	2:00	0.4	67.5	15/06/2020	2:00	0.4	180	16/06/2020	2:00	0.4	112.5
13/06/2020	3:00	1.3	135	14/06/2020	3:00	0.4	157.5	15/06/2020	3:00	0.4	180	16/06/2020	3:00	0.9	90
13/06/2020	4:00	0.4	135	14/06/2020	4:00	0.4	112.5	15/06/2020	4:00	0.4	180	16/06/2020	4:00	0.4	90
13/06/2020	5:00	0.4	135	14/06/2020	5:00	0.4	112.5	15/06/2020	5:00	0.4	90	16/06/2020	5:00	0.4	45
13/06/2020	6:00	0.9	135	14/06/2020	6:00	0.4	90	15/06/2020	6:00	0.4	90	16/06/2020	6:00	0.4	135
13/06/2020	7:00	1.3	112.5	14/06/2020	7:00	0.9	112.5	15/06/2020	7:00	0.9	202.5	16/06/2020	7:00	0.4	157.5
13/06/2020	8:00	0.4	67.5	14/06/2020	8:00	0.4	112.5	15/06/2020	8:00	0.9	112.5	16/06/2020	8:00	0.4	90
13/06/2020	9:00	0.4	112.5	14/06/2020	9:00	0.4	112.5	15/06/2020	9:00	0.9	112.5	16/06/2020	9:00	0.4	112.5
13/06/2020	10:00	0.9	112.5	14/06/2020	10:00	0.4	90	15/06/2020	10:00	0.9	112.5	16/06/2020	10:00	0.4	135
13/06/2020	11:00	0.9	112.5	14/06/2020	11:00	0.4	90	15/06/2020	11:00	0.9	112.5	16/06/2020	11:00	0.4	112.5
13/06/2020	12:00	0.9	112.5	14/06/2020	12:00	0.4	112.5	15/06/2020	12:00	1.3	112.5	16/06/2020	12:00	0.4	112.5
13/06/2020	13:00	0.9	112.5	14/06/2020	13:00	1.8	112.5	15/06/2020	13:00	0.9	135	16/06/2020	13:00	0.4	247.5
13/06/2020	14:00	1.3	135	14/06/2020	14:00	1.8	90	15/06/2020	14:00	0.9	112.5	16/06/2020	14:00	0.4	67.5
13/06/2020	15:00	1.3	135	14/06/2020	15:00	1.3	112.5	15/06/2020	15:00	0.9	45	16/06/2020	15:00	0.4	67.5
13/06/2020	16:00	1.3	135	14/06/2020	16:00	0.9	67.5	15/06/2020	16:00	1.3	67.5	16/06/2020	16:00	0.4	67.5
13/06/2020	17:00	1.3	135	14/06/2020	17:00	0.9	90	15/06/2020	17:00	1.3	90	16/06/2020	17:00	0.4	67.5
13/06/2020	18:00	1.3	90	14/06/2020	18:00	1.8	67.5	15/06/2020	18:00	1.3	67.5	16/06/2020	18:00	0.9	45
13/06/2020	19:00	1.3	112.5	14/06/2020	19:00	1.8	135	15/06/2020	19:00	0.9	90	16/06/2020	19:00	1.3	67.5
13/06/2020	20:00	1.3	67.5	14/06/2020	20:00	1.3	90	15/06/2020	20:00	1.3	67.5	16/06/2020	20:00	0.9	45
13/06/2020	21:00	0.9	90	14/06/2020	21:00	0.9	90	15/06/2020	21:00	1.3	67.5	16/06/2020	21:00	0.9	67.5
13/06/2020	22:00	1.3	90	14/06/2020	22:00	1.3	90	15/06/2020	22:00	1.3	112.5	16/06/2020	22:00	0.9	45
13/06/2020	23:00	0.9	90	14/06/2020	23:00	0.9	135	15/06/2020	23:00	1.3	67.5	16/06/2020	23:00	0.9	45

Date	Time	Wind Speed (m/s)	Wind Direction												
17/06/2020	0:00	0.4	67.5	18/06/2020	0:00	0.4	90	19/06/2020	0:00	0.4	45	20/06/2020	0:00	0.4	67.5
17/06/2020	1:00	0.4	67.5	18/06/2020	1:00	0.4	90	19/06/2020	1:00	0.4	90	20/06/2020	1:00	0.4	45
17/06/2020	2:00	0.9	90	18/06/2020	2:00	0.4	67.5	19/06/2020	2:00	0.4	90	20/06/2020	2:00	0.4	90
17/06/2020	3:00	0.9	67.5	18/06/2020	3:00	0.4	67.5	19/06/2020	3:00	0.4	90	20/06/2020	3:00	0.9	67.5
17/06/2020	4:00	0.9	112.5	18/06/2020	4:00	0.4	45	19/06/2020	4:00	0.4	90	20/06/2020	4:00	0.9	90
17/06/2020	5:00	0.9	67.5	18/06/2020	5:00	0.4	112.5	19/06/2020	5:00	0.9	90	20/06/2020	5:00	0.4	67.5
17/06/2020	6:00	0.9	90	18/06/2020	6:00	0.4	135	19/06/2020	6:00	0.9	67.5	20/06/2020	6:00	0.4	90
17/06/2020	7:00	0.9	90	18/06/2020	7:00	0.9	90	19/06/2020	7:00	0.9	90	20/06/2020	7:00	0.9	67.5
17/06/2020	8:00	0.4	67.5	18/06/2020	8:00	0.9	112.5	19/06/2020	8:00	0.4	112.5	20/06/2020	8:00	0.9	45
17/06/2020	9:00	0.4	67.5	18/06/2020	9:00	0.4	90	19/06/2020	9:00	0.4	67.5	20/06/2020	9:00	0.9	67.5
17/06/2020	10:00	0.9	67.5	18/06/2020	10:00	0.9	90	19/06/2020	10:00	0.9	90	20/06/2020	10:00	0.9	67.5
17/06/2020	11:00	0.9	112.5	18/06/2020	11:00	0.9	90	19/06/2020	11:00	0.9	270	20/06/2020	11:00	0.4	67.5
17/06/2020	12:00	0.9	90	18/06/2020	12:00	0.4	90	19/06/2020	12:00	0.4	247.5	20/06/2020	12:00	0.4	247.5
17/06/2020	13:00	0.9	67.5	18/06/2020	13:00	0.4	112.5	19/06/2020	13:00	0.9	225	20/06/2020	13:00	0.9	270
17/06/2020	14:00	0.9	90	18/06/2020	14:00	0.4	112.5	19/06/2020	14:00	1.3	247.5	20/06/2020	14:00	0.9	45
17/06/2020	15:00	0.9	112.5	18/06/2020	15:00	0.9	90	19/06/2020	15:00	2.2	247.5	20/06/2020	15:00	0.9	67.5
17/06/2020	16:00	1.3	112.5	18/06/2020	16:00	1.8	90	19/06/2020	16:00	2.2	247.5	20/06/2020	16:00	1.3	225
17/06/2020	17:00	1.3	112.5	18/06/2020	17:00	1.3	90	19/06/2020	17:00	1.8	45	20/06/2020	17:00	0.9	67.5
17/06/2020	18:00	0.9	67.5	18/06/2020	18:00	1.3	112.5	19/06/2020	18:00	1.3	45	20/06/2020	18:00	1.8	45
17/06/2020	19:00	1.3	67.5	18/06/2020	19:00	0.9	112.5	19/06/2020	19:00	1.8	45	20/06/2020	19:00	0.9	45
17/06/2020	20:00	1.3	67.5	18/06/2020	20:00	0.9	90	19/06/2020	20:00	3.1	45	20/06/2020	20:00	0.9	45
17/06/2020	21:00	1.3	90	18/06/2020	21:00	1.3	90	19/06/2020	21:00	1.8	45	20/06/2020	21:00	0.9	45
17/06/2020	22:00	0.9	90	18/06/2020	22:00	1.3	90	19/06/2020	22:00	1.3	67.5	20/06/2020	22:00	1.3	45
17/06/2020	23:00	2.2	247.5	18/06/2020	23:00	1.8	112.5	19/06/2020	23:00	1.3	45	20/06/2020	23:00	1.3	45

Date	Time	Wind Speed (m/s)	Wind Direction												
21/06/2020	0:00	0.4	45	22/06/2020	0:00	0.9	45	23/06/2020	0:00	0.4	67.5	24/06/2020	0:00	0.9	67.5
21/06/2020	1:00	0.4	67.5	22/06/2020	1:00	0.4	45	23/06/2020	1:00	0.9	67.5	24/06/2020	1:00	0.4	90
21/06/2020	2:00	0.4	67.5	22/06/2020	2:00	0.4	67.5	23/06/2020	2:00	0.9	45	24/06/2020	2:00	0.4	90
21/06/2020	3:00	0.4	67.5	22/06/2020	3:00	0.9	90	23/06/2020	3:00	0.4	45	24/06/2020	3:00	0.9	67.5
21/06/2020	4:00	0.4	45	22/06/2020	4:00	0.9	67.5	23/06/2020	4:00	0.4	45	24/06/2020	4:00	0.9	90
21/06/2020	5:00	0.4	67.5	22/06/2020	5:00	0.4	67.5	23/06/2020	5:00	0.4	67.5	24/06/2020	5:00	0.4	112.5
21/06/2020	6:00	0.4	45	22/06/2020	6:00	0.9	67.5	23/06/2020	6:00	0.9	67.5	24/06/2020	6:00	0.9	67.5
21/06/2020	7:00	0.4	45	22/06/2020	7:00	0.9	90	23/06/2020	7:00	0.9	45	24/06/2020	7:00	0.9	67.5
21/06/2020	8:00	0.9	45	22/06/2020	8:00	0.9	45	23/06/2020	8:00	0.4	45	24/06/2020	8:00	0.9	67.5
21/06/2020	9:00	0.9	45	22/06/2020	9:00	0.9	67.5	23/06/2020	9:00	0.9	67.5	24/06/2020	9:00	0.9	67.5
21/06/2020	10:00	0.9	45	22/06/2020	10:00	0.9	45	23/06/2020	10:00	0.9	67.5	24/06/2020	10:00	0.4	90
21/06/2020	11:00	1.3	67.5	22/06/2020	11:00	0.9	45	23/06/2020	11:00	0.9	67.5	24/06/2020	11:00	1.3	90
21/06/2020	12:00	0.9	45	22/06/2020	12:00	0.9	45	23/06/2020	12:00	0.9	67.5	24/06/2020	12:00	1.3	112.5
21/06/2020	13:00	0.4	45	22/06/2020	13:00	0.9	45	23/06/2020	13:00	0.9	67.5	24/06/2020	13:00	1.3	90
21/06/2020	14:00	0.9	22.5	22/06/2020	14:00	0.9	45	23/06/2020	14:00	1.3	112.5	24/06/2020	14:00	1.3	90
21/06/2020	15:00	0.9	45	22/06/2020	15:00	0.9	67.5	23/06/2020	15:00	0.9	67.5	24/06/2020	15:00	1.3	45
21/06/2020	16:00	0.9	45	22/06/2020	16:00	0.9	90	23/06/2020	16:00	1.3	112.5	24/06/2020	16:00	1.3	67.5
21/06/2020	17:00	0.9	45	22/06/2020	17:00	0.9	90	23/06/2020	17:00	0.9	45	24/06/2020	17:00	0.9	67.5
21/06/2020	18:00	0.4	45	22/06/2020	18:00	1.3	67.5	23/06/2020	18:00	0.9	67.5	24/06/2020	18:00	0.9	45
21/06/2020	19:00	0.4	45	22/06/2020	19:00	1.8	45	23/06/2020	19:00	1.3	67.5	24/06/2020	19:00	1.8	67.5
21/06/2020	20:00	0.9	45	22/06/2020	20:00	1.8	45	23/06/2020	20:00	1.3	67.5	24/06/2020	20:00	2.2	67.5
21/06/2020	21:00	0.4	45	22/06/2020	21:00	1.3	45	23/06/2020	21:00	0.9	67.5	24/06/2020	21:00	0.9	45
21/06/2020	22:00	0.9	45	22/06/2020	22:00	1.3	67.5	23/06/2020	22:00	0.9	67.5	24/06/2020	22:00	0.4	90
21/06/2020	23:00	0.9	45	22/06/2020	23:00	1.3	67.5	23/06/2020	23:00	1.8	90	24/06/2020	23:00	0.9	90

Date	Time	Wind Speed (m/s)	Wind Direction												
25/06/2020	0:00	0.4	90	26/06/2020	0:00	0.4	67.5	27/06/2020	0:00	0.4	135	28/06/2020	0:00	1.3	112.5
25/06/2020	1:00	0.4	67.5	26/06/2020	1:00	0.4	90	27/06/2020	1:00	0.4	67.5	28/06/2020	1:00	1.3	112.5
25/06/2020	2:00	0.9	67.5	26/06/2020	2:00	0.4	90	27/06/2020	2:00	0.4	67.5	28/06/2020	2:00	0.9	90
25/06/2020	3:00	1.3	90	26/06/2020	3:00	0.9	112.5	27/06/2020	3:00	0.4	90	28/06/2020	3:00	1.3	112.5
25/06/2020	4:00	0.4	90	26/06/2020	4:00	0.4	135	27/06/2020	4:00	0.4	112.5	28/06/2020	4:00	1.3	112.5
25/06/2020	5:00	0.4	112.5	26/06/2020	5:00	0.4	112.5	27/06/2020	5:00	0.4	90	28/06/2020	5:00	0.9	112.5
25/06/2020	6:00	0.4	90	26/06/2020	6:00	0.4	90	27/06/2020	6:00	0.9	112.5	28/06/2020	6:00	1.3	112.5
25/06/2020	7:00	0.4	67.5	26/06/2020	7:00	0.4	90	27/06/2020	7:00	0.9	112.5	28/06/2020	7:00	1.3	112.5
25/06/2020	8:00	0.4	67.5	26/06/2020	8:00	0.4	67.5	27/06/2020	8:00	0.9	112.5	28/06/2020	8:00	1.3	90
25/06/2020	9:00	0.4	90	26/06/2020	9:00	0.4	90	27/06/2020	9:00	0.4	112.5	28/06/2020	9:00	1.3	112.5
25/06/2020	10:00	0.4	90	26/06/2020	10:00	0.4	90	27/06/2020	10:00	0.9	112.5	28/06/2020	10:00	0.9	112.5
25/06/2020	11:00	0.9	67.5	26/06/2020	11:00	0.4	90	27/06/2020	11:00	0.9	135	28/06/2020	11:00	0.9	270
25/06/2020	12:00	0.9	112.5	26/06/2020	12:00	0.4	112.5	27/06/2020	12:00	1.3	112.5	28/06/2020	12:00	0.9	135
25/06/2020	13:00	0.9	112.5	26/06/2020	13:00	0.4	67.5	27/06/2020	13:00	0.9	112.5	28/06/2020	13:00	0.9	135
25/06/2020	14:00	0.4	90	26/06/2020	14:00	0.4	157.5	27/06/2020	14:00	1.3	90	28/06/2020	14:00	0.4	135
25/06/2020	15:00	0.4	90	26/06/2020	15:00	0.9	112.5	27/06/2020	15:00	0.9	112.5	28/06/2020	15:00	0.9	135
25/06/2020	16:00	0.4	67.5	26/06/2020	16:00	0.4	180	27/06/2020	16:00	1.3	112.5	28/06/2020	16:00	0.4	135
25/06/2020	17:00	0.9	45	26/06/2020	17:00	0.4	67.5	27/06/2020	17:00	0.9	112.5	28/06/2020	17:00	0.9	67.5
25/06/2020	18:00	0.9	67.5	26/06/2020	18:00	0.4	67.5	27/06/2020	18:00	0.4	67.5	28/06/2020	18:00	0.4	112.5
25/06/2020	19:00	0.9	112.5	26/06/2020	19:00	0.9	67.5	27/06/2020	19:00	0.4	67.5	28/06/2020	19:00	0.4	45
25/06/2020	20:00	0.9	90	26/06/2020	20:00	0.9	67.5	27/06/2020	20:00	0.9	90	28/06/2020	20:00	0.4	45
25/06/2020	21:00	0.9	90	26/06/2020	21:00	0.4	45	27/06/2020	21:00	0.9	67.5	28/06/2020	21:00	0.4	45
25/06/2020	22:00	0.4	67.5	26/06/2020	22:00	0.9	67.5	27/06/2020	22:00	1.3	112.5	28/06/2020	22:00	0.9	67.5
25/06/2020	23:00	0.4	90	26/06/2020	23:00	0.9	67.5	27/06/2020	23:00	1.3	90	28/06/2020	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
29/06/2020	0:00	0.9	112.5	30/06/2020	0:00	0.9	112.5								
29/06/2020	1:00	1.3	112.5	30/06/2020	1:00	0.9	112.5								
29/06/2020	2:00	1.3	90	30/06/2020	2:00	1.8	112.5								
29/06/2020	3:00	0.9	90	30/06/2020	3:00	1.3	90								
29/06/2020	4:00	1.3	112.5	30/06/2020	4:00	1.8	112.5								
29/06/2020	5:00	1.3	90	30/06/2020	5:00	1.3	112.5								
29/06/2020	6:00	0.9	112.5	30/06/2020	6:00	1.8	112.5								
29/06/2020	7:00	0.4	112.5	30/06/2020	7:00	1.8	112.5								
29/06/2020	8:00	0.9	112.5	30/06/2020	8:00	1.8	112.5								
29/06/2020	9:00	1.3	112.5	30/06/2020	9:00	2.2	112.5								
29/06/2020	10:00	0.9	112.5	30/06/2020	10:00	2.2	112.5								
29/06/2020	11:00	0.9	112.5	30/06/2020	11:00	2.2	112.5								
29/06/2020	12:00	1.3	90	30/06/2020	12:00	1.8	112.5								
29/06/2020	13:00	0.9	90	30/06/2020	13:00	1.8	112.5								
29/06/2020	14:00	1.3	112.5	30/06/2020	14:00	1.8	67.5								
29/06/2020	15:00	1.8	112.5	30/06/2020	15:00	1.3	135								
29/06/2020	16:00	0.9	112.5	30/06/2020	16:00	1.3	112.5								
29/06/2020	17:00	0.9	112.5	30/06/2020	17:00	1.3	112.5								
29/06/2020	18:00	1.3	112.5	30/06/2020	18:00	0.4	90								
29/06/2020	19:00	1.3	112.5	30/06/2020	19:00	0.9	90								
29/06/2020	20:00	1.8	135	30/06/2020	20:00	1.3	90								
29/06/2020	21:00	1.3	135	30/06/2020	21:00	1.3	90								
29/06/2020	22:00	1.3	112.5	30/06/2020	22:00	0.9	67.5								
29/06/2020	23:00	1.3	112.5	30/06/2020	23:00	0.9	90								

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

Location: AM3 – Sky Tower

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter w	eight (g)	Particulate	Elapse	Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		$(^{\circ}C)$	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m³/min)	$(m^3)$	$(\mu g/m^3)$
2/6/2020	Cloudy	32.0	1009.5	17.5889	17.6937	0.1048	1102.81	1126.83	1441	46	46	1.29	1854	57
8/6/2020	Cloudy	29.1	1006.2	14.907	14.9866	0.0796	1133.83	1157.84	1441	46	46	1.29	1860	43
13/6/2020	Cloudy	31.8	1004	15.0945	15.1585	0.064	1159.39	1183.41	1441	47	47	1.31	1891	34
19/6/2020	Sunny	31.0	1010.5	18.3233	18.4191	0.0958	1183.45	1207.47	1441	52	52	1.46	2109	45
23/6/2020	Sunny	32.6	1007.1	15.0464	15.1075	0.0611	1207.55	1231.57	1441	52	52	1.46	2100	29
29/6/2020	Sunny	33.4	1006.1	15.103	15.1473	0.0443	1231.57	1255.6	1442	52	52	1.45	2097	21
												Maxir	num	57
												Minin	num	21
												Aver	age	38
												Action	Level	182

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

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(℃)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m <sup>3</sup> /min)	$(m^3)$	$(\mu g/m^3)$
2/6/2020	Cloudy	32.0	1009.5	17.7131	17.7896	0.0765	1090.96	1114.98	1441	43	43	1.19	1712	45
8/6/2020	Cloudy	29.1	1006.2	18.183	18.2354	0.0524	1114.98	1138.99	1441	42	42	1.16	1671	31
13/6/2020	Cloudy	31.8	1004	17.7713	17.8353	0.064	1139	1163.01	1441	44	44	1.22	1753	37
19/6/2020	Sunny	31.0	1010.5	18.161	18.2138	0.0528	1163.06	1187.07	1441	44	44	1.22	1762	30
23/6/2020	Sunny	32.6	1007.1	18.4015	18.4627	0.0612	1187.12	1211.14	1441	44	44	1.22	1754	35
29/6/2020	Sunny	33.4	1006.1	18.4567	18.5043	0.0476	1211.14	1235.16	1441	44	44	1.21	1750	27
	•		-		_					_		Marria		15

 Maximum
 45

 Minimum
 27

 Average
 34

 Action Level
 187

 Limit Level
 260

Limit Level

260

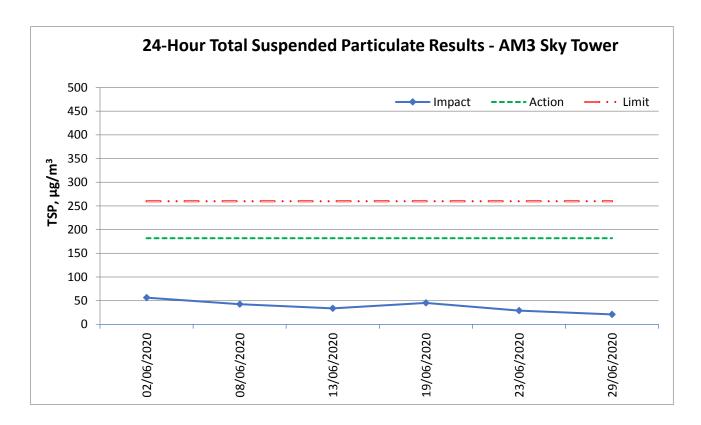
## Location: AM7 – Hong Kong Children's Hospital

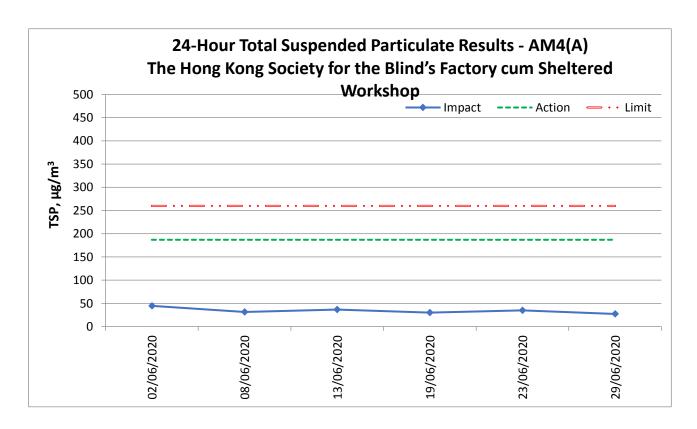
Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		$(^{\circ}\mathbb{C})$	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m³/min)	$(m^3)$	$(\mu g/m^3)$
2/6/2020	Cloudy	32.0	1009.5	18.4864	18.5578	0.0714	5952.43	5976.43	1440	44	44	1.12	1610	44
8/6/2020	Cloudy	29.1	1006.2	18.292	18.3524	0.0604	5976.43	6000.45	1441	44	44	1.12	1618	37
13/6/2020	Cloudy	31.8	1004	17.7751	17.8553	0.0802	6000.48	6024.49	1441	48	48	1.24	1783	45
19/6/2020	Sunny	31.0	1010.5	18.365	18.4371	0.0721	6024.52	6048.54	1441	50	50	1.31	1882	38
23/6/2020	Sunny	32.6	1007.1	18.3926	18.4594	0.0668	6048.58	6072.61	1442	50	50	1.30	1873	36
29/6/2020	Sunny	33.4	1006.1	18.2403	18.2953	0.055	6072.61	6096.63	1441	50	50	1.30	1868	29
												Maxin	num	45
												Minin	num	29
												Avera	age	38
												Action 1	Level	181

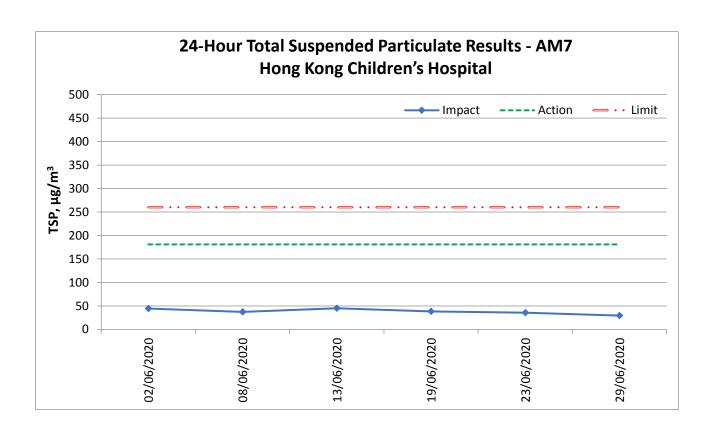
Limit Level

260

## 24-hour average TSP







Appendix H – 1-hr TSP	monitoring results	s and graphical pres	entation

Location:
AM3 Sky Tower

Date	Measurement Period			1-hr TSP concentration, µg/m³	Weather	
	13:00	-	14:00	55		
2/6/2020	14:00	-	15:00	56	Cloudy	
	15:00	-	16:00	57		
	13:00	-	14:00	47		
8/6/2020	14:00	-	15:00	48	Cloudy	
	15:00	-	16:00	52		
	9:00	-	10:00	34		
13/6/2020	10:00	-	11:00	35	Cloudy	
	11:00	-	12:00	39		
	13:00	-	14:00	38		
19/6/2020	14:00	-	15:00	37	Sunny	
	15:00	-	16:00	42		
	9:00	-	10:00	34		
23/6/2020	10:00	-	11:00	27	Sunny	
	11:00	-	12:00	26		
	9:00	-	10:00	22		
29/6/2020	10:00	-	11:00	23	Sunny	
	11:00	-	12:00	28		
Maximum				57		
N	Iinimum			22		
1	Average			39		
Ac	tion Level			297		
Li	mit Level			500		

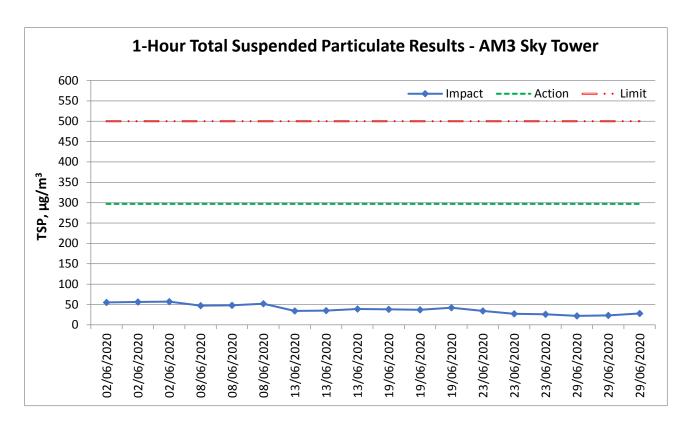
Location:
AM4(A) The Hong Kong
Society for the
Blind's Factory
cum Sheltered
Workshop

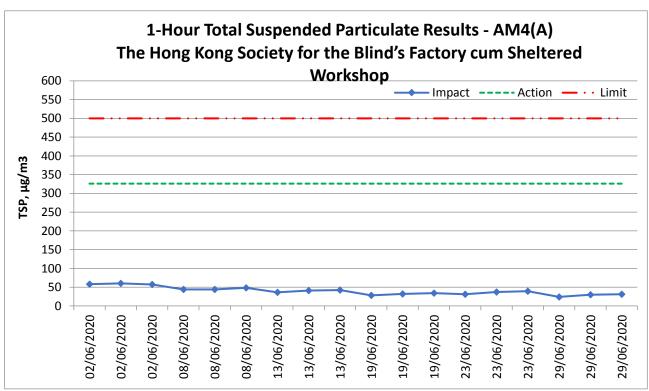
Date	Measurement Period			1-hr TSP concentration, μg/m <sup>3</sup>	Weather	
	9:00	-	10:00	58		
2/6/2020	10:00	-	11:00	60	Cloudy	
	11:00	-	12:00	57		
	13:00	-	14:00	44		
8/6/2020	14:00	-	15:00	44	Cloudy	
	15:00	-	16:00	48		
	8:35	-	9:35	36		
13/6/2020	9:35	-	10:35	41	Cloudy	
	10:35	-	11:35	42		
	13:00	-	14:00	28		
19/6/2020	14:00	-	15:00	32	Sunny	
	15:00	-	16:00	34		
	9:00	-	10:00	31		
23/6/2020	10:00	-	11:00	37	Sunny	
	11:00	-	12:00	39		
	9:00	-	10:00	24		
29/6/2020	10:00	-	11:00	30	Sunny	
	11:00	-	12:00	31		
Maximum				60		
N	1inimum			24		
1	Average			40		
Ac	tion Level			326		
Li	mit Level			500		

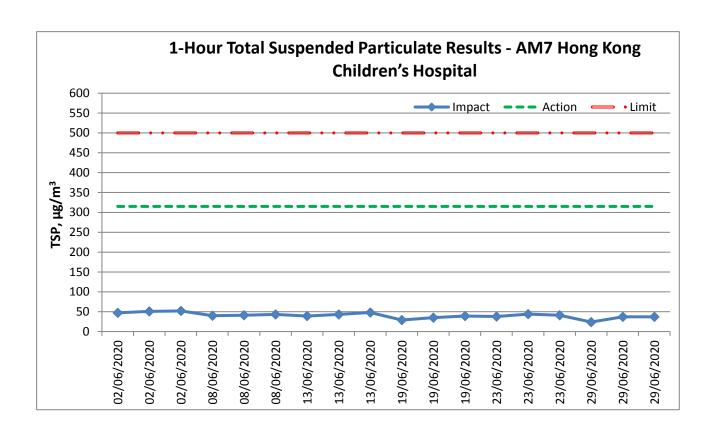
Location:
AM7 Hong Kong
Children's
Hospital

Date	Measurement Period			1-hr TSP concentration, µg/m <sup>3</sup>	Weather	
	9:00	-	10:00	47		
2/6/2020	10:00	-	11:00	51	Cloudy	
	11:00	-	12:00	52		
	10:00	-	11:00	40		
8/6/2020	11:00	-	12:00	41	Cloudy	
	17:00	-	18:00	43		
	13:00	-	14:00	39		
13/6/2020	14:00	-	15:00	43	Cloudy	
	15:00	-	16:00	48		
	9:30	-	10:30	29		
19/6/2020	10:30	-	11:30	35	Sunny	
	17:00	-	18:00	39		
	13:00	-	14:00	38		
23/6/2020	14:00	-	15:00	44	Sunny	
	15:00	-	16:00	41		
	13:00	-	14:00	24		
29/6/2020	14:00	-	15:00	37	Sunny	
	15:00	-	16:00	37		
M	laximum			52		
N	ſinimum			24		
	Average			40		
Ac	tion Level			315		
Li	mit Level			500		

## 1-hour average TSP







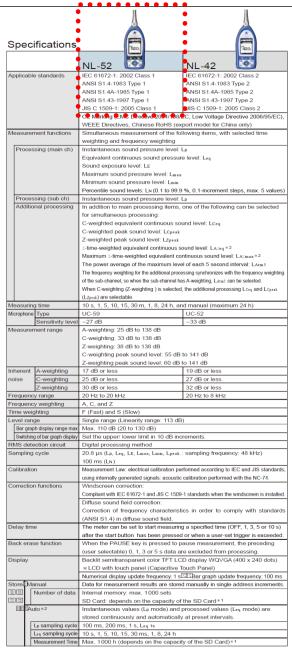
# **Appendix I – Event and Action Plan for air quality**

F. 4	Action									
Event	ET	IEC	Supervisor / ER	Contractor						
Action Level being exceeded by one sampling	<ol> <li>Identify source and investigate the causes of exceedance;</li> <li>Inform Contractor, IEC and Supervisor /ER;</li> <li>Repeat measurement to confirm finding.</li> </ol>	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;	$\mathcal{E}$	Confirm receipt of notification of exceedance in writing;	Discuss with ET and IEC on proper remedial actions;						
sampling	2. Inform Contractor, IEC and Supervisor /ER;	working method; 3. Discuss with ET and	<ul><li>2. Notify Contractor;</li><li>3. In consolidation with the</li></ul>	2. Submit proposals for remedial actions to						
	3. Increase monitoring frequency to daily;	Contractor on possible remedial measures;	IEC, agree with the Contractor on the remedial	Supervisor /ER and IEC within three working day						
	4. Discuss with IEC and Contractor on remedial actions required;	1	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;	<ul><li>2. Check Contractor's working method;</li><li>3. Discuss possible remedial</li></ul>	<ul><li>in writing;</li><li>Notify Contractor;</li><li>In consolidation with the</li></ul>	2. Discuss with ET and IEC on proper remedial actions;						
	3. Repeat measurement to confirm finding;		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	Action									
Event	ET	IEC	Supervisor / ER	Contractor						
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	on the effectiveness of the proposed remedial measures.	<ul> <li>implemented;</li> <li>4. Supervise implementation of remedial measures;</li> <li>5. Conduct meeting with ET and IEC if exceedance continues.</li> </ul>	within three working days of notification; 4. Implement the agreed proposals.						
Limit Level being exceeded by two or more consecutive sampling	<ol> <li>Notify IEC, Supervisor /ER, Contractor and EPD;</li> <li>Repeat measurement to confirm findings;</li> <li>Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance;</li> <li>Increase monitoring frequency to daily;</li> <li>Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and Supervisor /ER</li> </ol>	submitted by ET;  2. Check Contractor's working method;  3. Discuss with Supervisor /ER, ET, and Contractor on the potential remedial actions;  4. Review Contractor's remedial actions whenever necessary to assure their	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise implementation of remedial measures;</li> <li>If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Discuss with ET and IEC on proper remedial actions;</li> <li>Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further remedial actions if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> </ol>						
	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 reca				
		Start up via file settings previously stored on SD card possible				
Wavefo	orm recording *3					
File	format	Uncompressed waveform WAVE file				
San	npling frequency	Select 48 kHz, 24 kHz or 12 kHz				
Dat	ta length	Select 24 bit or 16 bit				
Outputs	DC output	Output DC signals using a frequency weighting characteristic selected by processing				
	Output voltage	2.5 V, 25 mV / dB at bar graph display full scale				
	AC output	Output AC signals using a frequency weighting characteristic selected by				
		processing or by A, C, Z-weighting.				
	Output voltage	1 ∨ (rms values) at bar graph display full scale				
	Comparator	Turns on when the open-collector output exceeds the set value				
	output*2	(max. applied voltage 24 V, max. current 60 mA, allowable dissipation 300 mW				
USB	[3]	Allows USB to be connected to a computer and recognized as a removable disk				
12 50 50		Allows USB to be controlled via communication commands				
RS-232C communication		Allows for RS-232C communication via use of a dedicated cable				
Data c	ontinuous output*2					
Тур	e of Instantaneous value	Lp				
data Processed value		Leq, Lmax, Lmin, Lpeak				
Out	tput interval	100 ms				
Print o	out	Printing of measurement results on dedicated printer DPU-414				
Power	requirements	Four IEC R6 (size AA) batteries (alkaline or rechargeable batteries) or external power suppl				
Bat	tery life (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 power voltage	5 to 7 V (rated voltage: 6 V)				
Cui	rrent consumption	Approximately 90 mA (normal operation, rated voltage)				
Ambie	nt Temperature	−10 to +50 °C				
conditi	ons Humidity	10 to 90 % RH (non-condensing)				
Dustpr	oof / water-resistant	IP code: IP54 (except for microphone)				
perforr	mance * 4	See precautions regarding waterproofing				
Dimen	sions, weight	Approx. 250 (H) x 76 (W) x 33 mm(D), approx. 400 g (with batteries)				
Suppli	ed accessories	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)				

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-60∨M
Waveform analysis software	CAT-WAVE
SD Card 512 MB	SD-512M
SD Card 2 GB	SD-2G
AC adapter (100 V to 240 V)	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.

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 co



RION CO., LTD. 3-20-41, Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

Tel: +81-42-359-7888 Fax: +81-42-359-7442

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

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

1011-4 E 212.P.D

### Calibration Certificate of Sound Level Meter



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

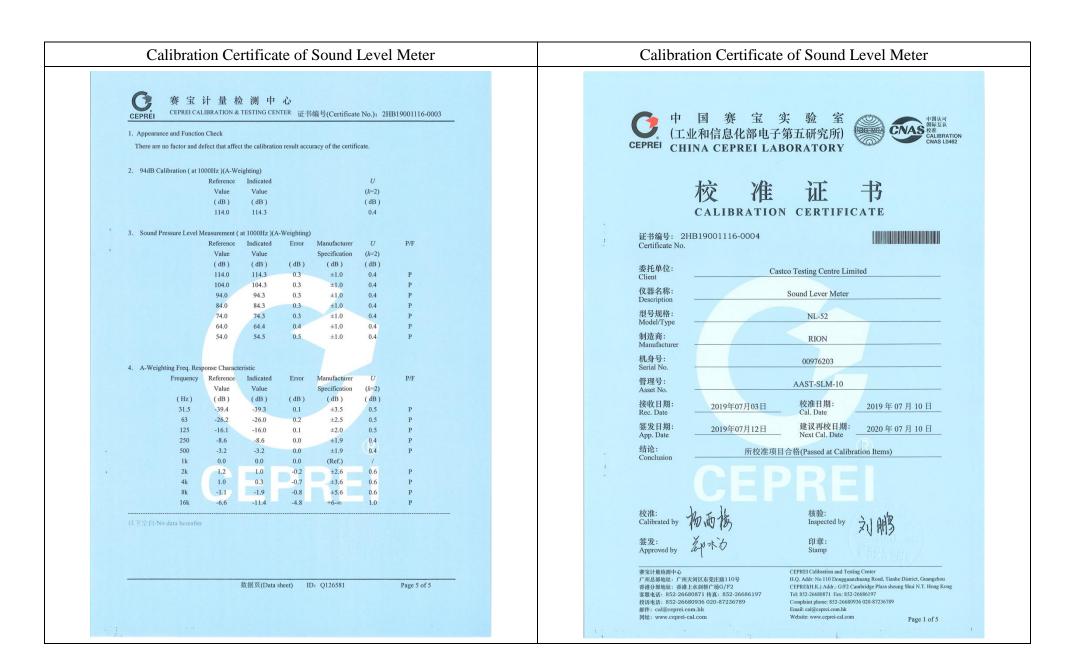
7. 证书中"P"、"合格"代表"测量结果在允许范围内", "F"、"不合格"代表"测量结果不在允许范围内", "N/A"代表"不适用"。本证书报告的判定规则和结论仅供参考,使用人员应结合实际测量的 要求合理使用,如考虑测量结果测量不确定度的影响等。

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

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.

- 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

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):
- 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) (Certificate No./Due Date/Traceability to) (Description) 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。

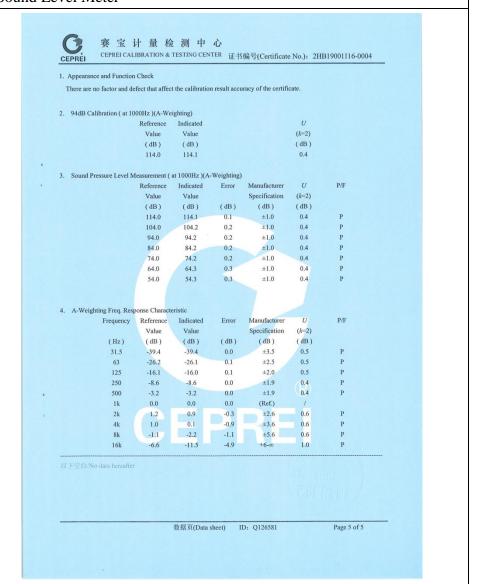
"P" and "Pass" in this certificate stand for "Low Limit; the measured value ≤ High Limit", "F" and "Fail" stand for "the measured value < Low Limit or the measured value > High Limit", "NA" stands for "Not Applicable ". The judgment rules and conclusions of this certificate are for reference only. Users 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.

- 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.)

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-25 UC-34			
	1/2-inch microphones	IEC 61094-1 Type LSZaP UC-99 UC-99 UC-93A UC-92 UC-26 UC-30 UC-31 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	The property of the same of th			
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				

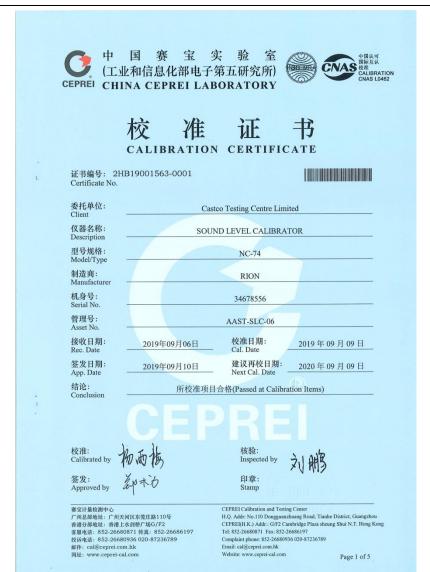
Specification subject to change without notice.



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。

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):

   JJG 176-2005 声校准器检定规程: 声压级:94dB、104dB、114dB,(31.5Hz~16kHz):频率:31.5Hz~16kHz;谐波
- 失真:0~10%,(20Hz~20kHz)。
- 详细内容请查看CNAS阿站中注册编号为L0402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): 技术指标

证书号/有效期/溯源单位 名 称 (Specification) (Description) (Certificate No./Due Date/Traceability to) 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℃ 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  $U_{\text{rel}}$  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

73 , IVA TVA (TABLE) - THE TRIFFE BUTTE MAN THE BUTTE MAN THE TRIFFE BUTTE MAN THE BUTTE BUTT 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.

- 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.)

Page 3 of 5



#### 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。

(Hz)

1003.6

There are no factor and defect that affect the calibration result accuracy of the certificate.

2. 声压级(Sound Pressure Level)

标称值	标准值	误差	允许误差	结论	U
(Nominal)	(Reference)	(Error)	(Limit)	(Pass/Fail)	(k=2)
(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
94	93.8	0.2	±0.3	P	0.10
3. 频 率(Frequence	y)				
标称值	标准值	误差	允许误差	结论	$U_{\mathrm{rel}}$
(Nominal)	(Reference)	(Error)	(Limit)	(Pass/Fail)	

(Hz)

1000

4. 失具度(Distortio	on)		
声压级	失真度	允许范围	结论 Urel
(SPL.)	(Distortion)	(Limit)	(Pass/Fail)
(dB)	(%)	(%)	(P/F) (%)
94	0.85	≤3	P 5

(Hz)

-3.6

(Hz)

(P/F)

(%)

0.01

数据页(Data sheet) ID: Q524500

Page 5 of 5

## 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: 2020年07月10日 2019年07月12日 App. Date Next Cal. Date

结论:

Conclusion

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

印章:

Stamp

所校准项目合格(Passed at Calibration Items)

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。

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):JJG 176-2005 声校准器检定规程: 声压级:94dB、104dB、114dB,(31.5Hz~16kHz):频率:31.5Hz~16kHz;谐波
- 失真:0~10%,(20Hz~20kHz)。
- 详细內容清查看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): 安 森 证书号店效期/测源单位 技术指标

40 100	III. 13 27 13 VY 301/ 00/10/1-17	22.1.1111
(Description)	(Certificate No./Due Date/Traceability to)	(Specification)
标准传声器/Condenser Microphone	GFJGJL1001190203574/2020-02-26/304所	0.05dB~0.1dB
	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。

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 F3 , NA 1948 (1947)。 予証 13以日ロリアに別処が中国化区が多考,以出入以区が日矢時間重り要求合理使用,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.

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.)

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<sup>a</sup> 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 Germany Tel: +49 241 523030

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.) 9.5 mm (0.38 in.) Diameter of Articulating Knuckle

Power Requirements Four AA-size batteries or AC adapter

Velocity range 0 to 20.00 m/s (0 to 4000 ft/m Velocity range 0 to 30.00 m/s + (0 to 6000 ft/m Temperature Flow Humidity, wet bulb, dew point Straight or -A Straight or -A Probe Straight Variable time constant + data logging data logging Statistics Review data LogDat2 software Free Certificat 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.

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## 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
Address :	33, On Kui Street, Fanling, N.T.
Date of receipt :	21 February 2020

3. Date of performance of the calibration

Date of calibration : 24 February 2020



Approved Signatory Warren Yeung

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 velocity

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		
0 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	a S/VLa	 AL:
Relative humidity; %RH	57 %RH		

#### 7. Reference equipment used in the calibration

Item	Model	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

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Page 2 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

Appendix K – Noise monitoring results and graphical presentation

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

D	Temp	XX7 .1	Measured Noise Level at M11, dB(A)						T	
Date	(°C)	Weather	-	Time		Baseline	$\mathcal{L}_{Aeq}$	$L_{A10}$	$L_{A90}$	Limit
02/06/2020	32.0	Cloudy	9:54	-	10:24	68.3	68.5	71.2	63	75
08/06/2020	29.1	Cloudy	15:00	-	15:30	68.3	67.8	70.9	64.1	75
19/06/2020	31.0	Sunny	14:34	-	15:04	68.3	68.5	71.5	61.3	75
23/06/2020	32.6	Sunny	11:03	-	11:33	68.3	67.4	70.1	60.9	75
29/06/2020	33.4	Sunny	11:08	-	11:38	68.3	66.6	67.0	66.1	75
			Maximum			68.5				
			Minimum			66.6				

Average

67.8

# M12 - Hong Kong Children's Hospital

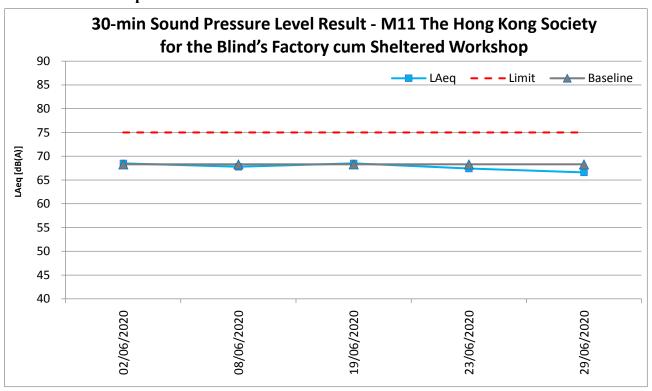
	0 0									
D .	Temp	XX / .1			Measure	ed Noise Le	vel at M12	dB(A)		<b>T</b> • •,
Date	(°C)	Weather		Γiı	me	Baseline	$\mathcal{L}_{Aeq}$	L <sub>A10</sub>	L <sub>A90</sub>	Limit
02/06/2020	32.0	Cloudy	11:14	-	11:44	61.9	66.7	68.1	63.5	75
08/06/2020	29.1	Cloudy	11:24	-	11:54	61.9	70.2	70.7	68.0	75
19/06/2020	31.0	Sunny	10:37	-	11:07	61.9	64.6	66.5	62.1	75
23/06/2020	32.6	Sunny	14:03	-	14:33	61.9	66.1	68.6	63.1	75
29/06/2020	33.4	Sunny	13:43	-	14:13	61.9	68.4	68.7	68.1	75

 Maximum
 70.2

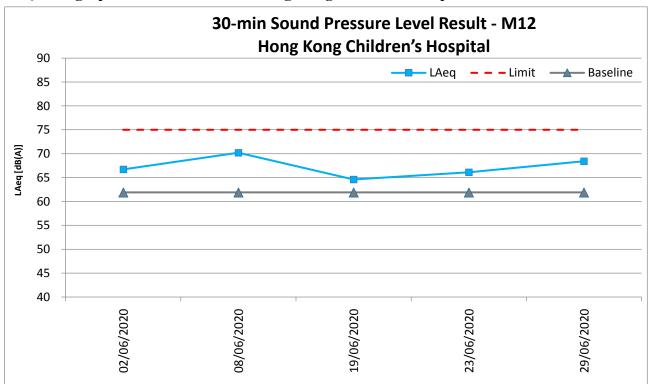
 Minimum
 64.6

 Average
 67.6

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

E4		Acı	tion	
Event	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded	<ol> <li>Notify Supervisor / ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, Supervisor / ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> <li>(The above actions should be taken within 2 working days after the exceedance is</li> </ol>	results submitted by the ET;	1. Confirm receipt of notification of failure in writing;  2. Notify Contractor;  3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;  4. Supervise the implementation of remedial measures.  (The above actions should be taken within 2 working days after the exceedance is identified.)	<ol> <li>Submit noise mitigation proposal to IEC and Supervisor / ER;</li> <li>Implement noise mitigation proposals.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified.)</li> </ol>
Limit Level being exceeded	identified.)  1. Inform IEC, Supervisor /ER, Contractor and EPD;  2. Repeat measurement to confirm findings;  3. Increase monitoring frequency;  4. Identify source and investigate the cause of exceedance;  5. Carry out analysis of Contract's working procedure;  6. Discuss remedial measures required with the IEC, Contractor and Supervisor /ER;  7. Assess effectiveness of	1. Discuss the potential remedial actions with Supervisor /ER, ET and Contractor;  2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly.  (The above actions should be taken within 2 working days after the exceedance is identified.)	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	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification;</li> <li>Implement the agreed proposal;</li> <li>Submit further proposal if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> <li>(The above actions should be</li> </ol>

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

Appendix 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	<ol> <li>Identify Source.</li> <li>Inform IEC and Supervisor /ER.</li> <li>Discuss remedial actions with IEC, Supervisor /ER and Contractor.</li> <li>Monitor remedial actions until rectification has been completed.</li> </ol>		<ol> <li>Notify Contractor.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	Amend working methods.     Rectify damage and undertake any necessary replacement.
Repeated Non-conformity	<ol> <li>Identify Source.</li> <li>Inform IEC and Supervisor /ER.</li> <li>Increase monitoring frequency.</li> <li>Discuss remedial actions with IEC, Supervisor /ER and Contractor.</li> <li>Monitor remedial actions until rectification has been completed.</li> <li>If non-conformity stops, cease additional monitoring.</li> </ol>	Contractor on possible remedial measures.	<ol> <li>Notify Contractor.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	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.: ED/2018/01

## **Monthly Summary Waste Flow Table for June 2020**

	Ac	tual Quantitie	s of Inert C&D	Materials Gener	ated Monthl	y	Ac	tual Quantities of	C&D Wastes (	Generated Mon	thly
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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m³)	(in '000m³)	(in '000m³)	(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	7.335			5.557	1.778	18.77					0.0127
May	8.024			5.642	2.382	0.620					0.0264
Jun	8.866			7.983	0.887						0.0113
Sub-total	42.782	0	0	32.257	10.529	20.323	0	0	0	0	0.0596
July											
Aug											
Sep											
Oct											
Nov											
Dec					-			-			
Total	42.782	0	0	32.257	10.529	20.323	0	0	0	0	0.0596

	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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(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 50,000m<sup>3</sup> (ER Part 8 Clause 8.7.5(d)(ii) refers)

# **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、石棉岩減計劃,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
-	<b>廢物造出口許可證申</b> 壽
	申請批准使用油污分散劑及類似物質
	<b>候物入海許可證申請</b>

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)

5<sup>th</sup> 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。

請注意,任何人違反牌照的任何條文,均屬違法,可處罰款二十萬元及監禁六個 月。

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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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<sup>例胜制。</sup>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.

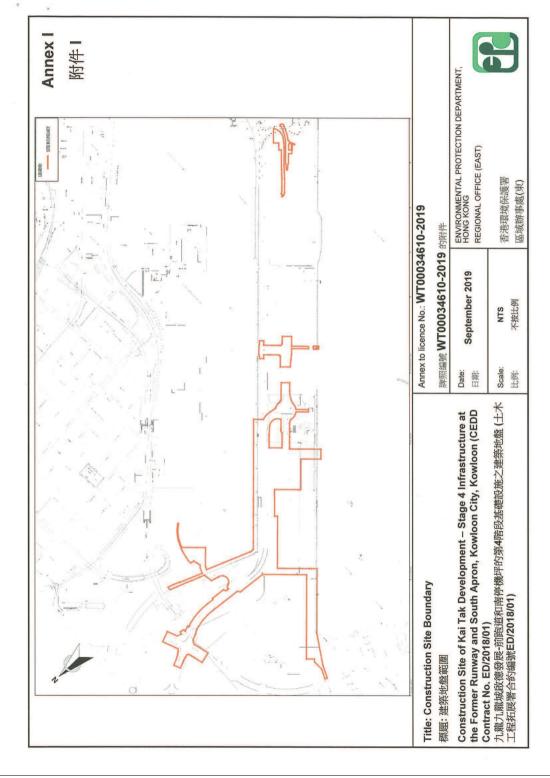
倘若持牌人更改或擬更改其廢水處理設施、生產程序、或所用原料的性質、或有其他足以改變其排放的性質及成份或可導致永久性終止排放的事情,必須在 14 日內以傳真(傳真號碼: 2756 8588)或電郵(電郵地址: hotline\_e@epd.gov.hk) 書面通知監督:環境保護署署長,區域辦事處(東)九龍城區。

#### 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." 持牌人須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)

5<sup>th</sup> 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

些权 ( Ine Aumoru

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<sup>(Note a)</sup>. 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<sup>明正3。</sup>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<br/>Suspended Solids<br/>機学固體Unit 單位<br/>mg/LSample Type 取樣形式<br/>GrabFrequency 頻率<br/>Bimonthly<br/>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 CONST	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 RESERVA	es	, 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)

**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 <a href="Kai Tak Development">Kai Tak Development</a> - 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

(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

[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 ark and the second assessed					
			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.		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.				
h Validity of the construction noise permit for the use of the nowered mechanical equipment						
0.		• •	urg			
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

<ul> <li>Type of prescribed construction work which may be carried out insi</li> </ul>
--

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	音許可證編號:	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
			<b>参見附頁。</b>	
	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	<b>肾</b> 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. 在地盤範圍內可進行的訂明建筑工程。

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:

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 ≤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
	Pinn	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:

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
<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	) <del></del>	發電機,備有優質機動設備標籤顯示聲功率級≤95分貝 (A)	壹
	: <del></del> -	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 sacras sapelina		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:

Identification code of item of powered mechanical equipment (if applicable)		Description of item of powered mechanical equipment	No. of units
Group E	<del></del>	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:

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
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
F組	æ	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
	1.000	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

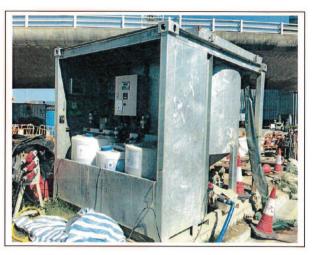


Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤95dB(A) 發電機,備有優質機動設備標籤顯示聲功率級≤95 分貝(A)



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



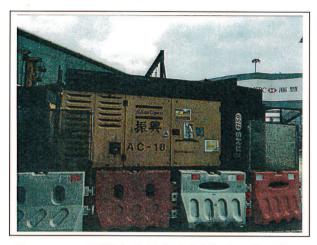
Welding machine (electric) 焊接機 (電動)



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  $\leq 104$ dB(A) (2)

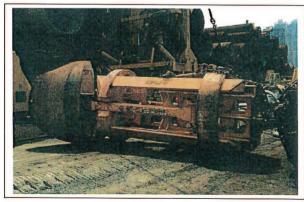
空氣壓縮機,備有噪音標籤顯示聲功率級≦104分貝(A) (二)



#### 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

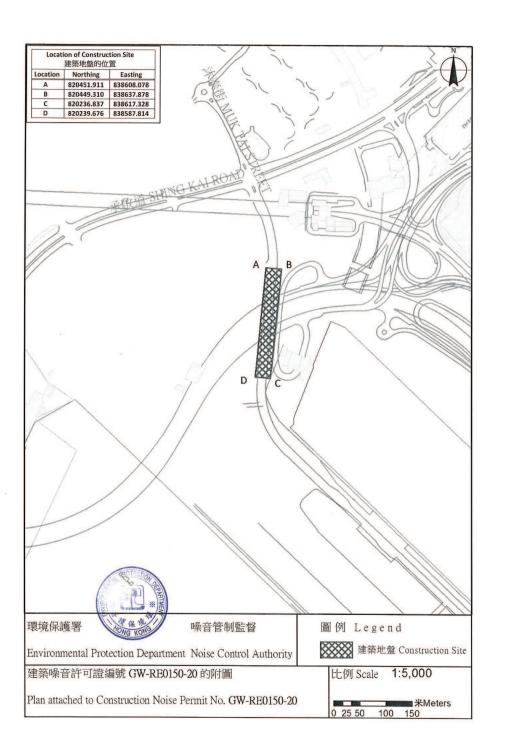


CNP 165 Piling, large diameter bored, oscillator 大直徑鑽孔樁,擺動機



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

001487

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	Powered 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.								
	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		
is cons	\n.			
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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	<b>建築工程</b> ,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	<b>支/或進行</b> 訂	明建築工程的	<b></b>				
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:	, , , , , , , , , , , , , , , , , , ,	HP/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 <del>部分</del> /全音	水*位於指定	<b>范圍之內/外</b>	* .				
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	<b>还看</b> ;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。		T IX III	
	此部分許可證屆滿日期及時間:	日期	不適用	時間
c.	<del>本許可證可夾附經監督認可的地盤圖則,以</del> 該地盤圖則須存放於建築地盤供監督隨時查		證准予	<del>進行訂明建築工程的地</del>
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)	
	<del></del>	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 Company	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			
Crown 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-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)

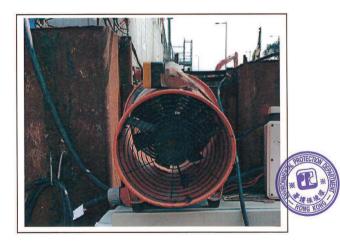


CNP 283 Water pump, submersible (electric) 潛水泵 (電動)

### 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



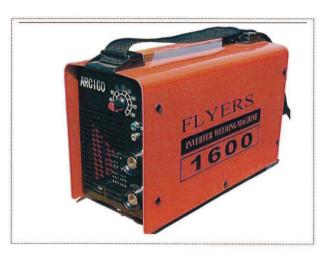
CNP 048 Crane, mobile (diesel) (1) 起重機,流動(油渣)(1)





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

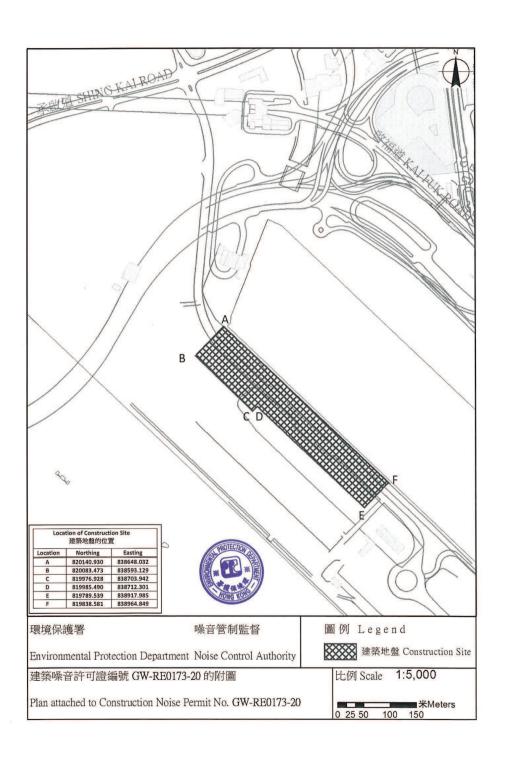


Welding machine (electric) 焊接機 (電動)





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:<u>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(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 hou	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

lidity of the constru	ction noise permit for	the carrying out of the prescribe	d construction work	:
te and time of comr	nencement:	Not applicable	at	Not applicable
ys and hours:	Not applicable			
is part of the permit	expires on ;	Not applicable	at	Not applicable
of prescribed cons	truction-work-describ	ed in this permit. The layout pla		
ner conditions impo	sed on the carrying or	ut of the prescribed construction	work:	
onstruction noise pation.	permit or a copy the	reof must be displayed on the	construction site at	all vehicular entrances for publi
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
this 31st	day of March	20 20		
1)-622//(21)/79617722)/(29///49)/(29//				
			\	P.
		Signed:		
			(TANG W	ni man Lian)
	s part of the permit s part of the permit s part of the permit p layout plan(s), en of prescribed cons made available for mer conditions impo	te and time of commencement:  ys and hours:  Not applicable.  s part of the permit expires on:  layout plan(s), endorsed by the Author of prescribed construction work described available for inspection by the Author of prescribed construction work described available for inspection by the Author of prescribed construction on the carrying of the conditions imposed on the carrying of the conditions.	te and time of commencement:  Not applicable.  s part of the permit expires on:  Not applicable  layout plan(s), endorsed by the Authority, may be attached with the pe of prescribed construction work described in this permit. The layout planed available for inspection by the Authority.  ter conditions imposed on the carrying out of the prescribed construction on the carrying out of the prescribed construction on the attion.  Instruction noise permit or a copy thereof must be displayed on the attion.  The layout planed with the permit of the prescribed construction on the prescribed construction on the carrying out of the prescribed construction on the lation.	s part of the permit expires on : Not applicable at solve the permit expires on : Not applicable at solve the permit expires on : Not applicable at solve the permit expires on : Not applicable at solve the permit expires on : Not applicable at solve the permit expires on : Not applicable at solve the permit expires on the permit expires on the permit expires on the permit. The layout plan(s) is(are) required made available for inspection by the Authority. The permit expires on the carrying out of the prescribed construction work:  Support of the permit expires on : Not applicable at solve the permit to indicate the office of the permit to indicate the experiment. The layout plan(s) is(are) required made available for inspection by the Authority. The layout plan(s) is(are) required made available for inspection by the Authority.  Support of the permit to indicate the experiment to indicate the experi

EPD76A(s)

<sup>\*</sup> 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:	GW-RE022	8-20	
致:	PEN'	TA - OCEAN CONST	TRUCTION CO.,	LTD.	
撞擊	式打	「椿工程以外的建	築工程及/	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。若不打 ,而且會受到檢控。	
				條件	
1.	可信	吏用機動設備及/	/或進行訂明	建築工程的建築地盤:	
	詳終	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	3/01)。	地段編號:	
		盤範圍(即可使用 則是本建築噪音部	機動設備及	進行訂明建築工程的地方範圍)已描劃於夾附的圖則	上,而該
2.	該‡	也盤部分/全部*位	位於指定範圍	图之内/外*。	
3.	機里	動設 備			
	a .	在地盤範圍內可	使用的各項标	幾動設備:	
		各項機動設備的 (如適用的		各項機動設備的說明	數目
		A組	 CNP065	發電機,備有優質機動設備標籤顯示聲功率級≦93分貝(A) 鑽 ,手提型 (電動)	<u></u>
		B組		發電機,備有優質機動設備標籤顯示壁功率級≤93分貝(A)	壹
	Ь.	可使用機動設備			
		生效日期及時間		二零二零年四月五日 凌晨零時	
		***************************************		<ul><li>括星期日)的凌晨零時至晚上十二時,公眾假日以外的七時至晚上十二時【但須注意條件3.d.1.有關可以便</li></ul>	
		<b>数</b>		○时至吡上十一时【但須注息採件3.0.1.有關可以收	州上列俄
		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	
	С.	建築地盤須備有 等照片須經監督		許可證所述每件機動設備的照片各一幀, 供監督隨時	F查看;該
	d.	規限使用機動設	備的其他條例	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	以人士參閱。

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		
Group B	General holiday including Sunday	0000 – 2400 hours		
	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 60	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
7000485F0	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)





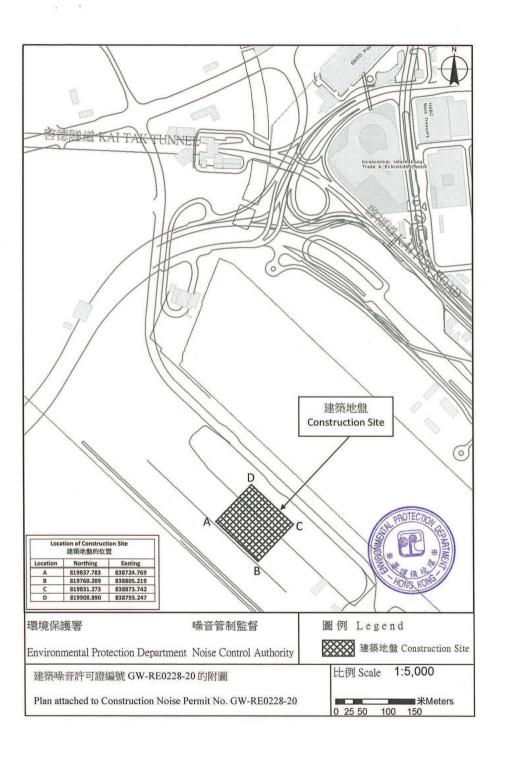
Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level  $\leq\!93$  dB(A)

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)



#### FORM 3

[reg.5(a)]

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

CO	NS	TRUCTION NOISE PERMIT	NO.	GW-RE0449-20				
To	:]	PENTA-OCEAN CONSTRUC	CTION CO.,	LTD.				
pow	cribe	struction noise permit is issued in a mechanical equipment for the pured construction work, subject to the of itions may result in the permit being	pose of carryin conditions set or	g out construction work other ut below. The carrying out of c	than percuss	ive piling and/or	the carrying out of	
				CONDITIONS				
1.	Cor	astruction site where the powered me	chanical equipn	nent and/or prescribed construct	tion work may	be employed:		
	Full	address: Kai Tak Development - S	tage 4 infrastru	cture at the former runway and	south apron (	Work Area Part 3),	Kai Tak, Kowloon	
	(CE	DD Contract No. ED/2018/01).			Lot No.:			
	The	site boundary, that is, the boundar struction work may be carried out is	y of the area w	vithin which the powered mech	hanical equipn	nent may be used	and the prescribed	
2.	* P.	ART/WHOLE of the site falls * WIT	HIN/OUTSIDE	a designated area.				
3.	Pov	vered Mechanical Equipment						
	a.	Items of powered mechanical equip	ment which ma	TAG 501 911 ALSO	77-77			
		powered mechanical equipment (if applicable)		Description of iter powered mechanical eq		Я	No. of units	
			Refer to at	tached sheet				
							*	
	b.	Validity of the construction noise p				. Casa C		
		Date and time of commencement:						
		Days and hours: 0000-2400 hour						
		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].						
		This part of the permit expires on:						
	c.	One photograph, endorsed by the permit is required to be kept on the					construction noise	
	d.	Other conditions imposed on the us 1. The powered mechanical equ	NOT THE PERSON NAMED IN COLUMN		e operated du	uring the hours sh	own below:	
		General holiday (including S	Sunday)	0700 – 1900 hours				
		Any day not being a general		1900 – 2300 hours				
		2. Only one group of the powered	mechanical equ	ipment listed in condition 3.a. s	snall be allowe	d to operate at any	ume.	

4.	Prescribed Construction	Monle
4.	Prescribed Construction	WOLK

a.	Type of prescribed	construction	work which n	nay be carried	out inside the	e site boundary
----	--------------------	--------------	--------------	----------------	----------------	-----------------

ar St.	
leat	Not applicable
e layout plan(s) is(are) required to	
	of the prescribed construction work  pleat  pleat  ad with the permit to indicate the k  ne layout plan(s) is(are) required to  d construction work:

4		$\checkmark$
	Signed:	~
	***************************************	(TANG Wai-man, Lisa)
		for Authority

\* Delete as necessary

#### [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

築噪	音許可證編號:	GW-RE0449-20	
1	PENTA-OCEAN CONS	TRUCTION CO., LTD.	~~~~
式打	噪音許可證是按照《噪音 椿工程以外的建築工程及 築工程,許可證可遭撤銷	管制條例》第8條的規定而發出的。現准予使用 /或進行訂明建築工程,但須受以下條件規限。 ,而且會受到檢控。	幾動設備以進行
		條件	
可	「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	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3部分)
(=	土木工程拓展署合約編號E	ED/2018/01)。 地段編號:	<del></del>
	z盤範圍(即可使用機動設係 ]是本建築噪音許可證的一	带及進行訂明建築工程的地方範圍)已描劃於夾附的 ·部分∘	7圖則上,而該圖
該	、地盤 <del>部分</del> /全部*位於指定	官範圍之內/外*。	
機	動設備		
a.	在地盤範圍內可使用的名	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。	噪音許可證有效期:	
	. 可使用级勤政用的是来		
	生效日期及時間: 二零	二零年六月一日下午七時	
	生效日期及時間: <u>二零</u> 日期及時間: <u>公</u> 眾假日	日(包括星期日)的凌晨零時至晚上十二時,公眾假日	
	生效日期及時間: 二零 日期及時間: 二公眾假 凌晨零時至上午七時及	日(包括星期日)的凌晨零時至晚上十二時,公眾假 下午七時至晚上十二時【但須注意條件3.d.1.有服	
	生效日期及時間: <u>二零</u> 日期及時間: <u>公</u> 眾假日	日(包括星期日)的凌晨零時至晚上十二時,公眾假 下午七時至晚上十二時【但須注意條件3.d.1.有服	
	生效日期及時間: 二零 日期及時間: 公眾假 凌晨零時至上午七時及 動設備的時間】。	日(包括星期日)的凌晨零時至晚上十二時,公眾假 下午七時至晚上十二時【但須注意條件3.d.1.有服	<u> </u>
c	生效日期及時間: 二零 日期及時間: 公眾假 凌晨零時至上午七時及 動設備的時間】。 此部分許可證屆滿日期	日(包括星期日)的凌晨零時至晚上十二時,公眾假日 下午七時至晚上十二時【但須注意條件3.d.1.有關	易可以使用上列機 
	生效日期及時間: 二零 日期及時間: 公眾假 凌晨零時至上午七時及 動設備的時間】。 此部分許可證屆滿日期 建築地盤須備有本建築	日(包括星期日)的凌晨零時至晚上十二時,公眾假見下午七時至晚上十二時【但須注意條件3.d.1.有履 及時間: 二零二零年十一月二十六日晚上 日期 時間 噪音許可證所述每件機動設備的照片各一幀,供置	易可以使用上列機 
	生效日期及時間:二零日期及時間:二零日期及時間: 公眾假見凌晨零時至上午七時及動設備的時間】。此部分許可證屆滿日期,此部分許可證屆滿日期,建築地盤須備有本建築等照片須經監督認可。 規限使用機動設備的其	日(包括星期日)的凌晨零時至晚上十二時,公眾假見下午七時至晚上十二時【但須注意條件3.d.1.有履 及時間: 二零二零年十一月二十六日晚上 日期 時間 噪音許可證所述每件機動設備的照片各一幀,供置	易可以使用上列機 
	生效日期及時間:二零日期及時間:二零日期及時間: 公眾假見凌晨零時至上午七時及動設備的時間】。此部分許可證屆滿日期,此部分許可證屆滿日期,建築地盤須備有本建築等照片須經監督認可。 規限使用機動設備的其	日(包括星期日)的凌晨零時至晚上十二時,公眾假 下午七時至晚上十二時【但須注意條件3.d.1.有履 及時間: 二零二零年十一月二十六日晚上 日期 時間 噪音許可證所述每件機動設備的照片各一幀,供置 他條件: 別在條件3.a.內的機動設備:	易可以使用上列機 

4.	訂	明	建	築	T	程

a .	在地般	節園內了	可推行的!	訂明建築工程

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
h	

. 可進	行訂明建築口	L程的建築噪	音許可證有效	期:		
生效	日期及時間	: 丕適用				
此部	分許可證屆滿		:	不違	i用	
		100.000.000.000		日期	時間	
			地盤圖則,以 監督隨時查看		予進行訂明建築工程	呈的
	Market M. Caller C. Lat at 1977 and 1977	英工程的其他的				
		2 2 20.010				
*********				F		
			***************************************			
**********						
		其副本必須展	示於建築地盤	的所有車輛入口	<b>處</b> ,給予公眾人士參	·閱
<b>上建築噪</b>	音許可證或		> 1 30 1 C— 21 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		· · · · · · · · · · · · · · · · · · ·	
<b>と建築噪</b>	音許可證或:					
<b>左建築</b> 噪	(音許可證或:					
≿建築噪 	·音許可證或:					-
		5 F	27 📙			
		5月	27 目			-

\* 刪去不適用者

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。

### Sheet Attached to Construction Noise Permit No. <u>GW-RE0449-20</u>

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

Identification code of item of powered mechanical equipment (if applicable)		nowered mechanical equipment		
Group A	CNP 021	Bar bender and cutter (electric)	Two	
		Welding machine (electric)	Three	
		Generator, with Quality Powered Mechanical	One	
		Equipment Label showing a Sound Power Level of $\leq$ 93dB(A)		
	CNP 048	Crane, mobile (diesel)	One	
	1999	Dump truck with grab, 5.5 tonne <gross td="" tonne<="" vehicle="" weight="" ≤38=""><td>One</td></gross>	One	
		Air blower (electric)	Six	
	CNP 283	Water pump, submersible (electric)	Six	
		Wastewater treatment plant	Two	
Group B		Poker, vibratory, hand-held (electric)	One	
	CNP 047	Concrete pump, stationary	One	
	CNP 283	Water pump, submersible (electric)	Six	
	<del>100</del>	Wastewater treatment plant	Two	
215		Generator, with Quality Powered Mechanical	One	
Grand Control of the	*	Equipment Label showing a Sound Power Level of ≤ 93dB(A)		
	CNP 044	Concrete lorry mixer	One	

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

#### 建築噪音許可證 編號 GW-RE0449-20 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	CNP 021	鋼筋彎曲機及切割機 (電動)	貢
		焊接機 (電動)	叁
	<del></del> .	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 048	起重機,流動(油渣)	壹
		抓斗卸土車,5.5 噸<總重量 ≤38 噸	壹
		吹風機 (電動)	陸
	CNP 283	潛水泵 (電動)	陸
		污水處理器	貢
B組		混凝土震動機,手提 (電動)	壹
	CNP 047	混凝土泵,固定	壹
	CNP 283	潛水泵 (電動)	陸
		污水處理器	貢
		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 044	混凝土攪拌車	壹

簽署:

慧鄧

**監督** (鄧慧敏 代行)

### Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0449-20</u> 建築噪音許可證編號: <u>GW-RE0449-20</u> 的照片

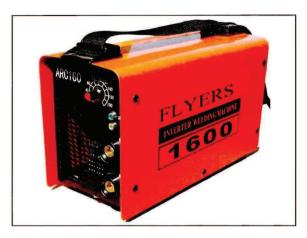


Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A) (1) 發電機,備有優質機動設備標籤顯示聲功率級≤93 分貝(A) (一)



Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level ≤93 dB(A) (2) 發電機,備有優質機動設備標籤顯示聲功率級≤93 分貝(A) (二)

## Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0449-20</u> 建築噪音許可證編號:<u>GW-RE0449-20</u> 的照片



Welding machine (electric) 焊接機 (電動)



Air blower (electric) 吹風機 (電動)

### Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0449-20</u> 建築噪音許可證編號: <u>GW-RE0449-20</u> 的照片



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



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



### Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0449-20</u> 建築噪音許可證編號: <u>GW-RE0449-20</u> 的照片



Wastewater treatment plant 污水處理器



CNP 047 Concrete pump, stationary 混凝土泵,固定

### Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0449-20</u> 建築噪音許可證編號: GW-RE0449-20 的照片



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



CNP 044 Concrete lorry mixer 混凝土攪拌車

### Photograph(s) attached to Construction Noise Permit No. <u>GW-RE0449-20</u> 建築噪音許可證編號: <u>GW-RE0449-20</u> 的照片

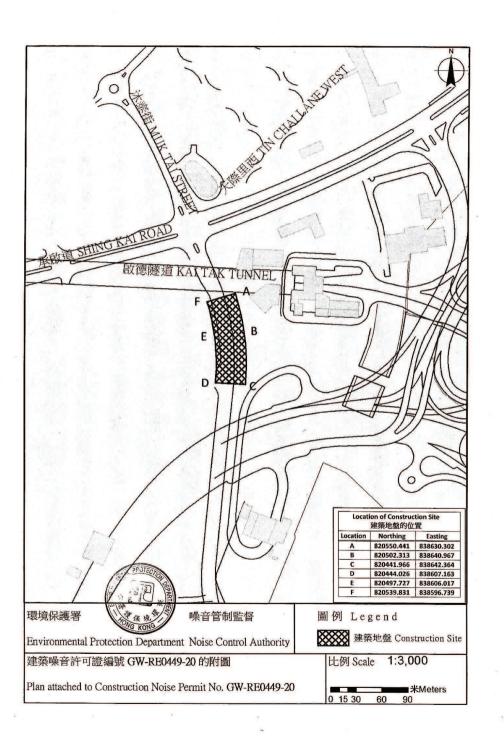


Dump truck with grab, 5.5 tonne<gross vehicle weight≦38 tonne 抓斗卸土車,5.5 噸<總重量≦38 噸



CNP 021 Bar bender and cutter (electric) 鋼筋彎曲機及切割機 (電動)





Appendix P – Environmental Mitigation Implementation Schedule (EMIS)

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
S3.2		8 times daily watering of the work site with active dust emitting	^
		activities.	
S3.2	S4.8	Implementation of dust suppression measures stipulated in Air	
		Pollution Control (Construction Dust) Regulation. The following	
		mitigation measures, good site practices and a comprehensive dust	
		monitoring and audit programme are recommended to minimize	
		cumulative dust impacts.	
		- Stockpiling site(s) should be lined with impermeable sheeting	^
		and bunded. Stockpiles should be fully covered by	
		impermeable sheeting to reduce dust emission.	
		- Misting for the dusty material should be carried out before	۸
		being loaded into the vehicle.	
		- Any vehicle with an open load carrying area should have	٨
		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	٨
		the road between the washing facilities and the exit point should	
		be paved with concrete, bituminous materials or hardcores.	
		- Every main haul road should be scaled with concrete and kept	٨
		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	n Schedule for I	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 for Asphalt Paver, Breaker,	^*
		Excavator and Hand-held breaker and full enclosure for Air	
		Compressor, Bar Bender, Concrete Pump, Generator and Water	
		Pump.	
S3.3		Good Site Practice:	
S3.3		- Only well-maintained plant should be operated on-site and	^
		plant should be serviced regularly during the construction	
		program.	
		- Silencers or mufflers on construction equipment should be	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	٨
		utilized, wherever practicable, in screening noise from on-site	
		construction activities.	
		- Scheduling of Construction Works during School	N/A
		Examination Period	

Implementatio	Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status	
S3.4		Construction Runoff  Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion.		
		Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:		
S3.4		- use of sediment traps.	٨	
S3.4		- adequate maintenance of drainage systems to prevent flooding and overflow.	^*	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	<b>Environmental Protection Measures / Mitigation Measures</b>	Status
	S5.8	- Surface run-off from construction sites should be discharged	٨
		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	٨
		maintained and the deposited silt and grit should be removed	
		regularly, at the onset of and after each rainstorm to prevent	
		local flooding. Any practical options for the diversion and	
		re-alignment of drainage should comply with both engineering	
		and environmental requirements in order to provide adequate	
		hydraulic capacity of all drains. Minimum distance of 100 m	
		should be maintained between the discharge points of	
		construction site run-off and the existing saltwater intakes.	
	S5.8	- Earthworks final surfaces should be well compacted and the	^
		subsequent permanent work or surface protection should be	
		carried out immediately after the final surfaces are formed to	
		prevent erosion caused by rainstorms. Appropriate drainage like	
		intercepting channels should be provided where necessary.	
	S5.8	- Measures should be taken to minimize the ingress of rainwater	^
		into trenches. If excavation of trenches in wet seasons is	
		necessary, they should be dug and backfilled in short sections.	
		Rainwater pumped out from trenches or foundation excavations	
		should be discharged into storm drains via silt removal facilities.	
	S5.8	- Open stockpiles of construction materials (e.g. aggregates,	^
		sand and fill material) on sites should be covered with tarpaulin	
		or similar fabric during rainstorms.	
	S5.8	- Manholes (including newly constructed ones) should always be	NA
		adequately covered and temporarily sealed so as to prevent silt,	
		construction materials or debris from getting into the drainage	
		system, and to prevent storm run-off from getting into foul	
		sewers. Discharge of surface run-off into foul sewers must	
		always be prevented in order not to unduly overload the foul	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	<b>Environmental Protection Measures / Mitigation Measures</b>	Status
Kei.	& DAA Kei.	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.	
S3.4		Sediment tanks of sufficient capacity, constructed from pre-formed	٨
		individual cells of approximately 6 to 8 m <sup>3</sup> capacity, are	
		recommended as a general mitigation measure which can be used	
		for settling surface runoff prior to disposal. The system capacity is	
		flexible and able to handle multiple inputs from a variety of sources	

Implementation	on Schedule for	Water Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		and particularly suited to applications where the influent is pumped.	
S3.4		Open stockpiles of construction materials (for examples, aggregates,	^
		sand and fill material) of more than 50 m <sup>3</sup> should be covered with	
		tarpaulin or similar fabric during rainstorms. Measures should be	
		taken to prevent the washing away of construction materials, soil,	
		silt or debris into any drainage system.	
S3.4		Manholes (including newly constructed ones) should always be	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	٨
		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		Drainage	^
<i>.</i>		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	
S2 /		should be no direct discharge of effluent from the site into the sea.	^
S3.4		All temporary and permanent drainage pipes and culverts provided	I

Implementatio	on Schedule for	Water Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	<b>Environmental Protection Measures / Mitigation Measures</b>	Status
		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 conditions of contract, to ensure that site management is optimised	

Development Ref.	- Roads D3A & D4A Ref.	and that disposal of any solid materials, litter or wastes to marine waters does not occur.  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	Status
	S5.8	waters does not occur.  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	^
	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	^
	S5.8	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	۸
		rock / soil anchoring should as far as practicable be re-circulated after sedimentation. When there is a need for final disposal, the	
		after sedimentation. When there is a need for final disposal, the	
		•	
		wastewater should be discharged into storm drains via silt removal	
		wastewater should be discharged into storm drains via shi removar	
		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	
	05.0	the ambit of regional office (RO) of EPD.	^
	S5.8	Accidental Spillage  Contractor must register as a chamical wester producer if chamical	
		Contractor must register as a chemical waste producer if chemical	
		wastes would be produced from the construction activities. The	
		Waste Disposal Ordinance (Cap 354) and its subsidiary regulations	
		in particular the Waste Disposal (Chemical Waste) (General)	
		Regulation, should be observed and complied with for control of	
		chemical wastes.  Any service shop and maintenance facilities should be located on	

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

Implementatio	Implementation Schedule for Waste Management Measures			
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status	
S3.5		Good Site Practices  It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to.  Recommendations for good site practices during construction activities include:		
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.	^	
S3.5	S6.7	- Training of site personnel in proper waste management and	۸	

Implementation Schedule for Waste Management Measures  EIA for KTD   EIA for KTD   Environmental Protection Measures / Mitigation Measures			64.4
Development Ref.	- Roads D3A & D4A Ref.	Environmental i rotection weasures / whitigation weasures	Status
		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	٨
		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	٨
		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	٨
		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	٨
		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	٨
		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:	
S3.5		- Where it is unavoidable to have transient stockpiles of C&D	٨

EIA for KTD   EIA for KTD   Environmental Protection Measures / Mitigation Measures   Development   - Roads D3A		Status	
Ref.	& D4A Ref.		
		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	٨
		impervious sheeting.	
S3.5		- Every vehicle should be washed to remove any dusty materials	٨
		from its body and wheels before leaving a construction site.	
S3.5		- The area where vehicle washing takes place and the section of	٨
		the road between the washing facilities and the exit point should	
		be paved with concrete, bituminous materials or hardcores.	
S3.5		- The load of dusty materials carried by vehicle leaving a	٨
		construction site should be covered entirely by clean	
		impervious sheeting to ensure dust materials do not leak from	
		the vehicle.	
S3.5		- All dusty materials should be sprayed with water prior to any	^
55.5		loading, unloading or transfer operation so as to maintain the	
		dusty materials wet.	
S3.5		- The height from which excavated materials are dropped should	^
55.5		be controlled to a minimum practical height to limit fugitive	
		dust generation from unloading.	
S3.5		WI 11' ' ' COD ' ' 1 ' 11' C'11 ' '	^
33.3			
		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	
		amount of waste generated and avoid unnecessary generation		
		of waste.		
S3.5		Chemical Waste	٨	
		After use, chemical wastes (for example, cleaning fluids, solvents,		
		lubrication oil and fuel) should be handled according to the Code of		
		Practice on the Packaging, Labelling and Storage of Chemical		
		Wastes. Spent chemicals should be collected by a licensed collector		
		for disposal at the CWTF or other licensed facility, in accordance		
		with the Waste Disposal (Chemical Waste) (General) Regulation.		
	S6.7	Separation of chemical wastes for special handling and appropriate	٨	
		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.		

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	٨	
S3.8.12		Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.	NA	
S3.8.12		Control of night-time lighting.	٨	
S3.8.12		Erection of decorative screen hoarding.	٨	
	S7.9	Construction Site Control  - CM1 - Minimized construction area and contractor's temporary works areas.	^	
		- CM2- Control of night-time lighting and glare by hooding all lights.	۸	

Implementatio	Implementation Schedule for Landscape and Visual Measures			
EIA for KTD		<b>Environmental Protection Measures / Mitigation Measures</b>	Status	
		- 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:			
^ Compliance of mitigation measure.		X	Non-compliance of mitigation measure.
N/A Not Applicable at this stage.		<ul> <li>Non-compliance but rectified by the contractor.</li> </ul>	
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:	4 June 2020	Date:	11 June 2020
Mitigation Measures:	Stockpile was been	Mitigation Measures:	Haul road was sprayed with
	covered properly.		water to maintain the entire
			road surface wet.





Date:	24 June 2020	Date:	24 June 2020
Mitigation Measures:	Drip trays were	Mitigation Measures:	The noise barrier was
	provided for chemical		mounted on concrete
	containers.		breaker.

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

**Reporting Month: June 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 complaint was received in January 2020 to		
		June 2020.		