14-6-2021 By hand

Environmental Protection Department

Environmental Assessment Division

Metro Assessment Group

Kowloon Section (2)

27th floor, Southorn Centre,

130 Hennessy Road,

Wan Chai, Hong Kong

(Attn: Mr. TANG Ho Him, Matthew)

Dear Mr. TANG,

Contract No. EDO 15/2018

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

Submission of Monthly EM&A Report for May 2021

I refer to the Environment Permit (EP) No. EP-337/2009 and EP-445/2013/A for the captioned project.

Pursuant to Condition 3.3 of the EP-337/2009 and Condition of the 3.2 of the EP-445/2013/A, please find enclosed four hard copies and one electronic copy of Monthly EM&A Report for May 2021, which has been certified by the ET leader and verified by the IEC for your reference.

Thank you very much for your attention and please feel free to contact Mr. Lee at 2618 2166 should you require further information.

Yours faithfully,

For and on behalf of

Ka Shing Management Consultant Limited

AKCL

Applied knowledge center limited

Company Secretary

Encl. Monthly EM&A report in May 2021



Ref.: CEDKTDS4EM00_0_0157L.21

10 June 2021

By Post and Email

AECOM Asia Company Limited 8/F, Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Shatin, Hong Kong

Attention: Mr. Clive Cheng

Dear Sir,

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

Monthly EM&A Report for May 2021

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

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

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

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



Y H Hui

Independent Environmental Checker

c.c.

CEDD

Attn.: Mr. Ronald Siu

Fax: 2739 0076

Ka Shing

Attn.: Mr. Chan Pang

By email

Penta-Ocean

Attn.: Mr. Daniel Ho

Fax: 2572 4080

Environmental Monitoring and Audit Report for

Contract No. ED/2018/01 –

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

Contract No.: EDO 15/2018

May 2021

(Version 1.0)

Certified By:

(Environmental Team Leader)

| Table of Content | Page |
|--|------|
| EXECUTIVE SUMMARY | 1 |
| Breaches of Action and Limit Levels | 1 |
| Complaint log | 1 |
| Notifications of summons and successful prosecutions | 2 |
| Report changes | 2 |
| Key construction works in the reporting month | 3 |
| Future key issues | 3 |
| 1. INTRODUCTION | 5 |
| Project Background | 5 |
| Project Organization | 6 |
| Works Area and Construction Programme | 6 |
| Construction works undertaken during reporting month | 7 |
| Submission Status under the Environmental Permits | 7 |
| 2. AIR QUALITY MONITORING | 9 |
| Monitoring Requirements | 9 |
| Monitoring Locations | 9 |
| Monitoring Parameters, Frequency and Duration | 9 |
| Monitoring Equipment | 10 |
| Monitoring Methodology and QA/QC Procedure | 11 |
| Wind Data Monitoring | 13 |
| Action and Limit Levels | 13 |
| Impact Air Quality Monitoring results | 14 |
| 3. NOISE MONITORING | 16 |
| Monitoring Requirements | 16 |
| Monitoring Locations | 16 |
| Monitoring Parameters, Frequency and Duration | 16 |

| Table of Content | Page |
|--|------|
| EXECUTIVE SUMMARY | 1 |
| Breaches of Action and Limit Levels | 1 |
| Complaint log | 1 |
| Notifications of summons and successful prosecutions | 2 |
| Report changes | 2 |
| Key construction works in the reporting month | 3 |
| Future key issues | 3 |
| 1. INTRODUCTION | 5 |
| Project Background | 5 |
| Project Organization | 6 |
| Works Area and Construction Programme | 6 |
| Construction works undertaken during reporting month | 7 |
| Submission Status under the Environmental Permits | 7 |
| 2. AIR QUALITY MONITORING | 9 |
| Monitoring Requirements | 9 |
| Monitoring Locations | 9 |
| Monitoring Parameters, Frequency and Duration | 9 |
| Monitoring Equipment | 10 |
| Monitoring Methodology and QA/QC Procedure | 11 |
| Wind Data Monitoring | 13 |
| Action and Limit Levels | 13 |
| Impact Air Quality Monitoring results | 14 |
| 3. NOISE MONITORING | 16 |
| Monitoring Requirements | 16 |
| Monitoring Locations | 16 |
| Monitoring Parameters, Frequency and Duration | 16 |

| Monitor | ing Equipment | 17 |
|------------|--|------|
| Monitor | ing Methodology and QA/QC Procedure | 17 |
| Mainten | ance and Calibration | 18 |
| Action a | and Limit Levels | 18 |
| Impact I | Noise Monitoring results | 19 |
| 4. | COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS | 20 |
| 5. | LANDSCAPE AND VISUAL MONITORING | 22 |
| Results | and Observations | 22 |
| 6. l | ENVIRONMENTAL SITE INSPECTION AND AUDIT | 23 |
| Site Insp | pection | 23 |
| Status o | f Waste Management | 24 |
| Status o | f Environmental Licenses, Notification and Permits | 24 |
| Impleme | entation Status of Environmental Mitigation Measures | 24 |
| Environ | mental Complaint and Non-compliance | 25 |
| Notifica | tions of summons and successful prosecutions | 25 |
| 7. | FUTURE KEY ISSUES | 26 |
| Constru | ction Programme in the coming month | 26 |
| Environ | mental Site Inspection and Monitoring Schedule for next month | 27 |
| 8. | CONCLUSIONS | 28 |
| List of Ta | bles | |
| Table I | Non-compliance Record in the Reporting Month | |
| Table II | Summary of complaints in the Reporting Month | |
| Table III | Summary of summons and successful prosecutions in the Reporting M | onth |
| Table IV | Summary of future key issues and potential impact in the coming mont | :h |
| Table 1.1 | Contact Information of Key Personnel | |
| Table 1.2 | Major activities of the Project during reporting month | |
| Table 1.3 | Summary of Status of Required Submission of EPs | |

| Table 2.1 | Locations of Air Quality Monitoring Stations |
|-----------|---|
| Table 2.2 | Air Quality Monitoring Parameters, Frequency and Duration |
| Table 2.3 | Air Quality Monitoring Equipment |
| Table 2.4 | Action and Limit Levels of 24-hour average TSP for Construction Dust Monitoring |
| Table 2.5 | Action and Limit Levels of 1-hour average TSP for Construction Dust Monitoring |
| Table 2.6 | Summary of 24-hour average TSP Monitoring Data during the reporting month |
| Table 2.7 | Summary of 1-hour average TSP Monitoring Data during the reporting month |
| Table 3.1 | Locations of Noise Monitoring Stations |
| Table 3.2 | Noise Monitoring Parameters, Frequency and Duration |
| Table 3.3 | Noise Monitoring Equipment |
| Table 3.4 | Baseline Noise Level and Action and Limit Levels for Construction Noise Monitoring |
| Table 3.5 | Summary of Noise Monitoring Data during the reporting month |
| Table 4.1 | Comparison of 24-hour average TSP Monitoring Data with EIA predictions |
| Table 4.2 | Comparison of 1-hour average TSP Monitoring Data with EIA predictions |
| Table 4.3 | Comparison of Noise Monitoring Data with EIA predictions |
| Table 5.1 | Summary of observations of Landscape and Visual impact during the reporting month |
| Table 6.1 | Summary of site inspections observations during the reporting month |
| Table 6.2 | Summary of Environmental Licenses, Notifications and Permits |
| Table 6.3 | Summary of complaints in the Reporting Month |
| Table 6.4 | Summary of summons and successful prosecutions in the Reporting Month |
| Table 7.1 | Summary of future key issues and potential impact in the coming month |

List of 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

List of Appendices

Appendix A – Organization Chart of EM&A Team

Appendix B – Construction Programme

Appendix C – Environmental monitoring schedules

Appendix D – Photographic records

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

Appendix F – Weather information

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

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

Appendix I – Event and Action Plan for air quality

Appendix J – Calibration certificates, catalogue of noise monitoring equipment

Appendix K – Noise monitoring results and graphical presentation

Appendix L – Event and Action Plan for noise

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

Appendix N – Waste Flow Table

Appendix O – Environmental Mitigation Implementation Schedule (EMIS)

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

EXECUTIVE SUMMARY

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

Breaches of Action and Limit Levels

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

Table I Non-compliance Record in the Reporting Month

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

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

Notifications of summons and successful prosecutions

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

Report changes

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

Key construction works in the reporting month

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

Future key issues

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

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

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

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

INTRODUCTION

Project Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.
- 1.2 Contract No. ED/2018/01 Kai Tak Development stage 4 infrastructure at the former runway and south apron (The Project), comprises mainly the design and construction of a dual two- lane Road D3 (Metro Park Section), a single 2-lane Road L12d, a salt water pumping station, a sewage pumping station, landscaped deck and promenade above and adjoining Road D3 (Metro Park Section) respectively, some remaining road works at Road L14, noise barrier at Road D3A, and other associated works at the former runway and south apron. The proposed works are shown in Figure 1 and Figure 2. During the course of the Contract No. ED/2018/01, there may be modification of noise barriers in association with the construction of footbridges connecting to the landscaped deck of Road D3A by developers of adjacent lands (Figure 3). The proposed works and site boundary are shown in Figure 4.
- 1.3 Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.
- 1.4 The construction work under ED/2018/01 comprises the EM&A Manuals (EIA Register Nos. AEIAR-130/2009 for Kai Tak Development and EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A) and Environmental Permit (EP) Nos. EP-337/2009, EP-445/2013 and Variation to the EP (VEP) No. EP-445/2013/A.
- 1.5 Air quality and noise monitoring has been proposed in the EM&A Manual with EIA Register Nos. AEIAR-130/2009 for Kai Tak Development while no air quality and noise monitoring are proposed in EM&A Manual with EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A.

Project Organization

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

Table 1.1 Contact Information of Key Personnel

| Party | Role | Contact Person | Position | Phone No. | Fax No. |
|---|--|-----------------|--------------------------|-----------|-----------|
| Civil Engineering and | ing and Project | Mr. Ronald Siu | Senior Engineer | 3579 2452 | 2739 0076 |
| Development Department (CEDD) | Proponent | Ms. Chan Ka Yan | Engineer | 3579 2458 | 2739 0076 |
| AECOM Asia Co. Ltd. (AECOM) | Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual) | Mr. Clive Cheng | CRE | 3911 4201 | 3911 4288 |
| Ramboll Hong Kong Limited (Ramboll) | Independent Environmental Checker (IEC) | Mr. Y H Hui | IEC | 3465 2850 | 3465 2899 |
| Ka Shing Management Consultant Limited (Ka Shing) | Environmental Team (ET) | Mr. Chan Pang | ET Leader | 6082 2973 | 2120 7752 |
| Penta-Ocean Construction Co., Ltd. (Penta-Ocean) | Contractor | Mr. Lulu Mar | Environmental Officer | 6845 0626 | 3465 8898 |

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

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

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 Condition | EP Condition | Submission | Submission |
|----------------|----------------|----------------|---|-------------|
| EP-337/2009 | EP-445/2013 | EP-445/2013/A | | 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 | 13 Nov 2020 |
| Condition 3.2 | NA | NA | Baseline Monitoring | 2 Jan 2020 |

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

2. AIR QUALITY MONITORING

Monitoring Requirements

2.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009), impact air quality monitoring shall be carried out during the construction phase of the Project. For regular impact monitoring, a sampling frequency of at least once in every six says will be strictly observed at all of the monitoring stations for 24-hour TSP. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days will be undertaken when the highest dust impact occurs.

Monitoring Locations

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

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 | Rooftop |
| Factory cum Sheltered Workshop | Koonop |
| AM7 – Hong Kong Children's Hospital | Rooftop |

Monitoring Parameters, Frequency and Duration

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

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

| Air Monitoring Station | Location for Measurement | Parameter | Duration | Frequency |
|--|--------------------------|--------------------------|------------------------|---------------------|
| AM3 - Sky Tower | Podium floor near T7 | | | |
| AM4(A) - The Hong Kong Society for the Blind's Factory cum | Rooftop | - 24-hour average TSP | - 24 hours - 1 hour | - Once every 6 days |
| Sheltered Workshop AM7 - Hong Kong Children's Hospital | Rooftop | average TSP | - i noui | 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.
 - Any wire fence and gate, to protect the samplers, was not caused any obstruction during monitoring.
 - Permission were obtained to setup the samplers and to obtain access to the monitoring stations.
 - A secured supply of electricity was provided to operate the samplers.
- 2.10 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m³/min. and 1.7 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.11 For TSP sampling, Glass Fiber Filter Media 8" x 10" have a collection efficiency of > 99 % for particles of 0.3 μm diameter were used.
- 2.12 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station.

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

Maintenance/Calibration

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

1-hour TSP Monitoring

Measurement Procedures

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

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

Maintenance/Calibration

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

Wind Data Monitoring

- 2.21 Wind Anemometer was installed at the roof-top of AM7 Hong Kong Children's Hospital with 10m above ground and clear of constructions or turbulence caused by the buildings.
- 2.22 The wind data was captured by a data logger and the data was downloaded at least once per month for analysis.
- 2.23 The wind data monitoring equipment will be re-calibrated at least once every six months.
- 2.24 Wind direction is divided into 16 sectors of 22.5 degrees each.
- 2.25 Details of weather information during the monitoring period are shown in Appendix F.

Action and Limit Levels

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

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

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

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

| Parameter | Air Monitoring Station | Action Level, μg/m ³ | Limit Level, μg/m ³ |
|--------------------|------------------------|------------------------------------|-----------------------------------|
| | AM3 | 297 | 500 |
| 1-hour average TSP | AM4(A) | 326 | 500 |
| | AM7 | 315 | 500 |

Impact Air Quality Monitoring results

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

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

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

<u>Table 2.7 Summary of 1-hour average TSP Monitoring Data during the reporting month</u>

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

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

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

3. NOISE MONITORING

Monitoring Requirements

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

Monitoring Locations

3.4 Two designated monitoring stations were selected for noise monitoring programme. Impact noise monitoring was conducted at two noise monitoring stations in the reporting month. Table3.1 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 | | $L_{	ext{Aeq},}L_{	ext{A10}}$ and $L_{	ext{A90}}$ | 30 - minutes measurement at each monitoring station between 0700 – 1900 hrs on normal weekdays (Monday to Saturday) at |
| M12 - Hong Kong Children's Hospital | Rooftop (Façade) | | 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 | 2 |

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

Monitoring Methodology and QA/QC Procedure

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

meter.

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

Maintenance and Calibration

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

Action and Limit Levels

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

Table 3.4 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 dB(71) |

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit

(CNP) issued by the Noise Control Authority have to be followed.

Impact Noise Monitoring results

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

Table 3.5 Summary of Noise Monitoring Data during the reporting month

| Noise Monitoring Station | Measured L _{Aeq, 30-min} , Average, dB(A) | Measured L _{Aeq, 30-min} , Range, dB(A) | Action Level | Limit Level ^ |
|--------------------------------|---|---|-----------------------|------------------|
| M11 | 68.7 | 68.4 – 69.3 | When one documented | 75 |
| M12 | 64.8 | 62.5 – 65.7 | complaint is received | dB(A) |

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

- 3.21 There were no action level exceedance of noise monitoring and limit level exceedance of L_{Aeq} , $_{30\text{min}}$ 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 | 24-hour av | Itative Maximum verage TSP stration Scenario 2 (Mid 2013 to Late 2016), µg/m³ | Measured 24-hr average TSP in Reporting Month (May 2021) µg/m ³ |
|---|--------------------------|------------|--|---|
| AM3 - Sky Tower | A40^ | 106 | 138 | 30 – 84 |
| AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop | A43^ | 123 | 195 | 37 – 84 |
| AM7 – Hong Kong Children's Hospital | PA60 | NA | NA | 37 – 72 |

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 Late 2016), µg/m³ | Measured 1-hr average TSP in Reporting Month (May 2021) µg/m³ |
|---|--------------------------|-----------|---|--|
| AM3 - Sky Tower | A40 | 217^ | 247^ | 15 – 57 |
| AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop | A43 | 283^ | 409^ | 21 – 54 |
| AM7 – Hong Kong Children's Hospital | PA60 | NA | NA | 23 – 56 |

Note:

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

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

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

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

Note:

- 4.2 24-hour TSP monitoring results at AM3 and AM4(A) were recorded lower than the Scenario 1 (Mid 2009 to Mid 2013) and the Scenario 2 (Mid 2013 to Late 2016) in the EIA Report.
- 4.3 No prediction in the EIA Report for 24-hour TSP monitoring results at AM7.
- 4.4 1-hour TSP monitoring results at AM3 and AM4(A) were recorded lower than the prediction in the EIA Report.
- 4.5 No prediction in the EIA Report for 1-hour TSP monitoring results at AM7.
- 4.6 Noise monitoring results at M11 were recorded lower than the prediction in the EIA Report.
- 4.7 No prediction in the EIA Report for noise monitoring results at M12.

^{*} 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 6, 12, 20 and 27 May 2021 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 |
|--------------------|------------------|---------------------------|-------------------------------|
| 6 May 2021 | No | NA | NA |
| 12 May 2021 | No | NA | NA |
| 20 May 2021 | No | NA | NA |
| 27 May 2021 | No | NA | NA |

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

6. ENVIRONMENTAL SITE INSPECTION AND AUDIT

Site Inspection

- 6.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site inspections were conducted on 6, 12, 20 and 27 May 2021 in the reporting month.
- 6.3 The summaries of site audits are attached in Table 6.1.

Table 6.1 Summary of site inspections observations during the reporting month

| Inspection Date | Key Observations | Recommendations / Actions | Close-out Date / Status |
|-----------------|---|---|------------------------------|
| 6 May | Observation: Chemical waste containers should be suitably labelled. | Action Taken: Containers were labeled. | Closed-out 12 May 2021 |
| 2021 | Observation: Suitable containers should be used to hold the chemical wastes during storage. | Action Taken: Secondary container was provided. | Closed-out 12 May 2021 |
| 12 May 2021 | NA | NA | NA |
| 20 May 2021 | NA | NA | NA |
| 27 May 2021 | NA | NA | NA |

Status of Waste Management

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

Status of Environmental Licenses, Notification and Permits

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

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 June 2019 | N/A |
| Wastewater Discharge License under WPCO | WT00034610-2019 | 26 Sep 2019 | 30 Sep 2024 |
| Waste Disposal Billing Account | 7034450 | 28 June 2019 | N/A |
| Registration as a Chemical Waste Producer | 5218-286-P3182-03 | 18 Jul 2019 | N/A |
| Construction Noise Permit | GW-RE0991-20 | 26 Nov 2020 | 25 May 2021 |
| | GW-RE1044-20 | 10 Dec 2020 | 01 Jun2021 |
| | GW-RE1074-20 | 18 Dec 2020 | 17 Jun 2021 |
| | GW-RE0020-21 | 15 Jan 2021 | 11 Jun 2021 |
| | GW-RE0021-21 | 15 Jan 2021 | 11 June2021 |
| | GW-RE0360-21 | 20 Apr 2021 | 13 Oct 2021 |
| | GW-RE0388-21 | 28 Apr 2021 | 27 Oct 2021 |

<u>Implementation Status of Environmental Mitigation Measures</u>

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

measures during the reporting month is summarized in Appendix O.

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

Environmental Complaint and Non-compliance

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

Table 6.3 Summary of complaints in the Reporting Month

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

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

Notifications of summons and successful prosecutions

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

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 |

| Date of receiving notification of summons or prosecutions | Date of event | Description of event | Action take | Close-out date / Status |
|---|---------------|----------------------|-------------|----------------------------|
| of summons | | | | |
| and | | | | |
| successful | | | | |
| prosecutions | | | | |
| were | | | | |
| received in | | | | |
| the reporting | | | | |
| month. | | | | |

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

7. FUTURE KEY ISSUES

Construction Programme in the coming month

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

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

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

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

- 7.2 The mitigation measures for environmental impact including Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual shall be implemented:
 - Sufficient watering of the works site with the active dust emitting activities,
 - Limitation of the speed for vehicles on unpaved site roads,
 - Properly cover the stockpiles,
 - Good maintenance to the plant and equipment,
 - Use of quieter plant and Quality Powered Mechanical Equipment (QPME),
 - Provide movable noise barriers,
 - Appropriate desilting/ sedimentation devices provided on site for treatment before discharge,
 - Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall,
 - Onsite waste sorting and implementation of trip ticket system,
 - Good management and control on construction waste reduction,
 - Erection of decorative screen hoarding,
 - Strictly following the Environmental Permits and Licenses, and
 - Provide sufficient mitigation measures as recommended in Approved EIA Reports.

Environmental Site Inspection and Monitoring Schedule for next month

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

8. CONCLUSIONS

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

Figure

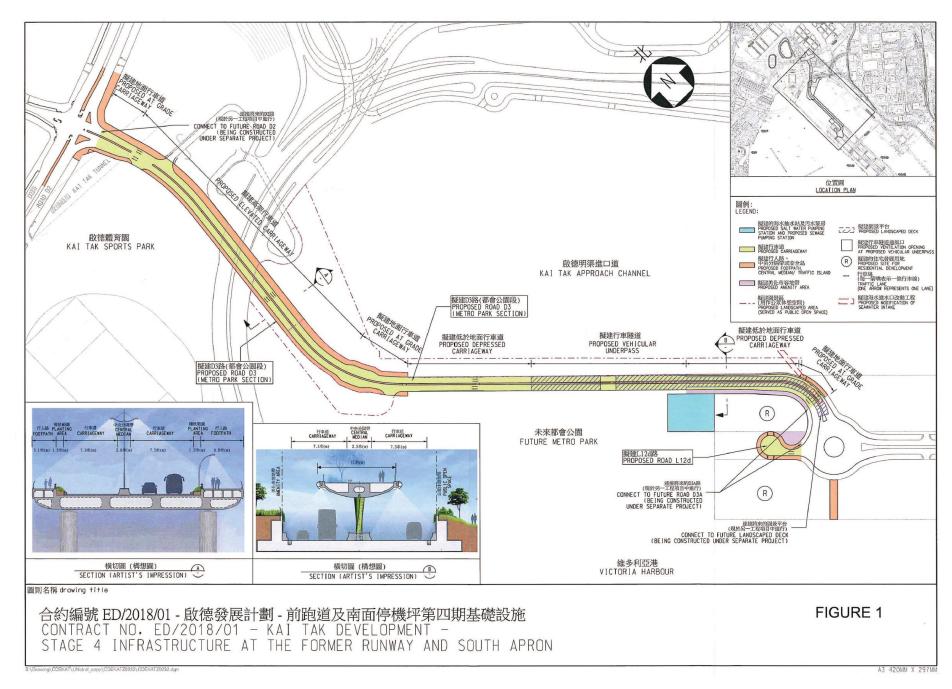


Figure 1 – Proposed works of Contract No. ED/2018/01

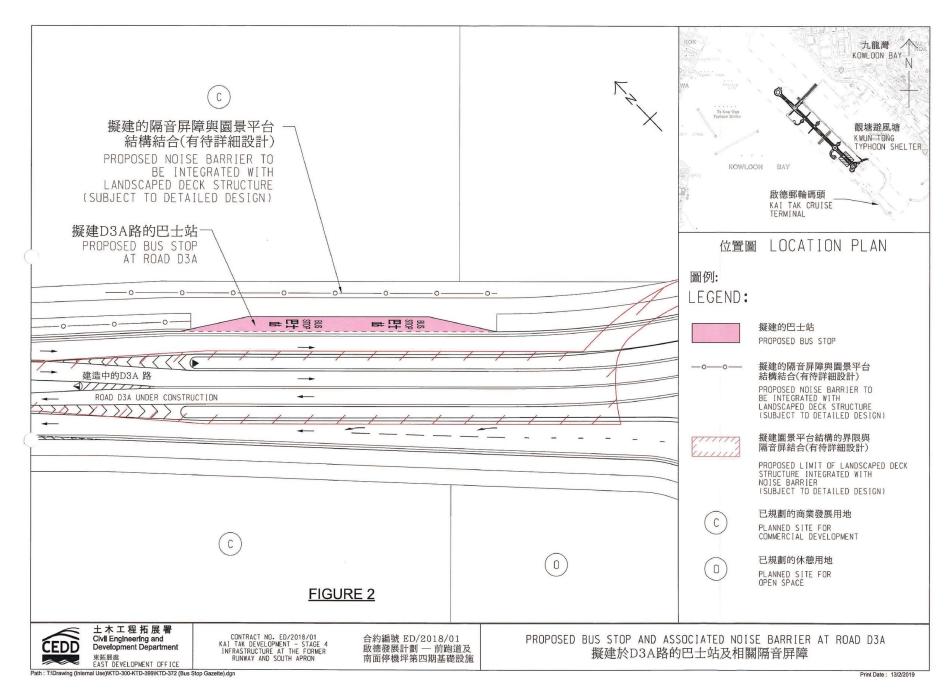


Figure 2 – Proposed Bus Stop And Associated Noise Barrier At Road D3A

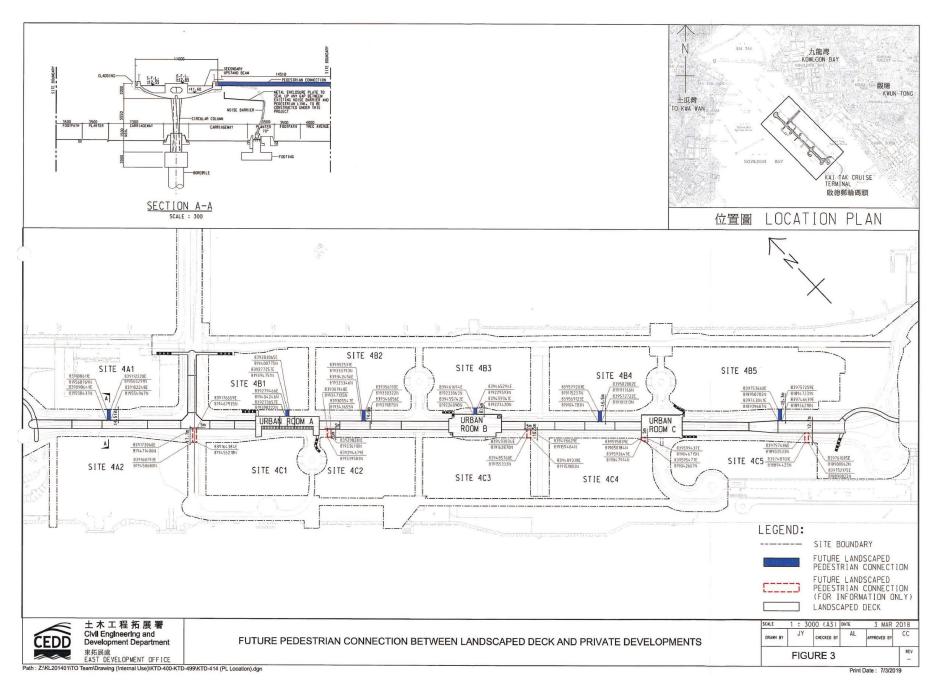


Figure 3 – Future Pedestrian Connection Between Landscaped Deck And Private Developments

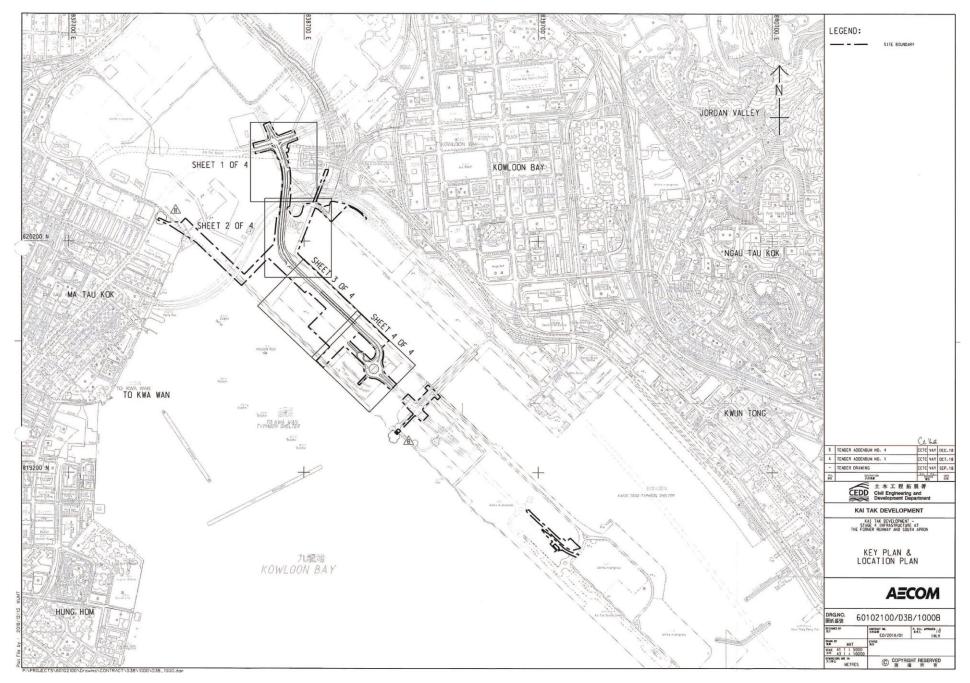


Figure 4 – Site Layout Plan

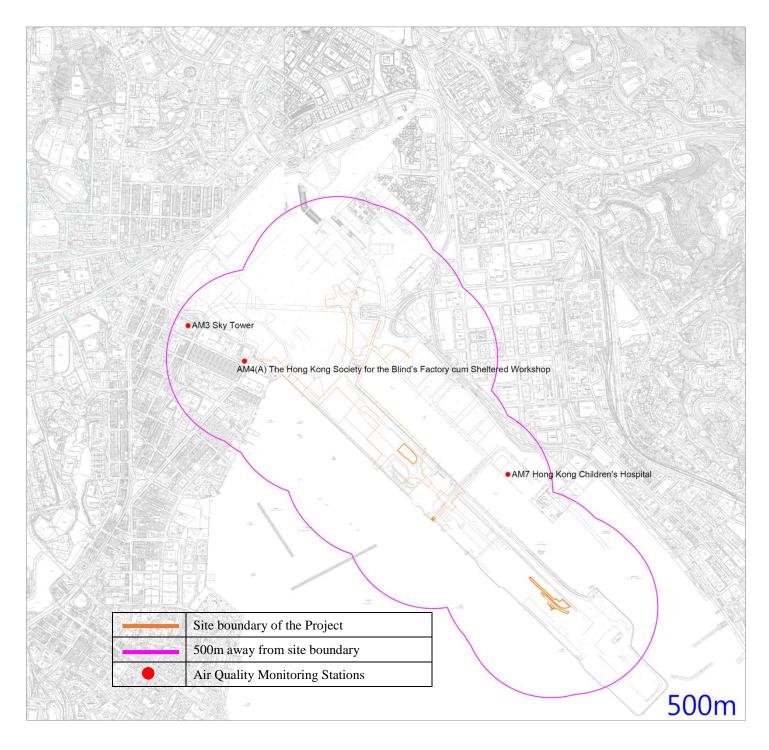
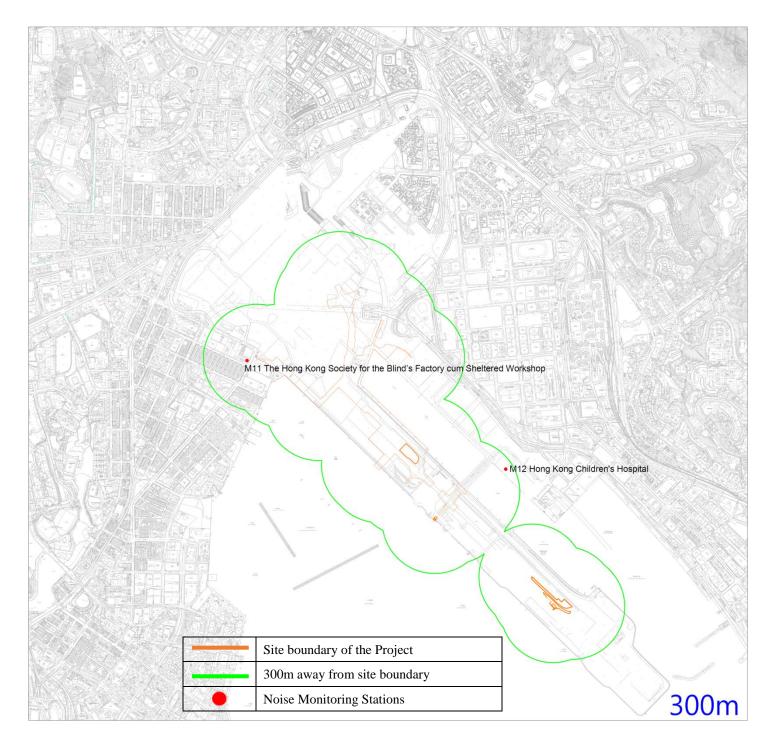
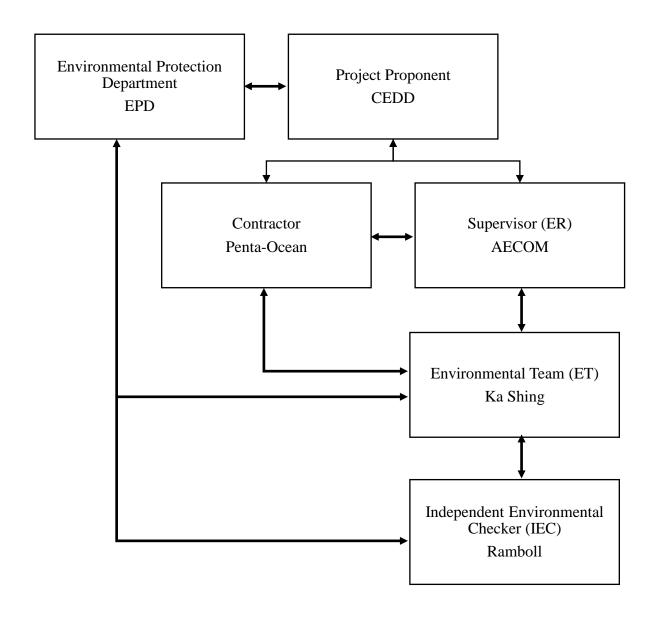


Figure 5 – Air Quality Monitoring Stations



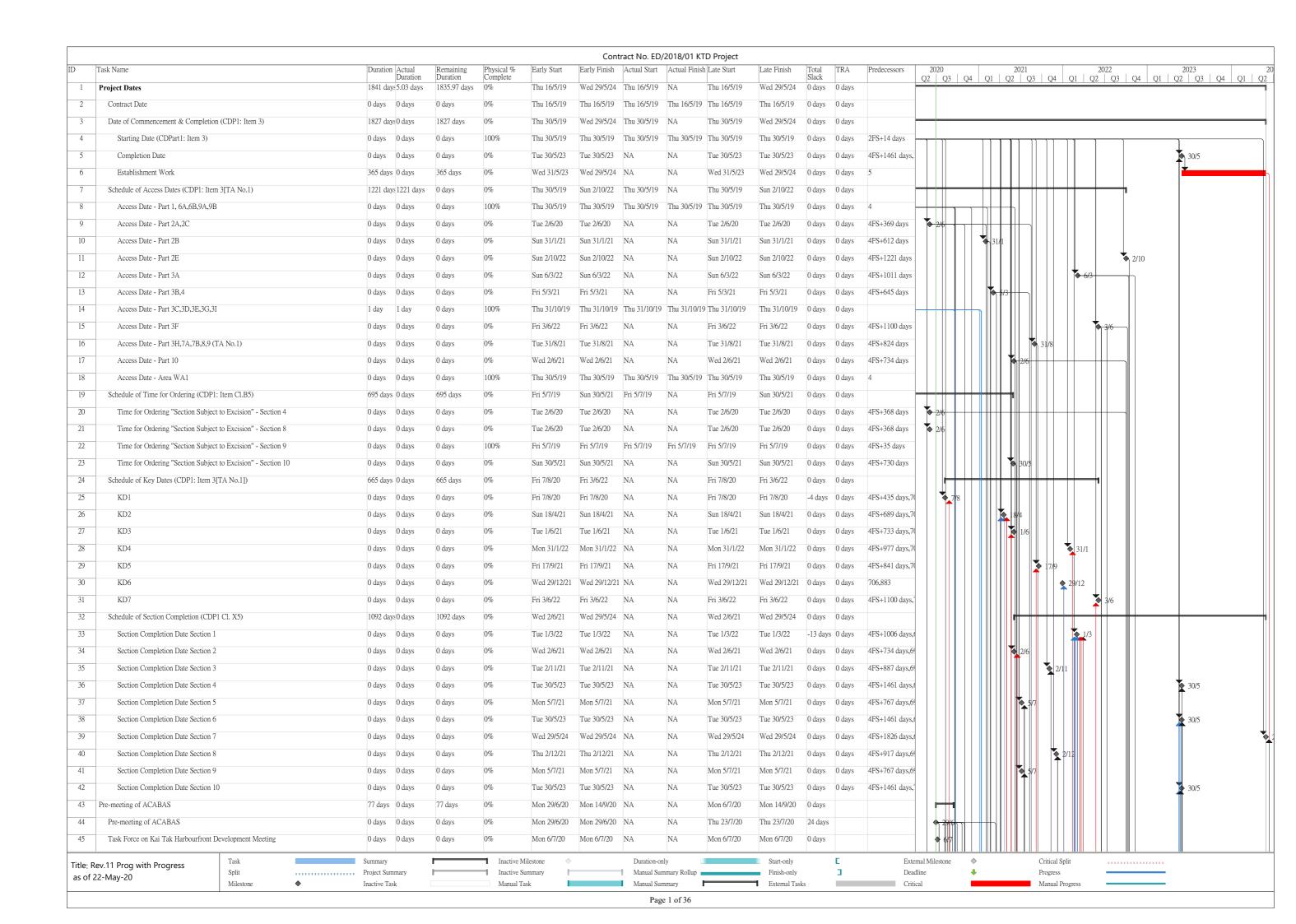
 $Figure\ 6-Noise\ Monitoring\ Stations$

Appendix A – Organization Chart of EM&A Team



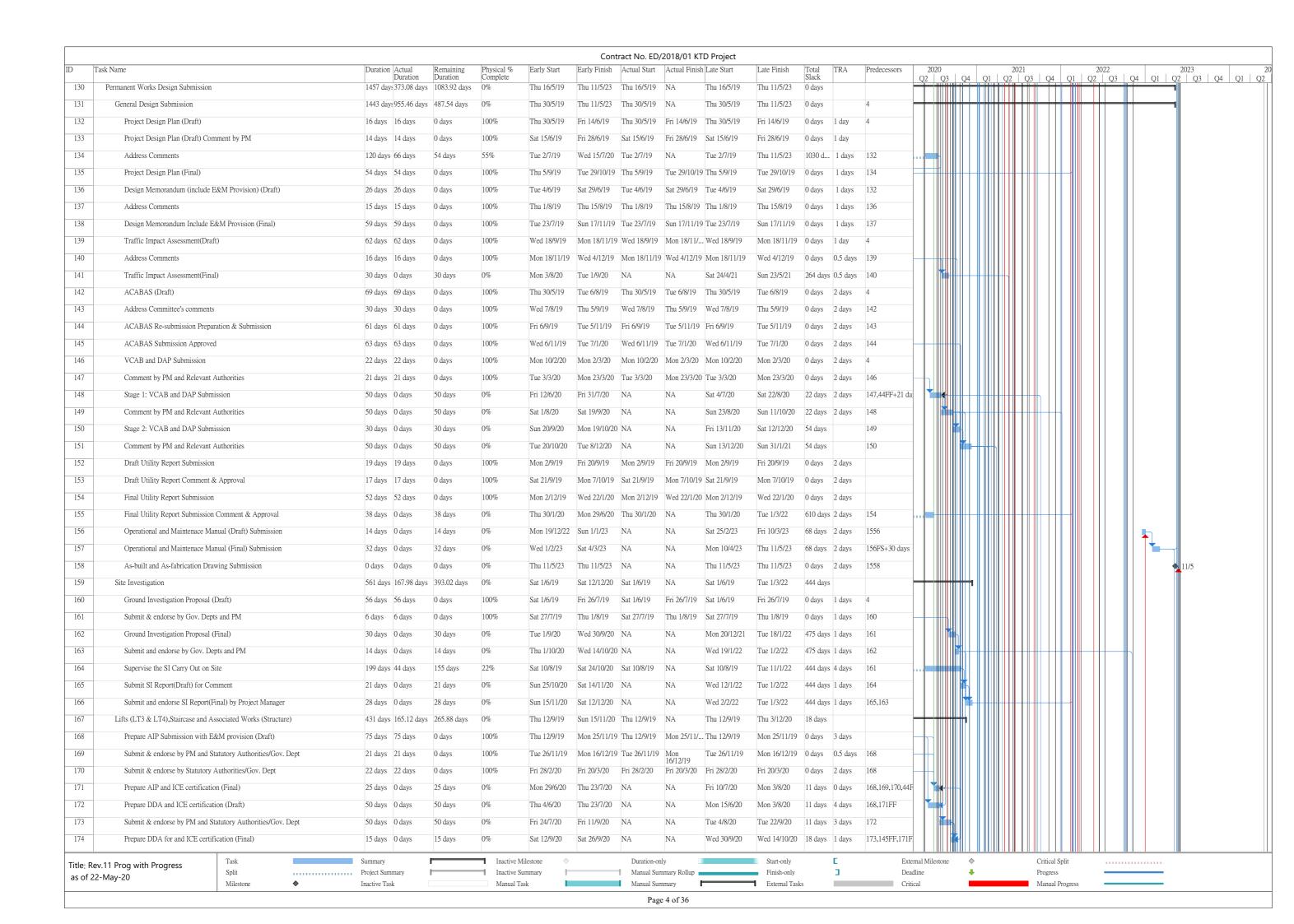
← Link of communication

Appendix B – Construction Programme



| | | | | | | | Cont | tract No. ED/ | 2018/01 KT | D Project | | | | | | | | | | |
|---------|---|-------------|----------------------|-----------------------|------------------------|--------------------------|----------------------|---------------|----------------------|--------------|---------------|-------------------|---------------|--------------------------------|--------------|------|------------------|---------|---------|-----------------|
| | Task Name | Duration | n Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total TI Slack | RA Predecesso | | Q3 Q4 Q2 | 2021 | O4 O1 | 2022 | 04 01 | 2023 Q2 Q3 |
| 46 | District Council Consultation | 0 days | | 0 days | 0% | Mon 14/9/20 | Mon 14/9/20 | NA | NA | Mon 14/9/20 | Mon 14/9/20 | 0 days | | | 14/9 | | <u> Q4 Q1</u> | Q2 Q3 | Q4 Q1 | Q2 Q3 Y |
| 47 | Project Manager's Instruction | 8 days | 8 days | 0 days | 0% | Thu 20/2/20 | Fri 28/2/20 | Thu 20/2/20 | Fri 28/2/20 | Thu 20/2/20 | Fri 28/2/20 | 0 days | | | | | | | | |
| 48 | PMI No. 001 - BIM Promenade Walk-through Video for Infrastructure in Kai Tak Stage 4 | 0 days | 0 days | 0 days | 100% | Thu 20/2/20 | Thu 20/2/20 | Thu 20/2/20 | Thu 20/2/20 | Thu 20/2/20 | Thu 20/2/20 | 0 days | | 0/2 | | | | | | |
| 49 | PMI No. 002 - Arranagement of Restricting Site Activities due to Spread of the Noval Coronavirus Between 29 January 2020 to 02 February 2020 | 0 days | 0 days | 0 days | 100% | Fri 28/2/20 | Fri 28/2/20 | Fri 28/2/20 | Fri 28/2/20 | Fri 28/2/20 | Fri 28/2/20 | 0 days | | 28/2 | | | | | | |
| 50 | Compensation Event | 16 days | 16 days | 0 days | 0% | Mon 10/2/20 | Wed 26/2/20 | Mon 10/2/20 | Wed 26/2/20 | Mon 10/2/20 | Wed 26/2/20 | 0 days | | | | | | | | |
| 51 | CE/001: BIM Promenade Walk-through Video for Infrastructure in Kai Tak Stage 4 | 0 days | 0 days | 0 days | 100% | Mon 10/2/20 | Mon 10/2/20 | Mon 10/2/20 | Mon 10/2/20 | Mon 10/2/20 | Mon 10/2/20 | 0 days | | /2 | | | | | | |
| 52 | CE/002 - Arranagement of Restricting Site Activities due to Spread of the Noval Coronavirus Between 29 January 2020 to 02 February 2020 | 0 days | 0 days | 0 days | 100% | Wed 26/2/20 | Wed 26/2/20 | Wed 26/2/20 | Wed 26/2/20 | Wed 26/2/20 | Wed 26/2/20 | 0 days | | 16/2 | | | | | | |
| 53 | Early Warning | 257 day | s 257 days | 0 days | 0% | Wed 10/7/19 | Mon 23/3/20 | Wed 10/7/19 | Mon 23/3/20 | Wed 10/7/19 | Mon 23/3/20 | 0 days | | | | | | | | |
| 54 | EW No. 001: CLP's 11kV and 132kV Cable Routing across Utility Trough of Bridge D3 and Alongside Road D3 (Metro Park Section) | 0 days | 0 days | 0 days | 100% | Wed 10/7/19 | Wed 10/7/19 | Wed 10/7/19 | Wed 10/7/19 | Wed 10/7/19 | Wed 10/7/19 | 0 days | | | | | | | | |
| 55 | EW No. 002: Deep Excavation Basement Construction Works from CKR-BEM Contract | 0 days | 0 days | 0 days | 100% | Thu 5/9/19 | Thu 5/9/19 | Thu 5/9/19 | Thu 5/9/19 | Thu 5/9/19 | Thu 5/9/19 | 0 days | | | | | | | | |
| 56 | EW No. 003: Overhang Cables of CLP Delay the Northern Depressed Road | 0 days | 0 days | 0 days | 100% | Wed 11/9/19 | Wed 11/9/19 | Wed 11/9/19 | Wed 11/9/19 | Wed 11/9/19 | Wed 11/9/19 | 0 days | | $-\parallel\parallel\parallel$ | | | | | | |
| 57 | EW No. 004: Late Commencement on Noise and Air Baseline Monitoring Delay the Northern Depressed Road CH1560 to 1720 | 0 days | 0 days | 0 days | 100% | Mon 4/11/19 | Mon 4/11/19 | Mon 4/11/19 | Mon 4/11/19 | Mon 4/11/19 | Mon 4/11/19 | 0 days | | | | | | | | |
| 8 | EW No. 005: Maintain the SCL RoW which should have been diverted to the RoW Constructed by KTSP caused Disruption to the Construction of North Approach Ramp especially affect the KTD1 | 0 days | 0 days | 0 days | 100% | Wed 13/11/19 | Wed 13/11/19 | Wed 13/11/19 | Wed 13/11/19 | Wed 13/11/19 | Wed 13/11/19 | 0 days | | | | | | | | |
| 59 | EW No. 006: Deferral of Design Deliverables | 0 days | 0 days | 0 days | 100% | Mon 16/12/19 | Mon 16/12/19 | Mon 16/12/19 | Mon 16/12/ | Mon 16/12/19 | Mon 16/12/19 | 0 days | | $-\parallel\parallel\parallel$ | | | | | | |
| 50 | EW No. 007: Delay on Driven H-piles by KTSP may affect the KD1 | 0 days | 0 days | 0 days | 100% | Fri 20/12/19 | Fri 20/12/19 | Fri 20/12/19 | Fri 20/12/19 | Fri 20/12/19 | Fri 20/12/19 | 0 days | | $-\parallel\parallel\parallel$ | | | | | | |
| 61 | EW No. 008: Not Allow to Extract Sheetpiles of North Approach Ramp beside Kai Tak Sport Park as Discussed at the Interface Meeting | 0 days | 0 days | 0 days | 100% | Fri 27/12/19 | Fri 27/12/19 | Fri 27/12/19 | Fri 27/12/19 | Fri 27/12/19 | Fri 27/12/19 | 0 days | | | | | | | | |
| 2 | EW No. 010: Existing 150mm Fresh Water Pipe clashing with Bridge D3 and South | 0 days | 0 days | 0 days | 100% | Wed 8/1/20 | Wed 8/1/20 | Wed 8/1/20 | Wed 8/1/20 | Wed 8/1/20 | Wed 8/1/20 | 0 days | | | | | | | | |
| 3 | Approach Ramp EW No. 011: Additional Requirement for Special Arrangement for Design and Construction of Noise Barrier fir Future Connection of Footbridge FB10 from Development Site 4B5 | 0 days | 0 days | 0 days | 100% | Tue 14/1/20 | Tue 14/1/20 | Tue 14/1/20 | Tue 14/1/20 | Tue 14/1/20 | Tue 14/1/20 | 0 days | | | | | | | | |
| 4 | EW No. 014: Planning of the Works in Revised Programme (Rev. 6) | 0 days | 0 days | 0 days | 100% | Mon 10/2/20 | Mon 10/2/20 | Mon 10/2/20 | Mon 10/2/20 | Mon 10/2/20 | Mon 10/2/20 | 0 days | | 1/2 | | | | | | |
| 55 | EW No. 015: Outbreak of Novel Coronavirus (Constraints on Working Time) | 0 days | 0 days | 0 days | 100% | Tue 11/2/20 | Tue 11/2/20 | Tue 11/2/20 | Tue 11/2/20 | Tue 11/2/20 | Tue 11/2/20 | 0 days | | /2 | | | | | | |
| 66 | EW No. 016: Outbreak of Novel Coronavirus (Late Supply of Agggregate) | 0 days | 0 days | 0 days | 100% | Wed 19/2/20 | Wed 19/2/20 | Wed 19/2/20 | Wed 19/2/20 | Wed 19/2/20 | Wed 19/2/20 | 0 days | | 9/2 | | | | | | |
| 57 | EW No. 020: GEO Audit for Underpass D3 | 0 days | 0 days | 0 days | 100% | Fri 13/3/20 | Fri 13/3/20 | Fri 13/3/20 | Fri 13/3/20 | Fri 13/3/20 | Fri 13/3/20 | 0 days | | 13/3 | | | | | | |
| 68 | EW No. 021: Unforessen Underground Water at North Approach Ramp Bay 6 | 0 days | 0 days | 0 days | 100% | Thu 12/3/20 | Thu 12/3/20 | Thu 12/3/20 | Thu 12/3/20 | Thu 12/3/20 | Thu 12/3/20 | 0 days | | 12/3 | | | | | | |
| 59 | EW No. 022:Deferral of Interface Management Plan Submission for Noise Barrier Works | 0 days | 0 days | 0 days | 100% | Fri 13/3/20 | Fri 13/3/20 | Fri 13/3/20 | Fri 13/3/20 | Fri 13/3/20 | Fri 13/3/20 | 0 days | | 13/3 | | | | | | |
| 70 | EW No. 023:Disruption of the Works due to Stockpile was not allowed to dispose to the | 0 days | 0 days | 0 days | 100% | Mon 16/3/20 | Mon 16/3/20 | Mon 16/3/20 | Mon 16/3/20 | Mon 16/3/20 | Mon 16/3/20 | 0 days | | 16/3 | | | | | | |
| 71 | Proposed Disposal Ground EW No. 025: Broken Steel Casing for Bored Pile P02-BP2 | 0 days | 0 days | 0 days | 100% | Mon 23/3/20 | Mon 23/3/20 | Mon 23/3/20 | Mon 23/3/20 | Mon 23/3/20 | Mon 23/3/20 | 0 days | | 23/3 | | | | | | |
| 72 | Contractor's Notification of Compensation Event | 14 days | 0 days | 14 days | 0% | Thu 28/5/20 | Thu 11/6/20 | NA | NA | Tue 9/6/20 | Tue 7/7/20 | 12 days | | n | | | | | | |
| 73 | Compensation Event (CNCE) No. 009 - Inclement Weather in April 2020 | 0 days | 0 days | 0 days | 0% | Thu 28/5/20 | Thu 28/5/20 | NA | NA | Tue 7/7/20 | Tue 7/7/20 | 40 days | | <u>♦ 28</u> /. | | | | | | |
| 74 | Compensation Event - Inclement Weather in May 2020 | 0 days | 0 days | 0 days | 0% | Thu 11/6/20 | Thu 11/6/20 | NA | NA | Tue 9/6/20 | Tue 9/6/20 | -2 days | | | /6 | | | | | |
| 75 | Project Submission | | | 1055.97 days | 0% | Thu 16/5/19 | Thu 11/5/23 | Thu 16/5/19 | NA | Thu 16/5/19 | Thu 11/5/23 | 0 days 0 | days | | | | | | | - |
| 76 | Submit Third Parties Insurance | | 71 days | 0 days | 100% | Tue 18/6/19 | | Tue 18/6/19 | | | Tue 27/8/19 | 0 days 0 | | _ | | | | | | |
| 7 | Works Programme | | s 160 days | 0 days | 0% | Thu 16/5/19 | | Thu 16/5/19 | | | Tue 22/10/19 | | | | | | | | | |
| 78 | Submit First Programme | | 20 days | 0 days | 100% | Thu 16/5/19 | | Thu 16/5/19 | | | Tue 4/6/19 | 0 days 0 | days 2 | | | | | | | |
| 79 | Review and Comment by Project Manager | | 9 days | 0 days | 100% | Wed 5/6/19 | Thu 13/6/19 | Wed 5/6/19 | | | Thu 13/6/19 | 1 | days 78 | _ | | | | | | |
| 80 | Revise and Resubmission of Works Programme | | 42 days | 0 days | 100% | Fri 14/6/19 | | | Thu 25/7/19 | | Thu 25/7/19 | 1 | days 79 | | | | | | | |
| 81 | Final Review and Acceptance of the First Programme by Project Manager | | 20 days | 0 days | 100% | Sat 27/7/19 | | Sat 27/7/19 | | | Thu 15/8/19 | 1 | days 80 | | | | | | | |
| 31 | Submit Health and Safety Management Plan (ACC Cl. D6(2)) | | 6 days | 0 days | 100% | Thu 30/5/19 | Tue 4/6/19 | Thu 30/5/19 | | | Tue 4/6/19 | 0 days 0. | | | | | | | | |
| 83 | Submit Detailed Programme for Safety Risk (ER Part 7, Cl. 7.3.4) | | 34 days | 0 days | 100% | Mon 9/12/19 | | Mon 9/12/19 | | | Sat 11/1/20 | 0 days 0. | | [| | | | | | |
| | | | | | | | | | | | | - | | | | | | | | |
| 84 | Submit Environmental Management Plan (ACC Cl. D20(2)) | | 6 days | 0 days | 100% | Thu 30/5/19 | Tue 4/6/19 | Thu 30/5/19 | | | Tue 4/6/19 | | 5 day 4 | [_ | | | | | | |
| 85 | Submit BIM Models Deliverables | 262 day | s 262 days | 0 days | 0% | Tue 13/8/19 | 1 nu <i>30/4/2</i> 0 | Tue 13/8/19 | 1 nu <i>30/4/2</i> 0 | 1 ue 13/8/19 | Thu 30/4/20 | 0 days | | | | | | | | |
| itle: E | Rev.11 Prog with Progress | Summary | | | Inactive M | filestone \diamondsuit | | Duration-on | ly | | Start-only | С | | External Milesto | ne 🔷 | | Critical Split | | | |
| | 22-May-20 | Project Sur | | | Inactive S | | | | nmary Rollup | | Finish-only | 3 | | Deadline | • | | Progress | _ | | |
| | Milestone ♦ | Inactive Ta | ask | | Manual Ta | ask | | Manual Sur | nmarv | | External Task | CS Z | | Critical | | | Manual Progress | | | |

| | | | | | | | Con | tract No. ED | /2018/01 KTD Pi | roject | | | | | | | | | | | | | |
|--------|--|---------------|---------------------|-----------------------|------------------------|--------------|--------------|---------------|--------------------|------------|---------------|----------------|----------|--------------|----------------|--|-------|---------|-------------|-------------|-------|---------|-----|
| | Task Name | Duration A | | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish Late | e Start | Late Finish | Total Slack | TRA | Predecessors | 2020 | 2 04 6 | | 2021 | 4 01 0 | 2022 | 2 | 023 | |
| 86 | Existing Site Model (Topography) | 46 days 4 | Duration 46 days | 0 days | 100% | Tue 13/8/19 | Fri 27/9/19 | Tue 13/8/19 | Fri 27/9/19 Tue | 13/8/19 | Fri 27/9/19 | 0 days | 1 day | | Q2 Q | 3 Q4 C | Q1 Q2 | Q3 Q4 | 4 Q1 Q2 | 2 Q3 Q4 | Q1 Q2 | Q3 Q4 | Q1_ |
| 87 | Existing Underground Utilities (UU) Model | 33 days | 33 days | 0 days | 100% | Mon 26/8/19 | Fri 27/9/19 | Mon 26/8/19 | Fri 27/9/19 Mor | n 26/8/19 | Fri 27/9/19 | 0 days | 1 day | | | | | | | | | | |
| 88 | 3D Digital Survey For Existing Conditions | 44 days | 44 days | 0 days | 100% | Mon 2/9/19 | Tue 15/10/19 | Mon 2/9/19 | Tue 15/10/19 Mor | n 2/9/19 | Tue 15/10/19 | 0 days | 1 day | | | | | | | | | | |
| 89 | 3D Photogrametry Model | 46 days | 46 days | 0 days | 100% | Mon 16/9/19 | Thu 31/10/19 | Mon 16/9/19 | Thu 31/10/19 Mor | n 16/9/19 | Thu 31/10/19 | 0 days | 1 day | | | | | | | | | | |
| 90 | AIP Model | 16.92 day | 16.92 days | 0 days | 100% | Fri 6/9/19 | Sun 22/9/19 | Fri 6/9/19 | Sun 22/9/19 Fri (| 6/9/19 | Sun 22/9/19 | 0 days | 1 day | | | | | | | | | | |
| 91 | Interfacing Contract Model | 53 days | 53 days | 0 days | 100% | Mon 9/9/19 | Thu 31/10/19 | Mon 9/9/19 | Thu 31/10/19 Mor | n 9/9/19 | Thu 31/10/19 | 0 days | 1 day | | | | | | | | | | |
| 92 | Monthly Updated BIM Model | 1 day | 1 day | 0 days | 100% | Thu 31/10/19 | Thu 31/10/19 | Thu 31/10/19 | Thu 31/10/19 Thu | ı 31/10/19 | Thu 31/10/19 | 0 days | 1 day | | | | | | | | | | |
| 93 | 4D Model Linked Up with Programme | 0 days (| | 0 days | 100% | Thu 30/4/20 | | | Thu 30/4/20 Thu | | | 0 days | | | ♦ 30/4 | | | | | | | | |
| 94 | Construction Method Simulation (CMS) in 3D Model | 0 days (| | 0 days | 100% | Wed 22/4/20 | | | Wed 22/4/20 Wed | | Wed 22/4/20 | 0 days | | | \$ 22/4 | | | | | | | | |
| 95 | BIM Deliverables Schedule | 896 days 3 | | 892.28 days | 0% | Thu 16/5/19 | | 1 Thu 16/5/19 | | | Tue 11/1/22 | 76 days | - uu | | - 22/7 | | | | | | | | |
| 96 | Establish BIM Team | 0 days (| | 0 days | 100% | Sat 3/8/19 | Sat 3/8/19 | Sat 3/8/19 | | 3/8/19 | Sat 3/8/19 | 0 days | 1 day | | | | | | | | | | |
| 97 | BIM Execution Plan | | | | 100% | Sat 31/8/19 | Sat 31/8/19 | Sat 31/8/19 | Sat 31/8/19 Sat 3 | | Sat 31/8/19 | | | | | | | | | | | | |
| | | 0 days (| | 0 days | | | | | | | | 0 days | _ | | | | | | | | | | |
| 98 | BIM Submission Schedule | 0 days (| - | 0 days | 100% | Fri 16/8/19 | Fri 16/8/19 | Fri 16/8/19 | Fri 16/8/19 Fri | | Fri 16/8/19 | 0 days | - | | | | | | | | | | |
| 99 | BIM 360 License | 0 days (| | 0 days | 100% | Sat 31/8/19 | Sat 31/8/19 | Sat 31/8/19 | Sat 31/8/19 Sat 3 | | Sat 31/8/19 | 0 days | | | | | | | | | | | |
| 100 | BIM/Drawing Management Software System | 0 days (| | 0 days | 100% | Sat 31/8/19 | Sat 31/8/19 | Sat 31/8/19 | Sat 31/8/19 Sat 3 | | Sat 31/8/19 | 0 days | | | | | | | | | | | |
| 101 | CDE Setup | | 1 day | 0 days | 100% | Sat 31/8/19 | Mon 9/9/19 | Sat 31/8/19 | Mon 9/9/19 Sat | | Mon 9/9/19 | 0 days | - | | | | | | | | | | |
| 102 | Clash Report Format | 0 days (| 0 days | 0 days | 100% | Thu 12/9/19 | | | Thu 12/9/19 Thu | | Thu 12/9/19 | 0 days | 1 day | | | | | | | | | | |
| 103 | Monthly Report Format | 0 days (| 0 days | 0 days | 100% | Thu 12/9/19 | Thu 12/9/19 | Thu 12/9/19 | Thu 12/9/19 Thu | 1 12/9/19 | Thu 12/9/19 | 0 days | 1 day | | | | | | | | | | |
| 104 | Quality Assurance Plan for BIM | 0 days (| 0 days | 0 days | 100% | Mon 30/9/19 | Mon 30/9/19 | Mon 30/9/19 | Mon 30/9/19 Mon | n 30/9/19 | Mon 30/9/19 | 0 days | 1 day | | | | | | | | | | |
| 105 | BIM Training Plan | 0 days (| 0 days | 0 days | 100% | Thu 10/10/19 | Thu 10/10/19 | Thu 10/10/19 | Thu 10/10/19 Thu | 1 10/10/19 | Thu 10/10/19 | 0 days | 1 day | | | | | | | | | | |
| .06 | BIM Training Schedule for CIC Training | 0 days (| 0 days | 0 days | 100% | Mon 30/9/19 | Mon 30/9/19 | Mon 30/9/19 | Mon 30/9/19 Mor | n 30/9/19 | Mon 30/9/19 | 0 days | 1 day | | | | | | | | | | |
| 107 | Monthly BIM Progress Report | 0 days (| 0 days | 0 days | 100% | Thu 16/5/19 | Tue 31/12/19 | Thu 16/5/19 | Tue 31/12/19 Thu | 16/5/19 | Tue 31/12/19 | 0 days | 1 day | | - | | | | | | | | |
| 108 | Monthly Clash Report | 1 day | 1 day | 0 days | 100% | Tue 31/3/20 | Tue 31/3/20 | Tue 31/3/20 | Tue 31/3/20 Tue | 31/3/20 | Tue 31/3/20 | 0 days | 1 day | | | | | | | | | | |
| 109 | BIM Object Libraries | 1 day | 1 day | 0 days | 100% | Thu 12/9/19 | Thu 12/9/19 | Thu 12/9/19 | Thu 12/9/19 Thu | 12/9/19 | Thu 12/9/19 | 0 days | 1 day | | | | | | | | | | |
| 110 | Trees Preservation and Removal Proposal (TPRP) for tress along promenade open space Submission | e 0 days (| 0 days | 0 days | 0% | Mon 2/11/20 | Mon 2/11/20 | NA | NA Sun | 17/1/21 | Sun 17/1/21 | 63 days | 1 day | | | ◆ 2/11 | | | | | | | |
| 11 | Trees Preservation and Removal Proposal (TPRP) for tress along promenade open space Submission Comment & Approval by Relevant Government Authories | e 360 days (| 0 days | 360 days | 0% | Mon 2/11/20 | Wed 27/10/2 | 1 NA | NA Sun | ı 17/1/21 | Tue 11/1/22 | 76 days | 1 day | 110 | | | | | | | | | |
| 12 | Trees Preservation and Removal Proposal (TPRP) for tress along Sing Kai Submission | 0 days (| 0 days | 0 days | 0% | Fri 31/7/20 | Fri 31/7/20 | NA | NA Wed | d 30/9/20 | Wed 30/9/20 | 52 days | 1 day | | | 31./7 | | | | | | | |
| 113 | Trees Preservation and Removal Proposal (TPRP) for tress along Sing Kai Road Submission Comment & Approval by Relevant Government Authories | 360 days (| 0 days | 360 days | 0% | Fri 31/7/20 | Sun 25/7/21 | NA | NA Wed | d 30/9/20 | Fri 24/9/21 | 61 days | 1 day | 112 | | | | | | | | | |
| 14 | Temporary Traffic Management | 478 days 4 | 447.84 days | 30.16 days | 0% | Thu 30/5/19 | Fri 18/9/20 | Thu 30/5/19 | NA Thu | ı 30/5/19 | Fri 25/9/20 | 7 days | | | | $H \mid \mid \mid \mid \mid \mid \mid$ | | | | | | | |
| 115 | Submit Traffic Engineering Consultant and TTM Team Leader (PS1.16(3)) | 14 days | 14 days | 0 days | 100% | Thu 30/5/19 | Wed 12/6/19 | Thu 30/5/19 | Wed 12/6/19 Thu | 1 30/5/19 | Wed 12/6/19 | 0 days | 1 day | 4 | | | | | | | | | |
| 16 | Submit EP Mgt System Co-ordinator (PS Cl. 1.18N(2)) | 7 days | 7 days | 0 days | 100% | Thu 30/5/19 | Wed 5/6/19 | Thu 30/5/19 | Wed 5/6/19 Thu | ı 30/5/19 | Wed 5/6/19 | 0 days | 1 day | 4 | | | | | | | | | |
| 117 | Approve of EP Co-ordinator by Project Manager (PS Cl. 1.18N(2)) | 14 days | - | 0 days | 100% | Thu 6/6/19 | | Thu 6/6/19 | Wed 19/6/19 Thu | | Wed 19/6/19 | | _ | 116 | | | | | | | | | |
| 118 | Submit UU detection equipment for Supervisor approval (PS Cl. 1.25A(1)) | 7 days | - | 0 days | 100% | Thu 30/5/19 | | | Wed 5/6/19 Thu | | Wed 5/6/19 | 0 days | | 4 | | | | | | | | | |
| 19 | Submit & obtain approval: site office's location and layout plan (PS Cl. 1.45(11)) (7d | 47 days | | 0 days | 100% | Thu 30/5/19 | Fri 18/10/19 | | Fri 18/10/19 Thu | | Fri 18/10/19 | | 1 day | 4 | | | | | | | | | |
| 120 | submission + 14d approval) Submit Site survey record (PS Cl.1.47(7)) | 34 days 3 | | 0 days | 100% | Thu 30/5/19 | Tue 2/7/19 | | Tue 2/7/19 Thu | | Tue 2/7/19 | | 1 day | 1 | | | | | | | | | |
| .20 | Submit & obtain approval: fencing & hoarding plan (PS Cl. 1.48(10) | 40 days (| | 40 days | 0% | Mon 10/8/20 | Fri 18/9/20 | NA | | | Fri 25/9/20 | | 0.5 days | 4 | | | | | | | | | |
| 121 | Submit site facilities (PS Cl. 1.50S) | 65 days 6 | | | 100% | Thu 30/5/19 | Fri 2/8/19 | Thu 30/5/19 | | | Fri 2/8/19 | | 0.5 days | | | | | | | | | | |
| | , , , | | | 0 days | | | | | | | | | | 4 | | | | | | | | | |
| 123 | Submit security system (PS Cl. 1.53A(5)) | 36 days 3 | | 0 days | 100% | Thu 30/5/19 | Thu 4/7/19 | | Thu 4/7/19 Thu | | Thu 4/7/19 | | 0.5 days | 4 | | | | | | | | | |
| 24 | Submit Interface Management Plan (PS Cl. 1.89(2)) | 47 days | | 0 days | 100% | Thu 30/5/19 | | | Mon 15/7/19 Thu | | Mon 15/7/19 | | 0.5 days | | | | | | | | | | |
| 25 | Submit Subcontractor Management Plan (ACC Cl. C5(1)) | 13 days | | 0 days | 100% | Thu 30/5/19 | | | Tue 11/6/19 Thu | | Tue 11/6/19 | | 0.5 days | 4 | | | | | | | | | |
| 26 | Submit Temporary Drainage and Sewerage Management Plan (PS Cl. 1.24A(1)) | 174 days 1 | 174 days | 0 days | 100% | Thu 30/5/19 | | | Tue 19/11/19 Thu | | Tue 19/11/19 | 0 days | 1 day | 4 | | | | | | | | | |
| .27 | Submit EM&A Manual (ER Part 8, Cl. 8.2) | 6 days 6 | 6 days | 0 days | 100% | Thu 30/5/19 | Tue 4/6/19 | Thu 30/5/19 | Tue 4/6/19 Thu | 1 30/5/19 | Tue 4/6/19 | 0 days | 0 days | 4 | | | | | | | | | |
| 128 | Submit Proposal of selection of suppliers of Plant and Materials (ACC Cl. C11(1) | 80 days 8 | 80 days | 0 days | 100% | Thu 30/5/19 | Sat 17/8/19 | Thu 30/5/19 | Sat 17/8/19 Thu | 1 30/5/19 | Sat 17/8/19 | 0 days | 0 days | 4 | | | | | | | | | |
| 129 | Submit Contractor's Management Team (ACC Cl. D1(3)) | 50 days | 50 days | 0 days | 100% | Thu 30/5/19 | Thu 18/7/19 | Thu 30/5/19 | Thu 18/7/19 Thu | 1 30/5/19 | Thu 18/7/19 | 0 days | 0 days | 4 | | | | | | | | | |
| tle· P | ev.11 Prog with Progress | Summary | | | Inactive Mi | lestone | - | Duration-o | nly | | Start-only | 1 | E | Ex | temal Mileston | ie 🔷 | | Critic | al Split | | | | |
| | 22-May-20 | Project Summ | | | Inactive Su | | | | mmary Rollup | | Finish-only | | 3 | | eadline | + | | Progra | | | | | |
| | Milestone ◆ | Inactive Task | l | | Manual Tas | SK | | Manual Su | mmary | | External Tasl | ΣS | | Cr | itical | | | Manu | al Progress | | | | |



| | | | | | | Conf | tract No. ED/ | /2018/01 KT | D Project | | | | | | | | | | | | |
|-------------|--|----------------------|---------------------|----------------|-------------------------|--------------|---------------|--------------|---------------|---------------|------------------|----------|---------------|-----------------|------|-------|------------|---------|---------|-----------------|------------|
| | Task Name | Duration Actual | Remaining | Physical % | Early Start | | Actual Start | | | Late Finish | | TRA | Predecessors | 2020 | | | 2021 | 202 | 2 | 2023 | 2 21 |
| 75 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | Duration 50 days | Duration 50 days | Complete 0% | Sun 27/9/20 | Sun 15/11/20 | NA | NA | Thu 15/10/20 | Thu 3/12/20 | Slack 18 days | 3 days | 174 | Q2 Q | 3 Q4 | Q1 Q2 | Q3 Q4 | Q1 Q2 | Q3 Q4 Q | 1 Q2 Q1 | 3 Q4 C |
| 76 | Noise barrier fronting to 4B5 at Rd D3A & Bus Lay By (Section 5&9) | 338 days 215.23 days | - | 0% | Mon 4/11/19 | Tue 6/10/20 | Mon 4/11/19 | | Mon 4/11/19 | Wed 7/10/20 | 1 day | | | | | | | | | | |
| 77 | Prepare AIP Submission (Draft) | 38 days 38 days | 0 days | 100% | Mon 4/11/19 | Wed 11/12/19 | Mon 4/11/19 | Wed 11/12/ | . Mon 4/11/19 | Wed 11/12/19 | 0 days | 2 days | | | | | | | | | |
| 78 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 167 days 162 days | 5 days | 97% | Thu 12/12/19 | Tue 26/5/20 | Thu 12/12/19 | NA | Thu 12/12/19 | Wed 27/5/20 | 1 day | | 177 | | | | | | | | |
| 79 | Prepare AIP and ICE certification (Final) | 56 days 31 days | 25 days | 55% | Wed 22/4/20 | Tue 16/6/20 | Wed 22/4/20 | | Wed 22/4/20 | Wed 17/6/20 | 1 day | | 178FF+21 days | | | | | | | | |
| 80 | Prepare DDA Subm (Draft) | 18 days 18 days | 0 days | 100% | Wed 1/4/20 | Sat 18/4/20 | Wed 1/4/20 | | Wed 1/4/20 | Sat 18/4/20 | | 0.5 days | | | | | | | | | |
| 81 | Submit & endorse by PM | 55 days 35 days | 20 days | 64% | Sat 18/4/20 | Thu 11/6/20 | | NA | Sat 18/4/20 | Thu 6/8/20 | 56 days | ois days | 180 | | | | | | | | |
| 32 | Submit & endorse by Statutory Authorities/Gov. Dept | 50 days 0 days | 50 days | 0% | Wed 17/6/20 | Wed 5/8/20 | | | Thu 18/6/20 | Thu 6/8/20 | 1 day | | 180,179 | | | | | | | | |
| 3 | Prepare DDA for and ICE certification (Final) (Original Contract Scope) | 12 days 0 days | 12 days | 0% | Thu 6/8/20 | Mon 17/8/20 | | | Fri 7/8/20 | Tue 18/8/20 | | 1 days | 181,182 | | | | | | | | |
| 34 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | | 50 days | 0% | Tue 18/8/20 | Tue 6/10/20 | | NA | Wed 19/8/20 | Wed 7/10/20 | | | 183 | | | | | | | | |
| 35 | | 50 days 0 days | | | | | | | | | | 1 days | 103 | _ | | | | | | | |
| | Decking for Underpass (Rd L14) | 304 days 0 days | 304 days | 0% | Mon 20/7/20 | Wed 19/5/21 | | | Fri 31/7/20 | Sun 30/5/21 | 11 days | 2.1 | 44EE, 10.1 | | | | | | | | |
| 6 | Structure Prepare AIP and ICE certification (Draft) | 25 days 0 days | 25 days | 0% | Mon 20/7/20 | Thu 13/8/20 | | | Fri 31/7/20 | Mon 24/8/20 | 11 days | | 44FF+12 days | | | | | | | | |
| 37 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days 0 days | 50 days | 0% | Fri 14/8/20 | | NA | | Tue 25/8/20 | Tue 13/10/20 | | 0.5 days | | | | | | | | | |
| 8 | Prepare AIP and ICE certification (Final) | 15 days 0 days | 15 days | 0% | Sat 3/10/20 | Sat 17/10/20 | | NA | Wed 14/10/20 | Wed 28/10/20 | | | 186,187 | | | | | | | | |
| 9 | Prepare DDA and ICE certification (Draft) | 89 days 0 days | 89 days | 0% | Sun 18/10/20 | Thu 14/1/21 | | | Thu 29/10/20 | Mon 25/1/21 | 11 days | | 186,188 | | | | | | | | |
| 0 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days 0 days | 50 days | 0% | Fri 15/1/21 | Fri 5/3/21 | NA | NA | Tue 26/1/21 | Tue 16/3/21 | 11 days | 0.5 days | 189 | | | | | | | | |
| 1 | Prepare DDA and ICE certification (Final) | 25 days 0 days | 25 days | 0% | Sat 6/3/21 | Tue 30/3/21 | NA | NA | Wed 17/3/21 | Sat 10/4/21 | 11 days | 2 days | 190 | | | | | | | | |
| 2 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days 0 days | 50 days | 0% | Wed 31/3/21 | Wed 19/5/21 | NA | NA | Sun 11/4/21 | Sun 30/5/21 | 11 days | 1 day | 191 | | | | | | | | |
| 3 | Road D3 Bridge & Approach Ramps | 439 days 358.08 days | 80.92 days | 0% | Thu 30/5/19 | Mon 10/8/20 | Thu 30/5/19 | NA | Thu 30/5/19 | Thu 8/10/20 | 59 days | | 4 | | | | | | | | |
| 4 | D3 Bridge Substructure | 439 days 358.08 days | 80.92 days | 0% | Thu 30/5/19 | Mon 10/8/20 | Thu 30/5/19 | NA | Thu 30/5/19 | Thu 8/10/20 | 59 days | | | | | | | | | | |
| 5 | Prepare AIP and ICE certification (Draft) | 66 days 66 days | 0 days | 100% | Thu 30/5/19 | Sat 3/8/19 | Thu 30/5/19 | Sat 3/8/19 | Thu 30/5/19 | Sat 3/8/19 | 0 days | 3 days | 4 | | | | | | | | |
| 6 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 15 days 15 days | 0 days | 100% | Mon 5/8/19 | Mon 19/8/19 | Mon 5/8/19 | Mon 19/8/19 | Mon 5/8/19 | Mon 19/8/19 | 0 days | 1 days | 195,138 | | | | | | | | |
| 7 | Prepare AIP and ICE certification (Final) | 30 days 30 days | 0 days | 100% | Mon 23/12/19 | Tue 21/1/20 | Mon 23/12/19 | Tue 21/1/20 | Mon 23/12/19 | Tue 21/1/20 | 0 days | 0 days | 195,196 | | | | | | | | |
| 8 | Prepare DDA and ICE certification (Draft) | 106 days 106 days | 0 days | 100% | Fri 19/7/19 | Sun 17/11/19 | Fri 19/7/19 | Sun 17/11/19 | Fri 19/7/19 | Sun 17/11/19 | 0 days | 5 days | 195 | | | | | | | | |
| 9 | Submit & endorse by PM | 17 days 17 days | 0 days | 100% | Wed 20/11/19 | Fri 6/12/19 | Wed 20/11/19 | Fri 6/12/19 | Wed 20/11/19 | Fri 6/12/19 | 0 days | 3 days | 198 | | | | | | | | |
| 0 | Submit & endorse by Statutory Authorities/Gov. Dept | 45 days 45 days | 0 days | 100% | Fri 24/1/20 | Wed 18/3/20 | Fri 24/1/20 | Wed 18/3/20 | Fri 24/1/20 | Wed 18/3/20 | 0 days | 1 days | 198 | | | | | | | | |
| 1 | Prepare DDA for and ICE certification (Include P02-BP2 Remedial Pile) | 105 days 75 days | 30 days | 71% | Mon 9/3/20 | Sun 21/6/20 | Mon 9/3/20 | NA | Mon 9/3/20 | Wed 19/8/20 | 59 days | 1 days | 200 | | | | | | | | |
| 2 | (Contractor Bear DDA Approval Risk) Submit & endorse by PM and Statutory Authorities/Gov. Dept (Contractor Bear | 50 days 0 days | 50 days | 0% | Mon 22/6/20 | Mon 10/8/20 | NA | NA | Thu 20/8/20 | Thu 8/10/20 | 59 days | 1 days | 201 | | | | | | | | |
|)3 | DDA Approval Risk) D3 Bridge Superstructure | 728 days 370.67 days | 357.33 days | 0% | Thu 30/5/19 | Wed 26/5/21 | Thu 30/5/19 | NA | Thu 30/5/19 | Wed 21/7/21 | 56 days | | | | | | | | | | |
| 14 | Prepare AIP and ICE certification (Draft) | 101 days 101 days | 0 days | 100% | Thu 30/5/19 | Sat 7/9/19 | Thu 30/5/19 | Sat 7/9/19 | Thu 30/5/19 | Sat 7/9/19 | 0 days | 1 day | | | | | | | | | |
|)5 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 19 days 19 days | 0 days | 100% | Mon 9/9/19 | Fri 27/9/19 | Mon 9/9/19 | Fri 27/9/19 | Mon 9/9/19 | Fri 27/9/19 | 0 days | 1 day | 204 | | | | | | | | |
|)6 | Prepare AIP and ICE certification (Final) | 135 days 135 days | 0 days | 100% | Wed 20/11/19 | Thu 2/4/20 | Wed 20/11/19 | Thu 2/4/20 | Wed 20/11/19 | Thu 2/4/20 | | 3 days | 205 | | | | | | | | |
|)7 | Prepare DDA and ICE certification (Draft) | 222 days 222 days | 0 days | 100% | Fri 19/7/19 | Tue 25/2/20 | | Tue 25/2/20 | | Tue 25/2/20 | | _ | 205 | | | | | | | | |
|)8 | Submit & endorse by PM | 23 days 23 days | 0 days | 100% | Wed 26/2/20 | | Wed 26/2/20 | | | Thu 19/3/20 | | | 207 | | | | | | | | |
|)9 | Submit & endorse by Statutory Authorities/Gov. Dept | 50 days 0 days | 50 days | 0% | Mon 29/6/20 | Mon 17/8/20 | | | Thu 16/7/20 | Thu 3/9/20 | 17 days | | 207,206FF+12 | d | | | | | | | |
| .0 | Prepare DDA for and ICE certification (Final) | 21 days 0 days | - | 0% | Tue 18/8/20 | Mon 7/9/20 | | | Fri 4/9/20 | Thu 24/9/20 | 17 days | | 208,206,209 | | | | | | | | |
| | | | 21 days | | | | | | | | | | | | | | | | | | |
| 1 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days 0 days | 50 days | 0% | Tue 8/9/20 | Tue 27/10/20 | | | Fri 25/9/20 | Fri 13/11/20 | 17 days | | 210 | | | | | | | | |
| 2 | Prepare AIP (E&M works) and ICE certification (Draft) | 32 days 0 days | 32 days | 0% | Thu 2/7/20 | | NA | | Thu 27/8/20 | Sun 27/9/20 | 56 days | | 212 | | | | | | | | |
| .3 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days 0 days | 62 days | 0% | Mon 3/8/20 | Sat 3/10/20 | | | Mon 28/9/20 | Sat 28/11/20 | 56 days | | 212 | | | | | | | | |
| 4 | Prepare AIP (E&M works) and ICE certification (Final) | 32 days 0 days | 32 days | 0% | Sun 4/10/20 | Wed 4/11/20 | | | Sun 29/11/20 | Wed 30/12/20 | | | 213 | | | | | | | | |
| 5 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days 0 days | 62 days | 0% | Thu 5/11/20 | Tue 5/1/21 | | | Thu 31/12/20 | Tue 2/3/21 | 56 days | | 214 | | | | | | | | |
| 16 | Prepare DDA (E&M works) and ICE certification (Draft) | 32 days 0 days | 32 days | 0% | Sat 5/12/20 | Tue 5/1/21 | NA | NA | Sat 30/1/21 | Tue 2/3/21 | 56 days | | 215FF | | | | | | | | |
| 17 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days 0 days | 62 days | 0% | Wed 6/1/21 | Mon 8/3/21 | NA | NA | Wed 3/3/21 | Mon 3/5/21 | 56 days | 2 days | 216 | | | | | | | | |
| 18 | Prepare DDA (E&M works) and ICE certification (Final) | 17 days 0 days | 17 days | 0% | Tue 9/3/21 | Thu 25/3/21 | NA | NA | Tue 4/5/21 | Thu 20/5/21 | 56 days | 2 days | 217 | | | | | | | | |
| 19 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days 0 days | 62 days | 0% | Fri 26/3/21 | Wed 26/5/21 | NA | NA | Fri 21/5/21 | Wed 21/7/21 | 56 days | 2 days | 218 | 1 | | | | | | | |
| —— ام کا | Lev.11 Prog with Progress | Summary | | Inactive M | ilestone \diamondsuit | 1 | Duration-or | nly | | Start-only | 1 | Е | Ext | ternal Mileston | e 🔷 | | Critical S | plit | | | |
| | 22-May-20 Split | Project Summary | | Inactive Su | | | | nmary Rollup | | Finish-only | | 3 | | adline | • | | Progress | | | _ | |
| | Milestone ◆ | Inactive Task | | Manual Ta | sk | | Manual Sur | nmary | | External Task | S | | Cri | tical | | | Manual F | rogress | | _ | |

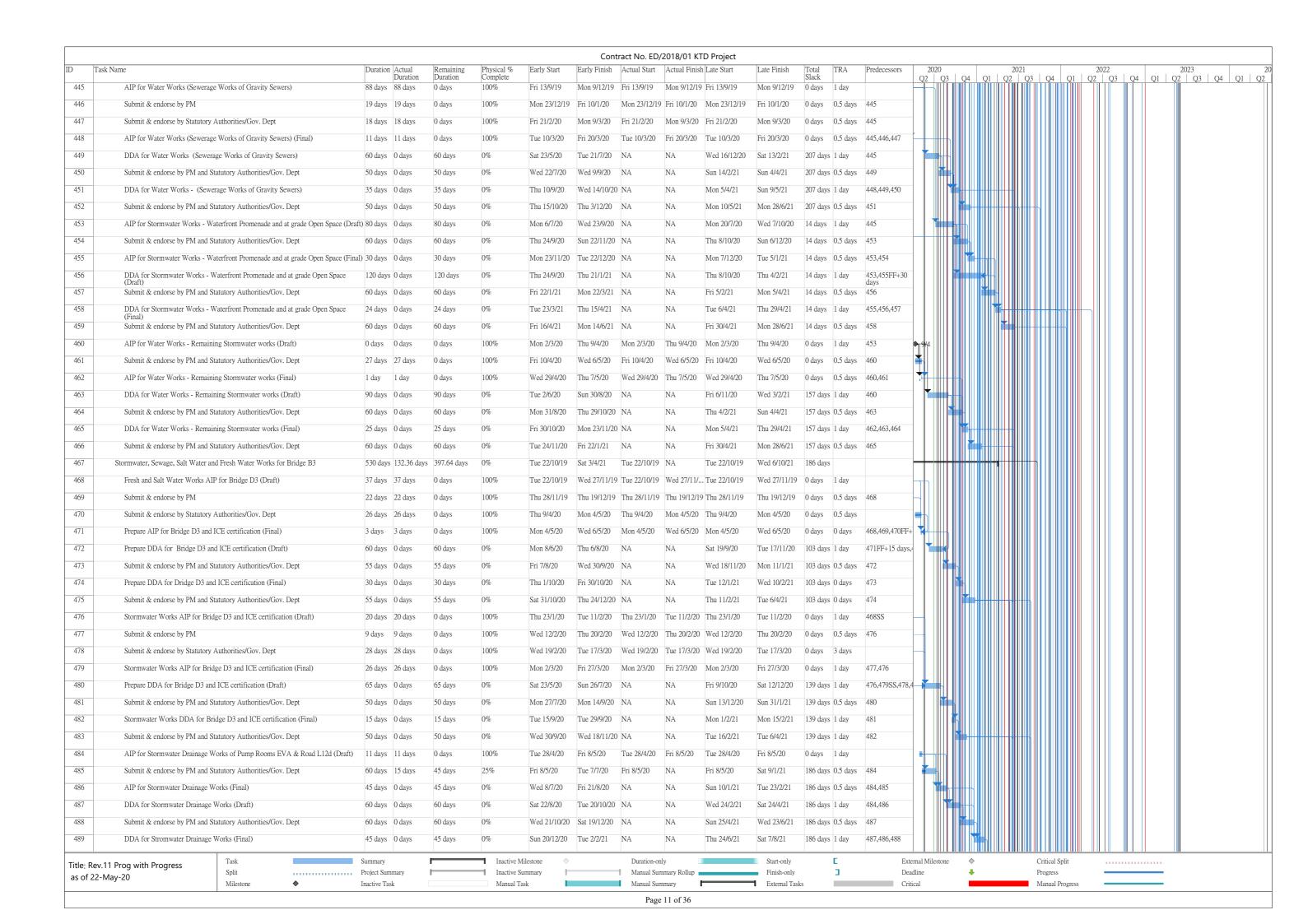
| | | | | | | | Con | tract No. ED, | /2018/01 KT | D Project | | | | | | | | | | | | | | |
|---------|--|----------------------------|--------------------|-----------------------|------------------------|--------------|----------------------------|---------------|---------------|--------------|----------------------------|--------------------|--------------|---------------------------------|-------------|-----------|----------------|------------|----------------|-----|--------|------|-----------------|----------|
| Tas | k Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total TRA Slack | Predecessors | 2020 | 03 04 | 01 | 2021 O2 O | 3 04 | 01 | 202 | 03 0 | 4 01 | 2023 Q2 Q3 | 04 |
|) | D3 North Approach Ramp (Structure) | 398 days | 348.95 days | | 0% | Mon 3/6/19 | Sat 4/7/20 | Mon 3/6/19 | NA | Mon 3/6/19 | Thu 8/10/20 | 96 days | | | | | | | | | | 7 Q1 | Q2 Q3 | <u> </u> |
| | Prepare AIP and ICE certification (Draft)) | 51 days | 51 days | 0 days | 100% | Mon 3/6/19 | Tue 23/7/19 | Mon 3/6/19 | Tue 23/7/19 | Mon 3/6/19 | Tue 23/7/19 | 0 days 3 days | 4 | | | | | | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 100 days | 100 days | 0 days | 100% | Thu 25/7/19 | Fri 1/11/19 | Thu 25/7/19 | Fri 1/11/19 | Thu 25/7/19 | Fri 1/11/19 | 0 days 1 days | 221 | | | | | | | | | | | |
| | Prepare AIP and ICE certification (Final) | 14 days | 14 days | 0 days | 100% | Tue 6/8/19 | Thu 19/12/19 | Tue 6/8/19 | Thu 19/12/19 | Tue 6/8/19 | Thu 19/12/19 | 0 days 0 days | 221,222 | | | | | | | | | | | |
| 1 | Prepare DDA (Draft) with ICE certification | 66 days | 66 days | 0 days | 100% | Fri 19/7/19 | Thu 20/2/20 | Fri 19/7/19 | Thu 20/2/20 | Fri 19/7/19 | Thu 20/2/20 | 0 days 5 days | 221,223FF | | | | | | | | | | | |
| 5 | Submit & endorse by PM/Statutory Authorities/Gov. Dept | 31 days | 31 days | 0 days | 100% | Mon 20/1/20 | Mon 23/3/20 | Mon 20/1/20 | Mon 23/3/20 | Mon 20/1/20 | Mon 23/3/20 | 0 days 3 days | 224 | | | | | | | | | | | |
| 6 | Prepare DDA for and ICE certification (Final) | 45 days | 45 days | 0 days | 100% | Wed 1/4/20 | Fri 15/5/20 | Wed 1/4/20 | Fri 15/5/20 | Wed 1/4/20 | Fri 15/5/20 | 0 days | 225 | | | | | | | | | | | |
| 7 | Submit & endorse by PM/Statutory Authorities/Gov. Dept | 50 days | 6 days | 44 days | 12% | Sat 16/5/20 | Sat 4/7/20 | Sat 16/5/20 | NA | Sat 16/5/20 | Thu 8/10/20 | 96 days 0.5 days | 226 | | | | | | | | | | | |
| 8 | D3 North Approach Ramp (E&M Works) | 329 days | 0 days | 329 days | 0% | Thu 2/7/20 | Wed 26/5/21 | NA | NA | Fri 27/11/20 | Thu 21/10/21 | 148 days | | | | | | | | | | | | |
|) | Prepare AIP (E&M works) and ICE certification (Draft) | 32 days | 0 days | 32 days | 0% | Thu 2/7/20 | Sun 2/8/20 | NA | NA | Fri 27/11/20 | Mon 28/12/20 | 148 days 2 days | | | | | | | | | | | | |
| 0 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | 0 days | 62 days | 0% | Mon 3/8/20 | Sat 3/10/20 | NA | NA | Tue 29/12/20 | Sun 28/2/21 | 148 days 2 days | 229 | | | | | | | | | | | |
| | Prepare AIP (E&M works) and ICE certification (Final) | 32 days | 0 days | 32 days | 0% | Sun 4/10/20 | Wed 4/11/20 | NA | NA | Mon 1/3/21 | Thu 1/4/21 | 148 days 2 days | 230 | | | | | | | | | | | |
| 2 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | | 62 days | 0% | Thu 5/11/20 | Tue 5/1/21 | NA | NA | Fri 2/4/21 | Wed 2/6/21 | 148 days 2 days | 231 | | | | | | | | | | | |
| 3 | Prepare DDA (E&M works) and ICE certification (Draft) | 32 days | | 32 days | 0% | Sat 5/12/20 | Tue 5/1/21 | NA | NA | Sun 2/5/21 | Wed 2/6/21 | 148 days 2 days | 232FF | | | | | | | | | | | |
| 1 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | | 62 days | 0% | Wed 6/1/21 | Mon 8/3/21 | | NA | Thu 3/6/21 | Tue 3/8/21 | 148 days 2 days | 233 | | | | | | | | | | | |
| 5 | Prepare DDA (E&M works) and ICE certification (Final) | 17 days | | 17 days | 0% | Tue 9/3/21 | Thu 25/3/21 | | NA | Wed 4/8/21 | Fri 20/8/21 | 148 days 2 days | 234 | _ | | l III , | | | | | | | | |
| 5 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | | 62 days | 0% | Fri 26/3/21 | Wed 26/5/21 | | NA NA | Sat 21/8/21 | Thu 21/10/21 | 148 days 2 days | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | 233 | | | | | | | | | | | |
| 7 | D3 South Approach Ramp | | | 184.36 days | 0% | Thu 30/5/19 | | Thu 30/5/19 | | Thu 30/5/19 | Tue 16/2/21 | 122 days | | | | | | | | | | | | |
| 8 | Prepare AIP and ICE certification (Draft) | | 96 days | 0 days | 100% | Thu 30/5/19 | Mon 2/9/19 | Thu 30/5/19 | | | Mon 2/9/19 | 0 days 3 days | | | | | | | | | | | | |
|) | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 35 days | | 0 days | 100% | Wed 25/9/19 | | Wed 25/9/19 | | | Tue 29/10/19 | 0 days 1 day | 238 | | | | | | | | | | | |
|) | Prepare AIP Submission (Final) | 76 days | 76 days | 0 days | 100% | Fri 7/2/20 | Mon 4/5/20 | Fri 7/2/20 | Mon 4/5/20 | | Mon 4/5/20 | 0 days 1 day | 238,239 | | | | | | | | | | | |
| 1 | Prepare DDA and ICE certification (Draft) | 50 days | 50 days | 0 days | 100% | Wed 1/4/20 | | Wed 1/4/20 | Wed 20/5/20 | | Wed 20/5/20 | 0 days 5 days | 240FF+15 day | /S | | | | | | | | | | |
| 2 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 2 days | 58 days | 3% | Thu 21/5/20 | Sun 19/7/20 | Thu 21/5/20 | NA | Thu 21/5/20 | Wed 18/11/20 | 122 days 1 day | 238,241 | | | | | | | | | | | |
| .3 | Prepare DDA for and ICE certification (Final) | 30 days | 0 days | 30 days | 0% | Mon 20/7/20 | Tue 18/8/20 | NA | NA | Thu 19/11/20 | Fri 18/12/20 | 122 days 1 day | 242,240FF+12 | 2 d | | | | | | | | | | |
| 4 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 0 days | 60 days | 0% | Wed 19/8/20 | Sat 17/10/20 | NA | NA | Sat 19/12/20 | Tue 16/2/21 | 122 days 1 day | 243 | | | | | | | | | | | |
| 5 | D3 South Approach Ramp (E&M Works) | 392 days | 0 days | 392 days | 0% | Sat 23/5/20 | Fri 18/6/21 | NA | NA | Wed 18/11/20 | Tue 14/12/21 | 179 days | | | | | | | | | | | | |
| 6 | Prepare AIP (E&M works) and ICE certification (Draft) | 31 days | 0 days | 31 days | 0% | Sat 23/5/20 | Mon 22/6/20 | NA | NA | Wed 18/11/20 | Fri 18/12/20 | 179 days 1 day | | | | | | | | | | | | |
| 7 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Tue 23/6/20 | Sun 6/9/20 | NA | NA | Sat 19/12/20 | Thu 4/3/21 | 179 days 1 day | 246 | | | | | | | | | | | |
| 8 | Prepare AIP (E&M works) and ICE certification (Final) | 31 days | 0 days | 31 days | 0% | Mon 7/9/20 | Wed 7/10/20 | NA | NA | Fri 5/3/21 | Sun 4/4/21 | 179 days 1 day | 247 | | | | | | | | | | | |
| .9 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Thu 8/10/20 | Tue 22/12/20 | NA | NA | Mon 5/4/21 | Sat 19/6/21 | 179 days 1 day | 248 | | | | | | | | | | | |
| 0 | Prepare DDA (E&M works) and ICE certification (Draft) | 31 days | 0 days | 31 days | 0% | Sun 22/11/20 | Tue 22/12/20 | NA | NA | Thu 20/5/21 | Sat 19/6/21 | 179 days 1 day | 249FF | | | | | | | | | | | |
| 1 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Wed 23/12/20 | Mon 8/3/21 | NA | NA | Sun 20/6/21 | Fri 3/9/21 | 179 days 1 day | 250 | | | | | | | | | | | |
| 2 | Prepare DDA (E&M works) and ICE certification (Final) | 26 days | 0 days | 26 days | 0% | Tue 9/3/21 | Sat 3/4/21 | NA | NA | Sat 4/9/21 | Wed 29/9/21 | 179 days 1 day | 251 | | | | | | | | | | | |
| 3 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Sun 4/4/21 | Fri 18/6/21 | NA | NA | Thu 30/9/21 | Tue 14/12/21 | 179 days 1 day | 252 | | | | | | \blacksquare | | | | | |
| 4 | Road D3 Underpass and Depressed Road | 823 days | 236.99 days | 586.01 days | 0% | Thu 30/5/19 | Sun 29/8/21 | Thu 30/5/19 | NA | Thu 30/5/19 | Wed 11/1/23 | 500 days | | | | | | 1 | | | | | | |
| 5 | Underpass (Structure) | 486 days | 320.41 days | 165.59 days | 0% | Thu 30/5/19 | Sat 26/9/20 | Thu 30/5/19 | NA | Thu 30/5/19 | Wed 2/12/20 | 67 days | | | | | | | | | | | | |
| 6 | Prepare AIP and ICE certification (Draft) | 96 days | 96 days | 0 days | 100% | Thu 30/5/19 | Mon 2/9/19 | Thu 30/5/19 | Mon 2/9/19 | Thu 30/5/19 | Mon 2/9/19 | 0 days 3 days | 4 | $\parallel \parallel \parallel$ | | | | | | | | | | |
| 7 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | | 17 days | 0 days | 100% | Tue 3/9/19 | Thu 19/9/19 | Tue 3/9/19 | Thu 19/9/19 | Tue 3/9/19 | Thu 19/9/19 | 0 days 1 days | 256 | $-\parallel\parallel\parallel$ | | | | | | | | | | |
| 3 | Prepare AIP and ICE certification (Final) | | 84 days | 0 days | 100% | Tue 14/1/20 | Mon 6/4/20 | Tue 14/1/20 | Mon 6/4/20 | Tue 14/1/20 | Mon 6/4/20 | 0 days 2 days | 256,257 | _ _ | | | | | | | | | | |
|) | Prepare DDA (Draft) Preparation | | 156 days | 0 days | 100% | Tue 3/9/19 | Wed 5/2/20 | Tue 3/9/19 | Wed 5/2/20 | | Wed 5/2/20 | 0 days 3 days | 256 | $\parallel \parallel \parallel$ | | | | | | | | | | |
|) | DDA (Draft) Submit & endorse by PM & Statutory Authorities/Gov. Dept | 169 days | | 135 days | 20% | Thu 6/2/20 | Thu 23/7/20 | Thu 6/2/20 | NA | Thu 6/2/20 | Mon 28/9/20 | 67 days 0.5 days | | | | | | | | | | | | |
| 1 | Prepare DDA for and ICE certification (Final) | 15 days | | 15 days | 0% | Fri 24/7/20 | | NA | NA | Tue 29/9/20 | | | 260,258FF+21 | d | | | | | | | | | | |
| 2 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | 0% | Sat 8/8/20 | Sat 26/9/20 | | NA | Wed 14/10/20 | Wed 2/12/20 | 67 days 1 day | 261 | | | | | | | | | | | |
| 53 | Underpass (E&M Works) | 392 days | | 392 days | 0% | Mon 3/8/20 | Sat 20/9/20 Sun 29/8/21 | | NA NA | | Wed 2/12/20 Wed 11/1/23 | 99 days | 201 | _ | | | | | | | | | | |
| | | | | | | | | | | Tue 10/11/20 | | | | | | | | • | | | | | | |
| 164 | Prepare AIP (E&M works) and ICE certification (Draft) | 32 days | o days | 32 days | 0% | Mon 5/10/20 | Thu 5/11/20 | INA | NA | Tue 10/11/20 | Fri 11/12/20 | 36 days 2 days | | | | | | | | | | | | |
| e: Rev. | 11 Prog with Progress Task | Summary Project Sum | amort. | | Inactive M | | | Duration-or | • | | Start-only | C 3 | | xtemal Milest | one < | > | | Critical S | | | | | | |
| of 22-I | May-20 Split Milestone ◆ | Project Sun Inactive Ta | | U | Inactive Su Manual Ta | | | Manual Sui | mmary Rollup | | Finish-only External Tasi | | | eadline ritical | | - | | Progress | Progress | _ | | | | |

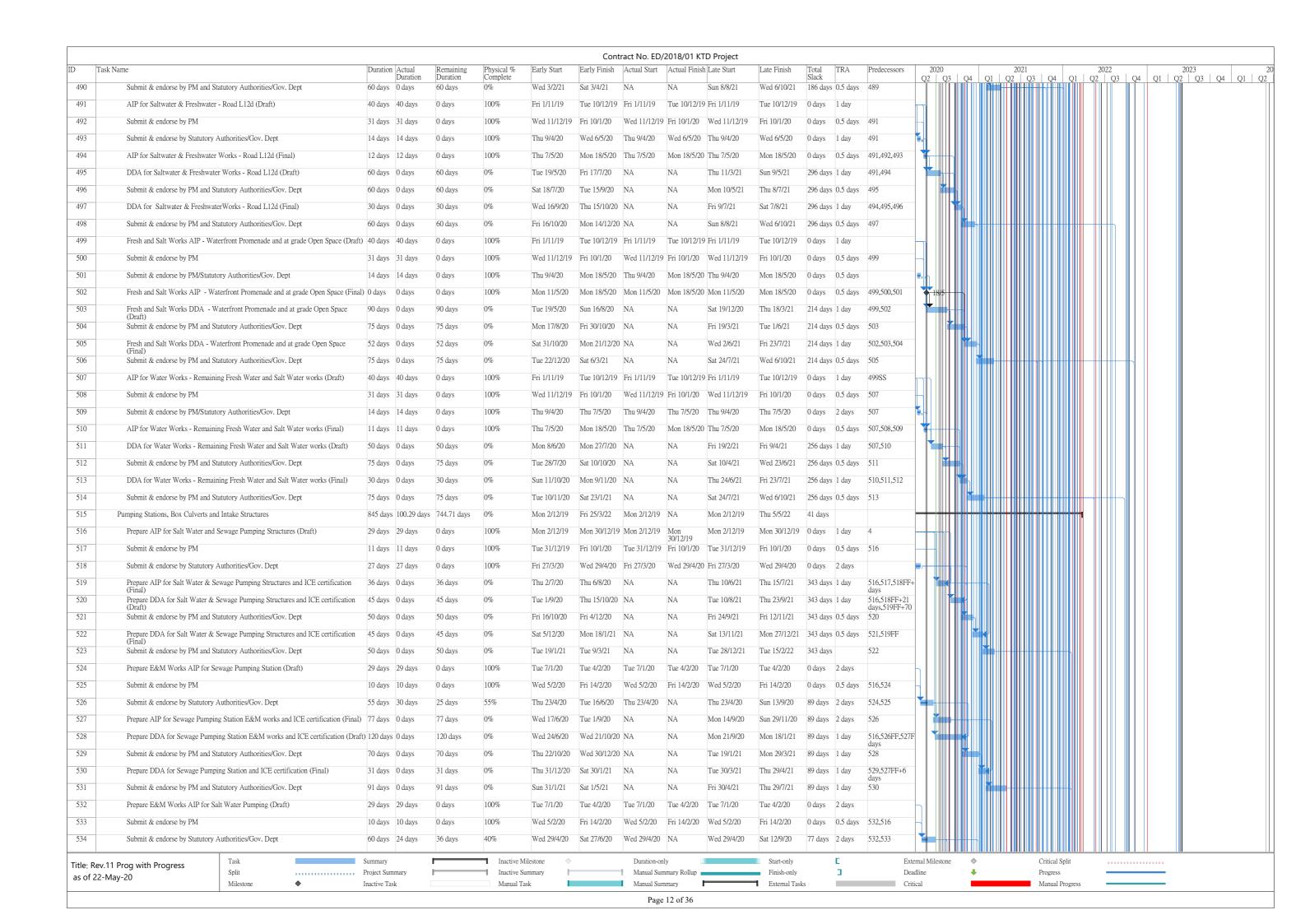
| | | | | | | COII | liact No. ED/ | 2010/01 K | TD Project | | | | | | | | | | | | | |
|-----|---|----------------------------|-----------------------|------------------------|--------------|--------------|------------------------|---------------------|---------------|------------------------|----------------|--------|----------------|-----------------------|---|-------------|--------|---|---------|----------|---------|--------|
| | ask Name | Duration Actual | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | sh Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 | 2 04 | 01 0 | 2021 | 04 01 | 2022 | 04 01 | 2023 | 04 |
| 65 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | Duration 62 days 0 days | 62 days | Complete 0% | Fri 6/11/20 | Wed 6/1/21 | NA | NA | Sat 12/12/20 | Thu 11/2/21 | 36 days | 2 days | 264 | Q2 Q3 | 5 Q4 | Q1 Q | 2 Q3 | _Q4 Q1 | Q2 Q3 | Q4 Q1 | Q2 Q3 | Q4 (|
| 266 | Prepare AIP (E&M works) and ICE certification (Final) | 32 days 0 days | 32 days | 0% | Thu 7/1/21 | Sun 7/2/21 | NA | NA | Fri 12/2/21 | Mon 15/3/21 | 36 days | 2 days | 265 | | | | | | | | | |
| 67 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days 0 days | 62 days | 0% | Mon 8/2/21 | Sat 10/4/21 | NA | NA | Tue 16/3/21 | Sun 16/5/21 | 36 days | | 266 | | | | | | | | | |
| 68 | Prepare DDA (E&M works) and ICE certification (Draft) | 32 days 0 days | 32 days | 0% | Wed 10/3/21 | Sat 10/4/21 | | NA | Thu 15/4/21 | Sun 16/5/21 | 36 days | | 267FF | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 269 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days 0 days | 62 days | 0% | Sun 11/4/21 | | NA | NA | Mon 17/5/21 | Sat 17/7/21 | 36 days | | 268 | | | | | | | | | |
| 70 | Prepare DDA (E&M works) and ICE certification (Final) | 17 days 0 days | 17 days | 0% | Sat 12/6/21 | Mon 28/6/21 | NA | NA | Sun 18/7/21 | Tue 3/8/21 | 36 days | 2 days | 269 | | | | | | | | | |
| 271 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days 0 days | 62 days | 0% | Tue 29/6/21 | Sun 29/8/21 | NA | NA | Wed 4/8/21 | Mon 4/10/21 | 36 days | 2 days | 270 | | | | | | | | | |
| 272 | Prepare AIP (E&M works) and Architectural Finishes of of Underpass (Road L14) and ICE certification (Draft) | 31 days 0 days | 31 days | 0% | Mon 3/8/20 | Wed 2/9/20 | NA | NA | Thu 31/3/22 | Sat 30/4/22 | 605 days | 1 day | | | Ь | | | | | | | |
| 273 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 51 days 0 days | 51 days | 0% | Thu 3/9/20 | Fri 23/10/20 | NA | NA | Sun 1/5/22 | Mon 20/6/22 | 605 days | 1 day | 272 | | | | | | | | | |
| 274 | Prepare AIP (E&M works)and Architectural Finishes of of Underpass (Road L14) and ICE certification (Final) | 14 days 0 days | 14 days | 0% | Sat 24/10/20 | Fri 6/11/20 | NA | NA | Tue 21/6/22 | Mon 4/7/22 | 605 days | 2 days | 273 | | | | | | | | | |
| 75 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 74 days 0 days | 74 days | 0% | Sat 7/11/20 | Tue 19/1/21 | NA | NA | Tue 5/7/22 | Fri 16/9/22 | 605 days | 1 day | 274 | | | - | | | | | | |
| 76 | Prepare DDA (E&M works) and Architectural Finishes of of Underpass (Road | 31 days 0 days | 31 days | 0% | Sun 20/12/20 | Tue 19/1/21 | NA | NA | Wed 17/8/22 | Fri 16/9/22 | 605 days | 1 day | 275FF | | | | | | | | | |
| 77 | L14) and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 51 days 0 days | 51 days | 0% | Wed 20/1/21 | Thu 11/3/21 | NA | NA | Sat 17/9/22 | Sun 6/11/22 | 605 days | 1 day | 276 | | | - | | | | | | |
| 78 | Prepare DDA (E&M works) and Architectural Finishes of of Underpass (Road | 15 days 0 days | 15 days | 0% | Fri 12/3/21 | Fri 26/3/21 | NA | NA | Mon 7/11/22 | Mon 21/11/22 | | | 277 | | | | | | | | | |
| 79 | L14) and ICE certification (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 51 days 0 days | 51 days | 0% | Sat 27/3/21 | Sun 16/5/21 | | NA | Tue 22/11/22 | Wed 11/1/23 | | | 278 | | | l I I I I I | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | - | 276 | | | | | | | | | |
| 80 | E&M Work for Pump House of Underpass D3 | 364 days 83.71 days | | 0% | Mon 24/2/20 | Sun 21/2/21 | Mon 24/2/20 | | Mon 24/2/20 | Wed 18/8/21 | 178 days | | | | | 7 | | | | | | |
| 81 | Prepare AIP (E&M works) Submission (Draft) | 11 days 11 days | 0 days | 0% | Mon 24/2/20 | Thu 5/3/20 | Mon 24/2/20 | Thu 5/3/20 | Mon 24/2/20 | Thu 5/3/20 | 0 days | 2 days | | | | | | | | | | |
| 82 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 160 days 78 days | 82 days | 49% | Fri 6/3/20 | Wed 12/8/20 | Fri 6/3/20 | NA | Fri 6/3/20 | Sat 15/8/20 | 3 days | 2 days | 281 | | | | | | | | | |
| 283 | Prepare AIP (E&M works) and ICE certification (Final) | 21 days 0 days | 21 days | 0% | Thu 13/8/20 | Wed 2/9/20 | NA | NA | Sun 16/8/20 | Sat 5/9/20 | 3 days | 2 days | 282,44FF+12 da | | | | | | | | | |
| 84 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days 0 days | 50 days | 0% | Thu 3/9/20 | Thu 22/10/20 | NA | NA | Sun 6/9/20 | Sun 25/10/20 | 3 days | 2 days | 283 | | | | | | | | | |
| 85 | Prepare DDA (E&M works) and ICE certification (Draft) | 30 days 0 days | 30 days | 0% | Wed 30/9/20 | Thu 29/10/20 | NA | NA | Sat 3/10/20 | Sun 1/11/20 | 3 days | 2 days | 284FF+7 days | | | | | | | | | |
| 86 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days 0 days | 50 days | 0% | Fri 30/10/20 | Fri 18/12/20 | NA | NA | Mon 2/11/20 | Mon 21/12/20 | 3 days | 2 days | 285 | | | Ы | | | | | | |
| 87 | Prepare DDA (E&M works) and ICE certification (Final) | 15 days 0 days | 15 days | 0% | Sat 19/12/20 | Sat 2/1/21 | NA | NA | Tue 22/12/20 | Tue 5/1/21 | 3 days | 2 days | 286 | | | | | | | | | |
| 288 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days 0 days | 50 days | 0% | Sun 3/1/21 | Sun 21/2/21 | NA | NA | Wed 30/6/21 | Wed 18/8/21 | 178 days | 2 days | 287 | | | | | | | | | |
| 289 | Depressed Road (North) Structure | 463 days 335.18 days | | 0% | Thu 16/5/19 | Thu 20/8/20 | Thu 16/5/19 | | Thu 16/5/19 | Thu 11/5/23 | 994 days | | | | | | | | | | | |
| 90 | Prepare AIP and ICE certification (Draft) | 65 days 65 days | 0 days | 100% | Thu 16/5/19 | Fri 2/8/19 | Thu 16/5/19 | | Thu 16/5/19 | Fri 2/8/19 | | 1 days | 4 | | | | | | | | | |
| | | | | | | | | | | | | | 200 | | | | | | | | | |
| 91 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 33 days 33 days | 0 days | 100% | Sat 3/8/19 | Wed 4/9/19 | Sat 3/8/19 | | Sat 3/8/19 | Wed 4/9/19 | | 2 days | 290 | | | | | | | | | |
| 92 | Prepare AIP and ICE certification (Final) | 44 days 44 days | 0 days | 100% | Mon 9/12/19 | | | | Mon 9/12/19 | Tue 21/1/20 | 1 | 0 days | 291 | | | | | | | | | |
| 193 | Prepare DDA and ICE certification (Draft) | 57 days 57 days | 0 days | 100% | Tue 24/9/19 | Tue 19/11/19 | Tue 24/9/19 | Tue 19/11/1 | 9 Tue 24/9/19 | Tue 19/11/19 | 0 days | 5 days | 290 | | | | | | | | | |
| 94 | Submit & endorse by PM | 17 days 17 days | 0 days | 100% | Tue 19/11/19 | Thu 5/12/19 | Tue 19/11/19 | Thu 5/12/19 | Tue 19/11/19 | Thu 5/12/19 | 0 days | 1 day | 293 | | | | | | | | | |
| 95 | Submit & endorse by Statutory Authorities/Gov. Dept | 20 days 20 days | 0 days | 100% | Wed 19/2/20 | Mon 9/3/20 | Wed 19/2/20 | Mon 9/3/20 | Wed 19/2/20 | Mon 9/3/20 | 0 days | 1 day | 293 | _ | | | | | | | | |
| 296 | Prepare DDA for and ICE certification (Final) | 30 days 0 days | 30 days | 0% | Sat 23/5/20 | Sun 21/6/20 | NA | NA | Sat 11/2/23 | Sun 12/3/23 | 994 days | 3 days | 294,292FF,295 | | | | | | | | | |
| 297 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days 0 days | 60 days | 0% | Mon 22/6/20 | Thu 20/8/20 | NA | NA | Mon 13/3/23 | Thu 11/5/23 | 994 days | 5 days | 296 | | | | | | | | | |
| 298 | Depressed Road (North) E&M Works | 322 days 0 days | 322 days | 0% | Mon 21/9/20 | Sun 8/8/21 | NA | NA | Tue 17/11/20 | Mon 4/10/21 | 57 days | | | | , | | | | | | | |
| 299 | Prepare AIP (E&M works) and ICE certification (Draft) | 31 days 0 days | 31 days | 0% | Mon 21/9/20 | Wed 21/10/20 |) NA | NA | Tue 17/11/20 | Thu 17/12/20 | 57 days | 1 dav | | | | | | | | | | |
| 800 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days 0 days | 61 days | 0% | | Mon 21/12/20 | | NA | Fri 18/12/20 | Tue 16/2/21 | 57 days | | 299 | | | | | | | | | |
| 801 | Prepare AIP (E&M works) and ICE certification (Final) | | | 0% | Tue 22/12/20 | | | NA | Wed 17/2/21 | Fri 19/3/21 | 57 days | | 300 | | | | | | | | | |
| | | 31 days 0 days | 31 days | | | | | | | | | | | | | | | | | | | |
| 02 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days 0 days | 61 days | 0% | Fri 22/1/21 | Tue 23/3/21 | | NA | Sat 20/3/21 | Wed 19/5/21 | 57 days | | 301 | | | | | | | | | |
| 03 | Prepare DDA (E&M works) and ICE certification (Draft) | 31 days 0 days | 31 days | 0% | Sun 21/2/21 | Tue 23/3/21 | | NA | Mon 19/4/21 | Wed 19/5/21 | | | 302FF | | | | | | | | | |
| 04 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days 0 days | 61 days | 0% | Wed 24/3/21 | Sun 23/5/21 | NA | NA | Thu 20/5/21 | Mon 19/7/21 | 57 days | 1 day | 303 | | | | Н | | | | | |
| 05 | Prepare DDA (E&M works) and ICE certification (Final) | 16 days 0 days | 16 days | 0% | Mon 24/5/21 | Tue 8/6/21 | NA | NA | Tue 20/7/21 | Wed 4/8/21 | 57 days | 1 day | 304 | | | | | | | | | |
| 06 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days 0 days | 61 days | 0% | Wed 9/6/21 | Sun 8/8/21 | NA | NA | Thu 5/8/21 | Mon 4/10/21 | 57 days | 1 day | 305 | | | | | | | | | |
| 07 | Depressed Road (South) and Substructure of Elevated Landscape Deck | 463 days 333.16 days | s 129.84 days | 0% | Mon 10/6/19 | Mon 14/9/20 | Mon 10/6/19 | NA | Mon 10/6/19 | Thu 15/10/20 | 31 days | | | | $H = \begin{bmatrix} 1 & 1 & 1 \end{bmatrix}$ | | | | | | | |
| 308 | Prepare AIP and ICE certification (Draft) | 54 days 54 days | 0 days | 100% | Mon 10/6/19 | Fri 2/8/19 | Mon 10/6/19 | Fri 2/8/19 | Mon 10/6/19 | Fri 2/8/19 | 0 days | 1 days | | | | | | | | | | |
| 309 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 81 days 81 days | 0 days | 100% | Sat 3/8/19 | Tue 22/10/19 | Sat 3/8/19 | Tue 22/10/1 | 9 Sat 3/8/19 | Tue 22/10/19 | 0 days | 2 days | 308 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 111111111111111111111111111111111111111 | | <u> </u> | | |
| | 7.11 Prog With Progress | Summary Project Summary | | Inactive M | | | Duration-or Manual Sur | nly nmary Rollup | | Start-only Finish-only | | C 3 | Exter Dead | mal Mileston Iline | e < | > L | | ritical Split rogress | | | | |
| | -May-20 | . годось одиници у | | Manual Ta | | | vimiuai Jul | ur J NOHUP | | External Tas | | - | Deau | | | • | г | -51000 | | | | |

| | | | | | | | Con | tract No. ED/ | 2018/01 K | ID Project | | | | | | | | | | | | | | | |
|-------------|--|-------------|----------------------|-----------------------|------------------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------------|----------------------------|------|------------|----------|-------|---------------|------|------|--------|--------------|--------|-----------|---|
| Task | Name | Duration | n Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | h Late Start | Late Finish | Total TRA Slack | Predecessors 202 | | 04 0 | 1 0 | 2021 | 04 | 01 | 2022 | 03 6 | M 0 | 1 02 | 023 Q3 | _ |
| 10 | Prepare AIP and ICE (certification (Final) | 270 days | s 222 days | 48 days | 82% | Tue 15/10/19 | Fri 10/7/20 | Tue 15/10/19 | NA | Tue 15/10/19 | Mon 10/8/20 | 31 days 0 days | 309,44FF+12 da | | Q4 Q | | | Q4 | Q1 | | 23 0 | <u>14 Q1</u> | . Q2 | | |
| 11 | Prepare DDA certification (Draft) | 27 days | 27 days | 0 days | 100% | Mon 10/2/20 | Sat 7/3/20 | Mon 10/2/20 | Sat 7/3/20 | Mon 10/2/20 | Sat 7/3/20 | 0 days 5 days | 308 | | | | | | | | | | | | |
| 312 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 24 days | 51 days | 32% | Wed 29/4/20 | Thu 16/7/20 | Wed 29/4/20 | NA | Wed 29/4/20 | Sun 16/8/20 | 31 days 1 days | 311,310FF+6 | | | | | | | | | | | | |
| 313 | Prepare DDA for and ICE certification (Final) | 10 days | 0 days | 10 days | 0% | Fri 17/7/20 | Sun 26/7/20 | NA | NA | Mon 17/8/20 | Wed 26/8/20 | 31 days 0.5 days | 312 | | | | | | | | | | | | |
| 314 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | 0 days | 50 days | 0% | Mon 27/7/20 | Mon 14/9/20 | NA | NA | Thu 27/8/20 | Thu 15/10/20 | 31 days 0.5 days | 313 | | | | | $\mathbb{H} $ | | | | | | | |
| 315 | South Depressed Road (E&M Works) | 382 days | s 0 days | 382 days | 0% | Mon 7/9/20 | Thu 23/9/21 | NA | NA | Fri 18/9/20 | Mon 4/10/21 | 11 days | | | | | | 1 | | | | | | | |
| 316 | Prepare AIP (E&M works) and ICE certification (Draft) | 31 days | 0 days | 31 days | 0% | Mon 7/9/20 | Wed 7/10/20 | NA | NA | Fri 18/9/20 | Sun 18/10/20 | 11 days 1 day | | | | | | | | | | | | | |
| 317 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Thu 8/10/20 | Tue 22/12/20 | NA | NA | Mon 19/10/20 | Sat 2/1/21 | 11 days 1 day | 316 | | | | | | | | | | | | |
| 318 | Prepare AIP (E&M works) and ICE certification (Final) | 31 days | 0 days | 31 days | 0% | Wed 23/12/20 | Fri 22/1/21 | NA | NA | Sun 3/1/21 | Tue 2/2/21 | 11 days 1 day | 317 | | * | | | | | | | | | | |
| 19 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Sat 23/1/21 | Thu 8/4/21 | NA | NA | Wed 3/2/21 | Mon 19/4/21 | 11 days 1 day | 318 | | | | | | | | | | | | |
| 20 | Prepare DDA (E&M works) and ICE certification (Draft) | 31 days | 0 days | 31 days | 0% | Tue 9/3/21 | Thu 8/4/21 | NA | NA | Sat 20/3/21 | Mon 19/4/21 | 11 days 1 day | 319FF | | | | | | | | | | | | |
| 21 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | | 0 days | 76 days | 0% | Fri 9/4/21 | Wed 23/6/21 | NA | NA | Tue 20/4/21 | Sun 4/7/21 | 11 days 1 day | 320 | | | | | | | | | | | | |
| 22 | Prepare DDA (E&M works) and ICE certification (Final) | | 0 days | 16 days | 0% | Thu 24/6/21 | Fri 9/7/21 | NA | NA | Mon 5/7/21 | Tue 20/7/21 | 11 days 1 day | 321 | | | | | | | | | | | | |
| 23 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | | 0 days | 76 days | 0% | Sat 10/7/21 | Thu 23/9/21 | | NA | Wed 21/7/21 | Mon 4/10/21 | 11 days 1 day | 322 | | | | | | | | | | | | |
| 24 | Road Works (Civil Works) | | s 196.01 days | | 0% | Tue 13/8/19 | Fri 4/6/21 | Tue 13/8/19 | | Tue 13/8/19 | Tue 14/12/21 | 193 days | | Ш | | | | | | | | | | | |
| 325 | | | 57 days | | 100% | Tue 13/8/19 | | | | Tue 13/8/19 | | | 293SS+75 days | | | | | | | | | | | | |
| 26 | Prepare AIP for At-grade Road D3 and ICE certification (Draft) | | | 0 days | | | Tue 8/10/19 | | | | Tue 8/10/19 | 0 days 1 day | | | | | | | | | | | | | |
| | Submit & endorse by PM | | 21 days | 0 days | 100% | Wed 9/10/19 | | Wed 9/10/19 | | | Tue 29/10/19 | | | | | | | | | | | | | | |
| 27 | Submit & endorse by Statutory Authorities/Gov. Dept | | 24 days | 0 days | 100% | Wed 30/10/19 | | | | Wed 30/10/19 | Fri 22/11/19 | 0 days 1 day | 325 | | | | | | | | | | | | |
| 328 | Prepare AIP for At-grade Road D3 and ICE certification (Final) | | 57 days | 0 days | 100% | Thu 5/3/20 | Mon 4/5/20 | Thu 5/3/20 | Mon 4/5/20 | | Mon 4/5/20 | 0 days 0 days | 326FS+12 days,327,44FF+ | | | | | | | | | | | | |
| 29 | Prepare DDA for At-grade Road D3 and ICE certification (Draft) | 210 days | s 0 days | 210 days | 0% | Sat 23/5/20 | Fri 18/12/20 | | NA | Wed 2/12/20 | Tue 29/6/21 | 193 days 5 days | days,328FF+6 | | | | | | | | | | | | |
| 30 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Sat 19/12/20 | Wed 3/3/21 | NA | NA | Wed 30/6/21 | Sun 12/9/21 | 193 days 0.5 days | 329 | | | | | | | | | | | | |
| 331 | Prepare DDA for At-grade Road D3 and ICE certification (Final) | 16 days | 0 days | 16 days | 0% | Thu 4/3/21 | Fri 19/3/21 | NA | NA | Mon 13/9/21 | Tue 28/9/21 | 193 days 1 day | 330 | | | H | | | | | | | | | |
| 32 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 77 days | 0 days | 77 days | 0% | Sat 20/3/21 | Fri 4/6/21 | NA | NA | Wed 29/9/21 | Tue 14/12/21 | 193 days 2 days | 331 | | | | | | | | | | | | |
| 33 | Remaining Road Works (E&M Works) | 382 days | s 0 days | 382 days | 0% | Mon 5/10/20 | Thu 21/10/21 | NA | NA | Sat 13/2/21 | Tue 1/3/22 | 131 days | | | | | | + | | | | | | | |
| 34 | Prepare AIP (E&M works) and ICE certification (Draft) | 31 days | 0 days | 31 days | 0% | Mon 5/10/20 | Wed 4/11/20 | NA | NA | Sat 13/2/21 | Mon 15/3/21 | 131 days 1 day | | | | | | | | | | | | | |
| 35 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Thu 5/11/20 | Tue 19/1/21 | NA | NA | Tue 16/3/21 | Sun 30/5/21 | 131 days 1 day | 334 | | | | | | | | | | | | |
| 36 | Prepare AIP (E&M works) and ICE certification (Final) | 31 days | 0 days | 31 days | 0% | Wed 20/1/21 | Fri 19/2/21 | NA | NA | Mon 31/5/21 | Wed 30/6/21 | 131 days 1 day | 335 | | III | | | | | | | | | | |
| 137 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Sat 20/2/21 | Thu 6/5/21 | NA | NA | Thu 1/7/21 | Tue 14/9/21 | 131 days 1 day | 336 | | | T | | | | | | | | | |
| 38 | Prepare DDA (E&M works) and ICE certification (Draft) | 31 days | 0 days | 31 days | 0% | Tue 6/4/21 | Thu 6/5/21 | NA | NA | Sun 15/8/21 | Tue 14/9/21 | 131 days 1 day | 337FF | | | | | | | | | | | | |
| 339 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Fri 7/5/21 | Wed 21/7/21 | NA | NA | Wed 15/9/21 | Mon 29/11/21 | 131 days 1 day | 338 | | | | | | | | | | | | |
| 340 | Prepare DDA (E&M works) and ICE certification (Final) | 16 days | 0 days | 16 days | 0% | Thu 22/7/21 | Fri 6/8/21 | NA | NA | Tue 30/11/21 | Wed 15/12/21 | 131 days 1 day | 339 | | | | | | | | | | | | |
| 341 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 76 days | 0 days | 76 days | 0% | Sat 7/8/21 | Thu 21/10/21 | NA | NA | Thu 16/12/21 | Tue 1/3/22 | 131 days 1 day | 340 | | | | | | | | | | | | |
| 342 | Road L12d Works (Roadworks) | 791 days | s 261.27 days | 529.73 days | 0% | Tue 6/8/19 | Mon 4/10/21 | Tue 6/8/19 | NA | Tue 6/8/19 | Tue 28/2/23 | 512 days | | | | | | - | | | | | | | |
| 343 | Prepare AIP for Road L12d Submission (Draft) | 64 days | 64 days | 0 days | 100% | Tue 6/8/19 | Tue 8/10/19 | Tue 6/8/19 | Tue 8/10/19 | Tue 6/8/19 | Tue 8/10/19 | 0 days 1 day | 325 | | | | | | | | | | | | |
| 44 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 377 days | s 227 days | 150 days | 60% | Wed 9/10/19 | Mon 19/10/20 | 0 Wed 9/10/19 | NA | Wed 9/10/19 | Tue 15/3/22 | 512 days | | | -2 | | | | | | | | | | |
| 345 | | | | 120 days | 0% | Tue 20/10/20 | Tue 16/2/21 | | NA | Wed 16/3/22 | Wed 13/7/22 | 512 days 0 days | 343,44FF+12 | | | | | | | | | | | | |
| 346 | (Final) Prepare DDA for Road L12d (Include E&M Provision Works) and ICE certification | | | 120 days | 0% | Thu 19/11/20 | | | NA | Fri 15/4/22 | Fri 12/8/22 | 512 days 1 day | days,344 343FS+260 | | | | | | | | | | | | |
| 347 | (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept | | 0 days | 75 days | 0% | Fri 19/3/21 | Tue 1/6/21 | | NA | Sat 13/8/22 | | 512 days 1 day | days,345FF+30 | | | | | | | | | | | | |
| 348 | Prepare DDA for Road L12d (Include E&M Provision Works) and ICE certification | | | 50 days | 0% | Wed 2/6/21 | Wed 21/7/21 | | NA | Thu 27/10/22 | | 512 days 0.3 days | 347,345FF | | | | | | | | | | | | |
| | (Final) | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | | 0 days | 75 days | 0% | Thu 22/7/21 | Mon 4/10/21 | | NA | Fri 16/12/22 | Tue 28/2/23 | 512 days 0 days | 348 | | | | | | | | | | | | |
| 50 | Road Lighting of Road D3 (E&M) | | s 129.19 days | | 0% | Mon 6/1/20 | Sun 18/4/21 | Mon 6/1/20 | | Mon 6/1/20 | Sun 1/8/21 | 105 days | | | | | | | | | | | | | |
| 51 | Prepare AIP (E&M works) Submission (Draft) | | 30 days | 0 days | 100% | Mon 6/1/20 | Tue 4/2/20 | | Tue 4/2/20 | Mon 6/1/20 | Tue 4/2/20 | 0 days 2 days | | | | | | | | | | | | | |
| 352 | Submit & endorse by Statutory Authorities/Gov. Dept and PM | | s 108 days | 82 days | 57% | Wed 5/2/20 | | Wed 5/2/20 | | Wed 5/2/20 | Wed 25/11/20 | | 351 | | | | | | | | | | | | |
| 353 | Prepare AIP (E&M works) and ICE certification (Final) | 32 days | 0 days | 32 days | 0% | Thu 13/8/20 | Sun 13/9/20 | | NA | Thu 26/11/20 | Sun 27/12/20 | 105 days 2 days | 352 | | | | | | | | | | | | |
| 354 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 0 days | 60 days | 0% | Mon 14/9/20 | Thu 12/11/20 | NA | NA | Mon 28/12/20 | Thu 25/2/21 | 105 days 2 days | 353 | | | | | | | | | | | | |
| itle· Rev 1 | Prog with Progress | Summary | | | Inactive M | ilestone 🔷 | | Duration-on | ly | | Start-only | Е | External Miles | tone | ♦ | | 1 III | Critical Sp | olit | | | | | | _ |
| | ay-20 Split | Project Sur | mmary | | Inactive Su | immary | | Manual Sun | nmary Rollup | | Finish-only | 3 | Deadline | | 4 | | | Progress | | _ | | | - | | |

| | | | | | | | | tract No. ED, | | | | | | | | | | | | | | |
|---------------------------|---|-------------|--------------------|-----------------------|------------------------|--------------------|--------------|---------------|--------------|--------------|--------------|--------------------|---------------|---|---------|---------|----------------|---------------|----------|------------------|--------|------|
| Task | x Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | h Late Start | Late Finish | Total TRA Slack | Predecessors | 2020 Q2 | Q3 Q4 | Q1 Q | 2021 2 Q3 | Q4 C | |)22 Q3 Q4 | 4 Q1 Q | 2023 |
| 355 | Prepare DDA (E&M works) and ICE certification (Draft) | 32 days | | 32 days | 0% | Mon 12/10/20 | Thu 12/11/20 | NA | NA | Mon 25/1/21 | Thu 25/2/21 | 105 days 2 days | 354FF | | | | | | | | | |
| 356 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 77 days | 0 days | 77 days | 0% | Fri 13/11/20 | Thu 28/1/21 | NA | NA | Fri 26/2/21 | Thu 13/5/21 | 105 days 2 days | 355 | | | | | | | | | |
| 357 | Prepare DDA (E&M works) and ICE certification (Final) | 3 days | 0 days | 3 days | 0% | Fri 29/1/21 | Sun 31/1/21 | NA | NA | Fri 14/5/21 | Sun 16/5/21 | 105 days 2 days | 356 | | | | | | | | | |
| 358 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 77 days | 0 days | 77 days | 0% | Mon 1/2/21 | Sun 18/4/21 | NA | NA | Mon 17/5/21 | Sun 1/8/21 | 105 days 2 days | 357 | | | | | Ш. | | | | |
| 359 | Road L12d Works (E&M Works) | 329 days | 0 days | 329 days | 0% | Mon 5/10/20 | Sun 29/8/21 | NA | NA | Mon 1/2/21 | Sun 26/12/21 | 119 days | | | | | | | | | | |
| 360 | Prepare AIP (E&M works) and ICE certification (Draft) | 32 days | 0 days | 32 days | 0% | Mon 5/10/20 | Thu 5/11/20 | NA | NA | Mon 1/2/21 | Thu 4/3/21 | 119 days 2 days | | | | | | | | | | |
| 361 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | 0 days | 62 days | 0% | Fri 6/11/20 | Wed 6/1/21 | NA | NA | Fri 5/3/21 | Wed 5/5/21 | 119 days 2 days | 360 | | | | | | | | | |
| 362 | Prepare AIP (E&M works) and ICE certification (Final) | 32 days | | 32 days | 0% | Thu 7/1/21 | Sun 7/2/21 | NA | NA | Thu 6/5/21 | Sun 6/6/21 | 119 days 2 days | | | | | | | | | | |
| 363 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | | 62 days | 0% | Mon 8/2/21 | Sat 10/4/21 | | NA | Mon 7/6/21 | Sat 7/8/21 | 119 days 2 days | | | | | | | | | | |
| 364 | Prepare DDA (E&M works) and ICE certification (Draft) | 32 days | | 32 days | 0% | Wed 10/3/21 | | NA | NA | Wed 7/7/21 | Sat 7/8/21 | 119 days 2 days | 363FF | | | | | | | | | |
| 365 | | | | | | | | | | | | | | | | | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | | 62 days | 0% | Sun 11/4/21 | | NA | NA | Sun 8/8/21 | Fri 8/10/21 | 119 days 2 days | | | | | | | | | | |
| 366 | Prepare DDA (E&M works) and ICE certification (Final) | 17 days | | 17 days | 0% | Sat 12/6/21 | Mon 28/6/21 | | NA | Sat 9/10/21 | Mon 25/10/21 | | | | | | | | | | | |
| 367 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | | 62 days | 0% | Tue 29/6/21 | Sun 29/8/21 | | NA | Tue 26/10/21 | Sun 26/12/21 | 119 days 2 days | 366 | | | | | | | ↑ | | |
| 368 | Roadworks other than at-grade Road D3 and Road L12d (Civil Works) | 609 days | 238.54 days | 370.46 days | 0% | Mon 2/9/19 | Sun 2/5/21 | Mon 2/9/19 | NA | Mon 2/9/19 | Sun 23/5/21 | 21 days | | | | | | | | | | |
| 369 | AIP for Roadworks - Roadworks other than at-grade Road D3 and Road L12d (Draft) | 36 days | 36 days | 0 days | 100% | Mon 2/9/19 | Mon 7/10/19 | Mon 2/9/19 | Mon 7/10/19 | 9 Mon 2/9/19 | Mon 7/10/19 | 0 days 0.5 days | S | | | | | | | | | |
| 370 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 288 days | 228 days | 60 days | 79% | Tue 8/10/19 | Tue 21/7/20 | Tue 8/10/19 | NA | Tue 8/10/19 | Tue 11/8/20 | 21 days 0.5 days | s 369 | | | | | | | | | |
| 371 | AIP for Roadworks - Roadworks other than at-grade Road D3 and Road L12d (Final) | 75 days | 0 days | 75 days | 0% | Wed 22/7/20 | Sun 4/10/20 | NA | NA | Wed 12/8/20 | Sun 25/10/20 | 21 days 0.5 days | 370,44FF+12 | | | | | | | | | |
| 372 | DDA for Roadworks - Roadworks other than at-grade Road D3 and Road L12d | 95 days | 0 days | 95 days | 0% | Sat 1/8/20 | Tue 3/11/20 | NA | NA | Sat 22/8/20 | Tue 24/11/20 | 21 days 1 day | 371FF+30 day | ys | | _ | | | | | | |
| 373 | (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Wed 4/11/20 | Sun 17/1/21 | NA | NA | Wed 25/11/20 | Sun 7/2/21 | 21 days 0.5 days | s 372 | | | | | | | | | |
| 374 | DDA for Roadworks - Roadworks other than at-grade Road D3 and Road L12d | 30 days | 0 days | 30 days | 0% | Mon 18/1/21 | Tue 16/2/21 | NA | NA | Mon 8/2/21 | Tue 9/3/21 | 21 days 0.5 days | s 371,372,373 | | | | | | | | | |
| 375 | (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Wed 17/2/21 | Sun 2/5/21 | NA | NA | Wed 10/3/21 | Sun 23/5/21 | 21 days 0.5 days | s 374 | | | | | | | | | |
| 376 | Roadworks - EVA to Sewerage and Saltwater Pumping Station (Civil Works) | 413 days | 68.26 days | 344.74 days | 0% | Wed 4/3/20 | Tue 20/4/21 | Wed 4/3/20 | NA | Wed 4/3/20 | Fri 17/2/23 | 668 days | | | | | | | | | | |
| 377 | AIP for Roadworks - EVA to Sewerage and Saltwater Pumping Station (Draft) | | 46 days | 0 days | 100% | Wed 4/3/20 | Sat 18/4/20 | Wed 4/3/20 | Sat 18/4/20 | | Sat 18/4/20 | 0 days 0.5 days | \$ | | | | | | | | | |
| 378 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | | - | | 40% | Sat 18/4/20 | | | NA | Sat 18/4/20 | Mon 23/5/22 | 684 days | 377 | | | | | | | | | |
| | | | 33 days | 49 days | | | | | | | | | | | | | | | | | | |
| 379 | AIP for Roadworks - EVA to Sewerage and Saltwater Pumping Station (Final) | 75 days | - | 75 days | 0% | Thu 9/7/20 | Mon 21/9/20 | | NA | Tue 24/5/22 | Sat 6/8/22 | 684 days 0.5 days | | | | | | | | | | |
| 380 | DDA for Roadworks - EVA to Sewerage and Saltwater Pumping Station (Draft) | 95 days | | 95 days | 0% | Mon 20/7/20 | Thu 22/10/20 | | NA | Thu 19/5/22 | Sun 21/8/22 | 668 days 1 day | 379FF+15 day | ys | | | | | | | | |
| 381 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | | 75 days | 0% | Fri 23/10/20 | Tue 5/1/21 | NA | NA | Mon 22/8/22 | Fri 4/11/22 | 668 days 0.5 days | | | | | | | | | | |
| 382 | DDA for Roadworks - EVA to Sewerage and Saltwater Pumping Station (Final) | 30 days | 0 days | 30 days | 0% | Wed 6/1/21 | Thu 4/2/21 | NA | NA | Sat 5/11/22 | Sun 4/12/22 | 668 days 0.5 days | s 379,380,381 | | | | | | | | | |
| 383 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Fri 5/2/21 | Tue 20/4/21 | NA | NA | Mon 5/12/22 | Fri 17/2/23 | 668 days 0.5 days | s 382 | | | | | | | \uparrow | | |
| 384 | Road Lighting of Road other than Road D3 (E&M) | 356 days | 0 days | 356 days | 0% | Fri 29/5/20 | Wed 19/5/21 | NA | NA | Tue 2/6/20 | Sun 23/5/21 | 4 days | | | | | | | | | | |
| 385 | Prepare AIP (E&M works) and ICE certification (Draft) | 38 days | 0 days | 38 days | 0% | Fri 29/5/20 | Sun 5/7/20 | NA | NA | Tue 2/6/20 | Thu 9/7/20 | 4 days 2 days | | | | | | | | | | |
| 386 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 77 days | 0 days | 77 days | 0% | Mon 6/7/20 | Sun 20/9/20 | NA | NA | Fri 10/7/20 | Thu 24/9/20 | 4 days 2 days | 385 | | | | | | | | | |
| 387 | Prepare AIP (E&M works) and ICE certification (Final) | 32 days | 0 days | 32 days | 0% | Mon 21/9/20 | Thu 22/10/20 | NA | NA | Fri 25/9/20 | Mon 26/10/20 | 4 days 2 days | 386 | | | | | | | | | |
| 388 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | 0 days | 62 days | 0% | Fri 23/10/20 | Wed 23/12/20 |) NA | NA | Tue 27/10/20 | Sun 27/12/20 | 4 days 2 days | 387 | $-\parallel\parallel\parallel$ | | H | | | | | | |
| 389 | Prepare DDA (E&M works) and ICE certification (Draft) | 32 days | 0 days | 32 days | 0% | Sun 22/11/20 | Wed 23/12/20 |) NA | NA | Thu 26/11/20 | Sun 27/12/20 | 4 days 2 days | 388FF | $-\parallel\parallel\parallel$ | | | | | | | | |
| 390 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | | 62 days | 0% | Thu 24/12/20 | Tue 23/2/21 | NA | NA | Mon 28/12/20 | Sat 27/2/21 | 4 days 2 days | 389 | $-\parallel\parallel\parallel$ | | | | | | | | |
| 391 | Prepare DDA (E&M works) and ICE certification (Final) | 23 days | | 23 days | 0% | Wed 24/2/21 | Thu 18/3/21 | | NA | Sun 28/2/21 | Mon 22/3/21 | 4 days 2 days | | $-\parallel\parallel\parallel$ | | | | | | | | |
| 392 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | | 62 days | 0% | Fri 19/3/21 | Wed 19/5/21 | | NA | Tue 23/3/21 | Sun 23/5/21 | 4 days 2 days | | $-\parallel\parallel\parallel$ | | | | | | | | |
| | | 322 days | | 322 days | 0% | Thu 2/7/20 | Wed 19/5/21 | | | Mon 6/7/20 | Sun 23/5/21 | | 5/1 | | | | | | | | | |
| 393 | Roadworks other than at-grade Road D3 and Road L12d (E&M Works) | | | | | | | | NA | | | 4 days | | | | | | | | | | |
| 394 | Prepare AIP (E&M works) and ICE certification (Draft) | 31 days | | 31 days | 0% | Thu 2/7/20 | | NA | NA | Mon 6/7/20 | Wed 5/8/20 | 4 days 1 day | 20: | | | | | | | | | |
| 395 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days | | 61 days | 0% | Sun 2/8/20 | Thu 1/10/20 | | NA | Thu 6/8/20 | Mon 5/10/20 | 4 days 1 day | 394 | | | | | | | | | |
| 396 | Prepare AIP (E&M works) and ICE certification (Final) | 31 days | 0 days | 31 days | 0% | Fri 2/10/20 | Sun 1/11/20 | NA | NA | Tue 6/10/20 | Thu 5/11/20 | 4 days 1 day | 395 | | | | | | | | | |
| 397 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days | 0 days | 61 days | 0% | Mon 2/11/20 | Fri 1/1/21 | NA | NA | Fri 6/11/20 | Tue 5/1/21 | 4 days 1 day | 396 | | | | | | | | | |
| 398 | Prepare DDA (E&M works) and ICE certification (Draft) | 31 days | 0 days | 31 days | 0% | Wed 2/12/20 | Fri 1/1/21 | NA | NA | Sun 6/12/20 | Tue 5/1/21 | 4 days 1 day | 397FF | | | | | | | | | |
| 399 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days | 0 days | 61 days | 0% | Sat 2/1/21 | Wed 3/3/21 | NA | NA | Wed 6/1/21 | Sun 7/3/21 | 4 days 1 day | 398 | | | | | | | | | |
| :41- D - | 1 Days with Days and Task | Summary | 1 | | Inactive Mil | lestone \Diamond | 1 | Duration-or | ıly | | Start-only | E | F | External Milesto | ne < | <u></u> | C | ritical Split | <u> </u> | | | Ш |
| itle: Rev.1 as of 22-N | 1 Prog with Progress | Project Sun | nmary | | Inactive Sur | | | | mmary Rollup | | Finish-only | 3 | | Deadline | 10 4 | | | rogress | | | | |
| | Milestone • | Inactive Ta | sk | | Manual Tas | k 📗 | | Manual Sur | nmary | | External Tas | sks | | Critical | | | N | Ianual Prog | ress | | | |

| | | | | | | | Coni | tract No. ED, | /2018/01 K | ID Project | | | | | | | | | | | |
|------------|---|------------|--------------------|-----------------------|------------------------|-------------------------|--------------|---------------|------------------------|---------------|--------------|--------------------|--------------|----------------------------------|--------------|-----------|---------------|-------|------------------|-------|-----------|
| Task | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | h Late Start | Late Finish | Total TRA Slack | Predecessors | | 03 04 | 01 02 | 21 O3 O4 | | 2022 Q3 Q | 04 01 | 20: Q2 |
| 0 | Prepare DDA (E&M works) and ICE certification (Final) | 16 days | | 16 days | 0% | Thu 4/3/21 | Fri 19/3/21 | NA | NA | Mon 8/3/21 | Tue 23/3/21 | 4 days 1 day | 399 | | | | | VI Q2 | | 24 Q1 | |
| 1 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days | 0 days | 61 days | 0% | Sat 20/3/21 | Wed 19/5/21 | NA | NA | Wed 24/3/21 | Sun 23/5/21 | 4 days 1 day | 400 | | | * | | | | | |
|)2 | DCS Seawater & Intake Box Culverts (approx 88m) (Section 2) | 479 days | 304.41 days | 174.59 days | 0% | Tue 13/8/19 | Thu 3/12/20 | Tue 13/8/19 | NA | Tue 13/8/19 | Tue 3/8/21 | 243 days | | | | | | | | | |
| 13 | Prepare AIP Subm with ICE certification (Draft) | 165 days | 165 days | 0 days | 100% | Tue 13/8/19 | Fri 24/1/20 | Tue 13/8/19 | Fri 24/1/20 | Tue 13/8/19 | Fri 24/1/20 | 0 days 3 days | | - | | | | | | | |
| 14 | Submit & endorse by PM | 85 days | 85 days | 0 days | 100% | Thu 23/1/20 | Thu 16/4/20 | Thu 23/1/20 | Thu 16/4/20 | Thu 23/1/20 | Thu 16/4/20 | 0 days 1 day | 403 | | | | | | | | |
| 5 | Submit & endorse by Statutory Authorities/Gov. Dept | 90 days | 90 days | 0 days | 100% | Fri 24/1/20 | Mon 27/4/20 | Fri 24/1/20 | Mon 27/4/20 | Fri 24/1/20 | Mon 27/4/20 | 0 days 1 day | 403 | | | | | | | | |
| 16 | Prepare AIP and ICE certification (Final) | 0 days | 0 days | 0 days | 100% | Thu 23/4/20 | Mon 27/4/20 | Thu 23/4/20 | Mon 27/4/20 |) Thu 23/4/20 | Mon 27/4/20 | 0 days 1 days | 403,405,404 | ♦ 27/4 | | | | | | | |
| 7 | Prepare DDA and ICE certification | 80 days | | 80 days | 0% | Sat 23/5/20 | Mon 10/8/20 | | NA | Thu 21/1/21 | Sat 10/4/21 | 243 days 5 days | | 7+11 | | | | | | | |
| 3 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | 0% | Tue 11/8/20 | Tue 29/9/20 | | NA | Sun 11/4/21 | Sun 30/5/21 | 243 days 3 days | | | | | | | | | |
|) | Prepare DDA for and ICE certification (Final) | 15 days | | 15 days | 0% | Wed 30/9/20 | Wed 14/10/20 | | NA | Mon 31/5/21 | Mon 14/6/21 | 243 days 1 day | 408 | | Ţ | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 0 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | 0% | Thu 15/10/20 | Thu 3/12/20 | | NA | Tue 15/6/21 | Tue 3/8/21 | 243 days 2 days | 409 | | | | | | | | |
| l | Seawater & Intake Box Culverts Diversion | 248 days | 49.98 days | 198.02 days | 0% | Wed 1/4/20 | Fri 4/12/20 | Wed 1/4/20 | | Wed 1/4/20 | Wed 6/10/21 | 306 days | | | | | | | | | |
| 2 | Prepare AIP Subm (Draft) | 32 days | 32 days | 0 days | 100% | Wed 1/4/20 | Sat 2/5/20 | Wed 1/4/20 | Sat 2/5/20 | Wed 1/4/20 | Sat 2/5/20 | 0 days 3 days | | | | | | | | | |
| 13 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 51 days | 21 days | 30 days | 41% | Sat 2/5/20 | Mon 22/6/20 | Sat 2/5/20 | NA | Sat 2/5/20 | Tue 17/11/20 | 148 days 3 days | 412 | | h | | | | | | |
| 4 | Prepare AIP and ICE certification (Final) | 15 days | 0 days | 15 days | 0% | Tue 23/6/20 | Tue 7/7/20 | NA | NA | Wed 18/11/20 | Wed 2/12/20 | 148 days 1 days | 412,413 | | | | | | | | |
| | Prepare DDA and ICE certification | 50 days | 0 days | 50 days | 0% | Tue 23/6/20 | Tue 11/8/20 | NA | NA | Sun 25/4/21 | Sun 13/6/21 | 306 days 5 days | 412SS,413F | 7+5(| | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | 0 days | 50 days | 0% | Wed 12/8/20 | Wed 30/9/20 | NA | NA | Mon 14/6/21 | Mon 2/8/21 | 306 days 3 days | 415 | | | | | | | | |
| , | Prepare DDA for and ICE certification (Final) | 15 days | 0 days | 15 days | 0% | Thu 1/10/20 | Thu 15/10/20 | NA | NA | Tue 3/8/21 | Tue 17/8/21 | 306 days 1 day | 416 | | | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | 0 days | 50 days | 0% | Fri 16/10/20 | Fri 4/12/20 | NA | NA | Wed 18/8/21 | Wed 6/10/21 | 306 days 2 days | 417 | | | | | | | | |
| | Rising Main (Sewerage Works) | 402 days | 134 days | 268 days | 0% | Thu 2/1/20 | Sat 6/2/21 | Thu 2/1/20 | NA | Thu 2/1/20 | Sun 7/3/21 | 29 days | | | | n | | | | | |
| | Prepare AIP (Draft) | 35 days | 35 days | 0 days | 100% | Thu 2/1/20 | Wed 5/2/20 | Thu 2/1/20 | Wed 5/2/20 | Thu 2/1/20 | Wed 5/2/20 | 0 days 3 days | 4 | - | | | | | | | |
| | Submit & endorse by PM | | 19 days | 0 days | 100% | Thu 6/2/20 | Mon 24/2/20 | Thu 6/2/20 | Mon 24/2/20 |) Thu 6/2/20 | Mon 24/2/20 | 0 days 1 day | | | | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | | 56 days | 0 days | 100% | Thu 27/2/20 | Fri 22/5/20 | Thu 27/2/20 | | | Fri 22/5/20 | 0 days 2 days | 420 | | | | | | | | |
| | Prepare AIP and ICE certification (Final) | 75 days | | 75 days | 0% | Thu 2/7/20 | Mon 14/9/20 | | NA NA | Fri 31/7/20 | Tue 13/10/20 | 29 days 0 days | 420,422,421 | _['] # | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | Prepare DDA and ICE certification (Draft) | 30 days | | 30 days | 0% | Tue 15/9/20 | Wed 14/10/20 | | NA | Wed 14/10/20 | Thu 12/11/20 | | 420SS,423 | | | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | 0% | Thu 15/10/20 | Thu 3/12/20 | | NA | Fri 13/11/20 | Fri 1/1/21 | 29 days 3 days | 424,420 | | | | | | | | |
| | Prepare DDA and ICE certification (Final) | 15 days | 0 days | 15 days | 0% | Fri 4/12/20 | Fri 18/12/20 | NA | NA | Sat 2/1/21 | Sat 16/1/21 | 29 days 0 days | 425 | | | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | 0 days | 50 days | 0% | Sat 19/12/20 | Sat 6/2/21 | NA | NA | Sun 17/1/21 | Sun 7/3/21 | 29 days 3 days | 426,423 | | | | | | | | |
| | Stormwater, Sewage, Salt Water and Fresh Water Works for Underpass and Depressed Road | 641 days | 151.9 days | 489.1 days | 0% | Fri 13/9/19 | Mon 14/6/21 | Fri 13/9/19 | NA | Fri 13/9/19 | Mon 28/6/21 | 14 days | | | | | | | | | |
| | Stormwater Drainage AIP for Underpass and Depressed Roads and ICE certification (Draft) | 72 days | 72 days | 0 days | 100% | Mon 2/12/19 | Tue 11/2/20 | Mon 2/12/19 | Tue 11/2/20 | Mon 2/12/19 | Tue 11/2/20 | 0 days 1 day | | | | | | | | | |
| | Submit & endorse by PM | 51 days | 51 days | 0 days | 30% | Wed 12/2/20 | Thu 2/4/20 | Wed 12/2/20 | Thu 2/4/20 | Wed 12/2/20 | Thu 2/4/20 | 0 days 0.5 day | rs 429 | | | | | | | | |
| | Submit & endorse by Statutory Authorities/Gov. Dept | 139 days | 64 days | 75 days | 46% | Fri 20/3/20 | Wed 5/8/20 | Fri 20/3/20 | NA | Fri 20/3/20 | Fri 30/10/20 | 86 days | 429 | | , | | | | | | |
| 2 | Prepare AIP and ICE certification (Final) | 150 days | 50 days | 100 days | 33% | Fri 3/4/20 | Sun 30/8/20 | Fri 3/4/20 | NA | Fri 3/4/20 | Sat 14/11/20 | 76 days | 431FF+15 da | iys | | | | | | | |
| | Prepare DDA and ICE certification (Draft) | 150 days | 0 days | 150 days | 0% | Sat 23/5/20 | Mon 19/10/20 |) NA | NA | Sat 18/7/20 | Mon 14/12/20 | 56 days 1 day | 429,432FF+ | 80 d | | | | | | | |
| 1 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 90 days | 0 days | 90 days | 0% | Tue 20/10/20 | Sun 17/1/21 | NA | NA | Tue 15/12/20 | Sun 14/3/21 | 56 days 0.5 day | rs 433 | $-\parallel \parallel \parallel$ | | | | | | | |
| | Prepare DDA and ICE certification (Final) | 31 days | 0 days | 31 days | 0% | Mon 18/1/21 | Wed 17/2/21 | NA | NA | Mon 15/3/21 | Wed 14/4/21 | 56 days 1 day | 434 | $-\parallel\parallel\parallel$ | | | | | | | |
| 5 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Thu 18/2/21 | Mon 3/5/21 | NA | NA | Thu 15/4/21 | Mon 28/6/21 | 56 days 5 days | 435 | $-\parallel \parallel \parallel$ | | | | | | | |
| 7 | | | 51 days | 0 days | 100% | Tue 8/10/19 | Wed 27/11/19 | | Wed | Tue 8/10/19 | | 0 days 1 day | | _ | | | | | | | |
| | certification (Draft) Submit & endorse by PM | | 26 days | 0 days | 100% | Thu 28/11/19 | | | 27/11/19 Mon 23/12/ | Thu 28/11/19 | | 0 days 0.5 day | s 437 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
|) | Submit & endorse by Statutory Authorities/Gov. Dept | | 14 days | 0 days | 100% | Wed 8/4/20 | Fri 24/4/20 | Wed 8/4/20 | | Wed 8/4/20 | Fri 24/4/20 | 0 days 3 days | | | | | | | | | |
| | Prepare AIP for Underpass, Depressed Road and ICE certification (Final) | | 22 days | 0 days | 100% | Sat 25/4/20 | Sat 16/5/20 | Sat 25/4/20 | Sat 16/5/20 | | Sat 16/5/20 | 0 days 0 days | | | | | | | | | |
| | Prepare DDA for Underpass, Depressed Road and ICE certification (Draft) | 90 days | | 90 days | 0% | Sun 17/5/20 | Fri 14/8/20 | | NA | Fri 2/10/20 | | 138 days 1 day | 440 | | | | | | | | |
| 2 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Sat 15/8/20 | Wed 28/10/20 |) NA | NA | Thu 31/12/20 | Mon 15/3/21 | 138 days 0.5 day | | | | | | | | | |
| 43 | Prepare DDA for Underpass, Depressed Road and ICE certification (Final) | 30 days | 0 days | 30 days | 0% | Thu 29/10/20 | Fri 27/11/20 | NA | NA | Tue 16/3/21 | Wed 14/4/21 | 138 days 0 days | 442 | | | | | | | | |
| 14 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Sat 28/11/20 | Wed 10/2/21 | NA | NA | Thu 15/4/21 | Mon 28/6/21 | 138 days 0 days | 443 | | | | | | | | |
| lo. Port 1 | Prograith Progress Task | ummary | 1 | <u> </u> | Inactive M | ilestone \diamondsuit | 1 | Duration-or | nly | | Start-only | С | <u> </u> | External Milesto | ne 🔷 | <u></u> | Critical Spli | lit | | | |
| e, kev. l | Prog with Progress | roject Sun | nmary | | Inactive Su | | | | mmary Rollup | | Finish-only | 3 | | Deadline | 1 | | Progress | | | | • |

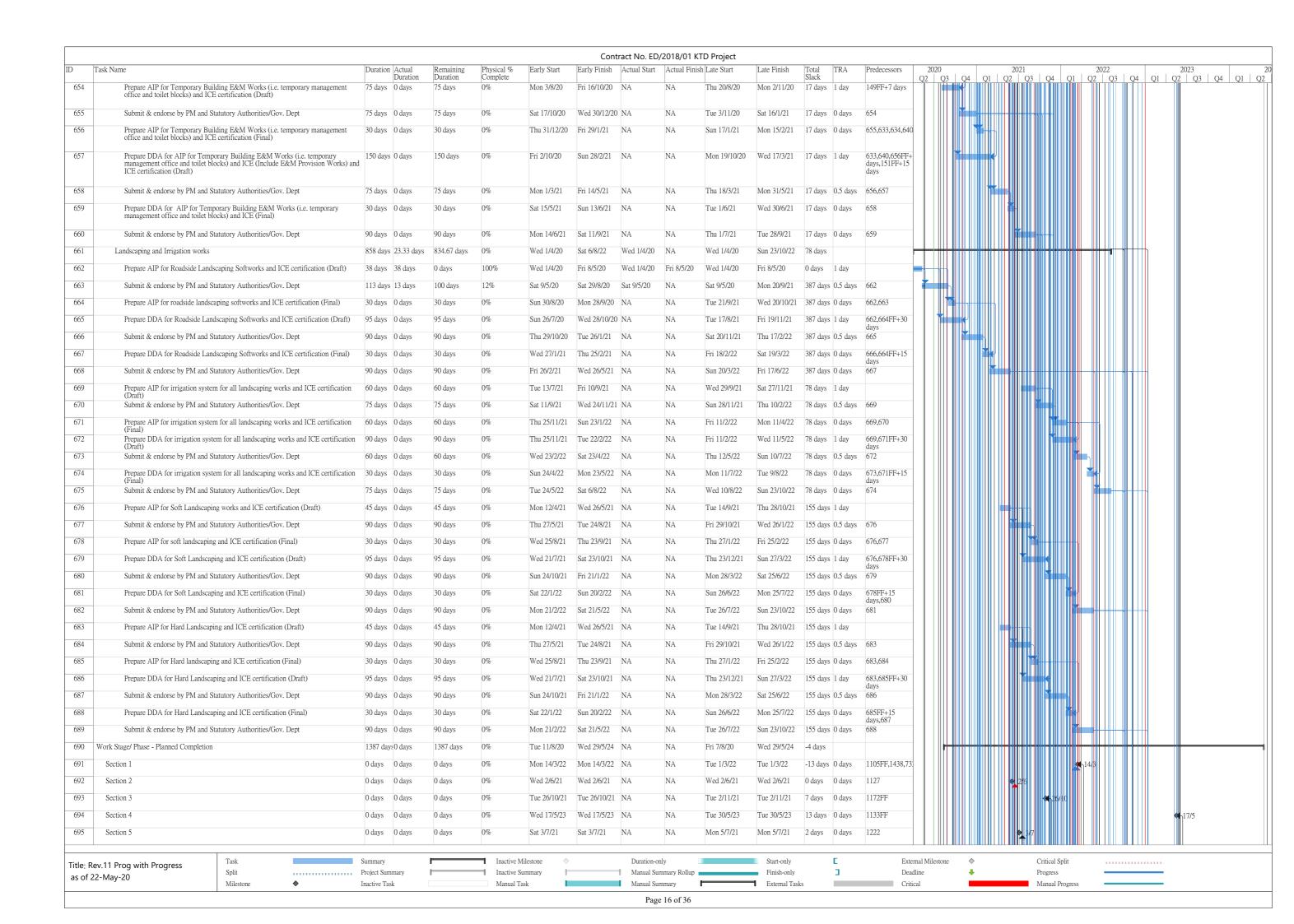




| | | | | | | | Con | tract No. ED/ | /2018/01 KT | D Project | | | | | | | | | | | | | |
|-----------|--|-------------|--------------------|-----------------------|------------------------|--------------|---------------|---------------|---------------|--------------|------------------------|--------------------|----------------------|----------------------------------|---------------------|----------------------|-----------------|----------------|---------|------|----------|---------|----|
| Task | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finisl | Late Start | Late Finish | Total TRA Slack | Predecessors | | | 01 | 2021 O2 O3 | 04 | 01 02 | 022 | 04 01 | 2023 | |
| 535 | Prepare AIP for Salt Water Pumping Station E&M works and ICE certification | 77 days | | 77 days | 0% | Mon 17/8/20 | Sun 1/11/20 | NA | NA | Sun 13/9/20 | Sat 28/11/20 | 27 days 2 days | 534 | Q2 | ψυ Q ₄ | · QI | Q2 Q3 | Q4 (| Q1 Q2 | Q3 0 | V4 Q1 | Q2 Q3 | _Q |
| 36 | (Final) Prepare DDA for Salt Water Pumping Station E&M works and ICE certification | 120 days | 0 days | 120 days | 0% | Tue 4/8/20 | Tue 1/12/20 | NA | NA | Mon 31/8/20 | Mon 28/12/20 | 27 days 1 day | 534FF,535FF | +3(| | | | | | | | | |
| 37 | (Draft) Submit to WSD for Plumbing and Irrigation Works for approval | 0 days | 0 days | 0 days | 0% | Tue 1/12/20 | Tue 1/12/20 | NA | NA | Tue 29/12/20 | Tue 29/12/20 | 27 days 1 day | days,516 536 | | , | 1/12 | | | | | | | |
| 38 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 91 days | 0 days | 91 days | 0% | Wed 2/12/20 | Tue 2/3/21 | NA | NA | Tue 29/12/20 | Mon 29/3/21 | 27 days 1 day | 536,537 | | | 4 | | | | | | | |
| 39 | Prepare DDA for Salt Water Pumping Station and ICE certification (Final) | 31 days | | 31 days | 0% | Wed 3/3/21 | Fri 2/4/21 | NA | NA | Tue 30/3/21 | Thu 29/4/21 | 27 days 1 day | 535FF+6 | | | | | | | | | | |
| 40 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 91 days | - | 91 days | 0% | Sat 3/4/21 | Fri 2/7/21 | NA | NA | Fri 30/4/21 | Thu 29/7/21 | 27 days 1 day | days,538 539 | | | | | | | | | | |
| | | | | | | | | | | | | | 339 | | | | | | | | | | |
| 541 | AIP for Remaining Works of Salt Water & Sewerage Pumping and ICE certification (Draft) | | | 0 days | 0% | Mon 17/2/20 | Sat 28/3/20 | | | Mon 17/2/20 | Sat 28/3/20 | 0 days 1 day | 4 | | | | | | | | | | |
| 542 | Submit & endorse by PM | 18 days | 18 days | 0 days | 100% | Mon 30/3/20 | Thu 16/4/20 | Mon 30/3/20 | Thu 16/4/20 | Mon 30/3/20 | Thu 16/4/20 | 0 days | | | | | | | | | | | |
| 13 | Submit & endorse by Statutory Authorities/Gov. Dept | 90 days | 0 days | 90 days | 0% | Mon 3/8/20 | Sat 31/10/20 | NA | NA | Sun 14/3/21 | Fri 11/6/21 | 223 days 0.5 day | s 541,542 | | | | | | | | | | |
| 14 | AIP for Remaining Works of Salt Water Pumping & Sewage and ICE certification (Final) | 90 days | 0 days | 90 days | 0% | Sun 1/11/20 | Fri 29/1/21 | NA | NA | Sat 12/6/21 | Thu 9/9/21 | 223 days 3 days | 543 | | | | | | | | | | |
| 45 | DDA for Remaining Works of Salt Water & Sewage Pumping and ICE certification (Draft) | n 90 days | 0 days | 90 days | 0% | Sun 6/12/20 | Fri 5/3/21 | NA | NA | Sat 17/7/21 | Thu 14/10/21 | 223 days 1 day | 541,544FF+3 days | 5 | | | | | | | | | |
| 16 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 93 days | 0 days | 93 days | 0% | Sat 6/3/21 | Sun 6/6/21 | NA | NA | Fri 15/10/21 | Sat 15/1/22 | 223 days 3 days | | | | | | | | | | | |
| 17 | DDA for Remaining Works of Salt Water & Sewage Pumping and ICE certification | on 35 days | 0 days | 35 days | 0% | Mon 7/6/21 | Sun 11/7/21 | NA | NA | Sun 16/1/22 | Sat 19/2/22 | 223 days 3 days | 546,544FF+1 | 2 | | | Tr- | | | | | | |
| 48 | (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Mon 12/7/21 | Fri 24/9/21 | NA | NA | Sun 20/2/22 | Thu 5/5/22 | 223 days 2 days | days 547 | | | | | | | | | | |
| 49 | AIP for Architectural works of Salt Water & Sewage Pumping and ICE certification | on 45 days | 0 days | 45 days | 0% | Mon 5/4/21 | Wed 19/5/21 | NA | NA | Mon 3/5/21 | Wed 16/6/21 | 28 days 1 day | 4 | $-\parallel \parallel \parallel$ | | | , | | | | | | |
| 50 | (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | | 60 days | 0% | Thu 20/5/21 | Sun 18/7/21 | | NA | Thu 17/6/21 | Sun 15/8/21 | 28 days 0.5 day | rs 549 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | AIP for Architectural works of Salt Water Pumping & Sewage and ICE certification (Final) | | | 62 days | 0% | Mon 19/7/21 | Sat 18/9/21 | | NA | Mon 16/8/21 | Sat 16/10/21 | 28 days 2 days | | | | | | | | | | | |
| 52 | DDA for Architectural works of Salt Water & Sewage Pumping and ICE certification (Draft) | 60 days | | 60 days | 0% | Fri 20/8/21 | Mon 18/10/21 | | NA | Fri 17/9/21 | | 28 days 1 day | 549,551FF+3 days | 0 | | | | | | | | | |
| 53 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 0 days | 60 days | 0% | Tue 19/10/21 | Fri 17/12/21 | NA | NA | Tue 16/11/21 | Fri 14/1/22 | 28 days 0.5 day | s 552 | | | | | | | | | | |
| 54 | DDA for Architectural works of Salt Water & Sewage Pumping and ICE certification (Final) | 36 days | 0 days | 36 days | 0% | Sat 18/12/21 | Sat 22/1/22 | NA | NA | Sat 15/1/22 | Sat 19/2/22 | 28 days 2 days | 551FF+12 days,553 | | | | | | | | | | |
| 55 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | 0 days | 62 days | 0% | Sun 23/1/22 | Fri 25/3/22 | NA | NA | Sun 20/2/22 | Fri 22/4/22 | 28 days 2 days | 554 | | | | | | | ++ | | | |
| 56 | AIP for Landscaping works of Salt Water & Sewage Pumping and ICE certificatio (Draft) | n 45 days | 0 days | 45 days | 0% | Mon 5/4/21 | Wed 19/5/21 | NA | NA | Sun 2/5/21 | Tue 15/6/21 | 27 days 1 day | 4 | | | | | | | | | | |
| 57 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days | 0 days | 61 days | 0% | Thu 20/5/21 | Mon 19/7/21 | NA | NA | Wed 16/6/21 | Sun 15/8/21 | 27 days 0.5 day | s 556 | | | | | | | | | | |
| 58 | AIP for Landscaping works of Salt Water Pumping & Sewage and ICE certification | n 62 days | 0 days | 62 days | 0% | Tue 20/7/21 | Sun 19/9/21 | NA | NA | Mon 16/8/21 | Sat 16/10/21 | 27 days 2 days | 556,557 | | | | | | | | | | |
| 59 | (Final) DDA for Landscaping works of Salt Water & Sewage Pumping and ICE | 62 days | 0 days | 62 days | 0% | Thu 19/8/21 | Tue 19/10/21 | NA | NA | Wed 15/9/21 | Mon 15/11/21 | 27 days 2 days | 556,558FF+3 | | | | Ш | | | | | | |
| 60 | certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days | - | 61 days | 0% | Wed 20/10/21 | | | NA | Tue 16/11/21 | Sat 15/1/22 | 27 days 0.5 day | days | | | | | | | | | | |
| 61 | DDA for Landscaping works of Salt Water & Sewage Pumping and ICE | 35 days | | 35 days | 0% | | Sun 23/1/22 | | NA | Sun 16/1/22 | Sat 19/2/22 | 27 days 2 days | | | | | | | | | | | |
| | certification (Final) | | | | | | | | | | | | days,560 | | | | | | | | | | |
| 562 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 61 days | | 61 days | 0% | Mon 24/1/22 | | | NA | Sun 20/2/22 | Thu 21/4/22 | 27 days 2 days | 561 | | | | | | | | | | |
| 53 | AIP for Seawater Intake and Box Culvert Structures for Pumping Station (approx. 160m) (Section 6) Submission (Draft) | 58 days | 58 days | 0 days | 100% | Tue 10/12/19 | Wed 5/2/20 | Tue 10/12/19 | Wed 5/2/20 | Tue 10/12/19 | Wed 5/2/20 | 0 days 1 day | | | | | | | | | | | |
| 54 | Submit & endorse by PM | 25 days | 25 days | 0 days | 33% | Wed 5/2/20 | Thu 5/3/20 | Wed 5/2/20 | Thu 5/3/20 | Wed 5/2/20 | Thu 5/3/20 | 0 days 0.5 day | s 563 | | | | | | | | | | |
| 65 | Submit & endorse by Statutory Authorities/Gov. Dept | 50 days | 0 days | 50 days | 0% | Sat 23/5/20 | Sat 11/7/20 | NA | NA | Sun 28/3/21 | Sun 16/5/21 | 309 days 0.5 day | rs 563 | | | | | | | | | | |
| 56 | AIP for Seawater Intake and Box Culvert Structure (Final) | 21 days | 0 days | 21 days | 0% | Sun 12/7/20 | Sat 1/8/20 | NA | NA | Mon 17/5/21 | Sun 6/6/21 | 309 days 0.5 day | s 563,565,564 | | | | | | | | | | |
| 67 | DDA for Seawater Intake and Box Culvert Structure (Draft) | 15 days | | 15 days | 0% | Sat 25/7/20 | | NA | NA | Sun 30/5/21 | Sun 13/6/21 | 309 days 1 day | 563,565,564, | 566 | | | | | | | | | |
| 58 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | 0% | Sun 9/8/20 | Sun 27/9/20 | | NA | Mon 14/6/21 | Mon 2/8/21 | 309 days 0.5 day | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 59 | DDA for Seawater Intake and Box Culvert Structure (Final) | 15 days | | 15 days | 0% | Mon 28/9/20 | Mon 12/10/20 | | NA | Tue 3/8/21 | Tue 17/8/21 | 309 days 1 day | 567,568,566F | r+ | | | | | | | | | |
| 70 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | 0% | Tue 13/10/20 | Tue 1/12/20 | | NA | Wed 18/8/21 | Wed 6/10/21 | 309 days 0.5 day | s 569 | | | | | | | | | | |
| 71 | Elevated Landscape Deck Staircase & Associated Work | 714 days | 268.49 days | 445.51 days | 0% | Thu 30/5/19 | Wed 12/5/21 | Thu 30/5/19 | NA | Thu 30/5/19 | Mon 5/7/21 | 54 days | | | | | | | | | | | |
| 72 | Elevated Landscape Deck Superstructure AIP and ICE certification (Draft) | 96 days | 96 days | 0 days | 100% | Thu 30/5/19 | Mon 2/9/19 | Thu 30/5/19 | Mon 2/9/19 | Thu 30/5/19 | Mon 2/9/19 | 0 days 3 days | 4 | | | | | | | | | | |
| 73 | Submit & endorse by PM | 15 days | 15 days | 0 days | 100% | Tue 3/9/19 | Tue 17/9/19 | Tue 3/9/19 | Tue 17/9/19 | Tue 3/9/19 | Tue 17/9/19 | 0 days 1 days | 572 | | | | | | | | | | |
| 74 | Submit & endorse by Statutory Authorities/Gov. Dept | 162 days | s 162 days | 0 days | 0% | Tue 24/9/19 | Tue 3/3/20 | Tue 24/9/19 | Tue 3/3/20 | Tue 24/9/19 | Tue 3/3/20 | 0 days 0.5 day | rs 573 | | | | | | | | | | |
| 75 | Prepare AIP and ICE certification (Final) | 255 days | s 155 days | 100 days | 61% | Wed 20/11/19 | Fri 31/7/20 | Wed 20/11/19 |) NA | Wed 20/11/19 | Thu 26/11/20 | 118 days 0.5 day | s 44FF+12 day | s = | | | | | | | | | |
| 76 | Prepare DDA and ICE certification (Draft) | 75 days | | 75 days | 0% | Fri 12/6/20 | Sun 30/8/20 | | NA | Thu 8/10/20 | Sat 26/12/20 | 118 days 1 day | 574FF+30 da | | | | | | | | | | |
| 77 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | 0% | Mon 31/8/20 | Mon 19/10/20 | | NA | Sun 27/12/20 | Sun 14/2/21 | 118 days 0.5 day | | | | | | | | | | | |
| | | | - | | | | | | | | | | | | | | | | | | | | |
| 578 | Prepare DDA for and ICE certification (Final) | 22 days | o days | 22 days | 0% | Tue 20/10/20 | 1 ue 10/11/20 | NA | NA | Mon 15/2/21 | Mon 8/3/21 | 118 days 1 day | 577 | | | | | | | | | | |
| | Page with Page 1 | Summary | | | Inactive M | ilectore | | Duration-or | alv " | | Start-only | г | | External Miles | one | ♦ | | Critical Split | t | | | | |
| | Prog with Progress Split | Project Sun | nmary | | Inactive M Inactive St | | | | nmary Rollup | | Start-only Finish-only |] | | external Miles Deadline | OHE | ♣ | | Progress | ı | | | | |
| s of 22-M | ay-20 Milestone ◆ | Inactive Ta | | | Manual Ta | | | Manual Sur | | | External Tasl | | | Critical | | | | Manual Prog | oress | | | | |

| | | | | | | | Cont | ract No. ED/ | /2018/01 KT | D Project | | | | | | | | | | | | |
|----------------------------|--|--------------|--------------------|-----------------------|--------------------------|--------------|--------------|--------------|------------------|----------------|---------------|--------------------|----------------------|-------------|-----------|---------|----------------|---------|----------|-------|-------------------|----|
| Task | Name | Duration | Actual Duration | Remaining Duration | Physical % I Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total TRA Slack | Predecessors | 2020 | 04 01 | 2021 | 104 (| 01 01 | 2022 | 04 01 | 2023 Q2 Q3 | |
| 579 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | - | Wed 11/11/20 | Wed 30/12/20 | NA | NA | Tue 9/3/21 | Tue 27/4/21 | 118 days 1 day | 578 | Q2 Q3 | Q4 Q1 | Q2 Q3 | | 21 Q2 | Q3 | Q4 Q1 | Q2 Q3 | Q4 |
| 580 | Elevated Landscape Deck - Lift (LT1<2)& Staircase include E&M Progvision: AIP and ICE Certification (Draft) | 50 days | 50 days | 0 days | 100% | Mon 7/10/19 | Mon 25/11/19 | Mon 7/10/19 | Mon 25/11/19 | Mon 7/10/19 | Mon 25/11/19 | 0 days 3 days | 44FF+12 days | | | | | | | | | |
| 581 | Submit & endorse by PM | 21 days | 21 days | 0 days | 100% | Γue 26/11/19 | Mon 16/12/19 | Tue 26/11/19 | | . Tue 26/11/19 | Mon 16/12/19 | 0 days 1 days | 580 | | | | | | | | | |
| 582 | Submit & endorse by Statutory Authorities/Gov. Dept | 120 days | 85 days | 35 days | 71% | Fri 28/2/20 | Fri 26/6/20 | Fri 28/2/20 | NA | Fri 28/2/20 | Thu 13/8/20 | 48 days 1 days | 580 | | | | | | | | | |
| 583 | Prepare AIP and ICE certification (Final) | 60 days | 0 days | 60 days | 0% | Sat 27/6/20 | Tue 25/8/20 | NA | NA | Fri 14/8/20 | Mon 12/10/20 | 48 days 0 days | 580,581,582,44F | | | | | | | | | |
| 584 | Prepare DDA and ICE certification (Draft) | 60 days | 0 days | 60 days | 0% | Γue 11/8/20 | Wed 14/10/20 | NA | NA | Mon 28/9/20 | Tue 1/12/20 | 48 days 1 day | 580,583FF+50 d | | | | | | | | | |
| 585 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 90 days | 0 days | 90 days | 0% | Γhu 15/10/20 | Tue 12/1/21 | NA | NA | Wed 2/12/20 | Mon 1/3/21 | 48 days 0.5 day | rs 584 | | | | | | | | | |
| 586 | Prepare DDA for and ICE certification (Final) | 30 days | 0 days | 30 days | 0% | Wed 13/1/21 | Thu 11/2/21 | NA | NA | Tue 2/3/21 | Wed 31/3/21 | 48 days 0.5 day | s 585,583FF+12 d | | Mary Mary | | | | | | | |
| 587 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 90 days | 0 days | 90 days | 0% | Fri 12/2/21 | Wed 12/5/21 | NA | NA | Thu 1/4/21 | Tue 29/6/21 | 48 days 2 days | 586 | | | | | | | | | |
| 588 | Elevated Landscape Deck - Open Space AIP Subm (Draft) | 50 days | 50 days | 0 days | 100% | Mon 10/2/20 | Mon 30/3/20 | Mon 10/2/20 | Mon 30/3/20 | Mon 10/2/20 | Mon 30/3/20 | 0 days 3 days | | | | | | | | | | |
| 589 | Submit & endorse by PM | 21 days | 21 days | 0 days | 100% | Mon 30/3/20 | Mon 20/4/20 | Mon 30/3/20 | Mon 20/4/20 | Mon 30/3/20 | Mon 20/4/20 | 0 days 0.5 day | vs 588 | | | | | | | | | |
| 590 | Submit & endorse by Statutory Authorities/Gov. Dept | 50 days | 0 days | 50 days | 0% | Mon 6/7/20 | Mon 24/8/20 | NA | NA | Mon 28/9/20 | Mon 16/11/20 | 84 days 1 days | 588 | | | | | | | | | |
| 591 | Prepare AIP and ICE certification (Final) | 30 days | 0 days | 30 days | 0% | Γue 25/8/20 | Wed 23/9/20 | NA | NA | Tue 17/11/20 | Wed 16/12/20 | 84 days 2 days | 588,590,44FF+1 | 1 | | | | | | | | |
| 592 | Prepare DDA and ICE certification (Draft) | 75 days | 0 days | 75 days | 0% | Γhu 24/9/20 | Sat 12/12/20 | NA | NA | Thu 17/12/20 | Sat 6/3/21 | 84 days 1 day | 590SS,591 | | | | | | | | | |
| 593 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | 0 days | 50 days | 0% | Sun 13/12/20 | Sun 31/1/21 | NA | NA | Sun 7/3/21 | Sun 25/4/21 | 84 days 0.5 day | rs 592 | | | | | | | | | |
| 594 | Prepare DDA for and ICE certification (Final) | 21 days | 0 days | 21 days | 0% | Mon 1/2/21 | Sun 21/2/21 | NA | NA | Mon 26/4/21 | Sun 16/5/21 | 84 days 0 days | 593,591FF+6 da | | | | | | | | | |
| 595 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | | Mon 22/2/21 | Mon 12/4/21 | | NA | Mon 17/5/21 | Mon 5/7/21 | 84 days 0 days | | | | | | | | | | |
| 596 | EVA for Open Space AIP Subm (Draft) | 71 days | | 0 days | | Mon 10/2/20 | | Mon 10/2/20 | | Mon 10/2/20 | Mon 20/4/20 | 0 days 3 days | | | | | | | | | | |
| 597 | Submit & endorse by PM | 2 days | | 0 days | | Γue 21/4/20 | | | Mon 27/4/20 | | Mon 27/4/20 | 0 days 1 day | 596 | | | | | | | | | |
| 598 | Submit & endorse by Statutory Authorities/Gov. Dept | 50 days | | 50 days | | Mon 6/7/20 | Mon 24/8/20 | | NA | Sun 4/10/20 | | 90 days 1 days | | | | | | | | | | |
| 599 | Prepare AIP and ICE certification (Final) | 30 days | | 30 days | | Γue 25/8/20 | Wed 23/9/20 | | NA | Mon 23/11/20 | | 90 days 2 days | | | | | | | | | | |
| 600 | Prepare DDA and ICE certification (Draft) | 60 days | | 60 days | | Γhu 24/9/20 | Fri 27/11/20 | | NA | Wed 23/12/20 | Thu 25/2/21 | 90 days 1 day | 598SS,599 | | | | | | | | | |
| 601 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 50 days | | 50 days | | Sat 28/11/20 | Sat 16/1/21 | NA | NA | Fri 26/2/21 | Fri 16/4/21 | 90 days 0.5 day | | | | | | | | | | |
| 602 | Prepare DDA for and ICE certification (Final) | | | | | Sun 17/1/21 | Mon 15/2/21 | | NA | Sat 17/4/21 | Sun 16/5/21 | | | | | | | | | | | |
| 603 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 30 days | | 30 days 50 days | | Tue 16/2/21 | Tue 6/4/21 | NA | | Mon 17/5/21 | Mon 5/7/21 | 90 days 0 days | | | | | | | | | | |
| 604 | <u> </u> | 50 days | | | | | | | NA | | | 90 days 0 days | 602 | | | | | | | | | |
| 605 | Waterfront Promenade and At-grade Open Space Prepare AIP for Observation Deck with Lift (LT5) and Staircase and ICE (Include | | 5.98 days | 527.02 days | | Wed 1/4/20 | Wed 15/9/21 | | NA E: 24/4/20 | Wed 1/4/20 | Tue 28/9/21 | 13 days | | | | | | | | | | |
| 003 | E&M Provision Works) certification (Draft) | 24 days | 24 days | 0 days | 100% | Wed 1/4/20 | Fri 24/4/20 | Wed 1/4/20 | FTI 24/4/20 | Wed 1/4/20 | Fri 24/4/20 | 0 days 1 day | | | | | | | | | | |
| 606 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 14 days | 14 days | 0 days | 0% | Fri 24/4/20 | Fri 8/5/20 | Fri 24/4/20 | Fri 8/5/20 | Fri 24/4/20 | Fri 8/5/20 | 0 days 1 day | 605 | | | | | | | | | |
| 607 | Prepare AIP for Observation Deck with Lift (LT5) and Staircase and ICE (Include | 31 days | 0 days | 31 days | 0% | Wed 16/9/20 | Fri 16/10/20 | NA | NA | Thu 22/10/20 | Sat 21/11/20 | 36 days 1 day | 605,606,647FF,6 | | | | | | | | | |
| | E&M Provision Works) certification (Final) | | | | | | | | | | | | | | | | | | | | | |
| 608 | Prepare DDA for Observation Deck with Lift and Staircase and ICE (Include E&N Provision Works) certification (Draft) | | | 100 days | | Sat 17/10/20 | Sun 24/1/21 | | NA | Sun 22/11/20 | Mon 1/3/21 | 36 days 1 day | 605,647,654,607 | | | | | | | | | |
| 609 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 90 days | | 90 days | | Mon 25/1/21 | | NA | NA | Tue 2/3/21 | Sun 30/5/21 | 36 days 0.5 day | rs 608,607 | | | | | | | | | |
| 610 | Prepare DDA for Observation Deck with Lift and Staircase and ICE (Include E&N Provision Works) certification (Final) | M 31 days | 0 days | 31 days | 0% | Sun 25/4/21 | Tue 25/5/21 | NA | NA | Mon 31/5/21 | Wed 30/6/21 | 36 days 1 day | 609 | | | | | | | | | |
| 611 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 90 days | 0 days | 90 days | 0% | Wed 26/5/21 | Mon 23/8/21 | NA | NA | Thu 1/7/21 | Tue 28/9/21 | 36 days 2 days | 610 | | | | | | | | | |
| 612 | Prepare AIP for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Draft) | 51 days | 0 days | 51 days | 0% | Mon 14/9/20 | Tue 3/11/20 | NA | NA | Sun 27/9/20 | Mon 16/11/20 | 13 days 2 days | | | | | | | | | | |
| 613 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Wed 4/11/20 | Sun 17/1/21 | NA | NA | Tue 17/11/20 | Sat 30/1/21 | 13 days 0.5 day | rs 612 | | | | | | | | | |
| 614 | Prepare AIP for Remaining Works at Waterfront Promenade and ICE (Include | 60 days | | 60 days | | | Thu 18/3/21 | | NA | Sun 31/1/21 | Wed 31/3/21 | 13 days 2 days | | | | | | | | | | |
| | E&M Provision Works) certification (Final) | o outjo | , 11,0 | <u></u> | | 10/1/21 | 10,0,01 | | | 24421 | | | ,010 | | | | | | | | | |
| 615 | Prepare DDA for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Draft) | 75 days | 0 days | 75 days | 0% | Γue 2/2/21 | Sat 17/4/21 | NA | NA | Mon 15/2/21 | Fri 30/4/21 | 13 days 1 day | 612,614FF+30 days | | | | | | | | | |
| 616 | | 60 de | O deve | 60 days | 06/- | Cun 10///01 | Wad 16/6/01 | NΑ | NA | Cot 1/5/01 | Tuo 20/6/21 | 12 deve 1 J | 615 | | | | | | | | | |
| 616 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | | 60 days | | Sun 18/4/21 | Wed 16/6/21 | | NA | Sat 1/5/21 | Tue 29/6/21 | 13 days 1 day | 615 | | | | | | | | | |
| 617 | Prepare DDA for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Final) | 31 days | U days | 31 days | 0% | Гhu 17/6/21 | Sat 17/7/21 | NA | NA | Wed 30/6/21 | Fri 30/7/21 | 13 days 1 day | 616,614FF+15 days | | | | | | | | | |
| 618 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 0 days | 60 days | 0% | Sun 18/7/21 | Wed 15/9/21 | NA | NA | Sat 31/7/21 | Tue 28/9/21 | 13 days 1 day | 617 | | | | | | | | | |
| 619 | AIP for Cladding Design of Landscape Deck, Lifts and associated Works (Draft) | 31 days | 0 days | 31 days | 0% | Mon 20/7/20 | Wed 19/8/20 | NA | NA | Fri 21/8/20 | Sun 20/9/20 | 32 days 1 day | | | | | | | | | | |
| | 1 Doggovijski Dogg | Summary | | | Inactive Miles | stone. | | Duration-on | ılv | | Start-only | Г | Evterns | l Milestone | * | | Critical Split | | | | | |
| itle: Rev.1" is of 22-M | 1 Prog with Progress | Project Sum | ımary | | Inactive Sumr | | | | nmary Rollup | | Finish-only |] | Deadlir | | • | | Progress | | | | | |
| 3 UI ZZ-IVI | Milestone • | Inactive Tas | sk | | Manual Task | 1 | | Manual Sur | nmary I | | External Task | cs | Critical | | | | Manual Progr | gress | | | | |

| | | | | | | | Cont | ract No. ED, | /2018/01 K | TD Project | | | | | | | | | |
|-----------|--|-------------|--------------------|-----------------------|------------------------|----------------|----------------|--------------|--------------|--------------|--------------|--------------------|---|--|------------|------------|---------------|---------|-------|
| Task | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | h Late Start | Late Finish | Total TRA Slack | Predecessors | 2020 | 04 05 | 2021 | 04 0: | 2022 | |
| 20 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 63 days | | 63 days | 0% | Thu 20/8/20 | Wed 21/10/20 | NA | NA | Mon 21/9/20 | Sun 22/11/20 | 32 days 3 day | s 619 | Q2 Q3 | Q4 Q1 | Q2 Q3 | Q4 Q1 | Q2 Q | 23 Q4 |
| 21 | AIP for Cladding Design of Landscape Deck, Lifts and associated Works (Final) | 52 days | 0 days | 52 days | 0% | Thu 22/10/20 | Sat 12/12/20 | NA | NA | Mon 23/11/20 | Wed 13/1/21 | 32 days 2 day | s 619,620 | - | + | | | | |
| 22 | DDA for Cladding Design of Landscape Deck, Lifts and associated Works (Draft) | 61 days | 0 days | 61 days | 0% | Thu 12/11/20 | Mon 11/1/21 | NA | NA | Mon 14/12/20 | Fri 12/2/21 | 32 days 1 day | 619,621FF+30 | - | | | | , | |
| 23 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | | 60 days | 0% | Tue 12/1/21 | Fri 12/3/21 | | NA | Sat 13/2/21 | Tue 13/4/21 | 32 days 1 day | days | _ | l l | | | | |
| 24 | | | | | | | | | | | | | | | | | | , | |
| | DDA for Cladding Design of Landscape Deck, Lifts and associated Works (Final) | 21 days | | 21 days | 0% | Sat 13/3/21 | | NA | NA | Wed 14/4/21 | Tue 4/5/21 | 32 days 1 day | | | | | | , | |
| 5 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 62 days | 0 days | 62 days | 0% | Sat 3/4/21 | | NA | NA | Wed 5/5/21 | Mon 5/7/21 | 32 days 2 day | s 624 | | | | | , | |
| 16 | AIP for Balustrade and Railing of Promenade, Open Space and Assocated Works (Draft) | 30 days | 0 days | 30 days | 0% | Sat 1/8/20 | Sun 30/8/20 | NA | NA | Tue 29/9/20 | Wed 28/10/20 | 59 days 1 day | | | | | | , | |
| :7 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 0 days | 60 days | 0% | Mon 31/8/20 | Thu 29/10/20 | NA | NA | Thu 29/10/20 | Sun 27/12/20 | 59 days 1 day | 626 | | - · | | | | |
| 8 | AIP for Balustrade and Railing of Promenade, Open Space and Assocated Works (Final) | 25 days | 0 days | 25 days | 0% | Fri 30/10/20 | Mon 23/11/20 | NA | NA | Mon 28/12/20 | Thu 21/1/21 | 59 days 0.5 da | ays 626,627 | | | | | , | |
| 9 | DDA for Balustrade and Railing of Promenade, Open Space and Assocated Works | 50 days | 0 days | 50 days | 0% | Wed 4/11/20 | Wed 23/12/20 | NA | NA | Sat 2/1/21 | Sat 20/2/21 | 59 days 1 day | 626,628FF+30 | | | | | , | |
| 0 | (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 0 days | 60 days | 0% | Thu 24/12/20 | Sun 21/2/21 | NA | NA | Sun 21/2/21 | Wed 21/4/21 | 59 days 0 day | s 629 | - | | | | | |
| 1 | DDA for Balustrade and Railing of Promenade, Open Space and Assocated Works | 15 days | 0 days | 15 days | 0% | Mon 22/2/21 | Mon 8/3/21 | NA | NA | Thu 22/4/21 | Thu 6/5/21 | 59 days 1 day | 628,629,630 | - | ₩ | | | , | |
| 2 | (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | | 60 days | 0% | Tue 9/3/21 | Fri 7/5/21 | NA | NA | Fri 7/5/21 | Mon 5/7/21 | 59 days 0 day | | _ | | | | | |
| 3 | Prepare AIP for Permanent Building Works (i.e. Ampitheater, Observation Tower, | | | | 0% | Wed 29/7/20 | Sat 26/9/20 | | NA | Thu 20/8/20 | | | | - | | | | | |
| | Prepare AIP for Permanent Building Works (i.e. Ampitheater, Observation Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE certification (Draft) | oo days | o days | 60 days | U 70 | weu 29/1/20 | Sat 20/9/20 | INA | INA | 1110 20/8/20 | Sun 18/10/20 | 22 days 1 day | 147FF+ / QAYS | | | | | | |
| 4 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 0 days | 60 days | 0% | Sun 27/9/20 | Wed 25/11/20 | NA | NA | Tue 3/11/20 | Fri 1/1/21 | 37 days 0.5 da | ays 633 | | | | | | |
| | Prepare AIP for Permanent Building Works (i.e. Ampitheater, Observation Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House | 30 days | 0 days | 30 days | 0% | Thu 26/11/20 | Fri 25/12/20 | NA | NA | Sat 2/1/21 | Sun 31/1/21 | 37 days 0 day | s 633,634 | | | | | | |
| | Building Blocks) and ICE certification (Final) | | | | | | | | | | | | | | | | | | |
| | Prepare DDA for Permanent Building Works (i.e. Ampitheater, Observation Tower Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE certification (Draft) | , 100 days | 0 days | 100 days | 0% | Fri 2/10/20 | Sat 9/1/21 | NA | NA | Sun 8/11/20 | Mon 15/2/21 | 37 days 1 day | 633,635FF+15 days,151FF+15 days | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Sun 10/1/21 | Thu 25/3/21 | NA | NA | Tue 16/2/21 | Sat 1/5/21 | 37 days 0.5 da | ays 635,636 | _ | | | | | |
| | | | | | 0% | | | | NA | | | | | | | | | , | |
| | Prepare DDA for Permanent Building Works (i.e. Ampitheater, Observation Tower Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) nd ICE certification (Final) | , 30 days | 0 days | 30 days | 0% | Fri 26/3/21 | Sat 24/4/21 | NA . | INA | Sun 2/5/21 | Mon 31/5/21 | 37 days 0 day | s 037 | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Sun 25/4/21 | Thu 8/7/21 | NA | NA | Tue 1/6/21 | Sat 14/8/21 | 37 days 0.5 da | ays 635,636,638 | | | * | | | |
| | Prepare AIP for Permanent Building E&M Works (i.e. Ampitheater, Observation Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE certification (Draft) | 75 days | 0 days | 75 days | 0% | Tue 14/7/20 | Sat 26/9/20 | NA | NA | Wed 5/8/20 | Sun 18/10/20 | 22 days 1 day | 149FF+7 days | | | | | | |
| [| Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 0 days | 60 days | 0% | Sun 27/9/20 | Wed 25/11/20 | NA | NA | Mon 19/10/20 | Thu 17/12/20 | 22 days 0.5 da | ays 640 | - | — — | | | , | |
| 2 | Prepare AIP for Permanent Building E&M Works (i.e. Observation Tower, Toilet | | | 30 days | 0% | Thu 26/11/20 | Fri 25/12/20 | | NA | Fri 18/12/20 | Sat 16/1/21 | 22 days 0 day | | _ | | | | | |
| | Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) and ICE certification (Final) | | o days | 30 days | 0.0 | 1114 20/11/20 | 111 231 121 20 | 1721 | 141 | 111 10/12/20 | Sat 10/1/21 | 22 days o day | 5 0,011 | | | | | | |
| 3 | Prepare DDA for Permanent Building E&M Works (i.e. Ampitheater, Observation Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of | 120 days | 0 days | 120 days | 0% | Sun 27/9/20 | Sun 24/1/21 | NA | NA | Mon 19/10/20 | Mon 15/2/21 | 22 days 1 day | 640,642FF+30 days,151FF+15 | | * | , | | 1 11 11 | |
| | House Building Blocks) and ICE (Include E&M Provision Works) certification (Draft) | | | | | | | | | | | | days | | | | | | |
| 4 | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 60 days | 0 days | 60 days | 0% | Mon 25/1/21 | Thu 25/3/21 | NA | NA | Tue 16/2/21 | Fri 16/4/21 | 22 days 0.5 da | ays 642,643 | | | | | 1 11 11 | |
| 5 | Prepare DDA for Permanent Building E&M Works (i.e. Ampitheater, Observation | 30 days | 0 days | 30 days | 0% | Fri 26/3/21 | Sat 24/4/21 | NA | NA | Sat 17/4/21 | Sun 16/5/21 | 22 days 0 day | s 644 | - | | Y . | | | |
| | Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collection Block, Back of House Building Blocks) nd ICE certification (Final) | | | | | | | | | | | | | | | | | 1 11 11 | |
| | Cubarit Complements DM and Contrate and Authorities IC on Done | 00 1 | 0.1 | 00 1 | 001 | C 25/4/21 | E.: 02/7/01 | NIA | NIA | M 17/5/01 | C-+ 14/0/01 | 22 Jan 0.5 J | 642.642.645 | | | | | 1 11 11 | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 90 days | | 90 days | 0% | Sun 25/4/21 | Fri 23/7/21 | | NA | Mon 17/5/21 | Sat 14/8/21 | | ays 642,643,645 | _ | | | | | |
| | Prepare AIP for Temporary Building Works (i.e. temporary management office and toilet blocks) and ICE certification (Draft) | 75 days | 0 days | 75 days | 0% | Mon 3/8/20 | Fri 16/10/20 | NA | NA | Thu 20/8/20 | Mon 2/11/20 | 17 days 1 day | 149FF+7 days | | | | | | |
| | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Sat 17/10/20 | Wed 30/12/20 | NA | NA | Tue 3/11/20 | Sat 16/1/21 | 17 days 0 day | s 647 | $+\parallel \parallel \parallel \parallel \parallel$ | | | | | |
| 9 | Prepare AIP for Temporary Building Works (i.e. temporary management office and | | | 30 days | 0% | | Fri 29/1/21 | | NA | Sun 17/1/21 | Mon 15/2/21 | 17 days 0 day | | | 4 | | | | |
|) | toilet blocks) and ICE certification (Final) | | | | | | | | | | | | | | | | | | |
| , | Prepare DDA for AIP for Temporary Building Works (i.e. temporary management office and toilet blocks) and ICE (Include E&M Provision Works) and ICE certification (Draft) | 130 days | o uays | 150 days | 0% | Fri 2/10/20 | Sun 28/2/21 | INA | NA | Mon 19/10/20 | wed 1//3/21 | 17 days 1 day | 633,640,649FF- days,151FF+15 days | | | | | | |
| I | Submit & endorse by PM and Statutory Authorities/Gov. Dept | 75 days | 0 days | 75 days | 0% | Mon 1/3/21 | Fri 14/5/21 | NA | NA | Thu 18/3/21 | Mon 31/5/21 | 17 days 0.5 da | ays 649,650 | | | | | | |
| 52 | Prepare DDA for AIP for Temporary Building Works (i.e. temporary management | 30 days | 0 days | 30 days | 0% | Sat 15/5/21 | Sun 13/6/21 | NA | NA | Tue 1/6/21 | Wed 30/6/21 | 17 days 0 day | s 651 | | | | | | |
| i3 | office and toilet blocks) and ICE (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept | 00 days | 0 days | 90 days | 0% | Mon 14/6/21 | Sat 11/9/21 | NΔ | NA | Thu 1/7/21 | Tue 28/9/21 | 17 days 0 day | s 652 | | | 9 | | | |
| ., | The state of the s | 70 uays | o uays | 70 days | 0 /6 | 141011 14/0/21 | Dat 11/7/21 | 17/1 | 1321 | 111u 1/1/21 | 1 UC 2017/21 | 17 days U day | 0.002 | | | | | | |
| e: Rev.11 | Prog with Progress | Summary | | | Inactive N | | | Duration-or | • | | Start-only | Е | | ternal Milestone | \$ | | ritical Split | | |
| | ay-20 Split | Project Sur | nmary | | Inactive S | ummary | | Manual Sur | mmary Rollup | | Finish-only | 3 | Dea | adline | 4 | P | rogress | _ | |



| | | | | | | | | | | D Project | | | | | | | | | | | | | | | | |
|---------|--|-------------|--------------------|-----------------------|------------------------|--------------------------|--------------|--------------|----------------|--------------|--------------|----------------|----------|-----------------|---------------------------------|--------|----|-------------------|----------------------|-----------------|---|---------------|--------|---------|------|------------|
| Tas | k Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 O2 C | 3 Q4 | 01 | 2021 Q2 0 | | 04 0 | | 2022 12 03 | 3 Q4 | 01 | 2023 | 3 Q4 Q |
| 96 | Section 6 | 0 days | 0 days | 0 days | 0% | Thu 18/5/23 | Thu 18/5/23 | NA | NA | Tue 30/5/23 | Tue 30/5/23 | 12 days | 0 days | 1357FF,1546FF, | | | | | | | | | | | 18/5 | |
| 597 | Section 7 | 0 days | 0 days | 0 days | 0% | Wed 29/5/24 | Wed 29/5/24 | NA | NA | Wed 29/5/24 | Wed 29/5/24 | 0 days | 0 days | 1549FF | | | | | | | | | | | | |
| 98 | Section 8 | 0 days | 0 days | 0 days | 0% | Wed 24/11/21 | Wed 24/11/21 | NA | NA | Thu 2/12/21 | Thu 2/12/21 | 8 days | 0 days | 1144FF | | | | | | 4€ -24/1 | $A \parallel \parallel \parallel \parallel$ | | | | | |
| 599 | Section 9 | 0 days | 0 days | 0 days | 0% | Sat 3/7/21 | Sat 3/7/21 | NA | NA | Mon 5/7/21 | Mon 5/7/21 | 2 days | 0 days | 1222 | | | | e i | 3/7 | | | | | | | |
| 700 | Section 10 | 0 days | 0 days | 0 days | 0% | Thu 11/5/23 | Thu 11/5/23 | NA | NA | Tue 30/5/23 | Tue 30/5/23 | 19 days | 0 days | 1559FF | | | | | | | | | | | 11/5 | |
| 701 | KD1 | 0 days | 0 days | 0 days | 0% | Tue 11/8/20 | Tue 11/8/20 | NA | NA | Fri 7/8/20 | Fri 7/8/20 | -4 days | 0 days | 758 | | 11/8 | | | | | | | | | | |
| 702 | KD2 | | 0 days | 0 days | 0% | Sat 17/4/21 | Sat 17/4/21 | NA | NA | Sun 18/4/21 | Sun 18/4/21 | | 0 days | 791,821,771,774 | | | | 1794 | | | | | | | | |
| 703 | KD3 | | 0 days | 0 days | 0% | Mon 26/4/21 | Mon 26/4/21 | | NA | Tue 1/6/21 | Tue 1/6/21 | 36 days | | 822,821 | | | | | | | | | | | | |
| 704 | KD4 | | | | | | Fri 28/1/22 | | | Mon 31/1/22 | | | | 1255FF | | | | 2014 | | | | | | | | |
| | | | 0 days | 0 days | 0% | Fri 28/1/22 | | | NA | | Mon 31/1/22 | 3 days | | | | | | | | | 871 | | | | | |
| 705 | KD5 | | 0 days | 0 days | 0% | Fri 25/6/21 | | NA | NA | Fri 17/9/21 | Fri 17/9/21 | 84 days | | 1252FF | | | | (4) 2 | 36 | | | | | | | |
| 706 | KD6 | 0 days | 0 days | 0 days | 0% | Tue 21/12/21 | Tue 21/12/21 | NA | NA | Wed 29/12/21 | Wed 29/12/21 | 8 days | 0 days | 883 | | | | | | 21 | 12 | | | | | |
| 07 | KD7 | 0 days | 0 days | 0 days | 0% | Thu 19/8/21 | Thu 19/8/21 | NA | NA | Fri 3/6/22 | Fri 3/6/22 | 288 days | 0 days | 1254FF | | | | | < 19/8 | | | | | | | |
| '08 Co | onstruction Works | 1499 day | s 75.67 days | 1423.33 days? | 0% | Thu 16/5/19 | Wed 29/5/24 | Thu 16/5/19 | NA | Thu 16/5/19 | Wed 29/5/24 | 0 days? | | _ | | | | | | - | | | | | | |
| 09 | Procurement of Materials and Equipments | 615 days | 12.7 days | 602.3 days | 0% | Thu 8/8/19 | Wed 1/9/21 | Thu 8/8/19 | NA | Thu 8/8/19 | Tue 22/2/22 | 140 days | 3 | _ | | | | | 7 | | | | | | | |
| 10 | Office Accommodation | 21 days | 21 days | 0 days | 100% | Thu 8/8/19 | Fri 20/12/19 | Thu 8/8/19 | Fri 20/12/19 | Thu 8/8/19 | Fri 20/12/19 | 0 days | 1 day | | | | | | | | | | | | | |
| 711 | Lift Submission Preparation | 15 days | 0 days | 15 days | 0% | Sat 12/9/20 | Sat 26/9/20 | NA | NA | Wed 23/9/20 | Wed 7/10/20 | 11 days | 0.5 days | 173 | | | | | | | | | | | | |
| 12 | Lift Comment & Approval | 21 days | 0 days | 21 days | 0% | Sun 27/9/20 | Sat 17/10/20 | NA | NA | Thu 8/10/20 | Wed 28/10/20 | 11 days | 0.5 days | 711 | | | | | | | | | | | | |
| 713 | Lifts ((5 nos) | 180 days | | 180 days | 0% | Sun 18/10/20 | Thu 15/4/21 | NA | NA | Thu 29/10/20 | Mon 26/4/21 | | 30 days | | | | | | | | | | | | | |
| 714 | Pumps for Pump Room next to Underpass | 150 days | | 150 days | 0% | Sat 23/5/20 | Thu 19/11/20 | | NA | Wed 8/7/20 | Tue 5/1/21 | 37 days | | ,,,, | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Elevated landscape deck soffit panels | 120 days | | 120 days | 0% | Mon 14/9/20 | | NA | NA | Thu 4/2/21 | Mon 5/7/21 | 117 days | | | | | | | | | | | | | | |
| 16 | Underpass & Depressed Rd - facades | 120 days | 0 days | 120 days | 0% | Tue 1/12/20 | Thu 29/4/21 | NA | NA | Wed 12/5/21 | Mon 4/10/21 | 129 days | 30 days | | | | | | | | | | | | | |
| 17 | E & M equipment & fittings (for Open space & Promenade) | 120 days | 0 days | 120 days | 0% | Tue 6/4/21 | Fri 27/8/21 | NA | NA | Mon 27/9/21 | Tue 22/2/22 | 144 days | 30 days | | | | | | | | | | | | | |
| 18 | Bridge Parapet Fabrication | 120 days | 0 days | 120 days | 0% | Mon 16/11/20 | Mon 15/3/21 | NA | NA | Wed 26/5/21 | Wed 22/9/21 | 191 days | 30 days | | | | | | | | | | | | | |
| 19 | Pumps for Salt and Sewage Pumping Stations | 150 days | 0 days | 150 days | 0% | Mon 5/4/21 | Wed 1/9/21 | NA | NA | Sun 19/9/21 | Tue 15/2/22 | 167 days | 30 days | | | | | | | | | | | | | |
| 20 | Excavation Permit | 300 days | 0 days | 300 days | 0% | Mon 31/8/20 | Thu 2/9/21 | NA | NA | Mon 23/11/20 | Tue 1/3/22 | 69 days | | | | | | | 71 | | | | | | | |
| 721 | TTA Application for Junction Modification Rd L6 & D2 | 182 days | 0 days | 182 days | 0% | Tue 1/9/20 | Mon 1/3/21 | NA | NA | Mon 23/11/20 | Sun 23/5/21 | 83 days | 2 days | | | | | | | | | | | | | |
| 22 | Interfaced DCS 3 x DN150mm chilled water pipes under contract no. 2852EM17A and 4 nos. of signaling cable along North Approach Ramp and Gate 3B (Agreed) | 368 days | 0 days | 368 days | 0% | Mon 31/8/20 | Thu 2/9/21 | NA | NA | Sat 27/2/21 | Tue 1/3/22 | 180 days | 3 day | | | | | | | | | | | | | |
| 23 | Section 1 | 842 days | 107.17 days | 734.83 days | 0% | Thu 16/5/19 | Mon 14/3/22 | Thu 16/5/19 | NA | Thu 16/5/19 | Wed 29/5/24 | 657 days | 3 | - | | | | | | | | | | | | |
| 24 | Agree Interface Coordination Plan with CKR & KTSP | 14 days | 14 days | 0 days | 100% | Tue 27/8/19 | Wed 11/9/19 | Tue 27/8/19 | Wed 11/9/19 | Tue 27/8/19 | Wed 11/9/19 | 0 days | 0 days | 1225,1226 | | | | | | | | | | | | |
| 25 | Ground Investigation | 341 days | 193.02 days | 147.98 days | 0% | Thu 12/9/19 | Thu 5/11/20 | Thu 12/9/19 | NA | Thu 12/9/19 | Sat 13/8/22 | 526 days | ; | _ | | | | | | | | | | | | |
| 26 | GI Work | | 180 days | 138 days | 57% | Thu 12/9/19 | | Thu 12/9/19 | | Thu 12/9/19 | Sat 13/8/22 | | 0.5 days | 724 | | | | | | | | | | | | |
| | | | | | | | | | | | | | o.5 days | /24 | | | | | | | | | | | | |
| 27 | Part 1 - Junction Modification Rd L6 & D2 | 414 days | _ | 414 days | 0% | Mon 5/10/20 | Fri 25/2/22 | | NA | Mon 23/11/20 | | 3 days | | | | | | | | | | | | | | |
| 28 | XP Application for Junction Modification Rd L6 & D2 | 182 days | | 182 days | 0% | Mon 5/10/20 | | NA | NA | Mon 23/11/20 | | 49 days | | | | | | | | | | | | | | |
| 29 | Stage 1: Trial Pit to locate the existing underground cables and utilities | 14 days | 0 days | 14 days | 0% | Thu 20/5/21 | Fri 4/6/21 | NA | NA | Mon 24/5/21 | Tue 8/6/21 | 3 days | 1 day | 141,375,721,728 | | | | | | | | | | | | |
| 30 | Stage 2: Trial Pit to locate the existing underground cables and utilities | 14 days | 0 days | 14 days | 0% | Sat 5/6/21 | Tue 22/6/21 | NA | NA | Wed 9/6/21 | Fri 25/6/21 | 3 days | 1 day | 729 | | | | | | | | | | | | |
| 31 | Stage 3: East Bound + Drop Kerb Modification + Road Marking | 76 days | 0 days | 76 days | 0% | Wed 23/6/21 | Mon 20/9/21 | NA | NA | Sat 26/6/21 | Fri 24/9/21 | 3 days | 1 day | 730 | | | | | - | | | | | | | |
| 732 | Stage 4: TTA for Central Divider | 76 days | 0 days | 76 days | 0% | Tue 21/9/21 | Tue 21/12/21 | NA | NA | Sat 25/9/21 | Fri 24/12/21 | 3 days | 1 day | 731,113 | | | | | | | | | | | | |
| 33 | Stage 5: Construct 2 Dividers | 51 days | 0 days | 51 days | 0% | Wed 22/12/21 | Fri 25/2/22 | NA | NA | Tue 28/12/21 | Tue 1/3/22 | 3 days | 1 day | 732 | | | | | | | | | | | | |
| 734 | Bridge D3 (Approach Ramp and Bridge) CH1087-1444.7 | 812 days | 91.74 days | 720.26 days | 0% | Thu 16/5/19 | Mon 7/2/22 | Thu 16/5/19 | NA | Mon 11/11/19 | Wed 29/5/24 | 687 days | 3 | | | | | | | | | | | $\ \ $ | | |
| 35 | North Approach Ramp | 636 days | 66.85 days | 569.15 days | 0% | Wed 25/12/19 | Fri 18/2/22 | Wed 25/12/19 | NA | Wed 25/12/19 | Tue 1/3/22 | 9 days | | _ | $\parallel \parallel \parallel$ | | | | | | | | | | | |
| 36 | Procurement of Movement Joints for Bridge Works | 180 days | | 180 days | 0% | Tue 11/8/20 | Sat 6/2/21 | NA | NA | Fri 9/10/20 | Tue 6/4/21 | | 30 days | 194,220 | | • | | | | | | | | | | |
| 37 | Sheetpile Driven along North, Sourth & East Side ELS Cofferdam (assume 169 | 4 days | | | 100% | Tue 14/1/20 | Fri 17/1/20 | Tue 14/1/20 | | Tue 14/1/20 | Fri 17/1/20 | 0 days | | 17 15220 | | | | | | | | | | | | |
| | long) | | | 0 days | | | | | | | | | o.o uay | | | | | | | | | | | | | |
| 738 | KTSP Completed Driven H-pile Installation | | 41 days | 0 days | 100% | Wed 25/12/19 | | | | Wed 25/12/19 | Mon 3/2/20 | 0 days | | | | | | | | | | | | | | |
| 739 | Hoarding Removal along KTSP Site | 5 days | 5 days | 0 days | 100% | Tue 4/2/20 | Sat 8/2/20 | Tue 4/2/20 | Sat 8/2/20 | Tue 4/2/20 | Sat 8/2/20 | 0 days | 0.5 day | 738 | | | | | | | | | | | | |
| tle Rev | 11 Prog with Progress | Summary | | | Inactive M | filestone \diamondsuit | | Duration-on | ıly | | Start-only | | С | Externa | ıl Milestor | ne 🔷 | | | Crit | ical Split | | | | | | |
| | May-20 Split | Project Sun | nmary | | Inactive Su | ummary 📑 | | Manual Sun | nmary Rollup 🔳 | | Finish-only | | 3 | Deadlin | ie | 1 | | | Prog | gress | | _ | | | | |

| | | | | | | | Con | tract No. ED/ | /2018/01 KT | D Project | | | | | | | | | | | | | |
|-------------------|--|-------------|----------------------|-----------------------|------------------------|-------------------------|--------------|---------------|----------------|----------------------------|--------------|----------------|----------|---------------------|---|--------------|-----------|---------------------|----------|---------|------|--------|---------------------|
| Task Name | | Duration | n Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 | O3 O4 | | 2021 2 O3 O4 | 4 01 | 2022 | | 01 (| 2023 O2 O3 O |
| 740 | Sheetpile Driven along Western ELS Cofferdam (assume 105m long) | 8 days | 8 days | 0 days | 100% | Tue 11/2/20 | Wed 19/2/20 | Tue 11/2/20 | Wed 19/2/20 | Tue 11/2/20 | Wed 19/2/20 | | 0.5 day | 737,739 | Q2 | کی <u>(4</u> | 1 Q1 Q2 | | <u> </u> | 1 22 1 | ي (4 | VI V | <u>14 Q3 Q</u> |
| 741 | Excavattion with Shoring and Waling Installation with Rock Fill Replacement include Sand Raplacemnet Test with PWRL for KD1 | 44 days | 44 days | 0 days | 100% | Thu 20/2/20 | Wed 15/4/20 | Thu 20/2/20 | Wed 15/4/20 | Thu 20/2/20 | Wed 15/4/20 | 0 days | 1 day | | | + | | | | | | | |
| 742 | Remaining Excavation with Shoring and Waling Installation with Rock Fill Replacement include Sand Raplacement Test with PWRL | 37 days | 0 days | 37 days | 0% | Tue 6/10/20 | Wed 18/11/20 |) NA | NA | Tue 13/10/20 | Wed 25/11/20 | 6 days | 2 days | 741,761 | | | | | | | | | |
| 743 | North Approach Ramp (Bays No.2,3,4&5) (Next to BEM) (KD1) | 106 days | s 34.01 days | 71.99 days | 0% | Wed 1/4/20 | Tue 11/8/20 | Wed 1/4/20 | NA | Wed 1/4/20 | Fri 7/8/20 | -3 days | | | | 1 | | | | | | | ı |
| 744 | Bay No.3 Base Slab with Blinding (1)+(2) | 15 days | 15 days | 0 days | 100% | Wed 1/4/20 | Wed 22/4/20 | Wed 1/4/20 | Wed 22/4/20 | Wed 1/4/20 | Wed 22/4/20 | 0 days | 0.5 days | 741SS+35 day | ys 🕳 | | | | | | | | ı |
| 745 | Bay No.3: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former | r) 42 days | 22 days | 20 days | 45% | Wed 22/4/20 | Thu 11/6/20 | Wed 22/4/20 | NA | Wed 22/4/20 | Thu 11/6/20 | -3 days | | 744 | | | | | | | | | ı |
| 746 | May 2020 Inclement Weather | 3 days | 0 days | 3 days | 0% | Fri 12/6/20 | Mon 15/6/20 | NA | NA | Tue 9/6/20 | Thu 11/6/20 | -3 days | | 745,74SS | | | | | | | | | ı |
| 747 | Bay No. 3: Wall & Column Casted and Formwork & Falsework upto Soffit o Top Slab(6)+(7) | f 15 days | 0 days | 15 days | 0% | Tue 16/6/20 | Sat 4/7/20 | NA | NA | Fri 12/6/20 | Tue 30/6/20 | -3 days | 1 day | 745,746 | | | | | | | | | 1 |
| 748 | Bay No. 3: Top Slab Construction with Formwork & Falsework Erection(8) | 12 days | 0 days | 12 days | 0% | Mon 6/7/20 | Sat 18/7/20 | NA | NA | Thu 2/7/20 | Wed 15/7/20 | -3 days | 1 day | 747 | | | | | | | | | ı |
| 749 | Bay No.2 Base Slab with Blinding (1)+(2) | 11 days | 11 days | 0 days | 100% | Tue 28/4/20 | Tue 12/5/20 | Tue 28/4/20 | Tue 12/5/20 | Tue 28/4/20 | Tue 12/5/20 | 0 days | 1 day | 741FS+2 days | s | + | | | | | | | ı |
| 750 | Bay No.2: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former (3)+(4)+(5) | r) 23 days | 6 days | 17 days | 25% | Sat 16/5/20 | Thu 11/6/20 | Sat 16/5/20 | NA | Sat 16/5/20 | Thu 11/6/20 | -1 day | 1 day | 749 | | | | | | | | | ı |
| 751 | Bay No. 2: Wall & Column Casted and Formwork & Falsework upto Soffit of | f 18 days | 0 days | 18 days | 0% | Fri 12/6/20 | Sat 4/7/20 | NA | NA | Thu 11/6/20 | Fri 3/7/20 | -1 day | 1 day | 750 | | | | | | | | | ı |
| 752 | Top Slab (6)+(7) Bay No. 2: Top Slab Construction with Formwork & Falsework Erection(8) | 12 days | 0 days | 12 days | 0% | Wed 8/7/20 | Tue 21/7/20 | NA | NA | Sat 4/7/20 | Fri 17/7/20 | -3 days | 1 day | 751,748FF+2 | | | | | | | | | . |
| 753 | Bay No.4 Base Slab with Blinding (1)+(2) | 15 days | 15 days | 0 days | 100% | Wed 1/4/20 | Wed 13/5/20 | Wed 1/4/20 | Wed 13/5/20 | Wed 1/4/20 | Wed 13/5/20 | 0 days | 1 day | 741SS+35 day | ys 🖦 🛮 | | | | | | | | . |
| 754 | Bay No.4: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former (3)+(4)+(5) | r) 22 days | 8 days | 14 days | 36% | Thu 14/5/20 | Tue 9/6/20 | Thu 14/5/20 | NA | Thu 14/5/20 | Tue 9/6/20 | -3 days | 1 day | 753,750SS+7 | | | | | | | | | . |
| 755 | Bay No. 4: Wall & Column Casted and Formwork & Falsework upto Soffit of | f 20 days | 0 days | 20 days | 0% | Wed 10/6/20 | Sat 4/7/20 | NA | NA | Sat 6/6/20 | Tue 30/6/20 | -3 days | 1 day | days 754 | | | | | | | | | ı |
| 756 | Top Slab (6)+(7) Bay No. 4: Top Slab Construction with Formwork & Falsework Erection (8) | 14 days | 0 days | 14 days | 0% | Mon 6/7/20 | Tue 21/7/20 | NA | NA | Thu 2/7/20 | Fri 17/7/20 | -3 days | 1 day | 755,751SS+4 | | | | | | | | | ı |
| 757 | Backfill (9) | 12 days | 0 days | 12 days | 0% | Wed 22/7/20 | Tue 4/8/20 | NA | NA | Sat 18/7/20 | Fri 31/7/20 | -3 days | 0.5 days | days 756,752,748 | | | | | | | | | ı |
| 758 | Sheetpile Extraction and Road Reinstatement (10) (KD1) | 6 days | 0 days | 6 days | 0% | Wed 5/8/20 | Tue 11/8/20 | NA | NA | Sat 1/8/20 | Fri 7/8/20 | -3 days | 0.5 days | 757 | | | | | | | | | 1 |
| 759 | North Approach Ramp (Bays No.5 & 6) (Next to BEM) | 92 days | 0 days | 92 days | 0% | Mon 24/8/20 | Mon 23/11/20 |) NA | NA | Thu 27/8/20 | Thu 17/12/20 | 3 days | | | | | | | | | | | 1 |
| 760 | Bay No.5 Base Slab with Blinding (1+2) | | 0 days | 8 days | 0% | Thu 10/9/20 | Fri 18/9/20 | | NA | Mon 14/9/20 | Tue 22/9/20 | | 1 day | 749,753SS+4 | da | | | | | | | | . |
| 761 | Bay No.5: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former | | | 12 days | 0% | Sat 19/9/20 | Mon 5/10/20 | | NA | Wed 23/9/20 | Thu 8/10/20 | | 1 day | 760 | $-\parallel\parallel\parallel\parallel$ | | | | | | | | . |
| 762 | (3+4+5) Bay No. 5: Wall & Column Casted and Formwork & Falsework upto Soffit o | | | 20 days | 0% | Tue 6/10/20 | Thu 29/10/20 | | NA | Fri 9/10/20 | Mon 2/11/20 | | 1 day | 761,755SS+4 | $- $ \square | | | | | | | | |
| 763 | Top Slab (6)+(7) Bay No. 5: Top Slab Construction with Formwork & Falsework Erection & | | | 12 days | 0% | Fri 30/10/20 | Thu 12/11/20 | | NA | Tue 3/11/20 | Mon 16/11/20 | | 1 day | days 762,227FF | $-\parallel\parallel\parallel$ | | | | | | | | . |
| 764 | Removal (8) Bay No.6 Base Slab with Blinding (1)+(2) | | 0 days | 15 days | 0% | Mon 24/8/20 | Wed 9/9/20 | | NA | Thu 27/8/20 | Sat 12/9/20 | 3 days | | 741SS+35 day | vs | | | | | | | | . |
| 765 | Bay No.6: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former | | | 17 days | 0% | Thu 10/9/20 | Tue 29/9/20 | | NA | Wed 7/10/20 | | 21 days | | 764 | ~ | | | | | | | | . |
| 766 | (3)+(4)+(5) Bay No. 6: Wall & Column Casted and Formwork & Falsework upto Soffit o | | | 27 days | 0% | Wed 30/9/20 | Tue 3/11/20 | | NA | Wed 28/10/20 | Fri 27/11/20 | 21 days | | 765 | $\parallel \parallel \parallel$ | | | | | | | | . |
| 767 | Top Slab(6)+(7) Bay No. 6: Top Slab Construction with Formwork & Falsework Erection & | | | 17 days | 0% | Wed 4/11/20 | Mon 23/11/20 | | NA | Sat 28/11/20 | | | | 765,766 | | | | | | | | | ı |
| 768 | Removal (8) North Approach Ramp (Bays 7&8) (Next to BEM) | | 0 days | 56 days | 0% | Tue 26/1/21 | Wed 7/4/21 | | NA | Tue 26/1/21 | Sat 17/4/21 | 0 days | 1 uay | 703,700 | | | | | | | | | 1 |
| 769 | | | | | | | | | | | | | 0.5 days | 016 767 | | | IIII III | | | | | | 1 |
| 770 | Bay 7: Blinding | | 0 days | 1 day | 0% | Tue 26/1/21 | Tue 26/1/21 | | NA | Tue 26/1/21 Wed 27/1/21 | Tue 26/1/21 | 0 days | | | _ | | 1 | | | | | | . |
| | Bay 7: Base slab | | 0 days | 9 days | 0% | Wed 27/1/21 | | NA | NA | | Fri 5/2/21 | _ | _ | 816,769 | | | | | | | | | . |
| 771 | Bay 7: Wall | 13 days | | 13 days | 0% | Sat 6/2/21 | Wed 24/2/21 | | NA | Wed 31/3/21 | Sat 17/4/21 | 42 days | | 819,770 | | | | | | | | | . |
| 772 | Bay 8: Blinding | 1 day | 0 days | 1 day | 0% | Wed 27/1/21 | Wed 27/1/21 | | NA | Fri 5/2/21 | Fri 5/2/21 | | 0.5 days | | | | | | | | | | . |
| 773 | Bay 8: Base slab | | | 9 days | 0% | Sat 6/2/21 | Fri 19/2/21 | | NA | Sat 6/2/21 | Fri 19/2/21 | | - | 816,770,772 | | | | | | | | | . |
| 774 | Bay 8: Wall | | 0 days | 13 days | 0% | Sat 20/2/21 | Sat 6/3/21 | | NA | Sat 20/2/21 | Sat 6/3/21 | | 1 day | 773,819 | | | | | | | | | . |
| 775 | Bays No.7&8: Backfilling | | 0 days | 15 days | 0% | Mon 8/3/21 | Wed 24/3/21 | | NA | Thu 18/3/21 | Wed 7/4/21 | | | 774,767 | | | | | | | | | . |
| 776 | Bays No.7&8: Extract Sheetpile | | 0 days | 9 days | 0% | Thu 25/3/21 | Wed 7/4/21 | | NA | Thu 8/4/21 | Sat 17/4/21 | 9 days | 0.5 days | 775 | | | | | | | | | . |
| 777 | North Approach Ramp (Bays No.2,3,4) (Next to KTSP) | | s 0 days | 149 days | 0% | Mon 17/8/20 | Tue 12/1/21 | | NA | Tue 25/8/20 | Fri 5/2/21 | 8 days | | | | | | | | | | | . |
| 778 | Bay No.3 Base Slab with Blinding (1)+(2) | 15 days | 0 days | 15 days | 0% | Mon 24/8/20 | Wed 9/9/20 | NA | NA | Tue 1/9/20 | Thu 17/9/20 | 7 days | 1 day | | | | | | | | | | . |
| 779 | Bay No.3: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former (3)+(4)+(5) | r) 17 days | 0 days | 17 days | 0% | Thu 10/9/20 | Tue 29/9/20 | NA | NA | Wed 7/10/20 | Tue 27/10/20 | 21 days | 1 day | 778 | | | | | | | | | . |
| 780 | Bay No. 3: Wall & Column Casted and Formwork & Falsework upto Soffit o Top Slab(6)+(7) | f 27 days | 0 days | 27 days | 0% | Wed 30/9/20 | Tue 3/11/20 | NA | NA | Wed 28/10/20 | Fri 27/11/20 | 21 days | 1 day | 779 | | | | | | | | | . |
| 781 | Bay No. 3: Top Slab Construction with Formwork & Falsework Erection & Removal (8) | 17 days | 0 days | 17 days | 0% | Wed 4/11/20 | Mon 23/11/20 |) NA | NA | Sat 28/11/20 | Thu 17/12/20 | 21 days | 1 day | 779,780 | | | | | | | | | . |
| 782 | Bay No.2 Base Slab with Blinding (1)+(2) | 15 days | 0 days | 15 days | 0% | Mon 17/8/20 | Wed 2/9/20 | NA | NA | Tue 25/8/20 | Thu 10/9/20 | 7 days | 1 day | 778FS-21 day | 'S | + | | | | | | | . |
| 783 | Bay No.2: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former (3)+(4)+(5) | r) 17 days | 0 days | 17 days | 0% | Thu 3/9/20 | Tue 22/9/20 | NA | NA | Wed 7/10/20 | Tue 27/10/20 | 27 days | 1 day | 782 | | | | | | | | | |
| Fitle: Ray 11 Dra | | Summary | | | Inactive M | ilestone \diamondsuit | 1 | Duration-or | ıly | | Start-only | | C C | E | External Milest | one « | > | Critic | al Split | <u></u> | | | 11111 |
| as of 22-May-2 | Cnlit | Project Sur | mmary | | Inactive Su | ımmary 🏻 | | Manual Sur | mmary Rollup 🛮 | | Finish-only | | 3 | Ι | Deadline | , | ŀ | Progre | ess | _ | | | |

| | | | | | | | | | /2018/01 KT | | | | | | | | | | | |
|------------------|---|-------------|--------------------|-----------------------|------------------------|--------------|--------------|--------------|----------------|--------------|--------------|----------------|----------|-----------------|--|----------|----------------------|----------------|----------------------|-------|
| Task Name | | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 Q2 Q3 | 04 01 | 2021 | 03 04 0 | 2022 Q1 Q2 Q3 | Q4 Q1 |
| 34 | Bay No. 2: Wall & Column Casted and Formwork & Falsework upto Soffit of Top Slab(6)+(7) | 27 days | | 27 days | 0% | Wed 23/9/20 | Tue 27/10/20 | NA | NA | Wed 28/10/20 | Fri 27/11/20 | 27 days | 1 day | 783 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | | 22 (3) | |
| 35 | Bay No. 2: Top Slab Construction with Formwork & Falsework Erection & | 17 days | 0 days | 17 days | 0% | Wed 28/10/20 | Mon 16/11/20 | NA | NA | Sat 28/11/20 | Thu 17/12/20 | 27 days | 1 day | 783,784 | | | | | | |
| 36 | Removal (8) Bay No.4 Base Slab with Blinding (1)+(2) | 15 days | 0 days | 15 days | 0% | Tue 18/8/20 | Thu 3/9/20 | NA | NA | Wed 26/8/20 | Fri 11/9/20 | 7 days | 1 day | 782SS+1 day | | | | | | |
| 37 | Bay No.4: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former) | | _ | 17 days | 0% | Fri 4/9/20 | Wed 23/9/20 | | NA | Sat 12/9/20 | Sat 3/10/20 | | | 786 | | | | | | |
| | (3)+(4)+(5) | | _ | | | | | | | | | | | | | | | | | |
| 38 | Bay No. 4: Wall & Column Casted and Formwork & Falsework upto Soffit of Top Slab(6)+(7) | | | 27 days | 0% | Thu 24/9/20 | Wed 28/10/20 | NA | NA | Mon 5/10/20 | Thu 5/11/20 | 7 days | 1 day | 787 | | | | | | |
| 39 | Bay No. 4: Top Slab Construction with Formwork & Falsework Erection & Removal (8) | 17 days | 0 days | 17 days | 0% | Thu 29/10/20 | Tue 17/11/20 | NA | NA | Fri 6/11/20 | Wed 25/11/20 | 7 days | 1 day | 787,788 | | # | | | | |
| 90 | Bay No.2,3&4: Backfilling upto +3.0mPD | 28 days | 0 days | 28 days | 0% | Tue 24/11/20 | Mon 28/12/20 | NA | NA | Fri 18/12/20 | Fri 22/1/21 | 21 days | 1 day | 789,785,781,767 | | * | | | | |
| 91 | Bay No.4: Sheetpile Extraction (KD2) | 12 days | 0 days | 12 days | 0% | Tue 29/12/20 | Tue 12/1/21 | NA | NA | Sat 23/1/21 | Fri 5/2/21 | 21 days | 0.5 days | 790 | | | _ | | | |
| 92 N | North Approach Ramp (Bays No.5,6) (Next to KTSP) | 141 days | 0 days | 141 days | 0% | Wed 18/11/20 | Wed 7/4/21 | NA | NA | Thu 26/11/20 | Sat 10/4/21 | 3 days | | | | | | | | |
| 93 | Bay No.5 Base Slab with Blinding (1)+(2) | 15 days | | 15 days | 0% | | Wed 9/12/20 | | NA | Thu 26/11/20 | Sat 12/12/20 | | 1 day | 741SS+35 days, | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 94 | Bay No.5: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former) (3)+(4)+(5) |) 17 days | 0 days | 17 days | 0% | Thu 10/12/20 | Thu 31/12/20 | NA | NA | Mon 14/12/20 | Tue 5/1/21 | 3 days | 1 day | 793 | | | | | | |
| 95 | Bay No. 5: Wall & Column Casted and Formwork & Falsework upto Soffit of Top Slab(6)+(7) | 27 days | 0 days | 27 days | 0% | Sat 2/1/21 | Tue 2/2/21 | NA | NA | Wed 6/1/21 | Fri 5/2/21 | 3 days | 1 day | 794 | | | | | | |
| 96 | Bay No. 5: Top Slab Construction with Formwork & Falsework Erection & Removal (8) | 17 days | 0 days | 17 days | 0% | Wed 3/2/21 | Thu 25/2/21 | NA | NA | Sat 6/2/21 | Mon 1/3/21 | 3 days | 1 day | 794,795,791 | | | | | | |
| 97 | Bay No.6 Base Slab with Blinding (1)+(2) | 15 days | 0 days | 15 days | 0% | Wed 18/11/20 | Fri 4/12/20 | NA | NA | Thu 26/11/20 | Sat 12/12/20 | 7 days | 1 day | 789 | | | | | | |
| 98 | Bay No.6: Wall & Column with Soffit (upto +4.6mPD) (include Wall Former) |) 17 davs | 0 days | 17 days | 0% | Sat 5/12/20 | Thu 24/12/20 | NA | NA | Mon 14/12/20 | Tue 5/1/21 | 7 days | 1 day | 797 | | | | | | |
| 99 | (3)+(4)+(5) Bay No. 6: Wall & Column Casted and Formwork & Falsework upto Soffit of | | - | 27 days | 0% | Mon 28/12/20 | | | NA | Wed 6/1/21 | Fri 5/2/21 | | | 798 | | | | | | |
| | Top Slab(6)+(7) | | | | | | | | | | | | | | | | | | | |
| 00 | Bay No. 6: Top Slab Construction with Formwork & Falsework Erection & Removal (8) | 17 days | 0 days | 17 days | 0% | Fri 29/1/21 | Sat 20/2/21 | NA | NA | Sat 6/2/21 | Mon 1/3/21 | 7 days | 1 day | 798,799 | | | | | | |
| 01 | Bay No.5&6: Backfilling upto +3.0mPD | 26 days | 0 days | 26 days | 0% | Fri 26/2/21 | Sat 27/3/21 | NA | NA | Tue 2/3/21 | Wed 31/3/21 | 3 days | 1 day | 790,800,796 | | | 1-111111 | | | |
|)2 | Bay No.5&6: Sheetpile Extraction (KD2) | 6 days | 0 days | 6 days | 0% | Mon 29/3/21 | Wed 7/4/21 | NA | NA | Thu 1/4/21 | Sat 10/4/21 | 3 days | 0.5 days | 801,791 | | | | | | |
|)3 N | North Approach Ramp (Bays 7&8) (Next to KTSP) | 79 days | 0 days | 79 days | 0% | Fri 29/1/21 | Sat 17/4/21 | NA | NA | Thu 11/2/21 | Sat 17/4/21 | 0 days | | | | | + | | | |
|)4 | Bay 7: Base slab | 9 days | _ | 9 days | 0% | Fri 29/1/21 | Mon 8/2/21 | NA | NA | Thu 11/2/21 | Wed 24/2/21 | | 0.5 days | 816,799 | | | | | | |
| 15 | • | | | | 0% | | Sat 20/3/21 | | NA | Mon 8/3/21 | | | | 804,819,774 | | | | | | |
| | Bay 7: Wall | 12 days | | 12 days | | Mon 8/3/21 | | | | | Sat 20/3/21 | | - | | | | | | | |
| 5 | Bay 8: Base slab | 9 days | 0 days | 9 days | 0% | Tue 9/2/21 | Mon 22/2/21 | NA | NA | Thu 25/2/21 | Sat 6/3/21 | 11 days | 0.5 days | 804,816 | | | | | | |
| 7 | Bay 8: Wall | 12 days | 0 days | 12 days | 0% | Tue 23/2/21 | Mon 8/3/21 | NA | NA | Mon 8/3/21 | Sat 20/3/21 | 11 days | 1 day | 806,819 | | | | | | |
| 18 | Bays No.7&8: Backfilling | 15 days | 0 days | 15 days | 0% | Mon 22/3/21 | Sat 10/4/21 | NA | NA | Mon 22/3/21 | Sat 10/4/21 | 0 days | 1 day | 807,805 | | | T | | | |
|)9 | Bays No.7&8: Extract Sheetpile | 6 days | 0 days | 6 days | 0% | Mon 12/4/21 | Sat 17/4/21 | NA | NA | Mon 12/4/21 | Sat 17/4/21 | 0 days | 1 day | 808,801,802 | | | 7 | | | |
| 0 (| CH1087-1189 (100m): North Approach Ramp: Parapet, Central Median & | 77 days | 0 davs | 77 days | 0% | Mon 19/4/21 | Wed 21/7/21 | NA | NA | Thu 23/9/21 | Tue 14/12/21 | 122 days | | 718 | | | * | | | |
| | Furniture CH1087-1189: Parapet (28m per day per team) x 1 team + 6 day concreting | | | 23 days | 0% | Mon 19/4/21 | Sat 15/5/21 | | NA | Thu 23/9/21 | Thu 21/10/21 | 130 days | 2 dos | 809,776,821 | | | [| | | |
| | | | | | | | | | | | | | - | | | | | | | |
| 12 | CH1087-1189: Central Median and Utilties Trough (6m per day per team) x 1 team | 25 days | 0 days | 25 days | 0% | Thu 27/5/21 | Fri 25/6/21 | NA | NA | Fri 22/10/21 | Fri 19/11/21 | 122 days | 1 day | 811,236 | | | | | | |
| 13 | CH1087-1189: Road Furniture | 21 days | 0 days | 21 days | 0% | Sat 26/6/21 | Wed 21/7/21 | NA | NA | Sat 20/11/21 | Tue 14/12/21 | 122 days | 3 days | 812,358 | | | | | | |
| 14 N | North Approach Ramp: Bay No. 1 | 135 days | 0 days | 135 days | 0% | Fri 14/8/20 | Mon 25/1/21 | NA | NA | Fri 14/8/20 | Mon 25/1/21 | 0 days | | | | 1 | | | | |
| 15 | Bay 1: Base slab | 27 days | 0 days | 27 days | 0% | Fri 14/8/20 | Mon 14/9/20 | NA | NA | Fri 14/8/20 | Mon 14/9/20 | 0 days | 0.5 days | 834 | | | | | | |
| 16 | Bay 1: Wall | 83 days | 0 days | 83 days | 0% | Fri 16/10/20 | Mon 25/1/21 | NA | NA | Fri 16/10/20 | Mon 25/1/21 | 0 days | 3 days | 819 | | | | | | |
| | Part 3G - CH1189.4 to CH1229 North Abutment | 180 days | | 180 days | 0% | Tue 15/9/20 | Mon 26/4/21 | | NA | Tue 15/9/20 | Mon 26/4/21 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 18 | North Abutment | 180 days | | 180 days | 0% | Tue 15/9/20 | Mon 26/4/21 | NA | NA | Tue 15/9/20 | Mon 26/4/21 | 0 days | | | | | | | | |
| 19 | North Abutment - Base Slab | 25 days | 0 days | 25 days | 0% | Tue 15/9/20 | Thu 15/10/20 | NA | NA | Tue 15/9/20 | Thu 15/10/20 | 0 days | 1 day | 815 | | | | | | |
| 20 | North Abutment Wall (3.85m thk) | 37 days | 0 days | 37 days | 0% | Tue 26/1/21 | Fri 12/3/21 | NA | NA | Tue 26/1/21 | Fri 12/3/21 | 0 days | 1 day | 816 | | | - | | | |
| 21 | North Abutment Wall (0.5m thk) (KD2) (KD3) | 28 days | 0 days | 28 days | 0% | Sat 13/3/21 | Sat 17/4/21 | NA | NA | Sat 13/3/21 | Sat 17/4/21 | 0 days | 1 day | 820 | | | | | | |
| 22 | Install bridge bearing | 7 days | 0 days | 7 days | 0% | Mon 19/4/21 | Mon 26/4/21 | NA | NA | Mon 19/4/21 | Mon 26/4/21 | 0 days | 0.5 days | 821,736 | | | | | | |
| | At Grade Road Works CH1000-2124 | | | | 0% | | Fri 18/2/22 | | NA | | | | | , | | | | | | |
| | | 157 days | | 157 days | | Tue 10/8/21 | | | | Thu 4/11/21 | Tue 1/3/22 | 9 days | | | | | | | | |
| 4 | CH1000-1087 At grade road works | 60 days | | 60 days | 0% | Tue 10/8/21 | Thu 21/10/21 | | NA | Wed 15/12/21 | Tue 1/3/22 | 106 days | - | 776,809,332,341 | | | | | | |
| 25 | CH1444.7-1560 At grade road works | 45 days | 0 days | 45 days | 0% | Wed 22/12/21 | Fri 18/2/22 | NA | NA | Wed 5/1/22 | Tue 1/3/22 | 9 days | 1 day | 1293,826,219 | | | | | | |
| 26 | Ch2050 to 2124: At grade road works | 50 days | 0 days | 50 days | 0% | Mon 25/10/21 | Tue 21/12/21 | NA | NA | Thu 4/11/21 | Tue 4/1/22 | 9 days | 1 day | 1438,219 | | | | | | |
| 27 Brid | ge D3 Bored Pile | 17 days | 17 days | 0 days | 0% | Tue 19/11/19 | Thu 5/12/19 | Tue 19/11/19 | Thu 5/12/19 | Tue 19/11/19 | Thu 5/12/19 | 0 days | | | | | | | | |
| | Pre-drilling Works | | 15 days | 0 days | 100% | | | | | | Thu 5/12/19 | 0 days | 0.5 dav | | | | | | | |
| | | | amjo | | 1 | | 5, 12/17 | 222 17/11/17 | 5,12(1) | | 3,12,17 | - m;0 | | | | | | | | |
| e: Rev.11 Prog v | vitn Progress | Summary | | | Inactive M | | | Duration-on | | | Start-only | | C . | | al Milestone | ♦ | | Critical Split | | |
| of 22-May-20 | Split F | Project Sur | nmary | U | Inactive Su Manual Ta | | | Manual Sun | nmary Rollup 🔳 | | Finish-only | | 3 | Deadli | ne | • | | Progress | ress | |

| | | | | | | | | | | D Project | | | | | | | | | | | | | | |
|---------------|---|----------------------------|----------------------|-----------------------|-------------------------|--------------|--------------|-----------------------|---------------|------------------------------|---------------------------|----------------|----------|----------------|---|---------------|--------|-----------------|-------------------------|---------|----------------|----|---|------------------|
| Task Na | ame | Duration | n Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 Q2 Q | 23 Q4 | 01 0 | 2021 22 Q3 | Q4 (| Q1 O2 | 2022 2 Q3 | Q4 | | 2023 Q3 Q |
| 29 | Part 3C - CH1229 to CH1279 | 823 day | rs? 137.51 days | 685.49 days? | 0% | Thu 16/5/19 | Sat 19/2/22 | Thu 16/5/19 | NA | Mon 11/11/19 | Wed 29/5/24 | 676 da | | | | | | | | | | | | |
| 30 | Abutment A01 Piling | 0 days | 0 days | 0 days | 0% | Thu 16/5/19 | Thu 16/5/19 | NA | NA | Wed 29/5/24 | Wed 29/5/24 | 1841 d | | | | | | | | | | | | l |
| 831 | CH1189: Bored Pile (A01-BP1) by Rig 1(Contractor Bear DDA Approval Risk) | 61 days | 40 days | 21 days | 66% | Tue 31/3/20 | Tue 16/6/20 | Tue 31/3/20 | NA | Tue 31/3/20 | Tue 16/6/20 | 0 days | 1 day | 839 | | | | | | | | | | |
| 832 | CH1189: Bored Pile (A01-BP2) by Rig 1 (Contractor Bear DDA Approval Risk | 29 days | 29 days | 0 days | 100% | Mon 13/4/20 | Tue 19/5/20 | Mon 13/4/20 | Tue 19/5/20 | Mon 13/4/20 | Tue 19/5/20 | 0 days | 1 day | | | | | | | | | | | |
| 833 | Abutment A01: Pile Testing (28d curing & 14 test) - 1 full-core to be carried out | t 37 days | 0 days | 37 days | 0% | Wed 17/6/20 | Fri 31/7/20 | NA | NA | Wed 17/6/20 | Fri 31/7/20 | 0 days | 5 days | 831,832 | | | | | | | | | | 1 |
| 834 | Abutment A01: Proof-drilling Works | 11 days | 0 days | 11 days | 0% | Sat 1/8/20 | Thu 13/8/20 | NA | NA | Sat 1/8/20 | Thu 13/8/20 | 0 days | 2 day | 833 | | | | | | | | | | 1 |
| 835 | Mobilization of plant and material | 6 days | 6 days | 0 days | 100% | Mon 11/11/19 | Sat 16/11/19 | Mon 11/11/19 | Sat 16/11/19 | Mon 11/11/19 | Sat 16/11/19 | 0 days | 1 days | 14,194,193 | | | | | | | | | | l |
| 336 | CH1229: Pre-drilling Works | 21 days | 21 days | 0 days | 100% | Tue 19/11/19 | Thu 12/12/19 | Tue 19/11/19 | Thu 12/12/19 | Tue 19/11/19 | Thu 12/12/19 | 0 days | 0.5 days | | | | | | | | | | | l |
| 337 | Pier P01 Piling, Pilecap & Pier | 0 days | 0 days | 0 days | 0% | Thu 16/5/19 | Thu 16/5/19 | NA | NA | Wed 29/5/24 | Wed 29/5/24 | 1841 d | | | | | | | | | | | | l |
| 338 | Bored pile (P01-BP2) @ CH1229 by Rig 1 (Contractor Bear DDA Approval | 44 days | 44 days | 0 days | 100% | Fri 17/1/20 | Wed 11/3/20 | Fri 17/1/20 | Wed 11/3/20 | Fri 17/1/20 | Wed 11/3/20 | 0 days | 0.5 days | | | | | | | | | | | 1 |
| 339 | Risk) Bored pile (P01-BP1) @ CH1229 by Rig 1 (Contractor Bear DDA Approval | 38 days | 38 days | 0 days | 100% | Mon 24/2/20 | Wed 8/4/20 | Mon 24/2/20 | Wed 8/4/20 | Mon 24/2/20 | Wed 8/4/20 | 0 days | 0.5 days | 838SS+30 days | | | | | | | | | | 1 |
| 40 | Risk) Pier P01: Pile Testing (18d curing & 14 test) | 45 days | 0 days | 45 days | 0% | Sat 23/5/20 | Thu 16/7/20 | NA | NA | Mon 6/7/20 | Wed 26/8/20 | 35 days | 3 days | 839 | ┤ ╁ ╢ | | | | | | | | | l |
| 341 | Pier P01: Proof-drilling Works | 10 days | 0 days | 10 days | 0% | Fri 17/7/20 | Tue 28/7/20 | NA | NA | Thu 27/8/20 | Mon 7/9/20 | 35 days | 1 day | 839,840 | | | | | | | | | | l |
| 842 | Pile Cap P01 @ CH1229 | 98 days | 0 days | 98 days | 0% | Mon 15/6/20 | Sun 11/10/20 | NA | NA | Sat 29/8/20 | Fri 13/11/20 | 28 days | | | ┤│┟╀ | | | | | | | | | l |
| 343 | Excavation with Shoring Installation ~2600m3 Prod. Rate: 160m3/day/team | | | 17 days | 0% | Wed 29/7/20 | Mon 17/8/20 | | NA | Tue 8/9/20 | Sat 26/9/20 | 35 days | 1 day | 841 | | 1 | | | | | | | | l |
| 844 | Pilecap - Formwork Design and Method Statement Submission | | 0 days | 0 days | 0% | Mon 15/6/20 | Mon 15/6/20 | | NA | Sat 29/8/20 | Sat 29/8/20 | 75 days | _ | | ♦ 15/ | /6 | | | | | | | | |
| 845 | Pilecap - Formwork Design and Method Statement Comment & Appraoval | | 0 days | 30 days | 0% | Mon 15/6/20 | Tue 14/7/20 | | NA | Sat 29/8/20 | Sun 27/9/20 | 75 days | 1 | 844 | | | | | | | | | | |
| 846 | Pilecap structure | | 0 days | 24 days | 0% | Tue 18/8/20 | Mon 14/9/20 | | NA | Mon 28/9/20 | Wed 28/10/20 | | | 845,843 | | | | | | | | | | l |
| 340 | Backfill | | 0 days | 14 days | 0% | Tue 15/9/20 | Wed 30/9/20 | | NA | Thu 29/10/20 | Fri 13/11/20 | 35 days | | 846 | | | | | | | | | | l |
| 848 | Pier - Formwork Design and Method Statement Submission | | 0 days | | 0% | Mon 7/9/20 | Mon 7/9/20 | | NA NA | Sat 10/10/20 | Sat 10/10/20 | 33 days | | 010 | | | | | | | | | | |
| 348 | _ | | | 0 days | 0% | Mon 7/9/20 | Sun 11/10/20 | | NA NA | Sat 10/10/20 Sat 10/10/20 | Fri 13/11/20 | | | 848 | | | | | | | | | | l |
| | Pier - Formwork Design and Method Statement Comment & Appraoval | | 0 days | 35 days | | | | | | | | 33 days | | | | | | | | | | | | l |
| 350 | Pier P01 @ CH1229 | | 0 days | 49 days | 0% | Wed 28/10/20 | | | NA | Sat 14/11/20 | Wed 13/1/21 | 15 days | - | 847,211,849 | | | | | | | | | | 1 |
| 351 | CH1269: Pre-drilling Works | | 30 days | 0 days | 0% | Wed 20/11/19 | | | | Wed 20/11/19 | Thu 19/12/19 | | | 835,836 | | | | | | | | | | l |
| 352 | Abandon the Installed defected Bored pile (P02-BP2) @ CH1269 | 35 days | 35 days | 0 days | 100% | Tue 11/2/20 | | Tue 11/2/20 | | | Sun 22/3/20 | | 0.5 days | 851 | | | | | | | | | | l |
| 353 | Pier P02 Piling, Pilecap & Pier | 1 day? | 0 days | 1 day? | 0% | Thu 16/5/19 | Thu 16/5/19 | NA | NA | Wed 29/5/24 | Wed 29/5/24 | 1840 d | | | | | | | | | | | | l |
| 354 | Predrilling works for Bored pile (P02-BP2)(Abandoned) @ CH1269 | | 0 days | 11 days | 0% | Wed 3/6/20 | Mon 15/6/20 | NA | NA | Tue 9/6/20 | Sat 20/6/20 | 5 days | 0.5 days | 852 | | | | | | | | | | l |
| 355 | Casing Extraction for Abandoned P02-BP2 Bored Pile | 20 days | 0 days | 20 days | 0% | Sat 20/6/20 | Wed 15/7/20 | NA | NA | Mon 22/6/20 | Thu 16/7/20 | 1 day | 1 day | 854 | | | | | | | | | | l |
| 856 | Bored pile (P02-BP2)(Remedial) @ CH1269 | 30 days | 0 days | 30 days | 0% | Thu 16/7/20 | Wed 19/8/20 | NA | NA | Fri 17/7/20 | Thu 20/8/20 | 1 day | 2 days | 855,854 | | h | | | | | | | | l |
| 357 | Bored pile (P02-BP1) @ CH1269 (Contractor Bear DDA Approval Risk) (Rig 2 | 26 days | 26 days | 0 days | 100% | Fri 21/2/20 | Sat 18/4/20 | Fri 21/2/20 | Sat 18/4/20 | Fri 21/2/20 | Sat 18/4/20 | 0 days | 0.5 days | 851 | | | | | | | | | | l |
| 358 | Pile Testing (18d curing & 14 test) | 32 days | 0 days | 32 days | 0% | Thu 20/8/20 | Fri 25/9/20 | NA | NA | Wed 2/9/20 | Sat 10/10/20 | 11 days | 0.5 days | 852,857,856 | | | | | | | | | | l |
| 359 | Proof-drilling Works | 9 days | 0 days | 9 days | 0% | Sat 26/9/20 | Thu 8/10/20 | NA | NA | Mon 12/10/20 | Wed 21/10/20 | 11 days | 1 day | 839,840,858 | | THE L | | | | | | | | l |
| 860 | Pile Cap ELS - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 29/6/20 | Mon 29/6/20 | NA | NA | Tue 22/9/20 | Tue 22/9/20 | 85 days | 1 day | | 4 29 | 9/6 | | | | | | | | l |
| 861 | Pile Cap ELS - Temp. Works Design and Method Statement Comment & | 30 days | 0 days | 30 days | 0% | Mon 29/6/20 | Tue 28/7/20 | NA | NA | Tue 22/9/20 | Wed 21/10/20 | 85 days | 1 day | 860 | | | | | | | | | | l |
| 862 | Appraoval Pile Cap P02 @ CH1270 | 120 day | s 0 days | 120 days | 0% | Mon 24/8/20 | Sat 16/1/21 | NA | NA | Thu 22/10/20 | Fri 29/1/21 | 11 days | | | | | 70 | | | | | | | l |
| 863 | Drive sheetpile (~75m). Prod. Rate: 5m/day/side/team | 17 days | 0 days | 17 days | 0% | Fri 9/10/20 | Thu 29/10/20 |) NA | NA | Thu 22/10/20 | Wed 11/11/20 | 11 days | 2 days | 861,858,140,85 | 9 | | | | | | | | | l |
| 364 | Excavation ~1677m3 & lateral support. Prod. Rate: 100m3/day/team | 18 days | 0 days | 18 days | 0% | Fri 30/10/20 | Thu 19/11/20 |) NA | NA | Thu 12/11/20 | Wed 2/12/20 | 11 days | 1 days | 863 | $- \ \cdot \ \cdot \ $ | | | | | | | | | l |
| 365 | Pilecap Formwork Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 24/8/20 | Mon 24/8/20 | NA | NA | Thu 12/11/20 | Thu 12/11/20 | 80 days | 1 day | | $\ \cdot\ $ | 4 24/8 | | | | | | | | l |
| 366 | Pilecap Formwork - Design and Method Statement Comment & Appraoval | 21 days | 0 days | 21 days | 0% | Mon 24/8/20 | Sun 13/9/20 | NA | NA | Thu 12/11/20 | Wed 2/12/20 | 80 days | 1 day | 865 | $\parallel \parallel \parallel$ | | | | | | | | | l |
| 367 | Pilecap structure | 36 days | 0 days | 36 days | 0% | Fri 20/11/20 | Mon 4/1/21 | NA | NA | Thu 3/12/20 | Sat 16/1/21 | 11 days | 1 day | 866,864,863 | $\left\{ \left[$ | | | | | | | | | l |
| 368 | Backfill and extract sheet pile | | 0 days | 11 days | 0% | Tue 5/1/21 | Sat 16/1/21 | NA | NA | Mon 18/1/21 | Fri 29/1/21 | 11 days | | 867 | $\ \ \ $ | | | | | | | | | l |
| 69 | Pier - Temp. Works Design and Method Statement Submission | | 0 days | 0 days | 0% | Mon 7/9/20 | Mon 7/9/20 | | NA | Thu 31/12/20 | Thu 31/12/20 | | | | $\parallel \parallel \parallel$ | 7/9 | | | | | | | | l |
| 70 | Pier - Temp. Works Design and Method Statement Comment & Appraoval | | 0 days | 30 days | 0% | Mon 7/9/20 | Tue 6/10/20 | | NA | Thu 31/12/20 | Fri 29/1/21 | 115 days | | 869 | | 411 | | | | | | | | |
| 370 | Pier P02 @ CH1270 | | 0 days | 49 days | 0% | Mon 18/1/21 | Thu 18/3/21 | | NA | Sat 30/1/21 | Wed 31/3/21 | 11 days | | 868,211,870 | - | | | | | | | | | |
| | | | | | | | | | | | | | 1 uay | 000,211,070 | | | | | | | | | | l |
| 872 | Stage 1: Bridge deck between CH1229-1311 | | o days | 340 days | 0% | Mon 2/11/20 | | | NA | Tue 19/1/21 | Wed 29/12/21 | | 1 d | | | | | | | | | | | |
| 873 | Bridge Deck - Temp. Works Design and Method Statement Submission | o days | 0 days | 0 days | 0% | Mon 2/11/20 | Mon 2/11/20 | INA | NA | Tue 19/1/21 | Tue 19/1/21 | 78 days | 1 day | | | 2/ | | | | | | | | <u> </u> |
| tle: Rev.11 F | Prog with Progress Task | Summary | | | Inactive Mi | | | Duration-or | | | Start-only | | [| | temal Mileston | | | | Critical Split | t | | | | |
| s of 22-May | Split | Project Sur Inactive Ta | | l . | Inactive Su Manual Tas | | | Manual Sur Manual Sur | mmary Rollup | | Finish-only External Tas | -1 |] | | adline itical | 4 | | | Progress Manual Prog | aronn | | | _ | |

| Task Nam | | | | | | | | | | TD Project | | | | | | | | | | | | | |
|------------------|---|-------------|--------------------|-----------------------|------------------------|--------------------------|--------------|-----------------------|--------------|---------------|----------------------------|--------------------|------------------|----------------------|--------------|---------|---------------------|----------|-----------------|----|-------|----------------|----------|
| Task Nam | e | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | sh Late Start | Late Finish | Total TF Slack | A Predecessor | | 03 04 | O1 O2 | 03 Q4 | 01 0 | 2022 Q2 Q3 | 04 | | 2023 2 Q3 | 04 |
| 874 | Bridge Deck - Temp. Works Design and Method Statement Comment & | 35 days | | 35 days | 0% | Mon 2/11/20 | Sun 6/12/20 | NA | NA | Tue 19/1/21 | Mon 22/2/21 | 78 days 1 d | lay 873 | Q2 | | | | | | | Q1 Q2 | | <u>V</u> |
| 875 | Appraoval CH1229-1311: Deck Falsework erection Part 1 | 32 days | 0 days | 32 days | 0% | Tue 23/2/21 | Wed 31/3/21 | NA | NA | Tue 23/2/21 | Wed 31/3/21 | 0 days 1 d | lay 874,922 | | | | | | | | | | |
| 876 | CH1229-1311: Deck Falsework erection Part 2 | 28 days | 0 days | 28 days | 0% | Thu 1/4/21 | Fri 7/5/21 | NA | NA | Thu 1/4/21 | Fri 7/5/21 | 0 days 3 d | lays 875,871 | | | | | | | | | 1 | |
| 877 | CH1229-1311: Structure deck | 50 days | 0 days | 50 days | 0% | Wed 7/4/21 | Sat 5/6/21 | NA | NA | Wed 7/4/21 | Sat 5/6/21 | 0 days 2 d | lay 475,483,736 | 5,875 | | Time | | | | | | 1 | |
| 878 | CH1229-1311: Prestressing | 18 days | | 18 days | 0% | Thu 24/6/21 | Thu 15/7/21 | NA | NA | Thu 24/6/21 | Thu 15/7/21 | 0 days 0.5 | day 877FS+14 d | avs | | | | | | | | 1 | |
| 879 | CH1229-1311: Falsework Under Main Deck Removal | 12 days | | 12 days | 0% | Fri 16/7/21 | Thu 29/7/21 | | NA | Fri 16/7/21 | Thu 29/7/21 | | day 878 | | | | | | | | | 1 | |
| | | | | | | | Thu 7/10/21 | | | | | - | | | | | | | | | | 1 | |
| 880 | CH1229-1311: Utility Trough (0.67m per day per team) x 4 team | 70 days | | 70 days | 0% | Fri 16/7/21 | | | NA | Thu 22/7/21 | Wed 13/10/21 | | lays 219,878 | | | | | | | | | 1 | |
| 881 | CH1229-1311: Central Median (6m per day per team) x 2 team | 31 days | | 31 days | 0% | Fri 16/7/21 | Fri 20/8/21 | | NA | Sat 2/10/21 | Mon 8/11/21 | 65 days 3 d | lays 878 | | | | | | | | | 1 | |
| 882 | CH1229-1311: Parapet (28m per day per team) x 2 team + 6x2 day concreting | ng 21 days | 0 days | 21 days | 0% | Fri 8/10/21 | Tue 2/11/21 | NA | NA | Fri 15/10/21 | Mon 8/11/21 | 5 days 3 d | lays 880 | | | | 11- | | | | | 1 | |
| 883 | CH1229-1311: Removal of Falsework (KD6) | 42 days | 0 days | 42 days | 0% | Wed 3/11/21 | Tue 21/12/21 | NA | NA | Tue 9/11/21 | Wed 29/12/21 | 5 days 6 d | lays 880,882,881 | | | | | | | | | 1 | |
| 884 | CH1229-1311: Road Furniture | 15 days | 0 days | 15 days | 0% | Sat 21/8/21 | Tue 7/9/21 | NA | NA | Sat 27/11/21 | Tue 14/12/21 | 81 days 1 d | lay 881,358 | | | | 1111 | | | | | 1 | |
| 885 | Part 3D - CH1279 to CH1311 | 196 days | 0 days | 196 days | 0% | Mon 7/6/21 | Sat 29/1/22 | NA | NA | Wed 16/6/21 | Fri 11/2/22 | 7 days | | | | | | | | | | 1 | |
| 886 | Stage 1: Bridge deck between CH1269-1311 | 196 days | 0 days | 196 days | 0% | Mon 7/6/21 | Sat 29/1/22 | NA | NA | Wed 16/6/21 | Fri 11/2/22 | 7 days | | | | | | | | | | 1 | |
| 887 | CH1269-1311: Structure deck | 50 days | 0 days | 50 days | 0% | Mon 7/6/21 | Thu 5/8/21 | NA | NA | Wed 16/6/21 | Fri 13/8/21 | 7 days 2 d | lay 475,483,736 | 5,877 | | | | | | | | | |
| 388 | Prestressing CH1269 - 1311 Bridge Spans | 21 days | 0 days | 21 days | 0% | Mon 23/8/21 | Wed 15/9/21 | NA | NA | Tue 31/8/21 | Fri 24/9/21 | 7 days 3 d | lay 887FS+14 d | ays | | | Y | | | | | | |
| 889 | CH1269-1311: Utility Trough (0.67m per day per team) x 2 team | 64 days | | 64 days | 0% | Thu 16/9/21 | Thu 2/12/21 | NA | NA | Sat 25/9/21 | Fri 10/12/21 | | day 888,219 | | | | | | | | ı | | |
| 890 | CH1269-1311: Parapet (28m per day per team) x 1 team + 6 day | 17 days | | 17 days | 0% | Fri 3/12/21 | Wed 22/12/2 | | NA | Sat 11/12/21 | Mon 3/1/22 | 1 | lays 889 | - | | | | | | | | | |
| 891 | concreting CH1269-1311: Central Median (6m per day per team) x 1 team | 15 days | | 15 days | 0% | Thu 23/12/21 | Wed 12/1/22 | | NA | Wed 5/1/22 | Fri 21/1/22 | 8 days 1 d | | | | | | , | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | |
| 892 | CH1269-1311: Road Furniture | 15 days | | 15 days | 0% | Thu 13/1/22 | Sat 29/1/22 | | NA | Sat 22/1/22 | Fri 11/2/22 | 8 days 1 d | lay 891,358 | | | | | | | | | 1 | |
| 893 | Stage2: Bridge deck between CH1189-1229 | 823 days | | 823 days? | 0% | Thu 16/5/19 | Sat 19/2/22 | | NA | Tue 27/4/21 | Wed 29/5/24 | 579 da | | | | | | | | | | 1 | |
| 894 | CH1189-1229: Deck Falsework erection | 1 day? | 0 days | 1 day? | 0% | Thu 16/5/19 | Thu 16/5/19 | NA | NA | Wed 29/5/24 | Wed 29/5/24 | 1840 d | | | | | | | | | | 1 | |
| 895 | CH1189-1229: Deck Falsework erection | 22 days | 0 days | 22 days | 0% | Tue 27/4/21 | Mon 24/5/21 | NA | NA | Tue 27/4/21 | Mon 24/5/21 | 0 days 1 d | lay 850,822 | | | | | | | | | 1 | |
| 396 | CH1189-1229: Structure deck | 27 days | 0 days | 27 days | 0% | Tue 25/5/21 | Fri 25/6/21 | NA | NA | Tue 25/5/21 | Fri 25/6/21 | 0 days 2 d | lay 895,475,483 | | | | | | | | | 1 | |
| 897 | CH1189-1229: Prestressing | 18 days | 0 days | 18 days | 0% | Wed 14/7/21 | Tue 3/8/21 | NA | NA | Wed 14/7/21 | Tue 3/8/21 | 0 days 1 d | lay 896FS+14 d | lays | | | i. | | | | | 1 | |
| 898 | CH1189-1229: Falsework Under Main Deck Removal | 15 days | 0 days | 15 days | 0% | Wed 4/8/21 | Fri 20/8/21 | NA | NA | Wed 4/8/21 | Fri 20/8/21 | 0 days 3 d | lays 878,897 | | | | * | | | | | 1 | |
| 399 | CH1189-1229: Utility Trough (0.67m per day per team) x 2 team | 63 days | 0 days | 63 days | 0% | Wed 4/8/21 | Tue 19/10/21 | NA | NA | Wed 13/10/21 | Tue 28/12/21 | 58 days 3 d | lays 219,897 | | | | 7 | | | | | 1 | |
| 900 | CH1189-1229 : Central Median (6m per day per team) x 1 team | 16 days | 0 days | 16 days | 0% | Sat 21/8/21 | Wed 8/9/21 | NA | NA | Fri 21/1/22 | Fri 11/2/22 | 125 days 3 d | lay 897,881 | | | | <u> </u> | 4 | | | | 1 | |
| 901 | CH1189-1229: Parapet (28m per day per team) x 1 team + 6 day concreting | 20 days | 0 days | 20 days | 0% | Wed 3/11/21 | Thu 25/11/21 | NA | NA | Mon 17/1/22 | Fri 11/2/22 | 61 days 5 d | lay 899,882 | | | | — | 4.1111 | | | | 1 | |
| 902 | CH1189-1229: Road Furniture | 15 days | 0 days | 15 days | 0% | Mon 31/1/22 | Sat 19/2/22 | NA | NA | Sat 12/2/22 | Tue 1/3/22 | 8 days 1 d | lay 900,892,358 | 3.901 | | | | | | | | 1 | |
| | Part 3E - CH1311 to CH1372 | | 94.1 days | 557.9 days | 0% | | | Tue 12/11/19 | | Tue 12/11/19 | Wed 29/5/24 | 698 days | | | | | | | | | | 1 | |
| 904 | Pre-drilling Works | | 31 days | | 0% | | | Tue 12/11/19 | | | Tue 17/12/19 | | 1 | | | | | | | | | 1 | |
| | | | | 0 days | | | | | | | | - | | | | | | | | | | 1 | |
| 905 | Bored pile (P03-BP1) @ CH1311 (Rig 2) (Contractor Bear DDA Design Risk) | | | 0 days | 100% | Tue 17/3/20 | Fri 8/5/20 | Tue 17/3/20 | | Tue 17/3/20 | Fri 8/5/20 | 0 days 0.5 | | | | | | | | | | 1 | |
| 906 | Bored pile (P03-BP2) @ CH1311 (Contractor Bear DDA Design Risk) (Rig 2) | 36 days | 25 days | 11 days | 69% | Wed 22/4/20 | Thu 4/6/20 | Wed 22/4/20 | | Wed 22/4/20 | Thu 4/6/20 | 0 days 3 d | | | | | | | | | | 1 | |
| 907 | Pile Testing (18 curing & 14 test) | 35 days | 0 days | 35 days | 0% | Sat 6/6/20 | Sat 18/7/20 | NA | NA | Sat 6/6/20 | Sat 18/7/20 | 0 days 3 d | 906FS+1 da | y,90. | | | | | | | | 1 | |
| 908 | Proof-drilling Works | 11 days | 0 days | 11 days | 0% | Mon 20/7/20 | Fri 31/7/20 | NA | NA | Mon 20/7/20 | Fri 31/7/20 | 0 days 2 d | lays 907 | | | | | | | | | 1 | |
| 909 | Pile Cap P03 @ CH1311 | 76 days | 0 days | 76 days | 0% | Tue 7/7/20 | Mon 5/10/20 | NA | NA | Fri 31/7/20 | Wed 29/5/24 | 21 days | | | | | | | | | | 1 | |
| 910 | Pile Cap @ CH1311 by Open Cut | 46 days | 0 days | 46 days | 0% | Sat 1/8/20 | Wed 23/9/20 | NA | NA | Wed 28/10/20 | Sat 19/12/20 | 72 days | 908 | | | | | | | | ı | | |
| 911 | Pilecap Formwork Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Tue 7/7/20 | Tue 7/7/20 | NA | NA | Tue 30/4/24 | Tue 30/4/24 | 1393 1 d | lay | | 717 | | | | | | | | |
| 912 | Pilecap Formwork Design and Method Statement Comment & Appraoval | 30 days | 0 days | 30 days | 0% | Tue 7/7/20 | Wed 5/8/20 | NA | NA | Tue 30/4/24 | Wed 29/5/24 | 1393 1 d | lay 911 | | | | | | | | | | |
| 913 | Excavation with Shoring Installation ~2600m3 Prod. Rate: 160m3/day/team | 17 days | 0 days | 17 days | 0% | Sat 1/8/20 | Thu 20/8/20 | NA | NA | Sat 1/8/20 | Thu 20/8/20 | days 0 days 1 d | lay 908 | - | | | | | | | ı | | |
| 914 | Pilecap Formwork - design and Method Statement Submission | 0 days | | 0 days | 0% | Mon 20/7/20 | Mon 20/7/20 | | NA | Fri 31/7/20 | Fri 31/7/20 | 11 days 1 d | | - | 20/7 | | | | | | | | |
| 915 | Pilecap Formwork - Design and Method Statement Comment & Appraoval | 21 days | | 21 days | 0% | Mon 20/7/20 | Sun 9/8/20 | | NA | Fri 31/7/20 | Thu 20/8/20 | 11 days 1 d | | | | | | | | | | | |
| 916 | | | | 24 days | 0% | Fri 21/8/20 | Thu 17/9/20 | | NA | Fri 21/8/20 | Thu 17/9/20 | | | | | | | | | | | | |
| | Pilecap structure | 24 days | | | | | | | | | | | | | | | | | | | | | |
| 917 | Backfill | 13 days | | 13 days | 0% | Fri 18/9/20 | Mon 5/10/20 | | NA | Fri 18/9/20 | Mon 5/10/20 | 0 days 1 d | | | | | | | | | | | |
| 918 | Agree Interface Coordination Plan with CKP-KTW (HY/2014/07) | 14 days | 0 days | 14 days | 0% | Tue 6/10/20 | Wed 21/10/20 | U NA | NA | Tue 6/10/20 | Wed 21/10/20 | 0 days 0 d | lays 917 | | 21/1 | 0 | | | | | | | |
| itle: Rev.11 Pro | og with Progress | Summary | | | Inactive M | filestone \diamondsuit | | Duration-on | | | Start-only | Е | | External Milest | one 🔷 | | Critical Sp | | | | | | |
| s of 22-May-2 | Cnlit | Project Sun | nmary | | Inactive S Manual Ta | | | Manual Sur Manual Sur | nmary Rollup | | Finish-only External Tasi | 3 | | Deadline Critical | • | | Progress Manual Pr | | | | _ | | |

| | | | | | | | | | | TD Project | | | | | | | | | | | | | |
|----------------|---|-----------------------------|--------------------|-----------------------|----------------------------|---------------|--------------|---|--------------|--------------|----------------------------|--------------------|-----------------|--------------|----------------|--|---|------------------------|-----|-----------------|-------|------------------|----------|
| Task Na | me | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | h Late Start | Late Finish | Total TRA Slack | Predecessors | 2020 O2 C | 03 Q4 | | 2021 O3 | Q4 Q1 | |)22 Q3 Q | 04 01 | 2023 Q2 C | |
| 919 | Allow access to CKR-KTW contractor for sheet pile wall installation. PS App.1.18 2.7(A)(c) | 60 days | | 60 days | 0% | Thu 22/10/20 | Sun 20/12/20 | NA | NA | Thu 22/10/20 | Sun 20/12/20 | 0 days 0 days | 917,918 | | | ¥. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | | | | | <u> </u> |
| 920 | Pier - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 12/10/20 | Mon 12/10/20 | 0 NA | NA | Mon 16/11/20 | Mon 16/11/20 | 35 days 1 day | | 1 | ♦ 12/16 | | | | | | | | |
| 921 | Pier - Temp. Works Design and Method Statement Comment & Approval | 35 days | 0 days | 35 days | 0% | Mon 12/10/20 | Sun 15/11/20 | NA | NA | Mon 16/11/20 | Sun 20/12/20 | 35 days 1 day | 920 | | | | | | | | | | |
| 922 | Pier P03 @ CH1311 | 49 days | 0 days | 49 days | 0% | Mon 21/12/20 | Mon 22/2/21 | NA | NA | Mon 21/12/20 | Mon 22/2/21 | 0 days 1 day | 916,919,850SS+ | | | | | | | | | | |
| 923 | Pre-drilling Works | 15 days | 15 days | 0 days | 100% | Wed 4/12/19 | Wed 18/12/19 | 9 Wed 4/12/19 | Wed 18/12/. | Wed 4/12/19 | Wed 18/12/19 | 0 days 0.5 day | S | | | | | | | | | | |
| 924 | Diversion of existing 150mm dia. Watermain (agreed) | | 42 days | 12 days | 78% | Sat 28/3/20 | Fri 5/6/20 | Sat 28/3/20 | NA | Sat 28/3/20 | Sat 14/11/20 | 134 days 2 days | | | | | | | | | | | |
| 925 | Bored pile (P04-BP2) @ CH1351 (Rig 2) | 52 days | | 51 days | 0% | Fri 22/5/20 | Wed 21/10/20 | 0 Fri 22/5/20 | NA | Fri 22/5/20 | Tue 19/1/21 | 73 days 3 days | 923,856 | | | | | | | | | | |
| 926 | Bored pile (P04-BP1) @ CH1351 (Rig 2) | 53 days | | 53 days | 0% | Tue 11/8/20 | Tue 13/10/20 | | NA | Mon 16/11/20 | Tue 19/1/21 | 80 days 3 days | 202,924,923,925 | | | | | | | | | | |
| 927 | Pile Testing (14d curing & 14 test) | 35 days | | 35 days | 0% | Thu 22/10/20 | Wed 2/12/20 | | NA | Wed 20/1/21 | Thu 4/3/21 | 73 days 3 days | 926,925 | | | | | | | | | | |
| 928 | Proof-drilling Works | | | | 0% | | Tue 15/12/20 | | NA | Fri 5/3/21 | Wed 17/3/21 | 73 days 2 days | | | | | | | | | | | |
| | | 11 days | | 11 days | | | | | | | | | | | | | | | | | | | |
| 929 | Pile Cap P04 @ CH1351 with ELS | 47 days | - | 47 days | 0% | Wed 16/12/20 | | | NA | Thu 1/4/21 | Mon 31/5/21 | 85 days | 933SS,928 | | | | | | | | | | |
| 930 | Pile Cap @ CH1351 | 97 days | | 97 days | 0% | Mon 2/11/20 | Mon 1/3/21 | | NA | Tue 16/2/21 | Mon 31/5/21 | 73 days | | | | $\mathbb{T} $ | | | | | | | |
| 931 | Pilecap ELS- Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 2/11/20 | Mon 2/11/20 | NA | NA | Tue 16/2/21 | Tue 16/2/21 | 106 days 1 day | | | 2/11 | | | | | | | | |
| 932 | Pilecap ELS - Design and Method Statement Comment & Appraoval | 30 days | 0 days | 30 days | 0% | Mon 2/11/20 | Tue 1/12/20 | | NA | Tue 16/2/21 | Wed 17/3/21 | 106 days 1 day | 931 | | | | | | | | | | |
| 933 | Drive sheetpile (~75m). Prod. Rate: 10m/day/side/team | 10 days | 0 days | 10 days | 0% | Wed 16/12/20 | Tue 29/12/20 | NA | NA | Thu 18/3/21 | Mon 29/3/21 | 73 days 2 days | 932,928 | | | | | | | | | | |
| 934 | Excavation with Shoring Installation ~2600m3 Prod. Rate: 160m3/day/team | 19 days | 0 days | 19 days | 0% | Wed 30/12/20 | Thu 21/1/21 | NA | NA | Tue 30/3/21 | Fri 23/4/21 | 73 days 2 day | 933 | | | | | | | | | | |
| 935 | Pilecap Formwork- Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Tue 1/12/20 | Tue 1/12/20 | NA | NA | Thu 25/3/21 | Thu 25/3/21 | 114 days 1 day | | | 1/1 | 12 | | | | | | | |
| 936 | Pilecap Formworks - Design and Method Statement Comment & Appraoval | 30 days | 0 days | 30 days | 0% | Tue 1/12/20 | Wed 30/12/20 | 0 NA | NA | Thu 25/3/21 | Fri 23/4/21 | 114 days 1 day | 935 | 1 | | | | | | | | | |
| 937 | Pile Cap structure | 19 days | 0 days | 19 days | 0% | Fri 22/1/21 | Tue 16/2/21 | NA | NA | Sat 24/4/21 | Mon 17/5/21 | 73 days 1 day | 846,936,934 | 1 | | | | | | | | | |
| 938 | Backfill and extract sheet pile | 11 days | 0 days | 11 days | 0% | Wed 17/2/21 | Mon 1/3/21 | NA | NA | Tue 18/5/21 | Mon 31/5/21 | 73 days 2 days | 937 | | | | | | | | | | |
| 939 | Pier - Temporary Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 4/1/21 | Mon 4/1/21 | NA | NA | Sun 2/5/21 | Sun 2/5/21 | 118 days 1 day | | | | 4/1 | | | | | | | |
| 940 | Pier - Temporary Design and Method Statement Comment & Appraoval | 30 days | 0 days | 30 days | 0% | Mon 4/1/21 | Tue 2/2/21 | NA | NA | Sun 2/5/21 | Mon 31/5/21 | 118 days 1 day | 939 | | | | | | | | | | |
| 941 | Pier P04 @ CH1351 | 49 days | 0 days | 49 days | 0% | Tue 2/3/21 | Fri 30/4/21 | NA | NA | Tue 1/6/21 | Thu 29/7/21 | 73 days 1 day | 938,922,211,940 | | | | | | | | | | |
| 942 | Stage 3: Bridge deck between CH1311-1351 | 145 days | | 145 days | 0% | Fri 30/7/21 | Fri 21/1/22 | NA | NA | Fri 30/7/21 | Sat 29/1/22 | 0 days 1 day | | | | | | | | | | | |
| 943 | CH1311-1351: Deck Falsework erection | 21 days | - | 21 days | 0% | Fri 30/7/21 | Mon 23/8/21 | | NA | Fri 30/7/21 | Mon 23/8/21 | 0 days 3 days | 941,922,879 | | | | | | | | | | |
| 944 | CH1311-1351: Structure deck | 30 days | | 30 days | 0% | Tue 24/8/21 | Tue 28/9/21 | | NA | Tue 24/8/21 | Tue 28/9/21 | 0 days 5 days | 475,483,736,896 | | | | | | | | | | |
| 945 | CH1311-1351: Prestressing | 21 days | - | 21 days | 0% | Mon 18/10/21 | | | NA | Mon 18/10/21 | | 0 days 3 days | | | | | | | | | | | |
| 946 | CH1311-1351: Utility Trough (0.67m per day per team) x 4 team | | | | 0% | Thu 11/11/21 | | | NA | Fri 26/11/21 | Mon 3/1/22 | 13 days 0.5 days | | | | | | | | | | | |
| | | 30 days | | 30 days | | | | | | | | | | | | | | | | | | | |
| 947 | CH1311-1351: Central Median (6m per day per team) x 2 team | 15 days | | 15 days | 0% | Thu 11/11/21 | | | NA | Wed 5/1/22 | Fri 21/1/22 | 44 days 3 days | | | | | | | | | | | |
| 948 | CH1311-1351: Parapet (28m per day per team) x 2 team + 6 day concreting | 16 days | | 16 days | 0% | Thu 23/12/21 | | | NA | Tue 4/1/22 | Fri 21/1/22 | 7 days 1 day | 945,888,890,946 | | | | | | | | | | |
| 949 | CH1311-1351: Road Furniture | 7 days | | 7 days | 0% | Fri 14/1/22 | Fri 21/1/22 | | NA | Sat 22/1/22 | Sat 29/1/22 | 7 days 1 day | 947,358,948 | | | | | | | | | | |
| 950 | Part 1 - CH1372 to CH1386 | 149 days | s 0 days | 149 days | 0% | Mon 23/8/21 | Tue 22/2/22 | NA | NA | Mon 23/8/21 | Tue 1/3/22 | 0 days | | | | | | | | | | | |
| 951 | Bridge deck between CH1351-1386 | 149 days | s 0 days | 149 days | 0% | Mon 23/8/21 | Tue 22/2/22 | NA | NA | Mon 23/8/21 | Tue 1/3/22 | 0 days | | | | | | | | | | | |
| 952 | CH1351-1386: Deck Falsework erection | 22 days | 0 days | 22 days | 0% | Mon 23/8/21 | Thu 16/9/21 | NA | NA | Mon 23/8/21 | Thu 16/9/21 | 0 days 4 days | 941,922,898FS+ | | | | | | | | | | |
| 953 | CH1351-1386: Structure deck | 30 days | 0 days | 30 days | 0% | Fri 17/9/21 | Mon 25/10/2 | 1 NA | NA | Fri 17/9/21 | Mon 25/10/21 | 0 days 5 days | 952,736,976 | | | | | | | | | | |
| 954 | CH1351-1386: Prestressing | 14 days | 0 days | 14 days | 0% | Thu 11/11/21 | Fri 26/11/21 | NA | NA | Thu 11/11/21 | Fri 26/11/21 | 0 days 5 days | 953FS+14 days, | | | | | T | | | | | |
| 955 | CH1351 - CH1386: Utility Trough (0.67m per day per team) x 4 team | 30 days | 0 days | 30 days | 0% | Sat 27/11/21 | Tue 4/1/22 | NA | NA | Sat 27/11/21 | Tue 4/1/22 | 0 days 3 days | 219,954 | | | | | | | | | | |
| 956 | CH1351 - CH1386: Central Median (6m per day per team) x 1 team | 15 days | 0 days | 15 days | 0% | Sat 27/11/21 | Tue 14/12/21 | NA | NA | Sat 27/11/21 | Tue 14/12/21 | 0 days 3 days | 954 | | | | | T | | | | | |
| 957 | CH1351 - CH1386: Parapet (28m per day per team) x 1 team + 6 day | 20 days | 0 days | 20 days | 0% | Wed 5/1/22 | Thu 27/1/22 | NA | NA | Wed 12/1/22 | Mon 7/2/22 | 6 days 4 days | 955 | | | | | | | | | | |
| 958 | concreting CH1351-1386 Falsework removal | 19 days | 0 days | 19 days | 0% | Fri 28/1/22 | Tue 22/2/22 | NA | NA | Tue 8/2/22 | Tue 1/3/22 | 6 days 1 day | 955,957 | | | | | | | | | | |
| 959 | CH1351 - CH1386: Road Furniture (Section 1) | 8 days | 0 days | 8 days | 0% | Fri 28/1/22 | Wed 9/2/22 | NA | NA | Mon 14/2/22 | Tue 22/2/22 | 11 days 2 day | 956,358,957 | | | | | | | | | | |
| 960 | Part 1 - CH1386 to CH1394 South Abutment | 352 days | | 352 days | 0% | Fri 3/7/20 | Sat 4/9/21 | | NA | Sat 25/7/20 | Thu 16/9/21 | 10 days | | | | | | | | | | | |
| 961 | Bored Pile (A02-BP2) @ CH1386 by Rig 1 | 42 days | | 42 days | 0% | Fri 3/7/20 | Thu 20/8/20 | | NA | Sat 25/7/20 | Fri 11/9/20 | 19 days 3 days | 831FS+12 days | 🕌 | | | | | | | | | |
| 962 | Bored Pile (A02-BP1) @ CH1386 by Rig 1 | 63 days | | 63 days | 0% | Tue 28/7/20 | Sat 10/10/20 | | NA | Wed 19/8/20 | Tue 3/11/20 | 19 days 3 days | | | | | | | | | | | |
| 963 | | | | | 0% | Mon 12/10/20 | | | NA NA | | | 19 days 3 days | | 1 | | | | | | | | | |
| 203 | Pile Testing | 35 days | o uays | 35 days | 070 | 1011 12/10/20 | Sat 21/11/20 | INA | INA | Wed 4/11/20 | 191011 14/12/20 | 17 uays 4 days | 702 | | | | | | | | | | |
| itle: Rev.11 P | Prog with Progress | Summary | | | Inactive Mi | | | Duration-or | - | | Start-only | E | | emal Milesto | ne 💠 | | | tical Split | | | | | |
| as of 22-May | r-20 Split Milestone ◆ | Project Sun Inactive Tas | | | Inactive Sur Manual Tas | | | Manual SurManual Sur | mmary Rollup | | Finish-only External Tasl | 3 | Dea Crit | dline | | | | ogress mual Progres | pe. | | | _ | |

| | | | | | | | | tract No. ED | | | | | | | | | | | | | | |
|--------------|--|-------------|--------------------|-----------------------|------------------------|--------------------------|--------------|---------------------|---------------|--------------|--------------|----------------|--------|-----------------|-------------|-------------|-----------------------|-------------|---------------------|------------------|--------------------|-----------------|
| Task N | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total Slack | TRA | | 020 Q3 | 04 01 | 2021 Q2 Q | 3 04 | | 2022 Q3 Q | μ4 Ω1 ¹ | 2023 Q2 Q3 |
| 964 | Proof-drilling Works | 11 days | | 11 days | 0% | Mon 23/11/20 | Fri 4/12/20 | NA | NA | Tue 2/2/21 | Wed 17/2/21 | 58 days | 2 days | 963 | | | | | | | | |
| 965 | South Abutment | 166 days | 0 days | 166 days | 0% | Wed 3/2/21 | Thu 26/8/21 | NA | NA | Thu 18/2/21 | Tue 7/9/21 | 10 days | | 968SS,964 | | | | - | | | | |
| 966 | South Abutment ELS- Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 4/1/21 | Mon 4/1/21 | NA | NA | Tue 19/1/21 | Tue 19/1/21 | 15 days | 1 day | | | 4 /1 | | | | | | |
| 967 | South Abutment ELS - Design and Method Statement Comment & Appraoval | 30 days | 0 days | 30 days | 0% | Mon 4/1/21 | Tue 2/2/21 | NA | NA | Tue 19/1/21 | Wed 17/2/21 | 15 days | 1 day | 966 | | <u> </u> | | | | | | |
| 968 | Drive sheetpile (~900m) Prod. Rate: 10m/d/team | 11 days | 0 days | 11 days | 0% | Wed 3/2/21 | Thu 18/2/21 | NA | NA | Thu 18/2/21 | Tue 2/3/21 | 10 days | 2 days | 964,967,980 | | | | | | | | |
| 969 | Excavation ~1,344m3 & lateral support. Prod. Rate: 160m3/day/team | 11 days | | 11 days | 0% | Fri 19/2/21 | Wed 3/3/21 | | NA | Mon 22/3/21 | Tue 6/4/21 | 26 days | | 968 | | | | | | | | |
| 970 | Blinding layer | | 0 days | | 0% | Thu 4/3/21 | Thu 4/3/21 | | NA | Wed 7/4/21 | Wed 7/4/21 | 26 days | | 969 | | | <u> </u> | | | | | |
| | | | | 1 day | | | | | | | | | | 909 | | | | | | | | |
| 971 | South Abutment Formwork- Design and Method Statement Submission | | | 0 days | 0% | Mon 21/12/20 | | | NA | Tue 9/3/21 | Tue 9/3/21 | 78 days | | | | 21/1 | 2 | | | | | |
| 972 | South Abutment Formwork - Design and Method Statement Comment & Appraoval | 30 days | | 30 days | 0% | Mon 21/12/20 | | NA | NA | Tue 9/3/21 | Wed 7/4/21 | 78 days | - | 971 | | | | | | | | |
| 973 | Base Slab | 36 days | 0 days | 36 days | 0% | Wed 17/3/21 | Fri 30/4/21 | NA | NA | Thu 8/4/21 | Fri 21/5/21 | 16 days | 2 days | 970,972,986 | | | | | | | | |
| 974 | Wall (3.85m thk). Prod. Rate: 18d/bay/team | 39 days | 0 days | 39 days | 0% | Mon 3/5/21 | Fri 18/6/21 | NA | NA | Sat 22/5/21 | Thu 8/7/21 | 16 days | 3 days | 973 | | | | | | | | |
| 975 | Wall (0.5m thk) | 52 days | 0 days | 52 days | 0% | Sat 19/6/21 | Thu 19/8/21 | NA | NA | Fri 9/7/21 | Tue 7/9/21 | 16 days | 2 days | 974 | | | | | | | | |
| 976 | Install bridge bearing | 8 days | 0 days | 8 days | 0% | Fri 27/8/21 | Sat 4/9/21 | NA | NA | Wed 8/9/21 | Thu 16/9/21 | 10 days | 1 day | 975,736,822,965 | | | | 7 | | | | |
| 977 | South Approach Ramp - CH1394-1444.7 - Total 8 bays (4 bay/side) | 259 days | 0 days | 259 days | 0% | Mon 21/9/20 | Fri 6/8/21 | NA | NA | Sun 15/11/20 | Sat 4/12/21 | 45 days | | | $\ \ $ | | | | | | | |
| 978 | South Approach Ramp ELS - Temp. Works Design and Method Statement | 0 days | 0 days | 0 days | 0% | Mon 21/9/20 | Mon 21/9/20 | NA | NA | Sun 15/11/20 | Sun 15/11/20 | 55 days | 1 day | | | 21/9 | | | | | | |
| 979 | Submission South Approach Ramp ELS - Temp. Works Design and Method Statement | 30 days | 0 days | 30 days | 0% | Mon 21/9/20 | Tue 20/10/20 |) NA | NA | Sun 15/11/20 | Mon 14/12/20 | 55 days | 1 day | 978 | | | | | | | | |
| 980 | Comment & Approval Drive sheetpile (~240m) Prod. Rate: 10m/d/team | 26 days | | 26 days | 0% | Mon 23/11/20 | | | NA | Tue 15/12/20 | Sat 16/1/21 | 19 days | - | 979,962,963 | | | | | | | | |
| 981 | Excavation ~2,688m3 & lateral support. Prod. Rate: 160m3/day/team | 19 days | | 19 days | 0% | Wed 23/12/20 | | | NA | Mon 18/1/21 | Mon 8/2/21 | 19 days | | 980 | | | | | | | | |
| | | | | | | | | | | | | | _ | | | | | | | | | |
| 982 | Rock Replacement | 7 days | | 7 days | 0% | Sun 17/1/21 | Sat 23/1/21 | | NA | Tue 9/2/21 | Mon 15/2/21 | 23 days | | 981 | | | | | | | | |
| 983 | Blinding layer. Prod. Rate: 2bays/day | 1 day | 0 days | 1 day | 0% | Mon 25/1/21 | Mon 25/1/21 | NA | NA | Tue 16/2/21 | Tue 16/2/21 | 16 days | 1 day | 981,982 | | III II F | | | | | | |
| 984 | Sourth Approach - Formworks Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Tue 1/12/20 | Tue 1/12/20 | NA | NA | Mon 18/1/21 | Mon 18/1/21 | 48 days | 1 day | | | ♠ 1/12 | | | | | | |
| 085 | South Approach Ramp Formworks Design and Method Statement Comment & Appraoval | 30 days | 0 days | 30 days | 0% | Tue 1/12/20 | Wed 30/12/2 | 0 NA | NA | Mon 18/1/21 | Tue 16/2/21 | 48 days | 1 day | 984 | | | | | | | | |
| 986 | 6 x Base Slab Prod. Rate: 12d/bay/team x 2 teams | 40 days | 0 days | 40 days | 0% | Tue 26/1/21 | Tue 16/3/21 | NA | NA | Wed 17/2/21 | Wed 7/4/21 | 16 days | 4 days | 983,985,244 | | | $\mathbb{K}[[\cdot]]$ | | | | | |
| 87 | 6 x Wall. Prod. Rate: 12d/bay/team x 3 level x 2 teams | 78 days | 0 days | 78 days | 0% | Wed 17/3/21 | Tue 22/6/21 | NA | NA | Mon 28/6/21 | Tue 28/9/21 | 82 days | 6 days | 986 | | | | _ | | | | |
| 88 | Backfilling ~4,765.89m3 within approach ramp to formation level (160m3/day) +12d shoring removal x 2 (considered time for SRT) | 38 days | 0 days | 38 days | 0% | Wed 23/6/21 | Fri 6/8/21 | NA | NA | Fri 22/10/21 | Sat 4/12/21 | 100 days | 2 days | 987 | | | | | | | | |
| 989 | CH1386-1444: South Approach Ramp (50m): Parapet, Central Median & Furniture | 43 days | 0 days | 43 days | 0% | Wed 15/12/21 | Wed 9/2/22 | NA | NA | Wed 15/12/21 | Wed 9/2/22 | 0 days | | 988 | | | | Υ. | ••• • •••••• | | | |
| 990 | CH1386-1444: Central Median and Utilities Trough (5m per day per team) x 1 | 23 days | | 23 days | 0% | Wed 15/12/21 | Thu 13/1/22 | NA | NA | Wed 15/12/21 | Thu 13/1/22 | 0 days | 2 davs | 253,956 | | | | | | | | |
| 991 | team CH1386-1444: Parapet (10m per day per team) x 2 team + 2 team x 6 day | 13 days | | 13 days | 0% | Fri 14/1/22 | Fri 28/1/22 | | NA | Fri 14/1/22 | Fri 28/1/22 | - | - | 988,253,990 | | | | | | | | |
| 992 | concreting CH1386-1444: Road Furniture | 7 days | | | 0% | Sat 29/1/22 | Wed 9/2/22 | | NA | Sat 29/1/22 | Wed 9/2/22 | | | 990,358,991 | | | | | | | | |
| | | | | 7 days | | | | | | | | - | - | | | | | | | | | |
| 993 | CH1087 - 1444: Bitumen Paving and Lighting | 60 days | | 60 days | 0% | Thu 30/12/21 | | | NA | Wed 15/12/21 | Tue 1/3/22 | -11 days | 1 day | 813,884,892FF,9 | | | | 1 | | | | |
| 94 | 2.6 Utility Laying | 1 day? | | 1 day? | 0% | Thu 16/5/19 | Thu 16/5/19 | NA | NA | Wed 29/5/24 | Wed 29/5/24 | 1840 d | | | | | | | | | | |
| 995 | CH1087-1311 (224m): Utility Laying (by Others) (Agreed) | 63 days | 0 days | 63 days | 0% | Wed 29/12/21 | Tue 1/3/22 | NA | NA | Wed 29/12/21 | Tue 1/3/22 | 0 days | | | | | | | | | | |
| 96 | CLP (132kV) | 63 days | 0 days | 63 days | 0% | Wed 29/12/21 | Tue 1/3/22 | NA | NA | Wed 29/12/21 | Tue 1/3/22 | 0 days | 1 day | 899,955SS+32 d | | | | HAIL HAIL | | | | |
| 997 | CLP (11kV) | 63 days | 0 days | 63 days | 0% | Wed 29/12/21 | Tue 1/3/22 | NA | NA | Wed 29/12/21 | Tue 1/3/22 | 0 days | 1 day | 996SS | | | | ≯ ii | | | | |
| 998 | HKCG | 53 days | 0 days | 53 days | 0% | Wed 29/12/21 | Sat 19/2/22 | NA | NA | Sat 8/1/22 | Tue 1/3/22 | 10 days | 1 day | 997SS | | | | • | | | | |
| 999 | CATV | 23 days | 0 days | 23 days | 0% | Wed 29/12/21 | Thu 20/1/22 | NA | NA | Thu 3/2/22 | Fri 25/2/22 | 36 days | 1 day | 998SS | | | | * | | | | |
| 1000 | Towngas telecom | 27 days | | 27 days | 0% | Wed 29/12/21 | | | NA | Thu 3/2/22 | Tue 1/3/22 | 36 days | 1 day | 999SS | | | | | | | | |
| 1001 | PCCW-HKT | 23 days | | 23 days | 0% | Wed 29/12/21 | | | NA | Sun 6/2/22 | Mon 28/2/22 | 39 days | _ | 1000SS | | | | | | | | |
| .002 | Fresh and Salt Watermains (by POC) | 24 days | | 24 days | 0% | Wed 29/12/21 | | | NA | Sun 6/2/22 | Tue 1/3/22 | 39 days | - | 1001SS | | | | | | | | |
| | | | | | | | | | | | | | ı udy | 100100 | | | | | | | | |
| 1003 | CH1311-1396 (85m): Utility Laying (by Others) (Agreed) | 84 days | | 84 days | 0% | | Wed 29/12/2 | | NA | Fri 4/2/22 | Tue 1/3/22 | 62 days | | | | | | | | | | |
| 1004 | CLP (11kV) | 26 days | | 26 days | 0% | Wed 5/1/22 | Sun 30/1/22 | | NA | Fri 4/2/22 | Tue 1/3/22 | 30 days | - | 899,955 | | | | | | | | |
| 1005 | PCCW-HKT | 18 days | 0 days | 18 days | 0% | Wed 5/1/22 | Sat 22/1/22 | NA | NA | Sat 12/2/22 | Tue 1/3/22 | 38 days | 1 day | 1004SS | | | | | | | | |
| 1006 | Sat and Fresh Watermain (by POC) | 18 days | 0 days | 18 days | 0% | Wed 5/1/22 | Sat 22/1/22 | NA | NA | Sat 12/2/22 | Tue 1/3/22 | 38 days | 1 day | 1005SS | | | | | | | | |
| 1007 | Underpass and Depressed Road | 619 days | 142.15 days | 476.85 days | 0% | Tue 3/9/19 | Mon 4/10/21 | Tue 3/9/19 | NA | Tue 3/9/19 | Tue 1/3/22 | 120 days | | | | | | | | | | |
| itle: Rev.11 | Prog with Progress Task | Summary | | | Inactive M | Tilestone \diamondsuit | | Duration-o | nly | | Start-only | | C | External M | ilestone | ♦ | | Critical Sp | lit | | | |
| as of 22-Ma | av-20 Split | Project Sun | | | Inactive St | | | Manual Su Manual Su | mmary Rollup | | Finish-only | |] | Deadline | | Φ. | | Progress | | | | |
| | Milestone | Inactive Ta | or. | | Manual Ta | ion. | | iviandai Su | нина у | | External Tas | cae | | Critical | | | | Manual Pr | ogicss | | | |

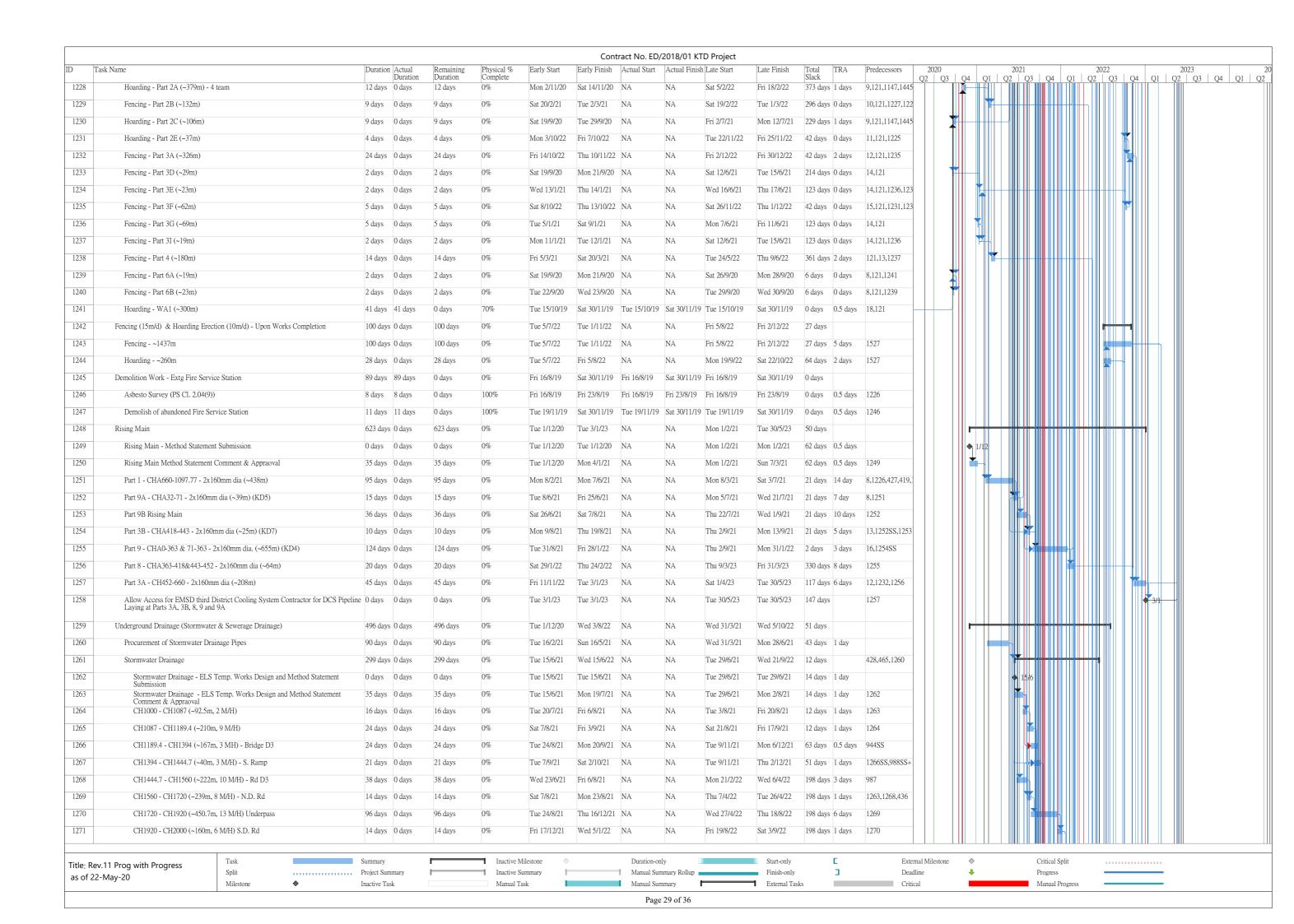
| | | 1- | 1. | | | | | | | D Project | - | | | L . | | | | | | $\overline{}$ | $\overline{}$ | | | $\overline{}$ |
|-------------------------|--|-------------|--------------------|-----------------------|------------------------|-------------------------|--------------|--------------|-----------------------|--------------|--------------|----------------|----------|-------------------|-----------------|-------------------------|----|----------------|--------|---------------|---------------|------------|----|---------------|
| Task Na | ame | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total Slack | | Predecessors | 2020 Q2 Q3 | Q4 | Q1 | 2021 Q2 Q | 3 0 | 4 O1 | 20 Q2 | 2022 Q3 | Q4 | Q |
| 08 | North Depressed Rd (CH1560-1720) | 562 days | 211.42 days | 350.58 days | 0% | Tue 3/9/19 | Tue 27/7/21 | Tue 3/9/19 | NA | Tue 3/9/19 | Tue 1/3/22 | 177 days | 3 | | | | | | | | | | | |
| 09 | Ground Monitoring Works | 17 days | 17 days | 0 days | 100% | Tue 3/9/19 | Thu 19/9/19 | Tue 3/9/19 | Thu 19/9/19 | Tue 3/9/19 | Thu 19/9/19 | 0 days | 2 days | | | | | | | | | | | |
| 10 | Mobilization | 7 days | 7 days | 0 days | 100% | Fri 1/11/19 | Fri 8/11/19 | Fri 1/11/19 | Fri 8/11/19 | Fri 1/11/19 | Fri 8/11/19 | 0 days | 0 days | | | | | | | | | 1 | | |
| 11 | Complete the Diveration of Existing Overhang Cable along the North Depressed | 1 day | 1 day | 0 days | 100% | Sat 26/10/19 | Sat 26/10/19 | Sat 26/10/19 | Sat 26/10/19 | Sat 26/10/19 | Sat 26/10/19 | 0 days | 0.5 days | | | | | | | | | 1 | | |
| 2 | Drive Sheet Pile (380m, 15,000m penetration depth) Prod. Rate by 2 teams | 39 days | 39 days | 0 days | 100% | Fri 22/11/19 | Thu 9/1/20 | Fri 22/11/19 | Thu 9/1/20 | Fri 22/11/19 | Thu 9/1/20 | 0 days | 0.5 days | 1009,1010,1011 | | | | | | | | 1 | | |
| | (around 125m penetration depth per day per team) | | | | | | | | | | | | | | | | | | | | | 1 | | |
| 13 | Pumping Test | 120 days | 75 days | 45 days | 0% | Thu 20/2/20 | Fri 17/7/20 | Thu 20/2/20 | NA | Thu 20/2/20 | Sat 18/7/20 | 1 day | 0.5 days | 1012 | | | | | | | | 1 | | |
| 4 | CH1560 - CH1720 North Depress Road | 449 days | 98.66 days | 350.34 days | 0% | Mon 20/1/20 | Tue 27/7/21 | Mon 20/1/20 | NA | Mon 20/1/20 | Tue 1/3/22 | 177 days | 3 | | | | | | | | | 1 | | |
| 15 | Excavation with Shoring Installation - Prod Rate: 270m3/d/team. (~36,611m3). 1 team | 145 days | 98 days | 47 days | 0% | Mon 20/1/20 | Sat 18/7/20 | Mon 20/1/20 | NA | Mon 20/1/20 | Sat 18/7/20 | -11 days | 1 day | 1012 | | | | | | | | 1 | | |
| 6 | CNCE No. 73 - April 2020 Inclement Weather | 8 days | 0 days | 8 days | 0% | Mon 20/7/20 | Tue 28/7/20 | NA | NA | Tue 7/7/20 | Wed 15/7/20 | -11 days | | 1015,73 | | | | | | | | 1 | | |
| .7 | May 2020 - Inclement Weather | 3 days | 0 days | 3 days | 0% | Wed 29/7/20 | Fri 31/7/20 | NA | NA | Thu 16/7/20 | Sat 18/7/20 | -11 days | | 1016,74 | | | | | | | | 1 | | |
| 18 | Rock Fill Replacement (Final Level) | 6 days | 0 days | 6 days | 0% | Sat 1/8/20 | Fri 7/8/20 | NA | NA | Mon 20/7/20 | Sat 25/7/20 | -11 days | | 1013,1015,1017 | # | | | | | | | | | |
| 19 | 6 Bay Base Slabs + 3 Levels Wall Both Sides | 55 days | 0 days | 55 days | 0% | Wed 3/6/20 | Fri 7/8/20 | NA | NA | Thu 21/5/20 | Sat 25/7/20 | -11 days | | 1015SS+107 day | | | | | | | | | | |
| 20 | Base Slab and Wall Below 4th Level Shoring | 25 days | 0 days | 25 days | 0% | Sat 8/8/20 | Sat 5/9/20 | NA | NA | Mon 27/7/20 | Mon 24/8/20 | -11 days | 0.5 days | 1019,1015,1018 | 🛓 | | | | | | | | | |
| 21 | Backfilling and 4th Level Shoring Removal | 18 days | | 18 days | 0% | Mon 7/9/20 | Sat 26/9/20 | NA | NA | Tue 25/8/20 | Mon 14/9/20 | -11 days | | 1020 | | | | | | | | | | |
| 22 | Wall Construction (between 3rd and 4th levels shoring) and Remaining Base | | | 24 days | 0% | Mon 28/9/20 | Wed 28/10/20 | | NA | Tue 15/9/20 | Wed 14/10/20 | | | 1021 | | | | | | | | | | |
| 23 | Slab Backfilling and 3rd Level Shoring Removal | 18 days | | 18 days | 0% | Thu 29/10/20 | | | NA | Thu 15/10/20 | Thu 5/11/20 | -11 days | | 1022 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | Structure Works Below 2nd & 3rd Levels Shoring | 23 days | | 23 days | 0% | | Tue 15/12/20 | | NA | Fri 6/11/20 | Wed 2/12/20 | -11 days | | 1023 | | | | | | | | | | |
| 25 | Backfilling and 2nd Level Shoring Removal | 18 days | | 18 days | 0% | Wed 16/12/20 | | NA | NA | Thu 3/12/20 | Wed 23/12/20 | | | 1024 | | | | | | | | 1 | | |
| 26 | Remaining Wall Construction | 30 days | 0 days | 30 days | 0% | Sat 9/1/21 | Tue 16/2/21 | NA | NA | Thu 24/12/20 | Sat 30/1/21 | -11 days | | 1025 | | | | | | | | 1 | | |
| 27 | Backfill & extract sheet pile (CH1560 to CH1720) | 26 days | 0 days | 26 days | 0% | Wed 17/2/21 | Thu 18/3/21 | NA | NA | Mon 1/2/21 | Fri 5/3/21 | -11 days | 1 day | 1026 | | | | | | | | 1 | | |
| 28 | Emergency walkway & median barrier installation | 20 days | 0 days | 20 days | 0% | Tue 1/6/21 | Thu 24/6/21 | NA | NA | Mon 3/1/22 | Tue 25/1/22 | 177 days | 2 days | 1027 | | | | T | | | | 1 | | |
| 29 | Parapet installation | 27 days | 0 days | 27 days | 0% | Fri 25/6/21 | Tue 27/7/21 | NA | NA | Wed 26/1/22 | Tue 1/3/22 | 177 days | 3 days | 1028 | | | | | | | | 1 | | |
| 0 | CH1720 - CH1850 (130m long) (2 x teams) | 477 days | 0 days | 477 days | 0% | Mon 15/6/20 | Mon 4/10/21 | NA | NA | Mon 15/6/20 | Mon 4/10/21 | 0 days | | | r | | | | | | | 1 | | |
| 31 | Drive sheet pile (approx. 17000m penetration depth, 380m/day) | 46 days | 0 days | 46 days | 0% | Mon 15/6/20 | Sat 8/8/20 | NA | NA | Mon 15/6/20 | Sat 8/8/20 | 0 days | 2 day | | | | | | | | | 1 | | |
| 2 | Pumping Test | 22 days | 0 days | 22 days | 0% | Mon 10/8/20 | Thu 3/9/20 | NA | NA | Mon 10/8/20 | Thu 3/9/20 | 0 days | 1 days | 1031,1045 | | | | | | | | 1 | | |
| 3 | CH1720 - CH1850 (130m long) (2 x teams) Top Portion: Excavation with | 42 days | 0 days | 42 days | 0% | Fri 4/9/20 | Sat 24/10/20 | NA | NA | Fri 4/9/20 | Sat 24/10/20 | 0 days | 2 day | 1032 | | | | | | | | 1 | | |
| | Shoring Installation = 23,000 cu.m. (320m3/d/team x 2) | | | | | | | | | | | | | | | | | | | | | 1 | | |
| 34 | CH1720 - CH1850 (130m long) (2 x teams) Bottom Portion: Excavation with Shoring Installation = 23,876 cu.m. (250m3/d/team x 2) | 52 days | 0 days | 52 days | 0% | Tue 27/10/20 | Mon 28/12/20 | NA | NA | Tue 27/10/20 | Mon 28/12/20 | 0 days | 1 day | 1033 | | | | | | | | 1 | | |
| 35 | Rock fill - Prod. Rate: (3,469m3) (160m3/d/team. 2 team) | 6 days | 0 days | 6 days | 0% | Tue 29/12/20 | Tue 5/1/21 | NA | NA | Tue 29/12/20 | Tue 5/1/21 | 0 days | 1 day | 1033,1034 | | | | | | | | 1 | | |
| 36 | Base Slab - 8 bays. Prod. Rate: 12d/team/bay include pipe laying. 4 teams | 26 days | | 26 days | 0% | Wed 3/3/21 | Thu 1/4/21 | | NA | Wed 3/3/21 | Thu 1/4/21 | 0 days | | 1035,1042,262 | | | | | | | | 1 | | |
| 37 | Wall - 8 bays. Prod. Rate: 3 level of shoring 12d/bay/level/team. 4 teams | | | | 0% | | Tue 6/7/21 | | | | | | | | | | | . | | | | 1 | | |
| | | 75 days | | 75 days | | Tue 6/4/21 | | | NA | Tue 6/4/21 | Tue 6/7/21 | | | 1036 | | | | | | | | 1 | | |
| 38 | Top Slab - 8 bays. Prod. Rate: 18d/team/bay, 4 teams | 38 days | | 38 days | 0% | Wed 7/7/21 | Thu 19/8/21 | | NA | Wed 7/7/21 | Thu 19/8/21 | | | 1037 | | | | | ĴШ | | | 1 | | |
| 39 | Falsework Removal | 37 days | | 37 days | 0% | Fri 20/8/21 | Mon 4/10/21 | | NA | Fri 20/8/21 | Mon 4/10/21 | | 2 day | 1038 | | | | | | | | 1 | | |
| 40 | Sheetpile Extraction and Backfill | 13 days | 0 days | 13 days | 0% | Fri 20/8/21 | Fri 3/9/21 | NA | NA | Fri 17/9/21 | Mon 4/10/21 | 24 days | 1 day | 1038 | | | | | | | | 1 | | |
| 41 | Underground Plant Room next to Underpass | 45 days | 0 days | 45 days | 0% | Wed 6/1/21 | Tue 2/3/21 | NA | NA | Wed 6/1/21 | Tue 2/3/21 | 0 days | | | | | | | | | | 1 | | |
| 42 | Underground pump house structure | 45 days | 0 days | 45 days | 0% | Wed 6/1/21 | Tue 2/3/21 | NA | NA | Wed 6/1/21 | Tue 2/3/21 | 0 days | 3 day | 714,1035,262,28 | | | 4 | | | | | 1 | | |
| 43 | Underpass & South Depressed Road CH1850-1950 - (100m long) 8 bays x 13.5m long | 120 days | 65.36 days | 54.64 days | 0% | Wed 26/2/20 | Thu 23/7/20 | Wed 26/2/20 | NA | Wed 26/2/20 | Sat 8/8/20 | 14 days | | | | | | | | | | 1 | | |
| 44 | Drive sheet pile (12,530m embedded length sheetpile) Prod. Rate 380m/team/day | 32 days | 32 days | 0 days | 100% | Wed 26/2/20 | Mon 6/4/20 | Wed 26/2/20 | Mon 6/4/20 | Wed 26/2/20 | Mon 6/4/20 | 0 days | 5 days | | h | | | | | | | 1 | | |
| 45 | Pumping Test | 80 days | 29 days | 51 days | 36% | Fri 17/4/20 | Thu 23/7/20 | Fri 17/4/20 | NA | Fri 17/4/20 | Sat 8/8/20 | 14 days | 2 days | 1044 | | $\mathbb{H} \mathbb{H}$ | | | | | | 1 | | |
| 46 | Underpass & South Depress Road (CH1850 to CH1950) | 539 days | 27.64 days | 511.36 days | 0% | Thu 23/4/20 | Wed 13/10/21 | Thu 23/4/20 | NA | Thu 23/4/20 | Tue 1/3/22 | 139 days | 3 | | | | | | | | | | | |
| 17 | Excavation with Shoring Installation (Upper Portion) - Prod. Rate: 270m3/d/team. 1 | 80 days | 24 days | 56 days | 23% | Thu 23/4/20 | Thu 30/7/20 | Thu 23/4/20 | NA | Thu 23/4/20 | Fri 4/9/20 | 31 days | 5 days | 1045SS+6 days | • | | | | | | | | | |
| 48 | team 16,000m3) Excavation with Shoring Installation (Lower Portion) - Prod. Rate: 270m3/d/team. 1 | 65 days | 0 days | 65 days | 0% | Fri 31/7/20 | Fri 16/10/20 | NA | NA | Sat 5/9/20 | Mon 23/11/20 | 31 days | 5 day | 1047,1045FF+12 | | | | | | | | | | |
| 49 | team 16,000m3) Rock fill - Prod. Rate: 160m3/d/team (1,745m3) | | 0 days | 7 days | 0% | Sat 17/10/20 | Sat 24/10/20 | | NA | Tue 24/11/20 | Tue 1/12/20 | 31 days | | days 1047,1048 | | | ЩЩ | | | | | | | |
| 50 | Blinding | | 0 days | 1 day | 0% | | Tue 27/10/20 | | NA | Wed 2/12/20 | Wed 2/12/20 | | 0.5 days | | | | | | | | | | | |
| | | 1 day | o days | 2 dily | 070 | 1 40 21110120 | 140 21110120 | 1111 | 1771 | | | J1 days | o.J unys | 2017 | | | | | | | | Ш | | Ш |
| O. Dov 11 | Progwith Progress Task | Summary | | | Inactive M | ilestone \diamondsuit | | Duration-or | nly | | Start-only | | С | Exte | mal Milestone | \$ | | | Critic | cal Split | | | | |
| e: Kev.111 of 22-May | Prog with Progress | Project Sun | nmary | | Inactive Su | immary | | Manual Sur | nmary Rollup = | | Finish-only | | 3 | Dead | illine | 1 | | | Progre | ess | | _ | | _ |

| | | | 4 | ъ | DI | п 1 0 | n | A | A | 11 7 . 0 | 1 | m . 1 · | D 1 | 0 | | | 0000 | | 2027 |
|--------------------------|--|-------------|--------------------|-----------------------|------------------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------------|------------------------|---------------|---|----------------|-----------------------|--------|-----------------|
| Task | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Fin | ish Late Start | Late Finish | Total TRA Slack | Predecessors 202 Q2 | | Q1 Q2 C | Q3 Q4 Q1 | 2022 Q2 Q3 Q | Q4_ Q1 | 2023 Q2 Q3 |
| 051 | Underpass Formworks Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 14/9/20 | Mon 14/9/20 | NA | NA | Tue 3/11/20 | Tue 3/11/20 | 50 days 1 day | | 4 14/9 | | | | | |
| 052 | Underpass Formworks Design and Method Statement Comment & Appraoval | 30 days | 0 days | 30 days | 0% | Mon 14/9/20 | Tue 13/10/20 | NA | NA | Tue 3/11/20 | Wed 2/12/20 | 50 days 1 day | 1051 | | | | | | |
| 053 | Casting base slab (12d/bay/team x 3) (6 bays) | 26 days | 0 days | 26 days | 0% | Wed 28/10/20 | Thu 26/11/20 | NA | NA | Thu 3/12/20 | Tue 5/1/21 | 31 days 2 day | 1050,1052,262 | | | | | | |
| 054 | Waterproofing & Bacfilling before S3 Shoring Removal | 12 days | 0 days | 12 days | 0% | Fri 27/11/20 | Thu 10/12/20 | NA | NA | Wed 6/1/21 | Tue 19/1/21 | 31 days 1 day | 1053 | | | | | | |
| 055 | S3 Shoring ELS Removal + North/South End Re-propping | 7 days | 0 days | 7 days | 0% | Fri 11/12/20 | Fri 18/12/20 | NA | NA | Wed 20/1/21 | Wed 27/1/21 | 31 days 1 day | 1054 | | | | | | |
| 056 | Wall Construction up to soffit of S2 Shoring (12d/bay/team x 3) (6 bays) | 24 days | 0 days | 24 days | 0% | Sat 19/12/20 | Tue 19/1/21 | NA | NA | Thu 28/1/21 | Sat 27/2/21 | 31 days 2 day | 1055 | | | | | | |
| 057 | Waterproofing & Bacfilling before S2 Shoring Removal | 12 days | 0 days | 12 days | 0% | Wed 20/1/21 | Tue 2/2/21 | NA | NA | Mon 1/3/21 | Sat 13/3/21 | 31 days 1 day | 1056 | | | | | | |
| 058 | S2 Shoring ELS Removal + North/South End Re-propping | 7 days | 0 days | 7 days | 0% | Wed 3/2/21 | Wed 10/2/21 | NA | NA | Mon 15/3/21 | Mon 22/3/21 | 31 days 1 day | 1057 | | K III | | | | |
| 059 | Wall Construction up to soffit of S1 Shoring (12d/bay/team x 3) (6 bays) | 24 days | 0 days | 24 days | 0% | Thu 11/2/21 | Sat 13/3/21 | NA | NA | Tue 23/3/21 | Thu 22/4/21 | 31 days 2 day | 1058 | | | | | | |
| 060 | Waterproofing & Bacfilling before S1 Shoring Removal | 12 days | 0 days | 12 days | 0% | Mon 15/3/21 | Sat 27/3/21 | NA | NA | Fri 23/4/21 | Fri 7/5/21 | 31 days 1 day | 1059 | | | | | | |
| 061 | S1 Shoring ELS Removal + North/South End Re-propping | 7 days | | 7 days | 0% | Mon 29/3/21 | Thu 8/4/21 | NA | NA | Sat 8/5/21 | Sat 15/5/21 | 31 days 1 day | 1060 | | Y | | | | |
| 062 | Scaffold erection for roof slab | 24 days | | 24 days | 0% | Fri 9/4/21 | Fri 7/5/21 | NA | NA | Mon 17/5/21 | Tue 15/6/21 | 31 days 2 day | 1061 | | | | | | |
| 063 | Roof slab construction (18d/bay/team x 3) (6 bays) | 42 days | | 42 days | 0% | Sat 8/5/21 | Mon 28/6/21 | | NA | Wed 16/6/21 | Wed 4/8/21 | 31 days 4 days | 1062 | | | | | | |
| 064 | Waterproofing & Backfilling upto tunnel top | 28 days | | 28 days | 0% | Tue 29/6/21 | Sat 31/7/21 | | NA | Thu 5/8/21 | Mon 6/9/21 | 31 days 4 days | 1063 | | | | | | |
| 065 | | | | | | | | | | | | | | | | | | | |
| | Scaffold removal after 28 days from casting | 22 days | | 22 days | 0% | Mon 26/7/21 | Thu 19/8/21 | | NA | Thu 13/1/22 | Thu 10/2/22 | 141 days 1 day | 1063FS+22 days | | | | | | |
| 066 | Sheetpile extraction (Ch1851-CH1950) | 22 days | | 22 days | 0% | Mon 2/8/21 | Thu 26/8/21 | | NA | Tue 7/9/21 | Mon 4/10/21 | 31 days 1 day | 1064 | | | | | | |
| 067 | Emergency walkway & median barrier installation | | 0 days | 9 days | 0% | Fri 24/9/21 | Tue 5/10/21 | | NA | Fri 11/2/22 | Mon 21/2/22 | 112 days 1 day | 323,1066,1040,1 | | | | | | |
| 068 | Parapet installation | 7 days | 0 days | 7 days | 0% | Wed 6/10/21 | Wed 13/10/2 | 1 NA | NA | Tue 22/2/22 | Tue 1/3/22 | 112 days 1 day | 1067 | | | | | | |
| 069 | CH1950 - CH2020 (70m long) (2 x teams) 4 bays x 17.5m long - Average 3 layers of shoring | 209 days | o days | 209 days | 0% | Fri 19/3/21 | Mon 29/11/2 | 1 NA | NA | Sat 6/3/21 | Tue 1/3/22 | -11 days | | | | | | | |
| 070 | Drive sheet pile (approx. 8,800m embedded length sheetpile), 380m/team/day | 24 days | 0 days | 24 days | 0% | Fri 19/3/21 | Mon 19/4/21 | NA | NA | Sat 6/3/21 | Tue 6/4/21 | -11 days 1 day | 1027 | | <u> </u> | | | | |
| 071 | Excavation with Shoring Installation - Prod. Rate: 2 teams x 250m3/d/team. (14,500m3) | 30 days | 0 days | 30 days | 0% | Tue 20/4/21 | Wed 26/5/21 | NA | NA | Wed 7/4/21 | Wed 12/5/21 | -11 days 1 day | 1049,1070 | | | | | | |
| 072 | Rock Fill Replacement | 6 days | 0 days | 6 days | 0% | Thu 27/5/21 | Wed 2/6/21 | NA | NA | Thu 13/5/21 | Thu 20/5/21 | -11 days 0.5 days | 1071 | | i i i | | | | |
| 073 | Blinding | 1 day | 0 days | 1 day | 0% | Thu 3/6/21 | Thu 3/6/21 | NA | NA | Fri 21/5/21 | Fri 21/5/21 | -11 days 0.5 days | 1071,1072 | | | | | | |
| 074 | Base Slab - 4 bays. Prod. Rate: 12d/team/bay include pipe laying. 2 team | 26 days | 0 days | 26 days | 0% | Fri 4/6/21 | Tue 6/7/21 | NA | NA | Sat 22/5/21 | Tue 22/6/21 | -11 days 2 days | 1073 | | 1 | | | | |
| 075 | Wall - 4 bays. Prod. Rate: 3 level of shoring 12d/bay/level/team. 2 teams | 67 days | 0 days | 67 days | 0% | Wed 16/6/21 | Thu 2/9/21 | NA | NA | Wed 2/6/21 | Fri 20/8/21 | -11 days 6 days | 1074SS+9 days | | - | ■ | | | |
| 076 | Backfill & extract sheet pile (CH1950 to CH2020) | 25 days | 0 days | 25 days | 0% | Fri 3/9/21 | Mon 4/10/21 | NA | NA | Sat 21/8/21 | Sat 18/9/21 | -11 days 2 days | 1075 | | | | | | |
| 077 | CH1950 to CH2020: Emergency walkway & median barrier installation | 20 days | 0 days | 20 days | 0% | Tue 5/10/21 | Thu 28/10/21 | NA | NA | Mon 3/1/22 | Tue 25/1/22 | 73 days 2 days | 1075,1076 | | | ₩. | | | |
| 078 | CH1950 to CH2020: Pavement work | 7 days | 0 days | 7 days | 0% | Fri 29/10/21 | Fri 5/11/21 | NA | NA | Wed 26/1/22 | Sat 5/2/22 | 73 days 1 day | 1077 | | | X | | | |
| 079 | CH1950 to CH2020: Parapet installation | 20 days | 0 days | 20 days | 0% | Sat 6/11/21 | Mon 29/11/2 | 1 NA | NA | Mon 7/2/22 | Tue 1/3/22 | 73 days 2 day | 1076,1077,1078 | | | N P | | | |
| 080 | South Depressed Road CH2020-2050 (40m long) (2 x teams) 5 bays x 13.5m long - | 134 days | o days | 134 days | 0% | Mon 2/8/21 | Tue 11/1/22 | NA | NA | Sun 5/9/21 | Tue 1/3/22 | 30 days | | | | | | | |
| 081 | Average 2 layers of shoring Open Excavation | 17 days | | 17 days | 0% | Tue 5/10/21 | Mon 25/10/2 | 1 NA | NA | Mon 20/9/21 | Mon 11/10/21 | -11 days 3 days | 1076 | | | | | | |
| 082 | Blinding | 2 days | | 2 days | 0% | Tue 26/10/21 | Wed 27/10/2 | | NA | Tue 12/10/21 | | -11 days 0 days | | | | | | | |
| 083 | South Depress Road - Formworks Design and Method Statement Submission | 0 days | | 0 days | 0% | Mon 2/8/21 | Mon 2/8/21 | | NA | Sun 5/9/21 | Sun 5/9/21 | 34 days 1 day | | | | 2/8 | | | |
| 084 | South Depress Road - Formworks Design and Method Statement Comment & | 40 days | | 40 days | 0% | Mon 2/8/21 | Fri 10/9/21 | | NA | Sun 5/9/21 | Thu 14/10/21 | | 1083 | | | | | | |
| 085 | Appraoval Base Slab - 3 bays. Prod. Rate: 12d/team/bay include pipe laying, 2 teams | | | | 0% | Thu 28/10/21 | | | | Fri 15/10/21 | Thu 14/10/21 | | 1082,1084,314 | | | | | | |
| | | 12 days | | 12 days | | | | | NA | | | | | | | | | | |
| 086 | Wall - 3 bays. Prod. Rate: 2 level of shoring 12d/bay/level/team. 2 teams | 12 days | | 12 days | 0% | Fri 12/11/21 | Thu 25/11/21 | | NA | Sat 30/10/21 | Fri 12/11/21 | -11 days 0.5day | 1085SS+13 days | | | 71 | | | |
| 087 | Wall - 3 bays. Prod. Rate: 2 level of shoring 12d/bay/level/team. 2 teams | 12 days | | 12 days | 0% | Sat 20/11/21 | Fri 3/12/21 | | NA | Mon 8/11/21 | Sat 20/11/21 | -11 days 0.5day | 1086SS+7 days | | | | | | |
| 088 | Backfill & extract sheet pile | 19 days | | 19 days | 0% | Fri 26/11/21 | Fri 17/12/21 | | NA | Fri 14/1/22 | Tue 8/2/22 | 39 days 1 day | 1086 | | | | | | |
| 089 | Curing and Formwork Ramoval | 19 days | | 19 days | 0% | Fri 26/11/21 | Fri 17/12/21 | | NA | Thu 30/12/21 | Fri 21/1/22 | 27 days 1 day | 1086 | | | | | | |
| 090 | Emergency walkway & median barrier installation | 6 days | 0 days | 6 days | 0% | Sat 18/12/21 | Fri 24/12/21 | NA | NA | Wed 9/2/22 | Tue 15/2/22 | 39 days 2 days | 1086,1088,323 | | | | | | |
| 091 | Pavement work | 6 days | 0 days | 6 days | 0% | | Tue 4/1/22 | NA | NA | Wed 16/2/22 | Tue 22/2/22 | 39 days 1 day | 1090 | | | | | | |
| 092 | Parapet installation | 6 days | 0 days | 6 days | 0% | Wed 5/1/22 | Tue 11/1/22 | NA | NA | Wed 23/2/22 | Tue 1/3/22 | 39 days 1 day | 1090,1088,1091 | | | | | | |
| 093 | 5.0 CH1386-1950 (564m): Utlity Laying Team 2 (by Others) | 332 days | 0 days | 332 days | 0% | Sat 17/4/21 | Mon 14/3/22 | NA | NA | Thu 19/8/21 | Tue 1/3/22 | -13 days | | | | | | | |
| 094 | CLP (132kV) | 30 days | 0 days | 30 days | 0% | Fri 14/1/22 | Sat 12/2/22 | NA | NA | Mon 31/1/22 | Tue 1/3/22 | 17 days 1 day | 946,990,1027 | | | | | | |
| 095 | HKCG | 18 days | 0 days | 18 days | 0% | Fri 14/1/22 | Mon 31/1/22 | NA | NA | Tue 25/1/22 | Fri 11/2/22 | 11 days 1 day | 946,990,1027 | | | | | | |
| | 1 Drog with Drogress Task | Summary | | | Inactive N | filestone 🔷 | | Duration-o | nlv | | Start-only | Е | External Miles | tone ♦ | <u> </u> | Critical Split | <u></u> | | |
| tle: Rev.1° s of 22-N | 1 Prog with Progress | Project Sun | nmary | | Inactive S | | | | mmary Rollup | | Finish-only | 3 | Deadline | | | Progress | | | |

| | | | | | | | Con | tract No. El | D/2018/01 KT | D Project | | | | | | | | | | | |
|----------------------------|--|--------------|--------------------|-----------------------|------------------------|--------------|-------------------------|--------------|---------------|--------------|---------------|--------------------|------------------------|-----------|--|----------|--------------------|-----------|---------------|--|------------|
| D Task | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | | | Actual Finish | | Late Finish | Total TRA Slack | | 2020 | 04 | 2021 | 72 04 | | 022 | | 2023 |
| 1096 | HGC | 15 days | | 15 days | 0% | Fri 21/1/22 | Fri 4/2/22 | NA | NA | Tue 1/2/22 | Tue 15/2/22 | 11 days 1 day | 1095SS+7 days, | 2 Q3 | Q4 Q | 1 Q2 | Q3 Q4 | Q1 Q2 | Q5Q2 | Q1 Q2 | 2 Q3 C |
| 1097 | CATV | 13 days | 0 days | 13 days | 0% | Fri 28/1/22 | Wed 9/2/22 | NA | NA | Tue 8/2/22 | Sun 20/2/22 | 11 days 1 day | 1096SS+7 days | | | | | | | | |
| 1098 | Towngas telecom | 15 days | 0 days | 15 days | 0% | Fri 4/2/22 | Fri 18/2/22 | NA | NA | Tue 15/2/22 | Tue 1/3/22 | 11 days 1 day | 1097SS+7 days | | | | 4 | | | | |
| 1099 | North & South Depress Raod and Underpass: Finishing and E&M Works | 120 days | 0 days | 120 days | 0% | Tue 5/10/21 | Tue 1/3/22 | NA | NA | Tue 5/10/21 | Tue 1/3/22 | 0 days | | | | | | | | | |
| 1100 | Finishing & Fitting Out Work, and E&M Works Installation | 120 days | 0 days | 120 days | 0% | Tue 5/10/21 | Tue 1/3/22 | NA | NA | Tue 5/10/21 | Tue 1/3/22 | 0 days 8 days | 306,271,323,108 | | | | | | | | |
| 1101 | Pump Room Next to Underpass: Finishing and E&M Works | 158 days | 0 days | 158 days | 0% | Sat 17/4/21 | Tue 26/10/21 | NA | NA | Thu 19/8/21 | Tue 1/3/22 | 102 days | | | | | | | | | |
| 1102 | Finishing Works and E&M installation | 73 days | 0 days | 73 days | 0% | Sat 17/4/21 | Thu 15/7/21 | NA | NA | Thu 19/8/21 | Mon 15/11/21 | 102 days 3 days | 1042FS+36 days | | | + | | | | | |
| 1103 | Pump Installation | 60 days | 0 days | 60 days | 0% | Fri 16/7/21 | Fri 24/9/21 | NA | NA | Tue 16/11/21 | Thu 27/1/22 | 102 days 2 days | 1102 | | | | | | | | |
| 1104 | Testing and Commissioning | 25 days | 0 days | 25 days | 0% | Sat 25/9/21 | Tue 26/10/21 | NA | NA | Fri 28/1/22 | Tue 1/3/22 | 102 days 1 days | 1102,1103 | | | | <u> </u> | <u></u> . | | | |
| 1105 | Planned Completion for Section 1 | 0 days | 0 days | 0 days | 0% | Mon 14/3/22 | Mon 14/3/22 | NA | NA | Tue 1/3/22 | Tue 1/3/22 | -13 days | 1408,1414,1068, | | | | | 14/3 | | | |
| 1106 | Sections 2,4 and 8 | 824 days | 0 days | 824 days | 0% | Mon 10/8/20 | Wed 17/5/23 | NA | NA | Mon 17/8/20 | Wed 29/5/24 | 6 days | | | | | | | | | |
| 1107 | Offsite 14 units of precast box culvert with outfall fabrication | 100 days | 0 days | 100 days | 0% | Mon 19/10/20 | Fri 19/2/21 | NA | NA | Thu 3/12/20 | Thu 8/4/21 | 38 days 30 days | 406,414 | | | | | | | | |
| 1108 | MDN application | 45 days | 0 days | 45 days | 0% | Mon 26/10/20 |) Wed 9/12/20 | NA | NA | Sun 21/1/24 | Tue 5/3/24 | 1182 d 1 days | | | | | | | | | |
| 1109 | Demolition of Existing Seawall an Construction of Water Channel (Ch 0 to Ch30) | 67 days | 0 days | 67 days | 0% | Thu 10/12/20 | Thu 4/3/21 | NA | NA | Wed 6/3/24 | Wed 29/5/24 | 962 days | | | | 1 | | | | | |
| 1110 | Installation of Silt Curtain with Concrete Sinkers | 6 days | | 6 days | 0% | | Wed 16/12/20 | | NA | Thu 23/5/24 | Wed 29/5/24 | 1023 d 1 day | 1108 | | | | | | | | |
| 1111 | Demolition of Existing Seawall | 37 days | | 37 days | 0% | Thu 10/12/20 | | | NA | Wed 6/3/24 | | 962 days 1 day | 1108 | | | | | | | | |
| 1112 | Grade 200 rock filing and placing levelling stone | 30 days | | 30 days | 0% | Tue 26/1/21 | | NA | NA | Tue 23/4/24 | | 962 days 1 day | 1111 | | | | | | | | |
| 1113 | CH86 to CH70 ELS Works | 136 days | | 136 days | 0% | Mon 10/8/20 | | | NA | Mon 17/8/20 | Sat 27/2/21 | 6 days | | | <u> </u> | | | | | | |
| 1114 | Temporary Works Design Preparation | 25 days | | 25 days | 0% | Mon 10/8/20 | | | NA | Mon 17/8/20 | Mon 14/9/20 | 6 days 1 days | | | | | | | | | |
| 1115 | Comment by PM | 25 days | | 25 days | 0% | Tue 8/9/20 | Thu 8/10/20 | | NA NA | Tue 15/9/20 | Thu 15/10/20 | 6 days 1 days | 1114 | | | | | | | | |
| 1116 | Sheetpiling Installation with Grouting & Pumping Test (56m long on plan) | 50 days | | 50 days | 0% | Fri 16/10/20 | Mon 14/12/20 | | NA NA | Fri 16/10/20 | | 0 days 1 day | 1420,1423,1115 | | | | | | | | |
| 1117 | Excavation with Shoring Installation (1350 cu.m., 150 cu.m./d) | 12 days | | 12 days | 0% | Tue 15/12/20 | | | NA | Tue 22/12/20 | Thu 7/1/21 | 6 days 3 day | 1116 | | | | | | | | |
| 1117 | Preparation of formation and laying of blinding layer | 12 days | | 12 days 18 days | 0% | | Thu 21/1/21 | | NA | Thu 4/2/21 | Sat 27/2/21 | 29 days 0.5 day | 1117 | | | | | | | | |
| 1119 | CH70 to CH30 ELS Works | | | | 0% | | Thu 21/1/21 Thu 7/1/21 | NA NA | | Mon 16/11/20 | Thu 7/1/21 | | 111/ | | | | | | | | |
| | | 43 days | | 43 days | | | | | NA NA | | | 0 days | 111600 25 3 | | | | | | | | |
| 1120 | Sheetpiling Installation (80m on plan) Excavation with Shoring Installation (4500 cu.m., 160 cu.m./d x 1 team) and | 14 days | | 14 days | 0% | | Tue 1/12/20 | | NA | Mon 16/11/20 | Tue 1/12/20 | 0 days 0.5 day | | | | | | | | | |
| 1121 | Excavation with Shoring Installation (4500 cu.m., 160 cu.m./d x 1 team) and Preparation of Formation and Laying of Blinding Layer | 29 days | 0 days | 29 days | 0% | wea 2/12/20 | Thu 7/1/21 | INA | NA | wed 2/12/20 | 111U //1/21 | 0 days 1 day | 1120 | | | | | | | | |
| 1122 | DCS Seawater Intake (Insitu Section Bay 15) | 41 days | 0 days | 41 days | 0% | Fri 8/1/21 | Sat 27/2/21 | NA | NA | Fri 8/1/21 | Sat 27/2/21 | 0 days 1 days | | | | t | | | | | |
| 1123 | Construction of Cast in-situ Box Culvert with feeder pipe installation with | 41 days | 0 days | 41 days | 0% | Fri 8/1/21 | Sat 27/2/21 | NA | NA | Fri 8/1/21 | Sat 27/2/21 | 0 days 1 day | 1117,1121 | | | - | | | | | |
| | Connection to Extisting Box Culvert(Bay 15, approx. 12m long) | | | | | | | | | | | | | | | | | | | | |
| 1124 | Precast Units Installation | 151 days | | 151 days | 0% | Mon 1/3/21 | Tue 31/8/21 | | NA | Mon 1/3/21 | Tue 30/5/23 | 0 days | 4400 (111 | | | | 7 | | | | |
| 1125 | Preparation for Connecting Precast Units and Cast In-situ Bay 15 | 6 days | | 6 days | 0% | Mon 1/3/21 | Sat 6/3/21 | NA | NA | Mon 1/3/21 | Sat 6/3/21 | 0 days 1 days | 1123,1118 | | | | | | | | |
| 1126 | Installation of 14 precast units with feeder pipe installation (2.5 days per unit) | 37 days | | 37 days | 0% | Mon 8/3/21 | Thu 22/4/21 | | NA | Mon 8/3/21 | Thu 22/4/21 | 0 days 2 days | 1125,1107SS+75 days | | | | | | | | |
| 1127 | Inspection Shaft Construction and Backfilling Upto +2.0mPD + Feeder Pipe Laying + Backfilling upto Final Formation Level | 33 days | 0 days | 33 days | 0% | Fri 23/4/21 | Wed 2/6/21 | NA | NA | Fri 23/4/21 | Wed 2/6/21 | 0 days 0.5 day | 1126 | | | | | | | | |
| 1128 | Seawall Reinstatement | 75 days | 0 days | 75 days | 0% | Thu 3/6/21 | Tue 31/8/21 | NA | NA | Sat 25/2/23 | Tue 30/5/23 | 518 days 2 days | 1127 | | | | | | | | |
| 1129 | Section 4: Part 2E | 225 days | | 225 days | 0% | Mon 15/8/22 | | | NA | Sat 10/9/22 | Tue 30/5/23 | 10 days | | | | | | | | <u> </u> | |
| 1130 | Abandon Existing DCS - Temp. Works Design and Method Statement Submission | | - | 0 days | 0% | Mon 15/8/22 | | | NA | Sat 10/9/22 | Sat 10/9/22 | 26 days 1 day | | | | | | | ♦ 1078 | | |
| 1131 | Abandon Existing DCS - Temp. Works Design and Method Statement Comment & | | _ | 35 days | 0% | Mon 15/8/22 | | | NA | Sat 10/9/22 | Fri 14/10/22 | 26 days 1 day | 1130 | | | | | | | | |
| 1132 | Appraoval Part 2E - Abandon of existing DCS | 185 days | - | 185 days | 0% | Mon 3/10/22 | | | NA | Sat 15/10/22 | Tue 30/5/23 | 10 days 9 days | 20,1131 | | | | | | | | |
| 1133 | Planned Completion for Section 4 | 0 days | | 0 days | 0% | Wed 17/5/23 | | | NA | Tue 30/5/23 | Tue 30/5/23 | 10 days | 1132 | | | | | | | | 17/5 |
| 1134 | Section 8: Part 2A - Diversion & abandon of extg DCS box culvert | 194 days | | 194 days | 0% | Thu 1/4/21 | Wed 24/11/2 | | NA | Fri 9/4/21 | Thu 2/12/21 | 4 days | | | | | | | | | 1113 |
| 1134 | Diversion & Abandon of Existing DCS Box Culvert - Temp. Works Design and | 0 days | - | 0 days | 0% | Thu 1/4/21 | Thu 1/4/21 | NA NA | NA NA | Fri 9/4/21 | Fri 9/4/21 | 8 days 1 day | | | | 1/4 | | | | | |
| 1136 | Diversion & Adamson of Existing DCS Box Culvert - Temp. Works Design and Method Statement Submission Diversion & Abandon of Existing DCS Box Box Culvert - Temp. Works Design and | | | 21 days | 0% | Thu 1/4/21 | Wed 21/4/21 | | NA NA | Fri 9/4/21 | Thu 29/4/21 | | 1135 | | | 1/4 | | | | | |
| 1170 | Diversion & Adamdon of Existing DCS Box Box Curvert - Temp. works Design and Method Statement Comment & Appraoval | ı 21 udys | ouays | Z1 uays | U /U | 1110 1/4/21 | w cu 21/4/21 | IVA | INA | 111 7141 21 | 111u 27/4/21 | 8 days 1 day | 1133 | | | | | | | | |
| 1137 | TTA Implementation | 1 day | 0 days | 1 day | 0% | Thu 22/4/21 | Thu 22/4/21 | NA | NA | Fri 30/4/21 | Fri 30/4/21 | 7 days 0.5 day | 1136 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | III |
| Title: Dr. 1 | 1 Programith Progress Task | Summary | | | Inactive N | filestone | > | Duration- | only | | Start-only | Е | External | Milestone | \$ | | Critical Spli | it | | | |
| litle: Rev.1 as of 22-N | 1 Prog with Progress Split | Project Sum | | | Inactive S | ummary | | Manual S | ummary Rollup | | Finish-only | 3 | Deadline | | • | | Progress | | | | |
| // | Milestone • | Inactive Tas | k | | Manual Ta | ask | | Manual S | ummary | | External Tasl | CS | Critical | | | | Manual Prog | gress | | | |

| | | | | | | | Con | tract No. ED/ | /2018/01 K | TD Project | | | | | | | | | | | | | | | |
|------------|---|------------------------|--------------------|-----------------------|------------------------|--------------|--------------|-------------------------|---------------------|---------------|------------------------|----------------|---------|-----------------|--------------------|---------------------------------|-------------|---|--------------------|-------|------|------------|------|--------------|----------|
| Task | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | sh Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 Q2 Q3 | 04 | 01 0 | 2021 | l O4 | 01 | 2022 | | 04 (| 2 21 Q2 | 2023 |
| .138 | Sheetpile Installation | 25 days | | 25 days | 0% | Fri 23/4/21 | Mon 24/5/21 | NA | NA | Mon 3/5/21 | Tue 1/6/21 | | 1 day | 1137 | <u>χ</u> | | | | ¥* | 71 | ĬIII | | | 1 1/2 | 1 23 |
| 1139 | Excavation with Shoring | 52 days | 0 days | 52 days | 0% | Tue 25/5/21 | Mon 26/7/21 | NA | NA | Wed 2/6/21 | Tue 3/8/21 | 7 days | 1 day | 1138 | | | | | | | | | | | |
| 1140 | Diversion of existing DCS box culvert | 26 days | 0 days | 26 days | 0% | Tue 27/7/21 | Wed 25/8/21 | NA | NA | Wed 4/8/21 | Thu 2/9/21 | 7 days | 2 days | 1137,410,1139 | | | | | | | | | | | |
| 1141 | Break up existing box culvert (4 walls) + top slab | 35 days | 0 days | 35 days | 0% | Thu 26/8/21 | Thu 7/10/21 | NA | NA | Fri 3/9/21 | Sat 16/10/21 | 7 days | 2 days | 1140 | | | | | i Th | | | | | | |
| 1142 | Construct new walls at existing box culvert | 20 days | 0 days | 20 days | 0% | Fri 8/10/21 | Mon 1/11/21 | NA | NA | Mon 18/10/21 | Tue 9/11/21 | 7 days | 1 days | 1141 | | | | | 1 | | | | | | |
| 1143 | Abandon existing DCS box culvert | 20 days | 0 days | 20 days | 0% | Tue 2/11/21 | Wed 24/11/2 | 1 NA | NA | Wed 10/11/21 | Thu 2/12/21 | 7 days | 1 days | 1142 | | | | | T. | | | | | | |
| 1144 | Planned Completion for Section 8 | 0 days | 0 days | 0 days | 0% | Wed 24/11/21 | Wed 24/11/2 | 1 NA | NA | Thu 2/12/21 | Thu 2/12/21 | 7 days | 0 days | 1143 | | | | | ₽ | 94/11 | | | | | |
| 145 \$ | Section 3 | 729 days | | 729 days | 0% | Thu 16/5/19 | Tue 26/10/21 | | NA | Tue 2/6/20 | Tue 2/11/21 | 6 days | | | | | | | | | | | | | |
| 146 | Part 2C - Lift LT3 & LT4 | 729 days | | 729 days | 0% | Thu 16/5/19 | Tue 26/10/21 | | NA | Tue 2/6/20 | Tue 2/11/21 | 6 days | | | | | | | | | | | | | |
| 147 | Access Date - Part 2A,2C | 0 days | | 0 days | 0% | Tue 2/6/20 | | NA | NA | Tue 2/6/20 | Tue 2/6/20 | 0 days | 0 days | 4FS+369 days | 2/6 | | | | | | | | | | |
| 148 | Mobilization of plant and materials | 15 days | | 15 days | 0% | Thu 16/5/19 | Sat 1/6/19 | NA | NA | Sat 4/7/20 | Tue 21/7/20 | 337 days | | 11 51 505 days | | | | | | | | | | | |
| | | | | | | | | | | | | | | 1147 | | | | | | | | | | | |
| 149 | TTA implementation | 4 days | | 4 days | 0% | Tue 2/6/20 | Fri 5/6/20 | NA | NA | Fri 17/7/20 | Tue 21/7/20 | 37 days | 1 day | 1147 | | | | | | | | | | | |
| 150 | Carry out Titpit and Identify Underground Utilities location | 12 days | | 12 days | 0% | Mon 15/6/20 | Fri 26/6/20 | NA | NA | Mon 22/6/20 | Fri 3/7/20 | 7 days | | 4450 | | | | | | | | | | | |
| 151 | Discuss with Relevant Utilities Undertakers | 18 days | | 18 days | 0% | Sat 27/6/20 | Tue 14/7/20 | | NA | Sat 4/7/20 | Tue 21/7/20 | 7 days | | 1150 | | | | | | | | | | | |
| 152 | Slew CLP Cable and Abandon Telecom Cable (tentative) | 75 days | 0 days | 75 days | 0% | Wed 15/7/20 | Mon 12/10/20 | | NA | Wed 22/7/20 | Mon 19/10/20 | 6 days | 4 days | 1148,1149,1151 | | | | | | | | | | | |
| 153 | Lift Tower Foundation - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Tue 4/8/20 | Tue 4/8/20 | NA | NA | Tue 15/9/20 | Tue 15/9/20 | 42 days | 1 day | | 4 | 8 | | | | | | | | | |
| 154 | Lift Tower Foundation - Temp. Works Design and Method Statement Comment & Appraoval | 35 days | 0 days | 35 days | 0% | Tue 4/8/20 | Mon 7/9/20 | NA | NA | Tue 15/9/20 | Mon 19/10/20 | 42 days | 1 day | 1153 | | | | | | | | | | | |
| 155 | Intall Sheetpile, ELS, Excavation and Temp. Works Installation (Shoring, Drainage & Slope Protection) | 38 days | 0 days | 38 days | 0% | Tue 13/10/20 | Thu 26/11/20 | NA | NA | Tue 20/10/20 | Thu 3/12/20 | 6 days | 2 days | 1154,1152 | | | | | | | | $\{\ \ \}$ | | | |
| 156 | • / | 38 days | 0 days | 38 days | 0% | Fri 27/11/20 | Wed 13/1/21 | NA | NA | Fri 4/12/20 | Wed 20/1/21 | 6 days | 2 days | 1148,1152,175,1 | | | | | | | | | | | |
| 157 | Sheepile Extraction & Backilling | 13 days | 0 days | 13 days | 0% | Thu 14/1/21 | Thu 28/1/21 | NA | NA | Thu 21/1/21 | Thu 4/2/21 | 6 days | 1 day | 1156 | | | | | | | | | | | |
| 158 | Lift Tower - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 2/11/20 | Mon 2/11/20 | NA | NA | Fri 1/1/21 | Fri 1/1/21 | 60 days | 1 day | | | 4 2/11 | | | | | | | | | |
| 159 | Lift Tower - Temp. Works Design and Method Statement Comment & Appraoval | 35 days | 0 days | 35 days | 0% | Mon 2/11/20 | Sun 6/12/20 | NA | NA | Fri 1/1/21 | Thu 4/2/21 | 60 days | 1 day | 1158 | | | | | | | | | | | |
| 1160 | Lift Shaft Tower: 3 Lifts x 20 day/Lift, Falsework & Formwork Erection, Rebar | 63 days | 0 days | 63 days | 0% | Fri 29/1/21 | Mon 19/4/21 | NA | NA | Fri 5/2/21 | Mon 26/4/21 | 6 days | 3 days | 1156,1159,1157 | | | | | | | | | | | |
| 161 | Fixing & Concreting Lift installation (LT3 & LT4) | 90 days | 0 days | 90 days | 0% | Tue 20/4/21 | Fri 6/8/21 | NA | NA | Tue 27/4/21 | Fri 13/8/21 | 6 days | 5 days | 1160,713 | | | | | | | | | | | |
| 162 | E & M installation | 30 days | 0 days | 30 days | 0% | Sat 7/8/21 | Fri 10/9/21 | NA | NA | Sat 14/8/21 | Fri 17/9/21 | 6 days | 3 days | 1161 | | | | | | | | | | | |
| 163 | Louvers and Glazing Installation | 26 days | 0 days | 26 days | 0% | Fri 21/5/21 | Mon 21/6/21 | NA | NA | Sat 14/8/21 | Mon 13/9/21 | 71 days | 2 days | 1160FS+25 days | | | | | | | | | | | |
| 164 | Parapet Installation and Finishing Works | 40 days | | 40 days | 0% | Tue 22/6/21 | | NA | NA | Tue 14/9/21 | Tue 2/11/21 | | 4 days | 1163 | | | | | | | | | | | |
| 165 | CLP Meter Installation | 0 days | | 0 days | 0% | Mon 1/2/21 | Mon 1/2/21 | | NA | Fri 20/8/21 | Fri 20/8/21 | 200 days | 1 | | | | 112 | | | | | | | | |
| 1166 | EMSD Submission Form 5 for Lift Inspection | | 0 days | 0 days | 0% | Mon 1/3/21 | Mon 1/3/21 | | NA | Fri 20/8/21 | Fri 20/8/21 | | 0.5 day | 1165 | | | 1/2 | | | | | | | | |
| 167 | EMSD Lift Inspection | | 0 days | 0 days | 0% | Sun 14/3/21 | Sun 14/3/21 | | NA | Fri 3/9/21 | Fri 3/9/21 | 172 days | 1 | 1166FS+14 days | | | 1/3 3 14 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | |
| | - | | | | | | | | | | | | | - | | | | /b | | | | | | | |
| 1168 | Issuance of Lift Use Permit | 0 days | 1 | 0 days | 0% | Mon 29/3/21 | Mon 29/3/21 | | NA | Sat 18/9/21 | Sat 18/9/21 | 172 days | 1 | 1167FS+15 days | | | | | | | | | | | |
| 1169 | Testing & commissioning with Statutory Inspection | 36 days | | 36 days | 0% | Sat 11/9/21 | Tue 26/10/21 | | NA | Sat 18/9/21 | Tue 2/11/21 | 6 days | | 1162,1168 | | | | | | | | | | | |
| 1170 | Footpath | 28 days | | 28 days | 0% | Tue 20/4/21 | Mon 24/5/21 | | NA | Tue 8/6/21 | Mon 12/7/21 | 40 days | | 1160 | | | | | | | | | | | |
| 171 | Open Space within Part 2C | 94 days | | 94 days | 0% | Tue 25/5/21 | Mon 13/9/21 | | NA | Tue 13/7/21 | Tue 2/11/21 | 40 days | | 1170,1230 | | | | | | | | | | | |
| 172 | Planned Completion for Section 3 | 0 days | | 0 days | 0% | Tue 26/10/21 | Tue 26/10/21 | | NA | Tue 2/11/21 | Tue 2/11/21 | | 0 days | 1171,1168,1169, | | | | | 9 426/ | 10 | | | | | |
| 173 \$ | Sections 5 and 9: Noise Barrier Installation | 380 days | 6.83 days | 373.17 days | 0% | Fri 20/3/20 | Sat 3/7/21 | Fri 20/3/20 | NA | Fri 20/3/20 | Mon 5/7/21 | 1 day | 1 day | | | | | | | | | | | | |
| 1174 | 1.0 Noise Barrier Shop Drawing Preparation, Offsite Fabrication | 141 days | 20.86 days | 120.14 days | 0% | Mon 6/4/20 | Thu 24/9/20 | Mon 6/4/20 | NA | Mon 6/4/20 | Mon 7/12/20 | 60 days | | - | | | | | | | | | | | |
| 1175 | CNP and TTA available | 0 days | 0 days | 0 days | 0% | Wed 24/6/20 | Wed 24/6/20 | NA | NA | Thu 20/8/20 | Thu 20/8/20 | 47 days | 1 day | | 4 24/6 | | | | | | | | | | |
| 1176 | Expose the Extisting Noise Barrier Foundation | 70 days | 25 days | 45 days | 36% | Mon 6/4/20 | Fri 3/7/20 | Mon 6/4/20 | NA | Mon 6/4/20 | Tue 7/7/20 | 3 days | 1 day | | | | | | | | | | | | |
| 1177 | Implement TTA | 2 days | 0 days | 2 days | 0% | Mon 13/7/20 | Tue 14/7/20 | NA | NA | Wed 18/11/20 | Thu 19/11/20 | 107 days | 0.5 day | | | | | | | | | | | | |
| 178 | Expose the Extisting Noise Barrier Foundation under Existing Footpath | 15 days | 0 days | 15 days | 0% | Wed 15/7/20 | Fri 31/7/20 | NA | NA | Fri 20/11/20 | Mon 7/12/20 | 107 days | 1 day | 1177 | | $\parallel \parallel \parallel$ | | | | | | | | | |
| 179 | Carry out the Site Survey for Existing Holding Down Bolt at Existing Landscaped | 6 days | 0 days | 6 days | 0% | Wed 24/6/20 | Thu 2/7/20 | NA | NA | Thu 20/8/20 | Wed 26/8/20 | 47 days | 1 day | 1175 | | | | | | | | | | | |
| 1180 | Deck Noise Barrier Shop Drawings Preparation | 30 days | 0 days | 30 days | 0% | Fri 31/7/20 | Thu 3/9/20 | NA | NA | Fri 21/8/20 | Thu 24/9/20 | 18 days | 0.5 day | 1176FF+18 days | | | | | | | | | | | |
| 1181 | Noise Barrier Shop Drawings Comment by PM | 18 days | | 18 days | 0% | Fri 4/9/20 | Thu 24/9/20 | NA | NA | Fri 25/9/20 | Sat 17/10/20 | 18 days | 0.5 day | 1180 | | | | | | | | | | | |
| 1182 | PMAA Panel Material Sample Submission | 0 days | | 0 days | 0% | Sat 2/5/20 | Sat 2/5/20 | NA | NA | Sat 6/6/20 | Sat 6/6/20 | 30 days | 1 | | ♠ 2/5 | | | | | | | | | | |
| | | | | <u> </u> | | | | | | | | | | | | | | | | | | | Щ | | <u>Ш</u> |
| | I Prog with Progress | Summary Project Sun | nmary | | Inactive M Inactive Su | | | Duration-or Manual Sur | nly nmary Rollup | | Start-only Finish-only | | [] | Extem Deadli | al Milestone ne | . | | | Critical Sprogress | | - | | | | |
| as of 22-N | IaV-2U | Inactive Ta | | | Manual Ta | | | Manual Sur | | | External Tas | sks | | Critica | | | | | Manual P | | _ | | | _ | |

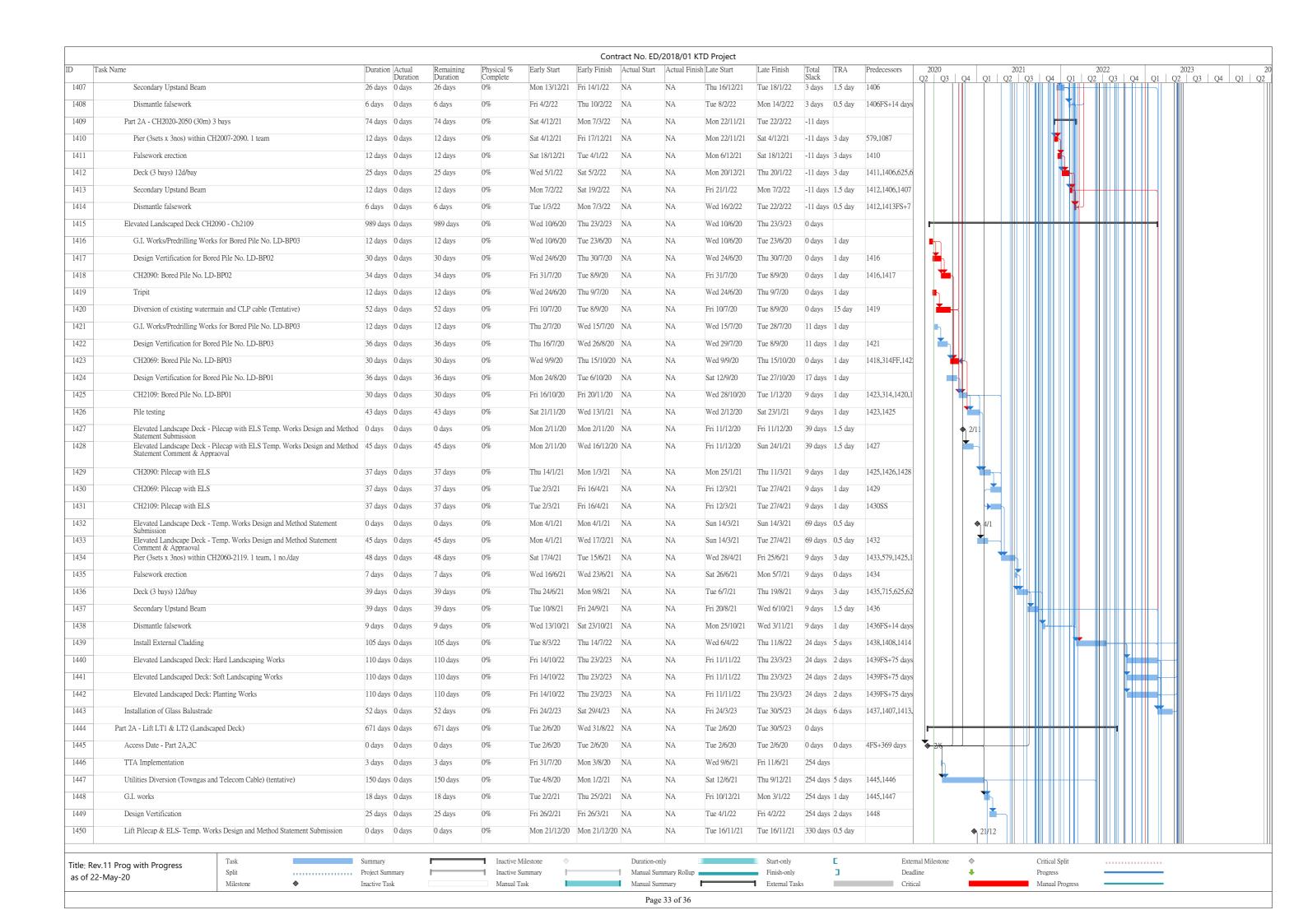
| | | | | | | | Con | iliact No. LD | /2010/01 K | TD Project | | | | | | | | | | | | | |
|----------|--|-------------|--------------------|-----------------------|------------------------|--------------------------|--------------|---------------|--------------|---------------|---------------------------|----------------|---------|-----------------|-------------|----------|------|--------|--------------|----------|----------|-------|---|
| Task | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | sh Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 | Q4 Q | 202 | 21 | 04 | Q1 Q2 | 2022 | 3 0 | |
| 33 | PMAA Panel Material Comment and Approval by PM | 18 days | | 18 days | 0% | Sat 2/5/20 | Fri 22/5/20 | NA | NA | Sat 6/6/20 | Sat 27/6/20 | 30 days | 1 days | 1182 | Z2 Q3 | | 1 Q2 | | | 4 4 | | | Ш |
| 34 | PMAA Panel Material Coloring Sample Submission | 0 days | 0 days | 0 days | 0% | Thu 4/6/20 | Thu 4/6/20 | NA | NA | Mon 29/6/20 | Mon 29/6/20 | 20 days | 1 days | 1183 | 4/6 | | | | | | | | |
| 35 | PMAA Panel Material Coloring Sample Comment and Approval by PM | 10 days | 0 days | 10 days | 0% | Thu 4/6/20 | Mon 15/6/20 | NA | NA | Mon 29/6/20 | Fri 10/7/20 | 20 days | 1 days | 1184 | | | | | | | | | |
| 36 | Material Testing and Offsite Fabrication | 247 days | o days | 247 days | 0% | Mon 1/6/20 | Tue 2/2/21 | NA | NA | Wed 10/6/20 | Wed 17/2/21 | 9 days | | | | | | | | | | | |
| 37 | Holding Down Bolt Procurement | 61 days | 0 days | 61 days | 0% | Fri 5/6/20 | Tue 4/8/20 | NA | NA | Wed 10/6/20 | Sun 9/8/20 | 5 days | 1 days | | | | | | | | | | |
| 38 | Holding Down Bolt Testing | 45 days | 0 days | 45 days | 0% | Wed 5/8/20 | Fri 18/9/20 | NA | NA | Mon 10/8/20 | Wed 23/9/20 | 5 days | 1 day | 1187 | | | | | | | | | |
| 39 | Structural Steelwork Procurement | 81 days | | 81 days | 0% | Mon 1/6/20 | Thu 20/8/20 | | NA | Sat 13/6/20 | Tue 1/9/20 | 12 days | | | | | | | | | | | |
| 90 | Structural Steel Frame Material Testing | 46 days | | 46 days | 0% | Fri 21/8/20 | Mon 5/10/20 | | NA | Wed 2/9/20 | Sat 17/10/20 | 12 days | | 1189 | | | | | | | | | |
| 91 | Structural Steel Frame Fabrication and Delivery | 120 days | | 120 days | 0% | Tue 6/10/20 | Tue 2/2/21 | | NA | Sun 18/10/20 | Sun 14/2/21 | | | 1181,1190 | | | | | | | | | |
| 92 | · | | | | | | | | | | | 12 days | | | | | | | | | | | |
| | Structural Steel Frame Start Delivery to Stie | 0 days | | 0 days | 0% | Wed 25/11/20 | | | NA | Tue 8/12/20 | Tue 8/12/20 | 12 days | | 1191SS+51 days | | 25/11 | | | | | | | |
| 93 | Polymethyl Metharylate (PMMA) and Associated Aluminium Sub-frame Procurement | 121 days | | 121 days | 0% | Tue 16/6/20 | Wed 14/10/2 | | NA | Sat 11/7/20 | Sun 8/11/20 | 25 days | | 1185 | | | | | | | | | |
| 94 | Polymethyl Metharylate (PMMA) panel fabrication and delivery | 101 days | | 101 days | 0% | Thu 15/10/20 | Sat 23/1/21 | NA | NA | Mon 9/11/20 | Wed 17/2/21 | 25 days | 30 days | 1193,1181 | | | | | | | | | |
| 95 | Temp Works Design for Noise Barrier | 106 days | 0 days | 106 days | 0% | Sat 13/6/20 | Mon 19/10/2 | 0 NA | NA | Fri 19/6/20 | Sat 24/10/20 | 5 days | | | | 7 | | | | | | | |
| 96 | ELS Design Preparation for Noise Barrier with ICE | 18 days | 0 days | 18 days | 0% | Wed 17/6/20 | Thu 9/7/20 | NA | NA | Tue 23/6/20 | Wed 15/7/20 | 5 days | 1 day | | | | | | | | | | |
| 97 | ELS Design for Noise Barrier Comment by AECOM | 21 days | 0 days | 21 days | 0% | Fri 10/7/20 | Thu 30/7/20 | NA | NA | Thu 16/7/20 | Wed 5/8/20 | 6 days | 1 day | 1196 | | | | | | | | | |
| 98 | Temporary Works Platform Design Preparation | 36 days | 0 days | 36 days | 0% | Sat 13/6/20 | Mon 27/7/20 | NA | NA | Fri 19/6/20 | Sat 1/8/20 | 5 days | 1 day | | | | | | | | | | |
| 99 | Temporary Working Platform Design Submit for AECOM Comment | 19 days | 0 days | 19 days | 0% | Tue 28/7/20 | Tue 18/8/20 | NA | NA | Mon 3/8/20 | Mon 24/8/20 | 5 days | 1 day | 1198 | | | | | | | | | |
| 00 | Temporary Working Platform Fabrication | 51 days | 0 days | 51 days | 0% | Wed 19/8/20 | Mon 19/10/2 | 0 NA | NA | Tue 25/8/20 | Sat 24/10/20 | 5 days | 1 day | 1199 | | | | | | | | | |
| 01 | 2.0 Noise Barrier Footing and Modification Existing Column Stud | 184 days | 2.71 days | 181.29 days | 0% | Fri 20/3/20 | Sat 19/9/20 | Fri 20/3/20 | NA | Fri 20/3/20 | Wed 23/9/20 | 4 days | | _ | | | | | | | | | |
|)2 | Take up the Works Area | 1 day | 1 day | 0 days | 0% | Fri 20/3/20 | Fri 20/3/20 | Fri 20/3/20 | Fri 20/3/20 | Fri 20/3/20 | Fri 20/3/20 | 0 days | | | | | | | | | | | |
| 3 | Ground Investigation Works | 25 days | 0 days | 25 days | 0% | Sat 4/7/20 | Sat 1/8/20 | NA | NA | Wed 8/7/20 | Wed 5/8/20 | 3 days | 1 day | 1176 | | | | | | | | | |
|)4 | Diversion of Existing Utilities and ELS Construction | 42 days | | 42 days | 0% | Mon 3/8/20 | Sat 19/9/20 | NA | NA | Thu 6/8/20 | Wed 23/9/20 | | 1 day | 1197,1203 | | | | | | | | | |
|)5 | Fooing with Column Stud Construction | 61 days | | 61 days | 0% | Wed 23/9/20 | | | NA | Thu 24/9/20 | Mon 7/12/20 | 1 day | | | | | | | | | | | |
|)6 | Bay 1 & 3 Fooing with Column Stud and Modification of Existing Column Stud | 10 days | | | 0% | Wed 23/9/20 | Tue 6/10/20 | | NA | Thu 24/9/20 | Wed 7/10/20 | | 1 dov | 1188,1204,184FI | | | | | | | | | |
| | along Bay 1 & 3 | | | 10 days | | | | | | | | | 1 day | | | 1 | | | | | | | |
| 7 | Bay 2 & 4 Fooing with Column Stud and Modification of Existing Column along Bay 2&4 | 10 days | | 10 days | 0% | Wed 7/10/20 | Sat 17/10/20 | | NA | Thu 8/10/20 | Mon 19/10/20 | | 1 day | 1206 | | | | | | | | | |
| 08 | Bay 5 & 7 Fooing with Column Stud, Modification of Existing Stud along Bay 5&7 | | | 10 days | 0% | | Fri 30/10/20 | | NA | Tue 20/10/20 | Sat 31/10/20 | | 1 day | 1207 | | | | | | | | | |
| 9 | Bay 6 Fooing with Column Stud, Modification of Existing Stud along Bay 6 | 10 days | - | 10 days | 0% | | Wed 11/11/2 | | NA | Mon 2/11/20 | Thu 12/11/20 | 1 day | 1 day | 1208 | | | | | | | | | |
| .0 | Backfill and extract sheet pile | 21 days | 0 days | 21 days | 0% | Thu 12/11/20 | Sat 5/12/20 | NA | NA | Fri 13/11/20 | Mon 7/12/20 | 1 day | 1 day | 1209 | | | | | | | | | |
| .1 | Modification of Remaining Colum Stud | 50 days | 0 days | 50 days | 0% | Mon 7/12/20 | Fri 5/2/21 | NA | NA | Tue 8/12/20 | Sat 6/2/21 | 1 day | 1 day | | | | | | | | | | |
| 12 | Modification of Remaining Column Stud | 50 days | 0 days | 50 days | 0% | Mon 7/12/20 | Fri 5/2/21 | NA | NA | Tue 8/12/20 | Sat 6/2/21 | 1 day | 1 day | 1210,1178 | | | | | | | | | |
| 13 | Noise Barrier Installation | 258 days | 0 days | 258 days | 0% | Wed 19/8/20 | Sat 3/7/21 | NA | NA | Sat 26/9/20 | Mon 5/7/21 | 1 day | 1 day | | - | | | | | | | | |
| 14 | CNP Application | 31 days | 0 days | 31 days | 0% | Wed 19/8/20 | Fri 18/9/20 | NA | NA | Sat 26/9/20 | Mon 26/10/20 | 38 days | 1 day | 1199 | | + | | | | | | | |
| 15 | Temporary Platform Delivery to Site | 0 days | 0 days | 0 days | 0% | Mon 19/10/20 | Mon 19/10/2 | 0 NA | NA | Tue 27/10/20 | Tue 27/10/20 | 5 days | 0.5 day | 1200 | | 19/10 | | | | | | | |
| 16 | Temporary Platform On-site Assembly (Night Time) | 36 days | 0 days | 36 days | 0% | Tue 20/10/20 | Tue 1/12/20 | NA | NA | Tue 27/10/20 | Mon 7/12/20 | 5 days | 0.5 day | 1214,1215 | | | | | | | | | |
| 17 | Structural Steel Frame Installation | 119 days | o days | 119 days | 0% | Mon 7/12/20 | Wed 5/5/21 | NA | NA | Tue 8/12/20 | Thu 6/5/21 | 1 day | 1 day | 1192,1212SS,12 | | | | | | | | | |
| 18 | PMMA and Associated Aluminum Sub-frame Installation | 117 days | o days | 117 days | 0% | Fri 8/1/21 | Wed 2/6/21 | NA | NA | Sat 9/1/21 | Thu 3/6/21 | 1 day | 1 day | 1194SS+50 days | | | | 41 11 | | | | | |
| 19 | Lighting Installation | 25 days | 0 days | 25 days | 0% | Thu 3/6/21 | Sat 3/7/21 | NA | NA | Fri 4/6/21 | Mon 5/7/21 | 1 day | 1 day | 1218FF+25 days | | | | | | | | | |
| 20 | Rainwater downpipe | 25 days | | 25 days | 0% | Thu 3/6/21 | Sat 3/7/21 | NA | NA | Fri 4/6/21 | Mon 5/7/21 | | 1 day | 1218FF+25 days | | | | | | | | | |
| 21 | Bus Lay-by | 25 days | | 25 days | 0% | Thu 3/6/21 | Sat 3/7/21 | NA | NA | Fri 4/6/21 | Mon 5/7/21 | 1 day | | 1218FF+25 days | | | | | | | | | |
| | | | | | | | | | NA | Mon 5/7/21 | | | O dove | | | | | 200 | | | | | |
| 22 | Planned Completion for Section 5 & Section 9 | 0 days | | 0 days | 0% | Sat 3/7/21 | | NA | | | Mon 5/7/21 | | 0 days | 1218,1219,1220, | | | | 7 37 / | | | | | |
| | ection 6 | | ys 8.73 days | 1192.27 days? | | Thu 16/5/19 | | Thu 16/5/19 | | Thu 16/5/19 | Wed 29/5/24 | 298 da | | | | | | | | | | | |
| 24 | Fencing (15m/d) & Hoarding Erection (10m/d) | | | | 0% | Tue 15/10/19 | | | | Tue 15/10/19 | Fri 30/12/22 | 42 days | | | | | | | | | | | |
| 25 | Hoarding - Part 1 (~57m) | 51 days | | 51 days | 0% | Tue 1/12/20 | Mon 1/2/21 | | NA | Wed 21/9/22 | Mon 21/11/22 | | _ | 121,8 | | | | | | | | | |
| 26 | Fencing - Part 1 (758m) | 6 days | 0 days | 6 days | 0% | Sat 19/9/20 | Fri 25/9/20 | NA | NA | Mon 1/3/21 | Sat 6/3/21 | 130 days | 0 days | 121,8 | | | | | | | | | |
| 27 | Fencing - Part 2A (~458m) - 4 team | 12 days | 0 days | 12 days | 0% | Wed 3/2/21 | Fri 19/2/21 | NA | NA | Sat 5/2/22 | Fri 18/2/22 | 296 days | 1 days | 9,121,1147,1445 | | | | | | | | | |
| a. Pov 1 | 1 Prog with Progress | Summary | <u>'</u> | | Inactive M | filestone \diamondsuit | 1 | Duration-o | nly | | Start-only | | | Externa | l Milestone | ♦ | | Cri | itical Split | <u> </u> | <u> </u> | | |
| | ay-20 Split | Project Sur | nmary | | Inactive St | ummary | | Manual Su | mmary Rollup | | Finish-only External Tas | | 3 | Deadlin | ie | • | | Prc | ogress | gress | _ | | _ |



| | | | | | | | Con | tract No. ED, | /2018/01 K | TD Project | | | | | | | | | | | | _ |
|------------|---|-------------|--------------------|-----------------------|------------------------|----------------------------|--------------|---------------|--------------|----------------------------|--------------|--------------------|------------------|--------------|----------|-------------|--------|------------|--------|--|----|----------|
| Task N | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | h Late Start | Late Finish | Total TRA Slack | | 2020 2 03 | Q4 Q1 | 2021 | 03 1 | 04 | | 2022 2 Q3 | 04 | 01 |
| 72 | CH2000 - CH2060 (~84m, 2 M/H) - S.D. Rd | 14 days | | 14 days | 0% | Thu 6/1/22 | Fri 21/1/22 | NA | NA | Mon 5/9/22 | Wed 21/9/22 | 198 days 1 days | 1085SS+12 days | 2 Q3 | Q4 Q1 | , QZ | | | 1 Q2 | | Q4 | QI |
| 73 | CH2060 - CH2118.93 (~50.7m, 2 M/H) - Rd D3 | 14 days | 0 days | 14 days | 0% | Mon 4/10/21 | Wed 20/10/21 | NA | NA | Fri 3/12/21 | Sat 18/12/21 | 51 days 1 days | 1267 | | | | I A | | | | | , |
| 74 | CH100 - CH147 (~169m, 5 M/H) - L12 Road | 38 days | 0 days | 38 days | 0% | Mon 2/5/22 | Wed 15/6/22 | NA | NA | Sat 2/7/22 | Mon 15/8/22 | 51 days 3 days | 1275,1229 | | | | | | | | | , |
| 75 | Open Space & Promenade (~457m, 11 M/H) | 76 days | 0 days | 76 days | 0% | Tue 25/1/22 | Sat 30/4/22 | NA | NA | Tue 29/3/22 | Thu 30/6/22 | 51 days 6 days | 1504,458,459,12 | | | | | | 4 | $\ \cdot\ $ | | , |
| 76 | L12d Stormwater | 50 days | 0 days | 50 days | 0% | Thu 21/10/21 | Fri 17/12/21 | NA | NA | Wed 26/1/22 | Mon 28/3/22 | 80 days | 1273,490 | | | | 1 | | | 4 | | , |
| 77 | Sewerage Drainage | 496 days | 0 days | 496 days | 0% | Tue 1/12/20 | Wed 3/8/22 | NA | NA | Sat 29/5/21 | Wed 5/10/22 | 51 days | | | | | | | | | | , |
| 78 | Procurement of Sewerage Pipes | 90 days | 0 days | 90 days | 0% | Tue 1/12/20 | Sun 28/2/21 | NA | NA | Sat 29/5/21 | Thu 26/8/21 | 179 days 0.5 days | | | | | | | | | | , |
| 79 | Sewerage Drainage - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Wed 2/6/21 | Wed 2/6/21 | NA | NA | Sat 28/8/21 | Sat 28/8/21 | 87 days 0.5 days | | | | 4 2/ | 6 | | | | | , |
| 30 | Sewerage Drainage - Temp. Works Design and Method Statement Comment & | 21 days | 0 days | 21 days | 0% | Wed 2/6/21 | Tue 22/6/21 | NA | NA | Sat 28/8/21 | Fri 17/9/21 | 87 days 0.5 days | 1279 | | | | | | | | | , |
| 1 | Appraoval CH1000 - CH1087 (~68m, 3 M/H) | 19 days | 0 days | 19 days | 0% | Tue 15/6/21 | Wed 7/7/21 | NA | NA | Fri 27/8/21 | Fri 17/9/21 | 62 days 1 days | 428,451,465,466 | | | | | | | | | , |
| 2 | CH1087 - CH1189.4 (~47m, 1 no M/H) | 14 days | 0 days | 14 days | 0% | Sat 4/9/21 | Mon 20/9/21 | NA | NA | Sat 18/9/21 | Wed 6/10/21 | 12 days 1 days | 1265,1278,1280, | | | | | | | | | , |
| 33 | CH100 - CH147 (~156m, 6 M/H) - L12 Road | 41 days | | 41 days | 0% | Thu 16/6/22 | Wed 3/8/22 | NA | NA | Tue 16/8/22 | Wed 5/10/22 | 51 days 3 days | 1274,1280,1275, | | | | | | | | | , |
| | Underground Watermain | 629 days | | 629 days | 0% | Tue 15/12/20 | Fri 27/1/23 | | NA | Fri 14/5/21 | Thu 16/3/23 | 41 days | 127 1,1200,1273, | | | | | | | | | <u>.</u> |
| 285 | Fresh Watermain | 519 days | | 519 days | 0% | Tue 15/12/20 | Wed 14/9/22 | | NA | Fri 14/5/21 | Thu 16/3/23 | 119 days | | | | | | | | | | . |
| 286 | Fresh Watermain - Method Statement Submission | 0 days | | 0 days | 0% | Tue 1/6/21 | Tue 1/6/21 | | NA NA | Sat 7/8/21 | Sat 7/8/21 | 67 days 1 days | | | | 1 / | 15 | | | / [*] | | $\ \ $ |
| 287 | Fresh Watermain - Ivietnod Statement Submission Fresh Watermain Method Statement Comment & Appraoval | | | | 0% | Tue 1/6/21 | Mon 5/7/21 | | | Sat 7/8/21 | Fri 10/9/21 | | 1286 | | | | | | | | | $\ \ $ |
| 88 | ** | 35 days | | 35 days | | | | | NA NA | | | 67 days 1 days | 1286 | | | | | | | | | $\ \ $ |
| | Fresh Watermain Procurement | 120 days | | 120 days | 0% | Mon 11/1/21 | Mon 10/5/21 | | NA | Fri 14/5/21 | Fri 10/9/21 | 123 days 1 days | 1000 1007 | | | | | | | | | $\ \ $ |
| 39 | CH1000 - CH1087 (~191m) Rd D3 | 20 days | | 20 days | 0% | Tue 6/7/21 | Wed 28/7/21 | | NA | Sat 11/9/21 | Wed 6/10/21 | 58 days 1 days | 1288,1287 | | | | | | | | | $\ \ $ |
| 90 | CH1087 - CH1189.4 (~212m) - N. Ramp | 4 days | | 4 days | 0% | Tue 21/9/21 | Sat 25/9/21 | | NA | Thu 7/10/21 | Mon 11/10/21 | | 1282,467,1289 | | | | | | | | | $\ \ $ |
| 1 | CH1189.4 - CH1394 (~409.2m) - Bridge D3 | 42 days | - | 42 days | 0% | Tue 10/8/21 | Tue 28/9/21 | | NA | Fri 15/10/21 | Thu 2/12/21 | 54 days 2 days | 1288,944FF | | | | | | | | | $\ \ $ |
| 2 | CH1394 - CH1444.7 (~101.4m) - S. Ramp | 10 days | 0 days | 10 days | 0% | Tue 6/7/21 | Fri 16/7/21 | NA | NA | Mon 15/8/22 | Thu 25/8/22 | 332 days 0 days | 988SS+10 days, | | | | | | | | | , |
| 3 | CH1444.7 - CH1560 (~165m) - Rd D3 | 30 days | 0 days | 30 days | 0% | Mon 12/7/21 | Sat 14/8/21 | NA | NA | Sat 27/11/21 | Tue 4/1/22 | 116 days 0 days | 988SS+15 days | | | | | | | | | , |
| 4 | CH1720 - CH1920 (~25m) - Underpass | 2 days | 0 days | 2 days | 0% | Fri 17/12/21 | Sat 18/12/21 | NA | NA | Fri 16/9/22 | Sat 17/9/22 | 221 days 0 days | 1270,444 | | | | | | | | | , |
| | CH2060 - CH2118.93 (~47m) - Rd D3 | 2 days | 0 days | 2 days | 0% | Sat 16/10/21 | Mon 18/10/21 | NA | NA | Wed 15/12/21 | Thu 16/12/21 | 51 days 0 days | 1273SS+10 days | | | | | | | | | , |
| | CH100 - CH147 (~280m) - L12 Road | 30 days | 0 days | 30 days | 0% | Tue 17/5/22 | Tue 21/6/22 | NA | NA | Tue 28/6/22 | Tue 2/8/22 | 35 days 2 days | 1297 | | | | | | | | | , |
| 7 | Open Space & Promenade (~1,093m) | 110 days | 0 days | 110 days | 0% | Thu 30/12/21 | Mon 16/5/22 | NA | NA | Wed 12/1/22 | Fri 27/5/22 | 10 days 1 day | 1497,458,111 | | | | | | | HIII | | , |
| | Freshwater main across Kai Tak River | 50 days | 0 days | 50 days | 0% | Tue 17/5/22 | Fri 15/7/22 | NA | NA | Tue 15/11/22 | Thu 12/1/23 | 151 days 1 day | 1297,514 | | | | | | 1111 | | | , |
|) | L12d Freshwater | 50 days | 0 days | 50 days | 0% | Tue 15/12/20 | Wed 17/2/21 | NA | NA | Tue 15/11/22 | Thu 12/1/23 | 569 days | 498 | | | | | | | | | , |
|) | Fresh Watermain T&C | 51 days | 0 days | 51 days | 0% | Sat 16/7/22 | Wed 14/9/22 | NA | NA | Fri 13/1/23 | Thu 16/3/23 | 151 days 1 day | 1297,1296,1298, | | | | | | | | | + |
|)1 | Salt Watermain | 591 days | 0 days | 591 days | 0% | Mon 1/2/21 | Fri 27/1/23 | NA | NA | Sun 20/6/21 | Thu 16/3/23 | 41 days | | | | | | | | | | 1 |
|)2 | Salt Watermain - Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 24/5/21 | Mon 24/5/21 | NA | NA | Mon 13/9/21 | Mon 13/9/21 | 112 days 1 day | | | | 4 24 | 15 | | | | | , |
|)3 | Salt Watermain Method Statement Comment & Appraoval | 35 days | 0 days | 35 days | 0% | Mon 24/5/21 | Sun 27/6/21 | NA | NA | Mon 13/9/21 | Sun 17/10/21 | 112 days 1 day | 1302 | | | | | | | | | $\ \ $ |
|)4 | Salt Watermain Procurement | 120 days | 0 days | 120 days | 0% | Mon 1/2/21 | Mon 31/5/21 | NA | NA | Sun 20/6/21 | Sun 17/10/21 | 139 days 1 day | | | | | | | | | | $\ \ $ |
|)5 | CH1000 - CH1087 (~157m) Rd D3 | 15 days | 0 days | 15 days | 0% | Mon 28/6/21 | Thu 15/7/21 | NA | NA | Thu 18/8/22 | Sat 3/9/22 | 341 days 1 days | 1304,1303 | | | | | | | | | $\ \ $ |
| 06 | CH1087 - CH1189.4 (~218m) - N. Ramp | 4 days | 0 days | 4 days | 0% | Mon 27/9/21 | Thu 30/9/21 | NA | NA | Tue 12/10/21 | Sat 16/10/21 | 12 days 1 day | 1290 | | | | | | | | | $\ \ $ |
|)7 | CH1189.4 - CH1394 (~409.2m) - Bridge D3 | 40 days | 0 days | 40 days | 0% | Sat 2/10/21 | Thu 18/11/21 | NA | NA | Mon 18/10/21 | Thu 2/12/21 | 12 days 0.5 days | 1291SS,1303,45 | | | | | | | | | $\ \ $ |
| 08 | CH1394 - CH1444.7 (~101.4m) - S. Ramp | 10 days | 0 days | 10 days | 0% | Sat 17/7/21 | Wed 28/7/21 | NA | NA | Fri 26/8/22 | Tue 6/9/22 | 332 days 1 day | 1292 | | | | | | | | | $\ \ $ |
| 09 | CH1444.7 - CH1560 (~165m) - Rd D3 | 18 days | | 18 days | 0% | Mon 16/8/21 | Sat 4/9/21 | NA | NA | Wed 29/6/22 | Wed 20/7/22 | 258 days 1 day | 1293 | | | | | | | | | $\ \ $ |
| 10 | CH1560 - CH1720 (~160m) - NDR | 50 days | | 50 days | 0% | Fri 19/11/21 | Wed 19/1/22 | | NA | Thu 21/7/22 | Sat 17/9/22 | 197 days | 1307,1309,444 | | | | | | | | | $\ \ $ |
| 1 | CH1720 - CH1920 (~25m) - Underpass | 3 days | | 3 days | 0% | Thu 20/1/22 | Sat 22/1/22 | | NA | Mon 19/9/22 | Wed 21/9/22 | 197 days 1 day | 1294,1310 | | | | | | 4111 | | | $\ \ $ |
| 2 | CH2060 - CH2118.93 (~47m) - Rd D3 | 2 days | | 2 days | 0% | Mon 24/1/22 | Tue 25/1/22 | | NA | Thu 22/9/22 | Fri 23/9/22 | 197 days 0 days | 1295,1311 | | | | | | | | | $\ \ $ |
| 3 | CH100 - CH147 (~455m) - L12 Road | 47 days | | 2 days 47 days | 0% | | Tue 16/8/22 | | NA | Wed 3/8/22 | Tue 27/9/22 | 35 days 2 days | 1295,1311 | | | | | | | | | $\ \ $ |
| 14 | L12d Salt Watermain | 50 days | | 50 days | 0% | Wed 22/0/22 Wed 17/8/22 | Mon 17/10/22 | | NA NA | Wed 3/6/22 Wed 16/11/22 | Fri 13/1/23 | 75 days 1 day | 1313,498 | | | | | | | | | $\ \ $ |
| | | | | - | | | | | | | | | , | | | | | | | | | $\ \ $ |
| 315 | Open Space & Promenade (~1,093m) | 110 days | | 110 days | 0% | Tue 17/5/22 | Sat 24/9/22 | | NA | Sat 28/5/22 | Sat 8/10/22 | 10 days 1 day | 1297,458 | | | | | | | | | $\ \ $ |
| 316 | Saltwater main across Kai Tak River | 51 days | U days | 51 days | 0% | Mon 26/9/22 | Fn 25/11/22 | NA | NA | Tue 15/11/22 | Fri 13/1/23 | 41 days 1 day | 1315,514 | | | | | | | | | Щ |
| le: Rev.11 | Prog with Progress | Summary | | | Inactive M | | | Duration-or | - | | Start-only | E . | | Milestone | ♦ | | | ical Split | | | | |
| | split Split | Project Sun | nmary | U . | Inactive S | ummary | | Manual Sur | nmary Rollup | | Finish-only | 3 | Deadline | | 4 | | Prog | gress | | | | |

| | | | | | | | COI | itiact IVO. LD | /2010/011 | TD Project | | | | | | | | | | | |
|------------|--|-------------|----------------------|-----------------------|------------------------|----------------------------|--------------|----------------|--------------|---------------|--------------|--------------------|--------------------------|---------|---------------|-------------|----------------|------|------|---------|----------------|
| Task N | Name | Duration | n Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Fini | sh Late Start | Late Finish | Total TRA Slack | Predecessors 2020 | 04 0: | 202 | .1 | 04 0. | | 022 | 04 | \1 |
| 17 | Salt Watermain T&C | 50 days | 0 days | 50 days | 0% | Sat 26/11/22 | Fri 27/1/23 | NA | NA | Sat 14/1/23 | Thu 16/3/23 | 41 days 1 day | Q2 Q3 1312,1315,1316, | Q4 Q1 | Q2 | Q3 Q | 24 Q1 | Q2 | Q3 | Q4 Q | 1 (|
| 8 | Irrigation System | 535 days | s 0 days | 535 days | 0% | Tue 5/1/21 | Sat 22/10/22 | NA | NA | Wed 16/6/21 | Thu 16/3/23 | 120 days | | ╢╺┼┼ | | | | | | a III | |
| 19 | Irrigation System - Method Statement Submission | 0 days | 0 days | 0 days | 0% | Sun 20/6/21 | Sun 20/6/21 | NA | NA | Thu 4/11/21 | Thu 4/11/21 | 137 days 1 day | | | | 20/6 | | | | | |
| 20 | Irrigation System Method Statement Comment & Appraoval | 21 days | 0 days | 21 days | 0% | Sun 20/6/21 | Sat 10/7/21 | NA | NA | Thu 4/11/21 | Wed 24/11/21 | 137 days 1 day | 1319 | | | , | | | | | |
| 1 | Irrigation Pipe and System Procurement | 150 days | s 0 days | 150 days | 0% | Tue 5/1/21 | Thu 3/6/21 | NA | NA | Wed 16/6/21 | Fri 12/11/21 | 162 days 1 day | | ╢ # | | | | | | | |
| 22 | CH1000 - CH1087 (~87m) Rd D3 | 5 days | 0 days | 5 days | 0% | Fri 16/7/21 | Wed 21/7/21 | NA | NA | Mon 5/9/22 | Fri 9/9/22 | 341 days 0 days | 1305,1321 | | | | | | | | |
| 23 | CH1087 - CH1189.4 (~205m) - N. Ramp | | 0 days | 10 days | 0% | Mon 7/6/21 | Fri 18/6/21 | NA | NA | Sat 13/11/21 | Wed 24/11/21 | 132 days 1 day | 1321 | | | | | | | | |
| 14 | CH1189.4 - CH1394 (~409.2m) - Bridge D3 | | 0 days | 7 days | 0% | Sat 2/10/21 | Sat 9/10/21 | NA | NA | Thu 25/11/21 | Thu 2/12/21 | 45 days 0 days | 1307SS,1320,13 | | | | | | | | |
| 5 | CH1394 - CH1444.7 (~101.4m) - S. Ramp | 3 days | 0 days | 3 days | 0% | Thu 29/7/21 | Sat 31/7/21 | NA | NA | Wed 7/9/22 | Fri 9/9/22 | 332 days 0 days | 1308 | | | | | | | | |
| 5 | CH1444.7 - CH1560 (~175m) - Rd D3 | 4 days | 0 days | 4 days | 0% | Mon 6/9/21 | | | NA | Mon 12/9/22 | Thu 15/9/22 | 302 days 0 days | 1309,1322,1325 | | | | | | | | |
| 7 | CH1920 - CH2000 (~160m) S.D. Rd | | 0 days | | 0% | Thu 6/1/22 | Tue 11/1/22 | | NA | Fri 16/9/22 | Wed 21/9/22 | 207 days 1 day | 1271,1326 | | | | | | | | |
| | <u> </u> | | | 5 days | | | | | | | | | | | | | | | | | |
| 28 | CH2000 - CH2060 (~60m) - S.D. Rd | | 0 days | 2 days | 0% | Sat 22/1/22 | Mon 24/1/22 | | NA | Thu 22/9/22 | Fri 23/9/22 | 198 days 0 days | 1272,1327 | | | | | | | | |
| 29 | CH2060 - CH2118.93 (~100m) - Rd D3 | 3 days | 0 days | 3 days | 0% | Wed 26/1/22 | Fri 28/1/22 | | NA | Sat 24/9/22 | Tue 27/9/22 | 197 days 0 days | 1312,1328 | | | | | | | | |
| 30 | CH100 - CH147 (~173m) - L12 Road | 5 days | 0 days | 5 days | 0% | Wed 17/8/22 | Mon 22/8/22 | | NA | Wed 28/9/22 | Wed 5/10/22 | 35 days 1 day | 1313,1329 | | | | | | | | |
| 31 | Irrigation System T&C | | 0 days | 50 days | 0% | Tue 23/8/22 | Sat 22/10/22 | | NA | Sat 14/1/23 | Thu 16/3/23 | 120 days 1 day | 1330 | | | | | | | | \parallel |
| | Salt Water and Sewage Pumping Station | | s 0 days | 637 days | 0% | Sat 27/3/21 | Thu 18/5/23 | | NA | Wed 28/7/21 | Tue 30/5/23 | 8 days | | | | | | | | | |
| 3 | Salt Water Pumping Station - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 2/8/21 | Mon 2/8/21 | NA | NA | Fri 10/9/21 | Fri 10/9/21 | 39 days 1 day | | | | 2/8 | | | | | |
| 34 | Salt Water Pumping Station - Temp. Works Design and Method Statement Comme & Appraoval | nt 35 days | 0 days | 35 days | 0% | Mon 2/8/21 | Sun 5/9/21 | NA | NA | Fri 10/9/21 | Thu 14/10/21 | 39 days 1 day | 1333 | | | | | | | | |
| 5 | Utilities Diversion | 65 days | 0 days | 65 days | 0% | Mon 21/6/21 | Sat 4/9/21 | NA | NA | Wed 28/7/21 | Wed 13/10/21 | 31 days 15 day | | | | | | | | | |
| 6 | Substructure | 100 days | s 0 days | 100 days | 0% | Tue 5/10/21 | Sat 5/2/22 | NA | NA | Fri 15/10/21 | Tue 15/2/22 | 8 days | | | | | | | | | |
| 7 | Sheetpile Installation | 25 days | 0 days | 25 days | 0% | Tue 5/10/21 | Wed 3/11/21 | NA | NA | Fri 15/10/21 | Fri 12/11/21 | 8 days 5 days | 148,1334,1335,1 | | | | h III | | | | |
| 8 | Excavation and Shoring Installation | 50 days | 0 days | 50 days | 0% | Thu 4/11/21 | Tue 4/1/22 | NA | NA | Sat 13/11/21 | Thu 13/1/22 | 8 days 5 days | 1337 | | | | | | | | |
| 9 | Base Slab Construction include blinding layer | 25 days | 0 days | 25 days | 0% | Wed 5/1/22 | Sat 5/2/22 | NA | NA | Fri 14/1/22 | Tue 15/2/22 | 8 days 3 days | 1338,149FS+120 | | | | | | | | |
|) | Superstructure | 460 days | s 0 days | 460 days | 0% | Fri 24/9/21 | Wed 12/4/23 | NA | NA | Wed 16/2/22 | Mon 29/5/23 | 38 days | | | | | | - | | | - |
| | Coordination with CLP to plan for Layout and Details of Transformer Room | 0 days | 0 days | 0 days | 0% | Fri 24/9/21 | Fri 24/9/21 | NA | NA | Sat 4/6/22 | Sat 4/6/22 | 253 days | | | | ⇔ 2- | 4/) | + | | | |
| 2 | Scaflold, Falsework and Formwork Erection | 28 days | 0 days | 28 days | 0% | Mon 7/2/22 | Thu 10/3/22 | NA | NA | Wed 16/2/22 | Sat 19/3/22 | 8 days 2 days | 1339,719,531,54 | | | | | 4 | | | |
| 3 | Wall Rebar Fixing & Concreting | 24 days | 0 days | 24 days | 0% | Fri 11/3/22 | Fri 8/4/22 | NA | NA | Mon 21/3/22 | Thu 21/4/22 | 8 days 1 day | 1342 | | | | | | | | |
| 4 | Top Slab and Beam: Rebar Fixing and Formwork | 36 days | 0 days | 36 days | 0% | Sat 9/4/22 | Tue 24/5/22 | NA | NA | Fri 22/4/22 | Thu 2/6/22 | 8 days 2 days | 1343 | | | | | | | | |
| 5 | Formwork & Falsework Removal | 28 days | 0 days | 28 days | 0% | Wed 25/5/22 | Mon 27/6/22 | NA | NA | Sat 4/6/22 | Thu 7/7/22 | 8 days 1 day | 1344,1341 | | | | | | | | |
| 16 | Watertightnes Test | 15 days | | 15 days | 0% | Tue 28/6/22 | Fri 15/7/22 | NA | NA | Fri 19/8/22 | Mon 5/9/22 | 44 days 1 day | 1345 | | | | | | | | |
| 47 | Backfilling & Sheetpile Removal | 24 days | | 24 days | 0% | Tue 28/6/22 | Tue 26/7/22 | | NA | Tue 9/8/22 | Mon 5/9/22 | 35 days 2 days | 1345 | | | | | | | | |
| 48 | Water Chamber Construction | | 0 days | 36 days | 0% | Tue 28/6/22 | Tue 9/8/22 | | NA | Fri 8/7/22 | Thu 18/8/22 | 8 days 1 day | 1345 | | | | | | | | |
| 49 | Watertightnes Test for Water Chamber | | 0 days | 15 days | 0% | | Fri 26/8/22 | | NA | Fri 19/8/22 | Mon 5/9/22 | 8 days 1 day | 1348 | | | | | | | | |
| 50 | Drainage and Roadworks | | 0 days | 80 days | 0% | Wed 10/8/22 Wed 27/7/22 | Mon 31/10/2 | | NA | Sat 18/2/23 | Mon 29/5/23 | 170 days 5 days | 1347,383 | | | | | | | | |
| | | | | | | | | | | | | | 1347,383 | | | | | | | | |
| 52 | Utilities Laying | | o days | 105 days | 0% | Wed 27/7/22 | Tue 29/11/22 | | NA | Tue 6/9/22 | Tue 10/1/23 | 35 days 5 days | 714,1345,555,13 | | | | | | | | |
| | Finishing work and fitting out | 75 days | | 75 days | | Sat 27/8/22 | Fri 25/11/22 | | NA | Tue 6/9/22 | Mon 5/12/22 | 8 days 1 day | | | | | | | | | |
| 53 | Tx Installation with T&C | | 0 days | 60 days | 0% | Tue 15/11/22 | | | NA | Thu 24/11/22 | Mon 6/2/23 | 8 days 1 day | 1346,1352FF+50 | | | | | | | | \blacksquare |
| 54 | PCCW Installation | 15 days | | 15 days | 0% | Wed 30/11/22 | | | NA | Fri 24/2/23 | | 70 days 1 day | 1351,1346 | | | | | | | | |
| 55 | Ironmongery work | | 0 days | 24 days | 0% | Sat 26/11/22 | | | NA | Tue 14/2/23 | Mon 13/3/23 | 64 days 0.5 days | | | | | | | | | 1 |
| 56 | E&M installation | | s 0 days | 100 days | 0% | Thu 3/11/22 | Fri 3/3/23 | | NA | Sat 12/11/22 | Mon 13/3/23 | 8 days 5 days | 1345,1353FF+30 | | | | | | | | 1 |
| 7 | Testing and Commissioning | 30 days | 0 days | 30 days | 0% | Sat 4/3/23 | Wed 12/4/23 | NA | NA | Tue 14/3/23 | Fri 21/4/23 | 8 days 2 days | 1356,1355,1351, | | | | | | | | |
| 8 | WSD Form 46 Part I & II Submission | 0 days | 0 days | 0 days | 0% | Sat 27/3/21 | Sat 27/3/21 | NA | NA | Sat 22/4/23 | Sat 22/4/23 | 615 days 0.5 days | | · | ♦ 27/3 | | | | | | |
| 59 | WSD Form 46 Part 46 Part IV Submission | 0 days | 0 days | 0 days | 0% | Tue 15/3/22 | Tue 15/3/22 | NA | NA | Sat 22/4/23 | Sat 22/4/23 | 329 days 0.5 days | 1358 | | | | | 15/3 | | ++++ | #1 |
| 50 | CLP Meter Installation | 0 days | 0 days | 0 days | 0% | Sun 19/6/22 | Sun 19/6/22 | NA | NA | Sat 22/4/23 | Sat 22/4/23 | 251 days 0.5 days | | | | | | | 19/6 | | + |
| 51 | FSD Form 501 Submission for FS Inspection | 0 days | 0 days | 0 days | 0% | Wed 12/4/23 | Wed 12/4/23 | NA | NA | Sat 22/4/23 | Sat 22/4/23 | 8 days 0.5 days | 1359,1360,1357 | | | | | | | | • |
| o. Dov. 11 | Prograith Progress Task | Summary | | | Inactive M | lilestone 🔷 | | Duration-c | nly | | Start-only | Е | External Milestone | ** | | Criti | ical Split | | | | |
| e: KeV.II | Prog with Progress | Project Sur | nmary | | Inactive Su | | | | mmary Rollup | | Finish-only | 3 | Deadline | 4 | | Progr | | | | | _ |

| | | | 1 | | | | | tract No. ED/ | | <u>=</u> | | | | | | | | | | | | | |
|--------|---|------------------------|--------------------|-----------------------|------------------------|--------------------------|---------------------------|-------------------------|------------------------|------------------------|------------------------|----------------|----------|------------------|---------------------|-----------|--------------|--------------|----------------------|------------|----------------|------|------------------------|
| Task | Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | 1 Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 Q2 Q3 (| Q4 Q1 | 2021 Q2 | | Q4 (| | 2022 2 Q3 | Q4 | Q1 |
| 2 | FSD Inspection | 0 days | 0 days | 0 days | 0% | Sat 29/4/23 | Sat 29/4/23 | NA | NA | Thu 11/5/23 | Thu 11/5/23 | 8 days | 0.5 days | 1361FS+15 days | | | | | | | | | |
| 3 | Issuance of FS Certificate | 0 days | 0 days | 0 days | 0% | Thu 18/5/23 | Thu 18/5/23 | NA | NA | Tue 30/5/23 | Tue 30/5/23 | 8 days | 0.5 days | 1362FS+15 days | | | | | | | | | |
| 4 | Salt Water and Sewage Pumping Station: Landscaping hardworks and softworks | 110 days | o days | 110 days | 0% | Wed 30/11/22 | Sat 15/4/23 | NA | NA | Wed 11/1/23 | Mon 29/5/23 | 35 days | 2 days | 562,1351,548 | | | | | | | | | |
| 5 | Salt Water and Sewage Pumping Station: Planting Works | 110 days | s 0 days | 110 days | 0% | Wed 30/11/22 | Sat 15/4/23 | NA | NA | Wed 11/1/23 | Mon 29/5/23 | 35 days | 2 days | 562,1351,548 | | | | | | | | | |
| 6 | Section 6 Completion | 0 days | 0 days | 0 days | 0% | Tue 30/5/23 | Tue 30/5/23 | NA | NA | Tue 30/5/23 | Tue 30/5/23 | 0 days | | 1350,1363,1364, | | | | | | | | | |
| 7 | Seawater Intake Box Culvert (~169m) | 647 days | s 0 days | 647 days | 0% | Fri 5/3/21 | Mon 8/5/23 | NA | NA | Fri 5/3/21 | Tue 30/5/23 | 0 days | | | | | | | | | | _ | ++ |
| 8 | Access Date - Part 4 | 0 days | 0 days | 0 days | 0% | Fri 5/3/21 | Fri 5/3/21 | NA | NA | Fri 5/3/21 | Fri 5/3/21 | 0 days | 0 days | 4FS+645 days | | * | 5/3 | | | | | | |
| 9 | Part 4 - CHA.0-79 (79m) | 290 days | s 0 days | 290 days | 0% | Thu 19/5/22 | Mon 8/5/23 | NA | NA | Fri 10/6/22 | Tue 30/5/23 | 18 days | | | | | | | | | _ | | |
| 0 | CHA 0-24 Precast Section | 34 days | 0 days | 34 days | 0% | Thu 19/5/22 | Tue 28/6/22 | NA | NA | Fri 10/6/22 | Wed 20/7/22 | 18 days | | | | | | | | | / | | |
| | Temporary ELS & Excavation and Shoring Installation | 24 days | 0 days | 24 days | 0% | Thu 19/5/22 | Thu 16/6/22 | NA | NA | Fri 10/6/22 | Fri 8/7/22 | 18 days | 1 days | 1384,1386,1238, | | | | | | ll i | | | |
| 2 | Install 3 nos. 8 m long precast units (2.5 days per unit) | 10 days | 0 days | 10 days | 0% | Fri 17/6/22 | Tue 28/6/22 | NA | NA | Sat 9/7/22 | Wed 20/7/22 | 18 days | 2.5 days | 1371 | | | | | | | | | |
| 3 | CHA 24-79 (75m) (5 units) | 256 days | s 0 days | 256 days | 0% | Wed 29/6/22 | Mon 8/5/23 | NA | NA | Thu 21/7/22 | Tue 30/5/23 | 18 days | | | | | | | | | | | # |
| 4 | Temporary ELS & Excavation | 50 days | 0 days | 50 days | 0% | Wed 29/6/22 | Fri 26/8/22 | NA | NA | Thu 21/7/22 | Sat 17/9/22 | 18 days | 1 day | 1372 | | | | | | | | | |
| 5 | Unit 1 & 3 (41 days per unit) | 44 days | 0 days | 44 days | 0% | Sat 27/8/22 | Thu 20/10/22 | NA | NA | Mon 19/9/22 | Thu 10/11/22 | 18 days | 3 days | 1374 | | | | | | | | | |
| 6 | Unit 2 & 4 (41 days per unit) | 44 days | | 44 days | 0% | Fri 21/10/22 | Sat 10/12/22 | | NA | Fri 11/11/22 | Mon 2/1/23 | 18 days | | 1375 | | | | | | | | | $\mathbb{L} \parallel$ |
| 7 | Unit 5 & 6 (41 days per unit) | 44 days | | 44 days | 0% | Mon 12/12/22 | | NA | NA | Tue 3/1/23 | Sat 25/2/23 | 18 days | | 1376 | | | | | | | | | |
| | Remove struts and backfilling | 24 days | | 24 days | 0% | Mon 6/2/23 | Sat 4/3/23 | NA | NA | Mon 27/2/23 | Sat 25/3/23 | 18 days | | 1376,1377 | | | | | | | | | |
|) | Reinstate seawall | 50 days | | 50 days | 0% | Mon 6/3/23 | Mon 8/5/23 | | NA | Mon 27/3/23 | Tue 30/5/23 | 18 days | | 1378 | | | | | | | | | 1 |
| | Part 10 - CHA79-89 (10m) | 286 days | | 286 days | 0% | Wed 2/6/21 | Wed 18/5/22 | | NA | Wed 2/6/21 | Thu 9/6/22 | 0 days | 1 uuyo | 1370 | | | | | | | | | |
|) I | Access Date - Part 10 | | | 0 days | 0% | Wed 2/6/21 | Wed 16/3/22 Wed 2/6/21 | | NA NA | Wed 2/6/21 | Wed 2/6/21 | | 0 days | 4FS+734 days,1' | | | W | 16 | | | | | |
| - | | 0 days | | | | Wed 2/6/21 Sun 2/1/22 | | | NA NA | Wed 2/6/21 Tue 22/2/22 | Tue 22/2/22 | | o uays | +1'0+104 uays,1 | | | | ١ | | | | ווון | |
| _ | Tempoary Works Design and Method Statement Submission | | 0 days | 0 days | 0% | | Sun 2/1/22 | | | | | 40 days | | 1202 | | | | | | 4/11 | | | |
| | Tempoary Works Design and Method Statement Comment by PM | 21 days | | 21 days | 0% | Mon 3/1/22 | Wed 26/1/22 | | NA | Tue 22/2/22 | Thu 17/3/22 | 40 days | | 1382 | | | | | | | | | |
| | Temporary ELS & Excavation | 14 days | | 14 days | 0% | Fri 25/2/22 | Sat 12/3/22 | | NA | Fri 18/3/22 | Sat 2/4/22 | 18 days | _ | 1388,1381,1391, | | | | | | | | | |
| | Box Culvert with Feeder Installation | 47 days | | 47 days | 0% | Mon 14/3/22 | Wed 11/5/22 | | NA | Mon 4/4/22 | Wed 1/6/22 | 18 days | | 1384,1381,1391 | | | | | | | | | |
| | Remove struts and backfilling | 6 days | - | 6 days | 0% | Thu 12/5/22 | Wed 18/5/22 | | NA | Thu 2/6/22 | Thu 9/6/22 | | 1 days | 1392,1385 | | | | | | | 4111 | | |
| | Part 1 - CH89-165 (76m) 6 Units | 193 days | - | 193 days | 0% | Mon 16/8/21 | | NA | NA | Mon 6/9/21 | Wed 1/6/22 | 18 days | | | | | | | | | | | |
| | Temporary ELS & Excavation | 25 days | 0 days | 25 days | 0% | Mon 16/8/21 | Mon 13/9/21 | NA | NA | Mon 6/9/21 | Wed 6/10/21 | 18 days | | 9,1147,1445 | | | | | | | | | |
| | Unit 1 & 3 (41 days per unit) | 44 days | 0 days | 44 days | 0% | Tue 14/9/21 | Sat 6/11/21 | NA | NA | Thu 7/10/21 | Sat 27/11/21 | 18 days | 4 days | 1388,418,570 | | | | | | | | | |
| | Unit 2 & 4 (41 days per unit) | 44 days | 0 days | 44 days | 0% | Mon 8/11/21 | Thu 30/12/21 | NA | NA | Mon 29/11/21 | Fri 21/1/22 | 18 days | 4 days | 1389 | | | | | | † | | | |
| | Unit 5 & 6 (41 days per unit) | 44 days | 0 days | 44 days | 0% | Fri 31/12/21 | Thu 24/2/22 | NA | NA | Sat 22/1/22 | Thu 17/3/22 | 18 days | 4 days | 1390 | | | | | | | | | |
| 2 | Remove struts and backfilling | 36 days | 0 days | 36 days | 0% | Fri 25/2/22 | Fri 8/4/22 | NA | NA | Thu 21/4/22 | Wed 1/6/22 | 43 days | 1 days | 1390,1391 | | | | | | | | | |
| | Elevated Landscape Deck CH1920 - 2090 | 1178 day | ys 11.27 days | 1166.74 days? | 0% | Thu 16/5/19 | Sat 29/4/23 | Thu 16/5/19 | NA | Thu 16/5/19 | Wed 29/5/24 | 321 da | | - | + + + | | | | | | | ++++ | + |
| 4 | Agree Interface Coordination Plan with KL/2014/01 Contractor | 14 days | 14 days | 0 days | 100% | Thu 16/5/19 | Fri 31/5/19 | Thu 16/5/19 | Fri 31/5/19 | Thu 16/5/19 | Fri 31/5/19 | 0 days | 0 days | | | | | | | | | | |
| 5 | Ch1920-CH2060 | 1 day? | 0 days | 1 day? | 0% | Sat 23/5/20 | Sat 23/5/20 | NA | NA | Wed 29/5/24 | Wed 29/5/24 | 1467 d | | | | | | | | | | | |
| 6 | Part 1 - CH1919-2020 (70m) 4 bays | 181 days | o days | 181 days | 0% | Mon 5/7/21 | Thu 10/2/22 | NA | NA | Wed 8/9/21 | Mon 14/2/22 | 3 days | | | | | | | | | | | |
| | Pier Temporary Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 5/7/21 | Mon 5/7/21 | NA | NA | Wed 8/9/21 | Wed 8/9/21 | 65 days | 1 day | | | | | 5/7 | | | | | |
| | Pier Temporary Works Design and Method Statement Comment & Approval | 45 days | 0 days | 45 days | 0% | Mon 5/7/21 | Wed 18/8/21 | NA | NA | Wed 8/9/21 | Fri 22/10/21 | 65 days | 1 day | 1397 | | | | | | | | | |
|) | CH1930 Pier (1set x 3nos.): | 12 days | 0 days | 12 days | 0% | Tue 5/10/21 | Tue 19/10/21 | NA | NA | Fri 8/10/21 | Fri 22/10/21 | 3 days | | 1075,1076,1066 | | | | | | | | | |
| | CH1950-CH2020: Pier (3sets x 3nos) - 1 day/no 1 team | 11 days | 0 days | 11 days | 0% | Wed 20/10/21 | Mon 1/11/21 | NA | NA | Sat 23/10/21 | Thu 4/11/21 | 3 days | 2 day | 579,1398,1399 | | | | | | | | | |
| | Falsework Temporary Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Wed 1/9/21 | Wed 1/9/21 | NA | NA | Tue 21/9/21 | Tue 21/9/21 | 20 days | 1 day | | | | | 4 1/9 | 9 | | | | |
| | Falsework Temporary Works Design and Method Statement Comment & | 45 days | 0 days | 45 days | 0% | Wed 1/9/21 | Fri 15/10/21 | NA | NA | Tue 21/9/21 | Thu 4/11/21 | 20 days | 1 day | 1401 | | | | | | | | | |
| + | Approval Falsework erection | 10 days | | 10 days | 0% | Tue 2/11/21 | Fri 12/11/21 | | NA | Fri 5/11/21 | Tue 16/11/21 | 1 | 1 day | 1400,1402 | | | | | | | | | |
| 4 | Deck & Secondary Upstand Beam Temporary Works Design and Method | 0 days | | 0 days | 0% | Wed 1/9/21 | Wed 1/9/21 | | NA | Sun 3/10/21 | Sun 3/10/21 | 32 days | | - | | | | 6 1/0 | | | | | |
| 5 | Statement Submission Deck & Secondary Upstand Beam Temporary Works Design and Method | 45 days | | 45 days | 0% | Wed 1/9/21 | Fri 15/10/21 | | NA | Sun 3/10/21 | Tue 16/11/21 | | | 1404 | | | | | | | | | |
| 6 | Statement Comment & Approval Deck (4 bays) 12d/bay & link bridge (12d/bay) | 25 days | | 25 days | 0% | Sat 13/11/21 | Sat 11/12/21 | | NA | Wed 17/11/21 | Wed 15/12/21 | | - | 1403,625,623FS | | | | | | | | | |
| | | 25 days | ounys | 25 days | | | Sut 11/12/21 | 171 | 1721 | | 13/12/21 | Junys | 1 uuy | | | | | | | | | | Ш |
| | 1 Prog with Progress Task Split | Summary Project Sun | nmarv | | Inactive Mi | | | Duration-or Manual Sur | nly mmary Rollup | | Start-only Finish-only | | C 3 | Extern Deadli | al Milestone | \$ | | | tical Split gress | t | | | |
| 22-N | 1ay-20 Split Milestone ◆ | Inactive Ta | | | Manual Ta | | | Manual Sur | | | External Tas | ks | 7 | Critica | | _ | | | gress nual Prog | rress | | | |



| | | | | | | | Con | | | | | | | | | | | | | |
|----------------|---|-------------|--------------------|-----------------------|------------------------|----------------------|--------------|--------------|---------------|--------------|--------------|--------------------|-----------------|-----------------|-----------|--|------------------------|-------------------|--|---------|
| Task Nan | e | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total TRA Slack | Predecessors | 2020 O2 O3 | 04 01 | 2021 Q2 Q3 | 04 01 | 2022 Q2 Q3 | 03 04 | Q1 Q2 |
| 451 | Lift Pilecap and ELS - Temp. Works Foundation Design and Method Statement Comment & Appraoval | 30 days | | 30 days | 0% | Mon 21/12/20 | Tue 19/1/21 | NA | NA | Tue 16/11/21 | Wed 15/12/21 | 330 days 0.5 day | 1450 | - 43 | | | | | | |
| 452 | Intall Sheetpile, ELS, Excavation and Temp. Works Installation (Shoring, Drainage & Slope Protection) | 38 days | 0 days | 38 days | 0% | Tue 2/2/21 | Sat 20/3/21 | NA | NA | Thu 16/12/21 | Fri 4/2/22 | 259 days 2 days | 1447,1451 | | *** | $-\parallel \parallel \parallel \parallel$ | | | | |
| 453 | Footing Construction | 75 days | 0 days | 75 days | 0% | Thu 13/5/21 | Wed 11/8/21 | NA | NA | Sat 5/2/22 | Sat 7/5/22 | 218 days 2 days | 1452,1449,587 | | | | | | | |
| 454 | Sheepile Extraction & Backilling | 25 days | 0 days | 25 days | 0% | Thu 12/8/21 | Thu 9/9/21 | NA | NA | Mon 9/5/22 | Tue 7/6/22 | 218 days 1 day | 1453 | | | | | | | |
| 455 | Lift Structure - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Tue 1/6/21 | Tue 1/6/21 | NA | NA | Tue 3/5/22 | Tue 3/5/22 | 336 days 0.5 day | | | | 1/6 | | | | |
| 456 | Lift Structure - Temp. Works Design and Method Statement Comment & Appraova | | - | 36 days | 0% | Tue 1/6/21 | Tue 6/7/21 | NA | NA | Tue 3/5/22 | Tue 7/6/22 | 336 days 0.5 day | 1455 | | | 1,0 | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 457 | Lift Tower: Falsework & Formwork Erection, Rebar Fixing & Concreting | 63 days | - | 63 days | 0% | Fri 10/9/21 | Thu 11/11/21 | | NA | Wed 8/6/22 | Tue 9/8/22 | 271 days 3 days | 1454,1157,1456 | | | | | | | |
| 458 | Lift installation (LT1 & LT2) | 90 days | 0 days | 90 days | 0% | Fri 24/12/21 | Tue 19/4/22 | NA | NA | Fri 11/11/22 | Tue 28/2/23 | 261 days 1 day | 1457FS+36 days | | | | | | | |
| 159 | E & M installation | 33 days | 0 days | 33 days | 0% | Wed 20/4/22 | Fri 27/5/22 | NA | NA | Wed 1/3/23 | Wed 12/4/23 | 261 days 3 days | 1458 | | | | | | | |
| 160 | Louvers and Glazing Installation | 27 days | 0 days | 27 days | 0% | Sat 11/12/21 | Fri 14/1/22 | NA | NA | Thu 8/9/22 | Wed 12/10/22 | 220 days 3 days | 1457FS+25 days | | | | | | | |
| 161 | Parapet Installation and Finishing Works | 40 days | 0 days | 40 days | 0% | Sat 15/1/22 | Sat 5/3/22 | NA | NA | Thu 13/10/22 | Mon 28/11/22 | 220 days 3 days | 1460 | | | | | k | | |
| 62 | Testing & commissioning | 15 days | 0 days | 15 days | 0% | Sat 28/5/22 | Wed 15/6/22 | NA | NA | Thu 13/4/23 | Sat 29/4/23 | 261 days 0.5 days | 1459 | | | | | | | |
| 463 | CLP Meter Installation | 0 days | 0 days | 0 days | 0% | Mon 18/4/22 | Mon 18/4/22 | | NA | Mon 18/4/22 | Mon 18/4/22 | 0 days 0.5 day | | | | | | ♦ 18/4 | | |
| 464 | | | - | | 0% | Wed 15/6/22 | Wed 15/6/22 | | | | | | 1450 1460 | | | | | | | |
| | EMSD Submission Form 5 for Lift Inspection | 0 days | 0 days | 0 days | | | | | NA | Tue 2/5/23 | Tue 2/5/23 | 320 days 0.5 day | | | | | | | | |
| 465 | EMSD Lift Inspection | 0 days | 0 days | 0 days | 0% | Wed 29/6/22 | Wed 29/6/22 | | NA | Tue 16/5/23 | Tue 16/5/23 | 320 days 0.5 day | | | | | | 29 | //6 | |
| 466 | Issuance of Lift Use Permit | 0 days | 0 days | 0 days | 0% | Thu 14/7/22 | Thu 14/7/22 | NA | NA | Tue 30/5/23 | Tue 30/5/23 | 320 days 0.5 day | 1465FS+15 days | | | | | | .4/7 | + |
| 167 | Staircase ST1 | 100 days | s 0 days | 100 days | 0% | Fri 12/11/21 | Tue 15/3/22 | NA | NA | Fri 25/11/22 | Sat 25/3/23 | 309 days 5 days | 587,367,1457 | | | | | | | + |
| 468 | Finishing and E&M Works | 50 days | 0 days | 50 days | 0% | Wed 16/3/22 | Tue 17/5/22 | NA | NA | Mon 27/3/23 | Tue 30/5/23 | 309 days 0.5 day | 1467,367 | | | | | | +++++ | + |
| 169 | L12d Underground Drainage and Utilities Laying | 75 days | 0 days | 75 days | 0% | Mon 7/3/22 | Tue 7/6/22 | NA | NA | Tue 29/11/22 | Tue 28/2/23 | 220 days 1 day | 1457,1460,1461 | | | | / | | | |
| 170 | L12d Roadworks and Pedestrian, with Light Pole | 36 days | 0 days | 36 days | 0% | Wed 8/6/22 | Wed 20/7/22 | NA | NA | Wed 1/3/23 | Sat 15/4/23 | 220 days 1 day | 1469,349 | | | | | | | |
| 71 | L12d Roadworks and Pedestrian | 36 days | - | 36 days | 0% | Thu 21/7/22 | Wed 31/8/22 | | NA | Mon 17/4/23 | Tue 30/5/23 | 220 days 1 day | 1470 | | | | | | $1 \mid \mid \mid \mid \mid \mid$ | |
| | | | | | | | | | | | | | 1470 | | | | | | | |
| | en Space & Promenade | 564 days | | 564 days | 0% | Mon 28/6/21 | Thu 18/5/23 | | NA | Sun 1/8/21 | Tue 30/5/23 | 9 days | | | | | | | | |
| 73 | Open Space & Promenade (From Northern End - CH1720) | 564 days | s 0 days | 564 days | 0% | Mon 28/6/21 | Thu 18/5/23 | NA | NA | Sun 15/8/21 | Tue 30/5/23 | 9 days | | | | | | | | |
| 74 | Observation Deck | 358 days | s 0 days | 358 days | 0% | Tue 1/3/22 | Fri 12/5/23 | NA | NA | Fri 6/5/22 | Tue 30/5/23 | 14 days | | | | | / | | | |
| 75 | Foundation - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Tue 1/3/22 | Tue 1/3/22 | NA | NA | Fri 6/5/22 | Fri 6/5/22 | 66 days 0.5 day | | | | | | 1/3 | | |
| 76 | Foundation - Temp. Works Design and Method Statement Comment & | 45 days | 0 days | 45 days | 0% | Tue 1/3/22 | Thu 14/4/22 | NA | NA | Fri 6/5/22 | Sun 19/6/22 | 66 days 0.5 day | 1475,639,646 | | | | | ┶ ┤ ' | | |
| 77 | Appraoval G.I. works for LT5 | 12 days | 0 days | 12 days | 0% | Sat 4/6/22 | Fri 17/6/22 | NA | NA | Mon 20/6/22 | Mon 4/7/22 | 13 days 2 days | 1447,611,604,15 | | | | | # | | |
| 78 | Design Vertification | 25 days | | 25 days | 0% | Sat 18/6/22 | Mon 18/7/22 | NA | NA | Tue 5/7/22 | Tue 2/8/22 | 13 days 1 day | 1477 | | | | | | | |
| 179 | Predrilling works for Socket H- pile | 12 days | - | | 0% | Tue 19/7/22 | Sat 30/7/22 | | NA | Wed 3/8/22 | Sun 14/8/22 | 15 days | 1478 | | | | | | | |
| | | | | 12 days | | | | | | | | | | | | | | | | |
| 80 | Socket H-pile Installation | 37 days | | 37 days | 0% | Mon 1/8/22 | Tue 13/9/22 | NA | NA | Mon 15/8/22 | Tue 27/9/22 | 12 days 2 days | 367,1155,726,14 | | | | | | | |
| 181 | Pile Testing | 43 days | 0 days | 43 days | 0% | Wed 14/9/22 | Fri 4/11/22 | NA | NA | Wed 28/9/22 | Fri 18/11/22 | 12 days 1 day | 1480 | | | | | | | |
| 482 | Structure & Lift Core - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 20/6/22 | Mon 20/6/22 | NA | NA | Wed 5/10/22 | Wed 5/10/22 | 107 days 0.5 day | | | | | | 20/ | 6 | |
| 483 | Structure & Lift Core - Temp. Works Design and Method Statement | 45 days | 0 days | 45 days | 0% | Mon 20/6/22 | Wed 3/8/22 | NA | NA | Wed 5/10/22 | Fri 18/11/22 | 107 days 0.5 day | 1482 | | | | | | HHH | |
| 184 | Comment & Appraoval Trech Excavation for Pipe Laying Works | 30 days | 0 days | 30 days | 0% | Sat 4/6/22 | Sat 9/7/22 | NA | NA | Wed 15/6/22 | Wed 20/7/22 | 9 days 2 days | 15 | | | | | | | |
| 185 | Pipe laying works, Cable Laying and Drawpits | 36 days | 0 days | 36 days | 0% | Mon 11/7/22 | Sat 20/8/22 | NA | NA | Thu 21/7/22 | Wed 31/8/22 | 9 days 5 days | 15,1484 | | | | | | | |
| 486 | Observation Deck: Substructure with Excavation/ELS works | 36 days | | 36 days | 0% | Sat 5/11/22 | Fri 16/12/22 | | NA | Sat 19/11/22 | Sat 31/12/22 | 12 days 1 day | 163,506,1483,14 | | | | | | | |
| 187 | | | | | | | | | | | | | | | | | | | | |
| | Observation Deck: Superstructure with Lift Core and Staircase work | 72 days | | 72 days | 0% | Sat 17/12/22 | Sun 26/2/23 | | NA | Mon 2/1/23 | Tue 14/3/23 | 16 days 1 day | 1486 | | | | | | | |
| 188 | LT5: Lift installation with T&C and Statutory Inspection | 60 days | | 60 days | 0% | Mon 27/2/23 | Fri 12/5/23 | | NA | Wed 15/3/23 | Tue 30/5/23 | 14 days 1 day | 713,1487 | | | | | | $\ \ \ \ \ $ | |
| 489 | E&M and ABWF works, Landscaping and paving works | 110 days | s 0 days | 110 days | 0% | Sat 17/12/22 | Thu 4/5/23 | NA | NA | Thu 12/1/23 | Tue 30/5/23 | 21 days 3 days | 1528,717,1486 | | | | | | | |
| 490 | Toilet | 416 days | s 0 days | 416 days | 0% | Mon 28/6/21 | Wed 16/11/2 | 2 NA | NA | Sun 15/8/21 | Fri 24/2/23 | 41 days | | | | | | | | |
| 191 | Foundation - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Mon 28/6/21 | Mon 28/6/21 | NA | NA | Sun 15/8/21 | Sun 15/8/21 | 48 days 0.5 days | | | | ◆ -28/6 | | | | |
| 192 | Foundation - Temp. Works Design and Method Statement Comment & | 45 days | 0 days | 45 days | 0% | Sat 24/7/21 | Mon 6/9/21 | NA | NA | Sun 15/8/21 | Tue 28/9/21 | 22 days 0.5 days | 1491,639,646 | | | | | | | |
| 193 | Appraoval Footing | 16 days | | 16 days | 0% | Thu 16/9/21 | Wed 6/10/21 | | NA | Wed 29/9/21 | Tue 19/10/21 | 10 days 0.5 days | | | | 111 | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 494 | Structure - Temp. Works Design and Method Statement Submission | 0 days | | 0 days | 0% | Mon 26/7/21 | Mon 26/7/21 | | NA | Fri 3/9/21 | Fri 3/9/21 | 39 days 0.5 days | | | | 26/7 | | | | |
| 495 | Structure - Temp. Works Design and Method Statement Comment & Appraoval | 47 days | 0 days | 47 days | 0% | Mon 26/7/21 | Fri 10/9/21 | NA | NA | Fri 3/9/21 | Tue 19/10/21 | 39 days 2 days | 1494 | | | | | | | |
| tle. Roy 11 Dr | og with Progress | Summary | | | Inactive M | filestone \Diamond | | Duration-o | only | | Start-only | Е | Exte | mal Milestone | \$ | C | ritical Split | | | |
| INCV. I I FI | 20 Split | Project Sur | nmarv | | Inactive S | ummary | | Manual Su | mmary Rollup | | Finish-only | 3 | Dead | lline | 1 | Pr | rogress | _ | | _ |

| | | | | | | Cont | Iact No. ED | /2010/01 K | TD Project | | | | | | | | | | | | |
|-------|--|--------------------------|-----------------------|------------------------|--------------|--------------|--------------|--------------|---------------|--------------|----------------|----------|------------------------|---------------|-----------|---------|----------------|-----------------------|--------------------|--------|-----------------------|
| Γ | Task Name | Duration Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finis | sh Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 | 04 01 | 2021 | 04 01 | 2022 Q2 Q3 Q | M 01 1 0 | 2023 | 04 0 |
| 96 | Structure work | 45 days 0 days | 45 days | 0% | Thu 7/10/21 | Mon 29/11/21 | NA | NA | Wed 20/10/21 | Fri 10/12/21 | 10 days | 0.5 days | 1493,506,1495 | Q2 Q3 (| Q4 Q1 | Q2 Q3 | Q4 Q1 | , Q2 Q3 Q | 04 Q1 Q | 2 Q3 | <u>Q4</u> <u>Q1</u> |
| 97 | MIC toilet unit | 24 days 0 days | 24 days | 0% | Tue 30/11/21 | Wed 29/12/21 | NA | NA | Sat 11/12/21 | Tue 11/1/22 | 10 days | 0.5 days | 1496 | | | | | | | | |
| 98 | MIC toilet unit: E&M and ABWF works | 75 days 0 days | 75 days | 0% | Thu 30/12/21 | Thu 31/3/22 | NA | NA | Wed 23/2/22 | Wed 25/5/22 | 43 days | 3 days | 1497,717 | | | | | <u></u> | | | |
| 99 | Observation Tower Construction | 31 days 0 days | 31 days | 0% | Thu 30/12/21 | Tue 8/2/22 | NA | NA | Wed 19/1/22 | Sat 26/2/22 | 16 days | 1 day | 1496,1497 | | | | | | | | |
| 500 | Observation Tower: Building Works and E&M Works | 76 days 0 days | 76 days | 0% | Wed 9/2/22 | Thu 12/5/22 | NA | NA | Mon 28/2/22 | Tue 31/5/22 | 16 days | 1 day | 1499 | | | | | | | | |
| 501 | Refuse Collection Block and Back of House: Structure Works | 101 days 0 days | 101 days | 0% | Wed 9/2/22 | Sat 11/6/22 | NA | NA | Fri 20/5/22 | Sat 17/9/22 | 82 days | 1 day | 1496,1497,1499 | | | | #_ | | | | |
| 502 | Refuse Collection Block and Back of House: Building Works and E&M | 131 days 0 days | 131 days | 0% | Mon 13/6/22 | Wed 16/11/22 | NA | NA | Mon 19/9/22 | Fri 24/2/23 | 82 days | 1 day | 1501 | | | | | | | | |
| 03 | Works Amphitheater | 95 days 0 days | 95 days | 0% | Wed 9/2/22 | Sat 4/6/22 | NA | NA | Wed 11/5/22 | Wed 31/8/22 | 74 days | 5 days | 1496,639,646,14 | | | | #_ | | | | |
| 04 | Fast food (Light Refreshment) kiosk deck | 45 days 0 days | 45 days | 0% | Tue 30/11/21 | Mon 24/1/22 | NA | NA | Thu 20/1/22 | Wed 16/3/22 | 41 days | 0.5 days | 611,1496,604,61 | | | | | | | | |
| 05 | Fast food (Light Refreshment) Kiosk: Building Works and E&M Works | 86 days 0 days | 86 days | 0% | Sat 26/2/22 | Sat 11/6/22 | NA | NA | Thu 17/3/22 | Thu 30/6/22 | 16 days | 1 day | 1504,639,646,14 | | | | + | | | | |
| 06 | Fitness Ground Lawn & Water Play Plaza | 82 days 0 days | 82 days | 0% | Mon 13/6/22 | Sat 17/9/22 | | NA | Sat 2/7/22 | Sat 8/10/22 | 16 days | | days,1500FF+25 1505 | | | | | | | | |
| 07 | Stepped Stage and Seating & Back of House Facility (under Bridge D3) | 30 days 0 days | 30 days | 0% | Mon 22/8/22 | Mon 26/9/22 | | NA | Thu 1/9/22 | Sat 8/10/22 | 9 days | | 1503,1485 | | | | | | | | |
| 08 | Trim and form formation level within Open Space & Promenade area | 45 days 0 days | 45 days | 0% | Tue 27/9/22 | Sat 19/11/22 | | NA | Mon 10/10/22 | Wed 30/11/22 | 1 | | 1507,1505,1506, | | | | | | | | |
| 09 | Paving work & Hard Landscaping Works | 45 days 0 days | 45 days | 0% | | Thu 12/1/23 | | NA | Thu 1/12/22 | Thu 26/1/23 | | 2 days | 1508,1500,1498 | | | | | | | | |
| 510 | | | | | | | | | | | 1 | _ | | | | | | | | | |
| | ABWF, E&M work and street furniture | 75 days 0 days | 75 days | 0% | | Mon 20/2/23 | | NA NA | Sat 25/2/23 | Tue 30/5/23 | 79 days | | 1508,1509SS,15 | | | | | | 0/1 | | |
| 11 | FSD Form 501 Submission for FS Inspection | 0 days 0 days | 0 days | 0% | Mon 9/1/23 | | NA | NA | Mon 1/5/23 | Mon 1/5/23 | 111 days | | 1510SS+50 days | | | | | | 9/1 | | |
| 12 | FSD Inspection | 0 days 0 days | 0 days | 0% | Tue 24/1/23 | Tue 24/1/23 | | NA | Tue 16/5/23 | Tue 16/5/23 | 111 days | | 1511FS+15 days | | | | | | | | |
| 13 | Issuance of FS Certificate | 0 days 0 days | 0 days | 0% | Wed 8/2/23 | Wed 8/2/23 | | NA | Tue 30/5/23 | Tue 30/5/23 | 111 days | | 1512FS+15 days | | | | | | ▼ 8/2 1 | . | |
| 14 | Landscaping works and Planting works | 100 days 0 days | 100 days | 0% | Fri 13/1/23 | Thu 18/5/23 | NA | NA | Fri 27/1/23 | Tue 30/5/23 | 1 | 4 days | 1509,668,1503,6 | | | | | | | .11 | |
| 15 | Open Space & Promenade (From CH1720 - South End) | 477 days 0 days | 477 days | 0% | Mon 12/7/21 | Mon 13/2/23 | NA | NA | Sun 1/8/21 | Tue 30/5/23 | 18 days | | | | | | | | | | |
| 16 | Modification Seawall - Temp. Works Design and Method Statement Submission | 0 days 0 days | 0 days | 0% | Mon 12/7/21 | Mon 12/7/21 | NA | NA | Sun 1/8/21 | Sun 1/8/21 | 20 days | 1 day | | | | 12/7 | | | | | |
| 17 | Modification Seawall - Temp. Works Design and Method Statement Comment & Appraoval | k 30 days 0 days | 30 days | 0% | Mon 12/7/21 | Tue 10/8/21 | NA | NA | Sun 1/8/21 | Mon 30/8/21 | 20 days | 2 days | 1516 | | | | | | | | |
| 18 | Modification (Seawall) CH1720-1820 | 150 days 0 days | 150 days | 0% | Wed 11/8/21 | Fri 11/2/22 | NA | NA | Tue 31/8/21 | Thu 3/3/22 | 17 days | 1 day | 1517 | | | | | | | | |
| 19 | Modification (Seawall) CH1820-1920 | 150 days 0 days | 150 days | 0% | Wed 15/9/21 | Fri 18/3/22 | NA | NA | Thu 7/10/21 | Fri 8/4/22 | 17 days | 1 day | 1518SS+30 days | | | | |) | | | |
| 20 | Temporary toilet | 24 days 0 days | 24 days | 0% | Mon 13/9/21 | Tue 12/10/21 | NA | NA | Fri 14/1/22 | Mon 14/2/22 | 100 days | 0.5 days | 506,655,660 | | | | $h \mid l'$ | | | | |
| 21 | Temporary Toilet: Building Works and E&M Works | 75 days 0 days | 75 days | 0% | Wed 13/10/21 | Wed 12/1/22 | NA | NA | Sat 28/1/23 | Sat 29/4/23 | 385 days | 0.5 day | 1520,655,660 | | | | | | | | |
| 22 | Temporary Management Office: Structure Works | 45 days 0 days | 45 days | 0% | Sat 25/9/21 | Thu 18/11/21 | NA | NA | Wed 26/1/22 | Tue 22/3/22 | 100 days | 0.5 days | 1520SS+10 days | | | | | \vdash | | | |
| 23 | Temporary Management Office: Building Works and E&M Works | 100 days 0 days | 100 days | 0% | Fri 19/11/21 | Tue 22/3/22 | NA | NA | Wed 23/3/22 | Sat 23/7/22 | 100 days | 0.5 day | 1522,655,660 | | | | + | | | | |
| 24 | Floating Stage Concrete structure | 18 days 0 days | 18 days | 0% | Sat 19/3/22 | Sat 9/4/22 | NA | NA | Sat 9/4/22 | Tue 3/5/22 | 17 days | 0 days | 1519,1518,1522 | | | | + | <u> </u> | | | |
| 25 | Stepped Seating at Southern End | 24 days 0 days | 24 days | 0% | Mon 11/4/22 | Wed 11/5/22 | NA | NA | Wed 4/5/22 | Tue 31/5/22 | 17 days | 0.5 days | 1524 | | | | | | | | |
| 26 | Trim and form formation level within Open Space & Promenade area | 14 days 0 days | 14 days | 0% | Thu 12/5/22 | Fri 27/5/22 | NA | NA | Wed 1/6/22 | Fri 17/6/22 | 17 days | 0 days | 1525 | | | | | | | | |
| 27 | Paving work and Landscaping Works | 30 days 0 days | 30 days | 0% | Sat 28/5/22 | Mon 4/7/22 | NA | NA | Sat 18/6/22 | Sat 23/7/22 | 17 days | 0.5 days | 1526,1522,1525, | | | | | | | | |
| 28 | ABWF, E&M work and street furniture | 75 days 0 days | 75 days | 0% | Tue 5/7/22 | Fri 30/9/22 | NA | NA | Mon 25/7/22 | Sat 22/10/22 | 17 days | 1 day | 1527,717,1523 | | | | | + | | | |
| 29 | CLP Meter Installation | 0 days 0 days | 0 days | 0% | Fri 30/9/22 | Fri 30/9/22 | NA | NA | Mon 1/5/23 | Mon 1/5/23 | 212 days | 0.5 day | 1528,1521,1523 | | | | | → 30 | 9/9 | | |
| 30 | FSD Form 501 Submission for FS Inspection | 0 days 0 days | 0 days | 0% | Thu 8/12/22 | Thu 8/12/22 | NA | NA | Mon 1/5/23 | Mon 1/5/23 | 144 days | 0.5 day | 1529 | | | | | | 8/12 | | |
| 31 | FSD Inspection | 0 days 0 days | 0 days | 0% | Thu 22/12/22 | Thu 22/12/22 | NA | NA | Tue 16/5/23 | Tue 16/5/23 | 144 days | | 1530FS+15 days | | | | | | 22/12 | | |
| 32 | Issuance of FS Certificate | 0 days 0 days | 0 days | 0% | Fri 6/1/23 | Fri 6/1/23 | | NA | Tue 30/5/23 | Tue 30/5/23 | 144 days | | 1531FS+15 days | | | | | | 6/1 | | |
| 33 | Open Space & Promenade: Landscaping works | 110 days 0 days | 110 days | 0% | Mon 3/10/22 | Mon 13/2/23 | | NA | Mon 24/10/22 | Sat 4/3/23 | 17 days | | 1528,668,1243FI | | | | | | 0/1 | | |
| 34 | Open Space & Promenade: Planting works | 110 days 0 days | 110 days | 0% | Mon 3/10/22 | Mon 13/2/23 | | NA | Mon 24/10/22 | Sat 4/3/23 | 17 days | | 1528,668,1243FI | | | | | | |] | |
| 35 | Part 1, 2A, 2B - Road L12 | 193 days 0 days | 193 days | 0% | Tue 23/8/22 | Mon 17/4/23 | | NA | Thu 6/10/22 | Tue 30/5/23 | 35 days | | 1520,000,124311 | | | | | | | | |
| 36 | Part 1, 2A, 2B - Road L12 Trim road formation | | | 0% | | Thu 25/8/22 | | NA NA | | | | | 1274,1283,1296, | | | | | # | | | |
| | | 3 days 0 days | 3 days | | Tue 23/8/22 | | | | Thu 6/10/22 | Sat 8/10/22 | 35 days | - | | | | | | 1 | | | |
| 37 | Lay sub base | 7 days 0 days | 7 days | 0% | Fri 26/8/22 | Fri 2/9/22 | | NA | | Mon 17/10/22 | | | 1536 | | | | | 1 | | | |
| 538 | Lay kerb | 12 days 0 days | 12 days | 0% | Sat 3/9/22 | Sat 17/9/22 | | NA | Tue 18/10/22 | Mon 31/10/22 | | - | 1537 | | | | | 1 | | | |
| 539 | Construct pedestrian street/ footpath | 14 days 0 days | 14 days | 0% | Mon 19/9/22 | Thu 6/10/22 | | NA | Tue 1/11/22 | Wed 16/11/22 | | - | 1538 | | | | | | | | |
| 40 | Install central median | 14 days 0 days | 14 days | 0% | Fri 7/10/22 | Sat 22/10/22 | NA | NA | Thu 17/11/22 | Fri 2/12/22 | 35 days | 1 day | 1539 | | | | | | | | |
| e: Re | ev. I I Prod with Progress | Summary | | Inactive M | | | Duration-o | | | Start-only | | | | nal Milestone | \$ | | Critical Split | | | | |
| | 2-May-20 Split | Project Summary | | Inactive S | ummary | | Manual Su | mmary Rollup | | Finish-only | | 3 | Dead | line | 4 | P | rogress | | | | |

| | | | | | | | Con | tract No. ED/ | 2018/01 KT | D Project | | | | | | | | | | | | | |
|------|--|----------|--------------------|-----------------------|------------------------|--------------|--------------|---------------|---------------|--------------|--------------|----------------|----------|-----------------|-----------------|------|-------------|------------------|---------|----------|---------|--------------|-------|
| 1 | Task Name | Duration | Actual Duration | Remaining Duration | Physical % Complete | Early Start | Early Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total Slack | TRA | Predecessors | 2020 Q2 Q3 | Q4 C | 01 Q2 | 021 Q3 Q4 | Q1 Q2 | Q2 Q3 Q4 | Q1 Q2 | 2023 Q3 | Q4 Q1 |
| 1541 | Concrete infill between profile barrier | 7 days | 0 days | 7 days | 0% | Mon 24/10/22 | Mon 31/10/22 | NA NA | NA | Sat 3/12/22 | Sat 10/12/22 | 35 days | 0 days | 1540 | | | | | | H | | | |
| 1542 | Road pavement | 5 days | 0 days | 5 days | 0% | Tue 1/11/22 | Sat 5/11/22 | NA | NA | Mon 12/12/22 | Fri 16/12/22 | 35 days | 0 days | 1541 | | | | | | <u> </u> | | | |
| 1543 | Install street furniture (Part 1, 2A, 2B - Road L12) | 131 days | 0 days | 131 days | 0% | Mon 7/11/22 | Mon 17/4/23 | NA | NA | Sat 17/12/22 | Tue 30/5/23 | 35 days | 6 days | 1542 | | | | | | | | | |
| 544 | Planting Works for Underpass, South Depress Road and At-Grade Road | 130 days | 0 days | 130 days | 0% | Mon 7/11/22 | Sat 15/4/23 | NA | NA | Mon 19/12/22 | Tue 30/5/23 | 36 days | 10 days | 668 | | | | | | | | | |
| 545 | Landscaping Works for Underpass, South Depress Road and At-Grade | 130 days | 0 days | 130 days | 0% | Mon 7/11/22 | Sat 15/4/23 | NA | NA | Mon 19/12/22 | Tue 30/5/23 | 36 days | 10 days | 668 | | | | | | * | | | |
| 546 | Planned Completion for Section 6 | 0 days | 0 days | 0 days | 0% | Thu 18/5/23 | Thu 18/5/23 | NA | NA | Tue 30/5/23 | Tue 30/5/23 | 9 days | 0 days | 1533,1543,1532, | | | | | | | * | 18/5 | |
| 547 | Section 7 | 365 days | 0 days | 365 days | 0% | Mon 6/3/23 | Wed 29/5/24 | NA | NA | Mon 6/3/23 | Wed 29/5/24 | 0 days | | | | | | | | | | | |
| 548 | Establishment work for landscape softwork | 365 days | 0 days | 365 days | 0% | Mon 6/3/23 | Wed 29/5/24 | NA | NA | Mon 6/3/23 | Wed 29/5/24 | 0 days | 10 days | 1533,1534 | | | | | | | | | |
| 549 | Planned Completion for Section 7 | 0 days | 0 days | 0 days | 0% | Wed 29/5/24 | Wed 29/5/24 | NA | NA | Wed 29/5/24 | Wed 29/5/24 | 0 days | | 1548,6 | | | | | | | | | |
| 550 | Section 10 (Subject to Excision) | 614 days | 0 days | 614 days | 0% | Tue 20/4/21 | Thu 11/5/23 | NA | NA | Mon 10/5/21 | Tue 30/5/23 | 15 days | | | | | Н | | | | | | |
| 551 | Decking for Underpass (Rd L14) | 614 days | 0 days | 614 days | 0% | Tue 20/4/21 | Thu 11/5/23 | NA | NA | Mon 10/5/21 | Tue 30/5/23 | 15 days | | | | | Н | | | | | | |
| 552 | Deck for Underpass (Road L14) - Temp. Works Design and Method Statement Submission | 0 days | 0 days | 0 days | 0% | Tue 20/4/21 | Tue 20/4/21 | NA | NA | Mon 10/5/21 | Mon 10/5/21 | 20 days | 0.5 day | | | | ◆ 20 | /4 | | | | | |
| 553 | Deck for Underpass (Road L14) - Temp. Works Design and Method Statement Comment & Appraoval | 21 days | 0 days | 21 days | 0% | Tue 20/4/21 | Mon 10/5/21 | NA | NA | Mon 10/5/21 | Sun 30/5/21 | 20 days | 0.5 day | 1552 | | | * | | | | | | |
| 554 | Support along U-through | 225 days | 0 days | 225 days | 0% | Mon 31/5/21 | Tue 1/3/22 | NA | NA | Mon 31/5/21 | Tue 1/3/22 | 0 days | 10 days | 23,185,1553,192 | | | * | 7 | | | | | |
| 555 | Plinth installation along support | 123 days | 0 days | 123 days | 0% | Wed 2/3/22 | Fri 29/7/22 | NA | NA | Wed 2/3/22 | Fri 29/7/22 | 0 days | 6 days | 1554 | | | | | * | - | | | |
| 556 | Placing of beam along underpass | 90 days | 0 days | 90 days | 0% | Thu 1/9/22 | Sun 18/12/22 | NA | NA | Thu 1/9/22 | Mon 19/12/22 | 0 days | 4 days | 1555FS+28 days | | | | | | — | | | |
| 557 | Finishing and E&M Works | 110 days | 0 days | 110 days | 0% | Mon 19/12/22 | Fri 5/5/23 | NA | NA | Thu 12/1/23 | Tue 30/5/23 | 20 days | | 1556,279 | | | | | | * | | | |
| 558 | Cover-up (Roof) | 115 days | 0 days | 115 days | 0% | Mon 19/12/22 | Thu 11/5/23 | NA | NA | Mon 19/12/22 | Thu 11/5/23 | 0 days | 5 days | 1556 | | | | | | ¥ | | | |
| 559 | Planned Completion for Section 10 | 0 days | 0 days | 0 days | 0% | Thu 11/5/23 | Thu 11/5/23 | NA | NA | Tue 30/5/23 | Tue 30/5/23 | 19 days | 0.5 days | 1558,158,1557 | | | | | | | * | 11/5 | |

Appendix C – Environmental monitoring schedules

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

May 2021

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

Air Quality Monitoring Station

AM3 - Sky Tower

 $\mbox{AM4}(\mbox{A})$. The Hong Kong Society for the Blind's Factory cum Sheltered Workshop AM7 - Hong Kong Children's Hospital

Noise Quality Monitoring Station

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

M12 - Hong Kong Children's Hospital

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

June 2021

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|------------------------|--------------------------------|----------------------------------|----------------------------------|--------------------------------|-----|
| | | 1 | 2 | 3 | 4 24.1 TOD AM2 | 5 |
| | | | | Weekly Site Inspection | 24-hr TSP: AM3, AM4(A), AM7 | |
| | | | | | 1-hr X3 TSP: AM3, | |
| | | | | | AM4(A), AM7 | |
| 6 | 7 | 8 | 9 | 10 | 30-min Noise: M11, M12 | 12 |
| 0 | / | 0 | 9 | Weekly Site Inspection + | 11 | 12 |
| | | | | SSMC meeting | | |
| | | | | 24-hr TSP: AM3, | | |
| | | | | AM4(A), AM7 | | |
| | | | | 1-hr X3 TSP: AM3, AM4(A), AM7 | | |
| | | | | 30-min Noise: M11, M12 | | |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | | | 24-hr TSP: AM3, | Weekly Site Inspection | | |
| | | | AM4(A), AM7 1-hr X3 TSP: AM3, | | | |
| | | | AM4(A), AM7 | | | |
| | | | 30-min Noise: M11, M12 | | | |
| 20 | 21 | 22 24.1 TGD AM2 | 23 | 24 | 25 | 26 |
| | | 24-hr TSP: AM3, AM4(A), AM7 | | Weekly Site Inspection | | |
| | | 1-hr X3 TSP: AM3, | | | | |
| | | AM4(A), AM7 | | | | |
| 27 | 20 | 30-min Noise: M11, M12 | 20 | | | |
| 27 | 28 24-hr TSP: AM3, | 29 | 30 Weekly Site Inspection | | | |
| | AM4(A), AM7 | | Treekly Site Hispection | | | |
| | 1-hr X3 TSP: AM3, | | | | | |
| | AM4(A), AM7 | | | | | |
| | 30-min Noise: M11, M12 | | | | | |

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

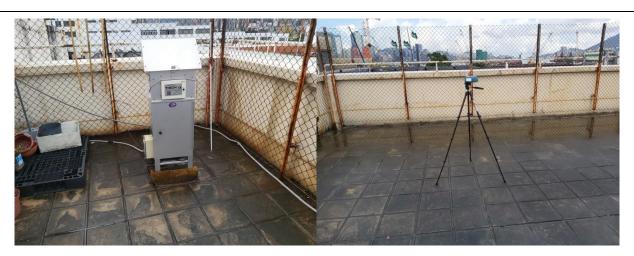
M12 - Hong Kong Children's Hospital

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

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

Catalogue of High Volume Sampler (HVS)



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

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

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

www.tisch-env.com



TSP MFC

MFC TSP Ambient Air Sampler

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

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

Timer: 7 Day Mechanical

Elapsed Time Indicator: Mechanical, Hours and Tenths

Flow Range: 39-60CFM, 1.09M³M-1.68M³M

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

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

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

Institutional Studies Construction Sites

Bridge and Water Tower Painting Sites

Fence Line Monitoring Industrial Monitoring Landfill Monitoring

Public Health Applications

TE-3000 Filter Holder Cartridge

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

TE-33378 Motor Brush Set (220volt)

TE-116311 Replacement Motor (110volt)

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

TE-160 Recorder Pen Points

TE-5018 Gasket 8" x 10"

TE-5028 -Variable Flow Calibration Kit

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

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

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

TE-HVC-V Xcalibrator HiVol Calibrator

Weight: 75lbs, Shelter

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

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





Calibration Certificate of HVS

Air Sampler Calibration Curve Plotting & Calculation

(Dickson recorder)

| Calibration curve ref. No. : | ATSPC-01-2021033102 | Date of calibration: | 31/03/2021 |
|------------------------------|---------------------|----------------------|------------|
| Lanting | Sky Towar | Campler: | TE 5170V |

Calibration Data

| Ambient barometric | pressure, Pa = | 754.6 | (mmHg) | Ambient temperature, | Ta= | 302.15 | (deg K) |
|--------------------|----------------|-------|--------|----------------------|--------|--------|-----------|
| Qstd Slope, m = | 2.04882 | | | Qstd Intercept, b = | -0.011 | 1270 | |

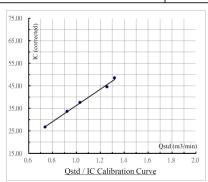
Calibration Curve

| Plate No. | H ₂ O | Qstd | I | IC |
|-----------|------------------|-------------|-----------|---------------|
| Plate No. | (in) | (m^3/min) | (chart) | (corrected) |
| 18 | 7.40 | 1.319 | 49.0 | 48.49 |
| 13 | 6.70 | 1.256 | 45.0 | 44.53 |
| 10 | 4.50 | 1.030 | 38.0 | 37.60 |
| 7 | 3.60 | 0.922 | 34.0 | 33.65 |
| 5 | 2.30 | 0.738 | 27.0 | 26.72 |

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] | 36.037 | 0.2509 | 0.9974 |



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 : Checked by : Wong Yin Tong)

Air Sampler Calibration Curve Plotting & Calculation (Dickson recorder)

| Calibration cu | rve ref. No. : | ATSPC-01-2021033101 | Date of calibration | 1: 31/03/2021 |
|---------------------------------------|----------------|----------------------|---------------------|---------------|
| The Hong Kong Society for the Blind's | | | | |
| Location: | Factory cu | m Sheltered Workshop | Sampler: | TE-5170X |
| | | | | |

Calibration Data

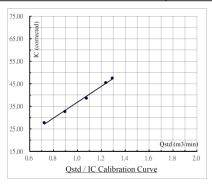
| Ambient barometric | pressure, Pa = | 754.6 | (mmHg) | Ambient temperature, | Ta= | 302.15 | (deg K) |
|--------------------|----------------|-------|--------|----------------------|--------|--------|-----------|
| Qstd Slope, m = | 2.04882 | | | Qstd Intercept, b = | -0.011 | 270 | |

Calibration Curve

| Plate No. | H ₂ O | Qstd | I | IC |
|-----------|------------------|-------------|-----------|---------------|
| Plate No. | (in) | (m^3/min) | (chart) | (corrected) |
| 18 | 7.10 | 1.292 | 48.0 | 47.50 |
| 13 | 6.50 | 1.237 | 46.0 | 45.52 |
| 10 | 4.90 | 1.075 | 39.0 | 38.59 |
| 7 | 3.40 | 0.896 | 33.0 | 32.66 |
| 5 | 2.20 | 0.722 | 28.0 | 27.71 |

Subsequent calculation of sampler flow

| Method | Calibration equation | Slope, m | Intercept, b | Corr. coeff., r | |
|------------------|---|----------|--------------|-----------------|--|
| Dickson recorder | Qstd = 1 / m1 [(I) (Sqrt ((Pav / 760) (298 / Tav))) - b1] | 35.191 | 1.6426 | 0.9969 | |



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 : Checked by : Wong Yin Tong

Form No. INS-HVS-CAL 4d 16 01 2020

Checked by : Wong Yin Tong

Name : (Wong Yin Tong)

Calibration Certificate of HVS Calibration Certificate of HVS Air Sampler Calibration Curve Plotting & Calculation Air Sampler Calibration Curve Plotting & Calculation (Dickson recorder) (Dickson recorder) Calibration curve ref. No. : ATSPC-01-2021033103 Date of calibration 31/03/2021 ATSPC-01-2021011201 Date of calibration: 12/01/2021 Calibration curve ref. No. : Hong Kong Children's Hospital TE-5170X GS2310 10346 Location: Model no: Serial number : Calibration Data **Calibration Data** Ambient barometric pressure, Pa = 754.6 (mmHg) Ambient temperature, Ta = (deg K) Ambient barometric pressure, Pa = 767.4 (mmHg) Ambient temperature, Ta = Qstd Slope, m = 2.04882 Qstd Intercept, b = Qstd Slope, m = 2.04882 Ostd Intercept, b = Calibration Curve Calibration Curve Η₂Ο Qstd Qstd Plate No. (in) (m^3/min) (chart) (corrected) (in) (m^3/min) (chart) (corrected) 18 7.50 1.328 50.0 49.48 18 7.40 1.361 49.0 50.01 6.30 1.218 44.0 43.54 13 6.30 1.256 46.0 46.95 4.70 1.053 39.0 38.59 4 40 1.050 39.0 10 10 39.80 3.60 0.922 34.0 33.65 3.40 0.924 34.0 34.70 2.50 0.769 29.0 28.70 2.20 0.744 28.0 28.58 Subsequent calculation of sampler flow Subsequent calculation of sampler flow Method Calibration equation Calibration equation Intercept, b Corr. coeff., r Method Intercept, b Corr. coeff., r Dickson recorder Qstd = 1 / m1 [(I) (Sqrt ((Pav / 760) (298 / Tav))) - b1] 36.214 0.4780 0.9960 Dickson recorder Qstd = 1 / m1 [(I) (Sqrt ((Pav / 760) (298 / Tav))) - b1 35.217 2.4316 0.9993 75.00 65.00 65.00 55.00 55.00 45.00 45.00 35.00 35.00 25.00 25.00 Ostd (m3/min) Ostd (m3/min) 1.2 1.4 1.2 1.4 Qstd / IC Calibration Curve Qstd / IC Calibration Curve Calibration curve requirements : (A). r > 0.990; (B). At least 3 Qstd numbers are in the TSP range (1.1 - 1.7 m3/min). 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]. Qstd $(m^3 / min) = 1/m [Sqrt (H_2O (Pa / 760) (298 / Ta)) - b].$ Remark: IC (corrected) = I [Sqrt ((Pa / 760) (298 / Ta))].IC (corrected) = I [Sqrt ((Pa / 760) (298 / Ta))].FLOW (corrected) = Sqrt (FLOW (mano) (Pa / 760) (298 / Ta)). FLOW (corrected) = Sqrt (FLOW (mano) (Pa / 760) (298 / Ta)).

Calibrated by

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

(Poon Tsz Wing

Name:

Checked by

Wong Yin Tong)

Name:

Calibrated by:

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

(Poon Tsz Wing

Name:

Wong Yin Tong

Name:

Calibration Certificate for Calibrator RECALIBRATION **DUE DATE:** July 17, 2021 **Calibration Certification Information** Cal. Date: July 17, 2020 Rootsmeter S/N: 438320 Operator: Jim Tisch Pa: 753.4 mm Hg Calibration Model #: TE-5025A Calibrator S/N: 0006 ΔΡ ΔΗ Vol. Init Vol. Final ΔVol. ΔTime (m3) (m3) (min) (mm Hg) (in H2O) (m3)1.4300 4.00 0.9010 5.00 8.8 0.8570 0.7090 12.8 8.00 $\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$ ΔH(Ta/Pa) Qstd Qa (y-axis) (m3) (x-axis) (y-axis) (x-axis) 0.9937 0.6949 1.4128 0.9958 0.8865 1.9980 0.9915 0.9817 1.2536 0.9895 0.9797 2.2338 1.4016 0.9895 1.0982 0.9875 1.0960 1.1509 2.3428 0.988 1.1532 1.4700 1.3837 2.8255 0.9830 1.3865 1.7729 2.04882 1.28293 **QSTD** b= -0.01127 QA -0.00707 0.99999 0.99999 r= Va= ΔVol((Pa-ΔP)/Pa) Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta) Qa= Va/ΔTime For subsequent flow rate calculations: $\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$ $Qa = 1/m \left(\sqrt{\Delta H(Ta/Pa)} - b \right)$ Standard Conditions 298.15 °K RECALIBRATION US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the ΔP: rootsmeter manometer reading (mm Hg) Ta: actual absolute temperature (°K) Determination of Suspended Particulate Matter in Pa: actual barometric pressure (mm Hg the Atmosphere, 9.2.17, page 30 b: intercept m: slope www.tisch-env.com Tisch Environmental, Inc. 145 South Miami Avenue TOLL FREE: (877)263-7610 FAX: (513)467-9009 Village of Cleves, OH 45002

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/m³

Zero stability ±0.001 mg/m3 over 24 hours

using 10-second time-constant Temperature Coefficient Approximately +0.0005 mg/m³ per

°C (for variations from temperature at which instrument was last zeroed)

Flow Rate

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

Temperature Range

32 to 120°F (0 to 50°C)

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

Operational Humidity

0 to 95% RH, non-condensing

Time Constant (LCD display)

Jser-adjustable, 1 to 60 seconds

Data Logging

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

User-Select Calibration Factors

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

Physical

Weight

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

801743 battery

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

with 801708, 801722, 801728, 801735, or 801736 battery

16 oz (0.46 kg) with 801723, 801724,

801729 or 801743 battery 19 oz (0.54 kg) with 801708, 01722,

801728, 801735, or 801736 battery

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

Power Supply/Charger (P/N 2613210) Input Voltage Range 100 to 240 VAC. S0 to 60 Hz

Input Voltage Range Output Voltage 9 VDC@10 A

Maintenance

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

Communications Interface

Type Connector, Instrument USB Mini-B (socket)

Minimum Computer Requirements for

TrakPro™ Data Analysis Software Communications Port Universal Serial Bus (USB)

v 1.1 or higher

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

Battery Performance

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

*Of a fully depleted battery

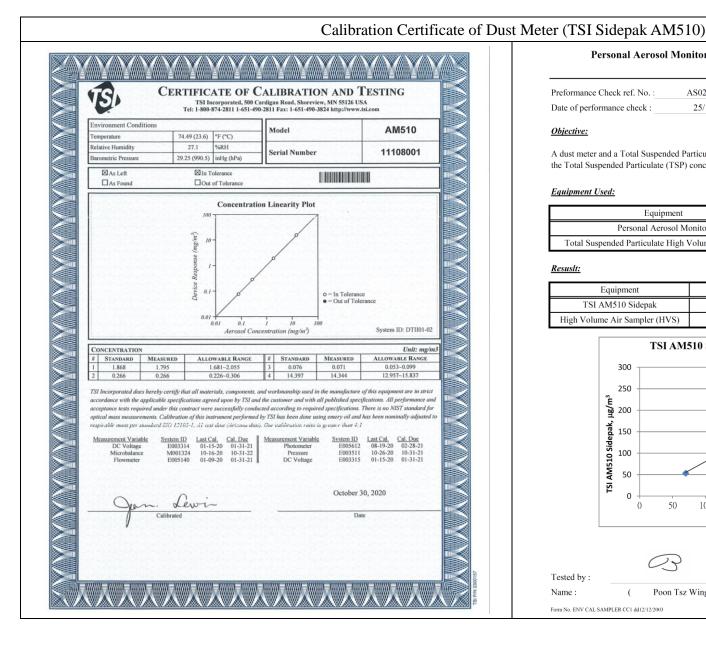
**All dust plugs and dust gaskets must be installed.

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

Battery Level Indicator

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





Personal Aerosol Monitor Performance check with High Volume Sampler

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

Objective:

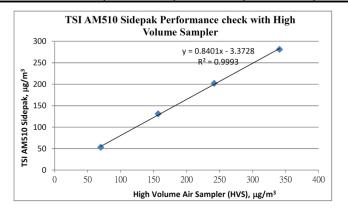
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

Equipment Used:

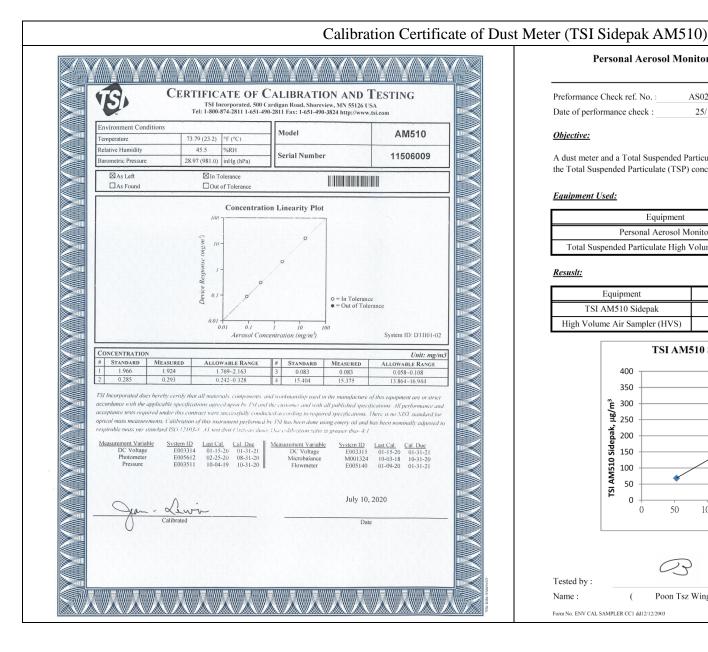
| Equipment | Manufacturer and Model | Serial Number |
|---|------------------------|---------------|
| Personal Aerosol Monitor | TSI AM510 Sidepak | 11108001 |
| Total Suspended Particulate High Volume Air Sampler | GS2310 | 10346 |

Resustt:

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



| | | O? | | | | 1 | |
|-----------------|---------------|---------------|---|-------------|---|---------------|---|
| Tested by: | |) | | Checked by: | | , , | |
| Name: | (| Poon Tsz Wing |) | Name: | (| Wong Yin Tong |) |
| EN- END/CAL CAN | IN ED CC1 441 | 12/12/2002 | | | | | |



Personal Aerosol Monitor Performance check with High Volume Sampler

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

Objective:

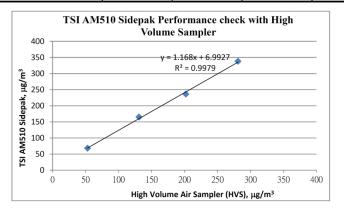
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

Equipment Used:

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

Resustt:

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



| Tested by: | | 03 | | Checked by: | | | | | |
|----------------------|----------------|---------------|---|-------------|---|---------------|---|--|--|
| Name : | (| Poon Tsz Wing |) | Name: | (| Wong Yin Tong |) | | |
| Form No. ENV.CAL SAM | IDI ED CCI 441 | 2/12/2002 | | | | | | | |

Catalogue of Weather Station

Cabled Vantage Pro2™ & Vantage Pro2 Plus™ Stations



6152C 6162C

Vantage Pro2™

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

Integrated Sensor Suite (ISS)

Non-operating Temperature -40° to +158°F (-40° to +70°C) console and ISS

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

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

ISS Dimensions(not including anemometer or bird spikes):

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

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

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

Vantage Pro2

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

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

Wind

Wind Chill (Calculated)

Range -110° to +135°F (-79° to +57°C)

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

Update Interval 2.5 to 3 seconds

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.: CC0022012

1. Description

| a. Description | |
|--------------------------|---|
| Calibration item : | a) Temperature b) Relative humidity c) Wind Speed d) Wind Direction |
| Equipment description : | Weather Station |
| Manufacturer : | Davis Vantage Pro 2 |
| Type / Model No.: | 6312CEU |
| Serial No. : | AY170606003 |
| Assigned equipment no. : | N/A |
| 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 : | 8 December 2020 | 73/ V |

3. Date of performance of the calibration

Date of calibration : 11 December 2020

Approved Signatory
Warren Yeung Lister Yeng

Company Chop: Certificate issue date: 15 December 2020

Page 1 of 4

oc0022012

The certificate shall not reproduced except in full without the written approval of CAL LAS 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, 25-35 Sha 15ui Road, Tsuen Wan, NT, Hong Kong
Tel (852)2560106 Fau(852)3011694 Email: info@faulabs.com.ph; Website.callub.com.jn;



4. Result of Calibration

a) Temperature

| Reference reading ; ℃ | Reading; *C | Error of indication; °C |
|-----------------------|-------------|-------------------------|
| 15.0 | 15 | 0.0 |
| 20.0 | 20 | 0.0 |
| 25.0 | 25 | 0.0 |
| 30.0 | 30 | 0.0 |

Estimated expanded uncertainty: 1 °C

Technical Requirement: N/A

Note: The technical requirement is refer to UF \$183-2007

CT-001-04

b) Relative Humidity

Temperature setting of humidity chamber: 23 °C

| Reference reading; % RH | Reading; % RH | Error of indication ; % RH |
|-------------------------|---------------|----------------------------|
| 40.03 | 41.3 | 1.3 |
| 50.00 | 52.0 | 2.0 |
| 70.07 | 72.3 | 2.3 |

Estimated expanded uncertainty: 2.5 %RH

Technical Requirement: N/A

Note: The technical requirement is refer to I/G 1076-2001

CT-002-04

The certificate shall not reproduced except in full without the written approval of CALLAB UTO
 The certificate is issued subject to the latest Term and Condition, available assessable at our web site.

Page 2 of 4 cc0022012

Calibration Certificate of Weather Station



| Reference reading; m/s | Measured reading; m/s | Error of indication; % |
|------------------------|-----------------------|------------------------|
| 0.0 | 0.0 | N/A |
| 2,0 | 2.0 | 0.0 |
| 5.0 | 4.9 | -2.0 |
| 10.0 | 9.8 | -2.0 |
| 15.0 | 14.7 | -2.0 |
| 20.0 | 19.7 | -2.0 |

Estimated expanded uncertainty: 0.5 m/s

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

a) Wind direction

| Reference reading | Measured reading | Error of indication |
|-------------------|------------------|---------------------|
| 00 | O ₀ | O _o |
| 45° | 45° | 0, |
| 90° | 90° | O ₉ |
| 135° | 1350 | O _a |
| 180° | 180° | O ₉ |
| 225° | 2250 | O _a |
| 270° | 270° | 0* |
| 315° | 3150 | 00 |

Estimated expanded uncertainty: 5°

Technical Requirement: N/A

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

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

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

ec0022012

Call Lab Limited

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



5. Reference method for calibration

| Temperature | JIF 1183-2007 |
|-------------------|---------------|
| Relative humidity | JJG 1076-2001 |
| Wind Speed | 50P-251 |
| Wind Direction | 50P-252 |

6. Environment condition of calibration

| Temperature ; "C | 24.3 °C |
|------------------------|---------|
| Relative humidity; %RH | 48 %RH |

7. Reference equipment used in the calibration

| Item | Model | Serial No. | Expiry date | Traceable to |
|------------------------------------|------------|---------------------------|-------------|--------------|
| Platinum resistance thermometer | KPPRHT-A-1 | KCI I-1095, KCI P-1095 | 4 Mar 2022 | SMQ |
| Humidity sensor | KPPRHT-A-1 | KCI I-1095, KCI P-1095 | 4 Mar 2022 | SMQ |
| Reference Anemometer | 405-V1 | 41543692 | 1 Jan 2021 | SMQ |

The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in Note1 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 traoxible to national or international recognised standard and are calibrated on a schedule to maintain the accuracy and good condition.

The result reported in this certificate selec 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: 11 December 2020

*** End of Certificate ***

CT-END-02

1. The cartificate shall not reproduced except in full without the written approval of CALLAB CTD 2. The certificate is issued subject to the latest Term and Condition, available assessable at our web site.

cc0022012

Cal Lab Limited
Address: Boom 2503, Technology Plass, 29-55 Americal Road, Tsuen Wan, NT. Hong Kong
Tel: (853)25580300: Fad(852)5033831 Errall: <u>info@collab.com Nt</u> Websitor.collab.com Nt

Appendix F – Weather information

General Information

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

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

NOTE2: Trace means rainfall less than 0.05 mm

 $\underline{https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2021\&m=5}$

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

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

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

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

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

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

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

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

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

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

Location: AM3 – Sky Tower

| Start Date | Weather | Air Temp. | Atmospheric Pressure | Filter we | eight (g) | Particulate | Elapse | e Time | Sampling Time | Flow (cf | Rate m) | Av. Flow | Total vol. | Conc. |
|------------|---------|--------------|-------------------------|-----------|-----------|-------------|---------|---------|------------------|-------------|------------|-----------------------|------------|---------------|
| | | (°C) | (hPa) | Initial | Final | weight (g) | Initial | Final | (min) | Initial | Final | (m ³ /min) | (m^3) | $(\mu g/m^3)$ |
| 06/05/2021 | Sunny | 28 | 1015.4 | 11.6437 | 11.8161 | 0.1724 | 2899.25 | 2923.28 | 1442 | 52 | 52 | 1.43 | 2062 | 84 |
| 12/05/2021 | Sunny | 31.1 | 1008.3 | 11.6750 | 11.7375 | 0.0625 | 2924.51 | 2948.53 | 1441 | 52 | 52 | 1.42 | 2043 | 31 |
| 18/05/2021 | Sunny | 33.8 | 1009.2 | 11.6665 | 11.7272 | 0.0607 | 2949.71 | 2973.73 | 1441 | 52 | 52 | 1.41 | 2035 | 30 |
| 24/05/2021 | Cloudy | 29.6 | 1009.6 | 11.6847 | 11.7726 | 0.0879 | 2974.34 | 2998.36 | 1441 | 52 | 52 | 1.42 | 2050 | 43 |
| 29/05/2021 | Cloudy | 32.2 | 1007.1 | 11.7478 | 11.8133 | 0.0655 | 2999.09 | 3023.11 | 1441 | 52 | 52 | 1.41 | 2039 | 32 |
| | | | | | | | | | | | | Maxir | num | 84 |
| | | | | | | | | | | | | Minin | num | 30 |
| | | | | | | | | | | | | Aver | age | 44 |
| | | | | | | | | | | | | Action | Level | 182 |
| | | | | | | | | | | | | Limit l | Level | 260 |

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

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

Location: AM7 – Hong Kong Children's Hospital

| Start Date | Weather | Air Temp. | Atmospheric Pressure | Filter we | eight (g) | Particulate | Elapse | Time | Sampling Time | Flow (cf | | Av. Flow | Total vol. | Conc. |
|------------|---------|------------------------|-------------------------|-----------|-----------|-------------|---------|---------|------------------|-------------|-------|-----------------------|------------|---------|
| | | $(^{\circ}\mathbb{C})$ | (hPa) | Initial | Final | weight (g) | Initial | Final | (min) | Initial | Final | (m ³ /min) | (m^3) | (µg/m³) |
| 06/05/2021 | Sunny | 28 | 1015.4 | 18.5106 | 18.6462 | 0.1356 | 7446.01 | 7470.04 | 1442 | 48 | 48 | 1.31 | 1884 | 72 |
| 12/05/2021 | Sunny | 31.1 | 1008.3 | 18.5436 | 18.6175 | 0.0739 | 7472.81 | 7496.83 | 1441 | 44 | 44 | 1.19 | 1710 | 43 |
| 18/05/2021 | Sunny | 33.8 | 1009.2 | 11.7711 | 11.8397 | 0.0686 | 7497.12 | 7521.15 | 1442 | 48 | 48 | 1.29 | 1861 | 37 |
| 24/05/2021 | Cloudy | 29.6 | 1009.6 | 11.6165 | 11.6965 | 0.0800 | 7521.26 | 7545.28 | 1441 | 48 | 48 | 1.30 | 1873 | 43 |
| 29/05/2021 | Cloudy | 32.2 | 1007.1 | 18.4983 | 18.5944 | 0.0961 | 7545.45 | 7569.48 | 1442 | 52 | 52 | 1.40 | 2020 | 48 |
| | | | | | | | | | | | | Maxin | num | 72 |
| | | | | | | | | | | | | Minim | num | 37 |
| | | | | | | | | | | | | Avera | ige | 48 |

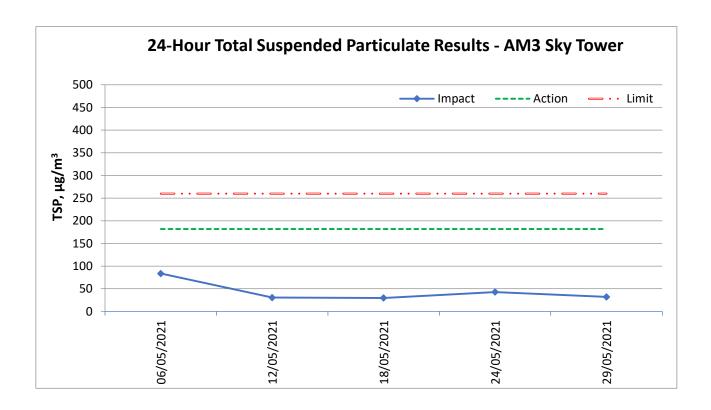
Action Level

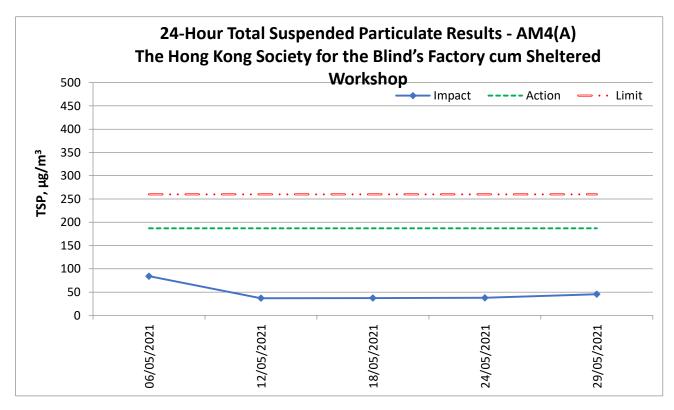
Limit Level

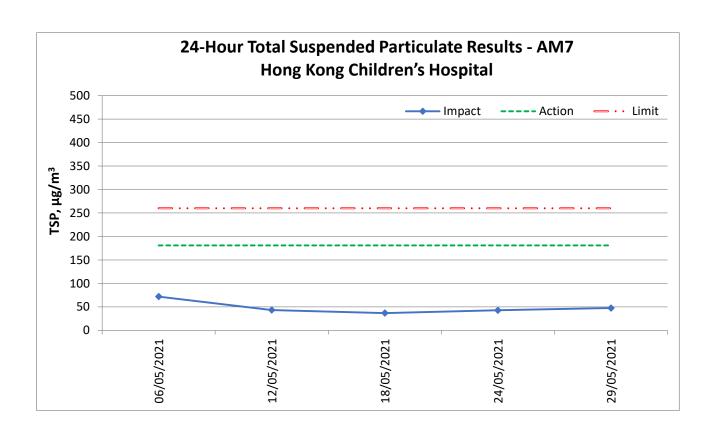
181

260

24-hour average TSP







| $\label{eq:Appendix H-1-hr} \textbf{Appendix H-1-hr TSP monitoring results and graphical presentation}$ |
|---|
| |
| |
| |
| |
| |
| |
| |
| |

Location:
AM3 Sky Tower

| Date | Measure | emei | nt Period | 1-hr TSP concentration, μg/m ³ | Weather | |
|-----------|------------|------|-----------|--|---------|--|
| | 9:00 | - | 10:00 | 44 | | |
| 6/5/2021 | 10:00 | - | 11:00 | 50 | Sunny | |
| | 11:00 | - | 12:00 | 57 | | |
| | 9:00 | - | 10:00 | 21 | | |
| 12/5/2021 | 10:00 | - | 11:00 | 22 | Sunny | |
| | 11:00 | - | 12:00 | 24 | | |
| | 13:00 | - | 14:00 | 18 | | |
| 18/5/2021 | 14:00 | - | 15:00 | 19 | Sunny | |
| | 15:00 | - | 16:00 | 22 | | |
| | 13:00 | - | 14:00 | 27 | | |
| 24/5/2021 | 14:00 | - | 15:00 | 29 | Cloudy | |
| | 15:00 | - | 16:00 | 35 | | |
| | 9:00 | - | 10:00 | 15 | | |
| 29/5/2021 | 10:00 | - | 11:00 | 16 | Cloudy | |
| | 11:00 | - | 12:00 | 20 | | |
| N | Maximum | | | 57 | | |
| N | Minimum | | | 15 | | |
| Average | | | | 28 | | |
| Ac | tion Level | | | 297 | | |
| Li | mit Level | | | 500 | | |

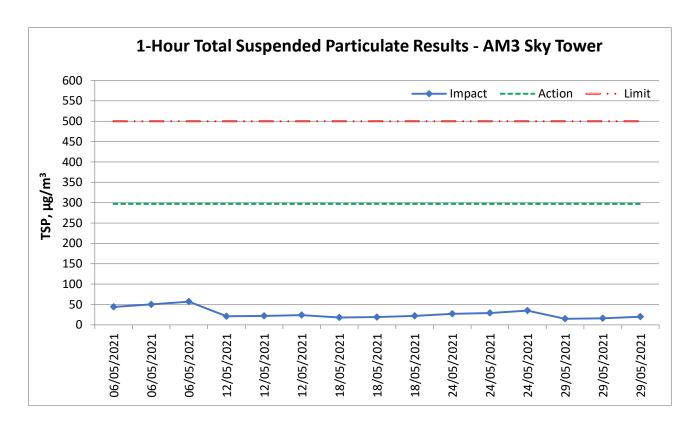
Location:
AM4(A) The Hong Kong
Society for the
Blind's Factory
cum Sheltered
Workshop

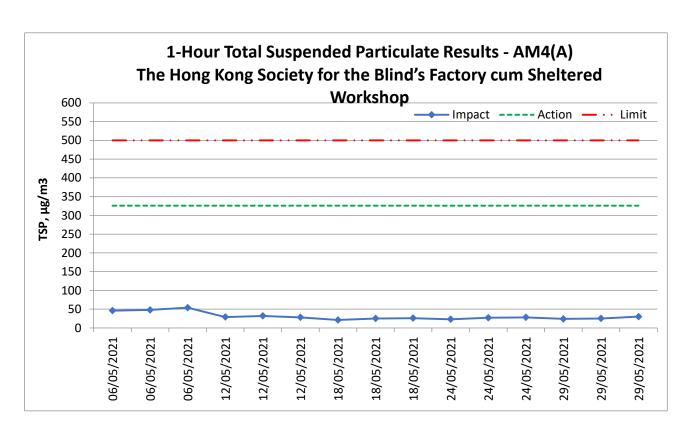
| Date | Measure | emei | nt Period | 1-hr TSP concentration, μg/m ³ | Weather | |
|-----------|--------------|------|-----------|--|---------|--|
| | 9:00 | - | 10:00 | 46 | | |
| 6/5/2021 | 10:00 | - | 11:00 | 48 | Sunny | |
| | 11:00 | - | 12:00 | 54 | | |
| | 14:30 | - | 15:30 | 29 | | |
| 12/5/2021 | 15:30 | - | 16:30 | 32 | Sunny | |
| | 16:30 | - | 17:30 | 28 | | |
| | 9:00 | - | 10:00 | 21 | | |
| 18/5/2021 | 10:00 | - | 11:00 | 25 | Sunny | |
| | 11:00 | - | 12:00 | 26 | | |
| | 13:00 | - | 14:00 | 23 | | |
| 24/5/2021 | 14:00 | - | 15:00 | 27 | Cloudy | |
| | 15:00 | - | 16:00 | 28 | | |
| | 9:00 | - | 10:00 | 24 | | |
| 29/5/2021 | 10:00 | - | 11:00 | 25 | Cloudy | |
| | 11:00 | - | 12:00 | 30 | | |
| N | laximum | | | 54 | | |
| N | 1inimum | | | 21 | | |
| Average | | | | 31 | | |
| Ac | Action Level | | | 326 | | |
| Li | mit Level | | | 500 | | |

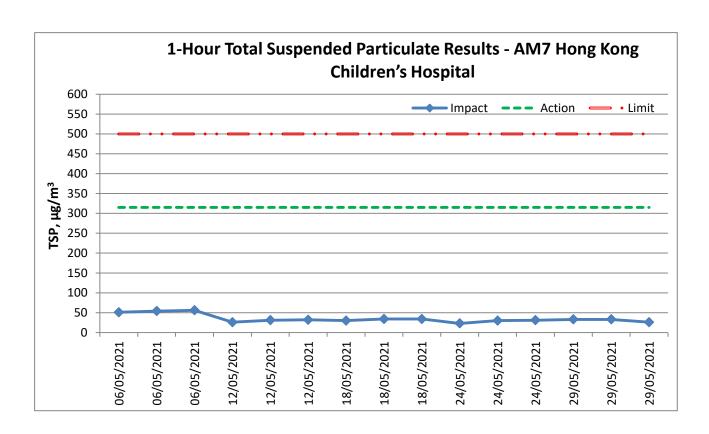
Location:
AM7 Hong Kong
Children's
Hospital

| Date | Meas P | sure erio | | 1-hr TSP concentration, µg/m ³ | Weather | | |
|-----------|--------------|--------------|-------|---|---------|--|--|
| | 13:00 | - | 14:00 | 51 | | | |
| 6/5/2021 | 14:00 | - | 15:00 | 54 | Sunny | | |
| | 15:00 | - | 16:00 | 56 | | | |
| | 9:45 | 1 | 10:45 | 26 | | | |
| 12/5/2021 | 10:45 | - | 11:45 | 31 | Sunny | | |
| | 13:00 | - | 14:00 | 32 | | | |
| | 13:00 | - | 14:00 | 30 | | | |
| 18/5/2021 | 14:00 | - | 15:00 | 34 | Sunny | | |
| | 15:00 | - | 16:00 | 34 | | | |
| | 9:00 | - | 10:00 | 23 | | | |
| 24/5/2021 | 10:00 | - | 11:00 | 30 | Cloudy | | |
| | 11:00 | - | 12:00 | 31 | | | |
| | 13:00 | 1 | 14:00 | 33 | | | |
| 29/5/2021 | 14:00 | - | 15:00 | 33 | Cloudy | | |
| | 15:00 | - | 16:00 | 26 | | | |
| M | Iaximum | | | 56 | | | |
| N | Minimum | | | 23 | | | |
| Average | | | · | 35 | | | |
| Ac | Action Level | | | 315 | | | |
| Li | mit Level | | | 500 | | | |

1-hour average TSP







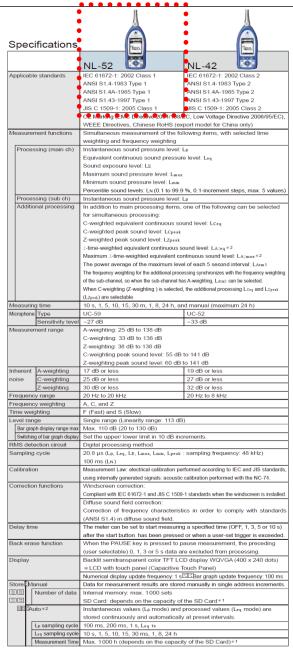
Appendix I – Event and Action Plan for air quality

| T | | Ac | tion | |
|---|---|--|---|---|
| Event | ET | IEC | Supervisor / ER | Contractor |
| Action Level being exceeded by one sampling | Identify source and investigate the causes of exceedance; Inform Contractor, IEC and Supervisor /ER; Repeat measurement to confirm finding. | Check monitoring data submitted by ET; Check Contractor's working method. | 1. Notify Contractor. | Rectify any unacceptable practice; Amend working methods if appropriate. |
| Action Level being exceeded by two or more consecutive sampling | 1. Identify source and investigate the causes of exceedance; 2. Inform Contractor, IEC and Supervisor /ER; 3. Increase monitoring frequency to daily; 4. Discuss with IEC and Contractor on remedial actions required; 5. Assess the effectiveness of Contractor's remedial actions; 6. If exceedance continues, | Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the Supervisor /ER on the effectiveness of the proposed remedial measures. | Confirm receipt of notification of exceedance in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise implementation of remedial measures; Conduct meeting with ET and IEC if exceedance continues. | Discuss with ET and IEC on proper remedial actions; Submit proposals for remedial actions to Supervisor /ER and IEC within three working day of notification; Implement the agreed proposals; Amend proposal if appropriate. |
| Limit Level being exceeded by one sampling | arrange meeting with IEC and Supervisor /ER; 7. If exceedance stops, cease additional monitoring. | Check monitoring data submitted by ET; Check Contractor's working method; Discuss possible remedial measures with ET and Contractor; Advise the Supervisor /ER | Confirm receipt of notification of exceedance in writing; Notify Contractor; | Take immediate action to avoid further exceedance; Discuss with ET and IEC on proper remedial actions; Submit proposal for remedial actions to Supervisor /ER and IEC |

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

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

Catalogue of Sound Level Meter



| Data r | ecall | Allows viewing of stored data | | | | | |
|----------|--------------------------|---|--|--|--|--|--|
| Setup | memory | Up to five setup configurations can be saved in internal memory, for later recal | | | | | |
| | | 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 | 13 | Allows USB to be connected to a computer and recognized as a removable dis | | | | | |
| 22 20 20 | 1 | Allows USB to be controlled via communication commands | | | | | |
| RS-23 | 2C communication | Allows for RS-232C communication via use of a dedicated cable | | | | | |
| Data c | ontinuous output*2 | | | | | | |
| Тур | e of Instantaneous value | Lp | | | | | |
| dat | a 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 supply | | | | | |
| 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 ℃ | | | | | |
| 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-60VM |
| Waveform analysis software | CAT-WAVE |
| SD Card 512 MB | SD-512M |
| SD Card 2 GB | SD-2G |
| AC adapter (100 ∨ to 240 ∨) | NC-98C |
| Battery pack | BP-21 |
| Microphone extension cables | EC-04 (from 2 m) |
| BNC-Pin output code | CC-24 |
| Comparator output cable | CC-42C |
| Printer | DPU-414 |
| Printer cable | CC-42P |
| RS 232C serial I/O cable | CC-42R |
| USB cable | _ |
| Sound calibrator | NC-74 |
| All-weather windscreen | WS-15 |
| Windscreen mounting adapter | WS-15006 |
| Rain-protection windscreen | WS-16 |
| Sound level meter tripod | ST-80 |
| All-weather windscreen tripod | ST-81 |

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

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



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.

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

1011-4 E 212.P.D



印章:

Stamp

CEPREL Calibration and Testing Centre.

Complaint Tel: 020-87236896

Website: www.ceprei-cal.com

Email: cal@ceprei.com

Service Tel: 020-87237633 Fax: 020-87236189

H.Q. Addr: No.110, Dongguanzhuang Road, Tianhe District, Guangzhou

第 1 页,共 8 页

Page of

Approved by

赛宝计量检测中心

投诉电话: 020-87236896

阅址: www.ceprei-cal.com

邮件: cal@ceprei.com

广州总部地址:广州天河区东莞庄路110号

客服电话: 020-87237633 传真: 020-87236189

说 明 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 L13344。

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

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

 JIG 188-2017 声级计检定规程: Sound pressure level: (20~130)dB; Frequency Weighting: (20~130)dB@(10
- * 详细内容请查看CNAS网站中注册编号为L13344的证书附件, 超出范围的内容未被认可。(Please see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accredited).

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

| 名 称 | 证书写/有效别/遗源平位 | 1人小月4小 |
|---------------|--|---|
| (Description) | (Certificate No./Due Date/Traceability to) | (Specification) |
| 数字多用表 | 4GC19040017-0001/2020-11-03/赛宝 | DCV: ±0.0035%; ACV: ±0.06%; DCI: ±0.05%; ACI: ±0.1%; R: ±0.01%; f: ±0.01% |
| 步进衰减器 | 4GC20000158-0012/2021-04-29/赛宝 | ±3dB |
| 标准传声器 | GFJGJL1001200310164/2021-02-26/航空 304所 | U=(0.05~0,12)dB (k=2) |
| 声校准器 | 4GC19040146-0209/2020-12-29/赛宝 | 1级 |
| 正弦信号发生器 | | f: ±1mHz; 失真度: <-70dB |
| PULSE分析系统 | 4GC20000009-0001/2021-01-08/赛宝 | 频率:Urel=0.001%,k=2;电压:Urel=0.04%,k=2 |
| 前置放大器 | GFJGJL1001200310165/2021-02-26/航空 304所 | U=0.3dB (k=2) |

- 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
- 环境条件(Environmental conditions): 温度(Temperature): 24℃ 相对湿度(Relative Humidity): 60%
- 6. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度的评定与表示》评定,由合成标准不确定度乘以包含概率约为95%时对应的包含因子k得到。

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

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

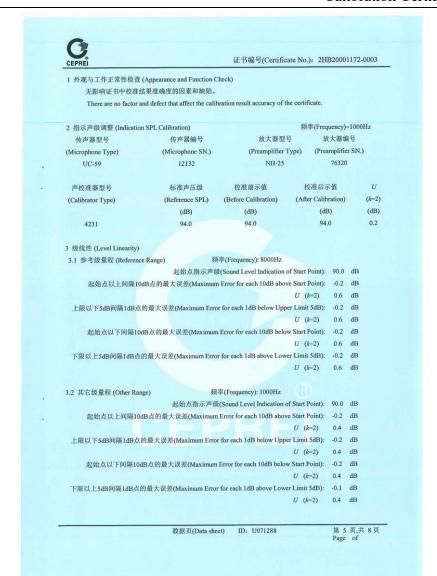
"P" and "Pass" in this certificate stand for "Low Limit'≤the measured value ≤High Limit", "F" and "Fail" stand for "the measured value <Low Limit or the measured value >High Limit", "N/A" stands for "Not Applicable ".The judgment rules and conclusions of this certificate are for reference only. Users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

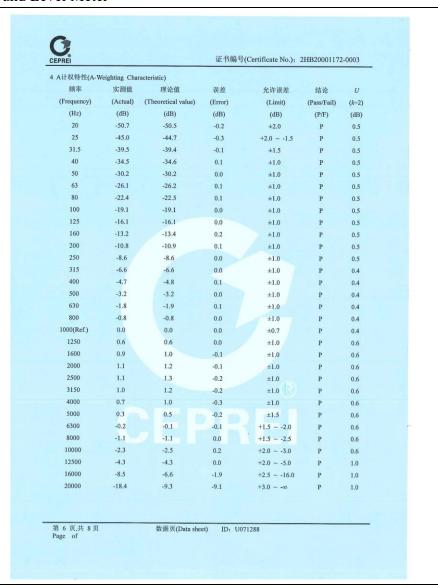
8. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委托方参考。委托方可以根据实际使用情况自行决定样品的建议校准周期。

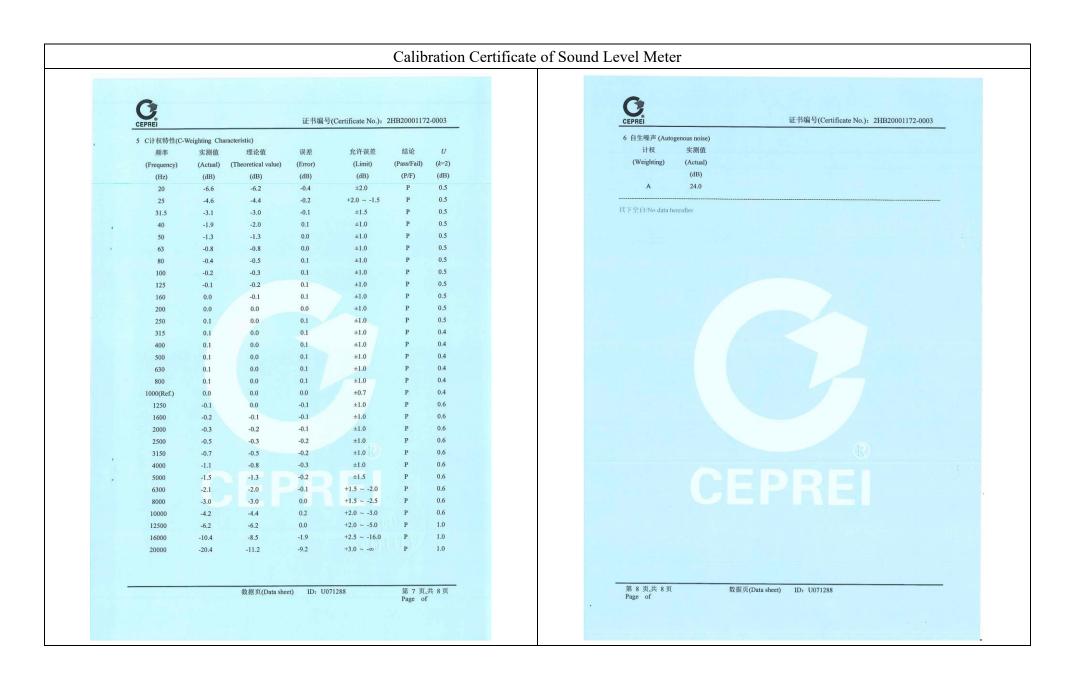
The reference calibration period is based on the reference documents and normal operating conditions of the calibrated instrument. It is only for reference. The client may decide the calibration period of the instrument according to the actual use.

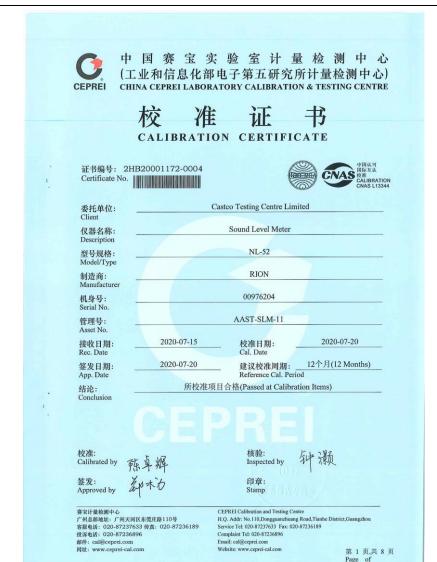
- 注: 1.本证书未经本机构书面授权,不得部分复制。(The certificate shall not be partly reproduced without written approval of the laboratory.)
 - 2.本次校准结果仅与被校物有关。(The results are only related to the items calibrated.)

第 3 页,共 8 页 Page of









. 明

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 L13344。

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

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

 JUG 188-2017 声级计检定规程: Sound pressure level: (20~130)dB; Frequency Weighting: (20~130)dB@(10
- * 详细内容请查看CNAS网站中注册编号为L13344的证书附件,超出范围的内容未被认可。(Please see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accredited).
- 3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration): 法未将标

| 名 称 | 证书号/有效期/溯源甲位 | 技不指标 |
|---------------|--|---|
| (Description) | (Certificate No./Due Date/Traceability to) | (Specification) |
| 数字多用表 | 4GC19040017-0001/2020-11-03/赛宝 | DCV: ±0.0035%; ACV: ±0.06%; DCI: ±0.05%; ACI: ±0.1%; R: ±0.01%; f: ±0.01% |
| 步进衰减器 | 4GC20000158-0012/2021-04-29/赛宝 | ±3dB |
| 标准传声器 | GFJGJL1001200310164/2021-02-26/航空 304所 | U=(0.05~0.12)dB (k=2) |
| 声校准器 | 4GC19040146-0209/2020-12-29/赛宝 | 1级 |
| 正弦信号发生器 | 4GC19040057-0001/2020-11-05/赛宝 | f: ±1mHz; 失真度: <-70dB |
| PULSE分析系统 | 4GC20000009-0001/2021-01-08/赛宝 | 頻率:Uref=0.001%,k=2;电压:Uref=0.04%,k=2 |
| 前置放大器 | GFJGJL1001200310165/2021-02-26/航空 | U=0.3dB (k=2) |

- 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): 24°C 相对湿度(Relative Humidity): 60%
- 6. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度的评定与表示》评定,由合成标准不确定度乘以包含概率约为95%时对应的包含因子k得到。

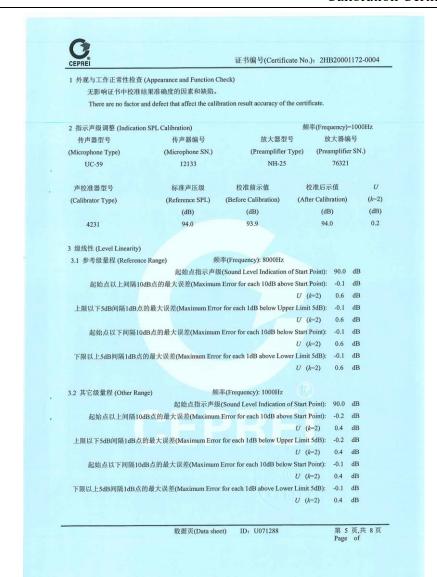
The extended uncertainty given in this certificate is evaluated according to JJF1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", and is calculated by multiplying the combined standard uncertainty by the coverage factor k which corresponding to the coverage probability about 95%.

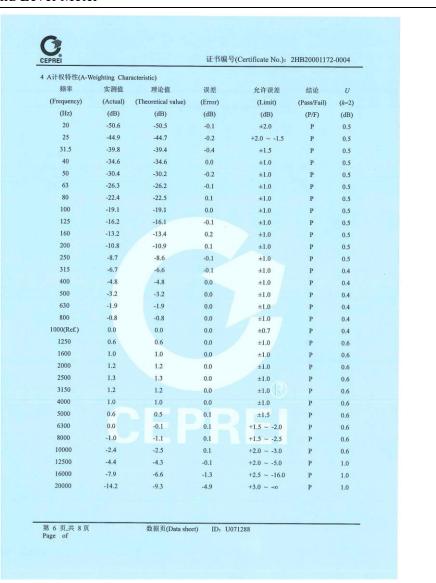
- 7. 证书中"P"、"合格"代表"测量结果在允许范围内","F"、"不合格"代表"测量结果不在允许范围内","F"、"不合格"代表"测量结果不在允许范围内","N/A"代表"不适用"。本证书报告的判定规则和结论仅供参考,使用人员应结合实际测量的要求合理使用,如考虑测量结果测量不确定度的影响等。
- "P" and "Pass" in this certificate stand for "Low Limit≤the measured value ≤High Limit", "F" and "Fail" stand for "the measured value <Low Limit or the 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. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委托方参考。委托方可以根据实际使用情况自行决定样品的建议校准周期。

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

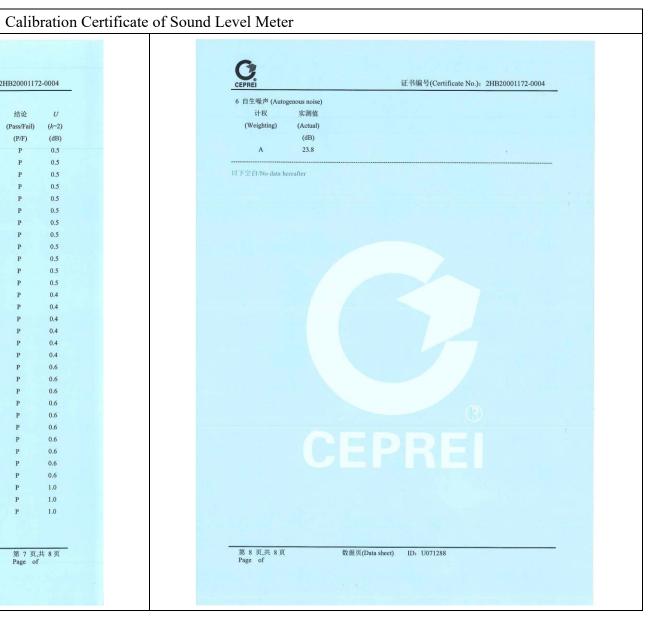
- 注: 1.本证书未经本机构书面授权,不得部分复制。(The certificate shall not be partly reproduced without written approval of the laboratory.)
- 2.本次校准结果仅与被校物有关。(The results are only related to the items calibrated.)

第 3 页,共 8 页 Page of





证书编号(Certificate No.): 2HB20001172-0004 5 C计权特性(C-Weighting Characteristic) 误差 允许误差 (k=2) (Frequency) (Actual) (Theoretical value) (Error) (Limit) (Pass/Fail) (dB) (dB) (Hz) -6.4 -6.2 -0.2 ±2.0 0.5 20 25 -4.5 -4.4 -0.1 0.5 -3.0 -0.1 ±1.5 0.5 31.5 -3.1 40 -2.1 -2.0 ±1.0 0.5 50 -1.3 -1.3 0.0 -0.8 -0.1 ±1.0 0.5 63 -0.9 ±1.0 0.5 -0.5 -0.5 -0.3 -0.3 0.0 ±1.0 0.5 100 125 -0.1 -0.2 ±1.0 0.5 160 -0.1 -0.1 0.0 ±1.0 0.5 ±1.0 0.5 200 0.0 ±1.0 0.5 250 0.0 0.0 0.4 315 0.0 0.0 ± 1.0 400 0.0 0.0 ±1.0 0.4 0.0 ±1.0 500 0.0 0.4 630 0.0 0.0 0.0 ±1.0 0.0 0.0 ±1.0 0.4 800 0.0 0.0 0.0 ±0.7 0.4 1000(Ref.) 1250 0.0 0.0 0.0 ±1.0 0.6 1600 -0.1 -0.1 ±1.0 0.6 ±1.0 2000 -0.1 -0.2 0.1 0.6 2500 -0.3 ±1.0 0.0 ±1.0 0.6 -0.5 -0.5 3150 4000 -0.8 -0.8 ±1.0 0.1 0.6 -1.2 -1.3 ±1.5 5000 0.1 6300 -1.9 -2.0 +1.5 ~ -2.0 +1.5 ~ -2.5 -2.9 -3.0 0.1 0.6 8000 -4.3 -4.4 0.1 +2.0 ~ -3.0 0.6 10000 -6.2 +2.0 ~ -5.0 1.0 -1.4 +2.5 ~ -16.0 1.0 -9.9 -8.5 16000 20000 -11.2 +3.0 ~ -00 1.0 数据页(Data sheet) ID: U071288 第 7 页,共 8 页



Catalogue of Sound Calibrator

For microphone calibration NC-74

How to use

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



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

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



Using the 1/2-inch adap

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



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

证书编号: 2HB20001561-0002 Certificate No.





Castco Testing Centre Limited 委托单位: Sound Level Calibrator 仪器名称: Description 型号规格: Model/Type NC-74 RION 制造商: Manufacturer 34678556 机身号: Serial No. AAST-SLC-06 管理号: Asset No. 2020-09-08 2020-09-12 接收日期: 校准日期: Rec. Date Cal. Date 2020-09-12 12个月(12 months) 签发日期: 建议校准周期: App. Date Reference Cal. Period 所校准项目合格(Passed at Calibration Items) 结论: Conclusion

印章: Stamp

CEPREI Calibration and Testing Centre H.Q. Addr: No.110,Dongguanzhuang Road,Tianhe District,Guangzhou

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 客服电话: 020-87237633 传真: 020-87236189 投诉电话: 020-87236896 邮件: cal@ceprei.com 國址: www.ceprei-cal.com

Service Tel: 020-87237633 Fax: 020-87236189 Complaint Tel: 020-87236896 Email: cal@ceprei.com Website: www.ceprei-cal.com

第 1 页,共 5 页 Page of

Calibration Certificate of Sound Calibrator

证书编号(Certificate No.): 2HB20001561-0002

说 明 DIRECTIONS

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

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

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

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

* 详细内容请查看CNAS网站中注册编号为L13344的证书附件,超出范围的内容未被认可。(Please see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accordited).

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

| 名 称 (Description) | 证书号/有效期/溯源单位 (Certificate No./Due Date/Traceability to) | 技术指标 (Specification) | 测量范围 (Measuring Range) |
|-------------------|--|--|---|
| PULSE分析系统 | LSvm2020-02491/2021-04-26/中国计量院 | 频率:Ure=0.001%,k=2;电压: Ure=0.04%,k=2 | 频率:0.001Hz~51.2kHz, 电压:(1×10 ⁻⁵ ~30)V |
| 标准传声器 | 304所 | U=(0.05-0.12)dB (k=2) | 20Hz~20kHz |
| 前置放大器 | GFJGJL1001200310165/2021-02-26/航空 304所 | U=0.3dB (k=2) | (10~20000) Hz |

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): 24℃ 相对湿度(Relative Humidity): 60%

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

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

7. 证书中"P"、"合格"代表"测量结果在允许范围内", "F"、"不合格"代表"测量结果不在允许范围内", "F/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 Limitsthe 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. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委托方参考。委托方可以根据实际使用情况自行决定样品的建议校准周期。

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

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

第 3 页,共 5 页 Page of



Calibration Certificate of Sound Calibrator



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

校 CALIBRATION CERTIFICATE

证书编号: 2HB20001172-0006 Certificate No.



| 委托单位: | Castco Testing Centre Limited | | | | | | | |
|----------------------|-------------------------------|------------------------|--|--|--|--|--|--|
| 仪器名称: Description | | Sound Level Calibrator | | | | | | |
| 型号规格: | NC-74 | | | | | | | |
| Model/Type | 7 A | | | | | | | |
| 制造商: | | RION | | | | | | |
| Manufacturer | | | A STATE OF THE STA | | | | | |
| 机身号: | 34178129 | | | | | | | |
| Serial No. | | | | | | | | |
| 管理号: | AAST-SLC-05 | | | | | | | |
| Asset No. | | | | | | | | |
| 接收日期: | 2020-07-15 | 校准日期: | 2020-07-20 | | | | | |
| Rec. Date | | Cal. Date | | | | | | |
| 签发日期: | 2020-07-21 | 建议校准周期: | 12个月(12 Months) | | | | | |
| App. Date | Reference Cal. Period | | | | | | | |
| 结论: | 所校准项 | 目合格(Passed at Calibra | tion Items) | | | | | |

Approved by

Conclusion

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 客服电话: 020-87237633 传真: 020-87236189 投诉电话: 020-87236896 邮件: cal@ceprei.com 同址: www.ceprei-cal.com

CEPREI Calibration and Testing Centre H.Q. Addr: No.110, Dongguanzhuang Road, Tianhe District, Guangzhou Service Tel: 020-87237633 Fax: 020-87236189 Complaint Tel: 020-87236896

印章:

Stamp

Email: cal@ceprei.com

Website: www.ceprei-cal.com

第 1. 页,共 5 页 Page of

DIRECTIONS

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

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

2. 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes): ■ JJG 176-2005 声校准器检定规程: Sound Pressure Level: 94dB、104dB、114dB、124dB(63Hz~8kHz); 94dB 104dB、114dB,(31.5Hz~16kHz); Frequency: 31.5Hz~16kHz; Harmonic Distortion: 0~10%, (20Hz~20 kHz).

* 详细内容请查看CNAS网站中注册编号为L13344的证书附件,超出范围的内容未被认可。(Please see the attachment of certificate No.

(Certificate No./Due Date/Traceability to) GFJGJL1001200310164/2021-02-26/航空 U=(0.05~0.12)dB(k=2) 标准传市器 GFJGJL1001200310165/2021-02-26/航空 U=0.3dB (k=2) 前置放大器 4GC20000024-0064/2021-02-12/賽宝 频率:Urel=0.001%,k=2;电压:Urel=0.04%,k=2 PULSE分析系统

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): 24°C 相对湿度(Relative Humidity): 60%

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

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

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

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

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

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

注: 1.本证书未经本机构书面授权,不得部分复制。(The certificate shall not be partly reproduced without written approval of the laboratory.)

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

第 3 页,共 5 页 Page of

Calibration Certificate of Sound Calibrator 证书编号(Certificate No.): 2HB20001172-0006 CEPREI 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 测量声压级 声压级差的绝对值 允许范围 结论 (Prescribed SPL) (Measured SPL) (Absolute value of SPL) (Limit) (Pass/Fail) (k=2)(dB) (dB) 0.10 94.38 0.38 ≤0.40 94 3 頻率 (Frequency) 规定频率 测量频率 频率误差的绝对值 允许范围 结论 Urel (Prescribed Fre.) (Measured Fre.) (Absolute value of Fre.) (Limit) (Pass/Fail) (k=2)(%) (Hz) (%) 0.20 0.10 1002.0 <1.00 1000 4 总失真 (Distortion) 规定声压级 总失真 允许范围 Urel (Prescribed SPL) (Measured Fre.) (Distortion) (Limit) (Pass/Fail) (k=2)(%) (dB) (Hz) (%) 1000 2 48 ≤3.00 p 5.0 94 数据页(Data sheet) ID: U013393 第5页,共5页 Page of

Catalogue of Air Flow Meter (TSI TA440)

SPECIFICATIONS

MODELS TA410, TA430 AND TA440

Velocity

Range (TA410) Range (TA430, TA440) Accuracy (TA410)162

0 to 20 m/s (0 to 4,000 ft/min) 0 to 30 m/s (0 to 6,000 ft/min)

Accuracy (TA430, TA440)¹⁶² ±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) Dimensions

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

Volumetric Flow Rate (TA430, TA440)

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

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) Resolution 0.1°C (0.1°F)

Relative Humidity (TA440 only)

5 to 95% RH Range Accuracy⁴ ±3% RH Resolution 0.1% RH

Wet Bulb Temperature (TA440 only)

5 to 60°C (40 to 140°F) Range Resolution

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) Model TA410, TA430 5 to 45°C (40 to 113°F)

-18 to 93°C (0 to 200°F) Model TA440 -10 to 60°C (14 to 140°F) Operating (Probe) -20 to 60°C (-4 to 140°F) Storage

Data Storage Capabilities (TA430, TA440)

12,700+ samples and 100 test IDs

Logging Interval (TA430, TA440)

1 second to 1 hour



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

UK Tel: +44 149 4 459200 Germany Tel: +49 241 523030 France Tel: +33 491 11 87 64

P/N Z980548 Rev D (A4) ©Z014 TSI Incorporated

Time Constant (TA430, TA440)

User selectable

External Meter Dimensions

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

Meter Weight with Batteries

0.27 kg (0.6 lbs.)

Meter Probe Dimensions

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

Articulating Probe Dimensions

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

Power Requirements

Four AA-size batteries or AC adapter

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

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

Nodes 1A430 and 1A440.

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

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

Calibration Certificate of Air Flow Meter AAST-FLOW-03, Goldert 2021/2/26 深圳市东华计量检测技术有限公司 CALIBRATION CERTIFICATE 证书编号: DH21AA002160001 Certificate No. 委托方名称: Castco Testing Centre Limited Client name 委托方地址: 33, On Kui Street, Fanling, N.T. Add.of Client 计量器具名称: 风速计 Name of Instrument 型号/规格: TA440 Type/Specification 制造单位: AIRFLOW Manufacturer 器具编号: AAST-FLOW-03/TA4401706003 Serial No. 接收日期: 2021 年 Year 02 Month 23 校准日期: Date of calibration Year Month 批准人: 签发日期: 2021 年 02 月 26 日 Approved by Date of issue Year Month 张吉庆 核验员: 张吉庆 该二维码非公众号 Checked by (证书专用章) 校准员: Calibrated by 扫眄查证书信息 (真伪) 计量校准机构备案号: 粤校备2017B010 Register No: 粤校备2017B010 地址:深圳市龙华区大浪街道同胜社区浦华科技园厂房 Add: 1st Floor, Building A1, Puhua Science and Technology Park, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China 电话: 0755-28161768/28162768/28166778 Tel: 0755-28161768/28162768/28166778 传真: 0755-21004376 邮编: 518109 Fax: 0755-21004376 Zip Code: 518109 网址: www.szdhjl.com 电子邮箱: szdhjl@163.com http://www.szdhjl.com E-mail: szdhjl@163.com

DHCT第1页,共3页 page



Certificate No.

DH21AA002160001

证书说明

Certificate Statement

- 1、本校准证书包含的数据和信息仅对本次被校准的计量器具负责。 The calibration certificate contains data and information applies only to the calibrated instrument.
- 2、本公司仅对加盖我司的"证书专用章"的完整证书负责。 The company only Division I stamped "certificate special seal" is responsible for the full certificate.
- 3、未经本公司书面授权,不得部分复印证书。

The certificate shall not be photocopied without the written authorization of the company.

4、本次校准依据的技术文件:

Reference Documents for the Calibration:

JJG(建设)0001-1992 热球式风速仪计量检定规程

JJG(建设)0001-1992 Metrological Verification Regulation of Hot Ball shaped Anemmeter

5、本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

| 设备名称 Equipment Name | 测量范围 Measuring Range | 不确定度/准确度等级 /最大允许误差 Uncertainty/AccuracyClass/ Maximum permissible Error | 设备编号 Equipment No. | 溯源机构/ 证书编号 Traceability to/ Certificate No. | 溯源有效期 Traceability Due Date |
|------------------------|--|--|-----------------------|--|-----------------------------------|
| 补偿式微压计 | (-2500~2500) Pa | E# DE | SM1926 | 上海市计量测试技术研究院 2018E21-20- 2637951001 | 2022-07-28 |
| 皮托管 | (0~30) m/s | | SM326 | 中国计量科学研究院 RGfv2019-0007 | 2024-01-20 |
| 机械式温湿度计 | 温度: (-20~80) ℃; 湿度: (0~ 100) %RH | MPE:温度;±2℃,湿 度:± (5~7)% | 85926 | 深圳市计量质量检测研究院 205605616 | 2021-05-10 |
| 空盒气压表 | (800~1060)hPa | U=0.6hPa, k=2 | 15033115 | 深圳市计量质量检测研究院 204373348 | 2021-08-17 |
| 标准水银温度计 | (0~50) e C | U=0.03℃, k=2 | 2-204 | 深圳市计量质量检测研究院 205502058 | 2022-03-09 |

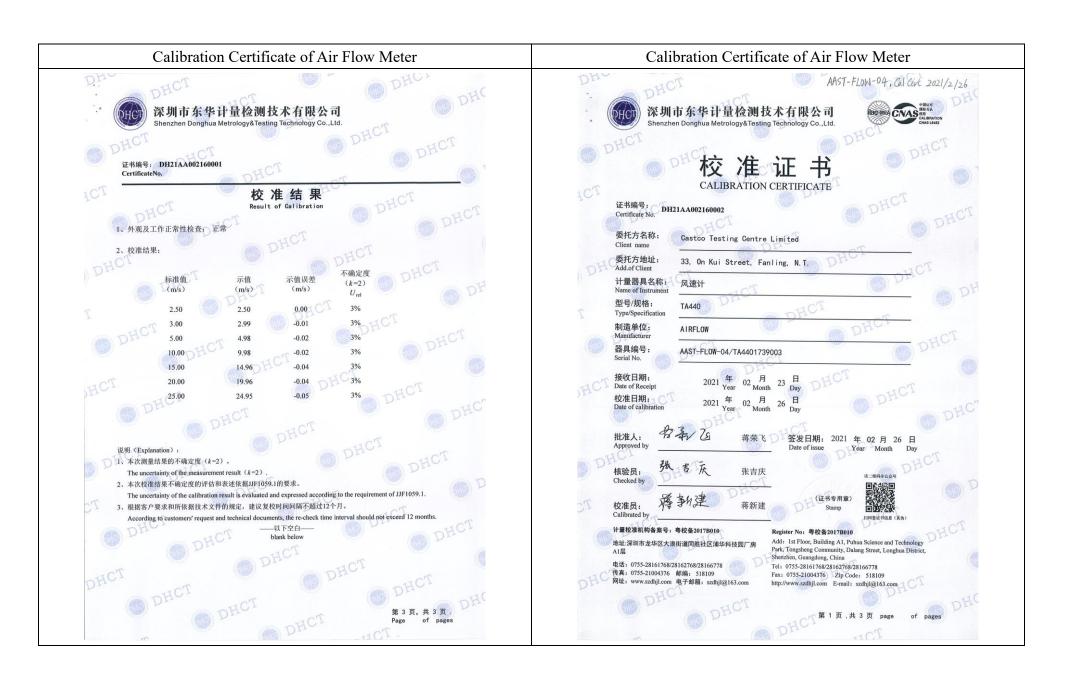
- 6、校准地点: 本公司力学实验室 Operation Location
- 7、环境条件:

Operation Environment

温度 21.7 °C Temperature

相对湿度

1010.0 hPa



Calibration Certificate of Air Flow Meter



深圳市东华计量检测技术有限公司

Shenzhen Donghua Metrology & Testing Technology Co., Ltd.

Certificate No.

DH21AA002160002

Certificate Statement

1、本校准证书包含的数据和信息仅对本次被校准的计量器具负责。

The calibration certificate contains data and information applies only to the calibrated instrument.

2、本公司仅对加盖我司的"证书专用章"的完整证书负责。

The company only Division I stamped "certificate special seal" is responsible for the full certificate.

3、未经本公司书面授权,不得部分复印证书。

The certificate shall not be photocopied without the written authorization of the company.

4、本次校准依据的技术文件:

Reference Documents for the Calibration:

JJG(建设)0001-1992 热球式风速仪计量检定规程

JJG(建设)0001-1992 Metrological Verification Regulation of Hot Ball shaped Anemmeter

5、本次校准所使用的主要计量标准器具

Major standards of measurement used in the calibration:

| 设备名称 Equipment Name | 测量范围 Measuring Range | 不确定度/准确度等级 /最大允许误差 Uncertainty/AccuracyClass/ Maximum permissible Error | 设备编号 Equipment No. | 溯源机构/ 证书编号 Traceability to/ Certificate No. | 溯源有效期 Traceability Due Date |
|------------------------|--|--|-----------------------|--|-----------------------------------|
| 补偿式微压计 | (-2500~2500) Pa | =# DE | SM1926 | 上海市计量测试技术研 究院 2018E21-20- 2637951001 | 2022-07-28 |
| 皮托管 | (0~30) m/s | | SM326 | 中国计量科学研究院 RGfv2019-0007 | 2024-01-20 |
| 机械式温湿度计 | 温度: (-20~80) C: 湿度: (0~ 100) %RH | MPE:温度; ±2℃,湿度± (5~7)% | 85926 | 深圳市计量质量检测研究院 205605616 | 2021-05-10 |
| 空盒气压表 | (800~1060)hPa | U=0.6hPa, k=2 | 15033115 | 深圳市计量质量检测研究院 204373348 | 2021-08-17 |
| 标准水银温度计 | (0~50)°C | U=0.03°C, k=2 | 2-204 | 深圳市计量质量检测研 究院 205502058 | 2022-03-09 |

6、校准地点: 本公司力学实验室 Operation Location

7、环境条件: Operation Environment

温度 21.7 °C Temperature \

1010.0 hPa

深圳市东华计量检测技术有限公司 Shenzhen Donghua Metrology&Testing Technology Co.,Ltd.

证书编号: DH21AA002160002 CertificateNo.

校准结果 Result of Calibration

1、外观及工作正常性检查: 正常

2、校准结果:

| 2- | | | | 1) - |
|-----|--------------|-------------|---------------|-----------------------------------|
| | 标准值 (m/s) | 示值 (m/s) | 示值误差 (m/s) | 不确定度 (k=2) U _{rel} |
| | 2.50 | 2.50 | 0.00 CT | 3% |
| OT | 3.00 | 3.00 | 0.00 | 3% |
| HO. | 5.00 | 4.99 | -0.01 | 3% |
| | 10.00 HO | 9.98 | -0.02 | 3% |
| | 15.00 | 14.96 | -0.04 | 3% |
| | 20.00 | 19.95 | -0.05 | 3% |
| | 25.00 | 24.95 | -0.05 | 3% |
| | | | | |

说明 (Explanation):

1、本次测量结果的不确定度(k=2)。

The uncertainty of the measurement result (k=2).

2、本次校准结果不确定度的评估和表述依据JJF1059.1的要求。

The uncertainty of the calibration result is evaluated and expressed according to the requirement of JJF1059.1.

3、根据客户要求和所依据技术文件的规定,建议复校时间间隔不超过12个月。

According to customers' request and technical documents, the re-check time interval should not exceed 12 months.

| $\label{eq:Appendix K-Noise monitoring results and graphical presentation} Appendix \ K-Noise monitoring results and graphical presentation$ |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |

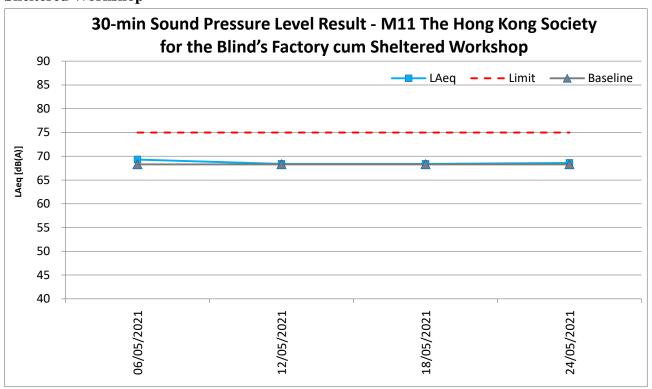
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

| Dete | Temp | XX 41 | Measured Noise Level at M11, dB(A) | | | | | | | T |
|------------|------|---------|------------------------------------|---------|-------|----------|---------------------|-----------|-----------|-------|
| Date | (°C) | Weather | 7 | Time | | Baseline | \mathcal{L}_{Aeq} | L_{A10} | L_{A90} | Limit |
| 06/05/2021 | 28.0 | Sunny | 10:08 | - | 10:38 | 68.3 | 69.3 | 71.9 | 64.2 | 75 |
| 12/05/2021 | 31.1 | Sunny | 14:35 | - | 15:05 | 68.3 | 68.4 | 71.5 | 61.9 | 75 |
| 18/05/2021 | 33.8 | Sunny | 10:40 | - | 11:10 | 68.3 | 68.4 | 69.0 | 67.6 | 75 |
| 24/05/2021 | 29.6 | Cloudy | 14:13 | - | 14:43 | 68.3 | 68.6 | 71.2 | 63.9 | 75 |
| Maximum | | | 69.3 | | | | | | | |
| | | | Minimum | | | 68.4 | | | | |
| | | | | Average | | | | | | |

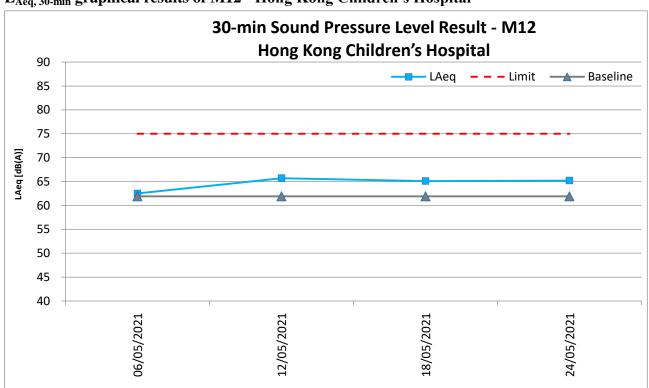
M12 - Hong Kong Children's Hospital

| WITZ - Hong Kong Children's Hospital | | | | | | | | | | | |
|--------------------------------------|--------------|---------|------------------------------------|---------|-------|----------|-----------|-----------|-----------|-------|--|
| | Temp (°C) | Weather | Measured Noise Level at M12, dB(A) | | | | | | | | |
| Date | | | Time | | | Baseline | L_{Aeq} | L_{A10} | L_{A90} | Limit | |
| 06/05/2021 | 28.0 | Sunny | 13:10 | - | 13:40 | 61.9 | 62.5 | 63.9 | 60.8 | 75 | |
| 12/05/2021 | 31.1 | Sunny | 10:40 | - | 11:10 | 61.9 | 65.7 | 67.8 | 62.6 | 75 | |
| 18/05/2021 | 33.8 | Sunny | 14:03 | - | 14:33 | 61.9 | 65.1 | 67.2 | 62.3 | 75 | |
| 24/05/2021 | 29.6 | Cloudy | 11:09 | - | 11:39 | 61.9 | 65.2 | 67.2 | 61.7 | 75 | |
| Maximum | | | | | 65.7 | | | | | | |
| | | | Minimum | | | | 62.5 | | | | |
| | | | | Average | | | | | | | |

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



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



Appendix L – Event and Action Plan for noise

| T4 | Action | | | | |
|-----------------------------|--|---|--|---|--|
| Event | ET | IEC | Supervisor / ER | Contractor | |
| Action Level being exceeded | Notify Supervisor / ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, Supervisor / ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is | results submitted by the ET; | 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.) | Submit noise mitigation proposal to IEC and Supervisor / ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified.) | |
| 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 | Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification; Implement the agreed proposal; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated. (The above actions should be | |

| Event | Action | | | | |
|-------|-------------------------------|-----|-----------------------------------|-----------------------------|--|
| | 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 Action Plan for Landscape and Visual Impact |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |

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

Appendix N – Waste Flow Table



Appendix F - Monthly Summary Waste Flow Table

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

Monthly Summary Waste Flow Table for May 2021

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

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

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

-) The waste flow table shall also include C&D materials to be imported for use at the Site
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m³ (ER Part 8 Clause 8.7.5(d)(ii) refers)
- (5) Assume inert C&D materials density and non-inert C&D materials are 1.9 m³/ton and 1.5 m³/ton

Appendix O – Environmental Mitigation Implementation Schedule (EMIS)

| EIA for KTD Development 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 | ٨ |
| | | being loaded into the vehicle. | |
| | | - Any vehicle with an open load carrying area should have | ^ |
| | | properly fitted side and tail boards. | |
| | | - Material having the potential to create dust should not be loaded | ^ |
| | | from a level higher than the side and tail boards and should be | |
| | | dampened and covered by a clean tarpaulin. | |
| | | - The tarpaulin should be properly secured and should extent at | ^ |
| | | least 300 mm over the edges of the sides and tailboards. The | |
| | | material should also be dampened if necessary, before | |
| | | transportation. | |
| | | - The vehicles should be restricted to maximum speed of 10 km | ^ |
| | | per hour and confined haulage and delivery vehicle to | |
| | | designated roadways insider the site. On- site unpaved roads | |
| | | should be compacted and kept free of lose materials. | |
| | | - Vehicle washing facilities should be provided at every vehicle | ^ |
| | | 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 | ٨ |
| | | entirely by impervious sheeting placed in an area sheltered on | |
| | | the top and the three sides. | |
| | | - Every vehicle should be washed to remove any dusty materials | 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 | ^ |
| | | possible. | |
| | | - Machines and plant (such as trucks) that may be in intermittent | ٨ |
| | | use should be shut down between works periods or should be | |
| | | throttled down to a minimum. | |
| | | - Plant known to emit noise strongly in one direction should, | ٨ |
| | | wherever possible, be orientated so that the noise is directed | |
| | | away from the nearby NSRs. | |
| | | - Material stockpiles and other structures should be effectively | ^ |
| | | utilized, wherever practicable, in screening noise from on-site | |
| | | construction activities. | |
| | | - Scheduling of Construction Works during School | N/A |
| | | Examination Period | |

| Implementatio | n 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. | ۸ |

| EIA for KTD Development | EIA for KTD - Roads D3A | E | nvironmental Protection Measures / Mitigation Measures | Status |
|----------------------------|-------------------------------|-----|--|--------|
| Ref. | & D4A Ref. S5.8 | | - Surface run-off from construction sites should be discharge | ^ |
| | 53.6 | | Č | ,, |
| | | | into storm drains via adequately designed sand/silt removal | |
| | 05.0 | | facilities such as sand traps, silt traps and sedimentation basins. | ٨ |
| | 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 | |
| | | 1 | formation works and earthworks. | |
| | S5.8 | - | Silt removal facilities, channels and manholes should be | ^ |
| | | 1 | maintained and the deposited silt and grit should be removed | |
| | | 1 | regularly, at the onset of and after each rainstorm to prevent | |
| | |] | local flooding. Any practical options for the diversion and | |
| | | 1 | re-alignment of drainage should comply with both engineering | |
| | | ; | and environmental requirements in order to provide adequate | |
| | | 1 | 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 | - F | 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 | |
| | | 1 | 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, | ^ |
| | 55.0 | | 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 | ٨ |
| | 33.0 | | | |
| | | | adequately covered and temporarily sealed so as to prevent silt, | |
| | | | construction materials or debris from getting into the drainage | |
| | | | system, and to prevent storm run-off from getting into foul | |
| | | | sewers. Discharge of surface run-off into foul sewers must | |
| | | ; | always be prevented in order not to unduly overload the foul | |

| Implementatio | on Schedule for V | Water Quality Measures | |
|------------------------------------|------------------------------------|---|--------|
| EIA for KTD Development Ref. | EIA for KTD - Roads D3A & D4A Ref. | Environmental Protection Measures / Mitigation Measures | Status |
| | | 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 ³ capacity, are | |
| | | recommended as a general mitigation measure which can be used | |
| | | for settling surface runoff prior to disposal. The system capacity is | |
| | | flexible and able to handle multiple inputs from a variety of sources | |

| | | Water Quality Measures | T |
|------------------------------------|------------------------------------|---|--------|
| EIA for KTD Development Ref. | EIA for KTD - Roads D3A & D4A Ref. | Environmental Protection Measures / Mitigation Measures | Status |
| | | and particularly suited to applications where the influent is pumped. | |
| S3.4 | | Open stockpiles of construction materials (for examples, aggregates, | ^ |
| | | sand and fill material) of more than 50 m ³ should be covered with | |
| | | tarpaulin or similar fabric during rainstorms. Measures should be | |
| | | taken to prevent the washing away of construction materials, soil, | |
| | | silt or debris into any drainage system. | |
| S3.4 | | Manholes (including newly constructed ones) should always be | ^ |
| | | adequately covered and temporarily sealed so as to prevent silt, | |
| | | construction materials or debris being washed into the drainage | |
| | | system and storm runoff being directed into foul sewers. | |
| S3.4 | | Precautions to be taken at any time of year when rainstorms are | ^ |
| | | likely, actions to be taken when a rainstorm is imminent or forecast, | |
| | | and actions to be taken during or after rainstorms are summarised in | |
| | | Appendix A2 of ProPECC PN 1/94. Particular attention should be | |
| | | paid to the control of silty surface runoff during storm events. | |
| S3.4 | | Oil interceptors should be provided in the drainage system and | NA |
| | | regularly cleaned to prevent the release of oils and grease into the | |
| | | storm water drainage system after accidental spillages. The | |
| | | interceptor should have a bypass to prevent flushing during periods | |
| | | of heavy rain. | |
| S3.4 | S5.8 | Wheel Washing Water | ^ |
| | | All vehicles and plant should be cleaned before leaving a | |
| | | construction site to ensure no earth, mud, debris and the like is | |
| | | deposited by them on roads. An adequately designed and located | |
| | | wheel washing bay should be provided at every site exit, and | |
| | | wash-water should have sand and silt settled out and removed at | |
| | | least on a weekly basis to ensure the continued efficiency of the | |
| | | process. The section of access road leading to, and exiting from, the | |
| | | wheel-wash bay to the public road should be paved with sufficient | |
| | | backfall toward the wheel-wash bay to prevent vehicle tracking of | |
| | | soil and silty water to public roads and drains. | |
| S3.4 | | <u>Drainage</u> | ٨ |
| | | It is recommended that on-site drainage system should be installed | |
| | | prior to the commencement of other construction activities. | |
| | | Sediment traps should be installed in order to minimise the sediment | |
| | | loading of the effluent prior to discharge into foul sewers. There | |
| | | should be no direct discharge of effluent from the site into the sea. | |
| S3.4 | | All temporary and permanent drainage pipes and culverts provided | ^ |

| EIA for KTD Development Ref. | EIA for KTD - Roads D3A & D4A Ref. | Environmental Protection Measures / Mitigation Measures | 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 | ^ |
| | | 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 | ^ |
| | | 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 | ^ |
| | | 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 | ^ |
| | | In order to maintain water quality in acceptable conditions with | |
| | | regard to aesthetic quality, contractors should be required, under | |
| | | conditions of contract, to ensure that site management is optimised | |

| EIA for KTD Development Ref. | EIA for KTD - Roads D3A & D4A Ref. | Environmental Protection Measures / Mitigation Measures | Status |
|------------------------------------|------------------------------------|---|--------|
| | | and that disposal of any solid materials, litter or wastes to marine | |
| | | waters does not occur. | |
| | S5.8 | Boring and Drilling Water | ^ |
| | | Water used in ground boring and drilling for site investigation or | |
| | | rock / soil anchoring should as far as practicable be re-circulated | |
| | | after sedimentation. When there is a need for final disposal, the | |
| | | wastewater should be discharged into storm drains via silt removal | |
| | | facilities. | |
| | S5.8 | Acid Cleaning, Etching and Pickling Wastewater | NA |
| | | Acidic wastewater generated from acid cleaning, etching, pickling | |
| | | and similar activities should be neutralized to within the pH range | |
| | | of 6 to 10 before discharging into | |
| | | foul sewers. | |
| | S5.8 | Effluent Discharge | ^ |
| | | There is a need to apply to EPD for a discharge licence for discharge | |
| | | of effluent from the construction site under the WPCO. The | |
| | | discharge quality must meet the requirements specified in the | |
| | | discharge licence. All the runoff and wastewater generated from the | |
| | | works areas should be treated so that it satisfies all the standards | |
| | | listed in the TM-DSS. Minimum distance of 100 m should be | |
| | | maintained between the discharge points of construction site effluent | |
| | | and the existing seawater intakes and the planned WSR mentioned in | |
| | | S5.3.1 as appropriate. The beneficial uses of the treated effluent for | |
| | | other on-site activities such as dust suppression, wheel washing and | |
| | | general cleaning etc., can minimise water consumption and reduce | |
| | | the effluent discharge volume. If monitoring of the treated | |
| | | effluent quality from the works areas is required during the | |
| | | construction phase of the Project, the monitoring should be carried | |
| | | out in accordance with the relevant WPCO licence which is under | |
| | | the ambit of regional office (RO) of EPD. | |
| | 05.0 | | ^ |
| | S5.8 | Accidental Spillage Contractor must register as a chemical wester producer if chemical | , . |
| | | 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 | |

| | | 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. | | |

| Implementation | Implementation Schedule for Waste Management Measures | | | | |
|------------------------------------|---|--|--------|--|--|
| EIA for KTD Development Ref. | EIA for KTD - Roads D3A & D4A Ref. | Environmental Protection Measures / Mitigation Measures | Status | | |
| S3.5 | | Good Site Practices | | | |
| | | It is not anticipated that adverse waste management related impacts | | | |
| | | would arise, provided that good site practices are adhered to. | | | |
| | | Recommendations for good site practices during construction | | | |
| | | activities include: | | | |
| S3.5 | | - Nomination of an approved person, such as a site manager, to | ٨ | | |
| | | be responsible for good site practices, arrangements for | | | |
| | | collection and effective disposal to an appropriate facility, of all | | | |
| | | wastes generated at the site. | | | |
| | S6.7 | - Prepare a Waste Management Plan, which becomes a part of the | ٨ | | |
| | | Environmental Management Plan, in accordance with the | | | |
| | | requirements stipulated in ETWB TC(W) No. 19/2005, | | | |
| | | approved by the Engineer/Supervising Officer of the Project | | | |
| | | based on current practices on construction sites. | | | |
| S3.5 | S6.7 | - Training of site personnel in proper waste management and | ٨ | | |
| | | chemical waste handling procedures. | | | |

| EIA for KTD Development Ref. EIA for KTD - Roads D3A & D4A Ref. S3.5 S6.7 - | | A | | |
|--|------|--|---|--|
| | | - 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, | ٨ | |
| | | 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 | ٨ | |
| | | 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 | | |
| | | recover recyclable portions such as metals. | | |
| S3.5 | S6.7 | - Segregation and storage of different types of waste in different | ^ | |
| | | containers, skips or stockpiles to enhance reuse or recycling of | | |
| | | materials and their proper disposal. | | |
| S3.5 | S6.7 | - Encourage collection of aluminium cans, PET bottles and paper | ^ | |
| | | by providing separate labelled bins to enable these wastes to be | | |
| | | segregated from other general refuse generated by the work | | |
| | | force. | | |
| S3.5 | | - Any unused chemicals or those with remaining functional | ^ | |
| | | capacity should be recycled. | | |
| S3.5 | S6.7 | - Proper storage and site practices to minimise the potential for | ^ | |
| | | damage or contamination of construction materials. | | |
| S3.5 | | Construction and Demolition Materials | | |
| | | Mitigation measures and good site practices should be incorporated | | |
| | | in the contract document to control potential environmental impact | | |
| | | from handling and transportation of C&D material. The mitigation | | |
| | | measures include: | | |
| S3.5 | | - Where it is unavoidable to have transient stockpiles of C&D | ^ | |
| | | material within the Project work site pending collection for | | |

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

| Implementatio | Implementation Schedule for Waste Management Measures | | | | |
|------------------------------------|---|--|--------|--|--|
| EIA for KTD Development Ref. | EIA for KTD - Roads D3A & D4A Ref. | Environmental Protection Measures / Mitigation Measures | Status | | |
| | | of waste. | | | |
| S3.5 | | Chemical Waste | ٨ | | |
| | | After use, chemical wastes (for example, cleaning fluids, solvents, | | | |
| | | lubrication oil and fuel) should be handled according to the Code of | | | |
| | | Practice on the Packaging, Labelling and Storage of Chemical | | | |
| | | Wastes. Spent chemicals should be collected by a licensed collector | | | |
| | | for disposal at the CWTF or other licensed facility, in accordance | | | |
| | | with the Waste Disposal (Chemical Waste) (General) Regulation. | | | |
| | S6.7 | Separation of chemical wastes for special handling and appropriate | ^ | | |
| | | treatment. | | | |
| S3.5 | | General Refuse | ۸ | | |
| | | General refuse should be stored in enclosed bins or compaction units | | | |
| | | separate from C&D material. A licensed waste collector should be | | | |
| | | employed by the contractor to remove general refuse from the site, | | | |
| | | separately from C&D material. Effective collection and storage | | | |
| | | methods (including enclosed and covered area) of site wastes would | | | |
| | | be required to prevent waste materials from being blown around by | | | |
| | | wind, wastewater discharge by flushing or leaching into the marine | | | |
| | | environment, or creating odour nuisance or pest and vermin | | | |
| | | problem. | | | |

| Implementatio | Implementation Schedule for Landscape and Visual Measures | | | | |
|------------------------------------|---|---|--------|--|--|
| EIA for KTD Development Ref. | EIA for KTD - Roads D3A & D4A Ref. | Environmental Protection Measures / Mitigation Measures | Status | | |
| S3.8.12 | | All existing trees should be carefully protected during construction. | ٨ | | |
| S3.8.12 | | Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work. | NA | | |
| S3.8.12 | | Control of night-time lighting. | ٨ | | |
| S3.8.12 | | Erection of decorative screen hoarding. | ٨ | | |
| | S7.9 | Construction Site Control - CM1 - Minimized construction area and contractor's temporary works areas. | ^ | | |
| | | - CM2- Control of night-time lighting and glare by hooding all lights. | ^ | | |
| <u> </u> | | - CM3 - Erection of decorative mesh screens or construction | ^ | | |

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

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

Mitigation Measures undertaken by the Contractor for site inspections





| Date: | 06 May 2021 | Date: | 12 May 2021 |
|----------------------|-----------------------|----------------------|---------------------------|
| Mitigation Measures: | Vehicle washing basin | Mitigation Measures: | Containers were labelled. |





| Date: | 20 May 2021 | Date: | 20 May 2021 |
|----------------------|---|----------------------|---------------------|
| Mitigation Measures: | Watering of the work site with active dust emitting activities by automatic water spray system. | Mitigation Measures: | Quiet PME was used. |

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

Reporting Month: May 2021

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

Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions

upto reporting month

| Contract No. | Record of Complaint | Record of Warning | Notification of Summons and Successful Prosecutions |
|--------------|---------------------|-------------------|--|
| ED/2018/01 | 1 | 0 | 0 |

| | ED/2018/01 | | | CI O (F) |
|---|---|--|---|--|
| Complaint Ref. No. | Date of Complaint | Description of Complaint | Investigation / Recommendations / Actions | Close-Out Date / Status |
| refo the on 202 a cor 182 (Ca 3-6 | 21 October 20 regarding pubic mplaint via 23 hotline ase no. 6518939602) 20 October | proper time. 2. Stockpile was not covered properly. | Investigation Based on the information provided by the Contractor on 22 October 2020, the water sprinklers system was sprayed every 15 minutes with 70 seconds interval automatically. For the area that water sprinklers system was not covered, manual water spraying was provided. Dump trucks were covered with mechanical cover after loading the materials. The stockpile area was covered by the tarpaulin during night time. Based on the monitoring results on 16 October 2020, the 1-hour and 24-hour TSP results were below the Action Levels and Limit Levels. Regular site inspection was conducted by ET on 22 October 2020, no adverse observation against the dust impact was recorded. Recommendations To minimize the impact for air quality, mitigation measures should be enhanced specially in dry seasons are recommended: Increase the frequency and duration for automatic water spraying system. Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted by water trucks or manually in regular basis. Ensure stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting at all time except during working process. | - Closed-out on 5 No 2020 - No further complaint was received. |

| Complaint Log for ED/2018/01 | | | | | | | |
|------------------------------|-------------------|--------------------------|---|----------------------------|--|--|--|
| Complaint Ref. No. | Date of Complaint | Description of Complaint | Investigation / Recommendations / Actions | Close-Out Date / Status | | | |
| Ref. No. | Complaint | | Action taken As per the Contractor, the water sprinkler are now adjusted to start at 8:00am and end at 6:00pm for Monday to Saturday while from 8:00am to 5:00pm on Sunday. Water spraying are set with 5-minute time interval with duration 30-60 seconds. | Status | | | |
| | | | time interval with duration 50 00 seconds. | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |