





#### Contract No. 21/WSD/21

## **Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns**

# **Monthly Environmental and Audit Report** April 2023

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#### Agreement No. DHSR/IEC/001

Consultancy Service of Independent Environmental Checker (IEC) for Relocation of Diamond Hill Fresh Water and Salt

Water Service Reservoirs to Caverns under Contract No. 21/WSD/21

Monthly EM&A Report for April 2023

Dear Sir,

Pursuant to Condition 3.4 of Environmental Permit (EP) No. EP-602/2021, please note the Monthly Environmental and Audit Report April 2023, dated 15 May 2023 submitted under the EP, certified by the Environmental Team Leader on 15 May 2023, had been reviewed and is hereby verified.

Should you have any query, please feel free to contact the undersigned at 3756 9590 or <a href="mailto:ivanting@umwelt.consulting">ivanting@umwelt.consulting</a> .

Your faithfully,

For and on behalf of:

**Umwelt Consulting Limited** 

Ting Po Chung Ivan

Independent Environmental Checker





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#### **EXECUTIVE SUMMARY**

This is the 1<sup>st</sup> Monthly Environment Monitoring and Audit (EM&A) Report for Relocation of Diamon Hill Fresh Water and Salt Water Service Reservoirs to Caverns (the Project). This report was prepared by Acuity Sustainability Consulting Limited under Contract No. 21/WSD/21 (hereafter called "the Contract"). This report documents the findings of EM&A works during the reporting period from 31 March to 30 April 2023.

Key Construction Works in the Reporting Period

A summary of construction activities undertaken during the reporting period is presented below:

#### • Site formation

Environmental Monitoring and Audit Programme

The monthly EM&A programme was undertaken by the Environmental Team in accordance with the EM&A Manual. A summary of the monitoring and audit activities during the reporting period is presented below:

Table I Summary of EM&A Activities in the Reporting Period

| EM&A Activities                      | Date                            |
|--------------------------------------|---------------------------------|
| 1-hour TSP Monitoring                | 6, 12, 18, 24 and 29 April 2023 |
| Construction Noise Monitoring        | 6, 12, 18 and 24 April 2023     |
| Weekly Environmental Site Inspection | 6, 14, 19 and 28 April 2023     |

Breaches of Action and Limit Levels

A summary of the environmental monitoring exceedance of the reporting period is tabulated in **Table II**.

Table II Summary of Exceedance in the Reporting Period

| Environmental<br>Monitoring | Parameter              | pro<br>rela | f non-<br>ject<br>ited<br>lances | Total no. of<br>non-project<br>related<br>exceedances | No.<br>exceed<br>relate<br>the pr | ances<br>ed to | Total no. of exceedances related to the project |
|-----------------------------|------------------------|-------------|----------------------------------|---|-----------------------------------|----------------|---|
| Air Quality                 | 1-hour<br>TSP          | 0           | 0                                | 0   | 0                                 | 0              | 0   |
| Noise                       | $L_{eq(30	ext{-min})}$ | 0           | 0                                | 0   | 0                                 | 0              | 0   |

#### **Air Quality**

No action or limit levels exceedance was recorded for 1-hour TSP monitoring during the reporting period.

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#### Construction Noise

No action or limit levels exceedance was recorded for construction noise monitoring during the reporting period.

#### Complaint Log

No environmental complaint was received in the reporting period.

#### Notification of Summons and Successful Prosecutions

No notification of summons or successful prosecutions was received in the reporting period.

#### Reporting Change

There was no reporting change in the reporting period.

#### Future Key Issues

Key issues to be considered in the next three months included:

- Site formation
- Pipe piling
- Sheet piling
- Tree transplanting
- Demolition of pumping station
- Hoard erection

Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water pollution control, waste management and landscape and visual.





#### 1. INTRODUCTION

#### 1.1 Project Background

- 1.1.1 The relocated Diamond Hill Fresh Water and Salt Water Service Reservoirs (DHSRs) will be constructed in a series of caverns linked by access tunnels and adits. The relocated Diamond Hill Fresh Water Service Reservoirs (DHFWSR) and Diamond Hill Salt Water Service Reservoirs (DHSWSR) will be compartmented while the existing Diamond Hill Pumping Station (DHPS) will be split into two (2) pump houses for fresh and salt water supply when relocated.
- 1.1.2 Ancillary facilities to be constructed near the tunnel portal may include transformer room, switch room, emergency generator room, control room, ventilation building, and pumping station control room, which will be constructed in an above-ground building outside the tunnel.
- 1.1.3 The scope of the Project comprises the following:
  - a) Construction of the relocated DHSRs and associated pumping stations and water main laying works;
  - b) Construction of tunnels, adits, ventilation system and caverns for accommodating the relocated DHSRs and the associated facilities;
  - c) Terminating the operation of the existing DHSRs and the associated facilities; and
  - d) All other associated works that are incidental to and necessary for the completion of the Project.
- 1.1.4 The major construction activities of the Project include earthworks, drilling and blasting, construction of concrete structures, handling and transportation of excavated materials, water mains laying, installation of electrical and mechanical (E&M) equipment and material transportation. The operation of the existing DHSRs and the associated facilities will be terminated after the completion of the testing and commissioning of the relocated DHSRs. Under the Project, the existing DHSRs and associated facilities will be retained after termination of the operation. The subsequent demolition works will be carried out by other government departments/ project proponents.
- 1.1.5 The Project construction was commenced on 31 March 2023 and the completion date for the construction works would be on 12 April 2027.
- 1.1.6 The Project is a Designated Project under Item Q.2, Part I of Schedule 2 of the Environmental Impact Assessment Ordinance, "Underground Rock Caverns", which requires an environmental permit from Environmental Protection Department for its construction and operation.
- 1.1.7 Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection Department (EPD) granted the Environmental Permits (EP-602/2021) to the Water Supplies Department (WSD) for the Project.





- 1.1.8 Acuity Sustainability Consulting Limited (ASCL) is commissioned by Chun Wo Sinohydro Joint Venture to undertake the role of Environmental Team under the Environmental Permit (EP) EP-602/2021, and to carry out the EM&A programme in fulfilment of the EM&A Manual, and other requirements stipulated in the associated EIA Report.
- 1.1.9 This is the 1<sup>st</sup> Monthly EM&A Report summarizing the key findings of the construction phase EM&A programme from 31 March to 30 April 2023 (the reporting period) and is submitted to fulfil the requirements in Conditions 3.4 of EP-602/2021 and section 13.3 of the EM&A Manual of the Project.

#### 1.2 Construction Works Programme

- 1.2.1 The construction works of the Project was commenced on 31 March 2023. The construction works programme, and the locations of construction works of the Project are shown in **Appendix A** and **Figure 1.1**, respectively. A summary of construction activities undertaken during the reporting period is presented below:
  - Site formation

#### 1.3 Project Organization

- 1.3.1 Different parties with different levels of involvement in the Project organization include:
  - Project Proponent: Water Supplies Department (WSD)
  - Supervisor/Engineer's Representative (ER): Binnies Hong Kong Limited
  - Contractor: Chun Wo Sinohydro Joint Venture
  - Environmental Team (ET): Acuity Sustainability Consulting Limited
  - Independent Environmental Checker (IEC): Umwelt Consulting Limited
- 1.3.2 The key personnel contact names and telephone number are presented in **Appendix B**.

#### 1.4 License, Notification and Permits

1.4.1 A summary of the relevant permit, licences, and/ or notifications on environmental protection for this Project are presented in **Table 1.1**.





**Table 1.1** Status of Environmental License, Notifications and Permits

| Permit / License No.   | Valid   | Status     |                   |  |  |
|--|---|------------|-------------------|--|--|
| Permit / License No.   | From  | Expired On | Status            |  |  |
| Environmental Permit   |   |            |                   |  |  |
| EP-602/2021  | 14/12/2021  | -          | Valid             |  |  |
| Notification Pursuant to Section 3(1)<br>Dust) Regulation          | Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust) Regulation |            |                   |  |  |
| Ref. No.: 487301   | 09/12/2022  | -          | Valid             |  |  |
| Billing Account for Disposal of Construction Waste                 |   |            |                   |  |  |
| 7046085  | 04/01/2023  | -          | Valid             |  |  |
| Registration of Chemical Waste Producer                            |   |            |                   |  |  |
| WPN 5213-282-C4760-0   | 30/12/2022  | -          | Valid             |  |  |
| Effluent Discharge License under Water Pollution Control Ordinance |   |            |                   |  |  |
| Ref No. 490431   | -   | -          | Under application |  |  |

1.4.2 The submission status of the EP and the implementation status of the mitigation measures stated in the EP had been reviewed, all submission were submitted/deposited to the Director of Environmental Protection (DEP) on schedule, no non-compliance of EP conditions was recorded during the reporting period. The summary of submission status under Environmental Permit EP-602/2021 are summarized in **Table 1.2**.

Table 1.2 Summary of Status of Submission under EP-602/2021

| Table 1.2 Summary of Status of Submission under E1 -002/2021 |   |  |  |  |
|--|---|--|--|--|
| EP<br>Condition  | Title of Submission                           | Submission Status  |  |  |
| 1.11   | Commencement Date of Construction             | Notified the DEP on 22 Feb 2023  |  |  |
| 2.9  | Management Organization(s)                    | Informed the DEP on 20 Feb 2023  |  |  |
| 2.10   | Environmental Permit (EP) Submission Schedule | 22 Feb 2022 (1st Submission)   |  |  |
| 2.11   | Construction Works Schedule and Location Plan | 28 Feb 2023 (Deposited)  |  |  |
| 2.12   | Construction Noise Management<br>Plan (CNMP)  | 28 Feb 2023 (Deposited)<br>(Comment were issued by the<br>EPD on 8 Mar 2023 and the<br>CNMP is being revised.) |  |  |
| 2.13   | Waste Management Plan                         | 28 Feb 2023 (Deposited)  |  |  |





| EP<br>Condition | Title of Submission                  | Submission Status   |
|-----------------|--------------------------------------|---|
| 2.14            | Landscape and Visual Mitigation Plan | 28 Feb 2022 (1st Submission)  |
| 3.3             | Baseline Monitoring Report           | 17 Mar 2023 (1st Submission)<br>27 Apr 2023 (2nd Submission)                |
| 3.4             | Monthly EM&A Report (Apr 2023)       | To be submitted within 10 working days after the end of the reporting month |
| 4.2             | Dedicated Internet Website           | Under preparation   |

- 1.4.3 Following the EPD's comments on the Baseline Monitoring Report (Ref. No. BMR-3.1, dated 17 March 2023), updating of air quality and noise monitoring locations were proposed, including cancellation of noise monitoring station at Tower 1, Meridian Hill (NM-1), resumption of air quality and noise monitoring stations at Block 6, Tsui Chuk Garden (i.e. DM-4 and NM-4) and proposal of new noise monitoring locations at Wo Tin House, Shatin Pass Estate (NM-5) and Sheung Fung Street Customs Staff Quarter (NM-6). The proposal had been submitted to the EPD on 17 April 2023. Comment from the EPD is pending.
- 1.4.4 The Baseline Monitoring Report would be further updated to include all the baseline monitoring results, including additional baseline monitoring data of DM-4, NM-4, NM-5 and NM-6.

### 1.5 Brief Summary of EM&A Requirements

#### Air Quality

- 1.5.1 In accordance with the EM&A Manual, the ET shall carry out impact monitoring during construction phase of the project. For 1-hour Total Suspended Particulates (TSP) monitoring, the sampling frequency of at least three times every six days should be undertaken when the highest dust impact occurs.
- 1.5.2 Action and Limit Levels for the 1-hour TSP monitoring works are discussed in **Section 2.4**. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.
- 1.5.3 The air quality mitigation measures detailed in the EM&A Manual were recommended to be implemented during the construction phase. The implementation statuses of these measures are presented in **Appendix D**.

#### Noise Monitoring

1.5.4 Construction noise monitoring should be carried out at the designated monitoring stations directly affected by the construction works once every week after the commencement of construction. During construction works, one set of  $L_{eq(30-min)}$  measurement at each station between 0700 and 1900 hours on normal weekdays





shall be taken. If construction works are extended to include works during the period between 1900 and 0700 hours, additional weekly impact monitoring shall be carried out during evening and night-time works.

- 1.5.5 Action and Limit Levels for the noise monitoring are discussed in **Section 3.5**. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.
- 1.5.6 The noise mitigation measures detailed in the EM&A Manual are recommended to be implemented during the construction phase. The implementation statuses of these measures are presented in **Appendix D**.

#### Environmental Requirements in Contract Documents

1.5.7 According to *Particular Specification (PS)*, the Contractor shall undertake environmental protection measures to reduce the environmental impacts arising from the execution of the works. The Contractor shall also observe and comply with relevant environmental protection and pollution control ordinances. The Contractor shall design, construct, operate and maintain pollution control measures to ensure compliance with the contract provisions as well as the environmental ordinances and their regulations.

#### 1.5.8 The Contractor shall also:

- Implement air pollution and noise abatement practices as specified in *PS*;
- Minimise generation of wastewater from the Site;
- On-site sorting of Construction and Demolition (C&D) Materials;
- Establish a mechanism to record the quantities of C&D materials generated each month, using the monthly summary "Waste Flow Table";
- Control the use of timbers:
- Implement a trip ticket system (TTS) for tracking the removal of C&D materials from the Site to the disposal grounds;
- Prepare an Environmental Management Plan (EMP) in accordance with GS Section 25 and *PS* for implementation on the Site to reduce environmental nuisance and C&D materials arising from Works, throughout the construction period;
- Arrange weekly environmental walk to inspect the Site, checking that the
  environmental performance of the Site is satisfactory and in compliance with
  the requirements under the contract and EMP; and
- Carry out site specific induction training about environmental management as well as safety for all staffs and workers, and provide toolbox talks for workers on environmental nuisance abatement and waste management.





#### 2. AIR QUALITY MONITORING

#### 2.1 Monitoring Locations

2.1.1 The air quality monitoring locations for impact monitoring during the reporting period are listed in **Table 2.1** and presented in **Figure 2.1**.

**Table 2.1** Air Quality Monitoring Stations for Construction Phase

| ID    | Degamintion   | Coordinates |         |
|-------|---|-------------|---------|
| ID    | Description   | Northing    | Easting |
| DM-1  | Tennis Court near Tin Ma Court                        | 822705      | 837047  |
| DM-2  | Chun Sing House, Tin Ma Court                         | 822673      | 837143  |
| DM-3  | Grace Methodist Church Kindergarten                   | 822782      | 837227  |
| DM-4a | Road pavement near Wang King<br>House, Tin Wang Court | 822854      | 837340  |

Notes:

The air quality monitoring station proposed in the EM&A Manual (i.e., DM-4) was not available for baseline and impact monitoring in the reporting period. Therefore, impact monitoring was conducted at DM-4a as an alternative air quality monitoring station which was agreed by the ER, IEC and EPD.

#### 2.2 Air Quality Monitoring Parameter, Frequency and Duration

2.2.1 **Table 2.2** summarized the monitoring parameter, duration, and frequency of impact air quality monitoring.

Table 2.2 Impact Air Quality Monitoring Parameter, Duration and Frequency

| Parameter  | Frequency            | Duration                          |
|------------|----------------------|-----------------------------------|
| 1-hour TSP | 3 times every 6 days | Throughout the construction phase |

#### 2.3 Monitoring Equipment and Methodology and QA/QC Procedure

Proposal of Using Portable Direct Reading Dust Meter

- 2.3.1 Direct reading dust meters were used for measuring 1-hour TSP levels during the impact air quality monitoring. According to Section 4.4.1 of the EM&A Manual, the proposed use of direct reading dust meters was submitted to and agreed by the IEC.
- 2.3.2 Sufficient number of monitoring instruments were prepared by the ET for carrying out the impact monitoring. All equipment and associated instrumentation were clearly labelled.
- 2.3.3 Wind data were collected from the records of Hong Kong Observatory Kai Tak Wind Station (22.30966N, 114.21336E), which is located at the south-eastern side of runway of the former Kai Tak Airport about 4.5 km south-east from the project site.





2.3.4 Equipment used in the impact air quality monitoring programme is summarised in **Table 2.3.** Calibration certificates for the impact air quality monitoring equipment are attached in **Appendix E**.

**Table 2.3** Impact Air Quality Monitoring Equipment

| Equipment                 | Brand and Model | Serial No.   | Calibration Due Date |
|---------------------------|-----------------|--------------|----------------------|
| Direct Reading Dust Meter | Sibata LD-5R    | 851820       | 15/10/2023           |
|                           | Sibata LD-3K    | 882109       | 15/10/2023           |
|                           | PC-3A(E)        | JC-220710221 | 08/10/2023           |

#### Maintenance and Calibration

- 2.3.5 Direct reading dust meters have been calibrated against high volume samplers (HVSs) annually. A 2-day, three 3-hour measurement results per day from direct reading dust meters were taken to compare with the sampling results from the HVSs. The correlation between the direct reading dust meters and the HVSs were then concluded. By accounting for the correlation factor, the direct reading dust meters are considered to achieve comparable results as that of the HVSs.
- 2.3.6 The 1-hour TSP measurement follows the instruction provided in the manufacturer's manual. Before initiating a measurement, zeroing the portable dust meter was carried out to ensure the accuracy of each measurement.

#### 2.4 Action and Limit Levels

2.4.1 The action and limit levels were established in accordance with the EM&A Manual. **Table 2.4** presents the action and limits levels for 1-hour TSP monitoring. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.

Table 2.4 Action and Limit Levels for 1-hour TSP

| Monitoring Station Action Level (μg/n |       | Limit Level (µg/m³) |
|---------------------------------------|-------|---------------------|
| DM-1                                  | 300.1 |                     |
| DM-2                                  | 289.0 | 500                 |
| DM-3                                  | 289.7 | 500                 |
| DM-4a                                 | 291.6 |                     |

#### 2.5 Results and Observation

- 2.5.1 The impact air quality monitoring was conducted on 6, 12, 18, 24 and 29 April 2023. The impact air quality monitoring schedule for the reporting period is shown in **Appendix F**.
- 2.5.2 The monitoring results and graphical presentation of impact air quality monitoring are shown in **Appendix G**. No action or limit levels exceedance was recorded in the reporting period.





**Table 2.5 Summary of Impact 1-hour TSP Monitoring Results** 

| Monitoring | TSP C   | Concentration | n, μg/m³ | Action | Limit Level |  |
|------------|---------|---------------|----------|--------|-------------|--|
| Station    | Average | Minimum       | Maximum  | Level  | Limit Level |  |
| DM-1       | 86      | 75            | 93       | 300.1  |             |  |
| DM-2       | 74      | 62            | 90       | 289.0  | 500         |  |
| DM-3       | 63      | 54            | 72       | 289.7  | 500         |  |
| DM-4a      | 73      | 64            | 84       | 291.6  |             |  |

2.5.3 During the impact air quality monitoring, the major dust sources at each monitoring stations were summarized in **Table 2.6**.

Table 2.6 Influencing Factors at / near Air Quality Monitoring Stations

| <b>Monitoring Stations</b> | Influencing Factors |
|----------------------------|---------------------|
| DM-1                       | Not identified      |
| DM-2                       | Not identified      |
| DM-3                       | Not identified      |
| DM-4a                      | Not identified      |

2.5.4 Weather conditions during impact monitoring are presented in **Appendix G** and extracts of wind data recorded at Kai Tak Wind Station available from the Hong Kong Observatory are presented in **Appendix H**.





#### 3. NOISE MONITORING

#### 3.1 Monitoring Locations

3.1.1 The monitoring locations for construction noise monitoring are listed in **Table 3.1** and shown in **Figure 3.1**.

**Table 3.1 Noise Monitoring Stations during Construction Phase** 

| ID Description |  | Maagunamant | Coordinates |         |
|----------------|--|-------------|-------------|---------|
|                | Description  | Measurement | Northing    | Easting |
| NM-2           | Chun Sing House, Tin Ma<br>Court                         | Façade      | 822668      | 837143  |
| NM-3           | Grace Methodist Church<br>Kindergarten                   | Façade      | 822782      | 837227  |
| NM-4a*         | Road pavement near Wang<br>King House, Tin Wang<br>Court | Free field  | 822854      | 837340  |

Notes:

The noise monitoring stations proposed in the EM&A Manual (NM-1) were not available for baseline and impact monitoring. Therefore, impact monitoring at NM-1 was cancelled and agreed by the ER, IEC and EPD. \* The noise monitoring stations proposed in the EM&A Manual (NM-4) were not available for baseline and impact monitoring during the reporting period. NM-4a was proposed as an alternative noise monitoring station and agreed by the ER, IEC and EPD.

#### 3.2 Noise Monitoring Parameter, Frequency and Duration

- 3.2.1 Construction noise level was measured by the ET and measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{eq(30-\text{min})}$  used as the monitoring parameter for the construction noise monitoring.
- 3.2.2 As supplementary information for data auditing, statistical results such as  $L_{10}$  and  $L_{90}$  were also obtained for reference.
- 3.2.3 **Table 3.2** summarized the monitoring parameters, duration, and frequency of construction noise monitoring.

Table 3.2 Construction Noise Monitoring Parameter, Frequency and Duration

| Parameters             | Time                                   | Frequency       | Duration                          |
|------------------------|--|-----------------|-----------------------------------|
| $L_{eq(30	ext{-min})}$ | 0700 and 1900 hours on normal weekdays | once every week | Throughout the construction phase |

#### 3.3 Monitoring Equipment, Methodology and QA / QC Procedure

3.3.1 As referred to the technical memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications were used for carrying out the construction noise monitoring.





- 3.3.2 Noise measurements were not made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed was checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.3.3 Sufficient numbers of noise measuring equipment and associated instrumentation were prepared by the Environmental Team. All the equipment and associated instrumentation were clearly labelled.
- 3.3.4 Wind data were collected from the records of Hong Kong Observatory Kai Tak Wind Station (22.30966N, 114.21336E), which is located at the south-eastern side of runway of the former Kai Tak Airport about 4.5 km south-east from the project site.
- 3.3.5 The monitoring procedures are as follows:
  - For façade measurement, the monitoring station was set at a point 1 m from the exterior of the sensitive receivers building façade and set at a position 1.2 m above the ground. For free-field measurement, the monitoring station was set at a position 1.2 m above the ground.
  - The battery condition was checked to ensure good functioning of the meter.
  - Parameters such as frequency weighting, the time weighting and the interval were set as follows:

• Frequency weighting: A

• Time weighting : Fast

• Interval : 30 minutes  $(L_{eq(30-\min)})$  would be determined for

daytime noise by calculating the logarithmic

average of six  $L_{eq(5-min)}$  data

- Prior to and after each noise measurement, the meter was calibrated using an acoustic calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement will be required after recalibration or repair of the equipment.
- At the end of the monitoring period, the values of  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, noise sources were recorded on a standard record sheet.
- 3.3.6 **Table 3.3** summarized the noise monitoring equipment used during the construction noise monitoring. Calibration certificates for the impact noise monitoring equipment are attached in **Appendix E**.





**Table 3.3 Construction Noise Monitoring Equipment** 

| Equipment         | Model (Serial Number)  | <b>Calibration Due Date</b> |
|-------------------|------------------------|-----------------------------|
| Sound Level Meter | Nti-XL2 (A2A-13548-E0) | 05/02/2024                  |
| Sound Calibrator  | Rion NC 75 (34724243)  | 04/07/2023                  |

#### 3.4 Maintenance and Calibration

- 3.4.1 Maintenance and calibration procedures are as follows:
  - The microphone head of the sound level meter and calibrator were regularly cleaned with a soft cloth; and
  - The sound level meter and acoustic calibrator were calibrated annually by a HOKLAS accredited laboratory or the manufacturer.

#### 3.5 Action and Limit Levels

3.5.1 The Action and Limit levels were established in accordance with the EM&A Manual. **Table 3.4** presents the Action and Limit Levels for construction noise. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.

Table 3.4 Action and Limit Levels for Construction Noise Monitoring

| Monitoring<br>Stations | Action Level                              | Limit Level    | Time Period                          |
|------------------------|---|----------------|--------------------------------------|
| NM-2                   |   | 75 dB(A)       |                                      |
| NM-3                   | When one documented complaint is received | 70/ 65 dB(A) * | 0700 - 1900 hours on normal weekdays |
| NM-4a                  |   | 75 dB(A)       |                                      |

Notes:

If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

#### 3.6 Results and Observations

- 3.6.1 The construction noise monitoring was conducted on 6, 12, 18 and 24 April 2023. The monitoring schedule is presented in **Appendix F**.
- 3.6.2 The construction noise monitoring results are summarized in **Table 3.5**. No Action or Limit levels exceedance was recorded in the reporting period. Details of the results and graphical presentation are shown in **Appendix I**.

<sup>\*</sup> Reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.



**Table 3.5 Summary of Construction Noise Monitoring Results** 

| 3.5                   | N    | Noise Level, d    | B(A)    |               |
|-----------------------|------|-------------------|---------|---------------|
| Monitoring<br>Station |      | $L_{eq}$ (30-min) |         | Limit Level   |
| Station               | Mean | Minimum           | Maximum |               |
| NM-2                  | 70.1 | 69.8              | 70.4    | 75 dB(A)      |
| NM-3                  | 65.2 | 64.9              | 65.4    | 70/65 dB(A) * |
| NM-4a                 | 69.3 | 68.9              | 69.7    | 75 dB(A)      |

Note: \*Reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods

- 3.6.3 Weather conditions during impact monitoring are presented in **Appendix I** and extracts of wind data recorded at Kai Tak Wind Station available from the Hong Kong Observatory are presented in **Appendix H**.
- 3.6.4 During the construction noise monitoring period, the influencing factors which may affect the results are summarized in **Table 3.6**.

**Table 3.6 Influencing Factors at Noise Monitoring Stations** 

| <b>Monitoring Stations</b> | Influencing Factors |
|----------------------------|---------------------|
| NM-2                       | Road Traffic Noise  |
| NM-3                       | Road Traffic Noise  |
| NM-4a                      | Road Traffic Noise  |





### 4. WASTE MANAGEMENT

4.1.1 Waste generated from the Project includes inert construction and demolition (C&D) materials and non-inert C&D wastes in the reporting period. The amount of waste generated by the construction works of the Project during the reporting period is shown in **Table 4.1** and the cumulative waste flow table was presented in **Appendix J**.

Table 4.1 Summary of Waste Generated in the Reporting Period

|             | Ac                             | Actual Quantalities of Inert C&D Materials Generated Monthly                     |                              |                                |                               |                          |             | al Quantities o                | f C&D Wastes | Generated M       | onthly                            | Actual Quantities of C&D Wastes Recycled |                                  |  |               |                          |  |  |
|-------------|--------------------------------|--|------------------------------|--------------------------------|-------------------------------|--------------------------|-------------|--------------------------------|--------------|-------------------|-----------------------------------|--|----------------------------------|--|---------------|--------------------------|--|--|
| Month       | Total<br>Quantity<br>Generated | Broken<br>Concrete<br>(Including<br>rock for<br>recycling<br>into<br>aggregates) | Reused in<br>the<br>Contract | Reused in<br>other<br>Projects | Disposed<br>as Public<br>Fill | Imported<br>Fill         | Metals      | Paper /<br>Carboard<br>Packing | Plastics     | Chemical<br>Waste | Others e.g.,<br>general<br>refuse | Metals                                   | Paper/<br>cardboard<br>packaging | Plastics<br>(bottles/<br>containers,<br>plastic<br>sheets/foam<br>package<br>material) | Yard<br>Waste | Others                   |  |  |
|             | (in '000m <sup>3</sup> )       | (in '000m <sup>3</sup> )   | (in '000m <sup>3</sup> )     | (in '000m <sup>3</sup> )       | (in '000m <sup>3</sup> )      | (in '000m <sup>3</sup> ) | (in '000kg) | (in '000kg)                    | (in '000kg)  | (in '000kg)       | (in '000m <sup>3</sup> )          | (in '000kg)                              | (in '000kg)                      | (in '000kg)  | (in '000kg)   | (in '000m <sup>3</sup> ) |  |  |
| Apr<br>2023 | 0.05712                        | 0.00000  | 0.00000                      | 0.00000                        | 0.05712                       | 0.00000                  | 0.00000     | 0.00000                        | 0.00000      | 0.00000           | 0.20064                           | 0.00000                                  | 0.00000                          | 0.00000  | 0.00686       | 0.00000                  |  |  |

- 4.1.2 Construction and demolition (C&D) materials sorting was carried out on site. Sufficient receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were reused to minimize the disposal of C&D waste to public fill.
- 4.1.3 The Contractor is advised to minimize the waste generated through recycling or reusing. All applicable mitigation measures stipulated in the EM&A Manual and waste management plans shall be fully implemented.





#### 5. ENVIRONMENTAL SITE INSPECTION AND AUDIT

- 5.1.1 Site inspections were carried out by the ET on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the Project. During the reporting period, site inspections were carried out on 6, 14, 19 and 28 April 2023. Joint site inspection with the ER, the Contractor and the IEC was carried out on 19 April 2023.
- 5.1.2 During the site inspections in the reporting period, no non-conformance was identified. Key observations and reminders during the site inspections are described in **Table 5.1.**

 Table 5.1
 Summary of Site Inspection Observations and Recommendations

| Inspection<br>Date | Key Observation / Reminders   | Follow-up Action  |
|--------------------|---|---|
|                    | 1. Demolished materials were found within the tree protection zone (TPZ). The Contractor was requested to remove these materials and maintain the TPZ free from C&D waste and construction materials (Portion 3, Upper part). (Observation)   | The construction materials found within the TPZ was removed.                          |
| 6 Apr 2023         | 2. A breaker tip was found lying on the ground. The Contractor was reminded to put an impervious tarpaulin sheet underneath the tip to prevent land contamination from any lubricant oil leaking from the tip (Portion 3, upper part). (Reminder)                                   | 2. An impervious tarpaulin sheet was placed underneath the breaker tip.               |
|                    | 3. The Contractor was reminded to properly maintain the site drainage (Portion 3, upper part). (Reminder)   | 3. Sandbags barriers was erected to protect the site drainage.                        |
| 14 Apr 2023        | 1. The Contractor was reminded to remove the stockpile of dusty materials and located away from the storm drain. (Portion 3, upper part). (Reminder)  | Dusty materials was removed.  |
| 19 Apr 2023        | 1. Tree Protection Zones (TPZ) for some trees do not cover the entire root system (main roots), leaving roots exposed to construction. The Contractor was requested to extend TPZ further from tree trunk to cover main roots/ exposed roots (Portion 3, upper part). (Observation) | The TPZ was extended to cover the entire root system.                                 |
|                    | 2. Excavation extended to main roots, leaving roots exposed and prone to construction works. The Contractor was advised to move excavation  | 2. Excavation zone was moved further away from root system and TPZ wherever possible. |





| Inspection<br>Date | Key Observation / Reminders  | Follow-up Action  |
|--------------------|--|---|
|                    | further away from root system and TPZ wherever possible (Portion 3, upper part). (Observation)  3. Construction debris is left exposed near TPZ. The Contractors should remove the construction debris (Portion 3, upper part). (Observation)  | 3. The construction debris near TPZ was removed.  |
|                    | 4. Breaker tips are exposed and prone to oil leakage and land contamination. The Contractor was requested to place impervious tarpaulin sheets underneath the breaker tips to prevent potential land contamination due to leakage of oil/lubricant (Portion 3, lower and upper parts). (Observation) | 4. Impervious tarpaulin sheets were placed underneath the breaker tips to prevent potential land contamination issue. |
| 28 Apr 2023        | No major environmental deficiency was observed.  | N/A   |

5.1.3 According to the EIA Report, EP and the EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. A summary of the Project Implementation Schedule is provided in **Appendix D**.





### 6. ENVIRONMENTAL NON-COMPLIANCE

#### 6.1 Summary of Exceedance

- 6.1.1 No Action Level or Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting period.
- 6.1.2 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.
- 6.1.3 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action/ Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix C** would be carried out.

#### **6.2** Summary of Environmental Non-Compliance

6.2.1 No environmental non-compliance was recorded in the reporting period.

#### 6.3 Summary of Environmental Complaint

6.3.1 No environmental complaint was received in the reporting period. The Cumulative Complaint Log is presented in **Appendix K**.

#### 6.4 Summary of Environmental Summon and Successful Prosecution

6.4.1 There was no successful environmental prosecution or notification of summons received since the Project commencement. The Cumulative Log for environmental summon and successful prosecution is presented in **Appendix K**.





#### 7. FUTURE KEY ISSUE

# 7.1 Construction Works and Potential Environmental Issues in the next Reporting Period

- 7.1.1 The construction programme for the Project for the next reporting period is presented in **Appendix A**.
- 7.1.2 Works to be undertaken in the next three months are summarized below:
  - Site formation
  - Pipe piling
  - Sheet piling
  - Tree transplanting
  - Demolition of pumping station
  - Hoarding erection
- 7.1.3 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust impact, noise impact, water quality impact, waste management and landscape and visual.

#### 7.2 Recommendation

7.2.1 The key environmental mitigation measures for the Project in the coming reporting period associated with above construction activities will include:

#### Dust

- Regular watering to reduce dust emissions from exposed site surface;
- Stockpile of dusty materials shall be covered entirely by impervious sheeting;
- Provide vehicles washing facilities at all site exits to wash away any dusty materials from vehicle body;
- NRMM Labels should be displayed on the applicable equipment on site by the Contractor;
- All vehicle and plant should be cleaned before they leave a construction site.

#### <u>Noise</u>

- Only well-maintained plant should be operated on-site, and plant should be maintained regularly during the construction programme;
- Quality Powered Mechanical Equipment (QPME) should be adopted as far as possible.





#### **Water Quality**

- No effluent discharge would be allowed before acquired the effluent discharge license.
- Surface run-off from construction sites should be discharged into dedicated discharge point via adequately designed sand/ silt removal facilities;
- Channels/ earth bunds/ sandbags barriers should be provided on site to properly direct stormwater to silt removal facilities;
- Silt removal facilities, channels and manholes should be maintained, and the deposited silt and grit should be removed regularly;
- Open stockpiles of construction materials on sites should be covered with tarpaulin or similar fabric during rainstorms;
- Perimeter channels should be provided on site boundaries where necessary to intercept stormwater run-off from outside the site so that it will not wash across the site.

#### Waste Management

- Provision of sufficient waste disposal points and regular collection of waste;
- Regular cleaning and maintenance programme for drainage system;
- Chemical containers shall be stored with drip tray underneath.

#### Ecology

- Minimize loss of habitats and associated wildlife;
- Using directional lighting to prevent excessive light spill into adjacent natural habitat and disturbance to nocturnal fauna.

#### Landscape and Visual

- Construction activities shall be carefully designed to minimize impact on existing retained trees;
- Adequate tree protection measures shall be provided for the trees to be retained on site.





#### 8. CONCLUSION, COMMENTS AND RECOMMENDATION

#### 8.1 Conclusion

- 8.1.1 This 1<sup>st</sup> Monthly EM&A Report presents the EM&A works during the reporting period from 31 March 2023 to 30 April 2023 in accordance with the EM&A Manual.
- 8.1.2 No Action Level or Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting period.
- 8.1.3 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.
- 8.1.4 Environmental site inspections were conducted on 6, 14, 19 and 28 April 2023 by the ET in the reporting period.
- 8.1.5 No environmental complaint was received in the reporting period.
- 8.1.6 No notification of summons and prosecution was received in the reporting period.
- 8.1.7 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.
- 8.1.8 No change to the EM&A programme was made in this reporting period.

#### 8.2 Comments and Recommendations

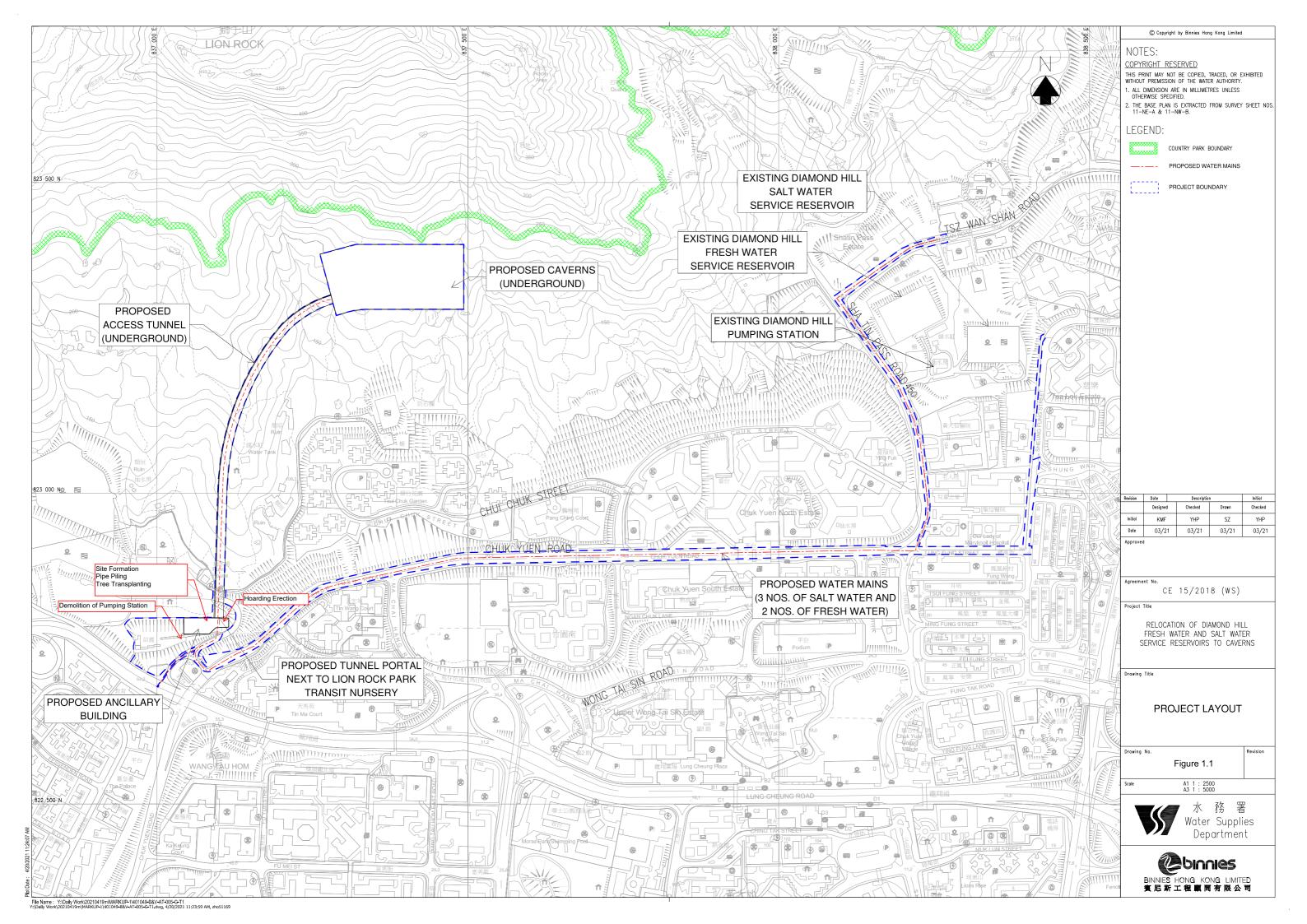
- 8.2.1 The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.
- 8.2.2 Following the submission of the Baseline Monitoring Report, comments were issued by the EPD in late March 2023 advising the ET to consider setting up air quality and noise monitoring stations at Tsui Chuk Garden and additional noise monitoring stations for watermains construction works along Chuk Yuen Road, Sheung Fung Street and Shatin Pass Road. In response to the EPD comments, a proposal of updating air quality and noise monitoring stations was submitted to the EPD for comment. Additional baseline monitoring at these stations will be carried out in May 2023.

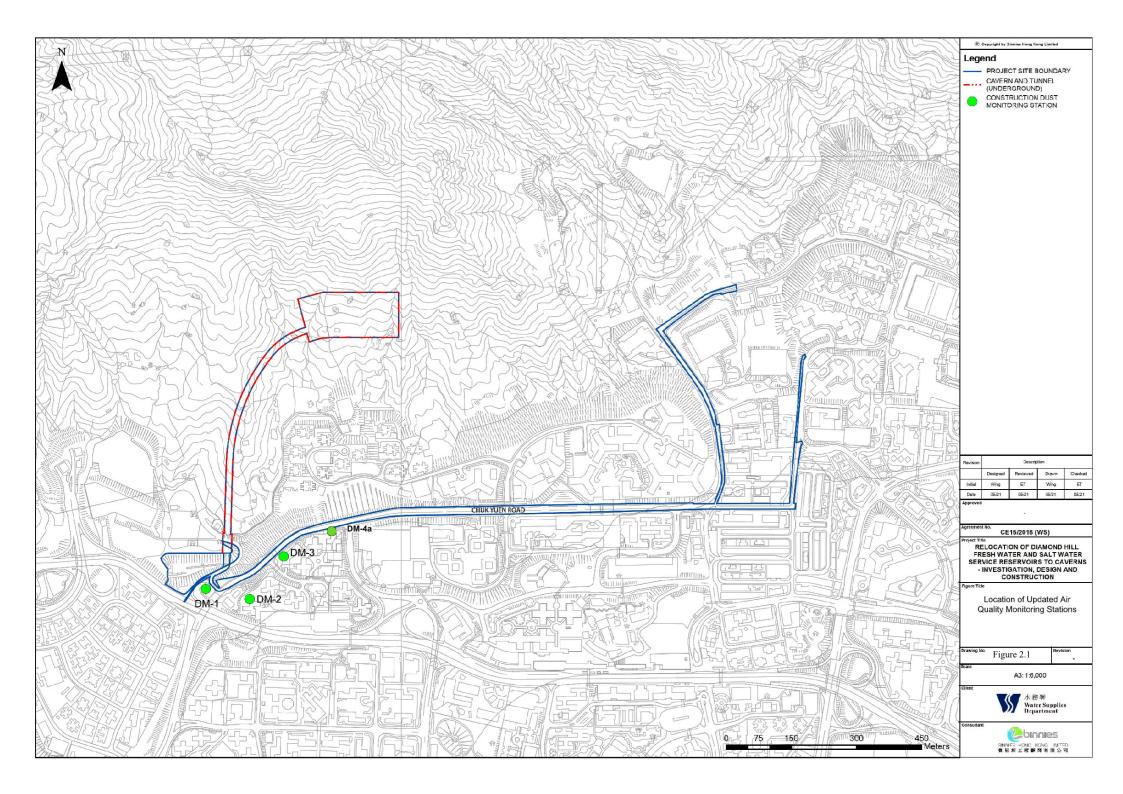
Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Monthly EM&A Report

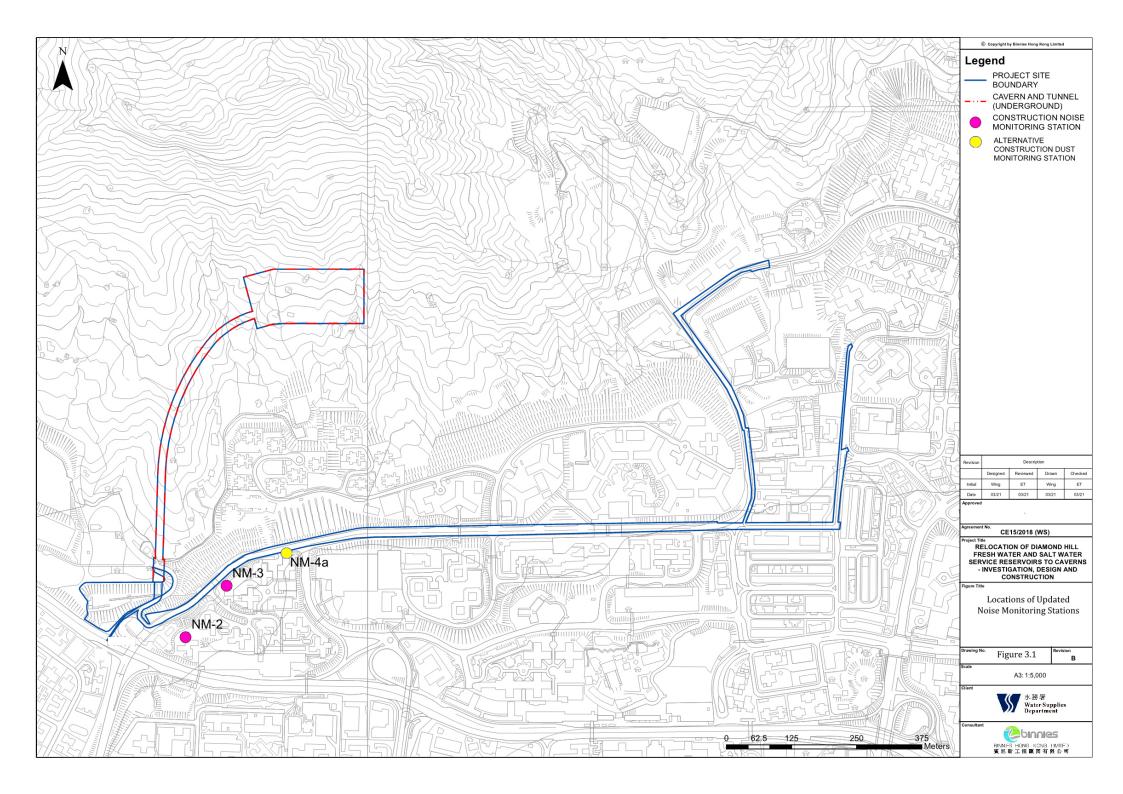




# **Figures**







Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Monthly EM&A Report





# Appendix A

**Master Construction Pogramme for the Project** 

Monthly Programme January 2023

| Contract Date  CD-1000   | Contract Date (CD)  Starting date (SD, within 2weeks from the CD)  Completion date for the whole of the works (1585d)  te  Planned Completion date for the whole of the works (1585d)  Portion 5  Portion 1 (90d after SD)  Portion 3 (90d after SD) | 100%<br>100%<br>0%<br>0% | 1293<br>1596<br>0<br>0<br>0<br>0<br>0<br>90<br>0 | 1293<br>1596<br>0<br>0<br>0<br>0<br>0<br>100<br>0 | 29-Nov-22 29-Nov-22 29-Nov-22 09-Dec-22 12-Apr-27 11-Apr-27 09-Dec-22 09-Dec-22 | 12-Apr-27 12-Apr-27 12-Apr-27 11-Apr-27 11-Apr-27 09-Mar-23 | 29-Nov-22 A 29-Nov-22 A 29-Nov-22 A 09-Dec-22 A 11-Apr-27 09-Dec-22 A 09-Dec-22 A |                                      | 0<br>0<br>0<br>1<br>1<br>1316 | \$ Contra         | act Date (  | CD)        | n 2week    | from the    |             |            |             | JJAS       |         |       |         |       |
|--|--|--------------------------|--|---|---|---|---|--------------------------------------|-------------------------------|-------------------|-------------|------------|------------|-------------|-------------|------------|-------------|------------|---------|-------|---------|-------|
| CD-1000  CD-1010  CD-1010  COntract Completion Date  KD-1000  Anticipated Completion Date  KD-2100  Access Date  AD-1040  AD-1040  AD-1020  AD-1030  F  Sub-letting / Procurement  Works Sub-letting | Starting date (SD, within 2weeks from the CD)  Completion date for the whole of the works (1585d)  te  Planned Completion date for the whole of the works (1585d)  Portion 5  Portion 1 (90d after SD)  Portion 2 (90d after SD)                     | 100%  0%  100%  0%  0%   | 0<br>0<br>0<br>0<br>0<br>0<br>90                 | 0<br>0<br>0<br>0<br>0<br>0                        | 29-Nov-22 09-Dec-22 12-Apr-27 11-Apr-27 09-Dec-22 09-Dec-22                     | 12-Apr-27<br>12-Apr-27<br>11-Apr-27                         | 29-Nov-22 A 09-Dec-22 A 12-Apr-27 11-Apr-27 09-Dec-22 A                           | 12-Apr-27<br>12-Apr-27*<br>11-Apr-27 | 0 0 1 1 1 1316                | <b>\$</b> Startin | ng date (   | SD, withi  |            | from the    | CD)         |            |             |            |         |       |         |       |
| CD-1010  Contract Completion Date  KD-1000  Anticipated Completion Date  KD-2100  Access Date  AD-1040  AD-1010  AD-1020  AD-1030  F  Sub-letting / Procurement  Works Sub-letting                   | Starting date (SD, within 2weeks from the CD)  Completion date for the whole of the works (1585d)  te  Planned Completion date for the whole of the works (1585d)  Portion 5  Portion 1 (90d after SD)  Portion 2 (90d after SD)                     | 100%  0%  100%  0%  0%   | 0 0 0 0 0 0 0                                    | 0 0 0 0 100 0                                     | 09-Dec-22 12-Apr-27 11-Apr-27 09-Dec-22 09-Dec-22                               | 12-Apr-27 11-Apr-27   | 09-Dec-22 A  12-Apr-27  11-Apr-27  09-Dec-22 A                                    | 12-Apr-27* 11-Apr-27                 | 0 0 1 1 1 1316                | <b>\$</b> Startin | ng date (   | SD, withi  |            | from the    | CD)         |            |             |            |         |       |         |       |
| CD-1010  Contract Completion Date  KD-1000  Anticipated Completion Date  KD-2100  Access Date  AD-1040  AD-1000  AD-1010  AD-1020  F  AD-1030  F  Sub-letting / Procurement  Works Sub-letting       | Starting date (SD, within 2weeks from the CD)  Completion date for the whole of the works (1585d)  te  Planned Completion date for the whole of the works (1585d)  Portion 5  Portion 1 (90d after SD)  Portion 2 (90d after SD)                     | 100%  0%  100%  0%  0%   | 0 0 0 0 0 0 0                                    | 0 0 0 0 100 0                                     | 09-Dec-22 12-Apr-27 11-Apr-27 09-Dec-22 09-Dec-22                               | 12-Apr-27 11-Apr-27   | 09-Dec-22 A  12-Apr-27  11-Apr-27  09-Dec-22 A                                    | 12-Apr-27* 11-Apr-27                 | 0 0 1 1 1 1316                | <b>\$</b> Startin | ng date (   | SD, withi  |            | s from the  | CD)         |            |             |            |         |       |         |       |
| Contract Completion Date  KD-1000 ( Anticipated Completion Date  KD-2100 F  Access Date  AD-1040 F  AD-1040 F  AD-1010 F  AD-1020 F  AD-1030 F  Sub-letting / Procurement                            | Completion date for the whole of the works (1585d)  te  Planned Completion date for the whole of the works (1585d)  Portion 5  Portion 1 (90d after SD)  Portion 2 (90d after SD)  | 0%<br>0%<br>100%<br>0%   | 0 0 0 0 0 0 0                                    | 0 0 0 0 100 0                                     | 12-Apr-27 11-Apr-27 09-Dec-22 09-Dec-22   | 12-Apr-27 11-Apr-27   | 12-Apr-27<br>11-Apr-27<br>09-Dec-22 A   | 12-Apr-27* 11-Apr-27                 | 0<br>1<br>1<br>1316           |                   |             |            |            | from the    | CD)         |            |             |            |         |       |         |       |
| Anticipated Completion Date  KD-2100  Access Date  AD-1040  AD-1000  AD-1010  AD-1020  AD-1030  F  Sub-letting / Procurement  Works Sub-letting  | Planned Completion date for the whole of the works (1585d)  Portion 5  Portion 1 (90d after SD)  Portion 2 (90d after SD)  | 0%<br>100%<br>0%         | 0 0 0 90 0                                       | 0 0 0 100 0                                       | 11-Apr-27<br>09-Dec-22<br>09-Dec-22   | 12-Apr-27 11-Apr-27   | 11-Apr-27<br>09-Dec-22 A  | 12-Apr-27* 11-Apr-27                 | 0<br>1<br>1<br>1316           |                   | 7 09-Mar    | 23, Афсе   | ss Date    |             |             |            |             |            |         |       |         |       |
| Anticipated Completion Date  KD-2100 F  Access Date  AD-1040 F  AD-1000 F  AD-1010 F  AD-1020 F  AD-1030 F  Sub-letting / Procurement  Works Sub-letting   | Planned Completion date for the whole of the works (1585d)  Portion 5  Portion 1 (90d after SD)  Portion 2 (90d after SD)  | 0%<br>100%<br>0%         | 0 0 90 0   | 0 0 100 0   | 09-Dec-22   | 11-Apr-27   | 09-Dec-22 A   | 11-Apr-27                            | 1 1 1316                      |                   | 7 09-Mar    | 23, A¢ce   | ess Date   |             |             |            |             |            |         |       |         |       |
| AD-1040 F AD-1040 F AD-1040 F AD-1000 F AD-1010 F AD-1020 F AD-1030 F Sub-letting / Procurement Works Sub-letting  | Planned Completion date for the whole of the works (1585d)  Portion 5  Portion 1 (90d after SD)  Portion 2 (90d after SD)  | 100%<br>0%               | 90   | 0 100   | 09-Dec-22   | 11-Apr-27   | 09-Dec-22 A   | 11-Apr-27                            | 1316                          |                   | / 09-Mar    | 23, A¢ce   | ss Date    |             |             |            |             |            |         |       |         |       |
| ACCESS Date  AD-1040 F  AD-1000 F  AD-1010 F  AD-1020 F  AD-1030 F  Sub-letting / Procurement  Works Sub-letting   | Portion 5  Portion 1 (90d after SD)  Portion 2 (90d after SD)  | 100%<br>0%               | 90   | 100   | 09-Dec-22   |   |   |                                      | 1316                          |                   | 7 09-Mar    | 23, Acce   | ss Date    |             |             |            |             |            |         |       |         |       |
| ACCESS Date  AD-1040 F  AD-1000 F  AD-1010 F  AD-1020 F  AD-1030 F  Sub-letting / Procurement  Works Sub-letting   | Portion 5  Portion 1 (90d after SD)  Portion 2 (90d after SD)  | 100%<br>0%               | 90   | 100   | 09-Dec-22   |   |   |                                      | 1316                          |                   | 7 09-Mar-   | 23, Acce   | ss Date    |             |             |            |             |            |         |       |         |       |
| AD-1040 F AD-1000 F AD-1010 F AD-1020 F AD-1030 F Sub-letting / Procurement Works Sub-letting  | Portion 1 (90d after SD)  Portion 2 (90d after SD)   | 0%                       | 0  | 0   | 09-Dec-22   | 09-Mar-23   |   | 09-Mar-23                            |                               |                   | 7 09-Mar    | 23, Acce   | ss Date    |             |             |            |             | 1 1 1 1 1  |         |       |         |       |
| AD-1000 F AD-1010 F AD-1020 F AD-1030 F Sub-letting / Procurement Works Sub-letting  | Portion 1 (90d after SD)  Portion 2 (90d after SD)   | 0%                       | 0  |   |   |   | 09-Dec-22 A   |                                      |                               |                   |             | 1 1 1      | 1 1 1      | 1 1 1 1     | 1 1 1       |            |             |            | 1 1 1 1 |       | 1 1 1 1 |       |
| AD-1010 F AD-1020 F AD-1030 F Sub-letting / Procurement Works Sub-letting  | Portion 2 (90d after SD)   | 0%                       | 0  | 0   | 00-Mar-22   |   |   |                                      |                               | Portic            | on 5        |            |            |             |             |            |             |            |         |       |         |       |
| AD-1020 F AD-1030 F Sub-letting / Procurement Works Sub-letting  |  |                          | 0  |   | 00-Ivial-23   |   | 09-Mar-23   |                                      | 15                            | 8                 | Portion     | 1 (90d a   | fter SD)   |             |             |            |             |            |         |       |         |       |
| AD-1030 F Sub-letting / Procurement Works Sub-letting  | Portion 3 (90d after SD)   | 201                      | 1  | 0   | 09-Mar-23   |   | 09-Mar-23   |                                      | 1316                          | 8                 | Portion     | 2 (90d a   | fter SD)   |             |             |            |             |            |         |       |         |       |
| AD-1030 F Sub-letting / Procurement Works Sub-letting  |  | 0%                       | 0  | 0   | 09-Mar-23   |   | 09-Mar-23   |                                      | 1                             |                   | Portion     | 3 (90d a   | fer SD)    |             |             |            |             |            |         |       |         |       |
| Sub-letting / Procurement  |  |                          |  |   |   |   |   |                                      |                               |                   |             |            |            |             |             |            |             |            |         |       |         |       |
| Works Sub-letting  | Portion 4 (90d after SD)   | 0%                       | 0  | 0   | 09-Mar-23   |   | 09-Mar-23   |                                      | 43                            | 8                 | Portion     | 4:(9/0d a  | ter SD)    |             |             |            |             |            |         |       |         |       |
|  | ent  |                          | 267  | 267   | 29-Nov-22   | 24-Oct-23   | 29-Nov-22 A   | 24-Oct-23                            | 1026                          |                   |             | `          | 24-Oct     | 23, Sub-l   | etting / Pi | Procuren   | ment        |            |         |       |         |       |
| 21 SUB G 10000   |  |                          | 267  | 267   | 29-Nov-22   | 24-Oct-23   | 29-Nov-22 A   | 24-Oct-23                            | 1026                          | Y                 |             |            | 24-Oct     | 23, Work    | s Sub-let   | tting      |             |            |         |       |         |       |
| Z1.00B.0.10000   | Subletting for Initial Survey Works (WO001)  | 100%                     | 0  | 18  |   |   | 29-Nov-22 A   | 30-Dec-22 A                          |                               | Sub               | letting for | Initial Su | ırvey Wo   | rks (WO0    | 01)         |            |             |            |         |       |         |       |
| 21.SUB.G.10010   | Subletting for Temporary Supply of Water (WO002)   | 100%                     | 0  | 18  |   |   | 29-Nov-22 A   | 30-Dec-22 A                          |                               | <b>□</b> Sub      | letting for | Tempor     | ary Supp   | ly of Wate  | r (WO00     | 02)        |             |            |         |       |         |       |
|  |  |                          |  |   |   |   |   |                                      |                               |                   |             |            |            | ly of Elect |             |            |             |            |         |       |         |       |
| 21.SUB.G.10020   | Subletting for Temporary Supply of Electricity (WO003)   | 100%                     | 0  | 18  |   |   | 29-Nov-22 A   | 30-Dec-22 A                          |                               |                   |             |            |            |             |             |            |             |            |         |       |         |       |
| 21.SUB.G.10040   | Subletting for Construction of New Shed and Miscellaneous Works (WO005)  | 70%                      | 0  | 18  |   |   | 29-Nov-22 A   | 11-Jan-23                            | 124                           | Sul               | bletting fo | r Constr   | uotion of  | New She     | d and Mi    | liscellane | eous Wor    | ks (WO00   | 5)      |       |         |       |
| S-240  | Subletting for Condition Survey, CCTV Inspection Survey  | 41.11%                   | 90   | 90  | 29-Nov-22   | 26-Feb-23   | 09-Dec-22 A   | 26-Feb-23                            | 66                            |                   | Sublettin   | g for Co   | ndition S  | ırvey, CC   | ΓV Inspe    | ection S   | Survey      |            |         |       |         |       |
| S-200A S   | Subletting for Consultants incl. designer, ICE, Traffic consultant   | 41.11%                   | 90   | 90  | 29-Nov-22   | 26-Feb-23   | 09-Dec-22 A   | 26-Feb-23                            | 0                             |                   | Sublettin   | g for Co   | nsultants  | incl. desig | ner, ICE    | E, Traffic | consultar   | nt         |         |       |         |       |
| 21.SUB.G.10030   | Subletting for Tree Survey Works (WO004)   | 58.33%                   | 0  | 36  |   |   | 09-Dec-22 A   | 21-Jan-23                            | 24                            | ■ Sı              | ubletting f | or Tree S  | Survey W   | orks (WC    | 004)        |            |             |            |         |       |         |       |
|  |  |                          |  |   |   |   |   |                                      |                               | <b>□</b> Çi       | ıblettina f | or Traffic | Consult    | ncy Serv    | ces Star    | ge 1 (\\/  | (O006)      |            |         |       |         |       |
|  | Subletting for Traffic Consultancy Services Stage 1 (WO006)  | 58.33%                   | 0  | 36  |   |   | 09-Dec-22 A   |                                      | 385                           |                   |             |            |            |             |             |            |             |            |         |       |         |       |
| 21.SUB.G.10060   | Subletting for Condition Survey & Pre-Construction Condition Survey (WO007)  | 58.33%                   | 0  | 36  |   |   | 09-Dec-22 A   | 21-Jan-23                            | 281                           | Sı.               | ubletting f | or Condi   | tion \$urv | ey & Pre-   | Construc    | ction Co   | ondition Su | rvey (WO   | 007)    |       |         |       |
| 21.SUB.G.10070   | Subletting for UU Detection Works (WO008)  | 58.33%                   | 0  | 36  |   |   | 09-Dec-22 A   | 21-Jan-23                            | 9                             | Sı                | ubletting f | or UU D    | etection \ | Vorks (W    | D008)       |            |             |            |         |       |         |       |
| 21.SUB.G.10080   | Subletting for ICE Consultant - Temp Works for Site Formation for PAB (WO012)  | 50%                      | 0  | 42  |   |   | 09-Dec-22 A   | 01-Feb-23                            | 1242                          | s s               | Subletting  | for ICE (  | Consulta   | t - Temp \  | Vorks fo    | or Site Fo | ormation 1  | for PAB (W | O012)   |       |         |       |
|  |  |                          |  |   |   |   |   |                                      |                               |                   |             |            |            |             |             |            |             |            |         |       |         |       |
| 1st Programme B  | Baseline ♦ ♦ 1st Programme Baseline Milestone  |                          |  |   |   | 1 of 27   |   |                                      |                               | Date              |             |            |            | Re          | vision      |            |             |            | Che     | ecked | Ар      | prove |
| Actual Work  | ◆ Milestone  |                          |  |   |   | 1 01 21   |   |                                      | 12-De                         |                   | First       | Progra     | mme        |             |             |            |             |            |         |       | •       |       |

Remaining Work

Critical Remaining Work

Summary

12-Jan-23

Monthly Programme January 2023

| vity ID             | Activity Name  | Activity % Complete | 1st Prog.<br>Dur. | Original Duration | 1st Prog. Start | 1st Prog. Finish | Start       | Finish    | Total<br>Float | ul el ili  | 2023 2024 2025 2026   |
|---------------------|--|---------------------|-------------------|-------------------|-----------------|------------------|-------------|-----------|----------------|------------|---|
| 21.SUB.G.10090      | Subletting for ICE Consultant - Portion 4 (WO013)  | 50%                 | 0                 | 42                |                 |                  | 09-Dec-22 A | 01-Feb-23 | 1242           | VID J F    | MAMJJASONDJFMAMJJASONDJFMAMJJASONDJ<br>Subletting for ICE Consultant - Portion 4 (WQ013)      |
| 04.01/0.0           |  | 04.000/             |                   |                   |                 |                  | 00.5        | 04.14     | 1010           |            | I Subletting for Design Consultant (WO014)  |
| 21.SUB.G.10100      | Subletting for Design Consultant (WO014)   | 31.82%              | 0                 | 66                |                 |                  | 09-Dec-22 A | 01-Mar-23 | 1218           |            | Supremity of Pesyll Chisulant (WCO14)   |
| 21.SUB.G.10110      | Subletting for ICE Consultant - Civil & Structure (WO015)                                    | 50%                 | 0                 | 42                |                 |                  | 09-Dec-22 A | 01-Feb-23 | 1101           |            | Subletting for ICE Consultant - Civil-& Structure (WO015)                                     |
| 21.SUB.G.10120      | Subletting for Ground Investigation & Montioring Works (WO016)                               | 31.82%              | 0                 | 66                |                 |                  | 09-Dec-22 A | 01-Mar-23 | 1218           |            | Subletting for Ground Investigation & Montioring Works (WO016)                                |
| 21.SUB.G.10130      | Subletting for Design Services for Pemanent/CSD (WO018)                                      | 43.75%              | 0                 | 48                |                 |                  | 09-Dec-22 A | 08-Feb-23 | 1236           |            | Subletting for Design Services for Pemanent/CSD (WO018)                                       |
| 21.SUB.G.10140      | Subletting for Demolition Works (WO032)  | 50%                 | 0                 | 42                |                 |                  | 09-Dec-22 A | 01-Feb-23 | 1242           |            | Subletting for Demolition Works (WO032)   |
| 21.SUB.G.10150      | Subletting for Site Clearance (WO035)  | 29.17%              | 0                 | 72                |                 |                  | 09-Dec-22 A | 08-Mar-23 | 35             |            | ⊒ Subletting for Site Clearance (WO035)   |
| 21.SUB.G.10160      | Subletting for Environmental Monitoring Works and Appointment of Environmental Team (SC0001) | 58.33%              | 0                 | 36                |                 |                  | 09-Dec-22 A | 21-Jan-23 | 1248           | <b>-</b> S | Subletting for Environmental Monitoring Works and Appointment of Environmental Team (\$G0001) |
| 21.SUB.G.10170      | Subletting for Drainage and Duct for Slope Works (SC0004)                                    | 31.82%              | 0                 | 66                |                 |                  | 09-Dec-22 A | 01-Mar-23 | 1218           | -          | Subletting for Drainage and Duct for Slope Works (\$C0004)                                    |
| 21.SUB.G.10180      | Subletting for Landscape Softworks for Slope Works (SC0005)                                  | 31.82%              | 0                 | 66                |                 |                  | 09-Dec-22 A | 01-Mar-23 | 1218           |            | Subletting for Landscape Softworks for Slope Works (SC0005)                                   |
| 21.SUB.G.10190      | Subletting for Earthworks and ELS Works for PAB (SC0022)                                     | 31.82%              | 0                 | 66                |                 |                  | 09-Dec-22 A | 01-Mar-23 | 373            |            | I Subletting for Earthworks and ELS Works for PAB (\$C0022)                                   |
| 21.SUB.G.10200      | Subletting for RC Works for PAB (SC0022)   | 29.17%              | 0                 | 72                |                 |                  | 09-Dec-22 A | 08-Mar-23 | 110            |            | □ Subletting for RC Works for PAB (SC0022)  |
| S-220               | Subletting for Site Investigation Works incl. Borehole, Trial Trench, Manhole Survey         | 7.78%               | 90                | 90                | 29-Dec-22       | 28-Mar-23        | 29-Dec-22 A | 28-Mar-23 | 316            |            | Subletting for Site Investigation Works incl. Borehole, Trial Trench, Manhole Survey          |
| S-110               | Pre-bid for Designer for Alternative Design  | 0%                  | 28                | 28                | 29-Nov-22       | 26-Dec-22        | 02-Feb-23   | 01-Mar-23 | 1353           |            | Pre-bid:for Designer for Alternative Design   |
| S-260               | Subletting for Pipe Installation Works by Pipe Jacking                                       | 0%                  | 90                | 90                | 27-Feb-23       | 27-May-23        | 27-Feb-23   | 27-May-23 | 143            | ı          | Subletting for Pipe Installation Works by Pipe Jacking  |
| S-290               | Subletting for MIC Fabrication   | 0%                  | 110               | 90                | 29-Nov-22       | 18-Mar-23        | 29-Mar-23   | 26-Jun-23 | 1386           |            | → Subletting for MIC Fabrication  |
| S-280               | Subletting for Foundation Works  | 0%                  | 120               | 120               | 27-Jun-23       | 24-Oct-23        | 27-Jun-23   | 24-Oct-23 | 1266           |            | Subletting for Foundation Works   |
| Contractor's Design |  |                     | 497               | 490               | 27-Dec-22       | 29-Aug-24        | 09-Dec-22 A | 29-Aug-24 | 773            |            | ₹ 29-Alug-24, Contractor's Design   |
| 21.DES.PAB.10000    | Design submission and Approval for PAB ELS Works   | 38.89%              | 0                 | 54                |                 |                  | 09-Dec-22 A | 15-Feb-23 | 474            | -          | Design submission and Approval for PAB ELS Works  |
| 21.DES.PAB.10010    | Design submission and Approval for Hoarding at PAB   | 55.56%              | 0                 | 54                |                 |                  | 09-Dec-22 A | 04-Feb-23 | 53             |            | Design submission and Approval for Hoarding at PAB  |
| D-1100              | Design submission and Approval for Cathodic Protection of Watermains                         | 0%                  | 30                | 30                | 28-Jan-23       | 26-Feb-23        | 28-Jan-23   | 26-Feb-23 | 66             |            | Design submission and Approval for Cathodic Protection of Watermains                          |
| D-1080              | Design submission and Approval for Permanent Sleeve Pipe for Trenchless Works                | 0%                  | 90                | 90                | 27-Feb-23       | 27-May-23        | 27-Feb-23   | 27-May-23 | 143            | ı          | Design submission and Approval for Permanent Sleeve Pipe for Trenchless Works                 |
| D-1000              | Design submission and Approval for Cut and Cover Tunnel (Alternative)                        | 0%                  | 120               | 120               | 27-Dec-22       | 25-Apr-23        | 02-Mar-23   | 29-Jun-23 | 1383           | -          | Design submission and Approval for Cut and Cover Tunnel (Alternative)                         |
| D-1010              | Design submission and Approval for Tunnel Alignment and Cavern Layout (Alternative)          | 0%                  | 60                | 60                | 27-Dec-22       | 24-Feb-23        | 02-Mar-23   | 30-Apr-23 | 1443           |            | Design submission and Approval for Tunnel Alignment and Cavern Layout (Alternative)           |
| D-1020              | Design submission and Approval for Lining for Tunnel and Caverns (Alternative)               | 0%                  | 150               | 150               | 27-Dec-22       | 25-May-23        | 02-Mar-23   | 29-Jul-23 | 1353           | -          | Design submission and Approval for Lining for Tunnel and Caverns (Alternative)                |
| D-1030              | Design submission and Approval for Lining for Portal Foundation (Alternative)                | 0%                  | 150               | 150               | 27-Dec-22       | 25-May-23        | 02-Mar-23   | 29-Jul-23 | 1353           |            | Design submission and Approval for Lining for Portal Foundation (Alternative)                 |
| D-1090              | Design submission and Approval for Advance Treatment Works at Ma Chai Hang FWSR              | 0%                  | 90                | 90                | 09-Mar-23       | 06-Jun-23        | 09-Mar-23   | 06-Jun-23 | 1226           |            | Design submission and Approval for Advance Treatment Works at Ma Chai Hang FWSR               |
| 1et Drogmmm         | e Baseline ♦ ♦ 1st Programme Baseline Milestone  |                     |                   |                   |                 | 2 of 27          |             |           | Г              | ate        | Revision Checked Approx   |
| Actual Work         | Milestone  |                     |                   |                   | 4               | L UI Z1          |             |           | 12-De          |            | First Programme   |
| Actual Work         |  |                     |                   |                   |                 |                  |             |           |                |            |   |

Critical Remaining Work

| )   | Activity Name  | Activity %<br>Complete | 1st Prog.<br>Dur. | Original<br>Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float | 2023 2024 2025 2026   | 202<br>JD JEIN |
|---|--|------------------------|-------------------|----------------------|-----------------|------------------|-----------|-----------|----------------|---|----------------|
| 1070 I  | Design submission and Approval for Tunnel Internal Civil Structure                             | 0%                     | 90                | 90                   | 24-Dec-23       | 22-Mar-24        | 24-Dec-23 | 22-Mar-24 | 438            | D J F M A M J J A S O N D J A M J A M J A M J A M J A S O N D J A M J A | DJE.           |
| 1060 I  | Design submission and Approval for Overhead Ventilation Ducts                                  | 0%                     | 90                | 90                   | 23-Jan-24       | 21-Apr-24        | 23-Jan-24 | 21-Apr-24 | 906            | Design submission and Approval for Overhead Ventilation Ducts   |                |
| 1050  | Design submission and Approval for Architectual Works  | 0%                     | 90                | 90                   | 27-Feb-24       | 26-May-24        | 27-Feb-24 | 26-May-24 | 931            | Design submission and Approval for Architectual Works   |                |
|   | Design submission and Approval for E&M systems incl. ventilation, lighting, electrical, FS for | 0%                     | 150               | 150                  | 02-Apr-24       | 29-Aug-24        | 02-Apr-24 | 29-Aug-24 | 956            | Design submission and Approval for E&M systems incl. venti  | ation, lig     |
| Reprovision of Structure                      | Tunnel<br>es   |                        | 168               | 168                  | 27-Feb-23       | 13-Aug-23        | 27-Feb-23 | 13-Aug-23 | 1338           | ▼ 13-Aug-23; For Reprovision of Structures  |                |
| -S1000 I                                      | Design Works for Reprovision of Structures (AIP)   | 0%                     | 28                | 28                   | 27-Feb-23       | 26-Mar-23        | 27-Feb-23 | 26-Mar-23 | 1338           | ☐ Design Works for Reprovision of Structures (AIP)  |                |
|   | <u> </u>   |                        |                   |                      |                 |                  |           |           |                |   |                |
| -S1010 I                                      | ICE Checking - AIP   | 0%                     | 21                | 21                   | 27-Mar-23       | 16-Apr-23        | 27-Mar-23 | 16-Apr-23 | 1338           | □ ICE Checking -AIP   |                |
| -S1020  | Submission of Contractor Design (AIP) for PM's review  | 0%                     | 28                | 28                   | 17-Apr-23       | 14-May-23        | 17-Apr-23 | 14-May-23 | 1338           | Submission of Contractor Design (AIP) for PM's review   |                |
| -S1030  | Seeking Approval from PM   | 0%                     | 7                 | 7                    | 15-May-23       | 21-May-23        | 15-May-23 | 21-May-23 | 1338           | Seeking Approval from PM  |                |
| -S1040 I                                      | Design Works for Reprovision of Structures (DDA)   | 0%                     | 28                | 28                   | 22-May-23       | 18-Jun-23        | 22-May-23 | 18-Jun-23 | 1338           | Design Works for Reprovision of Structures (DDA)  |                |
| -S1080 S                                      | Submission and Approval for Foundation Design  | 0%                     | 21                | 21                   | 22-May-23       | 11-Jun-23        | 22-May-23 | 11-Jun-23 | 1401           | Submission and Approval for Foundation Design   |                |
| -S1050 I                                      | ICE Checking - DDR   | 0%                     | 21                | 21                   | 19-Jun-23       | 09-Jul-23        | 19-Jun-23 | 09-Jul-23 | 1338           | ☐ :ICE Checking - DDR   |                |
| -S1060 S                                      | Submission of Contractor Design (DDR) for PM's review  | 0%                     | 28                | 28                   | 10-Jul-23       | 06-Aug-23        | 10-Jul-23 | 06-Aug-23 | 1338           | Submission of Contractor Design (DDR) for PM's review   |                |
| -S1070 S                                      | Seeking Approval from PM with comment revised  | 0%                     | 7                 | 7                    | 07-Aug-23       | 13-Aug-23        | 07-Aug-23 | 13-Aug-23 | 1338           | ☐ Seeking Approval:from PM with comment revised   |                |
|   |  |                        |                   | ,                    | 07 7 kg 20      | 107.49.20        |           |           |                | ▼ 12-May-24, Contractor's Blásting Assessment Report (CBAR)   |                |
| ntractor's Blasting Asses                     | sment Report (CBAR)  |                        | 0                 | 431                  |                 |                  | 09-Mar-23 | 12-May-24 | 36             |   |                |
| ontractor's Blasting Asses                    | ssment Report (CBAR) - VAT Tunnel (Before MTR Vicinity) Vol.1                                  |                        | 0                 | 304                  |                 |                  | 09-Mar-23 | 06-Jan-24 | 12             | ▼ 06-Jan-24, Contractor's Blasting Assessment Report (CBAR) - VAT Tunnel (Be  | fore M         |
| 1.CBA.VAT.10000                               | Preperation of CBAR - Vol.1  | 0%                     | 0                 | 150                  |                 |                  | 09-Mar-23 | 05-Aug-23 | 1              | Preperation of CBAR - Vol.1   |                |
| 1.CBA.VAT.10010                               | ICE Check on CBAR - Vol.1  | 0%                     | 0                 | 21                   |                 |                  | 06-Aug-23 | 26-Aug-23 | 12             | ;□ ICE Check on CBAR - Vol.1  |                |
| 1.CBA.VAT.10020                               | PM Comment on CBAR - Vol.1   | 0%                     | 0                 | 28                   |                 |                  | 27-Aug-23 | 23-Sep-23 | 12             | □ PM Comment on CBAR - Vol.1  |                |
| 1.CBA.VAT.10030 I                             | Incorporate PM Comment on CBAR - Vol.1   | 0%                     | 0                 | 14                   |                 |                  | 24-Sep-23 | 07-Oct-23 | 12             | □ Incorporate PM Comment on CBAR - Vol.1  |                |
| 1.CBA.VAT.10040 I                             | Prepare & Submit to CoM, GEO, BD, Police & FSD CBAR - Vol.1                                    | 0%                     | 0                 | 14                   |                 |                  | 08-Oct-23 | 21-Oct-23 | 12             | □ Prepare & Submit to CoM, GEO, BD, Police & FSD CBAR - Vol.1   |                |
| 1.CBA.VAT.10050                               | Review & Comments from CoM, GEO, BD, Police & FSD on CBAR - Vol.1                              | 0%                     | 0                 | 28                   |                 |                  | 22-Oct-23 | 18-Nov-23 | 12             | Review & Comments from CoM, GEO, BD, Police & FSD on GBAR - Vol.1   |                |
|   |  |                        |                   |                      |                 |                  |           |           |                | □ Revise & Final Submission to CoM, GEO, BD, Police & FSD CBAR - Vol.1  |                |
|   | Revise & Final Submission to CoM, GEO, BD, Police & FSD CBAR - Vol.1                           | 0%                     | 0                 | 21                   |                 |                  | 19-Nov-23 | 09-Dec-23 | 12             |   |                |
| 1.CBA.VAT.10070                               | Review & Approval from CoM, GEO, BD, Police & FSD on CBAR - Vol.1                              | 0%                     | 0                 | 28                   |                 |                  | 10-Dec-23 | 06-Jan-24 | 12             | Review & Approval from CoM, GEO, BD, Police & FSD on CBAR - Vol.1   |                |
| ontractor's Blasting Asses                    | ssment Report (CBAR) - VAT Tunnel & Caverns (From MTR Vicinity) Vol.2                          |                        | 0                 | 401                  |                 |                  | 08-Apr-23 | 12-May-24 | 36             | ▼ 12-May-24; Contractor's Blasting Assessment Report (¢BAR) - VAT   | funnel         |
| 1.CBA.VAT.10080                               | Preperation of CBAR - Vol.2  | 0%                     | 0                 | 240                  |                 |                  | 08-Apr-23 | 03-Dec-23 | 2              | Preperation of CBAR - Vol.2   |                |
| 1.CBA.VAT.10090                               | ICE Check on CBAR - Vol.2  | 0%                     | 0                 | 28                   |                 |                  | 04-Dec-23 | 31-Dec-23 | 36             | ☐ ICE Check on CBAR - Vol.2   |                |
|   |  |                        | 1                 | 1                    | 1               |                  |           | 1         |                | ate Revision Checked App  | orov (s.       |
| 1st Programme B                               | -  |                        |                   |                      | 3               | 3 of 27          |           |           | Da<br>12-Dec-  | - ''  | oroveo         |
|   |  |                        |                   |                      |                 |                  |           |           | 12-Jan-        |   |                |
| Actual Work Remaining Work Critical Remaining | ♦ Milestone ▼ Summary  |                        |                   |                      | ·               |                  |           |           |                | 9   |                |

Monthly Programme January 2023

| ty ID                   | Activity Name   | Activity %<br>Complete                  | 1st Prog.<br>Dur. | Original Duration | 1st Prog. Start 1st Prog. Finish | Start       | Finish     | Total<br>Float | 2023 2024 2025 2026 20<br>10 15 14 14 14 14 14 14 14 14 14 14 14 14 14        |
|-------------------------|---|---|-------------------|-------------------|----------------------------------|-------------|------------|----------------|---|
| 21.CBA.VAT.10100        | PM Comment on CBAR - Vol.2  | 0%                                      | 0                 | 28                |                                  | 01-Jan-24   | 28-Jan-24  | 36             | DJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJI                                       |
|                         |   |   |                   |                   |                                  |             |            |                |   |
| 21.CBA.VAT.10110        | Incorporate PM Comment on CBAR - Vol.2  | 0%                                      | 0                 | 14                |                                  | 29-Jan-24   | 11-Feb-24  | 36             | □ Incorporate PM Comment on CBAR - Vol.2                                      |
| 21.CBA.VAT.10120        | Prepare & Submit to CoM, GEO, BD, Police & FSD CBAR - Vol.2                                 | 0%                                      | 0                 | 14                |                                  | 12-Feb-24   | 25-Feb-24  | 36             | □ Prépàre & Submit to CoM, GEO, BD, Police & FSD CBAR - Vol.2                 |
| 21.05/ CW 11.10120      | Tropare a dabrilla dollin, ded, bb, i dilectar de de de la vol.2                            | 070                                     |                   | '-                |                                  | 12 1 05 24  | 2010024    |                |   |
| 21.CBA.VAT.10130        | Review & Comments from CoM, GEO, BD, Police & FSD on CBAR - Vol.2                           | 0%                                      | 0                 | 28                |                                  | 26-Feb-24   | 24-Mar-24  | 36             | □ Review & Comments from CoM, GEO, BD, Police & F\$D on CBAR - Vol.2          |
| 04 CDA \/AT 40440       | Position 9 Final Culturation to CoM CEO DD Police 9 FCD CDAD 1/s12                          | 00/                                     | 0                 | 21                |                                  | OF Mar 24   | 14 Apr 24  | 36             | □ Revisé & Final Şubmission to CoM, GEO, BD, Police & FSD CBAR - Vol.2        |
| 21.CBA.VAT.10140        | Revise & Final Submission to CoM, GEO, BD, Police & FSD CBAR - Vol.2                        | 0%                                      | 0                 | 21                |                                  | 25-Mar-24   | 14-Apr-24  | 30             |   |
| 21.CBA.VAT.10150        | Review & Approval from CoM, GEO, BD, Police & FSD on CBAR - Vol.2                           | 0%                                      | 0                 | 28                |                                  | 15-Apr-24   | 12-May-24  | 36             | Review & Approval from CoM, GEO, BD, Police & FSD on CBAR - Vol.2             |
|                         | (DMO)   |   |                   | 074               |                                  | 00.4 00     | 10.1       |                | 10 Aug 24 Placiting Mathiad Statement /PMSV                                   |
| Blasting Method Stateme | ent (BMS)   |   | 0                 | 371               |                                  | 06-Aug-23   | 10-Aug-24  | 2              | ▼ 10-Auġ-24, Blasting Method Statement(BMS);                                  |
| Blasting Method Statem  | nent (BMS) - VAT Tunnel (Before MTR Vicinity) Vol.1   |   | 0                 | 221               |                                  | 06-Aug-23   | 13-Mar-24  | 1              | ▼ 13-Mar-24, Blasting Method Statement (BMS) - VAT Tunnel (Before MTR Vicinit |
|                         |   |   |                   |                   |                                  |             |            |                |   |
| 21.BMS.VAT.10000        | Prepare & Submit to PM BMS Vol.1  | 0%                                      | 0                 | 60                |                                  | 06-Aug-23   | 04-Oct-23  | 1              | Prepare & Submit to PM BMS Vol.1:   |
| 21.BMS.VAT.10010        | PM Review & Comment on BMS Vol.1  | 0%                                      | 0                 | 21                |                                  | 05-Oct-23   | 25-Oct-23  | 1              | PM Review & Comment on BMS Vol.1  |
|                         |   |   |                   |                   |                                  |             |            |                |   |
| 21.BMS.VAT.10020        | Incorporate PM comments & Submit to CoM BMS Vol.1   | 0%                                      | 0                 | 14                |                                  | 26-Oct-23   | 08-Nov-23  | 1              | ■ Incorporate PM comments & Submit to CoM BMS Vol.1                           |
| 21.BMS.VAT.10030        | Review & Comments from CoM on BMS Vol.1   | 0%                                      | 0                 | 28                |                                  | 09-Nov-23   | 06-Dec-23  | 1              | Review & Comments from CoM on BM\$ Vol:1                                      |
|                         |   | • |                   |                   |                                  | 00.101.20   | 00 200 20  |                |   |
| 21.BMS.VAT.10040        | Revise & Final Submission to CoM BMS Vol.1  | 0%                                      | 0                 | 14                |                                  | 07-Dec-23   | 20-Dec-23  | 1              | . ■ Revise & Final Submission to CoMI BMS Vol.1                               |
| 21.BMS.VAT.10050        | Review & Acceptance from CoM on BMS Vol.1   | 0%                                      | 0                 | 28                |                                  | 21-Dec-23   | 17-Jan-24  | 1              | Review & Acceptance from CoM on BMS Vol.1                                     |
| 21.DIVIO.VA1.10030      | Neview & Acceptance noning of bivio vol. I  | 070                                     |                   | 20                |                                  | 21-060-23   | 17-3411-24 | '              |   |
| 21.BMS.VAT.10060        | Blasting Permit Application - VAT Tunnel (Before MTR Vicinity)                              | 0%                                      | 0                 | 14                |                                  | 18-Jan-24   | 31-Jan-24  | 1              | ■ Blasting Permit Application - VAT Tunnel (Before MTR Vicinity)              |
| 24 DMC \ /AT 40070      | Comments from CoM on Plasting Deposit Application VAT Turnel (Defect MTD Visinity)          | 00/                                     |                   | 28                |                                  | 04 Fab 04   | 20 Fab 24  | 1              | Comments from CoM on Blasting Permit Application - VAT Tunnel (Before MTR \   |
| 21.BMS.VAT.10070        | Comments from CoM on Blasting Permit Application - VAT Tunnel (Before MTR Vicinity)         | 0%                                      | 0                 | 28                |                                  | 01-Feb-24   | 28-Feb-24  |                |   |
| 21.BMS.VAT.10080        | Site Inspection by CoM - VAT Tunnel (Before MTR Vicinity)                                   | 0%                                      | 0                 | 7                 |                                  | 29-Feb-24   | 06-Mar-24  | 1              | ■ Site Inspection by CoM VAT Tunnel (Before MTR Vicinity)                     |
|                         |   |   |                   |                   |                                  |             |            |                | I Land Set Dia Air le Dannie VAT Timbel (De Saie Astro Visibe)                |
| 21.BMS.VAT.10090        | Issue fof Blasting Permit - VAT Tunnel (Before MTR Vicinity)                                | 0%                                      | 0                 | 7                 |                                  | 07-Mar-24   | 13-Mar-24  | 1              | ■ Issue fof Blasting Permit - VAT Tunnel (Before MTR Vicinity)                |
| Blasting Method Statem  | nent (BMS) - VAT Tunnel & Caverns (From MTR Vicinity) Vol.2                                 |   | 0                 | 251               |                                  | 04-Dec-23   | 10-Aug-24  | 2              | ▼ 10-Aug-24, Blasting Method Statement (BMS) - VAT Tuhnel & Cave              |
|                         |   |   |                   |                   |                                  |             |            |                |   |
| 21.BMS.VAT.10100        | Prepare & Submit to PM BMS Vol.2  | 0%                                      | 0                 | 90                |                                  | 04-Dec-23   | 02-Mar-24  | 2              | Prepare & Submit to PM BMS Vol.2  |
| 21.BMS.VAT.10110        | PM Review & Comment on BMS Vol.2  | 0%                                      | 0                 | 21                |                                  | 03-Mar-24   | 23-Mar-24  | 2              | ■ PM Review & Comment;on BMS Vol.2  |
|                         |   |   |                   |                   |                                  |             |            |                |   |
| 21.BMS.VAT.10120        | Incorporate PM comments & Submit to CoM BMS Vol.2   | 0%                                      | 0                 | 14                |                                  | 24-Mar-24   | 06-Apr-24  | 2              | ■ Incorporate PM comments & Submit to CoM BMS Vol;2                           |
| 21.BMS.VAT.10130        | Review & Comments from CoM on BMS Vol.2   | 0%                                      | 0                 | 28                |                                  | 07-Apr-24   | 04-May-24  | 2              | Réview & Comments from GoM on BMS Vol.2                                       |
|                         |   | - · · ·                                 |                   |                   |                                  |             |            | _              |   |
| 21.BMS.VAT.10140        | Revise & Final Submission to CoM BMS Vol.2  | 0%                                      | 0                 | 14                |                                  | 05-May-24   | 18-May-24  | 2              | ■ Revise & Final Submission to CoM BMS Vol.2                                  |
| 21.BMS.VAT.10150        | Review & Acceptance from CoM on BMS Vol.2   | 0%                                      | 0                 | 28                |                                  | 19-May-24   | 15-Jun-24  | 2              | ■ Review & Acceptance from CoM on BMS Vol.2                                   |
| 21.DIVIO.VA1.10130      | TOTAL AND PRINCIPAL HOLD VOLZ   | U /0                                    |                   | 20                |                                  | 10-1viay-24 | 13-Jui1-24 |                |   |
| 21.BMS.VAT.10160        | Blasting Permit Application - VAT Tunnel & Caverns (From MTR Vicinity)                      | 0%                                      | 0                 | 14                |                                  | 16-Jun-24   | 29-Jun-24  | 2              | ■ Blasting Permit Application - VAT Tuhnel & Caverns (From MTR: Vicinity)     |
| 04 DMOV (AT 40470       | Output from Or Mar District Day 10 February 1000 (7)  | 001                                     |                   | 00                |                                  | 20 1 24     | 07.1.04    |                | Combigato from Mali Dissisted Descrit Abalisation VATT                        |
| 21.BMS.VAT.10170        | Comments from CoM on Blasting Permit Application - VAT Tunnel & Caverns (From MTR Vicinity) | 0%                                      | 0                 | 28                |                                  | 30-Jun-24   | 27-Jul-24  | 2              | Comments from CoM on Blasting Permit(Application - VAT Tunnel & C             |
|                         |   |   |                   |                   |                                  |             |            |                |   |
| 1st Programme           | e Baseline ♦  |   |                   |                   | 4 of 27                          |             |            | Dat            | ate Revision Checked Approve  |
| Actual Work             | Milestone   |   |                   |                   | 7 01 21                          |             |            | 12-Dec-2       |   |
|                         |   |   |                   |                   |                                  |             |            | 12- lan-2      | 23 Monthly Programme January 2023   |

Remaining Work

Critical Remaining Work

12-Jan-23

| y ID                       | Activity Name   | Activity %<br>Complete | 1st Prog.<br>Dur. | Original Duration | 1st Prog. Start | 1st Prog. Finish | Start       | Finish    | Total<br>Float | 2023 2024 2025 2026<br>NDJFMAMJJJASONDJFMAMJJJASONDJFMAMJJJASONDJF            |
|----------------------------|---|------------------------|-------------------|-------------------|-----------------|------------------|-------------|-----------|----------------|---|
| 21.BMS.VAT.10180           | Site Inspection by CoM - VAT Tunnel & Caverns (From MTR Vicinity)             | 0%                     | 0                 | 7                 |                 |                  | 28-Jul-24   | 03-Aug-24 |                | Site Inspection by CoM- VAI Tunnel & Caverns (From MTR Vicinity)              |
| 21.BMS.VAT.10190           | Issue fof Blasting Permit - VAT Tunnel & Caverns (From MTR Vicinity)          | 0%                     | 0                 | 7                 |                 |                  | 04-Aug-24   | 10-Aug-24 | 2              | I Issue fof Blasting Permit - VAT Tunnel & Caverns (From MTR Vicinit,         |
|                            | lead of Badang Forms Will Familia a Carollia (Figure 1)                       | 0,0                    |                   | ĺ                 |                 |                  |             | _         |                |   |
| ite Works                  |   |                        | 1283              | 1262              | 09-Dec-22       | 11-Apr-27        | 09-Dec-22 A | 11-Apr-27 | 1              |   |
| Site Wide Pre-Works        |   |                        | 0                 | 29                |                 |                  | 26-Jan-23   | 28-Feb-23 | 1191           | ▼▼ 28-Feb-23, Site Wide Pre-Works   |
| 21.PRW.G.10000             | Tree Survey at PAB Area   | 0%                     | 0                 | 15                |                 |                  | 26-Jan-23   | 11-Feb-23 | 24             | □ Tree Survey at PAB Area   |
| 21.PRW.G.10010             | Topographic Survey at PAB Area  | 0%                     | 0                 | 12                |                 |                  | 26-Jan-23   | 08-Feb-23 | 298            | □ Topographic Survey at PAB Area  |
| 21.PRW.G.10020             | Pre-Condition Survey Site Wide  | 0%                     | 0                 | 29                |                 |                  | 26-Jan-23   | 28-Feb-23 | 281            | Prè-Condition Survey Site Wide  |
| 21.PRW.G.10030             | TTA Implementation for the exposed work of dia. 1400mm pipe at Lion Rock Road | 0%                     | 0                 | 9                 |                 |                  | 26-Jan-23   | 04-Feb-23 | 385            | TTA Implementation for the exposed work of dia. 1400mm pipe at Lion Rock Road |
| 21.PRW.G.10050             | UU Detection at PAB & Portion 5   | 0%                     | 0                 | 12                |                 |                  | 26-Jan-23   | 08-Feb-23 | 1208           | □ UU Detection at PAB & Portion 5   |
| 21.PRW.G.10040             | Trial pit to exposed work of dia. 1400mmpipe at Lion Rock Road                | 0%                     | 0                 | 6                 |                 |                  | 06-Feb-23   | 11-Feb-23 | 385            | II Trial pit to exposed work of dia. 1400mm pipe at Lion Rock Road            |
| Relocation of Transit Nurs | sey   |                        | 202               | 175               | 09-Dec-22       | 28-Jun-23        | 09-Dec-22 A | 28-Jun-23 | 1384           | ▼ 28-Jun-23, Relocation of Transit Nursey                                     |
| SW-RTN-1010                | Liase with LCSD for facilities relocation arrangement                         | 45%                    | 60                | 60                | 09-Dec-22       | 06-Feb-23        | 09-Dec-22 A | 06-Feb-23 | 73             | Liase with LCSD for facilities relocation arrangement                         |
| SW-RTN-1030                | Hoarding erection and Site setup in Portion 4                                 | 0%                     | 10                | 10                | 09-Mar-23       | 18-Mar-23        | 09-Mar-23   | 18-Mar-23 | 43             | ☐ Hoarding erection and Site setup in Portion 4                               |
| SW-RTN-1020                | Access to Portion 4   | 0%                     | 0                 | 0                 | 09-Mar-23       |                  | 09-Mar-23   |           | 43             | Access to Portion 4   |
| SW-RTN-1040                | Civil construction works, e.g. water supply, in Portion 4                     | 0%                     | 45                | 45                | 19-Mar-23       | 02-May-23        | 19-Mar-23   | 02-May-23 | 43             | Civil construction works; e.g. water supply, in Portion 4                     |
| SW-RTN-1050                | Relocation of Transit Nursery and other LCSD's facilties to Portion 4         | 0%                     | 40                | 40                | 11-May-23       | 19-Jun-23        | 11-May-23   | 19-Jun-23 | 35             | Relocation of Transit Nursery and other LCSD's facilities to Portion 4        |
| SW-RTN-1060                | Test and Commissioning of water supply and LCSD's facilities                  | 0%                     | 3                 | 3                 | 20-Jun-23       | 22-Jun-23        | 20-Jun-23   | 22-Jun-23 | 1384           | I: Test and Commissioning of water supply and LCSD's facilities               |
| SW-RTN-1070                | Handover Portion 4 to LCSD for its management                                 | 0%                     | 6                 | 6                 | 23-Jun-23       | 28-Jun-23        | 23-Jun-23   | 28-Jun-23 | 1384           | Handover Portion 4 to LCSD for its management:                                |
| /la Chai Hang Fresh Wa     | ter Service Reservoir (MCHFWSR)   |                        | 360               | 333               | 09-Dec-22       | 03-Dec-23        | 09-Dec-22 A | 03-Dec-23 | 1226           | ▼ 03-Ded-23, Ma Chai Hang Fresh Water Service Reservoir (MCHFWSR)             |
| SW-P2-1000                 | Liase with WSD for works arrangement in MCHFWSR                               | 30%                    | 90                | 90                | 09-Dec-22       | 08-Mar-23        | 09-Dec-22 A | 08-Mar-23 | 1226           | Liase with WSD:for works arrangement in MCHFWSR                               |
| SW-P2-1010                 | Access to Portion 2   | 0%                     | 0                 | 0                 | 09-Mar-23       |                  | 09-Mar-23   |           | 1316           | Access to Portion 2   |
| SW-P2-1020                 | Ground treatment works in Portion 2   | 0%                     | 180               | 180               | 07-Jun-23       | 03-Dec-23        | 07-Jun-23   | 03-Dec-23 | 1226           | Ground treatment works in Portion 2   |
| Portal Ancillary Building  |   |                        | 1245              | 1245              | 28-Jan-23       | 11-Apr-27        | 28-Jan-23   | 11-Apr-27 | 1              |   |
| Preparation Works & Sit    | e Clearance   |                        | 174               | 174               | 28-Jan-23       | 20-Jul-23        | 28-Jan-23   | 20-Jul-23 | 242            | ▼ 20-Jul-23, Preparation Works & Site Clearance                               |
| SW-PAB1000                 | XP and TTAApplication   | 0%                     | 75                | 75                | 28-Jan-23       | 12-Apr-23        | 28-Jan-23   | 12-Apr-23 | 0              | XP and TTAApplication   |
| SW-PAB1020                 | Tree Survey at Portion 3  | 0%                     | 42                | 42                | 09-Mar-23       | 19-Apr-23        | 09-Mar-23   | 19-Apr-23 | 3              | Tree Survey at Pontion 3:   |
| SW-PAB1010                 | Access to Portion 3   | 0%                     | 0                 | 0                 | 09-Mar-23       |                  | 09-Mar-23   |           | 3              | 🕏 Access to Portion 3   |
|                            |   |                        |                   |                   |                 |                  |             |           |                |   |
| 1st Programme              | Baseline ♦ 1st Programme Baseline Milestone                                   |                        |                   |                   | 5               | 5 of 27          |             |           |                | Pate Revision Checked Approve   |
| Actual Work                | ♦ Milestone   |                        |                   |                   |                 |                  |             |           | 12-De          | <u> </u>  |
|                            |   |                        |                   |                   |                 |                  |             |           | 12-Jar         | n-23 Monthly Programme January 2023   |
| Remaining Wo               | rk Summary  | l                      |                   |                   |                 |                  |             |           | 12 0ai         | i-25     INDITION   |

Monthly Programme January 2023

| y ID                     | Activity Name  | Activity %<br>Complete | 1st Prog.<br>Dur. | Original<br>Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish      | Total<br>Float | 2023   2024   2025   2026   ND JFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJ               |
|--------------------------|--|------------------------|-------------------|----------------------|-----------------|------------------|-----------|-------------|----------------|--|
| SW-PAB1030               | Hoarding Erection and Site Setup   | 0%                     | 10                | 10                   | 13-Apr-23       | 22-Apr-23        | 13-Apr-23 | 22-Apr-23   | 0              |  |
| O)A/ DAD4040             | T. T. 4. 4. 101 01   | 00/                    | 40                | 40                   | 00.4.00         | 40.1.00          | 00.4.00   | 40.1.00     |                | Tree Treatment and Site Clearance  |
| SW-PAB1040               | Tree Treatment and Site Clearance  | 0%                     | 49                | 49                   | 23-Apr-23       | 10-Jun-23        | 23-Apr-23 | 10-Jun-23   | 0              | I ree Treatment and Site Clearance   |
| SW-PAB1050               | Survey, Trial pit, UU detection, Condition survey  | 0%                     | 40                | 40                   | 11-Jun-23       | 20-Jul-23        | 11-Jun-23 | 20-Jul-23   | 242            | Survey, Trial pit, UU:detection, Condition survey  |
| Foundation, Sub-Struc    | ture and Retaining Structure   |                        | 579               | 579                  | 07-Jun-23       | 20-May-25        | 07-Jun-23 | 20-May-25   | 246            | ▼ 20-May-25, Foùndation, Sùb-Structùre ahd R   |
|                          |  |                        |                   |                      |                 | ·                |           |             |                |  |
| Northern Side of PAB (R  | HS) (Zone 2)   |                        | 356               | 356                  | 07-Jun-23       | 15-Aug-24        | 07-Jun-23 | 15-Aug-24   | 469            | ▼ 15-Aug-24, Northern Side of PAB (RHS) (Zone 2)   |
| SW-PAB-2110              | Implement TTA to shift Lion Rock Road traffic westward to provide sufficent space for pipe pile installation                 | 0%                     | 2                 | 2                    | 07-Jun-23       | 08-Jun-23        | 07-Jun-23 | 08-Jun-23   | 293            | I implement TTA to shift Lion Rock Road traffic westward to provide sufficent space for pipe pile installa |
| SW-PAB-2120              | Removal of road pavement and site clearance, surveying, UU detection, diversion (if any)                                     | 0%                     | 20                | 20                   | 09-Jun-23       | 28-Jun-23        | 09-Jun-23 | 28-Jun-23   | 361            | Removal of road pavement and site clearance, surveying, UU detection, diversion (if any)                   |
|                          | , , ,  |                        |                   |                      |                 |                  |           |             |                |  |
| SW-PAB-2000              | Construction of Concrete Block Wall and Forma Working Platform at +85mPD (7d+3d) (start after 8no pipe pile by 1rig)         | 0%                     | 10                | 10                   | 20-Jun-23       | 03-Jul-23        | 20-Jun-23 | 03-Jul-23   | 28             | Construction of Concrete Block Wall and Forma Working Platform at +85mPD (7d+3d) (start after t            |
| SW-PAB-2010              | Soil Excavation for Southern Ramp (Total: 2689m3) (PR=180m3/d)   | 0%                     | 15                | 15                   | 20-Jun-23       | 08-Jul-23        | 20-Jun-23 | 08-Jul-23   | 285            | □ Soil Excavation for Southern Ramp (Total: 2689rn3) (PR=180m3/d)  |
| SW-PAB-2150              | linstallation of Pipe Plile (273dia) along Lion Rock Road (Total: 53no.) (PR=1d/pile/rig) (2rigs)                            | 0%                     | 33                | 33                   | 10-Jul-23       | 16-Aug-23        | 10-Jul-23 | 16-Aug-23   | 285            | ☐ linstallation of Pipe Plile (273dia) along Lion Rock Road (Total:53no.) (PR=1d/pile/rig) (2rigs) pli     |
|                          | plus 1 wk for grouting   |                        |                   |                      |                 |                  |           | .5 , Mg 20  |                |  |
| SW-PAB-2020              | Installation of King Post (Total: 3no) (PR=2.5d/pile/rig) (2 rigs)   | 0%                     | 5                 | 5                    | 24-Jul-23       | 28-Jul-23        | 24-Jul-23 | 28-Jul-23   | 11             | I Installation of King Post (Total: 3no) (PR≑2:5d/pile/rig) (2 rigs)                                       |
| SW-PAB-2030              | Installation of Plpe Pile at RHS of Portal (Total: 15no) (PR=2.5d/pile/rig) (2 rigs) + 3d                                    | 0%                     | 22                | 22                   | 29-Jul-23       | 23-Aug-23        | 29-Jul-23 | 23-Aug-23   | 11             | ☐ Installation of Pipe Pile at RHS of Portal (Total: 15no) (PR=2.5d/pile/rig) (2 rigs) + 3d remobilizat    |
| SW-PAB-2040              | remobilization  Erection of Steel Platform for Bored Pile Construction   | 0%                     | 22                | 22                   | 24-Aug-23       | 18-Sep-23        | 24-Aug-23 | 18-Sep-23   | 279            | ☐ Erection of Steel Platform for Bored Pile Construction   |
| OW 1715 2040             | Electron electrication in period i lie constitución  | 070                    | LL                |                      | 24 / lug 20     | 10 GGP 20        | 247 kg 20 | 10 OCP 20   | 210            |  |
| SW-PAB-2050              | Plant mobilization and Installation of Bored Pile on Steel Platform (Total: 4no) (PR=22d/pile/rig) (1 rigs)                  | 0%                     | 88                | 88                   | 27-Dec-23       | 15-Apr-24        | 27-Dec-23 | 15-Apr-24   | 199            | Plant mobilization and Installation of Bored Pile on Steel Platform (Total: 4no)                           |
| SW-PAB-2060              | Plant Demobilization and Removal of Steel Platform   | 0%                     | 7                 | 7                    | 16-Apr-24       | 23-Apr-24        | 16-Apr-24 | 23-Apr-24   | 473            | Plant Demobilization and Removal of Steel Platform   |
| SW-PAB-2070              | Soil Excavation to Formation Level and ELS Installation (Total: 2217m3) (PR=200m3/d) +8d ELS                                 | 0%                     | 19                | 19                   | 24-Apr-24       | 17-May-24        | 24-Apr-24 | 17-May-24   | 473            | Soil Excavation:to:Formation Level and ELS Installation (Total::2217m3) (F                                 |
| OVV-1 AB-2010            | Coll Excavation to Formation Edverand ELECTRISIALIST (Fotal. 22 FFITIS) (FTV=200116/d) Fod ELECTRISIALIST (FOTAL. 22 FFITIS) | 070                    | 15                | 13                   | 24-7401-24      | 17-Way-24        | 2+7-μι-2+ | 17-Way-24   | 475            |  |
| SW-PAB-2080              | Pile Test @ Grid BB-EE (Total: 4no.)   | 0%                     | 30                | 30                   | 18-May-24       | 16-Jun-24        | 18-May-24 | 16-Jun-24   | 578            | □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□  |
| SW-PAB-2100              | Construction of Retainig Wall RW3 and Backfill work  | 0%                     | 90                | 90                   | 18-May-24       | 15-Aug-24        | 18-May-24 | 15-Aug-24   | 578            | Construction of Retainig Wall RW3 and Backfill work  |
| SW-PAB-2090              | Trim Pile Head, Construction of Pile Cap @ Grid BB-EE, 3m thk  | 0%                     | 60                | 60                   | 17-Jun-24       | 15-Aug-24        | 17-Jun-24 | 15-Aug-24   | 578            | Trim Pile:Head, Construction of Pile Cap @ Grid:BB-EE, 3m;thk  |
| 3VV-I AD-2090            | THIT IETERA, CONSTITUTION IE CAP & CHA BELL, SHI UK  | 0 70                   | 00                | 00                   | 17-Juli-24      | 13-Aug-24        | 17-Jun-24 | 13-Aug-24   | 376            |  |
| Northern Side of PAB (LI | HS) (Zone 1)   |                        | 570               | 570                  | 17-Jun-23       | 20-May-25        | 17-Jun-23 | 20-May-25   | 201            | ▼ 20-May-25, Northern Side of PAB (LHS) (Zone  |
| SW-PAB-3000              | Installation of mini-pile for support steel platform (Total: 22no) (PR=1.5d/pile/rig) (1rigs)                                | 0%                     | 33                | 33                   | 17-Jun-23       | 27-Jul-23        | 17-Jun-23 | 27-Jul-23   | 376            | lnstallation of mini-pile for support:steel platform (Total: 22no) (PR=1.5d/pile/rig) (1rigs)              |
| SW-PAB-3010              | Construction of RC footing on mini-pile  | 0%                     | 24                | 24                   | 14-Jul-23       | 10-Aug-23        | 14-Jul-23 | 10-Aug-23   | 376            | □ :Construction of :RC footing on mini-pile  |
| OW 1712 00 10            | Constitution of the locality of them piece   | 070                    | 2-7               |                      | 14 001 20       | 10 / lug 20      | 14 001 20 | 10 / lag 20 | 070            |  |
| SW-PAB-3020              | Installation of Sheet Pile (Total: 10m, 240m2) (PR=40m2/d/piler) (1 piler)   | 0%                     | 6                 | 6                    | 21-Jul-23       | 27-Jul-23        | 21-Jul-23 | 27-Jul-23   | 199            | I Installation of Sheet Pile (Total: 10m, 240m2) (PR÷40m2/d/piler) (1 piler)                               |
| SW-PAB-3040              | Installation of Sheet Pile (Total: 15m, 360m2) (PR=40m2/d/piler) (1 piler)   | 0%                     | 9                 | 9                    | 28-Jul-23       | 07-Aug-23        | 28-Jul-23 | 07-Aug-23   | 199            | Installation of Sheet Pile (Total: 15m, 360m2) (PR=40m2/d/piler) (1 piler)                                 |
| SW-PAB-3030              | Soil Excavation to reach 1:8 fall for King Post Installation   | 0%                     | 6                 | 6                    | 28-Jul-23       | 03-Aug-23        | 28-Jul-23 | 03-Aug-23   | 296            | Soil Excavation to reach 1:8 fall for King Post Installation   |
| O11 1 / ID-0000          | Son Exceptation to rough 1.0 fail for range 1 out installation   | O 70                   |                   |                      | 20-0ur20        | 00 Aug-20        | 20-0ur20  | _           |                |  |
| SW-PAB-3050              | Soil Excavation and ELS installation - Stage 1 (Total: 2700m3) (PR=180m3/d) + 8d ELS   | 0%                     | 23                | 23                   | 29-Aug-23       | 23-Sep-23        | 29-Aug-23 | 23-Sep-23   | 338            | Soil Excavation and ELS installation - Stage 1 (Total: 2700m3) (PR=180m3/d) + 8d ELS                       |
| SW-PAB-3100              | Installation of Remaining Sheet Pile (Total: 42m, 930m2) (PR=40m2/d/piler) (1 piler)   | 0%                     | 24                | 24                   | 29-Aug-23       | 25-Sep-23        | 29-Aug-23 | 25-Sep-23   | 555            | ☐ Installation of Remaining Sheet Pile (Total: 42m, 930m2) (PR=40m2/d/piler) (1 piler)                     |
|                          |  |                        |                   |                      |                 |                  |           |             |                |  |
| 1ct Drogramm             | ne Baseline 💠 💠 1st Programme Baseline Milestone   |                        |                   |                      |                 | 2 of 27          |           |             | Г              | Date Revision Checked Approve  |
| Actual Work              | e Baseline   |                        |                   |                      | (               | 6 of 27          |           |             | 12-De          |  |
| / NOLUGII V V O I N      | ▼ ▼ IVIIIOOLOTIO   | 1                      |                   |                      |                 |                  |           |             | 12-Jar         | 1 -  |

Critical Remaining Work

|                           |   | Activity % Complete | 1st Prog.<br>Dur. | . Original<br>Duration | ··        | 1st Prog. Finish | Start     | Finish    | Total<br>Float |   |
|---------------------------|---|---------------------|-------------------|------------------------|-----------|------------------|-----------|-----------|----------------|---|
| SW-PAB-3060               | Erection of Steel Platform for Bored Pile Construction  | 0%                  | 24                | 24                     | 25-Sep-23 | 25-Oct-23        | 25-Sep-23 | 25-Oct-23 | 338            | NDJFMAMJJASONDJFMAMJJASONDJFMAMJJASOND.  Erection of Steel Platform for Bored Pile Construction |
| SW-PAB-3070               | Installation of Bored Pile on Steel Platform (Total: 7no) (PR=22d/pile/rig) (1 rigs)          | 0%                  | 154               | 154                    | 16-Apr-24 | 19-Oct-24        | 16-Apr-24 | 19-Oct-24 | 199            | Installation of Bored Pile on Steel Platform (Total: 7no) (PR=2                                 |
| SW-PAB-3070a              | Pile Test @ Grid U-BB (Total: 7no.)   | 0%                  | 66                | 66                     | 17-Sep-24 | 21-Nov-24        | 17-Sep-24 | 21-Nov-24 | 249            | Pile Test @ Grid U-BB (Total:7no:)  |
| SW-PAB-3080               | Removal of Steel Platform   | 0%                  | 12                | 12                     | 22-Nov-24 | 05-Dec-24        | 22-Nov-24 | 05-Dec-24 | 199            | ☐ Removal of Steel Platform   |
| SW-PAB-3110               | Soil Excavation to Formation Level and ELS Installation (Total: 5000m3) (PR=300m3/d) + 8d ELS | 0%                  | 25                | 25                     | 06-Dec-24 | 07-Jan-25        | 06-Dec-24 | 07-Jan-25 | 199            | Soil Excavation to Formation Level and ELS Installation   |
| SW-PAB-3130               | Trim Pile Head, Construction of Pile Cap @ Grid U-BB, 3m thk from FL 77.83mPD                 | 0%                  | 90                | 90                     | 20-Feb-25 | 20-May-25        | 20-Feb-25 | 20-May-25 | 244            | Trim Pile Head, Construction of Pile Cap @:0  |
| Southern Side of PAB      |   |                     | 499               | 499                    | 08-Aug-23 | 10-Apr-25        | 08-Aug-23 | 10-Apr-25 | 242            | ▼ 10-Apr-25, Southern Side of PAB   |
|                           |   |                     |                   |                        |           |                  |           |           |                |   |
| SW-PAB-4000               | Installation of Sheet Pile (Total: 60m, 720m2) (PR=40m2/d/piler)                              | 0%                  | 18                | 18                     | 08-Aug-23 | 28-Aug-23        | 08-Aug-23 | 28-Aug-23 | 199            | □ Installation of Sheet Pile:(Total: 60m, 720m2):(PR=40m2/d/piler)                              |
| SW-PAB-4010               | Construction of Concrete Block Wall and Forma Working Platform at +84mPD (26d + 6d)           | 0%                  | 32                | 32                     | 29-Aug-23 | 06-Oct-23        | 29-Aug-23 | 06-Oct-23 | 199            | Construction of Concrete Block Wall and Form a Working Platform at +84mPD (26d + 6d)            |
| SW-PAB-4020               | Installation of Bored Pile on Workingl Platform (Total: 3no) (PR=22d/pile/rig) (1 rigs)       | 0%                  | 66                | 66                     | 07-Oct-23 | 23-Dec-23        | 07-Oct-23 | 23-Dec-23 | 199            | Installation of Bored Pile on Workingl Platform (Total: 3no) (PR=22d/pile/rig) (1 rigs)         |
| SW-PAB-4030               | Pile Test @ Grid U-BB (Total: 3no.)   | 0%                  | 50                | 50                     | 11-Dec-23 | 29-Jan-24        | 11-Dec-23 | 29-Jan-24 | 619            | Pile Test @ Grid U-BB (Total: 3no.)   |
| SW-PAB-4040               | Removal of Platform and Concrete Block  | 0%                  | 21                | 21                     | 30-Jan-24 | 24-Feb-24        | 30-Jan-24 | 24-Feb-24 | 502            | Removal of Platform and Concrete Block  |
| SW-PAB-4050               | Construction of Retaining Wall RW1 and RW2 by Open Cut Method                                 | 0%                  | 90                | 90                     | 25-Feb-24 | 24-May-24        | 25-Feb-24 | 24-May-24 | 619            | Construction of Retaining Wall RW1 and RW2 by Open Cut Method                                   |
| SW-PAB-4060               | Installation of Bored Pile on ground at FEL (Total: 3no) (PR=22d/pile/rig) (1 rigs)           | 0%                  | 66                | 66                     | 14-Dec-24 | 07-Mar-25        | 14-Dec-24 | 07-Mar-25 | 199            | Installation of Bored Pile on ground at FEL (Total: 3   |
| SW-PAB-4070               | Pile Test @ Grid U-BB (Total: 3no.)   | 0%                  | 50                | 50                     | 20-Feb-25 | 10-Apr-25        | 20-Feb-25 | 10-Apr-25 | 244            | Pile Test @ Grid U-BB (Total: 3no.)   |
| Structure Works           |   |                     | 986               | 986                    | 04-Aug-23 | 26-Nov-26        | 04-Aug-23 | 26-Nov-26 | 1              | ₹ 26  |
| Building Structure - Grid | d No. U - BB  |                     | 727               | 727                    | 04-Aug-23 | 13-Jan-26        | 04-Aug-23 | 13-Jan-26 | 260            | ▼ 13-Jan-26, Building Structu   |
| SW-PAB-S2000              | Installation of Tower Crane   | 0%                  | 5                 | 5                      | 04-Aug-23 | 09-Aug-23        | 04-Aug-23 | 09-Aug-23 | 354            | Il Installation of Tower Crane  |
| SW-PAB-S3000              | Commencement of Building Structure  | 0%                  | 0                 | 0                      | 21-May-25 |                  | 21-May-25 |           | 244            | Commencement of Building Structure  |
| SW-PAB-S3010              | Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold       | 0%                  | 35                | 35                     | 21-May-25 | 24-Jun-25        | 21-May-25 | 24-Jun-25 | 244            | □ Column, Beam & Floor Slab @:Ground Flo  |
| SW-PAB-S3020              | erection  RC Column and RC Wall @ above Ground Floor  | 0%                  | 26                | 26                     | 25-Jun-25 | 20-Jul-25        | 25-Jun-25 | 20-Jul-25 | 244            | ☐ RC:Column and RC Wall @ above Gro   |
| SW-PAB-S3030              | RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection                          | 0%                  | 35                | 35                     | 21-Jul-25 | 24-Aug-25        | 21-Jul-25 | 24-Aug-25 |                | RC Beam& Floor Slab @ First Floor   |
|                           |   |                     |                   |                        |           |                  |           |           |                |   |
| SW-PAB-S3040              | RC Column and RC Wall @ above First Floor   | 0%                  | 26                | 26                     | 25-Aug-25 |                  | 25-Aug-25 | 19-Sep-25 |                | □ RC:Columin and RC Wall @ above  |
| SW-PAB-S3050              | RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection                                  | 0%                  | 35                | 35                     | 20-Sep-25 | 24-Oct-25        | 20-Sep-25 | 24-Oct-25 | 244            | RC Beam& Floor Slab @ Roof+   |
| SW-PAB-S3060              | RC Column and RC Wall @ above Roof  | 0%                  | 14                | 14                     | 25-Oct-25 | 07-Nov-25        | 25-Oct-25 | 07-Nov-25 | 318            | ☐ RC Column and RC Wall @ abo   |
| SW-PAB-S3080              | RC Stairs   | 0%                  | 21                | 21                     | 25-Oct-25 | 14-Nov-25        | 25-Oct-25 | 14-Nov-25 | 378            | ☐ RC Stairs   |
| SW-PAB-S3070              | Roof Canopy @ +95.8mPD incl. scaffold erection  | 0%                  | 21                | 21                     | 08-Nov-25 | 28-Nov-25        | 08-Nov-25 | 28-Nov-25 | 318            | ☐ RoofCanopy@:+95:8mPD:ii   |
|                           |   | <u> </u>            |                   | 1                      | 1         |                  | 1         | 1         |                | Date Revision Checked Approv  |
| _                         | ne Baseline   1st Programme Baseline Milestone  Milestone                                     |                     |                   |                        |           | 7 of 27          |           |           | 12-De          |   |
| Actual Work               |   | 1                   |                   |                        |           |                  |           |           | 1,2,00         | - procerogrammo   |

| )                          | Activity Name  | Activity % Complete | 1st Prog. | Original Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float | 2023 2024   |   | 2026                  |
|----------------------------|--|---------------------|-----------|-------------------|-----------------|------------------|-----------|-----------|----------------|---|---|-----------------------|
| SW-PAB-S3090               | Waterproofing works on roof  | 0%                  | 18        | 18                | 27-Dec-25       |                  | 27-Dec-25 | 13-Jan-26 |                | ND JFMAMJJASONDJFMAMJJA                               |   | ofing works on roc    |
| allalla a Otara tama Calal | NV PD FF   |                     | 050       | 050               | 40.14           | 00.11 00         | 40.14 00  | 00.11     |                |   |   | 26                    |
| Building Structure - Grid  | 1 NO. BB - EE  |                     | 256       | 256               | 16-Mar-26       | 26-Nov-26        | 16-Mar-26 | 26-Nov-26 | 1              |   | - : : : : : : : : : : : : : : : : : : : | 26                    |
| SW-PAB-S4000               | Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection | 0%                  | 35        | 35                | 16-Mar-26       | 19-Apr-26        | 16-Mar-26 | 19-Apr-26 | 1              |   | Cc                                      | olumn, Beam & Fl      |
| SW-PAB-S4010               | RC Column and RC Wall @ above Ground Floor   | 0%                  | 26        | 26                | 20-Apr-26       | 15-May-26        | 20-Apr-26 | 15-May-26 | 1              |   | i e                                     | RC Column and f       |
| SW-PAB-S4020               | RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection                             | 0%                  | 35        | 35                | 16-May-26       | 19-Jun-26        | 16-May-26 | 19-Jun-26 | 1              |   | •                                       | RC Beam & Fk          |
| SW-PAB-S4030               | RC Column and RC Wall @ above First Floor  | 0%                  | 26        | 26                | 20-Jun-26       | 15-Jul-26        | 20-Jun-26 | 15-Jul-26 | 1              |   |   | RC Column             |
| SW-PAB-S4040               | RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection                                     | 0%                  | 35        | 35                | 16-Jul-26       | 19-Aug-26        | 16-Jul-26 | 19-Aug-26 | 1              |   |   | RC Beam               |
| SW-PAB-S4050               | RC Column and RC Wall @ above Roof   | 0%                  | 14        | 14                | 20-Aug-26       | 02-Sep-26        | 20-Aug-26 | 02-Sep-26 | 1              |   |   | RC Colu               |
| SW-PAB-S4070               | RC Stairs  | 0%                  | 21        | 21                | 20-Aug-26       | 09-Sep-26        | 20-Aug-26 | 09-Sep-26 | 79             |   |   | RC Stai               |
| SW-PAB-S4060               | Roof Canopy @ +95.8mPD incl. scaffold erection   | 0%                  | 21        | 21                | 03-Sep-26       | 23-Sep-26        | 03-Sep-26 | 23-Sep-26 | 1              |   |   | ■ Roof C              |
| SW-PAB-S4080               | Installation of Photovoltaic Panel   | 0%                  | 18        | 18                | 22-Oct-26       | 08-Nov-26        | 22-Oct-26 | 08-Nov-26 | 1              |   |   | Inst                  |
| SW-PAB-S4090               | Waterproofing works on roof  | 0%                  | 18        | 18                | 09-Nov-26       | 26-Nov-26        | 09-Nov-26 | 26-Nov-26 | 1              |   |   | ■ w                   |
| SW-PAB-S4100               | Complete RC Structure  | 0%                  | 0         | 0                 |                 | 26-Nov-26        |           | 26-Nov-26 | 1              |   |   | <b>\$</b> c           |
| BWF/ MEP/ FS/ Fitout       | t Works  |                     | 595       | 595               | 25-Aug-25       | 11-Apr-27        | 25-Aug-25 | 11-Apr-27 | 1              |   | · · · · · · · · · · · · · · · · · · ·   |                       |
| or Grid No. U - BB         |  |                     | 409       | 409               | 25-Aug-25       | 07-Oct-26        | 25-Aug-25 | 07-Oct-26 | 78             |   | · · · · · · · · · · · · · · · · · · ·   | 07-0                  |
| G/F - Transformer Room     | n & LV Switch Room   |                     | 409       | 409               | 25-Aug-25       | 07-Oct-26        | 25-Aug-25 | 07-Oct-26 | 48             |   | · · · · · · · · · · · · · · · · · · ·   | 07-0                  |
| SW-PAB-A5010               | TR &LVSR - Falsework Removal/ Preparation for ABWF & MEP Works                                   | 0%                  | 35        | 35                | 25-Aug-25       | 28-Sep-25        | 25-Aug-25 | 28-Sep-25 | 268            |   | ☐ TR &LVSR - False                      | :work Removal/I       |
| SW-PAB-A5020               | TR &LVSR - ABWF Deg1 - Deg3  | 0%                  | 38        | 38                | 29-Sep-25       | 05-Nov-25        | 29-Sep-25 | 05-Nov-25 | 268            |   | 🗀 TR &LVSR - AE                         | 3WF Deg1 - Deg        |
| SW-PAB-A5030               | TR &LVSR - BS 1st Fix - 3rd Fix  | 0%                  | 38        | 38                | 13-Oct-25       | 19-Nov-25        | 13-Oct-25 | 19-Nov-25 | 268            |   | TR &LVSR - B                            | \$\$ 1st Fix - 3rd Fi |
| SW-PAB-A5040               | TR &LVSR - CLP Inspection and Defect Rectification   | 0%                  | 12        | 12                | 20-Nov-25       | 01-Dec-25        | 20-Nov-25 | 01-Dec-25 | 268            |   | ☐ TR &LVSR +                            | CLP Inspection a      |
| SW-PAB-A5050               | TR &LVSR - Installation of Transformer and T&C by CLP  | 0%                  | 90        | 90                | 02-Dec-25       | 01-Mar-26        | 02-Dec-25 | 01-Mar-26 | 268            |   | <b>□</b> TR&L                           | VSR - Installation    |
| SW-PAB-A5060               | TR &LVSR - Completion of CLP Cable Laying Leading to PAB   | 0%                  | 30        | 30                | 08-Sep-26       | 07-Oct-26        | 08-Sep-26 | 07-Oct-26 | 48             |   |   | □ TR&I                |
| SW-PAB-A5070               | TR &LVSR - Power-on Date   | 0%                  | 0         | 0                 |                 | 07-Oct-26        |           | 07-Oct-26 | 48             |   |   | <b>\$</b> TR &I       |
| 1/F - Genset Room          |  |                     | 152       | 152               | 25-Oct-25       | 25-Mar-26        | 25-Oct-25 | 25-Mar-26 | 244            |   | ▼ 25-1                                  | //ar-26, 1/F - Gen    |
| SW-PAB-A5110               | Genset Rm - Falsework Removal/ Preparation for ABWF & MEP Works                                  | 0%                  | 35        | 35                | 25-Oct-25       | 28-Nov-25        | 25-Oct-25 | 28-Nov-25 | 244            |   | ☐ Genset Rm-                            | Falsework Rem         |
| SW-PAB-A5120               | Genset Rm - Concrete Plinth, Waterproofing & Test  | 0%                  | 12        | 12                | 29-Nov-25       | 10-Dec-25        | 29-Nov-25 | 10-Dec-25 | 244            |   | ☐ :Genset Rm                            | - Concrete Plinth     |
| SW-PAB-A5130               | Floor Screeding, Wall Plastering & Doors & Wall Lining   | 0%                  | 28        | 28                | 11-Dec-25       | 07-Jan-26        | 11-Dec-25 | 07-Jan-26 | 244            |   | ☐ Floor Scre                            | eding, Wall Plast     |
|                            |  |                     |           |                   |                 |                  |           |           |                |   |   |                       |
| 1st Programm               | ne Baseline 💠 💠 1st Programme Baseline Milestone   |                     |           |                   |                 | 8 of 27          |           |           | -              | Date Revision   | ion Checked                             | Approv                |
|                            |  |                     |           |                   |                 |                  |           |           | 1177 🗅         |   |   | 1                     |
| Actual Work                | ♦ Milestone  |                     |           |                   |                 |                  |           |           | 12-De          | c-22 First Programme n-23 Monthly Programme January 2 |   |                       |

| )                       | Activity Name   | Activity % Complete | 1st Prog. | Original | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float | 2023 2024 2025                      | 2026   |                           |
|-------------------------|---|---------------------|-----------|----------|-----------------|------------------|-----------|-----------|----------------|-------------------------------------|--|---------------------------|
| SW-PAB-A5140            | MEP Works   | 0%                  | 28        | 28       | 08-Jan-26       | 04-Feb-26        | 08-Jan-26 | 04-Feb-26 |                | NDJFMAMJJASONDJFMAMJJASONDJFMAMJJAS | NDJFMAMJJ<br>MEP Works                       |                           |
|                         |   |                     |           |          |                 |                  |           |           |                |                                     |  |                           |
| SW-PAB-A5150            | Move-In Generator Equipments  | 0%                  | 7         | 7        | 05-Feb-26       | 11-Feb-26        | 05-Feb-26 | 11-Feb-26 | 244            |                                     | I Move-In G                                  | enerator Equip            |
| SW-PAB-A5160            | Final Coat to Wall & Sealer to Floor  | 0%                  | 14        | 14       | 12-Feb-26       | 25-Feb-26        | 12-Feb-26 | 25-Feb-26 | 244            |                                     | ☐ Final Coat                                 | to Wall & Sea             |
| SW-PAB-A5170            | Install Generator Equipments & Testing  | 0%                  | 28        | 28       | 26-Feb-26       | 25-Mar-26        | 26-Feb-26 | 25-Mar-26 | 244            |                                     | ☐ Install G                                  | enerator Equi             |
| Other Rooms             |   |                     | 187       | 187      | 25-Aug-25       | 27-Feb-26        | 25-Aug-25 | 27-Feb-26 | 300            |                                     | 27-Feb-20                                    | ∂ Other Room              |
| Other Rooms             |   |                     | 107       | 107      | 25-Aug-25       | 27-rep-20        | 25-Aug-25 | 27-rep-20 | 300            |                                     |  |                           |
| SW-PAB-A5210            | G/F - Falsework Removal/ Preparation for ABWF & MEP Works                     | 0%                  | 42        | 42       | 25-Aug-25       | 05-Oct-25        | 25-Aug-25 | 05-Oct-25 | 361            |                                     | G/F - Falsework Ren                          | noval/Prepara             |
| SW-PAB-A5220            | G/F - ABWF Deg1 - Deg3  | 0%                  | 70        | 70       | 06-Oct-25       | 14-Dec-25        | 06-Oct-25 | 14-Dec-25 | 361            |                                     | G/F-ABWF De                                  | g1 - Deg3                 |
| SW-PAB-A5230            | G/F - BS 1st Fix - 3rd Fix  | 0%                  | 70        | 70       | 20-Oct-25       | 28-Dec-25        | 20-Oct-25 | 28-Dec-25 | 361            |                                     | G/F - BS 1st Fi                              | x - 3rd Fix               |
|                         |   |                     |           |          |                 |                  |           |           |                |                                     |  |                           |
| SW-PAB-A5240            | 1/F - Falsework Removal/ Preparation for ABWF & MEP Works                     | 0%                  | 42        | 42       | 25-Oct-25       | 05-Dec-25        | 25-Oct-25 | 05-Dec-25 | 300            |                                     | 1/F - Falsework I                            | Removal/ Pre <sub>l</sub> |
| SW-PAB-A5250            | 1/F - ABWF Deg1 - Deg3  | 0%                  | 70        | 70       | 06-Dec-25       | 13-Feb-26        | 06-Dec-25 | 13-Feb-26 | 300            |                                     | 1/F - ABWF                                   | Deg1 - Deg3               |
| SW-PAB-A5260            | 1/F - BS 1st Fix - 3rd Fix  | 0%                  | 70        | 70       | 20-Dec-25       | 27-Feb-26        | 20-Dec-25 | 27-Feb-26 | 300            |                                     | 1/F - B\$ 1                                  | st Fix - 3rd Fix          |
| For Grid No. BB - EE    |   |                     | 407       | 407      | 00 hrs 00       | 23-Dec-26        | 20-Jun-26 | 02 D 00   |                |                                     |  |                           |
| OI GIIU NO. BB - EE     |   |                     | 187       | 187      | 20-Jun-20       | 23-Dec-26        | 20-Jun-26 | 23-Dec-26 | '              |                                     |  |                           |
| G/F - FS Water Tank & I | FS Pump Room  |                     | 129       | 129      | 20-Jun-26       | 26-Oct-26        | 20-Jun-26 | 26-Oct-26 | 29             |                                     |  | 26-0                      |
| SW-PAB-A6010            | FS Water Tank & Pump Rm - Falsework Removal/ Preparation for ABWF & MEP Works | 0%                  | 35        | 35       | 20-Jun-26       | 24-Jul-26        | 20-Jun-26 | 24-Jul-26 | 29             |                                     |  | FS Water Ta               |
| SW-PAB-A6020            | FS Water Tank & Pump Rm - Waterproofing & Testing                             | 0%                  | 14        | 14       | 25-Jul-26       | 07-Aug-26        | 25-Jul-26 | 07-Aug-26 | 29             |                                     | · · · · · · · · · · · · · · · · · · ·        | FS Water T                |
|                         |   | 070                 | ,,,       | 17       |                 |                  |           | -         |                |                                     |  |                           |
| SW-PAB-A6030            | FS Water Tank & Pump Rm - Plastering Works Inside Tank                        | 0%                  | 14        | 14       | 08-Aug-26       | 21-Aug-26        | 08-Aug-26 | 21-Aug-26 | 29             |                                     |  | FS Water                  |
| SW-PAB-A6040            | FS Water Tank & Pump Rm - Wall and Floor Tiling Works                         | 0%                  | 21        | 21       | 22-Aug-26       | 11-Sep-26        | 22-Aug-26 | 11-Sep-26 | 29             |                                     |  | FS Wate                   |
| SW-PAB-A6050            | FS Water Tank & Pump Rm - Install Equipment                                   | 0%                  | 45        | 45       | 12-Sep-26       | 26-Oct-26        | 12-Sep-26 | 26-Oct-26 | 29             |                                     |  | FS V                      |
| CIAL DAD. ACOCO         | FOW/stee Teels 8 Down Day, Install Oaklands 9 Heath Course                    | 00/                 | 40        | 40       | 47.0-4.00       | 00.0 + 00        | 47.0-+00  | 00.04.00  | 20             |                                     |  | □ FS.W                    |
| SW-PAB-A6060            | FS Water Tank & Pump Rm - Install Cat Ladder & Hatch Cover                    | 0%                  | 10        | 10       | 17-Oct-26       | 26-Oct-26        | 17-Oct-26 | 26-Oct-26 | 29             |                                     |  |                           |
| Other Rooms             |   |                     | 187       | 187      | 20-Jun-26       | 23-Dec-26        | 20-Jun-26 | 23-Dec-26 | 1              |                                     |  | 7                         |
| SW-PAB-A6110            | G/F - Falsework Removal/ Preparation for ABWF & MEP Works                     | 0%                  | 42        | 42       | 20-Jun-26       | 31-Jul-26        | 20-Jun-26 | 31-Jul-26 | 62             |                                     |  | G/F - False               |
| SW-PAB-A6120            | G/F - ABWF Deg1 - Deg3  | 0%                  | 70        | 70       | 01-Aug-26       | 09-Oct-26        | 01-Aug-26 | 09-Oct-26 | 62             |                                     |  | G/F - /                   |
|                         |   |                     |           |          | -               |                  | _         |           |                |                                     |  |                           |
| SW-PAB-A6130            | G/F - BS 1st Fix - 3rd Fix  | 0%                  | 70        | 70       | 15-Aug-26       | 23-Oct-26        | 15-Aug-26 | 23-Oct-26 | 62             |                                     |  | G/F -                     |
| SW-PAB-A6140            | 1/F - Falsework Removal/ Preparation for ABWF & MEP Works                     | 0%                  | 42        | 42       | 20-Aug-26       | 30-Sep-26        | 20-Aug-26 | 30-Sep-26 | 1              |                                     |  | 1/F - Fa                  |
| SW-PAB-A6150            | 1/F - ABWF Deg1 - Deg3  | 0%                  | 70        | 70       | 01-Oct-26       | 09-Dec-26        | 01-Oct-26 | 09-Dec-26 | 1              |                                     |  | 1                         |
|                         |   |                     |           |          |                 |                  |           |           |                |                                     |  |                           |
| SW-PAB-A6160            | 1/F - BS 1st Fix - 3rd Fix  | 0%                  | 70        | 70       | 15-Oct-26       | 23-Dec-26        | 15-Oct-26 | 23-Dec-26 | 1              |                                     |  |                           |
| External Works          |   |                     | 197       | 197      | 08-Sep-26       | 23-Mar-27        | 08-Sep-26 | 23-Mar-27 | 20             |                                     |  | <b>V</b>                  |
|                         |   |                     |           |          |                 |                  |           |           |                |                                     | <u>:                                    </u> |                           |
| 1st Programm            | ne Baseline 💠 💠 1st Programme Baseline Milestone                              |                     |           |          |                 | 9 of 27          |           |           |                | Date Revision                       | Checked                                      | Approv                    |
| Actual Work             | ♦ Milestone   |                     |           |          |                 |                  |           |           | 12-De          |                                     |  |                           |
|                         | ork Summary   |                     |           |          |                 |                  |           |           | 12-Jar         | n-23 Monthly Programme January 2023 | 1  |                           |

| No Personal Control    | Act                     | ivity Name  | Activity %<br>Complete | 1st Prog.<br>Dur. | Original<br>Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float | 2023 2024 2025 2026                                 |             |
|--|-------------------------|---|------------------------|-------------------|----------------------|-----------------|------------------|-----------|-----------|----------------|---|-------------|
| Windows   Description and conditional content (see the process of proving under condition and public of the process of proving under condition and public of the process of proving under condition and public of the public of    | AB-E1000 Un             | derground Utilities Works, Drainage Works & Testing             |                        |                   |                      |                 | 16-Dec-26        | 08-Sep-26 | 16-Dec-26 |                | ND JEMAMJJASOND JEMAMJJASOND JEMAMJJASOND JEMAMJJAS | Unc         |
| 27   1974   1.100  | AB-E1010 Ba             | ckfilling to Ground Level                                       | 0%                     | 30                | 30                   | 23-Oct-26       | 21-Nov-26        | 23-Oct-26 | 21-Nov-26 | 20             |   | ■ Backf     |
| Market   1907   Charmester   Market   1907   Charmester   1907     | AB-E1020 Site           | e preparation and erect external falsework around building      | 0%                     | 14                | 14                   | 22-Nov-26       | 05-Dec-26        | 22-Nov-26 | 05-Dec-26 | 20             |   | ☐ Site      |
| No.   Part   Control   | AB-F1030 Fxi            | tenal wall plastering/ painting works                           | 0%                     | 24                | 24                   | 06-Dec-26       | 29-Dec-26        | 06-Dec-26 | 29-Dec-26 | 80             |   | <b>□</b> E  |
| SWEAK-FEET   SWE   |                         |   |                        |                   |                      |                 |                  |           |           |                |   |             |
| Wind Section   Interest Reservation   Lourney Communication    |                         |   | 0%                     | 24                | 24                   |                 |                  |           |           | 20             |   |             |
| Web    | AB-E1050 Ins            | tall Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings | 0%                     | 24                | 24                   | 30-Dec-26       | 22-Jan-27        | 30-Dec-26 | 22-Jan-27 | 80             |   |             |
| Sector   S   | AB-E1060 Ins            | stall Steel Claddings, Ventilation Louvres, External Ceiling    | 0%                     | 24                | 24                   | 30-Dec-26       | 22-Jan-27        | 30-Dec-26 | 22-Jan-27 | 20             |   |             |
| SW-PRG-E1100   Complete External Works as a loaning and Commissioning (No. Rolated)   Of   O   O   O   O   O   O   O   O   | AB-E1070 Co             | Instruction of vehicular road                                   | 0%                     | 45                | 45                   | 23-Jan-27       | 08-Mar-27        | 23-Jan-27 | 08-Mar-27 | 35             |   | ‡           |
| SYM-PS-1100  | AB-E1080 Ins            | stall Bi-folding gate, security fenece, footpath, boundary wall | 0%                     | 60                | 60                   | 23-Jan-27       | 23-Mar-27        | 23-Jan-27 | 23-Mar-27 | 20             |   |             |
| SVFRR-T100   | AB-E1100 Co             | mplete External Works   | 0%                     | 0                 | 0                    |                 | 23-Mar-27        |           | 23-Mar-27 | 20             |   |             |
| No. West Fire Sta - Testing and Commissioning (Non FS: Resided)   ON   67   7   24 Dac-26   28 Feb-27   24 Cac-26   28 Feb-27   1  | and Commisioning        |   |                        | 97                | 97                   | 24-Nov-26       | 28-Feb-27        | 24-Nov-26 | 28-Feb-27 | 1              |   |             |
| 1  | AR-T1000 1A             | - West Fire Sta - Testing and Commissioning (FS - Related)      | 0%                     | 18                | 18                   | 24-Nov-26       | 11-Dec-26        | 24-Nov-26 | 11-Dec-26 | 1              |   | <b>=</b> 1A |
| ### Accepting and Architectural Roof   219   219   20-Aug 26   20-Aug-20   20-Aug-20   20-Aug-20   18-Out-20   12    A1030   Tree Transplant near Cabon Wall   0%   60   60   19-Sep-26   17-Nov-26   19-Sep-26   17-Nov-26   132    A1040   Installation of Landscape Fence   0%   14   14   18-Nov-26   01-Sep-26   17-Nov-26   132    A1050   Architectural Roof andwork   0%   120   120   27-Nov-26   26-Nan-27   27-Nov-26   28-Nov-26   132    A1050   Architectural Roof andwork and Tree transplant   0%   60   60   27-De-26   28-Nov-26   28-Nov-26   28-Nov-26   28-Nov-26   28-Nov-26   132    A1050   Architectural Roof andwork and Tree transplant   0%   60   60   27-De-26   28-Nov-26   28-Nov- |                         |   |                        |                   |                      |                 |                  |           |           | ·              |   |             |
| A1000 Construction of Cabbrin Well 0% 00 00 20-Aug-20 18-Ost-20 20-Aug-20 18-Ost-20 132  A1000 Tree Transplant near Gabbri Well 0% 60 60 19-Sep-26 17-Nov-26 19-Sep-26 17-Nov-26 132  A1040 Installation of Landscape Fence 0% 14 14 14 18-Nov-20 01-Dec-20 18-Nov-20 01-Dec-20 132  A1050 Architectural Roof hardwork 0% 120 120 27-Nov-26 28-Mer-27 27-Nov-26 28-Mer-27 17  A1060 Architectural Roof softwork and Tire transplant 0% 60 60 27-Dec-26 24-Feb-27 27-Dec-26 24-Feb-27 47  Stuttery Argorof & Inspection 1 14 11 14 07-Nov-20 28-Feb-27 07-Nov-20 11-Apr-27 1 1  WIDD Inspection 0 Submit WWO 46 Part IV (FS) and Well for Inspection by WSD 0% 35 35 07-Nov-20 11-Dec-20 07-Nov-20 11-Dec-20 10  SW-FAB-5000 Submit WWO 46 Part IV (FS) and Well for Inspection by WSD 0% 36 35 07-Nov-20 11-Dec-20 07-Nov-20 11-Dec-20 10  SW-FAB-5010 Inspection and Re-inspection by WSD 0% 38 58 12-Dec-26 29-Jan-27 12-Dec-26 29-Jan-27 10  SW-FAB-5010 Inspection and Re-inspection by WSD 0% 38 58 12-Dec-26 29-Jan-27 12-Dec-26 07-Feb-27 11  SW-FAB-5010 Inspection and Re-inspection by WSD 0% 21 21 10-Sel-26 07-Feb-27 12-Dec-26 07-Feb-27 11  SW-FAB-5020 Issuance Period of WWO 46 Part IV (FS) 0 0% 21 21 10-Sel-26 07-Feb-27 10-Sel-26-27 11-Dec-20 07-Feb-27 11-Dec-20 07-Feb- |                         | ,   | 0%                     | 67                |                      |                 |                  |           |           | <u> </u>       | ]   |             |
| A1030 Tree Transplant near Gabion Well 0% 60 60 19-Sep-26 17-Nov-26 19-Sep-26 17-Nov-26 132   A1040 Installation of Landscape Fence 0% 14 14 14 18-Nov-26 01-Dec-26 18-Nov-26 01-Dec-26 132   A1050 Architectural Roof hardwork 0% 0% 0% 00 00 27-Nov-26 28-Mar-27 27-Nov-26 28-Mar-27 17   A1060 Architectural Roof softwork and Tree transplant 0% 0% 0% 00 00 27-Dec-26 24-Feb-27 27-Dec-26 24-Feb-27 47   Statemy Approval & Preparation 1% 156 156 07-Nov-26 11-Apr-27 07-Nov-26 28-Feb-27 1   SW-PAB-8000 Submit WWO 46 Part I V (PD) and Wait for Inspection by WSD (PO) (Including water test) 0% 18 58 12-Dec-26 29-Jan-27 12-Dec-26 29-Jan-27 10   SW-PAB-8010 Inspection and Re-inspection by WSD (PO) (Including water test) 0% 21 21 08-Feb-27 07-Feb-27 30-Jan-27 19-Feb-27 10   SW-PAB-8020 Issuance Period of WWO 46 Part V (PD) 0% 21 21 08-Feb-27 28-Feb-27 08-Feb-27 1-Period Of WWO 46 Part V (PD) 0% 0% 21 21 08-Feb-27 28-Feb-27 28-Feb-27 1-Period Of WWO 46 Part V (PS) 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%   | aping and Architectural | l Roof  |                        | 219               | 219                  | 20-Aug-26       | 26-Mar-27        | 20-Aug-26 | 26-Mar-27 | 17             | <b>Y</b>  |             |
| A 1040 Insistation of Landscape Fence 0 % 14 14 18-No-26 01-Dec-26 18-No-26 01-Dec-26 132   1050   1 | ) Co                    | nstruction of Gabion Wall                                       | 0%                     | 60                | 60                   | 20-Aug-26       | 18-Oct-26        | 20-Aug-26 | 18-Oct-26 | 132            |   | Const       |
| A1050 Architectural Roof hardwork  Architectural Roof hardwork and Tree transplant  O% 60 60 27-Dec-26 24-Feb-27 27-Dec-26 24-Feb-27 47  Stellutory Approval & Inspection  156 156 07-Nov-26 11-Apr-27 07-Nov-26 11-Apr-27 1  WSD Inspection  SW-PAB-8000 Submit WWO 46 Part IV (PD) and Wait for Inspection by WSD  O% 35 35 07-Nov-26 11-Dec-26 07-Nov-26 11-Dec-26 11  SW-PAB-8010 Inspection and Re-inspection by WSD (PD) (including water test)  O% 49 49 12-Dec-26 29-Jan-27 12-Dec-26 11  SW-PAB-8020 Inspection ARe-inspection by WSD (PD) (including water test)  O% 58 58 12-Dec-26 07-Feb-27 12-Dec-26 07-Feb-27 10  SW-PAB-8020 Inspection ARe-inspection by WSD (PS)  SW-PAB-8020 Inspection ARE-inspection ARE-inspection ARE-inspection ARE-inspection ARE-inspection By WSD (PS)  SW-PAB-8020 Inspection ARE-inspection ARE-inspectio | ) Tre                   | ee Transplant near Gabion Wall                                  | 0%                     | 60                | 60                   | 19-Sep-26       | 17-Nov-26        | 19-Sep-26 | 17-Nov-26 | 132            |   | Tree        |
| A1060 Architectural Roof softwork and Tree transplant 0% 60 60 27-Dec-26 24-Feb-27 27-Dec-26 24-Feb-27 47    150 175 07-Nov-26 11-Apr-27 17-Nov-26 11-Dec-26 17-Dec-26 | ) Ins                   | tallation of Landscape Fence                                    | 0%                     | 14                | 14                   | 18-Nov-26       | 01-Dec-26        | 18-Nov-26 | 01-Dec-26 | 132            |   | ☐ Ins       |
| Sizulatory Approval & Inspection   | ) Arc                   | chitectural Roof hardwork                                       | 0%                     | 120               | 120                  | 27-Nov-26       | 26-Mar-27        | 27-Nov-26 | 26-Mar-27 | 17             |   |             |
| 114   114   07-Nov-26   28-Feb-27   07-Nov-26   28-Feb-27   1   1   1   1   1   1   1   1   1  | ) Arc                   | chitectural Roof softwork and Tree transplant                   | 0%                     | 60                | 60                   | 27-Dec-26       | 24-Feb-27        | 27-Dec-26 | 24-Feb-27 | 47             |   |             |
| ## 114 114 07-Nov-26 28-Feb-27 07-Nov-26 11-Dec-26 10  | v Approval & Inspectio  | n   |                        | 156               | 156                  | 07-Nov-26       | 11-Anr-27        | 07-Nov-26 | 11-Apr-27 | 1              |   |             |
| SW-PAB-8000 Submit WWO 46 Part IV (PD) and Wait for Inspection by WSD 0% 35 35 07-Nov-26 11-Dec-26 07-Nov-26 11-Dec-26 10    SW-PAB-7000 Submit WWO 46 Part IV (FS) and Wait for Inspection by WSD 0% 35 35 07-Nov-26 11-Dec-26 07-Nov-26 11-Dec-26 1    SW-PAB-8010 Inspection and Re-inspection by WSD (PD) (including water test) 0% 49 49 12-Dec-26 29-Jan-27 12-Dec-26 29-Jan-27 10    SW-PAB-7010 Inspection and Re-inspection by WSD (FS) 0% 58 58 12-Dec-26 07-Feb-27 12-Dec-26 07-Feb-27 1    SW-PAB-8020 Issuance Period of WWO 46 Part V (PD) 0% 21 21 30-Jan-27 19-Feb-27 30-Jan-27 19-Feb-27 10    SW-PAB-7020 Issuance Period of WWO 46 Part V (FS) 0% 21 21 08-Feb-27 28-Feb-27 08-Feb-27 1   |                         |   |                        |                   |                      |                 |                  |           |           |                |   |             |
| SW-PAB-7000         Submit WWO 46 Part IV (FS) and Wait for Inspection by WSD         0%         35         35         07-Nov-26         11-Dec-26         07-Nov-26         11-Dec-26         1           SW-PAB-8010         Inspection and Re-inspection by WSD (PD) (including water test)         0%         49         49         12-Dec-26         29-Jan-27         12-Dec-26         29-Jan-27         10           SW-PAB-7010         Inspection and Re-inspection by WSD (FS)         0%         58         58         12-Dec-26         07-Feb-27         1           SW-PAB-8020         Issuance Period of WWO 46 Part V (PD)         0%         21         21         30-Jan-27         19-Feb-27         30-Jan-27         19-Feb-27         10           SW-PAB-7020         Issuance Period of WWO 46 Part V (FS)         0%         21         21         08-Feb-27         28-Feb-27         08-Feb-27         28-Feb-27         1  |                         |   |                        | 114               | 114                  |                 |                  |           |           |                |   |             |
| SW-PAB-8010 Inspection and Re-inspection by WSD (PD) (including water test)  0% 49 49 12-Dec-26 29-Jan-27 12-Dec-26 29-Jan-27 10  SW-PAB-7010 Inspection and Re-inspection by WSD (FS)  0% 58 58 12-Dec-26 07-Feb-27 12-Dec-26 07-Feb-27 1  SW-PAB-8020 Issuance Period of WWO 46 Part V (PD)  0% 21 21 30-Jan-27 19-Feb-27 30-Jan-27 19-Feb-27 10  SW-PAB-7020 Issuance Period of WWO 46 Part V (FS)  0% 21 21 08-Feb-27 28-Feb-27 1  | PAB-8000 Su             | bmit WWO 46 Part IV (PD) and Wait for Inspection by WSD         | 0%                     | 35                | 35                   | 07-Nov-26       | 11-Dec-26        | 07-Nov-26 | 11-Dec-26 | 10             |   | ■ Su        |
| SW-PAB-7010         Inspection and Re-inspection by WSD (FS)         0%         58         58         12-Dec-26         07-Feb-27         12-Dec-26         07-Feb-27         1           SW-PAB-8020         Issuance Period of WWO 46 Part V (PD)         0%         21         21         30-Jan-27         19-Feb-27         30-Jan-27         19-Feb-27         10           SW-PAB-7020         Issuance Period of WWO 46 Part V (FS)         0%         21         21         08-Feb-27         28-Feb-27         1   | PAB-7000 Su             | bmit WWO 46 Part IV (FS) and Wait for Inspection by WSD         | 0%                     | 35                | 35                   | 07-Nov-26       | 11-Dec-26        | 07-Nov-26 | 11-Dec-26 | 1              |   | <b>■</b> Su |
| SW-PAB-8020 Issuance Period of WWO 46 Part V (PD) 0% 21 21 30-Jan-27 19-Feb-27 30-Jan-27 19-Feb-27 10 SW-PAB-7020 Issuance Period of WWO 46 Part V (FS) 0% 21 21 08-Feb-27 28-Feb-27 08-Feb-27 1   | PAB-8010 Ins            | spection and Re-inspection by WSD (PD) (including water test)   | 0%                     | 49                | 49                   | 12-Dec-26       | 29-Jan-27        | 12-Dec-26 | 29-Jan-27 | 10             |   |             |
| SW-PAB-7020 Issuance Period of WWO 46 Part V (FS) 0% 21 21 08-Feb-27 28-Feb-27 1   | PAB-7010 Ins            | spection and Re-inspection by WSD (FS)                          | 0%                     | 58                | 58                   | 12-Dec-26       | 07-Feb-27        | 12-Dec-26 | 07-Feb-27 | 1              |   |             |
|  | PAB-8020 Iss            | uance Period of WWO 46 Part V (PD)                              | 0%                     | 21                | 21                   | 30-Jan-27       | 19-Feb-27        | 30-Jan-27 | 19-Feb-27 | 10             |   |             |
|  | PAB-7020 Iss            | uance Period of WWO 46 Part V (FS)                              | 0%                     | 21                | 21                   | 08-Feb-27       | 28-Feb-27        | 08-Feb-27 | 28-Feb-27 | 1              |   |             |
| ■ 1st Programme Baseline ♦ ♦ 1st Programme Baseline Milestone 10 of 27 Date Revision Check   |                         | . ,   |                        |                   |                      |                 |                  |           |           |                |   |             |
| 10 ULZ1  | 1st Programme Bas       | seline 💠 💠 1st Programme Baseline Milestone                     |                        |                   |                      |                 | 10 of 27         |           |           |                | Date Revision Checked                               | Approve     |
| Actual Work ♦ Milestone  Remaining Work Summary  12-Dec-22 First Programme  12-Jan-23 Monthly Programme January 2023   | •                       | -   |                        |                   |                      |                 | · <del>- ·</del> |           |           | l              |   |             |

| 0                         | Activity Name  | Activity % Complete | Dur. | Duration | 13t 1 log. Start | 1st Prog. Finish | Start       | Finish    | Total<br>Float | 2023 2024 2025 2026<br>NDJFMAMJJJASONDJFMAMJJJASONDDFMAMJJJASOND                                |
|---------------------------|--|---------------------|------|----------|------------------|------------------|-------------|-----------|----------------|---|
| SW-PAB-8030               | Obtain WWO 46 Part V (PD) by WSD   | 0%                  | 0    | 0        |                  | 19-Feb-27        |             | 19-Feb-27 | 10             | M 이 하는 에 이 에 이 하는 데 이 이 이 에 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이                                       |
| SW-PAB-7030               | Obtain WWO 46 Part V (FS) by WSD   | 0%                  | 0    | 0        |                  | 28-Feb-27        |             | 28-Feb-27 | 1              |   |
|                           | <u> </u>   |                     | 404  | 404      | 40 D 00          |                  | 40 D 00     |           |                |   |
| FSD and OP Inspection     |  |                     | 121  | 121      | 12-Dec-26        | 11-Apr-27        | 12-Dec-26   | 11-Apr-27 | 1              |   |
| SW-PAB-9000               | Submit Form 314 / FSI501 and Wait for Inspection by FSD  | 0%                  | 21   | 21       | 12-Dec-26        | 01-Jan-27        | 12-Dec-26   | 01-Jan-27 | 59             |   |
| SW-PAB-9010               | FS Inspection and Re-inspection  | 0%                  | 28   | 28       | 01-Mar-27        | 28-Mar-27        | 01-Mar-27   | 28-Mar-27 | 1              |   |
| SW-PAB-9020               | Issue Fire Certificate (FS172)   | 0%                  | 14   | 14       | 29-Mar-27        | 11-Apr-27        | 29-Mar-27   | 11-Apr-27 | 1              |   |
| SW-PAB-9030               | Obtain Fire Certificate (FS172) by FSD   | 0%                  | 0    | 0        |                  | 11-Apr-27        |             | 11-Apr-27 | 1              |   |
| hicular Access Tunne      |  |                     | 1145 | 1145     | 09-Mar-23        | 15-Jan-27        | 09-Mar-23   | 15-Jan-27 | 67             | <del>                              </del>   |
| unnel Works CH 3 - 4      | 0 by Cut and Cover Method  |                     | 476  | 476      | 09-Mar-23        | 15-Oct-24        | 09-Mar-23   | 15-Oct-24 | 655            | ▼ 15-Oct-24, Tunnel Works CH 3 - 40 by Cut and Cover Meth                                       |
| uillei vvoiks Ci i 3 - 40 | o by Cut and Cover ivieurou  |                     | 470  | 470      | 09-iviai-23      | 13-00:-24        | 09-IVIAI-23 | 13-00-24  | 033            |   |
| Preliminary Works         |  |                     | 77   | 77       | 09-Mar-23        | 24-May-23        | 09-Mar-23   | 24-May-23 | 0              | ▼ 24-May-23, Préliminary Works  |
| SW-VAT-1000               | Access to Portion 1  | 0%                  | 0    | 0        | 09-Mar-23        |                  | 09-Mar-23   |           | 15             | Access to Portion 1   |
| SW-VAT-1010               | Tree Survey at Portion 1   | 0%                  | 30   | 30       | 09-Mar-23        | 07-Apr-23        | 09-Mar-23   | 07-Apr-23 | 15             | ☐ Tree Survey at Portion 1  |
| SW-VAT-1020               | Hoarding Erection and Site Setup   | 0%                  | 10   | 10       | 13-Apr-23        | 22-Apr-23        | 13-Apr-23   | 22-Apr-23 | 0              | ■ Hoarding Erection and Site Setup  |
| SW-VAT-1030               | Tree Treatment and Site Clearance  | 0%                  | 28   | 28       | 23-Apr-23        | 20-May-23        | 23-Apr-23   | 20-May-23 | 0              | ■ Tiree Treatment and Site Clearance  |
| SW-VAT-1040               | Survey, Trial pit, UU detection, Condition survey  | 0%                  | 14   | 14       | 11-May-23        | 24-May-23        | 11-May-23   | 24-May-23 | 0              | . ■ Survey,:Trial:pit, UU:detection, Condition survey   |
|                           | , CH3 -27, at Zone0 (up to existing kerb line of Lion Rock Road)   | 0,1                 | 141  |          | 25-May-23        | 11-Nov-23        | 25-May-23   | ·         |                | ▼ 11-Nov-23, Stage 1 & 2 - ELS works, CH3 -27, at Zone0 (up to existing kerb line of Lio        |
|                           |  |                     | 141  | 141      | ·                |                  |             |           | 49             |   |
| SW-VAT-1100               | Installation of Pipe Pile (Total: 34no) (PR=2.5d/pile/rig) (2 rigs)                                      | 0%                  | 43   | 43       | 25-May-23        | 17-Jul-23        | 25-May-23   | 17-Jul-23 | 0              | Installation of Pipe Pile (Total: 34no) (PR=2.5d/pile/rig) (2 rigs)                             |
| SW-VAT-1110               | Installation of King Post (Total: 4no) (PR=2.5d/pile/rig) (2 rigs)                                       | 0%                  | 5    | 5        | 18-Jul-23        | 22-Jul-23        | 18-Jul-23   | 22-Jul-23 | 0              | l Installation of King Post (Total: 4no) (PR=2.5d/pile/rig) (2 rigs)                            |
| SW-VAT-1130               | Soil Excavation for Temporary Steel Platform (Total:878m3) (PR=180m3/d)                                  | 0%                  | 5    | 5        | 24-Jul-23        | 28-Jul-23        | 24-Jul-23   | 28-Jul-23 | 0              | l Soil Excavation for Temporary Steel Platform (Total:878m3) (PR⊨180m3/d)                       |
| SW-VAT-1140               | Erection of Temporary Steel Platform for Traffic Diversion   | 0%                  | 18   | 18       | 29-Jul-23        | 18-Aug-23        | 29-Jul-23   | 18-Aug-23 | 0              | ■ Erection of Temporary Steel Platform for Traffic Diversion                                    |
| SW-VAT-1150               | Erection of Temporary Steel Platform for Bored Pile Construction support with King Post                  | 0%                  | 18   | 18       | 19-Aug-23        | 08-Sep-23        | 19-Aug-23   | 08-Sep-23 | 49             | ☐ Erection of Temporary Steel Platform for Bored Pile Construction support with King Post       |
| SW-VAT-1160               | Soil Excavation for C&C Tunnel (Total: 6460m3) (PR=180m3/d)  | 0%                  | 52   | 52       | 09-Sep-23        | 11-Nov-23        | 09-Sep-23   | 11-Nov-23 | 49             | Soil Excavation for C&C Tunnel (Total: 6460m3) (PR=180m3/d)                                     |
| Stage 2 El Sweeke CH      |  |                     | 67   | 67       | ·                |                  | ·           |           |                | ▼ V8-Noy-23, Stage 3 - ELS works, CH27 -40; at ZoneA  |
| Stage 3 - ELS works, CH   | IZ/ -4U, at ZONEA  |                     | 67   | 67       | 19-Aug-23        | 08-Nov-23        | 19-Aug-23   | 08-Nov-23 | U              | v v od-1409-43, Slage'S - LEG Works, Grizz 7-0; ar Ahren  |
| SW-VAT-1200               | Divert the Traffic onto the Temporary Steel Platform to maintain access to Lion Rock Park and DSD - TTA1 | 0%                  | 3    | 3        | 19-Aug-23        | 22-Aug-23        | 19-Aug-23   | 22-Aug-23 | 0              | I Divert the Traffic onto the Temporary Steel Platform to maintain access to Lion Rock Park and |
| SW-VAT-1210               | Construction of Concrete Block Wall and FormWorking Platform at +89mPD (3d+3d)                           | 0%                  | 6    | 6        | 23-Aug-23        | 29-Aug-23        | 23-Aug-23   | 29-Aug-23 | 6              | Construction of Concrete Block Wall and Form Working Platform at +89mPD (3d+3d)                 |
| SW-VAT-1220               | Trial Trench, UU detection and diversion   | 0%                  | 12   | 12       | 23-Aug-23        | 05-Sep-23        | 23-Aug-23   | 05-Sep-23 | 0              | ☐ Trial Trench, UU detection and diversion  |
| SW-VAT-1230               | Installation of Pipe Pile (Total: 15no) (PR=2.5d/pile/rig) (1 rigs)                                      | 0%                  | 38   | 38       | 06-Sep-23        | 21-Oct-23        | 06-Sep-23   | 21-Oct-23 | 0              | Installation of Pipe Pile (Total:15no) (PR÷2:5d/pile/rig) (1 rigs)                              |
| 1ot Drowns                | De Pageline A 1st Programme Pageline Milester -  |                     |      | 1        | 1                | 4 -4 07          | 1           | 1         |                | Date Revision Checked Appro   |
| Actual Work               | e Baseline   ◆ 1st Programme Baseline Milestone  ◆ Milestone   |                     |      |          | 1                | 1 of 27          |             |           | 12-Dec         |   |
| Remaining Wo              |  |                     |      |          |                  |                  |             |           | 12-Jan         | n-23 Monthly Programme January 2023   |

| ID                     | Activity Name  | Activity %<br>Complete | 1st Prog.<br>Dur. | Original Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float | 2023   2024   2025   2026<br>  D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D  | D 1 E            |
|------------------------|--|------------------------|-------------------|-------------------|-----------------|------------------|-----------|-----------|----------------|---|------------------|
| SW-VAT-1240            | Construction of Temporary Steel Platform at Zone A for Traffic Diversion                                 | 0%                     | 14                | 14                | 24-Oct-23       | 08-Nov-23        | 24-Oct-23 | 08-Nov-23 | 0              | Construction of Temporary Steel Platform at Zone Afor Traffic Diversion   | 701              |
| Stage 4 & 5 - ELS work | s, CH27 -40, at ZoneB  |                        | 110               | 110               | 09-Nov-23       | 21-Mar-24        | 09-Nov-23 | 21-Mar-24 | 0              | ▼ 21-Mar-24, Stage 4-&5 - EL\$ works, ÇH27, -40, at ZoneB   |                  |
|                        |  |                        |                   |                   |                 |                  |           |           |                |   |                  |
| SW-VAT-1300            | Divert the Traffic onto the Temporary Steel Platform to maintain access to Lion Rock Park and DSD - TTA2 | 0%                     | 3                 | 3                 | 09-Nov-23       | 11-Nov-23        | 09-Nov-23 | 11-Nov-23 | 0              | U Divert the Traffic onto the Temporary Steel Platform to maintain a coess to Lion Roick €  | <sup>2</sup> ark |
| SW-VAT-1300a           | Trial Trench, UU detection and diversion   | 0%                     | 6                 | 6                 | 13-Nov-23       | 18-Nov-23        | 13-Nov-23 | 18-Nov-23 | 0              | I Trial Trench, UU detection and diversion  |                  |
| SW-VAT-1310            | Installation of Pipe Pile (Total: 12no) (PR=2.5d/pile/rig) (1 rigs)                                      | 0%                     | 30                | 30                | 20-Nov-23       | 23-Dec-23        | 20-Nov-23 | 23-Dec-23 | 0              | Installation of Pipe Pile (Total: 12no) (PR=2:5d/pile/rig) (1 rigs)   |                  |
| SW-VAT-1320            | Construction of Temporary Steel Platform at Zone B for Traffic Diversion                                 | 0%                     | 10                | 10                | 27-Dec-23       | 08-Jan-24        | 27-Dec-23 | 08-Jan-24 | 0              | Construction of Temporary Steel Platform at Zone B for Traffic Diversion  |                  |
| SW-VAT-1330            | Divert the Traffic onto the Temporary Steel Platform to maintain access to Lion Rock Park and DSD - TTA3 | 0%                     | 3                 | 3                 | 09-Jan-24       | 11-Jan-24        | 09-Jan-24 | 11-Jan-24 | 0              | I Divert the Traffic onto the Temporary Steel Platform to maintain a cœss to Lion R   | lock             |
| SW-VAT-1340            | Remaining Soil Excavation for C&C Tunnel (Total: 5870m3) (PR=200m3/d) + 28d ELS with 4 strut & tie-back  | 0%                     | 58                | 58                | 12-Jan-24       | 21-Mar-24        | 12-Jan-24 | 21-Mar-24 | 0              | Remaining Soil:Excavation:for C&C Tunnel:(Total: 5870m3):(PR=200m3/d  | ) + 2            |
| Structure Works        | Strut & ue-back  |                        | 167               | 167               | 22-Mar-24       | 15-Oct-24        | 22-Mar-24 | 15-Oct-24 | 655            | ▼ 15-Oqt-24, Structure Works  |                  |
|                        |  |                        |                   |                   |                 |                  |           |           |                |   |                  |
| SW-VAT-1500            | Construction of blinding, waterproofing layer and base slab (Total: 792m3, 8bays(10x16.5), PR=12d/bay)   | 0%                     | 24                | 24                | 22-Mar-24       | 23-Apr-24        | 22-Mar-24 | 23-Apr-24 | 639            | Construction of blinding, waterproofing layer and base slab (Total: 792m  | 3, 8             |
| SW-VAT-1510            | Construction of temporary wall, waterproofing layer and wall (Total: 960m3, 8bays (10x10), PR= 12d/bay)  | 0%                     | 48                | 48                | 24-Apr-24       | 21-Jun-24        | 24-Apr-24 | 21-Jun-24 | 639            | Construction of temporary wall, waterprobfing layer and wall (Total:  | 960              |
| SW-VAT-1520            | Erection of working platform   | 0%                     | 21                | 21                | 22-Jun-24       | 17-Jul-24        | 22-Jun-24 | 17-Jul-24 | 639            | Erection of working platform  |                  |
| SW-VAT-1530            | Construction of top slab (Total: 792m3, 4bays(10x16.5), PR = 12d/bay, 2workfront)                        | 0%                     | 24                | 24                | 18-Jul-24       | 14-Aug-24        | 18-Jul-24 | 14-Aug-24 | 639            | Construction of top slab (Total: 792m3, 4bays(10x16.5), PR = 1  | 2d/              |
| SW-VAT-1540            | Backfilling to existing level  | 0%                     | 30                | 30                | 15-Aug-24       | 13-Sep-24        | 15-Aug-24 | 13-Sep-24 | 786            | Backfilling to existing level   |                  |
| SW-VAT-1550            | Removal of temporary steel platform (staged TTA)   | 0%                     | 18                | 18                | 14-Sep-24       | 01-Oct-24        | 14-Sep-24 | 01-Oct-24 | 805            | Removal of temporary steel platform (staged TTA)  |                  |
| SW-VAT-1560            | Reinstatement of road (staged TTA)   | 0%                     | 32                | 32                | 14-Sep-24       | 15-Oct-24        | 14-Sep-24 | 15-Oct-24 | 805            | Reinstatement of road (staged TTA)  |                  |
| Tunnel Works CH 40     | - 775.8 & Caverns (5no.) by Mechanical Break & Drill & Blast Method                                      |                        | 745               | 745               | 01-Mar-24       | 15-Mar-26        | 01-Mar-24 | 15-Mar-26 | 1              | ▼ 15-Mar-26, Tunnel   | Wo               |
| SW-VAT-2000            | Opening of Pipe Plle Wall, Portal construction and site setup  | 0%                     | 50                | 50                | 01-Mar-24       | 19-Apr-24        | 01-Mar-24 | 19-Apr-24 | 0              | Opening of Pipe Plle Wall, Portal construction and site setup   |                  |
| SW-VAT-2010            | Tunnelling works for vehicular access tunnel, T1-I by mech. break (236m) (7day work)                     | 0%                     | 241               | 241               | 15-Mar-24       | 10-Nov-24        | 15-Mar-24 | 10-Nov-24 | 0              | Tunnelling works for vehicular access tunnel, T1-l by me  | ch.              |
| SW-VAT-2020            | Tunnelling works for vehicular access tunnel, T2-III by Drill & Blast (61.15m) (5Blast/wk)               | 0%                     | 116               | 116               | 13-Aug-24       | 06-Dec-24        | 13-Aug-24 | 06-Dec-24 | 0              | Tunn elling works for vehicular access tunn el, T.2-III by I  | Drill            |
| SW-VAT-2030            | Tunnelling works for vehicular access tunnel, T1-II by mech. break (78.8m) (7day work)                   | 0%                     | 116               | 116               | 03-Sep-24       | 27-Dec-24        | 03-Sep-24 | 27-Dec-24 | 0              | Tuhnielling works for vehicular access tuhniel;T1-II by   | / me             |
| SW-VAT-2040            | Tunnelling works for vehicular access tunnel, T2-III by Drill & Blast (155.45m) (5Blast/wk)              | 0%                     | 240               | 240               | 29-Oct-24       | 25-Jun-25        | 29-Oct-24 | 25-Jun-25 | 0              | Tunnelling works for vehicular access to  | unne             |
| SW-VAT-2050            | Tunnelling works for vehicular access tunnel, J1-III by Drill & Blast (204.4m) (5Blast/wk)               | 0%                     | 304               | 304               | 09-Jan-25       | 08-Nov-25        | 09-Jan-25 | 08-Nov-25 | 0              | Tunn elling works for vehicula  | arac             |
| SW-VAT-2110            | Tunnelling works for Caverns 1 by Drill & Blast (93.1m) (5Blast/wk)                                      | 0%                     | 172               | 172               | 30-Apr-25       | 18-Oct-25        | 30-Apr-25 | 18-Oct-25 | 0              | Turin elling: works for Caverns   | 1bv              |
| SW-VAT-2130            | Tunnelling works for Caverns 3 by Drill & Blast (87.4m) (5Blast/wk)                                      | 0%                     | 150               | 150               | 03-Jul-25       | 29-Nov-25        | 03-Jul-25 | 29-Nov-25 | 1              | Tuhrielling works for Caver   |                  |
| SW-VAT-2150            | Tunnelling works for Caverns 5 by Drill & Blast (83.0m) (5Blast/wk)                                      | 0%                     | 129               | 129               | 06-Sep-25       | 12-Jan-26        | 06-Sep-25 | 12-Jan-26 | 1              | Tunnelling works for Ca   |                  |
|                        |  |                        |                   |                   |                 |                  |           |           |                |   |                  |
| SW-VAT-2120            | Tunnelling works for Caverns 2 by Drill & Blast (80.7m) (5Blast/wk)                                      | 0%                     | 118               | 118               | 24-Sep-25       | 19-Jan-26        | 24-Sep-25 | 19-Jan-26 | 2              | Turin elling works for Ca   | ıvei             |
| 1st Programm           | me Baseline ♦ ♦ 1st Programme Baseline Milestone   |                        |                   |                   | 1               | 2 of 27          |           |           |                | ate Revision Checked Appr   | rov              |
| 5                      | Č  |                        |                   |                   |                 | · <b>_</b> ·     |           |           | 12-De          | 00   5-4   5- |                  |
| Actual Work            | ♦ Milestone  |                        |                   |                   |                 |                  |           |           | 12-De          |   |                  |

| y ID                   | Activity Name  | Activity % Complete | 1st Prog.<br>Dur. | Original Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float | 2023   2024   2025   2026<br>  N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N | 202<br>1 D 1 E I |
|------------------------|--|---------------------|-------------------|-------------------|-----------------|------------------|-----------|-----------|----------------|--|------------------|
| SW-VAT-2140            | Tunnelling works for Caverns 4 by Drill & Blast (78.3m) (5Blast/wk) [140]  | 0%                  | 120               | 120               | 16-Nov-25       | 15-Mar-26        | 16-Nov-25 | 15-Mar-26 | 1              | Tunnelling works   |                  |
| Remaining Works        |  |                     | 868               | 868               | 31-Aug-24       | 15-Jan-27        | 31-Aug-24 | 15-Jan-27 | 87             |  | <b>1</b> 5       |
| CM/ VAT 2000           | Construction of abotacts (min 40m augustam ava face SC 142 FF (CO) 720m DD=10mbd.  | 00/                 | 405               | 405               | 24 Aug 24       | 07 lan 26        | 24 Aug 24 | 07-Jan-26 | 65             | Construction of shotcre  | ata (atia        |
| SW-VAT-3000            | Construction of shotcrete (min 10m away from exc. face, SS+12, FF+60) 736m, PR=12m/wk (434d)                             | 0%                  | 495               | 495               | 31-Aug-24       | 07-Jan-26        | 31-Aug-24 | 07-Jan-20 | 00             | Construction of shorter  | ie (min          |
| SW-VAT-3010a           | [CH40-571] Construction of drainage layer, base slab, lower part (200m from exca, SS+176;FF+30) 532m, PR=12m/wk (315d)   | 0%                  | 361               | 361               | 11-Feb-25       | 06-Feb-26        | 11-Feb-25 | 06-Feb-26 | 65             | [CH40-571] Constru   | ction of         |
| SW-VAT-3020a           | [CH40-571] Construction of RC Lining (min 24m from base slab + 2wk erection, SS+30) 532m, PR=12m/9d (405d)               | 0%                  | 405               | 405               | 13-Mar-25       | 21-Apr-26        | 13-Mar-25 | 21-Apr-26 | 65             | [CH40-571] Cc  | nstruc           |
| SW-VAT-3030a           | [CH40-776] Construction of compartment RHS (min 24m from Lining, SS+18), 736m, PR=12m/9d [558d]                          | 0%                  | 558               | 558               | 31-Mar-25       | 09-Oct-26        | 31-Mar-25 | 09-Oct-26 | 65             |  | CH40-7           |
| SW-VAT-3010b           | [CH571-776] Construction of drainage layer, base slab, lower part (after all excavation) 204m, PR=12m/wk (119d)          | 0%                  | 119               | 119               | 16-Mar-26       | 12-Jul-26        | 16-Mar-26 | 12-Jul-26 | 57             | [CH57:1-   | 776] C           |
| SW-VAT-3020b           | [CH571-776] Construction of RC Lining (min 24m from base slab + 2wk erection, SS+30) 204m, PR=12m/9d (153d)              | 0%                  | 153               | 153               | 15-Apr-26       | 14-Sep-26        | 15-Apr-26 | 14-Sep-26 | 68             |  | 1571-7           |
| SW-VAT-3030b           | [CH40-776] Construction of compartment LHS (min 24m from Lining, SS+18), 736m, PR=24m/wk [217d]                          | 0%                  | 217               | 217               | 14-May-26       | 16-Dec-26        | 14-May-26 | 16-Dec-26 | 57             |  | ECH              |
| SW-VAT-3040            | Installation of pipeworks below proposed road level (Total: 4416m) PR=36m/d incl. 1M for Pressure Test (150d)            | 0%                  | 229               | 229               | 01-Jun-26       | 15-Jan-27        | 01-Jun-26 | 15-Jan-27 | 57             |  | - 1              |
| SW-VAT-3070            | Construction of OHVD, 736m, PR=12d/50m   | 0%                  | 180               | 180               | 01-Jul-26       | 27-Dec-26        | 01-Jul-26 | 27-Dec-26 | 106            |  | = c              |
| SW-VAT-3060            | Installation of CLP power cable along VAT  | 0%                  | 60                | 60                | 17-Nov-26       | 15-Jan-27        | 17-Nov-26 | 15-Jan-27 | 57             |  |                  |
| Caverns 1 - Salt Water | r Service Reservoir No.1   |                     | 478               | 478               | 28-Aug-25       | 11-Apr-27        | 28-Aug-25 | 11-Apr-27 | 1              | <b>-</b>   |                  |
| SW-C1-1010             | Caverns 1 - Construction of Shotcrete  | 0%                  | 67                | 67                | 28-Aug-25       | 17-Nov-25        | 28-Aug-25 | 17-Nov-25 | 0              | Caverns 1 - Construction o   | xf Shot          |
| SW-C1-1000             | Caverns 1 - Completion of Tunnel Works   | 0%                  | 0                 | 0                 |                 | 18-Oct-25        |           | 18-Oct-25 | 0              | ੈ Caverns 1 - Completion of πι   | ınnel\           |
| SW-C1-1020             | Caverns 1 - Construction of Cavern Lining (Total: 28.5m long, PR=12m/9d + 2wk for erection)                              | 0%                  | 39                | 39                | 18-Nov-25       | 05-Jan-26        | 18-Nov-25 | 05-Jan-26 | 0              | Caverns 1 - Construction   | on of C          |
| SW-C1-1030             | Caverns 1 - Waterproofing system and protection layer to Wall and Slab   | 0%                  | 60                | 60                | 06-Jan-26       | 06-Mar-26        | 06-Jan-26 | 06-Mar-26 | 0              | Caverns 1 - Water  | proofi           |
| SW-C1-1040             | Caverns 1 - Construction of Slab 1.6m thk for water tank area (Total: 1939m3, 12bays(11x9), PR= 15d/bay, 3workfronts)    | 0%                  | 60                | 60                | 05-Feb-26       | 22-Apr-26        | 05-Feb-26 | 22-Apr-26 | 0              | Cavems 1 - Co  | onstruc          |
| SW-C1-1060             | Caverns 1 - Construction of Slab 1.0m thk for pump/plant room area (Total:1200m3, 11bays(12x9), PR=12d/bay, 3 workfront) | 0%                  | 48                | 48                | 23-Apr-26       | 20-Jun-26        | 23-Apr-26 | 20-Jun-26 | 0              | Caverns 1  | - Can            |
| SW-C1-1050             | Caverns 1 - Construction of wall, beam & slab up to 91.35mPD for water tank area   | 0%                  | 90                | 90                | 23-Apr-26       | 21-Jul-26        | 23-Apr-26 | 21-Jul-26 | 85             | Caverns  | s 1 - C          |
| SW-C1-1070             | Caverns 1 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area                          | 0%                  | 55                | 55                | 21-Jun-26       | 14-Aug-26        | 21-Jun-26 | 14-Aug-26 | 1              | Caver  | ns 1 -           |
| SW-C1-1080             | Caverns 1 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area                              | 0%                  | 60                | 60                | 15-Aug-26       | 13-Oct-26        | 15-Aug-26 | 13-Oct-26 | 1              |  | avern            |
| SW-C1-1090             | Caverns 1 - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant          | 0%                  | 90                | 90                | 14-Oct-26       | 11-Jan-27        | 14-Oct-26 | 11-Jan-27 | 1              |  | <u> </u>         |
| SW-C1-1100             | Caverns 1 - BS, E&M works and ABWF   | 0%                  | 150               | 150               | 14-Oct-26       | 12-Mar-27        | 14-Oct-26 | 12-Mar-27 | 1              |  |                  |
| SW-C1-1110             | Caverns 1 - Completion of BS and ABWF works for Transformer Room and Switchoard Room                                     | 0%                  | 0                 | 0                 |                 | 12-Dec-26        |           | 12-Dec-26 | 1              |  | 🕏 Ca             |
| SW-C1-1120             | Caverns 1 - CLP installation works in Transformer Room and Switchoard Room   | 0%                  | 60                | 60                | 13-Dec-26       | 10-Feb-27        | 13-Dec-26 | 10-Feb-27 | 1              | -  |                  |
| SW-C1-1130             | Caverns 1 - Testing and Commissioning  | 0%                  | 90                | 90                | 12-Jan-27       | 11-Apr-27        | 12-Jan-27 | 11-Apr-27 | 1              |  |                  |
|                        |  |                     |                   |                   |                 |                  |           |           |                | <u></u>  | <u>: i i</u>     |
| 1st Programr           | me Baseline 💠 💠 1st Programme Baseline Milestone   |                     |                   |                   | 1               | 3 of 27          |           |           |                | ··   | orove            |
| Actual Work            | ♦ Milestone  |                     |                   |                   |                 |                  |           |           |                | ec-22 First Programme  |                  |
|                        |  | 1                   |                   |                   |                 |                  |           |           | 12-Ja          | an-23 Monthly Programme January 2023   |                  |

| / ID                    | Activity Name  | Activity % Complete | Dur. | Original Duration | 13t Tog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float | 2023 2024 202<br>NDJFMAMJJASONDJFMAMJJASONDJFMAMJ |                |                    |
|-------------------------|--|---------------------|------|-------------------|----------------|------------------|-----------|-----------|----------------|---|----------------|--------------------|
| Caverns 2 - Salt Wate   | er Service Reservoir No.2  |                     | 390  | 390               | 12-Dec-25      | 11-Apr-27        | 12-Dec-25 | 11-Apr-27 | 1              |   |                |                    |
| SW-C2-1010              | Caverns 2 - Construction of Shotcrete  | 0%                  | 54   | 54                | 12-Dec-25      | 20-Feb-26        | 12-Dec-25 | 20-Feb-26 | 2              |   | Caverns        | 2 - Construction   |
| SW-C2-1000              | Caverns 2 - Completion of Tunnel Works   | 0%                  | 0    | 0                 |                | 19-Jan-26        |           | 19-Jan-26 | 2              |   | Caverns 2      | - Campletion of Tu |
| SW-C2-1020              | Caverns 2 - Construction of Cavern Lining (Total: 33.2m long, PR=12m/9d + 2wk for erection)                            | 0%                  | 39   | 39                | 20-Feb-26      | 09-Apr-26        | 20-Feb-26 | 09-Apr-26 | 2              |   | <b>二</b> Cave  | rns 2 - Construct  |
| SW-C2-1030              | Caverns 2 - Waterproofing system and protection layer to Wall and Slab   | 0%                  | 60   | 60                | 10-Apr-26      | 08-Jun-26        | 10-Apr-26 | 08-Jun-26 | 2              |   |                | Caverns 2 - Wate   |
| SW-C2-1040              | Caverns 2 - Construction of Slab 1.6m thk for water tank area (Total: 1880m3, 15bays (11x7),                           | 0%                  | 60   | 60                | 11-May-26      | 22-Jul-26        | 11-May-26 | 22-Jul-26 | 1              |   | -              | Caverns 2 - C      |
| SW-C2-1060              | PR= 15d/bay, 3workfronts)  Caverns 2 - Construction of Slab 1.0m thk for pump/plant room area (Total:597m3,            | 0%                  | 36   | 36                | 23-Jul-26      | 02-Sep-26        | 23-Jul-26 | 02-Sep-26 | 1              |   |                | Caverns 2          |
|                         | 7bays(11x7.5), PR=12d/bay, 3 workfront)  | -                   |      |                   |                |                  |           |           |                |   |                |                    |
| SW-C2-1050              | Caverns 2 - Construction of wall, beam & slab up to 91.35mPD for water tank area                                       | 0%                  | 90   | 90                | 23-Jul-26      | 20-Oct-26        | 23-Jul-26 | 20-Oct-26 | 17             |   |                | Caverr             |
| SW-C2-1070              | Caverns 2 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area                        | 0%                  | 34   | 34                | 03-Sep-26      | 06-Oct-26        | 03-Sep-26 | 06-Oct-26 | 1              |   |                | Cavern             |
| SW-C2-1080              | Caverns 2 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area                            | 0%                  | 60   | 60                | 07-Sep-26      | 05-Nov-26        | 07-Sep-26 | 05-Nov-26 | 1              |   |                | Cave               |
| SW-C2-1090              | Caverns 2 - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant        | 0%                  | 90   | 90                | 07-Oct-26      | 04-Jan-27        | 07-Oct-26 | 04-Jan-27 | 68             |   |                |                    |
| SW-C2-1100              | Caverns 2 - BS, E&M works and ABWF   | 0%                  | 127  | 127               | 06-Nov-26      | 12-Mar-27        | 06-Nov-26 | 12-Mar-27 | 1              |   |                |                    |
| SW-C2-1110              | Caverns 2 - Connect power cable from SWSR1 Transformer Room & Switcboard Room to SWSR2                                 | 0%                  | 60   | 60                | 13-Dec-26      | 10-Feb-27        | 13-Dec-26 | 10-Feb-27 | 31             |   |                |                    |
| SW-C2-1130              | Caverns 2 - Testing and Commissioning  | 0%                  | 90   | 90                | 12-Jan-27      | 11-Apr-27        | 12-Jan-27 | 11-Apr-27 | 1              |   |                |                    |
| SW-C2-1120              | Caverns 2 - Energization of SWSR2  | 0%                  | 0    | 0                 | 11-Feb-27      |                  | 11-Feb-27 |           | 31             |   | <del></del>    |                    |
| Caverns 3 - Salt Wate   | er Service Reservoir No.3  |                     | 434  | 434               | 21-Oct-25      | 10-Apr-27        | 21-Oct-25 | 10-Apr-27 | 1              |   |                |                    |
| SW-C3-1010              | Caverns 3 - Construction of Shotcrete  | 0%                  | 57   | 57                | 21-Oct-25      | 29-Dec-25        | 21-Oct-25 | 29-Dec-25 | 1              |   | Caverns 3 - C  | Construction of    |
| SW-C3-1000              | Caverns 3 - Completion of Tunnel Works   | 0%                  | 0    | 0                 |                | 29-Nov-25        |           | 29-Nov-25 | 1              |   | Caverns 3 - Co | mpletion of Tuni   |
| SW-C3-1020              | Caverns 3 - Construction of Cavern Lining (Total: 28.3m long, PR=12m/9d + 2wk for erection)                            | 0%                  | 39   | 39                | 30-Dec-25      | 13-Feb-26        | 30-Dec-25 | 13-Feb-26 | 1              |   | Caverns 3      | 3 - Construction   |
| SW-C3-1030              | Caverns 3 - Waterproofing system and protection layer to Wall and Slab   | 0%                  | 60   | 60                | 14-Feb-26      | 14-Apr-26        | 14-Feb-26 | 14-Apr-26 | 1              |   | Cave           | erns 3 - Waterpro  |
| SW-C3-1040              | Caverns 3 - Construction of Slab 1.6m thk for water tank area (Total: 1961m3, 12bays (11x9), PR= 15d/bay, 3workfronts) | 0%                  | 60   | 60                | 13-Mar-26      | 27-May-26        | 13-Mar-26 | 27-May-26 | 1              |   | Ç.             | averns 3 - Cons    |
| SW-C3-1060              | Caverns 3 - Construction of Slab 1.0m thk for pump/plant room area (Total:597m3, 11bays                                | 0%                  | 48   | 48                | 28-May-26      | 24-Jul-26        | 28-May-26 | 24-Jul-26 | 1              |   |                | Caverns 3 - 0      |
| SW-C3-1050              | (11x9), PR=12d/bay, 3 workfront)  Caverns 3 - Construction of wall, beam & slab up to 91.35mPD for water tank area     | 0%                  | 90   | 90                | 28-May-26      | 25-Aug-26        | 28-May-26 | 25-Aug-26 | 50             |   |                | Caverns 3          |
| SW-C3-1070              | Caverns 3 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area                        | 0%                  | 50   | 50                | 25-Jul-26      | 12-Sep-26        | 25-Jul-26 | 12-Sep-26 | 2              |   |                | Caverns            |
| SW-C3-1080              | Caverns 3 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area                            | 0%                  | 60   | 60                | 14-Aug-26      | 12-Oct-26        | 14-Aug-26 | 12-Oct-26 | 2              |   |                | Caverr             |
| SW-C3-1090              | Caverns 3 - Construction of remaining works incl. staircase, partition wall and other civil works for                  | 0%                  | 90   | 90                | 13-Oct-26      | 10-Jan-27        | 13-Oct-26 | 10-Jan-27 | 62             |   |                |                    |
| SW-C3-1100              | E&M plant  Caverns 3 - BS, E&M works and ABWF  | 0%                  | 150  | 150               | 13-Oct-26      | 11-Mar-27        | 13-Oct-26 | 11-Mar-27 | 2              |   |                |                    |
|                         |  | 2,0                 | .50  |                   |                |                  | 13 03.20  | reset del | _              |   |                |                    |
|                         | nme Baseline ♦ ♦ 1st Programme Baseline Milestone  |                     |      |                   |                | 4 of 27          |           |           |                | Date Revision                                     | Checked        | Approve            |
| 1st Program             | ine baseline V Visi Flogranine baseline iviliestone  |                     |      |                   |                | 4 01 21          |           |           |                | TOVISION  | 0.100.100      |                    |
| 1st Program Actual Work | -  |                     |      |                   | '              | 4 01 27          |           |           | 12-De          |   | 011001101      |                    |

| rity ID               | Activity Name   | Activity % Complete | 1st Prog.<br>Dur. | . Original<br>Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float |                      |             |          | 2024<br> |           |         | 2025<br>11111510 |            | )26<br>       | 202        |
|-----------------------|---|---------------------|-------------------|------------------------|-----------------|------------------|-----------|-----------|----------------|----------------------|-------------|----------|----------|-----------|---------|------------------|------------|---------------|------------|
| SW-C3-1110            | Caverns 3 - Connect power cable from SWSR1 Transformer Room & Switcboard Room to SWSR3                                  | 0%                  | 60                | 60                     | 13-Dec-26       | 10-Feb-27        | 13-Dec-26 | 10-Feb-27 | 31             | N D J F M A M J J A  | SONDJ       | FIMIA    | JJAS     | ן מואול   | r V A M | JJAS             | ND JEMAM J |               | DJ J F I W |
| SW-C3-1130            | Caverns 3 - Testing and Commissioning   | 0%                  | 90                | 90                     | 11-Jan-27       | 10-Apr-27        | 11-Jan-27 | 10-Apr-27 | 2              |                      |             |          |          |           |         |                  |            |               | -          |
| SW-C3-1120            | Caverns 3 - Energization of SWSR3   | 0%                  | 0                 | 0                      | 11-Feb-27       |                  | 11-Feb-27 |           | 31             |                      | \           |          |          |           |         |                  |            |               | 8          |
| Caverne 4 - Freeh Wa  | ater Service Reservoir No.1   |                     | 349               | 349                    | 02-Feb-26       | 10-Apr-27        | 02-Feb-26 | 10-Apr-27 | 1              |                      |             |          |          |           |         |                  |            |               |            |
| Cavellis 4 - Flesh Wa | atel del reservoir not i  |                     | 349               | 349                    | 02-1 65-20      |                  |           |           |                |                      |             |          |          |           |         |                  |            |               |            |
| SW-C4-1010            | Caverns 4 - Construction of Shotcrete   | 0%                  | 56                | 56                     | 02-Feb-26       | 14-Apr-26        | 02-Feb-26 | 14-Apr-26 | 20             |                      |             |          |          |           |         |                  | Ca         | erns 4 - Con  | structio   |
| SW-C4-1000            | Caverns 4 - Completion of Tunnel Works  | 0%                  | 0                 | 0                      |                 | 15-Mar-26        |           | 15-Mar-26 | 1              |                      |             |          |          |           |         |                  | \$ Cave    | ms 4 - Compl  | etion o    |
| SW-C4-1020            | Caverns 4 - Construction of Cavern Lining (Total: 20.3m long, PR=12m/9d + 2wk for erection)                             | 0%                  | 30                | 30                     | 30-Mar-26       | 07-May-26        | 30-Mar-26 | 07-May-26 | 1              |                      |             |          |          |           |         |                  | <b>=</b> c | averns 4 - Co | nstruc     |
| SW-C4-1030            | Caverns 4 - Waterproofing system and protection layer to Wall and Slab  | 0%                  | 50                | 50                     | 08-May-26       | 26-Jun-26        | 08-May-26 | 26-Jun-26 | 1              |                      |             |          |          |           |         |                  |            | Caverns 4     | - Wate     |
| SW-C4-1040            | Caverns 4 - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR= 15d/bay, 3workfronts)  | 0%                  | 60                | 60                     | 28-May-26       | 07-Aug-26        | 28-May-26 | 07-Aug-26 | 1              |                      |             |          |          |           |         |                  | •          | Caverns       | 34 - C     |
| SW-C4-1060            | Caverns 4 - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) | 0%                  | 24                | 24                     | 08-Aug-26       | 04-Sep-26        | 08-Aug-26 | 04-Sep-26 | 1              |                      |             |          |          |           |         |                  |            | Cave          | ns 4 -     |
| SW-C4-1050            | Caverns 4 - Construction of wall, beam & slab up to 91.35mPD for water tank area  | 0%                  | 90                | 90                     | 08-Aug-26       | 05-Nov-26        | 08-Aug-26 | 05-Nov-26 | 8              |                      |             |          |          |           |         |                  |            |               | Caverr     |
| SW-C4-1070            | Caverns 4 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area                         | 0%                  | 38                | 38                     | 05-Sep-26       | 12-Oct-26        | 05-Sep-26 | 12-Oct-26 | 2              |                      |             |          |          |           |         |                  |            | 📮 Ca          | verns      |
| SW-C4-1080            | Caverns 4 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area                             | 0%                  | 60                | 60                     | 13-Sep-26       | 11-Nov-26        | 13-Sep-26 | 11-Nov-26 | 2              |                      |             |          |          |           |         |                  |            |               | Caver      |
| SW-C4-1090            | Caverns 4 - Construction of remaining works incl. staircase, partition wall and other civil works for<br>E&M plant      | 0%                  | 60                | 60                     | 12-Nov-26       | 10-Jan-27        | 12-Nov-26 | 10-Jan-27 | 62             |                      |             |          |          |           |         |                  |            |               | <b>=</b>   |
| SW-C4-1100            | Caverns 4 - BS, E&M works and ABWF  | 0%                  | 120               | 120                    | 12-Nov-26       | 11-Mar-27        | 12-Nov-26 | 11-Mar-27 | 2              |                      |             |          |          |           |         |                  |            | -             | Ħ          |
| SW-C4-1110            | Caverns 4 - Connect power cable from SWSR1 Transformer Room & Switcboard Room to SWSR4                                  | 0%                  | 60                | 60                     | 13-Dec-26       | 10-Feb-27        | 13-Dec-26 | 10-Feb-27 | 31             |                      |             |          |          |           |         |                  |            |               |            |
| SW-C4-1130            | Caverns 4 - Testing and Commissioning   | 0%                  | 90                | 90                     | 11-Jan-27       | 10-Apr-27        | 11-Jan-27 | 10-Apr-27 | 2              |                      |             |          |          |           |         |                  |            |               | Ė          |
| SW-C4-1120            | Caverns 4 - Energization of SWSR4   | 0%                  | 0                 | 0                      | 11-Feb-27       |                  | 11-Feb-27 |           | 31             |                      |             |          |          |           |         |                  |            |               | \$         |
| Caverns 5 - Fresh Wa  | ater Service Reservoir No.2   |                     | 392               | 392                    | 10-Dec-25       | 10-Apr-27        | 10-Dec-25 | 10-Apr-27 | 1              |                      |             |          |          |           |         |                  |            |               | +          |
| SW-C5-1010            | Caverns 5 - Construction of Shotcrete   | 0%                  | 52                | 52                     | 10-Dec-25       | 11-Feb-26        | 10-Dec-25 | 11-Feb-26 | 3              |                      |             |          |          |           |         |                  | Caverns    | 5 - Construc  | tion of    |
| SW-C5-1000            | Caverns 5 - Completion of Tunnel Works  | 0%                  | 0                 | 0                      |                 | 12-Jan-26        |           | 12-Jan-26 | 3              | -                    |             |          |          |           |         |                  | Caverns 5  | - Completion  | of Tu      |
| SW-C5-1020            | Caverns 5 - Construction of Cavern Lining (Total: 22.5m long, PR=12m/9d + 2wk for erection)                             | 0%                  | 30                | 30                     | 12-Feb-26       | 21-Mar-26        | 12-Feb-26 | 21-Mar-26 | 3              |                      |             |          |          |           |         |                  | Cave       | rns 5 - Const | ruction    |
| SW-C5-1030            | Caverns 5 - Waterproofing systemand protection layer to Wall and Slab   | 0%                  | 50                | 50                     | 22-Mar-26       | 10-May-26        | 22-Mar-26 | 10-May-26 | 4              |                      | \\          |          |          | .   .   . |         |                  |            | averns 5 + W  |            |
|                       |   | _                   |                   |                        |                 | _                |           | _         |                |                      |             |          |          |           |         |                  |            |               |            |
| SW-C5-1040            | Caverns 5 - Construction of Slab 1.6m thk for water tank area (Total: 1961m3, 12bays (11x9), PR= 15d/bay, 3workfronts)  | 0%                  | 60                | 60                     | 30-Apr-26       | 13-Jul-26        | 30-Apr-26 | 13-Jul-26 | 2              |                      |             |          |          |           |         |                  |            | Caverns 5     |            |
| SW-C5-1060            | Caverns 5 - Construction of Slab 1.0m thk for pump/plant room area (Total:986m3, 9bays (11x9), PR=12d/bay, 3 workfront) | 0%                  | 36                | 36                     | 14-Jul-26       | 24-Aug-26        | 14-Jul-26 | 24-Aug-26 | 2              |                      |             |          |          |           |         |                  |            | Caverr        | ıs 5 -     |
| SW-C5-1050            | Caverns 5 - Construction of wall, beam & slab up to 91.35mPD for water tank area  | 0%                  | 90                | 90                     | 14-Jul-26       | 11-Oct-26        | 14-Jul-26 | 11-Oct-26 | 33             |                      |             |          |          |           |         |                  |            | Ca            | verns      |
| SW-C5-1070            | Caverns 5 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area                         | 0%                  | 49                | 49                     | 25-Aug-26       | 12-Oct-26        | 25-Aug-26 | 12-Oct-26 | 2              |                      |             |          |          |           |         |                  |            | Ca            | verns      |
|                       |   | <br>                |                   | 1                      | 1               |                  |           | 1         | 1              | Deta                 | , , , , i i | <u> </u> | )        | i         | i       |                  | 01         |               |            |
| •                     | nme Baseline ♦ 1st Programme Baseline Milestone   |                     |                   |                        | •               | 15 of 27         |           |           |                | Date ec-22 First Pro | ogramme     |          | Revision |           |         |                  | Checked    | Appr          | bvec       |
| Actual Work           | ♦ Milestone   |                     |                   |                        |                 |                  |           |           | 12-De          |                      |             |          | uary 202 | )3        |         |                  |            | +             |            |
| Remaining \           | Work Summary  |                     |                   |                        |                 |                  |           |           |                | ייימזמטויוו ציניםנ   |             |          |          |           |         |                  |            |               |            |

| ID                           | Activity Name   | Activity %<br>Complete | 1st Prog.<br>Dur. | Original<br>Duration | 1st Prog. Start | 1st Prog. Finish | Start       | Finish      | Total<br>Float<br>N | 2025<br>NDJFMAMJJASONDJFMAMJJASONDJFMAMJJAS                       | 20:<br>  ND JFMAMJ      |                      |
|------------------------------|---|------------------------|-------------------|----------------------|-----------------|------------------|-------------|-------------|---------------------|---|-------------------------|----------------------|
| SW-C5-1080                   | Caverns 5 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area                     | 0%                     | 60                | 60                   | 13-Sep-26       | 11-Nov-26        | 13-Sep-26   | 11-Nov-26   | 2                   |   |                         | Caverr               |
| W-C5-1090                    | Caverns 5 - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant | 0%                     | 60                | 60                   | 12-Nov-26       | 10-Jan-27        | 12-Nov-26   | 10-Jan-27   | 2                   |   |                         | <b>—</b> C           |
| SW-C5-1100                   | Caverns 5 - BS, E&M works and ABWF  | 0%                     | 120               | 120                  | 12-Nov-26       | 11-Mar-27        | 12-Nov-26   | 11-Mar-27   | 2                   |   |                         |                      |
| SW-C5-1110                   | Caverns 5 - Connect power cable from SWSR1 Transformer Room & Switchoard Room to SWSR5                          | 0%                     | 60                | 60                   | 13-Dec-26       | 10-Feb-27        | 13-Dec-26   | 10-Feb-27   | 31                  |   |                         |                      |
| SW-C5-1130                   | Caverns 5 - Testing and Commissioning   | 0%                     | 90                | 90                   | 11-Jan-27       | 10-Apr-27        | 11-Jan-27   | 10-Apr-27   | 2                   |   |                         | -                    |
| SW-C5-1120                   | Caverns 5 - Energization of SWSR4   | 0%                     | 0                 | 0                    | 11-Feb-27       |                  | 11-Feb-27   |             | 31                  |   |                         | \$                   |
| Vater Mains Installation W   | /orks in Portion 5  |                        | 1283              | 1262                 | 09-Dec-22       | 10-Apr-27        | 09-Dec-22 A | 10-Apr-27   | 1                   | <b>Y</b>  |                         |                      |
| UU Diversion Works           |   |                        | 0                 | 28                   |                 |                  | 09-Feb-23   | 13-Mar-23   | 1208                | ▼▼ 13-Mar-23, UU Diversion Works                                  |                         |                      |
| 21.PRW.PO5.10000             | TTA Implementation for UU Diversion Works   | 0%                     | 0                 | 6                    |                 |                  | 09-Feb-23   | 15-Feb-23   | 1208                | □ TTA Implementation for UU Diversion Works                       |                         |                      |
| 21.PRW.PO5.10010             | Trench Excavation for UU Diversion Works  | 0%                     | 0                 | 11                   |                 |                  | 16-Feb-23   | 28-Feb-23   | 1208                | □ Trench Excavation for UU Diversion Works                        |                         |                      |
| 21.PRW.PO5.10020             | Public Light Cable Diversion  | 0%                     | 0                 | 5                    |                 |                  | 01-Mar-23   | 06-Mar-23   | 1212                | Il Public Light Cable Diversion                                   |                         |                      |
| 21.PRW.PO5.10030             | PCCW Cable Diversion  | 0%                     | 0                 | 9                    |                 |                  | 01-Mar-23   | 10-Mar-23   | 1208                | □ PCGW Gable Diversion  |                         |                      |
| 21.PRW.PO5.10040             | Conductivity Test for Cable   | 0%                     | 0                 | 2                    |                 |                  | 11-Mar-23   | 13-Mar-23   | 1208                | I Conductivity Test for Cable                                     |                         |                      |
| N600 and DN450 Fres          | h Water Mains & DN450 Salt Water Mains  |                        | 1280              | 1259                 | 09-Dec-22       | 07-Apr-27        | 09-Dec-22 A | 07-Apr-27   | 4                   |   |                         |                      |
| A1070                        | XP and TTAApplication   | 18.62%                 | 145               | 145                  | 09-Dec-22       | 02-May-23        | 09-Dec-22 A | 02-May-23   | 1                   | XP and TTAApplication   |                         |                      |
| A1080                        | Application of CNP to extend working hours for pipe jacking works   | 19.01%                 | 142               | 142                  | 09-Dec-22       | 29-Apr-23        | 09-Dec-22 A | 29-Apr-23   | 171                 | Application of CNP to extend working hours for pipe:jacking works |                         |                      |
| Pipe Installation by Pipe Ja | acking Method   |                        | 719               | 719                  | 30-Aug-23       | 29-Jan-26        | 30-Aug-23   | 29-Jan-26   | 289                 |   | 29-Jan-26               | ), Pipe Installation |
| Water Main Tunnel (Detail    | I A), CH 0-59 (59m) along Chuk Yuen Road - Section A1   |                        | 296               | 296                  | 02-Feb-25       | 29-Jan-26        | 02-Feb-25   | 29-Jan-26   | 283                 | <del>,</del>  | <b>7</b> 29-Jan-2€      | s, Water Main Tur    |
| SW-JPA-1000                  | TTA implementation, site clearance, road modification and site setup  | 0%                     | 14                | 14                   | 02-Feb-25       | 15-Feb-25        | 02-Feb-25   | 15-Feb-25   | 226                 | ☐ T:TA implementa   | tion, site clearance, r | oad modification     |
| SW-JPA-1010                  | SI works for trenchless design  | 0%                     | 28                | 28                   | 16-Feb-25       | 15-Mar-25        | 16-Feb-25   | 15-Mar-25   | 302                 | □ SI works for to   |                         |                      |
| SW-JPA-1020                  | UU Detection and UU diversion for construction of jacking pits  | 0%                     | 30                | 30                   | 16-Feb-25       | 17-Mar-25        | 16-Feb-25   | 17-Mar-25   | 226                 |   | and UU diversion for    | - construction of in |
|                              | , .   | _                      |                   |                      |                 |                  |             | 17-Iviai-25 |                     |   | pproval for trenchles   |                      |
| SW-JPA-1030                  | Design Approval for trenchless works  | 0%                     | 60                | 60                   | 16-Mar-25       | 14-May-25        | 16-Mar-25   | •           |                     |   |                         |                      |
| SW-JPA-1040                  | Installation of instrumentation and monitoring device and condition survey                                      | 0%                     | 14                | 14                   | 18-Mar-25       | 31-Mar-25        | 18-Mar-25   | 31-Mar-25   | 346                 |   | instrumentation and     |                      |
| SW-JPA-1050                  | Construction of receiving pit   | 0%                     | 75                | 75                   | 18-Mar-25       | 31-May-25        | 18-Mar-25   | 31-May-25   |                     |   | ction of receiving pit  |                      |
| SW-JPA-1060                  | Construction of launching pit   | 0%                     | 75                | 75                   | 18-Mar-25       | 31-May-25        | 18-Mar-25   | 31-May-25   |                     |   | ction of launching pit  |                      |
| SW-JPA-1070                  | Advance preparation works at launching pit  | 0%                     | 14                | 14                   | 01-Jun-25       | 14-Jun-25        | 01-Jun-25   | 14-Jun-25   | 226                 |   | e preparation works     |                      |
| SW-JPA-1080                  | Plant mobilization and set-up at Launching pit  | 0%                     | 45                | 45                   | 10-Sep-25       | 24-Oct-25        | 10-Sep-25   | 24-Oct-25   | 139                 |   | Plant mobilization      | and set-up at La     |
| 1st Programme                | Possilina A 1st Programma Possilina Milaster -  |                        | ,                 |                      |                 | 0 -107           |             |             |                     | Date Revision   | Checked                 | Approve              |
| <u> </u>                     | -   |                        |                   |                      | 1               | 6 of 27          |             |             | 12-Dec              |   | 3.133100                | , 451040             |
| Actual Work                  | ♦ Milestone   |                        |                   |                      |                 |                  |             |             | -                   | <u> </u>  | +                       | <del> </del>         |
| Remaining Work               | k V Summary   |                        |                   |                      |                 |                  |             |             | 12-Jan-             | n-23 Monthly Programme January 2023                               |                         | 1                    |

Monthly Programme January 2023

|  | ACTIVITY IN   | Activ          | tivity Name                                  |                              |       | Activity % Complete | 1st Prog.<br>Dur. | Original Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float |   | 023<br>11 11 A1 S1 O1 A |                 | 2024<br>Mululalsia                    |                  | 2025<br>M II IA S O |                   | 2026<br>11 11 A1 S1O1 | NID II   |
|--|---------------|----------------|--|------------------------------|-------|---------------------|-------------------|-------------------|-----------------|------------------|-----------|-----------|----------------|---|-------------------------|-----------------|---------------------------------------|------------------|---------------------|-------------------|-----------------------|----------|
| Page   Internation   Internation   Page   Internation   Interna   | Excavat       | Exca           | cavation (59m) by Pipe Jacking method, F     | PR=1.5m/d                    |       | · ·                 |                   |                   |                 | 11-Dec-25        | 25-Oct-25 | 11-Dec-25 | N L            | JITIMIAIM                                     | Jalalalal               | I DI J FIMIA    | JJAS                                  |                  |                     |                   |                       |          |
| Page   Internation   Internation   Page   Internation   Interna   | Plant de      | Plan           | ant demobilization                           |                              |       | 0%                  | 30                | 30                | 12-Dec-25       | 10-Jan-26        | 12-Dec-25 | 10-Jan-26 | 142            |   |                         |                 |                                       |                  |                     | Plant den         | nobilization          |          |
| ## Principles of the Principle |               |                |  |                              |       |                     |                   |                   |                 |                  |           |           |                |   |                         |                 |                                       |                  |                     |                   |                       |          |
| This prematation, the deterance, road modification and sele-sease   9%   14   14   16 Oct 24   29 Oct 24   20 Cot 24   25 Cot 25   17 Cot 25   | Plpe Ins      | Plpe           | oe Installation (PR=30m/wk for fitting, 18m  | /d for pipe)                 |       | 0%                  | 16                | 16                | 12-Jan-26       | 29-Jan-26        | 12-Jan-26 | 29-Jan-26 | 283            |   |                         |                 |                                       |                  |                     | □ Pipe:ins        | stallation (PF        | :=30m/v  |
| 10   Showles for fearthless design   0% 28   28   30-00x2   26-New 24   25-New 24   23   25-New 24   23   25-New 24   23   25-New 24   2   | iil A), CH 71 | (Detail A), Cl | CH 71-172 (101m) along Chuk Yuen Road - Se   | ection A2                    |       |                     | 316               | 316               | 16-Oct-24       | 07-Nov-25        | 16-Oct-24 | 07-Nov-25 | 351            |   |                         | ·               | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |                  |                     | 7 07-Nov-25, W    | ater Main Tu          | ınnel (C |
| U Detection and UU deversion for construction of justing pits  Design Approved for trenchises works  Design  | TTA imp       | TTA            | A implementation, site clearance, road mo    | odification and site setup   |       | 0%                  | 14                | 14                | 16-Oct-24       | 29-Oct-24        | 16-Oct-24 | 29-Oct-24 | 207            |   |                         |                 |                                       | ፱ TTAimplem      | entation, site d    | earance, road m   | nodification a        | ınd site |
| Design Approval for frenchless works  Office of Part Advances of receiving pt  Office of Part mobilization and security pt  Office of Part mobilization and  | SI works      | SIw            | works for trenchless design                  |                              |       | 0%                  | 28                | 28                | 30-Oct-24       | 26-Nov-24        | 30-Oct-24 | 26-Nov-24 | 283            |   |                         |                 |                                       | SI works t       | or trenchless d     | esign             |                       |          |
| Part demokation of instrumentation and monitoring device and condition survey  | UU Dete       | UU I           | J Detection and UU diversion for construc    | tion of jacking pits         |       | 0%                  | 30                | 30                | 30-Oct-24       | 28-Nov-24        | 30-Oct-24 | 28-Nov-24 | 207            |   |                         |                 |                                       | UU Detec         | tion and UU di      | ersion for const  | truction of ja        | cking p  |
| Part demokation of instrumentation and monitoring device and condition survey  | Design A      | Desi           | esian Approval for trenchless works          |                              |       | 0%                  | 60                | 60                | 27-Nov-24       | 25-Jan-25        | 27-Nov-24 | 25-Jan-25 | 283            |   |                         |                 |                                       | Design           | ın Approval for     | trenchless work   | s                     |          |
| Construction of receiving pit   0% 75 75 29-Nov-24 11-Feb-25 29-Nov-25 137 13 11-Feb-25 29-Nov-25 137 11-Feb-25 29-Nov-25 137 11-Feb-25 29-Nov-25 137 11-Feb-25 29-Nov-25 137 11-Feb-25 29-Nov-25 139 11-Feb-25 29-Nov-25 10-Feb-25 29-Nov-25 139 11-Feb-25 29-Nov-25 10-Feb-25 29-Nov-25 10-Feb-25 29-Nov-25 10-Feb-25 29-Nov-25 10-Feb-25 29-Nov-25 10-Feb-25 29-Nov-25 10-Feb   |               |                |  |                              |       |                     |                   |                   |                 |                  |           |           |                |   | .4                      |                 |                                       |                  |                     |                   |                       |          |
| Construction of issunching pit  O'N 75 75 29-Nov-24 11-Feb-25 29-Nov-24 11-Feb-25 207  Advance preparation works at issunching pit  O'N 14 14 12-Feb-25 25-Feb-25 12-Feb-25 207  Plant mobilization and sel-up at Launching pit  O'N 45 45 07-May-25 29-Jun-25 07-May-25 29-Jun-25 137  Description [Plant demobilization of selection of  | Installati    | Insta          | stallation of instrumentation and monitoring | g device and condition surve | ırvey | 0%                  | 14                | 14                | 29-Nov-24       | 12-Dec-24        | 29-Nov-24 | 12-Dec-24 | 327            |   |                         |                 |                                       | ■ Installation   | on of instrumen     | ation and monit   | oring device          | and co   |
| Advance preparation works at baunching pit  0% 14 14 12-Feb-25 25-Feb-25 12-Feb-25 25-Feb-25 207  Part mobilization and set-up at Launching pit  0% 45 45 07-May-25 20-Jun-25 07-May-25 20-Jun-25 137  Part mobilization and set-up at Launching pit  0% 45 45 07-May-25 20-Jun-25 07-May-25 20-Jun-25 137  Part demobilization  0% 88 68 21-Jun-25 09-Sep-25 21-Jun-25 09-Sep-25 113  Part demobilization  0% 30 30 10-Sep-25 09-Oct-25 10-Sep-25 19-9  10 Pert demobilization  0% 24 24 10-Oct-25 07-Nov-25 351  20 Pipe Installation (PR-30m/wk for fitting, 18m/d for pipe)  0% 24 24 10-Oct-25 07-Nov-25 351  20 Pipe Installation (PR-30m/wk for fitting, 18m/d for pipe)  10 TA implementation, sile clearance, road modification and site setup  0% 14 14 30-Aug-23 10-Mar-25 30-Aug-23 10-Mar-25 30-Aug-23 172  10 Si works for trenchiess design  10 Si works for trenchiess design  10 UI Detection and UI diversion for construction of jacking pits  10 Design Approval for the chiesis works  10 Design Approval for the mechalism and monitoring device and condition survey  10 Si works for trenchiess design  10 Design Approval for the mechalism works  10 Design Approval for the mechalism works  10 Design Approval for the mechalism and monitoring device and condition survey  10 Design Approval for the mechalism and monitoring device and condition survey  10 Design Approval for the mechalism of instrumentation and monitoring device and condition survey  11 Installation of instrumentation and monitoring device and condition survey  12 Design Approval for the mechalism and monitoring device and condition survey  13 Design Approval for the mechalism and monitoring device and condition survey  14 Target mentation of instrumentation and monitoring device and condition survey  15 Design Approval for the mechalism of instrumentation and monitoring device and condition survey  16 Const | Constru       | Con            | onstruction of receiving pit                 |                              |       | 0%                  | 75                | 75                | 29-Nov-24       | 11-Feb-25        | 29-Nov-24 | 11-Feb-25 | 266            |   |                         |                 |                                       | Cor              | struction of rec    | elving pit        |                       |          |
| Plant mobilization and set-up at Launching pit 0% 45 45 07-May-25 20-Jun-25 07-May-25 20-Jun-25 137  | Constru       | Con            | onstruction of launching pit                 |                              |       | 0%                  | 75                | 75                | 29-Nov-24       | 11-Feb-25        | 29-Nov-24 | 11-Feb-25 | 207            |   |                         |                 |                                       | Cor              | struction of lau    | nching pit        |                       |          |
| Excavation (101m) by Pipe Jacking method, PR=1.5mld 0% 68 68 21-Jun-25 09-Sep-25 21-Jun-25 09-Sep-25 113   Pant demobilization 0% 30 30 10-Sep-25 09-Oct-25 10-Sep-25 10-Oct-25 139   Pipe Installation (PR=30mlwk for fitting, 18mld for pipe) 0% 24 24 10-Oct-25 07-Nov-25 10-Oct-25 07-Nov-25 351   Pipe Installation (PR=30mlwk for fitting, 18mld for pipe) 0% 24 454 30-Aug-23 10-Mar-25 30-Aug-23 10-Mar-25 548   Pipe Installation (PR=30mlwk for fitting, 18mld for pipe) 0% 14 14 30-Aug-23 12-Sep-23 30-Aug-23 12-Sep-23 172   Pilo SI works for trenchless design 0% 28 28 13-Sep-23 10-Oct-23 13-Sep-23 172   Pilo Design Approval for trenchless design 0% 30 30 13-Sep-23 12-Oct-23 13-Sep-23 12-Oct-23 172   Pipe Installation of Instrumentation and monitoring device and condition survey 0% 14 14 13-Oct-23 26-Oct-23 13-Oct-23 26-Oct-23 10-Oct-23 19-Sep-23 10-Oct-23 19-Sep | Advance       | Adva           | Ivance preparation works at launching pit    |                              |       | 0%                  | 14                | 14                | 12-Feb-25       | 25-Feb-25        | 12-Feb-25 | 25-Feb-25 | 207            |   |                         |                 |                                       | <b>□</b> Ad      | vance prepara       | ion works at lau  | nching pit            |          |
| Plant demobilization   10   Plant demobilization   0%   30   30   10-Sep-25   09-Oct-25   10-Sep-25   09-Oct-25   139  | Plant mo      | Plan           | ant mobilization and set-up at Launching p   | oit                          |       | 0%                  | 45                | 45                | 07-May-25       | 20-Jun-25        | 07-May-25 | 20-Jun-25 | 137            |   |                         |                 |                                       |                  | Plant mo            | oilization and se | t-up at Laun          | iching p |
| Pipe Installation (PR=30mWk for fitting, 18m/d for pipe)  0% 24 24 10-Oct-25 07-Nov-25 10-Oct-25 07-Nov-25 351    Pipe Installation (PR=30mWk for fitting, 18m/d for pipe)  0% 24 24 10-Oct-25 07-Nov-25 10-Oct-25 07-Nov-25 351    Installation (PR=30mWk for fitting, 18m/d for pipe)  0% 24 454 30-Aug-23 10-Mar-25 30-Aug-23 10-Mar-25 548    Installation (PR=30mWk for fitting, 18m/d for pipe)  0% 14 14 30-Aug-23 12-Sep-23 30-Aug-23 12-Sep-23 172    Installation (PR=30mWk for fitting, 18m/d for pipe)  0% 14 14 30-Aug-23 12-Sep-23 10-Oct-23 13-Sep-23 172    Installation (PR=30mWk for fitting, 18m/d for pipe)  0% 14 14 30-Aug-23 12-Sep-23 10-Mar-25 548    Installation (PR=30mWk for fitting, 18m/d for pipe)    Installation of instrumentation and monitoring device and condition survey  0% 14 14 13-Oct-23 26-Oct-23 13-Oct-23 26-Oct-23 195   | Excavat       | Exca           | cavation (101m) by Pipe Jacking method,      | , PR=1.5m/d                  |       | 0%                  | 68                | 68                | 21-Jun-25       | 09-Sep-25        | 21-Jun-25 | 09-Sep-25 | 113            |   |                         |                 |                                       |                  | Ex                  | cavation (101m)   | by Pipe Jac           | cking m  |
| ### ### ### ### ### ### ### ### ### ##   | Plant de      | Plan           | ant demobilization                           |                              |       | 0%                  | 30                | 30                | 10-Sep-25       | 09-Oct-25        | 10-Sep-25 | 09-Oct-25 | 139            |   |                         |                 |                                       |                  |                     | Plant demobiliza  | tion                  |          |
| TTA implementation, site clearance, road modification and site setup  0% 14 14 30-Aug-23 12-Sep-23 30-Aug-23 12-Sep-23 172  □ TTA implementation, site clearance, road modification and site setup  100 SI works for trenchless design  0% 28 28 13-Sep-23 10-Oct-23 13-Sep-23 10-Oct-23 258  100 UU Detection and UU diversion for construction of jacking pits  0% 30 30 13-Sep-23 12-Oct-23 13-Sep-23 12-Oct-23 172  100 Design Approval for trenchless works  0% 60 60 11-Oct-23 09-Dec-23 11-Oct-23 09-Dec-23 258  100 Installation of instrumentation and monitoring device and condition survey  0% 14 14 13-Oct-23 26-Oct-23 13-Oct-23 26-Oct-23 13-Oct-23 26-Oct-23 195   | Plpe Ins      | Plpe           | oe Installation (PR=30m/wk for fitting, 18m  | /d for pipe)                 |       | 0%                  | 24                | 24                | 10-Oct-25       | 07-Nov-25        | 10-Oct-25 | 07-Nov-25 | 351            |   |                         |                 |                                       |                  |                     | Plpe Installatio  | n (PR≑30m             | /wk for  |
| SI works for trenchless design  0% 28 28 13-Sep-23 10-Oct-23 13-Sep-23 10-Oct-23 258  UU Detection and UU diversion for construction of jacking pits  0% 30 30 13-Sep-23 12-Oct-23 13-Sep-23 12-Oct-23 172  UD Detection and UU diversion for construction of jacking pits  0% 60 60 11-Oct-23 09-Dec-23 11-Oct-23 09-Dec-23 258  UD Design Approval for trenchless works  0% 60 60 11-Oct-23 26-Oct-23 13-Oct-23 26-Oct-23 302  Unstallation of instrumentation and monitoring device and condition survey  0% 14 14 13-Oct-23 26-Oct-23 13-Oct-23 26-Dec-23 195  UD Design Approval for trenchless design  UD Detection and UU diversion for construction of jacking pits  UD Design Approval for trenchless works  Unstallation of instrumentation and monitoring device and condition survey  US Design Approval for trenchless works  US SI works for trenchless design  UD Detection and UU diversion for construction of jacking pits  US SI works for trenchless design  US Design Approval for trenchless design  | il A), CH 61  | (Detail A), Cl | CH 613-889 (276m) along Chuk Yuen Road - S   | Section A3                   |       |                     | 454               | 454               | 30-Aug-23       | 10-Mar-25        | 30-Aug-23 | 10-Mar-25 | 548            |   | -                       |                 |                                       | <b></b> 1₁       | )-Mar-25, Wate      | r Main Tunnel (I  | Detail A), Cl         | I 613-8  |
| SI works for trenchless design  0% 28 28 13-Sep-23 10-Oct-23 13-Sep-23 10-Oct-23 258  UU Detection and UU diversion for construction of jacking pits  0% 30 30 13-Sep-23 12-Oct-23 13-Sep-23 12-Oct-23 172  UD Detection and UU diversion for construction of jacking pits  0% 60 60 11-Oct-23 09-Dec-23 11-Oct-23 09-Dec-23 258  UD Design Approval for trenchless works  0% 60 60 11-Oct-23 26-Oct-23 13-Oct-23 26-Oct-23 302  Unstallation of instrumentation and monitoring device and condition survey  0% 14 14 13-Oct-23 26-Oct-23 13-Oct-23 26-Dec-23 195  UD Design Approval for trenchless design  UD Detection and UU diversion for construction of jacking pits  UD Design Approval for trenchless works  Unstallation of instrumentation and monitoring device and condition survey  US Design Approval for trenchless works  US SI works for trenchless design  UD Detection and UU diversion for construction of jacking pits  US SI works for trenchless design  US Design Approval for trenchless design  | TTA imp       | TTA            | A implementation, site clearance, road mo    | odification and site setup   |       | 0%                  | 14                | 14                | 30-Aug-23       | 12-Sen-23        | 30-Aug-23 | 12-Sep-23 | 172            |   | ■ TT                    | A implementa    | tion site dea                         | arance road m    | odification and     | site setup        |                       |          |
| UU Detection and UU diversion for construction of jacking pits  0% 30 30 13-Sep-23 12-Oct-23 172  Design Approval for trenchless works  0% 60 60 11-Oct-23 09-Dec-23 11-Oct-23 09-Dec-23 258  Unique Installation of instrumentation and monitoring device and condition survey  0% 14 14 13-Oct-23 26-Oct-23 13-Oct-23 26-Dec-23 195  Construction of receiving pit  UU Detection and UU diversion for construction of jacking pits  UD Detection and UU diversion for construction of jacking pits  UD Detection and UU diversion for construction of jacking pits  UD Detection and UU diversion for construction of jacking pits  UD Detection and UU diversion for construction of jacking pits  Up Design Approval for trenchless works  Unique Installation of instrumentation and monitoring device and condition survey  Construction of receiving pit  | ,             |                |  | Samoustraria site setap      |       |                     |                   |                   | 0               | ·                |           | , -       |                |   |                         |                 |                                       |                  |                     |                   |                       |          |
| Design Approval for trenchless works  0% 60 60 11-Oct-23 09-Dec-23 11-Oct-23 09-Dec-23 258  Design Approval for trenchless works  0% 14 14 13-Oct-23 26-Oct-23 13-Oct-23 26-Oct-23 302  Construction of receiving pit  0% 75 75 13-Oct-23 26-Dec-23 13-Oct-23 26-Dec-23 195  Design Approval for trenchless works  Design Approval for trenchless works  Construction of instrumentation and monitoring device and condition survey.   | SI works      | SIw            | works for trenchless design                  |                              |       | 0%                  | 28                | 28                | 13-Sep-23       | 10-Oct-23        | 13-Sep-23 | 10-Oct-23 | 258            |   |                         | I works for tra | enchless des                          | sign'            |                     |                   |                       |          |
| Installation of instrumentation and monitoring device and condition survey  0% 14 14 13-Oct-23 26-Oct-23 302  Installation of instrumentation and monitoring device and condition survey  0% 75 75 13-Oct-23 26-Dec-23 13-Oct-23 195  Construction of receiving pit  Construction of receiving pit   | UU Dete       | UUI            | J Detection and UU diversion for construc    | tion of jacking pits         |       | 0%                  | 30                | 30                | 13-Sep-23       | 12-Oct-23        | 13-Sep-23 | 12-Oct-23 | 172            |   | <b>-</b> (              | JU Detection    | and UU dive                           | ersion for const | uction of jackir    | g pits            |                       |          |
| Construction of receiving pit 0% 75 75 13-Oct-23 26-Dec-23 13-Oct-23 195 🖵 Construction of receiving pit   | Design A      | Desi           | esign Approval for trenchless works          |                              |       | 0%                  | 60                | 60                | 11-Oct-23       | 09-Dec-23        | 11-Oct-23 | 09-Dec-23 | 258            |   |                         | Design A        | oproval for tr                        | enchless work    |                     |                   |                       |          |
|  | Installati    | Insta          | stallation of instrumentation and monitoring | g device and condition surve | ırvey | 0%                  | 14                | 14                | 13-Oct-23       | 26-Oct-23        | 13-Oct-23 | 26-Oct-23 | 302            |   |                         | Installation of | instrumenta                           | ition and monit  | oring device an     | d condition surv  | ey                    |          |
| 0% 75 75 13-Oct-23 26-Dec-23 172 Construction of launching pit Construction of launching pit   | Constru       | Con            | onstruction of receiving pit                 |                              |       | 0%                  | 75                | 75                | 13-Oct-23       | 26-Dec-23        | 13-Oct-23 | 26-Dec-23 | 195            |   |                         | <b>C</b> onstru | ction of recei                        | iving pit        |                     |                   |                       |          |
|  | Constru       | Con            | onstruction of launching pit                 |                              |       | 0%                  | 75                | 75                | 13-Oct-23       | 26-Dec-23        | 13-Oct-23 | 26-Dec-23 | 172            |   |                         | Constru         | ction of laund                        | ching bit        |                     |                   |                       |          |
| 70 Advance proportion works at launching pit   |               |                |  |                              |       |                     |                   |                   |                 |                  |           |           |                |   |                         |                 |                                       |                  | polajbala 4         |                   |                       |          |
| Advance preparation works at launching pit 0% 14 14 06-Jan-24 19-Jan-24 19-Jan-24 172 Advance preparation works at launching pit   |               |                |  |                              |       | 0%                  | 14                | 14                |                 |                  |           |           | 1/2            |   |                         |                 |                                       |                  |                     |                   |                       |          |
| Plant mobilization and set-up at Launching pit 0% 45 45 17-Feb-24 01-Apr-24 17-Feb-24 01-Apr-24 144 Plant mobilization and set-up at Launching pit   | Plant mo      | Plan           | ant mobilization and set-up at Launching p   | Dit .                        |       | 0%                  | 45                | 45                | 17-Feb-24       | 01-Apr-24        | 17-Feb-24 | 01-Apr-24 | 144            |   |                         | F               | Plant mobiliza                        | ation and set-u  | at Launching        | oit               |                       |          |
| 90 Excavation (276m) by Pipe Jacking method, PR=1.5m/d 0% 184 184 02-Apr-24 11-Nov-24 02-Apr-24 11-Nov-24 119 Excavation (276m) by Pipe Jacking method, PR=  | Excavat       | Exca           | cavation (276m) by Pipe Jacking method,      | , PR=1.5m/d                  |       | 0%                  | 184               | 184               | 02-Apr-24       | 11-Nov-24        | 02-Apr-24 | 11-Nov-24 | 119            |   |                         |                 |                                       | Excavation       | (276m) by Pip       | e Jacking metho   | od, PR=1.5m           | √d       |
|  | -             | !              |  |                              |       |                     | 1                 | '                 |                 | J                |           | ı         |                | <u>, , , , , , , , , , , , , , , , , , , </u> |                         |                 |                                       |                  |                     |                   | 1 -                   |          |
| ogramme Baseline 💠 💠 1st Programme Baseline Milestone 17 of 27    Work   A Milestone   Date   Revision   Checked       12-Dec-22   First Programme   | Baseline      |                |  | aseline Milestone            |       |                     |                   |                   | 1               | 7 of 27          |           |           |                |   | t Drogram               | ame.            | Revision                              |                  |                     | Checked           | <u> </u> Ар           | prove    |
| Work   |               | K              | ◆ Milestone                                  |                              |       |                     |                   |                   |                 |                  |           |           |                |   |                         |                 |                                       | 20               |                     |                   |                       |          |

Monthly Programme January 2023

12-Jan-23

Remaining Work

Critical Remaining Work

Monthly Programme January 2023

|                        |  | Activity % Complete | Dur. | Duration |           |             |           |             | Float  | ND TEMAM THASOND TEMAM THASOND TEMAM THASOND THE MAN THASOND TEMAM THASOND THE |
|------------------------|--|---------------------|------|----------|-----------|-------------|-----------|-------------|--------|--|
| SW-JPA-3110            | Plant demobilization   | 0%                  | 30   | 30       | 12-Nov-24 | 11-Dec-24   | 12-Nov-24 | 11-Dec-24   | 147    | NDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJ Plant demobilization                   |
| SW-JPA-3120            | Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)                  | 0%                  | 70   | 70       | 12-Dec-24 | 10-Mar-25   | 12-Dec-24 | 10-Mar-25   | 548    | Plpe Installation (PR=30m/wk:for fitting,18m/d for p                           |
| 3W-JFA-3120            | Pipe installation (PR-3011)/wk for litting, Torriva for pipe)              | 076                 | 70   | 70       | 12-Dec-24 | 10-iviai-25 | 12-Dec-24 | 10-iviai-25 | 340    | Fipe Ilistallation (FR-5011/Wk.idi ilitting, Ton Vu.idi p                      |
| Water Main Tunnel (Det | tail A), CH 1000-1184 (184m) along Chuk Yuen Road - Section A4             |                     | 359  | 359      | 06-Nov-24 | 21-Jan-26   | 06-Nov-24 | 21-Jan-26   | 290    | ▼ 21-Jain-26, Water Ma in Tui  |
| SW-JPA-4000            | TTA implementation, site clearance, road modification and site setup       | 0%                  | 14   | 14       | 06-Nov-24 | 19-Nov-24   | 06-Nov-24 | 19-Nov-24   | 32     | □ TTA implementation, site clearance, road modification and s                  |
| SW-JPA-4010            | SI works for trenchless design   | 0%                  | 28   | 28       | 20-Nov-24 | 17-Dec-24   | 20-Nov-24 | 17-Dec-24   | 108    | □ SI works for trenchless design   |
| SW-JPA-4020            | UU Detection and UU diversion for construction of jacking pits             | 0%                  | 30   | 30       | 20-Nov-24 | 19-Dec-24   | 20-Nov-24 | 19-Dec-24   | 32     | UU Detection and UU diversion for construction of jacking                      |
| SW-JPA-4030            | Design Approval for trenchless works                                       | 0%                  | 60   | 60       | 18-Dec-24 | 15-Feb-25   | 18-Dec-24 | 15-Feb-25   | 108    | Design Approval for trenchless works   |
| SW-JPA-4040            | Installation of instrumentation and monitoring device and condition survey | 0%                  | 14   | 14       | 20-Dec-24 | 02-Jan-25   | 20-Dec-24 | 02-Jan-25   | 152    | ☐ Installation of instrumentation and monitoring device and                    |
| SW-JPA-4050            | Construction of receiving pit  | 0%                  | 75   | 75       | 20-Dec-24 | 04-Mar-25   | 20-Dec-24 | 04-Mar-25   | 35     | Construction of receiving pit:   |
| SW-JPA-4060            | Construction of launching pit  | 0%                  | 75   | 75       | 20-Dec-24 | 04-Mar-25   | 20-Dec-24 | 04-Mar-25   | 32     | Construction of launching pit  |
| SW-JPA-4070            | Advance preparation works at launching pit                                 | 0%                  | 14   | 14       | 05-Mar-25 | 18-Mar-25   | 05-Mar-25 | 18-Mar-25   | 32     | ☐ Advance preparation works at launching pit                                   |
| SW-JPA-4080            | Plant mobilization and set-up at Launching pit                             | 0%                  | 45   | 45       | 17-Apr-25 | 31-May-25   | 17-Apr-25 | 31-May-25   | 3      | Plant mobilization and set-up at Launching pi                                  |
| SW-JPA-4090            | Excavation (184m) by Pipe Jacking method, PR=1.5m/d                        | 0%                  | 123  | 123      | 02-Jun-25 | 25-Oct-25   | 02-Jun-25 | 25-Oct-25   | 2      | Excavation (184m) by Pipe Jackin   |
| SW-JPA-4110            | Plant demobilization   | 0%                  | 30   | 30       | 26-Oct-25 | 24-Nov-25   | 26-Oct-25 | 24-Nov-25   | 3      | ■ Plant demobilization   |
| SW-JPA-4120            | Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)                  | 0%                  | 47   | 47       | 25-Nov-25 | 21-Jan-26   | 25-Nov-25 | 21-Jan-26   | 290    | Plpe Installation (PR=30m/   |
| Water Main Tunnel (Det | tail C), CH 1209-1600 (392m) along Sha Tin Pass Road - Section C1          |                     | 548  | 548      | 14-Oct-23 | 19-Aug-25   | 14-Oct-23 | 19-Aug-25   | 423    | ▼ 19-Aug-25, Water Main Tunnel (Detail   |
| SW-JPA-5000            | TTA implementation, site clearance, road modification and site setup       | 0%                  | 14   | 14       | 14-Oct-23 | 27-Oct-23   | 14-Oct-23 | 27-Oct-23   | 27     | TTA implementation, site clearance, road modification and site setup:          |
| SW-JPA-5010            | SI works for trenchless design   | 0%                  | 28   | 28       | 28-Oct-23 | 24-Nov-23   | 28-Oct-23 | 24-Nov-23   | 103    | ☐ SI works for trenchless design   |
| SW-JPA-5020            | UU Detection and UU diversion for construction of jacking pits             | 0%                  | 30   | 30       | 28-Oct-23 | 26-Nov-23   | 28-Oct-23 | 26-Nov-23   | 27     | ☐ UU Detection and UU diversion for construction of jacking pits               |
| SW-JPA-5030            | Design Approval for trenchless works                                       | 0%                  | 60   | 60       | 25-Nov-23 | 23-Jan-24   | 25-Nov-23 | 23-Jan-24   | 103    | Design Approval for trenchless works   |
| SW-JPA-5040            | Installation of instrumentation and monitoring device and condition survey | 0%                  | 14   | 14       | 27-Nov-23 | 10-Dec-23   | 27-Nov-23 | 10-Dec-23   | 147    | ☐ Installation of instrumentation and monitoring device and condition survey   |
| SW-JPA-5050            | Construction of receiving pit  | 0%                  | 75   | 75       | 27-Nov-23 | 09-Feb-24   | 27-Nov-23 | 09-Feb-24   | 32     | Construction of receiving pit  |
| SW-JPA-5060            | Construction of launching pit  | 0%                  | 75   | 75       | 27-Nov-23 | 09-Feb-24   | 27-Nov-23 | 09-Feb-24   | 27     | Construction of launching pit  |
| SW-JPA-5070            | Advance preparation works at launching pit                                 | 0%                  | 14   | 14       | 10-Feb-24 | 23-Feb-24   | 10-Feb-24 | 23-Feb-24   | 27     | Advance preparation works at launching pit                                     |
| SW-JPA-5080            | Plant mobilization and set-up at Launching pit                             | 0%                  | 45   | 45       | 18-Mar-24 | 01-May-24   | 18-Mar-24 | 01-May-24   | 4      | Plant mobilization and set-up at Launching pit                                 |
| SW-JPA-5090            | Excavation (392m) by Pipe Jacking method, PR=1.5m/d                        | 0%                  | 262  | 262      | 02-May-24 | 17-Mar-25   | 02-May-24 | 17-Mar-25   | 3      | Excavation (392m) by Pipe;Jacking method, PR≑1                                 |
| SW-JPA-5110            | Plant demobilization   | 0%                  | 30   | 30       | 18-Mar-25 | 16-Apr-25   | 18-Mar-25 | 16-Apr-25   | 3      | Plant demobilization:  |
| 1st Programm           | ne Baseline 💠 💠 1st Programme Baseline Milestone                           |                     |      |          | 1         | 8 of 27     |           |             | D:     | Date Revision Checked Approve  |
| Actual Work            | ♦ Milestone  |                     |      |          | '         | J J. L.     |           |             | 12-Dec | ec-22 First Programme  |
|                        |  |                     |      |          |           |             |           |             | 12-Jan | n-23 Monthly Programme January 2023  |

Critical Remaining Work

| ID                        | Activity Name  | Activity %<br>Complete | 1st Prog.<br>Dur. | Original Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Float  | 2023 2024 2025<br>NDJFMAMJJASONDJFMAMJJASONDJFMAMJJAS                  | 2026 2<br>2 ND JEMAM JUASON DJE                   |
|---------------------------|--|------------------------|-------------------|-------------------|-----------------|------------------|-----------|-----------|--------|--|---|
| SW-JPA-5120               | Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)  | 0%                     | 100               | 100               | 17-Apr-25       | 19-Aug-25        | 17-Apr-25 | 19-Aug-25 |        |  | pe Installation (PR=30m/wk for fitting            |
| Pipe Installation by Open | Trench Method  |                        | 1097              | 1175              | 03-May-23       | 08-Jan-27        | 26-Jan-23 | 08-Jan-27 | 4      |  | · · · · · · · · · · · · · · · · · · ·             |
| Combined Trench for FW    | DN600, DN450 & SW DN450 along Chuk Yuen Road, from A1 to A2  |                        | 65                | 160               | 07-Nov-25       | 24-Jan-26        | 16-Jul-25 | 24-Jan-26 | 4      | <u>,                                     </u>                          | ▼ 24-Jan-26, Combined Tren                        |
| 04 DDWD05 40400           | Constitution with 18th Hadestein a TTA Trial Dia 9 Franchis LUL Discussion (TTA A4)                      | 00/                    |                   | 70                |                 |                  | 40 hd 05  | 00 0-4 05 | 20     |  | Coordination with Utility Undertaking             |
| 21.PRW.PO5.10100          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A1)                | 0%                     | 0                 | 72                |                 |                  | 16-Jul-25 | 09-Oct-25 | 20     |  | Cooldination with outing conditioning             |
| SW-OTA-1000               | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-A1 (15m long)  | 0%                     | 65                | 65                | 07-Nov-25       | 24-Jan-26        | 07-Nov-25 | 24-Jan-26 | 4      |  | Sheet piling, Excavation, El                      |
| Combined Trench for FW    | DN600, DN450 & SW DN450 along Chuk Yuen Road, from A2 to A3  |                        | 749               | 827               | 03-May-23       | 06-Nov-25        | 26-Jan-23 | 06-Nov-25 | 4      | <del>                                  </del>                          | ▼ 06-Nov-25, Combined Trench for                  |
| 21.PRW.PO5.10050          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A23 to TTA-A19)    | 0%                     | 0                 | 72                |                 |                  | 26-Jan-23 | 24-Apr-23 | 9      | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UL | Diversion (TTA-A23 to TTA-A19)                    |
| SW-OTA-2210               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A23 (21m long)          | 0%                     | 31                | 31                | 03-May-23       | 08-Jun-23        | 03-May-23 | 08-Jun-23 | 4      | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road re      | nstatemen, TTA-A23 (21m long)                     |
| SW-OTA-2200               | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-A22 (21m long) | 0%                     | 65                | 65                | 09-Jun-23       | 25-Aug-23        | 09-Jun-23 | 25-Aug-23 | 4      | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Bac               | dilling & Road reinstatemen, TTA-A2               |
| SW-OTA-2190               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A21 (21m long)          | 0%                     | 31                | 31                | 26-Aug-23       | 03-Oct-23        | 26-Aug-23 | 03-Oct-23 | 4      | Sheet piling; Excavation, ELS, Pipe:Laying, Backfilling 8              | Road reinstatemen, TTA-A21 (21m                   |
| 21.PRW.PO5.10060          |  | 0%                     | 0                 | 72                |                 |                  | 26-Aug-23 | 21-Nov-23 | 25     | Goordination with Utility Undertaking, TTA, Trial Pit.8                | Excavation, UU Diversion (TTA-A18                 |
| SW-OTA-2180               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A20 (20m long)          | 0%                     | 31                | 31                | 04-Oct-23       | 09-Nov-23        | 04-Oct-23 | 09-Nov-23 | 4      | Sheet piling, Excavation, ELS, Pipe Laying, Backfillin                 | յ & Road reinstatemen, TTA-A20 (20                |
| SW-OTA-2170               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A19 (20m long)          | 0%                     | 31                | 31                | 10-Nov-23       | 15-Dec-23        | 10-Nov-23 | 15-Dec-23 | 4      | Sheet piling, Excavation, ELS, Pipe Laying, Backf                      | ling & Road reinstatemen, TTA-A19                 |
| SW-OTA-2160               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A18 (20m long)          | 0%                     | 31                | 31                | 16-Dec-23       | 24-Jan-24        | 16-Dec-23 | 24-Jan-24 | 4      | Sheet pilling, Excavation, ELS, Pipe Laying, Ba                        | жfilling & Road reinstatemen, ТТА-А               |
| SW-OTA-2150               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A17 (20m long)          | 0%                     | 31                | 31                | 25-Jan-24       | 02-Mar-24        | 25-Jan-24 | 02-Mar-24 | 4      | Sheet piling; Excavation, ELS, Pipe:Laying,                            | 3ackfilling & Road reinstatemen, TTA              |
| SW-OTA-2140               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A16 (20m long)          | 0%                     | 31                | 31                | 04-Mar-24       | 12-Apr-24        | 04-Mar-24 | 12-Apr-24 | 4      | Sheet piling, Excavation, ELS, Pipe Layir                              | g, Backfilling & Road reinstatemen, T             |
| 21.PRW.PO5.10070          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A13 to TTA-A9)     | 0%                     | 0                 | 72                |                 |                  | 04-Mar-24 | 01-Jun-24 | 25     | Coordination with Utility Undertaking                                  | TTA, Trial Pit & Excavation, UU Dive              |
| SW-OTA-2130               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A15 (20m long)          | 0%                     | 31                | 31                | 13-Apr-24       | 21-May-24        | 13-Apr-24 | 21-May-24 | 4      | Sheet piling, Excavation, ELS, Pipe La                                 | ying, Backfilling & Road reinstatemer             |
| SW-OTA-2120               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A14 (20m long)          | 0%                     | 31                | 31                | 22-May-24       | 27-Jun-24        | 22-May-24 | 27-Jun-24 | 4      | 💻 Sheet piling, Excavation, ELS, Pipa                                  | Laying, Backfilling & Road reinstater             |
| SW-OTA-2110               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A13 (20m long)          | 0%                     | 31                | 31                | 28-Jun-24       | 03-Aug-24        | 28-Jun-24 | 03-Aug-24 | 4      | Sheet piling; Excavation, ELS, F                                       | pe Laying, Backfilling & Road reinsta             |
| SW-OTA-2100               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A12 (20m long)          | 0%                     | 31                | 31                | 05-Aug-24       | 09-Sep-24        | 05-Aug-24 | 09-Sep-24 | 4      | Sheet piling, Excavation, ELS  | , Pipe Laying, Backfilling & Road rein            |
| SW-OTA-2090               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A11 (20m long)          | 0%                     | 31                | 31                | 10-Sep-24       | 18-Oct-24        | 10-Sep-24 | 18-Oct-24 | 4      | Sheet piling, Excavation, E  | LS, Pipe Laying, Backfilling & Road r             |
| 21.PRW.PO5.10080          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A8 to TTA-A5)      | 0%                     | 0                 | 72                |                 |                  | 10-Sep-24 | 05-Dec-24 | 25     | Cọordination with Utilit   | yUnderlaking, TTA, Trial Pit & Excava             |
| SW-OTA-2080               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A10 (20m long)          | 0%                     | 31                | 31                | 19-Oct-24       | 23-Nov-24        | 19-Oct-24 | 23-Nov-24 | 4      | Sheet piling, Excavation   | n, ELS, Pipe Laying, Backfilling & Roa            |
| SW-OTA-2070               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A9 (20m long)           | 0%                     | 31                | 31                | 25-Nov-24       | 02-Jan-25        | 25-Nov-24 | 02-Jan-25 | 4      | Sheet pilling, Excava  | tion, ELS, Pipe Laying, Backfilling & F           |
| SW-OTA-2060               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A8 (20m long)           | 0%                     | 31                | 31                | 03-Jan-25       | 11-Feb-25        | 03-Jan-25 | 11-Feb-25 | 4      | Sheet:pilling, Exc   | avation, ELS, Pipe Laying, Backfilling            |
| SW-OTA-2050               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A7 (20m long)           | 0%                     | 31                | 31                | 12-Feb-25       | 19-Mar-25        | 12-Feb-25 | 19-Mar-25 | 4      | Sheet piling, E  | xcavation, ELS, Pipe Laying, Backfilli            |
| 1st Programme             | Baseline ♦ ♦ 1st Programme Baseline Milestone  |                        |                   |                   |                 | 9 of 27          |           |           | ח      | Date Revision  | Checked Approve                                   |
| Actual Work               | Ist Programme Baseline Milestone      Milestone  |                        |                   |                   | 1               | 9 UI Z <i>I</i>  |           |           | 12-Dec |  | 7.45.010  |
| Remaining Work            |  |                        |                   |                   |                 |                  |           |           | 12-Jan |  | <del>                                      </del> |
|                           | in y y Cummury   | 1                      |                   |                   |                 |                  |           |           |        | , , ,  |   |

Monthly Programme January 2023

| D                        | Activity Name  | Activity % Complete | 1st Prog.<br>Dur. | Original Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float | NID IIEL    | 2023<br>IAIMIJIJIAISIOINIE | 20:<br>           | 24<br>11 A1 S1 O1 N1 F | 2025  | ASOND JEM              | 2026          |                 |
|--------------------------|--|---------------------|-------------------|-------------------|-----------------|------------------|-----------|-----------|----------------|-------------|----------------------------|-------------------|------------------------|---|------------------------|---------------|-----------------|
|                          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A4 to TTA-A2)                  | 0%                  | 0                 | 72                |                 |                  | 12-Feb-25 | 13-May-25 | 25             | 1.4 5 3 5 6 | M O O A O O N L            | J                 | A VISIOINI             |   | rdination with Utility |               |                 |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A6 (20m long)                       | 0%                  | 31                | 31                | 20-Mar-25       | 29-Apr-25        | 20-Mar-25 | 29-Apr-25 | 4              |             |                            |                   |                        | ■ Shee  | t piling, Excavation   | ı, ELS, Pipe  | Laying, Back    |
| SW-OTA-2030              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A5 (20m long)                       | 0%                  | 31                | 31                | 30-Apr-25       | 07-Jun-25        | 30-Apr-25 | 07-Jun-25 | 4              |             | +                          |                   |                        | s s   | neet piling, Excava    | tion. ELS. Pi | pe Laving. Ba   |
|                          |  |                     |                   |                   | ·               |                  |           |           |                |             |                            |                   |                        |   |                        |               |                 |
| SW-OTA-2020              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A4 (20m long)                       | 0%                  | 31                | 31                | 09-Jun-25       | 15-Jul-25        | 09-Jun-25 | 15-Jul-25 | 4              |             |                            |                   |                        |   | Sheet piling, Exca     |               |                 |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-A3 (20m long)              | 0%                  | 64                | 64                | 16-Jul-25       | 27-Sep-25        | 16-Jul-25 | 27-Sep-25 | 4              |             |                            |                   |                        | •   | Sheet piling           | Excavation    | , ELS, Pipe L   |
| SW-OTA-2000              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A2 (20m long)                       | 0%                  | 31                | 31                | 29-Sep-25       | 06-Nov-25        | 29-Sep-25 | 06-Nov-25 | 4              |             |                            |                   |                        |   | Sheet pil              | ing, Excavat  | ion, ELS, Pip   |
| Combined Trench for FW D | DN600, DN450 & SW DN450 along Chuk Yuen Road, from A3 to A4  |                     | 252               | 340               | 26-Jan-26       | 30-Nov-26        | 10-Oct-25 | 30-Nov-26 | 4              |             |                            |                   |                        |   | <b>-</b>               |               | ₹ 30-1          |
|                          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A29 to                         | 0%                  | 0                 | 72                |                 |                  | 10-Oct-25 | 06-Jan-26 | 20             |             |                            | \                 |                        |   | Coo                    | rdination wit | h Utility Unde  |
|                          | TTA-A24) Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-A29               | 0%                  | 64                | 64                | 26-Jan-26       | 16-Apr-26        | 26-Jan-26 | 16-Apr-26 | 4              |             |                            |                   |                        |   |                        | Sheet pil     | ling, Excavati  |
|                          | (18m long)   |                     |                   |                   |                 | ·                |           | •         | <u> </u>       |             |                            |                   |                        |   |                        |               |                 |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A28 (20m long)                      | 0%                  | 31                | 31                | 17-Apr-26       | 23-May-26        | 17-Apr-26 | 23-May-26 | 4              |             |                            |                   |                        |   |                        |               | t piling, Exca  |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A27 (20m long)                      | 0%                  | 31                | 31                | 26-May-26       | 02-Jul-26        | 26-May-26 | 02-Jul-26 | 4              |             |                            |                   |                        |   |                        | ■ Sh          | ieet piling, Ex |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A26 (20m long)                      | 0%                  | 31                | 31                | 03-Jul-26       | 07-Aug-26        | 03-Jul-26 | 07-Aug-26 | 4              |             |                            |                   |                        |   |                        |               | Sheet piling,   |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A25 (20m long)                      | 0%                  | 31                | 31                | 08-Aug-26       | 12-Sep-26        | 08-Aug-26 | 12-Sep-26 | 4              | 1           |                            |                   |                        | 4   |                        |               | Sheet pili      |
| SW-OTA-3000              | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-A24                        | 0%                  | 64                | 64                | 14-Sep-26       | 30-Nov-26        | 14-Sep-26 | 30-Nov-26 | 4              |             |                            |                   |                        |   |                        |               | Sha             |
|                          | (20m long)  0 along Chuk Yuen Road, from A4 to Connection Point  |                     | 31                | 126               | 01-Dec-26       | 08-Jan-27        | 08-Aug-26 | 08-Jan-27 | 4              |             |                            |                   |                        |   |                        | -             | <b></b> (       |
| 21 PRW PO5 10120         | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A30)                           | 0%                  | 0                 | 48                |                 |                  | 08-Aug-26 | 05-Oct-26 | 51             |             |                            |                   |                        |   |                        |               | Coordin         |
|                          |  |                     |                   |                   | 0.4.5           | 00 1 07          |           |           |                |             |                            |                   |                        |   |                        |               |                 |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A30 (25m long), to Connection Point | 0%                  | 31                | 31                | 01-Dec-26       | 08-Jan-27        | 01-Dec-26 | 08-Jan-27 | 4              |             |                            |                   |                        |   |                        |               |                 |
| Combined Trench for DN45 | 50 & SW DN450 along Sha Tin Pass Road, from A4 to C1   |                     | 64                | 142               | 03-May-23       | 19-Jul-23        | 26-Jan-23 | 19-Jul-23 | 1              |             | ▼ 19-Jul-23                | Combined Tre      | nch for DN4            | 50 & \$W DN450                                | along Sha Tin Pas      | s Road, fror  | nA4 to C1       |
| 21.PRW.PO5.10130         | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A31)                           | 0%                  | 0                 | 48                |                 |                  | 26-Jan-23 | 22-Mar-23 | 23             |             | Coordination with U        | tility Undertakir | ng, TTA, Trial         | Pit & Excavation                              | UU Diversion (TT       | A-A31)        |                 |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-A31 (20m long)             | 0%                  | 64                | 64                | 03-May-23       | 19-Jul-23        | 03-May-23 | 19-Jul-23 | 1              |             | Sheet pilir                | g, Excavation,    | ELS, Pipe La           | ying, Chamber, E                              | ackfilling & Road r    | einstatemen   | ı, TTA-A31 (2   |
|                          | (20111011g)  50 & SW DN450 along Tsz Wan Shan Road, from C1 to Connection Points                                     |                     | 343               | 437               | 20-Jul-23       | 10-Sep-24        | 23-Mar-23 | 10-Sep-24 | 1              | ,           |                            |                   | 10-\$€                 | p-24, Combined                                | Trench for DN450       | & SW DN4      | 50 along Tsz    |
| 21 PRW PO5 10140         | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A32 to                         | 0%                  | 0                 | 72                |                 |                  | 23-Mar-23 | 21-Jun-23 | 23             |             | Coordinatio                | with Utility Un   | dertaking, TT          | A, Trial Pit & Exca                           | vation, UU Diversi     | on (TTA-A3    | 2 to TTA-A35    |
|                          | TTA-A35)   |                     | 0.1               |                   | 00.1.100        | 04.0 : 22        |           |           |                |             |                            |                   |                        |   |                        |               |                 |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-A32 (20m long)             | 0%                  | 64                | 64                | 20-Jul-23       | 04-Oct-23        | 20-Jul-23 | 04-Oct-23 | 1              |             | She                        | et piling, Excav  | auon, ≞LS, P           | ipe Laying, Char                              | nber, Backfilling & F  | koad reinsta  | emen, IIA-      |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A33 (20m long)                      | 0%                  | 31                | 31                | 05-Oct-23       | 10-Nov-23        | 05-Oct-23 | 10-Nov-23 | 1              |             |                            | heet piling, Exc  | avation, ELS           | , Pipe Laying, Ba                             | ckfilling & Road rei   | nstatemen,    | ГТА-A33 (20     |
|                          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A36 to TTA-A39)                | 0%                  | 0                 | 72                |                 |                  | 05-Oct-23 | 30-Dec-23 | 22             |             |                            | Coordination      | with Utility U         | ndertaking, TTA,                              | Trial Pit & Excavat    | ion, UU Dive  | rsion (TTA-/    |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A34 (20m long)                      | 0%                  | 31                | 31                | 11-Nov-23       | 16-Dec-23        | 11-Nov-23 | 16-Dec-23 | 1              |             | •                          | Sheet piling, E   | xcavation, E           | LS, Pipe Laying,                              | Backfilling & Road     | reinstateme   | n, TTA-A34      |
| SW-OTA-6030              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A35 (20m                            | 0%                  | 31                | 31                | 18-Dec-23       | 25-Jan-24        | 18-Dec-23 | 25-Jan-24 | 1              |             | 1                          | Sheet pilin       | g, Excavatior          | ı, ELS, Pipe Layi                             | ng, Backfilling & Ro   | ad reinstate  | men, TTA-A      |
|                          | long)  |                     |                   |                   |                 |                  |           |           |                |             |                            |                   |                        | <u>                                      </u> |                        |               |                 |
| 1st Programme I          | Baseline ♦   |                     |                   |                   | 2               | 20 of 27         |           |           |                | Date        | First Programn             |                   | vision                 |   | Chec                   | ked           | Approve         |
|                          |  | 1                   |                   |                   |                 |                  |           |           | 12-De          |             |                            |                   |                        |   |                        |               |                 |

Critical Remaining Work

|                               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A36 (20m long)  Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A37 (20m | 0% | 31   | 31   | 26-Jan-24 | 04-Mar-24 | 26-Jan-24 | 04-Mar-24 | 1      |  |             |                           | AMJJASONDJFMAMJ<br>S, Pipe Laying, Backfilling & Road re |                     |
|-------------------------------|--|----|------|------|-----------|-----------|-----------|-----------|--------|--|-------------|---------------------------|--|---------------------|
| SW-OTA-6050                   | Sheet piling, Excavation, ELS, Pipe Laving, Backfilling & Road reinstatemen, TTA-A37 (20m.   |    |      |      |           |           |           |           |        |  |             |                           |  |                     |
|                               | long)  | 0% | 31   | 31   | 05-Mar-24 | 13-Apr-24 | 05-Mar-24 | 13-Apr-24 | 1      |  |             | Sheet piling, Excavation, | ELS, Pipe Laying, Backfilling & Roa                      | d reinstaternen,    |
|                               | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-A40 to TTA-A41 to Connection)  | 0% | 0    | 72   |           |           | 05-Mar-24 | 03-Jun-24 | 12     |  |             | Coordination with Util    | ity Undertaking, TTA, Trial Pit & Exc                    | avation, UU Dive    |
|                               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A38 (20m long)  | 0% | 31   | 31   | 15-Apr-24 | 22-May-24 | 15-Apr-24 | 22-May-24 | 1      |  |             | Sheet piling, Excavation  | on, ELS, Pipe Laying, Backfilling & R                    | oad reinstateme     |
|                               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A39 (20m long)  | 0% | 31   | 31   | 23-May-24 | 28-Jun-24 | 23-May-24 | 28-Jun-24 | 1      |  |             | Sheet piling, Excav       | ation, ELS, Pipe Laying, Backfilling &                   | & Road reinstate    |
|                               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A40 (20m long)  | 0% | 31   | 31   | 29-Jun-24 | 05-Aug-24 | 29-Jun-24 | 05-Aug-24 | 1      |  | <del></del> | Sheet piling, Exc         | avation, ELS, Pipe Laying, Backfillin                    | g & Road reinst     |
|                               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-A41 (25m long), to Connection Point   | 0% | 31   | 31   | 06-Aug-24 | 10-Sep-24 | 06-Aug-24 | 10-Sep-24 | 1      |  |             | Sheet piling, E           | Excavation, ELS, Pipe Laying, Back                       | filling & Road reir |
| Test & Commissioning and (    | Connection   |    | 89   | 89   | 09-Jan-27 | 07-Apr-27 | 09-Jan-27 | 07-Apr-27 | 5      |  |             |                           |  |                     |
| SW-TC-1000                    | Cleaning & Pressure Test for DN600 Fresh Water Main  | 0% | 45   | 45   | 09-Jan-27 | 22-Feb-27 | 09-Jan-27 | 22-Feb-27 | 5      |  |             |                           |  |                     |
| SW-TC-1020                    | Cleaning & Pressure Test for DN450 Fresh Water Main  | 0% | 45   | 45   | 16-Jan-27 | 01-Mar-27 | 16-Jan-27 | 01-Mar-27 | 5      |  |             |                           |  |                     |
| SW-TC-1040                    | Cleaning & Pressure Test for DN450 Salt Water Main   | 0% | 45   | 45   | 23-Jan-27 | 08-Mar-27 | 23-Jan-27 | 08-Mar-27 | 5      |  |             |                           |  |                     |
| SW-TC-1010                    | Connection to existing for DN600 Fresh Water Main  | 0% | 30   | 30   | 23-Feb-27 | 24-Mar-27 | 23-Feb-27 | 24-Mar-27 | 19     |  |             |                           |  |                     |
| SW-TC-1030                    | Connection to existing for DN450 Fresh Water Main  | 0% | 30   | 30   | 02-Mar-27 | 31-Mar-27 | 02-Mar-27 | 31-Mar-27 | 12     |  |             |                           |  |                     |
| SW-TC-1050                    | Connection to existing for DN450 Salt Water Main   | 0% | 30   | 30   | 09-Mar-27 | 07-Apr-27 | 09-Mar-27 | 07-Apr-27 | 5      |  |             |                           |  |                     |
| N250, DN750 and DN80          | 00 Salt Water Mains  |    | 1169 | 1247 | 03-May-23 | 10-Apr-27 | 26-Jan-23 | 10-Apr-27 | 1      | <b>+</b> + + + + + + + + + + + + + + + + + + |             |                           |  |                     |
| Pipe Installation by Pipe Jac | cking Method   |    | 1109 | 1109 | 03-May-23 | 22-Jan-27 | 03-May-23 | 22-Jan-27 | 4      | · · · · · · · · · · · · · · · · · · ·        |             |                           |  |                     |
| Water Main Tunnel (Detail     | B), CH 0-63 (63m) along Chuk Yuen Road - Section B1  |    | 328  | 328  | 09-Aug-25 | 14-Sep-26 | 09-Aug-25 | 14-Sep-26 | 110    |  |             |                           |  | <b>▼</b> 14-Sep-2   |
|                               |  |    |      | 020  | ŭ         |           | Ü         |           |        |  |             |                           |  |                     |
| SW-JPB-1000                   | TTA implementation, site clearance, road modification and site setup   | 0% | 14   | 14   | 09-Aug-25 | 22-Aug-25 | 09-Aug-25 | 22-Aug-25 | 261    |  |             |                           | □ TTA implementation, s                                  |                     |
| SW-JPB-1010                   | SI works for trenchless design   | 0% | 28   | 28   | 23-Aug-25 | 19-Sep-25 | 23-Aug-25 | 19-Sep-25 | 337    |  |             |                           | SI works for trenchle                                    | ss design           |
| SW-JPB-1020                   | UU Detection and UU diversion for construction of jacking pits   | 0% | 30   | 30   | 23-Aug-25 | 21-Sep-25 | 23-Aug-25 | 21-Sep-25 | 261    |  |             |                           | ☐ UU Detection and U                                     | U diversion for c   |
| SW-JPB-1030                   | Design Approval for trenchless works   | 0% | 60   | 60   | 20-Sep-25 | 18-Nov-25 | 20-Sep-25 | 18-Nov-25 | 337    |  |             |                           | Design Approva   | al for trenchless v |
| SW-JPB-1040                   | Installation of instrumentation and monitoring device and condition survey   | 0% | 14   | 14   | 22-Sep-25 | 05-Oct-25 | 22-Sep-25 | 05-Oct-25 | 381    |  |             |                           | lnstallation of instru                                   | mentation and n     |
| SW-JPB-1050                   | Construction of receiving pit  | 0% | 75   | 75   | 22-Sep-25 | 05-Dec-25 | 22-Sep-25 | 05-Dec-25 | 320    |  |             |                           | Construction o   | of receiving pit    |
| SW-JPB-1060                   | Construction of launching pit  | 0% | 75   | 75   | 22-Sep-25 | 05-Dec-25 | 22-Sep-25 | 05-Dec-25 | 261    |  |             |                           | Construction o   | f launching pit     |
| SW-JPB-1070                   | Advance preparation works at launching pit   | 0% | 14   | 14   | 06-Dec-25 | 19-Dec-25 | 06-Dec-25 | 19-Dec-25 | 261    |  |             |                           | . ☐ Advance pre  | paration works a    |
| SW-JPB-1080                   | Plant mobilization and set-up at Launching pit   | 0% | 45   | 45   | 22-Apr-26 | 05-Jun-26 | 22-Apr-26 | 05-Jun-26 | 138    |  |             |                           |  | Plant mobilization  |
| SW-JPB-1090                   | Excavation (63m) by Pipe Jacking method, PR=1.5m/d   | 0% | 42   | 42   | 06-Jun-26 | 27-Jul-26 | 06-Jun-26 | 27-Jul-26 | 113    |  |             |                           |  | Excavation (        |
|                               |  |    |      |      |           |           |           |           |        |  | <u> </u>    |                           | <u> </u>   | <u> </u>            |
|                               | Describes A Add Describes D P APP (  |    |      |      | -         | 21 of 27  |           |           |        | ate  |             | Revision                  | Checked  | Approv              |
| 1st Programme E               | Baseline ♦ 1st Programme Baseline Milestone  |    |      |      | 4         | 210121    |           |           | 12-Dec |  | t Programme |                           | +  | <del>  ''</del>     |

Monthly Programme January 2023

|                           | Activity Name  | Activity % Complete | Dur. | Original  <br>  Duration | 1st Prog. Start |            | Start       | Finish     | Float |   |
|---------------------------|--|---------------------|------|--------------------------|-----------------|------------|-------------|------------|-------|---|
| SW-JPB-1110               | Plant demobilization   | 0%                  | 30   | 30                       | 28-Jul-26       | 26-Aug-26  | 28-Jul-26   | 26-Aug-26  | 135   |   |
| SW-JPB-1120               | Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)                  | 0%                  | 16   | 16                       | 27-Aug-26       | 14-Sep-26  | 27-Aug-26   | 14-Sep-26  | 110   | — □ Pipę Ir   |
|                           |  |                     |      |                          |                 |            | -           |            |       |   |
| Water Main Tunnel (Detail | I B), CH 78-180 (102m) along Chuk Yuen Road - Section B2                   |                     | 351  | 351                      | 12-Apr-25       | 20-Jun-26  | 12-Apr-25   | 20-Jun-26  | 182   | V 20-Jun-26, V  |
| SW-JPB-2000               | TTA implementation, site clearance, road modification and site setup       | 0%                  | 14   | 14                       | 12-Apr-25       | 25-Apr-25  | 12-Apr-25   | 25-Apr-25  | 253   | ☐ TTA implementation, site clearance, road mod                          |
| SW-JPB-2010               | SI works for trenchless design   | 0%                  | 28   | 28                       | 26-Apr-25       | 23-May-25  | 26-Apr-25   | 23-May-25  | 329   | ☐ SI works for trenchless design  |
| SW-JPB-2020               | UU Detection and UU diversion for construction of jacking pits             | 0%                  | 30   | 30                       | 26-Apr-25       | 25-May-25  | 26-Apr-25   | 25-May-25  | 253   | ☐ UU Detection and UU diversion for constru                             |
|                           |  | 00/                 | 00   | 00                       |                 |            | ·           | -          |       |   |
| SW-JPB-2030               | Design Approval for trenchless works                                       | 0%                  | 60   | 60                       | 24-May-25       | 22-Jul-25  | 24-May-25   | 22-Jul-25  | 329   | Design Approval for trenchless works                                    |
| SW-JPB-2040               | Installation of instrumentation and monitoring device and condition survey | 0%                  | 14   | 14                       | 26-May-25       | 08-Jun-25  | 26-May-25   | 08-Jun-25  | 373   | 🔲 Installation of instrumentation and monitori                          |
| SW-JPB-2050               | Construction of receiving pit  | 0%                  | 75   | 75                       | 26-May-25       | 08-Aug-25  | 26-May-25   | 08-Aug-25  | 312   | Construction of receiving pit.  |
| SW-JPB-2060               | Construction of launching pit  | 0%                  | 75   | 75                       | 26-May-25       | 08-Aug-25  | 26-May-25   | 08-Aug-25  | 253   | Construction of launching pit   |
|                           | -  | 00/                 | 44   | 44                       | 00 4 05         |            | 00 4 05     | _          |       |   |
| SW-JPB-2070               | Advance preparation works at launching pit                                 | 0%                  | 14   | 14                       | 09-Aug-25       | 22-Aug-25  | 09-Aug-25   | 22-Aug-25  | 253   |   |
| SW-JPB-2080               | Plant mobilization and set-up at Launching pit                             | 0%                  | 45   | 45                       | 12-Dec-25       | 25-Jan-26  | 12-Dec-25   | 25-Jan-26  | 142   | Plant:mobilization and se   |
| SW-JPB-2090               | Excavation (102m) by Pipe Jacking method, PR=1.5m/d                        | 0%                  | 68   | 68                       | 26-Jan-26       | 21-Apr-26  | 26-Jan-26   | 21-Apr-26  | 114   | Excavation (102n  |
| SW-JPB-2110               | Plant demobilization   | 0%                  | 30   | 30                       | 22-Apr-26       | 21-May-26  | 22-Apr-26   | 21-May-26  | 138   | □ Plant demobiliza  |
| SW-JPB-2120               | Dischart Harris (DD-20 which for fitting 40 w/d for give)                  | 00/                 | 24   | 24                       | 00 M 00         |            | 22-May-26   | 00 1 00    | 182   | _   |
| SVV-JPB-2120              | Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)                  | 0%                  | 24   | 24                       | 22-May-26       | 20-Jun-26  | 22-IVIAy-20 | 20-Jun-26  | 102   |   |
| Water Main Tunnel (Detail | I B), CH 263-414 (152m) along Chuk Yuen Road - Section B3                  |                     | 352  | 352                      | 15-May-24       | 22-Jul-25  | 15-May-24   | 22-Jul-25  | 453   | ▼ 22-Jul-25, Water Main Tunnel (Detail B                                |
| SW-JPB-3000               | TTA implementation, site clearance, road modification and site setup       | 0%                  | 14   | 14                       | 15-May-24       | 28-May-24  | 15-May-24   | 28-May-24  | 195   | ☐ TTA implementation, site clearance, road modification and site setup  |
| SW-JPB-3010               | SI works for trenchless design   | 0%                  | 28   | 28                       | 29-May-24       | 25-Jun-24  | 29-May-24   | 25-Jun-24  | 271   | □ \$I warks for trenchless design                                       |
| SW-JPB-3020               | UU Detection and UU diversion for construction of jacking pits             | 0%                  | 30   | 30                       | 29-May-24       | 27-Jun-24  | 29-May-24   | 27-Jun-24  | 195   | □ UU Detection and UU diversion for construction of jacking pits        |
|                           | , ,  |                     |      |                          |                 |            | •           |            |       |   |
| SW-JPB-3030               | Design Approval for trenchless works                                       | 0%                  | 60   | 60                       | 26-Jun-24       | 24-Aug-24  | 26-Jun-24   | 24-Aug-24  | 271   | Design Approval for trenchless works                                    |
| SW-JPB-3040               | Installation of instrumentation and monitoring device and condition survey | 0%                  | 14   | 14                       | 28-Jun-24       | 11-Jul-24  | 28-Jun-24   | 11-Jul-24  | 315   | ☐ Installation of instrumentation and monitoring device and condition s |
| SW-JPB-3050               | Construction of receiving pit  | 0%                  | 75   | 75                       | 28-Jun-24       | 10-Sep-24  | 28-Jun-24   | 10-Sep-24  | 207   | Construcțian of receiving ;pit  |
| SW-JPB-3060               | Construction of launching pit  | 0%                  | 75   | 75                       | 28-Jun-24       | 10-Sep-24  | 28-Jun-24   | 10-Sep-24  | 195   | Construction of launching pit   |
|                           |  |                     |      |                          |                 | ·          |             |            |       |   |
| SW-JPB-3070               | Advance preparation works at launching pit                                 | 0%                  | 14   | 14                       | 11-Sep-24       | 24-Sep-24  | 11-Sep-24   | 24-Sep-24  | 195   | Advance preparation works at launching pit                              |
| SW-JPB-3080               | Plant mobilization and set-up at Launching pit                             | 0%                  | 45   | 45                       | 12-Nov-24       | 26-Dec-24  | 12-Nov-24   | 26-Dec-24  | 147   | Plant:mobilization and set-up at Launching pit                          |
| SW-JPB-3090               | Excavation (152m) by Pipe Jacking method, PR=1.5m/d                        | 0%                  | 102  | 102                      | 27-Dec-24       | 06-May-25  | 27-Dec-24   | 06-May-25  | 116   | Excavation (152m) by Pipe Jacking method,                               |
| SW-JPB-3110               | Plant demobilization   | 0%                  | 30   | 30                       | 07-May-25       | 05-Jun-25  | 07-May-25   | 05-Jun-25  | 137   | Piant demobilization  |
|                           |  | 070                 |      |                          | 0. May-20       | 55 GG17-20 | 5. Way-20   | 55 Guil-20 | 107   |   |
|                           | Deceline A 4st Due   | <u> </u>            |      |                          | -               | 0 107      |             |            | Т г   | Date Revision Checked Appro   |
| 1st Programme             | Baseline ♦ 1st Programme Baseline Milestone                                |                     |      |                          | 2               | 2 of 27    |             |            | 12-De | TOVISION ONEONED Applo  |

Critical Remaining Work

Monthly Programme January 2023

| D                      | Activity Name  | Activity % Complete | Dur. | Original<br>Duration | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total<br>Float | ND JEL | 2023 2024  AMJJASONDJFMAMJJASONDJFMAN                 | 2025 20:3<br>                                |                    |
|------------------------|--|---------------------|------|----------------------|-----------------|------------------|-----------|-----------|----------------|--------|---|--|--------------------|
| SW-JPB-3120            | Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)                  | 0%                  | 39   | 39                   | 06-Jun-25       | 22-Jul-25        | 06-Jun-25 | 22-Jul-25 | 453            |        |   | Plpe Installation (PR=30)                    |                    |
| Water Main Tunnel (Det | tail B), CH 608-760 (153m) along Chuk Yuen Road - Section B4               |                     | 302  | 302                  | 03-May-23       | 07-May-24        | 03-May-23 | 07-May-24 | 811            |        | ▼ 07-May-24, Water Main Tu                            | innel (Detail B), CH 608-760 (15             | 53m) along Chuk Y  |
| SW-JPB-4000            | TTA implementation, site clearance, road modification and site setup       | 0%                  | 14   | 14                   | 03-May-23       | 16-May-23        | 03-May-23 | 16-May-23 | 4              |        | TTA implementation, site clearance, road modification | and site setup                               |                    |
| SW-JPB-4010            | SI works for trenchless design   | 0%                  | 28   | 28                   | 17-May-23       | 13-Jun-23        | 17-May-23 | 13-Jun-23 | 66             |        | □ SI works for trenchless design                      |  |                    |
| SW-JPB-4020            | UU Detection and UU diversion for construction of jacking pits             | 0%                  | 30   | 30                   | 17-May-23       | 15-Jun-23        | 17-May-23 | 15-Jun-23 | 4              |        | UU Detection and UU diversion for construction of i   | acking pits                                  |                    |
| SW-JPB-4030            | Design Approval for trenchless works                                       | 0%                  | 60   | 60                   | 14-Jun-23       | 12-Aug-23        | 14-Jun-23 | 12-Aug-23 | 66             |        | Design Approval for trenchless works                  |  |                    |
| SW-JPB-4040            |  |                     |      | 14                   |                 | _                | 16-Jun-23 |           | 110            |        | Installation of instrumentation and monitoring devic  | oloh diodo diibololin tok                    |                    |
|                        | Installation of instrumentation and monitoring device and condition survey | 0%                  | 14   |                      | 16-Jun-23       | 29-Jun-23        |           | 29-Jun-23 |                |        |   | sand condition survey                        |                    |
| SW-JPB-4050            | Construction of receiving pit  | 0%                  | 75   | 75                   | 16-Jun-23       | 29-Aug-23        | 16-Jun-23 | 29-Aug-23 | 49             |        | Construction of receiving pit                         |  |                    |
| SW-JPB-4060            | Construction of launching pit  | 0%                  | 75   | 75                   | 16-Jun-23       | 29-Aug-23        | 16-Jun-23 | 29-Aug-23 | 4              |        | Construction of launching pit                         |  |                    |
| SW-JPB-4070            | Plant mobilization and set-up at Launching pit                             | 0%                  | 45   | 45                   | 30-Aug-23       | 13-Oct-23        | 30-Aug-23 | 13-Oct-23 | 4              |        | Plant mobilization and set-up at Launching            | pit .  |                    |
| SW-JPB-4080            | Excavation (153m) by Pipe Jacking method, PR=1.5m/d                        | 0%                  | 102  | 102                  | 14-Oct-23       | 16-Feb-24        | 14-Oct-23 | 16-Feb-24 | 3              |        | Excavation (153m) by Pipe Jacki                       | ng method, PR=1.5m/d                         |                    |
| SW-JPB-4100            | Plant demobilization   | 0%                  | 30   | 30                   | 17-Feb-24       | 17-Mar-24        | 17-Feb-24 | 17-Mar-24 | 4              |        | Plant demobilization                                  |  |                    |
| SW-JPB-4110            | Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)                  | 0%                  | 39   | 39                   | 18-Mar-24       | 07-May-24        | 18-Mar-24 | 07-May-24 | 811            |        | Plpe Installation (PR±30m                             | wk for fitting, 18m/d for pipe)              |                    |
| Water Main Tunnel (Det | tail B), CH 1000-1208 (212m) along Chuk Yuen Road - Section B5             |                     | 394  | 394                  | 14-May-25       | 05-Sep-26        | 14-May-25 | 05-Sep-26 | 117            |        | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,               | +++++++++++++++++++++++++++++++++++++++      | <b>▼</b> 05-Sep-26 |
| SW-JPB-5000            | TTA implementation, site clearance, road modification and site setup       | 0%                  | 14   | 14                   | 14-May-25       | 27-May-25        | 14-May-25 | 27-May-25 | 35             |        |   | TTA implementation, site clea                | rance, road modi   |
| SW-JPB-5010            | SI works for trenchless design   | 0%                  | 28   | 28                   | 28-May-25       | 24-Jun-25        | 28-May-25 | 24-Jun-25 | 111            |        |   | SI works for trenchless des                  | sign               |
| SW-JPB-5020            | UU Detection and UU diversion for construction of jacking pits             | 0%                  | 30   | 30                   | 28-May-25       | 26-Jun-25        | 28-May-25 | 26-Jun-25 | 35             |        |   | ☐ UU Detection and UU dive                   | rsion for construc |
| SW-JPB-5030            | Design Approval for trenchless works                                       | 0%                  | 60   | 60                   | 25-Jun-25       | 23-Aug-25        | 25-Jun-25 | 23-Aug-25 | 111            |        |   | Design Approval for tre                      | enchless works     |
| SW-JPB-5040            | Installation of instrumentation and monitoring device and condition survey | 0%                  | 14   | 14                   | 27-Jun-25       | 10-Jul-25        | 27-Jun-25 | 10-Jul-25 | 155            |        |   | Installation of instrumental                 | tion and monitorin |
| SW-JPB-5050            | Construction of receiving pit  | 0%                  | 75   | 75                   | 27-Jun-25       | 09-Sep-25        | 27-Jun-25 | 09-Sep-25 |                |        |   | Construction of recei                        |                    |
|                        | <u> </u>   |                     |      |                      |                 |                  |           | ·         |                |        |   | Construction of launc                        |                    |
| SW-JPB-5060            | Construction of launching pit  | 0%                  | 75   | 75                   | 27-Jun-25       | 09-Sep-25        | 27-Jun-25 | 09-Sep-25 |                |        |   |  |                    |
| SW-JPB-5070            | Advance preparation works at launching pit                                 | 0%                  | 14   | 14                   | 10-Sep-25       | 23-Sep-25        | 10-Sep-25 | 23-Sep-25 |                |        |   | Advance preparatio                           |                    |
| SW-JPB-5080            | Plant mobilization and set-up at Launching pit                             | 0%                  | 45   | 45                   | 26-Oct-25       | 09-Dec-25        | 26-Oct-25 | 09-Dec-25 | 3              |        |   | Plant mobiliza                               | tion and set-up at |
| SW-JPB-5090            | Excavation (212m) by Pipe Jacking method, PR=1.5m/d                        | 0%                  | 142  | 142                  | 10-Dec-25       | 05-Jun-26        | 10-Dec-25 | 05-Jun-26 | 3              |        |   |  | Excavation (212n   |
| SW-JPB-5110            | Plant demobilization   | 0%                  | 30   | 30                   | 06-Jun-26       | 05-Jul-26        | 06-Jun-26 | 05-Jul-26 | 4              |        |   | -  | Plant demobiliz    |
| SW-JPB-5120            | Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)                  | 0%                  | 54   | 54                   | 06-Jul-26       | 05-Sep-26        | 06-Jul-26 | 05-Sep-26 | 117            |        |   |  | Pipe Instal        |
| Water Main Tunnel (Det | tail D), CH 1402-1535 (134m) along Sheung Fung Street - Section D1         |                     | 341  | 341                  | 29-Nov-25       | 22-Jan-27        | 29-Nov-25 | 22-Jan-27 | 4              |        |   | <u> </u>                                     |                    |
|                        |  |                     |      |                      |                 |                  |           |           |                |        |   | <u>:::::::::::::::::::::::::::::::::::::</u> | <u> </u>           |
| 1st Programm           | ne Baseline 💠 🔷 1st Programme Baseline Milestone                           |                     |      |                      | 2               | 3 of 27          |           |           | 12-De          | Date   | Revision First Programme                              | Checked                                      | Approve            |
|                        |  |                     |      |                      |                 |                  |           |           | 140 0          | - ()() |   |  | 1                  |

Critical Remaining Work

Monthly Programme January 2023

| )                         | Activity Name   | Activity %<br>Complete | 1st Prog.<br>Dur. | Original<br>Duration | 1st Prog. Start       | 1st Prog. Finish | Start       | Finish      | Total<br>Float |           | 2023<br> A M J J A S O N [                   |                  | 2024<br>/    |                | 2025<br>                                      | SQND JEL                                      | 2026          | AISIOINID       |
|---------------------------|---|------------------------|-------------------|----------------------|-----------------------|------------------|-------------|-------------|----------------|-----------|--|------------------|--------------|----------------|---|---|---------------|-----------------|
| SW-JPB-6000               | TTA implementation, site clearance, road modification and site setup                                    | 0%                     | 14                | 14                   | 29-Nov-25             | 12-Dec-25        | 29-Nov-25   | 12-Dec-25   | 60             | VID 3 FIM | AMIJJASONI                                   | / J F M A        | JJJA         | ONDI           | 114111131314                                  |   |               | tion, site clea |
| OW IDD 0040               |   | 00/                    | 00                | 00                   | 40 D 05               | 00.1.00          | 10.0        | 00.1.00     | 400            |           |  |                  |              |                |   |   |               |                 |
| SW-JPB-6010               | SI works for trenchless design  | 0%                     | 28                | 28                   | 13-Dec-25             | 09-Jan-26        | 13-Dec-25   | 09-Jan-26   | 136            |           |  |                  |              |                |   | SIN   | works for tre | enchless des    |
| SW-JPB-6020               | UU Detection and UU diversion for construction of jacking pits  | 0%                     | 30                | 30                   | 13-Dec-25             | 11-Jan-26        | 13-Dec-25   | 11-Jan-26   | 60             |           |  |                  |              |                |   | u.  | Detection a   | and UU dive     |
| SW-JPB-6030               | Design Approval for trenchless works  | 0%                     | 60                | 60                   | 10-Jan-26             | 10-Mar-26        | 10-Jan-26   | 10-Mar-26   | 136            |           |  |                  |              |                |   |   | Design An     | proval for tre  |
|                           | этом при  | 0.0                    |                   |                      | .0 04 20              |                  | .0 04 20    |             |                |           |  |                  |              |                |   |   |               |                 |
| SW-JPB-6040               | Installation of instrumentation and monitoring device and condition survey                              | 0%                     | 14                | 14                   | 12-Jan-26             | 25-Jan-26        | 12-Jan-26   | 25-Jan-26   | 180            |           |  |                  |              |                |   | □ In:   | stallation of | instrumentat    |
| SW-JPB-6050               | Construction of receiving pit   | 0%                     | 75                | 75                   | 12-Jan-26             | 27-Mar-26        | 12-Jan-26   | 27-Mar-26   | 119            |           |  |                  |              |                |   |   | Construc      | ction of receiv |
| SW-JPB-6060               | Construction of launching pit   | 0%                     | 75                | 75                   | 12-Jan-26             | 27-Mar-26        | 12-Jan-26   | 27-Mar-26   | 60             |           |  |                  |              |                |   |   | Construc      | ction of launc  |
| 3VV-JPB-0000              | Construction of launching pit   | 076                    | 75                | 75                   | 12-Jan-20             | 21-IVIAI-20      | 12-Jan-20   | 21-iviai-20 | 00             |           |  |                  |              |                |   |   | = Construc    | Cuon or launc   |
| SW-JPB-6070               | Advance preparation works at launching pit  | 0%                     | 14                | 14                   | 28-Mar-26             | 10-Apr-26        | 28-Mar-26   | 10-Apr-26   | 60             |           |  |                  |              |                |   |   | Advanc        | e preparatio    |
| SW-JPB-6080               | Plant mobilization and set-up at Launching pit  | 0%                     | 45                | 45                   | 06-Jun-26             | 20-Jul-26        | 06-Jun-26   | 20-Jul-26   | 4              |           |  |                  |              |                |   |   |               | Plant mobiliz   |
|                           |   |                        |                   |                      |                       |                  |             |             |                |           | ;  |                  |              | }<br>}         |   |   | ·             | <u> </u>        |
| SW-JPB-6090               | Excavation (134m) by Pipe Jacking method, PR=1.5m/d   | 0%                     | 90                | 90                   | 21-Jul-26             | 05-Nov-26        | 21-Jul-26   | 05-Nov-26   | 4              |           |  |                  |              |                |   |   |               | Exc             |
| SW-JPB-6110               | Plant demobilization  | 0%                     | 30                | 30                   | 06-Nov-26             | 05-Dec-26        | 06-Nov-26   | 05-Dec-26   | 5              |           |  |                  |              |                |   |   |               | ■ PI            |
| SW-JPB-6120               | Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)   | 0%                     | 38                | 38                   | 07-Dec-26             | 22-Jan-27        | 07-Dec-26   | 22-Jan-27   | 4              |           |  |                  |              |                |   |   |               |                 |
| 3W-01 B-0120              | Tipe installation (FT-5011) with for inting, Torriva for pipe)  | 070                    | 30                | 30                   | 07-Dec-20             | 22-Jan-21        | 07-Dec-20   | 22-Jan-27   | 1              |           |  |                  |              |                |   |   |               |                 |
| Pipe Installation by Open | Trench Method   |                        | 1137              | 1215                 | 03-May-23             | 27-Feb-27        | 26-Jan-23   | 27-Feb-27   | 1              |           |  |                  |              |                |   |   |               |                 |
| Combined Trench for SW    | DN800 & DN750 along Chuk Yuen Road, from B1 to B2   |                        | 50                | 128                  | 03-May-23             | 03-Jul-23        | 26-Jan-23   | 03-Jul-23   | 1              | -         | 03-Jul-23,                                   | Combined         | rench for    | SW DN80        | & DN750 alo                                   | ng Chuk Yuen F                                | Road, from l  | B1 to B2        |
|                           |   |                        |                   | .20                  | 55 may 25             | 00 04. 20        | 20 Gail: 20 | 30 00. 20   |                |           |  |                  |              |                |   |   |               |                 |
| 21.PRW.PO5.10170          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B1)               | 0%                     | 0                 | 48                   |                       |                  | 26-Jan-23   | 22-Mar-23   | 9              |           | Coordination with U                          | Itility Under    | aking, TT    | A, Trial Pit 8 | Excavation, U                                 | U Diversion (T                                | A-B1)         |                 |
| SW-OTB-1000               | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-B1            | 0%                     | 50                | 50                   | 03-May-23             | 03-Jul-23        | 03-May-23   | 03-Jul-23   | 1              |           | Sheet piling                                 | , Excavatio      | n, ELS, Pi   | be Laying,     | Chamber, Bac                                  | kfilling & Road re                            | einstatemer   | n, TTA-B1 (1    |
|                           | (17m long)  |                        |                   |                      |                       |                  |             |             |                |           |  | <b>7</b> 00 land | M Combi      | - 4 T          | for CM/DNIGO                                  | 0 9 500750 515                                |               | - Dand 6-       |
| Combined Trench for SW    | DN800 & DN750 along Chuk Yuen Road, from B2 to B3   |                        | 151               | 231                  | 04-Jul-23             | 02-Jan-24        | 23-Mar-23   | 02-Jan-24   | 1              |           |  | ▼ UZ-Jan-z       | 24, Compi    | ied trendr     | 101 244 01490                                 | 0 & DN750 alor                                | ig Griuk rue  | en Road, Iloi   |
| 21.PRW.PO5.10180          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B2 to             | 0%                     | 0                 | 72                   |                       |                  | 23-Mar-23   | 21-Jun-23   | 9              | 1         | Coordinatio                                  | with Utility     | Undertak     | ng, TTA, T     | ial Pit & Excav                               | ation, UU Divers                              | ion (TTA-B    | 2 to TTA-B5     |
| SW-OTB-2000               | TTA-B5) Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B2 (20m long)  | 0%                     | 31                | 31                   | 04-Jul-23             | 08-Aug-23        | 04-Jul-23   | 08-Aug-23   | 1              |           | Sheet ni                                     | ing Eveava       | tion ELS     | Pine Lavin     | n Barkfilling &                               | Road reinstate                                | men TTA-F     | 32 (20m long    |
| OW-01B-2000               | cheet piling, Excavation, EEG, 1 pe Laying, Dackining & Road reinstatement, 1 174-52 (2011 only)        | 070                    | 31                | 31                   | 0 <del>1</del> -00-25 | 00-Aug-25        | 04-001-20   | 00-Aug-25   | '              |           |  |                  |              |                |   |   |               |                 |
| SW-OTB-2010               | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-B3 (20m long) | 0%                     | 58                | 58                   | 09-Aug-23             | 17-Oct-23        | 09-Aug-23   | 17-Oct-23   | 1              |           | Sh   | et piling, E     | xcavation,   | ELS, Pipe      | Laying, Cham                                  | ber, Backfilling &                            | Road reins    | statemen, TT    |
| SW-OTB-2020               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B4 (20m long)          | 0%                     | 31                | 31                   | 18-Oct-23             | 23-Nov-23        | 18-Oct-23   | 23-Nov-23   | 1              |           |  | Sheet piling     | , Excavati   | on, ELS, Pi    | be Laying, Bad                                | kfilling & Road r                             | einstateme    | n, T:TA-B4 (2   |
|                           |   |                        |                   |                      |                       |                  |             |             |                |           |  |                  |              |                |   |   |               |                 |
| SW-OTB-2030               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B5 (24m long)          | 0%                     | 31                | 31                   | 24-Nov-23             | 02-Jan-24        | 24-Nov-23   | 02-Jan-24   | 1              |           |  | Sheet pi         | ing, Exca\   | ation, ELS     | Pipe Laying, I                                | Backfilling & Roa                             | id reinstater | men, TTA-B      |
| Combined Trench for SW    | DN800 & DN750 along Chuk Yuen Road, from B3 to B4   |                        | 356               | 476                  | 03-Jan-24             | 14-Mar-25        | 09-Aug-23   | 14-Mar-25   | 1              |           | <b>V</b>                                     |                  |              |                | ▼ 14-Mar-25                                   | Combined Tre                                  | nch for SW    | DN800 & D       |
| 21.PRW.PO5.10190          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B6 to             | 0%                     | 0                 | 72                   |                       |                  | 09-Aug-23   | 03-Nov-23   | 49             |           |  | oordination      | with Utility | Undertakir     | g, TTA, Trial F                               | it & Excavation,                              | UU Diversi    | on (TTA-B6      |
| 21.11(0).10190            | TTA-B9)   | U /0                   |                   | 12                   |                       |                  | 00-Aug-20   | 00-1404-23  | 43             |           |  |                  | (17          |                |   | , -, ,, -, -, -, -, -, -, -, -, -, -,         |               |                 |
| SW-OTB-3000               | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-B6 (20m long) | 0%                     | 58                | 58                   | 03-Jan-24             | 12-Mar-24        | 03-Jan-24   | 12-Mar-24   | 1              |           |  | Sh               | et piling, l | Excavation     | ELS, Pipe La                                  | ∤ing, Chamber, I                              | Backfilling & | Road reinst     |
| SW-OTB-3010               | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B7 (20m long)          | 0%                     | 31                | 31                   | 13-Mar-24             | 22-Apr-24        | 13-Mar-24   | 22-Apr-24   | 1              |           |  |                  | Sheet pilin  | g, Excavat     | on, ELS, Pipe                                 | Laying, Backfillir                            | ng & Road r   | reinstatemen    |
|                           |   |                        |                   |                      |                       |                  |             |             |                |           |  |                  |              |                |   |   |               |                 |
| 21.PRW.PO5.10200          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B10 to TTA-B15)   | 0%                     | 0                 | 72                   |                       |                  | 13-Mar-24   | 12-Jun-24   | 22             |           |  |                  | Ucord        | ınatıon with   | Utility Underta                               | king, TTA, Trial                              | ⊢π & Excav    | ation, υψ ιβίν  |
|                           |   |                        |                   |                      |                       |                  |             |             |                | 1 1 1 1   | <u>:                                    </u> | <u> </u>         | <u> </u>     | : : : : :      | <u>: : : : : : : : : : : : : : : : : : : </u> | <u>: : : : : : : : : : : : : : : : : : : </u> | <u> </u>      | 1111            |
| = 1st Programmo           | Baseline ♦ 1st Programme Baseline Milestone   |                        |                   |                      |                       | 24 of 27         |             |             | D              | ate       |  |                  | Revisio      | 1              |   | Che   | cked          | Approv          |
| 15t Floglanine            |   |                        |                   |                      |                       |                  |             |             |                |           |  |                  |              |                |   |   |               |                 |

Critical Remaining Work

Monthly Programme January 2023

| SW-OTB-3030 SW-OTB-3040 SW-OTB-3050 SW-OTB-3060 SW-OTB-3070 SW-OTB-3080 SW-OTB | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B8 (20m long)  Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B9 (20m long)  Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B10 (20m long)  Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B11 (20m long)  Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B12 (20m long)  Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B13 (20m long) | Omplete  0%  0%  0%  0%  0% | 31<br>31<br>31<br>31 | 31<br>31<br>31 | 23-Apr-24<br>31-May-24<br>09-Jul-24 | 30-May-24<br>08-Jul-24 | 23-Apr-24<br>31-May-24 | 30-May-24  | Float N D J       | FMAMJJASONDJFMAMJJASONDJFMAMJJJASO  Sheet piling; Excavation, ELS, Pipe La |                           |                  |
|--|--|-----------------------------|----------------------|----------------|-------------------------------------|------------------------|------------------------|------------|-------------------|--|---------------------------|------------------|
| SW-OTB-3040 SW-OTB-3050 SW-OTB-3060 SW-OTB-3070 SW-OTB-3080 SW-OTB | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B10 (20m ong)  Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B11 (20m ong)  Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B12 (20m ong)   | 0%                          | 31                   |                | •                                   | 08-Jul-24              | 31-May-24              | 00 1 1 5 1 |                   |  |                           |                  |
| SW-OTB-3050 SW-OTB-3060 SW-OTB-3070 SW-OTB-3080 SW-OTB-3080 SW-OTB-3080 SW-OTB-3080 SW-OTB-3080 SW-OTB-3080  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B11 (20m ong)  Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B12 (20m ong)   | 0%                          |                      | 31             | 09-Jul-24                           |                        |                        | 08-Jul-24  | 1                 | Sheet piling, Excavation, ELS, Pipe  | Laying, Backfilling & Ro  | ad reinstaten    |
| SW-OTB-3060 SW-OTB-3070 SW-OTB-3080 SW-OTB-3080  | ong) Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B12 (20mong)   |                             | 31                   |                |                                     | 13-Aug-24              | 09-Jul-24              | 13-Aug-24  | 1                 | Sheet piling, Excavation, ELS, Pi  | oe Laying, Backfilling &  | Road reinstat    |
| SW-OTB-3070 SW-OTB-3080 SW-OTB-3080  | ong)   | 0%                          |                      | 31             | 14-Aug-24                           | 19-Sep-24              | 14-Aug-24              | 19-Sep-24  | 1                 | Sheet piling, Excavation, ELS  | Pipe Laying, Backfilling  | & Road reins     |
| SW-OTB-3080 S  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B13 (20m  |                             | 31                   | 31             | 20-Sep-24                           | 28-Oct-24              | 20-Sep-24              | 28-Oct-24  | 1                 | Sheet piling, Excavation, E  | _S, Pipe Laying, Backfil  | ing & Road r     |
|  | ong)   | 0%                          | 31                   | 31             | 29-Oct-24                           | 03-Dec-24              | 29-Oct-24              | 03-Dec-24  | 1                 | Sheet piling; Excavation   | ELS, Pipe Laying, Bac     | kfilling & Roa   |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B14 (20m ong)   | 0%                          | 31                   | 31             | 04-Dec-24                           | 11-Jan-25              | 04-Dec-24              | 11-Jan-25  | 1                 | Sheet piling, Excavat  | on, ELS, Pipe Laying, E   | 3ackfilling & R  |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-B15 (17m long)   | 0%                          | 50                   | 50             | 13-Jan-25                           | 14-Mar-25              | 13-Jan-25              | 14-Mar-25  | 1                 | Sheet:piling, Exc  | avation, ELS, Pipe Lay    | ng, Chambei      |
| Combined Trench for SW D   | N800 & DN750 along Chuk Yuen Road, from B4 to B5   |                             | 399                  | 480            | 15-Mar-25                           | 21-Jul-26              | 04-Dec-24              | 21-Jul-26  | 1                 | · · · · · · · · · · · · · · · · · · ·                                      | 2                         | 1-Jul-26, Con    |
|  | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B27 to TTA-B24)  | 0%                          | 0                    | 72             |                                     |                        | 04-Dec-24              | 04-Mar-25  | 10                | Cọoṛdiṇaṭion with  | Utility Undertaking, TT   | A, Trial Pit & E |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-B27 (20m long)   | 0%                          | 58                   | 58             | 15-Mar-25                           | 28-May-25              | 15-Mar-25              | 28-May-25  | 1                 | Sheet pilin  | g, Excavation, EL\$, Pip  | e Laying, Ch     |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B26 (20m ong)   | 0%                          | 31                   | 31             | 29-May-25                           | 05-Jul-25              | 29-May-25              | 05-Jul-25  | 1                 | ■ Sheet p  | iling, Excavation, ELS, I | Pipe Laying,     |
|  | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B23 to TTA-B19)  | 0%                          | 0                    | 72             |                                     |                        | 29-May-25              | 22-Aug-25  | 22                | Çoç  | rdination with Utility Un | lertaking, T     |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B25 (20m ong)   | 0%                          | 31                   | 31             | 07-Jul-25                           | 11-Aug-25              | 07-Jul-25              | 11-Aug-25  | 1                 | Shet   | et piling, Excavation, EL | 3, Pipe Layir    |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B24 (20m ong)   | 0%                          | 31                   | 31             | 12-Aug-25                           | 16-Sep-25              | 12-Aug-25              | 16-Sep-25  | 1                 |  | neet piling, Excavation,  | ∃LS, Pipe La     |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B23 (20m ong)   | 0%                          | 31                   | 31             | 17-Sep-25                           | 24-Oct-25              | 17-Sep-25              | 24-Oct-25  | 1                 |  | Sheet piling, Excavation  | n, ELS, Pipe     |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B22 (20m ong)   | 0%                          | 31                   | 31             | 25-Oct-25                           | 01-Dec-25              | 25-Oct-25              | 01-Dec-25  | 1                 |  | Sheet piling, Excav       | ation, ELS, P    |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B21 (20m ong)   | 0%                          | 31                   | 31             | 02-Dec-25                           | 09-Jan-26              | 02-Dec-25              | 09-Jan-26  | 1                 |  | Sheet piling, Exc         | avation, ELS     |
|  | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B18 to TTA-B16)  | 0%                          | 0                    | 72             |                                     |                        | 02-Dec-25              | 02-Mar-26  | 22                |  | Coordination              | with Utility U   |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B20 (20m ong)   | 0%                          | 31                   | 31             | 10-Jan-26                           | 14-Feb-26              | 10-Jan-26              | 14-Feb-26  | 1                 |  | Sheet piling, E           | xcavation, E     |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B19 (20m ong)   | 0%                          | 31                   | 31             | 16-Feb-26                           | 26-Mar-26              | 16-Feb-26              | 26-Mar-26  | 1                 |  | Sheet pilin               | յ, Excavatior    |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B18 (20m ong)   | 0%                          | 31                   | 31             | 27-Mar-26                           | 06-May-26              | 27-Mar-26              | 06-May-26  | 1                 |  | Sheet p                   | iling, Excava    |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B17 (20m ong)   | 0%                          | 31                   | 31             | 07-May-26                           | 12-Jun-26              | 07-May-26              | 12-Jun-26  | 1                 |  | Shee                      | et piling, Exca  |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B16 (20m ong)   | 0%                          | 31                   | 31             | 13-Jun-26                           | 21-Jul-26              | 13-Jun-26              | 21-Jul-26  | 1                 |  | <b>=</b> S                | heet piling, E   |
| Combined Trench for SW D   | N800 & DN250 along Chuk Yuen Road, from B5 to D1   |                             | 337                  | 420            | 11-Sep-24                           | 31-Oct-25              | 04-Jun-24              | 31-Oct-25  | 1                 | · · · · · · · · · · · · · · · · · · ·                                      | 31-Oct-25, Combined       | Trench for       |
|  | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B28 to TTA-B32)  | 0%                          | 0                    | 72             |                                     |                        | 04-Jun-24              | 28-Aug-24  | 12                | Coordination with Utility Underta  | ıking, TTA, Trial Pit & E | cavation, UI     |
|  | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-B28 (7m long)  | 0%                          | 44                   | 44             | 11-Sep-24                           | 04-Nov-24              | 11-Sep-24              | 04-Nov-24  | 1                 | Sheet piling, Excavation, E  | LS, Pipe Laying, Cham     | ber, Backfillir  |
|  |  |                             | ,                    | *              |                                     |                        | ,                      |            |                   |  |                           |                  |
| 1st Programme B  | Baseline ♦ 1st Programme Baseline Milestone  |                             |                      |                | 2                                   | 25 of 27               |                        |            | Date<br>12-Dec-22 | Revision First Programme   | Checked                   | Approve          |

Remaining Work

Critical Remaining Work

Summary

Monthly Programme January 2023

12-Jan-23

Monthly Programme January 2023

| ID                       | Activity Name  | Activity % Complete | 1st Prog.<br>Dur. | Original Duration |           | 1st Prog. Finish | Start     | Finish    | Total<br>Float | 2023<br>ND JEMAM J JASOND JEM         | 2024 2025<br>  A M J J A S O N D J F M A M J J A S O | 2026                    |                     |
|--------------------------|--|---------------------|-------------------|-------------------|-----------|------------------|-----------|-----------|----------------|---------------------------------------|--|-------------------------|---------------------|
| SW-OTB-5010              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B29 (7m long)                       | 0%                  | 14                | 14                | 05-Nov-24 | 20-Nov-24        | 05-Nov-24 | 20-Nov-24 | 1              | ND 1 LIMI VIM 111 VIZ VI VIM DI 1 FIM | Sheet piling, Excavation,                            |                         |                     |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B30 (20m long)                      | 0%                  | 31                | 31                | 21-Nov-24 | 28-Dec-24        | 21-Nov-24 | 28-Dec-24 | 1              |                                       | Sheet piling, Excavation                             | າກ, ELS, Pipe Laying    | , Backfilling & Ro  |
| 21.PRW.PO5.10250         | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B33 to TTA-B38)                | 0%                  | 0                 | 72                |           |                  | 21-Nov-24 | 19-Feb-25 | 22             |                                       | Coordination with                                    | Utility Undertaking, T  | TTA, Trial Pit & Ex |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B31 (20m long)                      | 0%                  | 31                | 31                | 30-Dec-24 | 07-Feb-25        | 30-Dec-24 | 07-Feb-25 | 1              |                                       | Sheet piling, Excav                                  | ation, ELS, Pipe Lay    | /ing, Backfilling & |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B32 (20m long)                      | 0%                  | 31                | 31                | 08-Feb-25 | 15-Mar-25        | 08-Feb-25 | 15-Mar-25 | 1              |                                       | 💻 Sheet piling, Exi                                  | cavation, ELS, Pipe I   | Laying, Backfilling |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B33 (20m long)                      | 0%                  | 31                | 31                | 17-Mar-25 | 25-Apr-25        | 17-Mar-25 | 25-Apr-25 | 1              |                                       | Sheet piling,  | Excavation, ELS, Pip    | oe Laying, Backfi   |
| SW-OTB-5060              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B34 (20m long)                      | 0%                  | 31                | 31                | 26-Apr-25 | 04-Jun-25        | 26-Apr-25 | 04-Jun-25 | 1              |                                       | 💻 Sheet pilii  | ng, Excavation, ELS,    | Pipe Laying, Ba     |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B35 (20m long)                      | 0%                  | 31                | 31                | 05-Jun-25 | 11-Jul-25        | 05-Jun-25 | 11-Jul-25 | 1              |                                       | ■ Sheet  | piling, Excavation, EL  | LS, Pipe Laying,    |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B36 (20m long)                      | 0%                  | 31                | 31                | 12-Jul-25 | 16-Aug-25        | 12-Jul-25 | 16-Aug-25 | 1              |                                       | She  | et piling, Excavation,  | ELS, Pipe Layin     |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B37 (20m long)                      | 0%                  | 31                | 31                | 18-Aug-25 | 22-Sep-25        | 18-Aug-25 | 22-Sep-25 | 1              |                                       | <b>=</b> 9   | Sheet piling, Excavatio | on, ELS, Pipe La    |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B38 (21m long)                      | 0%                  | 31                | 31                | 23-Sep-25 | 31-Oct-25        | 23-Sep-25 | 31-Oct-25 | 1              |                                       | <del>-</del>   | Sheet piling, Excav     | ∕ation, ELS, Pipe   |
| Open Trench for DN800 al | ong Sheung Fung Street, from D1 to Connection Point  |                     | 21                | 83                | 17-Nov-26 | 10-Dec-26        | 02-Sep-26 | 10-Dec-26 | 1              |                                       |  |                         | 10-0                |
| 21.PRW.PO5.10280         | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B39)                           | 0%                  | 0                 | 48                |           |                  | 02-Sep-26 | 30-Oct-26 | 15             |                                       |  |                         | Coordii             |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B39 (9m long), to Connection Point  | 0%                  | 21                | 21                | 17-Nov-26 | 10-Dec-26        | 17-Nov-26 | 10-Dec-26 | 1              |                                       |  |                         | She                 |
| Open Trench for DN750 al | ong Chuk Yuen Road, from B5 to Connection Point  |                     | 181               | 274               | 22-Jul-26 | 27-Feb-27        | 27-Mar-26 | 27-Feb-27 | 1              |                                       |  | <del></del>             |                     |
|                          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B40 to TTA-B42)                | 0%                  | 0                 | 72                |           |                  | 27-Mar-26 | 25-Jun-26 | 22             |                                       |  |                         | Coordination with   |
| SW-OTB-7000              | Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinstatemen, TTA-B40 (20m long)             | 0%                  | 57                | 57                | 22-Jul-26 | 25-Sep-26        | 22-Jul-26 | 25-Sep-26 | 1              |                                       |  |                         | Sheet pilir         |
| SW-OTB-7010              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B41 (20m long)                      | 0%                  | 31                | 31                | 28-Sep-26 | 04-Nov-26        | 28-Sep-26 | 04-Nov-26 | 1              |                                       |  |                         | Sheet               |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B42 (20m long)                      | 0%                  | 31                | 31                | 05-Nov-26 | 10-Dec-26        | 05-Nov-26 | 10-Dec-26 | 1              |                                       |  |                         | <b>⊫</b> She        |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B43 (20m long)                      | 0%                  | 31                | 31                | 11-Dec-26 | 19-Jan-27        | 11-Dec-26 | 19-Jan-27 | 1              |                                       |  |                         | <b>=</b> s          |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B45 (20m long)                      | 0%                  | 31                | 31                | 11-Dec-26 | 19-Jan-27        | 11-Dec-26 | 19-Jan-27 | 1              |                                       |  |                         | <b>=</b> 8          |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B44 (20m long)                      | 0%                  | 31                | 31                | 20-Jan-27 | 27-Feb-27        | 20-Jan-27 | 27-Feb-27 | 1              |                                       |  |                         | -                   |
| SW-OTB-7060              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B46 (20m long), to Connection Point | 0%                  | 31                | 31                | 20-Jan-27 | 27-Feb-27        | 20-Jan-27 | 27-Feb-27 | 1              |                                       |  |                         |                     |
| Open Trench for DN250 al | ong Sheung Fung Street, from D1 to Connection Point  |                     | 310               | 403               | 01-Nov-25 | 16-Nov-26        | 12-Jul-25 | 16-Nov-26 | 1              |                                       |  |                         | ▼ 16-No             |
|                          | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B56 to TTA-B52)                | 0%                  | 0                 | 72                |           |                  | 12-Jul-25 | 04-Oct-25 | 22             |                                       |  | Coordination with Util  | ility Undertaking,  |
| SW-OTB-8090              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B56 (20m long), to Connection Point | 0%                  | 31                | 31                | 01-Nov-25 | 06-Dec-25        | 01-Nov-25 | 06-Dec-25 | 1              |                                       |  | Sheet piling, Exc       | cavation, ELS, Pi   |
| SW-OTB-8080              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B55 (20m long)                      | 0%                  | 31                | 31                | 08-Dec-25 | 15-Jan-26        | 08-Dec-25 | 15-Jan-26 | 1              |                                       |  | 💻 Sheet piling, l       | Excavation, ELS     |
| 1st Programme            | Baseline ♦ ♦ 1st Programme Baseline Milestone  |                     |                   |                   |           | 6 of 27          |           |           |                | Date                                  | Revision   | Checked                 | Approved            |
| Actual Work              | St. Programme baseline Milestone     Milestone   |                     |                   |                   | 2         | U UI 21          |           |           | 12-De          |                                       |  |                         | 7-1                 |
|                          | ▼ ▼ 111110010110   | 1                   |                   |                   |           |                  |           |           | ı———           | , -                                   |  |                         |                     |

Critical Remaining Work

| )                        | Activity Name   | Activity % | 1st Prog | . Original | 1st Prog. Start | 1st Prog. Finish | Start     | Finish    | Total | 2023 2024 2025 2026 202                  |
|--------------------------|---|------------|----------|------------|-----------------|------------------|-----------|-----------|-------|--|
|                          |   | Complete   | Dur.     | Duration   |                 |                  |           |           | Float | NDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJF |
| SW-OTB-8070              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B54 (20m long)       | 0%         | 31       | 31         | 16-Jan-26       | 24-Feb-26        | 16-Jan-26 | 24-Feb-26 | 1     | Sheet piling, Excavation, EL             |
| 21.PRW.PO5.10270         | Coordination with Utility Undertaking, TTA, Trial Pit & Excavation, UU Diversion (TTA-B51 to TTA-B47) | 0%         | 0        | 72         |                 |                  | 16-Jan-26 | 16-Apr-26 | 22    | Coordination with Utility                |
| SW-OTB-8060              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B53 (20m long)       | 0%         | 31       | 31         | 25-Feb-26       | 01-Apr-26        | 25-Feb-26 | 01-Apr-26 | 1     | Sheet piling; Excavation,                |
|                          | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B52 (20m long)       | 0%         | 31       | 31         | 02-Apr-26       | 12-May-26        | 02-Apr-26 | 12-May-26 | 1     | Sheet piling, Excavatio                  |
| SW-OTB-8040              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B51 (20m long)       | 0%         | 31       | 31         | 13-May-26       | 18-Jun-26        | 13-May-26 | 18-Jun-26 | 1     | Sheet piling, Excav                      |
| SW-OTB-8030              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B50 (20m long)       | 0%         | 31       | 31         | 20-Jun-26       | 27-Jul-26        | 20-Jun-26 | 27-Jul-26 | 1     | Sheet piling, Exc                        |
| SW-OTB-8020              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B49 (20m long)       | 0%         | 31       | 31         | 28-Jul-26       | 01-Sep-26        | 28-Jul-26 | 01-Sep-26 | 1     | ■ Sheet piling, E                        |
| SW-OTB-8010              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B48 (20m long)       | 0%         | 31       | 31         | 02-Sep-26       | 09-Oct-26        | 02-Sep-26 | 09-Oct-26 | 1     | Sheet pilin                              |
| SW-OTB-8000              | Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen, TTA-B47 (20m long)       | 0%         | 31       | 31         | 10-Oct-26       | 16-Nov-26        | 10-Oct-26 | 16-Nov-26 | 1     | Sheetp                                   |
| Test & Commissioning and | Connection  |            | 78       | 78         | 23-Jan-27       | 10-Apr-27        | 23-Jan-27 | 10-Apr-27 | 2     |  |
| SW-TC-2000               | Cleaning & Pressure Test for DN800  | 0%         | 45       | 45         | 23-Jan-27       | 08-Mar-27        | 23-Jan-27 | 08-Mar-27 | 5     |  |
| SW-TC-2040               | Cleaning & Pressure Test for DN250  | 0%         | 45       | 45         | 23-Jan-27       | 08-Mar-27        | 23-Jan-27 | 08-Mar-27 | 5     |  |
| SW-TC-2020               | Cleaning & Pressure Test for DN750  | 0%         | 28       | 28         | 28-Feb-27       | 27-Mar-27        | 28-Feb-27 | 27-Mar-27 | 2     | _  |
| SW-TC-2010               | Connection to existing for DN800  | 0%         | 30       | 30         | 09-Mar-27       | 07-Apr-27        | 09-Mar-27 | 07-Apr-27 | 5     |  |
| SW-TC-2050               | Connection to existing for DN250  | 0%         | 30       | 30         | 09-Mar-27       | 07-Apr-27        | 09-Mar-27 | 07-Apr-27 | 5     |  |
| SW-TC-2030               | Connection to existing for DN750  | 0%         | 14       | 14         | 28-Mar-27       | 10-Apr-27        | 28-Mar-27 | 10-Apr-27 | 2     |  |

|  | 1st Programme Baseline  | <b>♦</b> | ♦ 1st Programme Baseline Milestone |  |
|--|-------------------------|----------|------------------------------------|--|
|  | Actual Work             | •        | ◆ Milestone                        |  |
|  | Remaining Work          |          | ■ Summary                          |  |
|  | Critical Remaining Work |          |                                    |  |

| Date      | Revision                       | Checked | Approved |
|-----------|--------------------------------|---------|----------|
| 12-Dec-22 | First Programme                |         |          |
| 12-Jan-23 | Monthly Programme January 2023 |         |          |
|           |                                |         |          |

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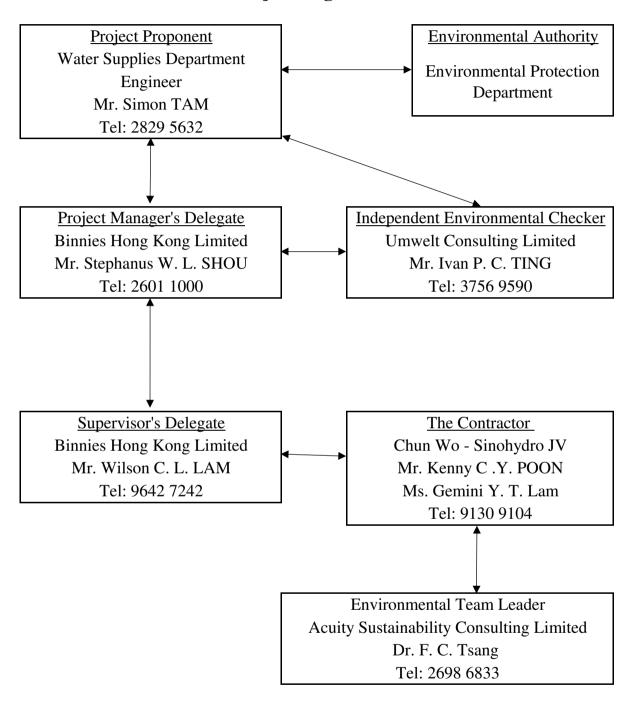


#### Appendix B

**Project Organization Chart and Key Personnel Contact** 



#### **Project Organization Chart**



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# **Appendix C Event and Action Plans**





Table C1 Event and Action Plan for Air Quality (Dust)

| Event   |   | Ac   | ction  |   |
|---|---|--|--|---|
| Event   | ET Leader   | IEC  | ER   | Contractor  |
| Action Level<br>exceedance for<br>one sample                | <ul> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ul>   | <ul> <li>Check monitoring data submitted by ET;</li> <li>Check contractor's working method.</li> </ul>   | Notify Contractor.   | <ul> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ul>   |
| Action level exceedance for two or more consecutive samples | <ul> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ul> | <ul> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ul> | <ul> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ul> | <ul> <li>Submit proposals for remedial actions to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ul> |
| Limit level exceedance for one sample                       | Identify source, investigate the causes of exceedance and propose remedial measures;  | Check monitoring data<br>submitted by ET;  | Confirm receipt of<br>notification of failure in<br>writing;   | Take immediate action to avoid further exceedance;  |





| E  | Action   |   |   |  |  |  |  |  |  |
|--|--|---|---|--|--|--|--|--|--|
| Event  | ET Leader  | IEC   | ER  | Contractor   |  |  |  |  |  |
|  | <ul> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ul>   | <ul> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ul>                    | <ul> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ul>  | <ul> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ul>   |  |  |  |  |  |
| Limit level exceedance for two or more consecutive samples | <ul> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ul> | <ul> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ul> | <ul> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ul> | <ul> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ul> |  |  |  |  |  |





#### **Table C2** Event/Action Plan for Construction Noise

| Table C2                   | Event/Action Plan for Constructio  | II TOISC   |   |  |
|----------------------------|--|--|---|--|
| Event                      |  | Ac   | ction   |  |
| Event                      | ET   | IEC  | ER  | Contractor   |
| Action Level<br>Exceedance | <ol> <li>Notify IEC, ER and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>   | <ol> <li>Review the analysed results submitted by the ET;</li> <li>Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>   | <ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures are properly implemented.</li> </ol>   | <ol> <li>Submit noise mitigation<br/>proposals to IEC and ER;</li> <li>Implement noise mitigation<br/>proposals.</li> </ol>  |
| Limit Level<br>Exceedance  | <ol> <li>Identify source;</li> <li>Inform IEC, ER, EPD and Contractor;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol> | <ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol> | <ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol> | <ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to the IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol> |



Table C3 Event/Action Plan for Landscape and Visual

|                            | Vent/Action Fian for Landscape   | Action   |  |  |  |  |  |  |  |  |
|----------------------------|--|--|--|--|--|--|--|--|--|--|
| Event                      | ET   | IEC  | ER   | Contractor   |  |  |  |  |  |  |
| Action Level<br>Exceedance | <ol> <li>Inform the IEC, ER and the Contractor;</li> <li>Discuss remedial actions with IEC, ER and Contractor; and</li> <li>Monitor remedial actions until rectification has been completed.</li> </ol>  | <ol> <li>Check inspection report;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET, ER and Contractor on possible remedial measures;</li> <li>Advise ER on effective of proposed remedial measures; and</li> <li>Check implementation of remedial measures.</li> </ol> | <ol> <li>Confirm receipt of notification of non-conformity in writing;</li> <li>Review and agree on the remedial measures proposed by the Contractor; and</li> <li>Ensure remedial measures are properly implemented.</li> </ol> | <ol> <li>Identify source and investigate<br/>the non-conformity;</li> <li>Amend working methods<br/>agreed with ER as<br/>appropriate; and</li> <li>Rectify damage and undertake<br/>any necessary replacement.</li> </ol>   |  |  |  |  |  |  |
| Limit Level<br>Exceedance  | <ol> <li>Identify sources;</li> <li>Inform the Contractor, IEC and ER;</li> <li>Discuss inspection frequency;</li> <li>Discuss remedial actions with IEC, ER and Contractor;</li> <li>Monitor remedial actions until rectification has been completed; and</li> <li>If non-conformity stops, cease additional monitoring.</li> </ol> | <ol> <li>Check inspection report;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET, ER and Contractor on possible remedial measures; and</li> <li>Advise ER on effectiveness of proposed remedial measures.</li> </ol>   | Notify the Contractor;     In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; and     Supervise implementation of remedial measures.                                     | <ol> <li>Identify source and investigate the non-conformity;</li> <li>Implement remedial measures;</li> <li>Amend working methods agreed with ER as appropriate;</li> <li>Rectify damage and undertake any necessary replacement.         Stop relevant portion of works as determined by ER until the non-conformity is abated.     </li> </ol> |  |  |  |  |  |  |

Notes:

ET – Environmental Team; IEC – Independent Environmental Checker; ER – Engineer's Representative

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# Appendix D Project Implementation Schedule





#### Environmental Mitigation Implementation Schedule (EMIS)

| EM&A<br>Log Ref. | Recommended Mitigation Measures   | Objective of the recommended measure & main concerns to address | Implement<br>Agent | Location /<br>Timing   | Implementation<br>Timing | Requirements and / or<br>Standards to be<br>Achieved   | Implementation status |
|------------------|---|---|--------------------|------------------------|--------------------------|--|-----------------------|
| Air Qual         | lity  |   |                    |                        |                          |  |                       |
| D1               | Dust suppression measures, including watering once per hour, will be incorporated in accordance with the requirements of the Air Pollution Control (Construction Dust) Regulation. Dust filter shall be installed at the ventilation system of the emission source at the tunnel portal chimney. The proposed dust control measures presented in Table 3.11 of the EIA report shall be followed.  | Minimize dust<br>impact at the<br>nearby sensitive<br>receivers | Contractor         | Tunnel Portal          | Construction<br>Phase    | Air Pollution Control<br>Ordinance     To control the dust<br>impact to meet<br>HKAQO and EIAO-<br>TM criteria | Implemented           |
| D2               | <ul> <li>The following dust suppression measures should be incorporated into contract document. The standard dust suppression measures as stipulated in the Air Pollution Control (Construction Dust) Regulation to control the dust nuisance shall be implemented throughout the construction phase:</li> <li>The contractor shall observe and comply with Air Pollution Control (Construction Dust) Regulation and implement all the required mitigation measures.</li> <li>The contractor shall undertake precautions at all times to prevent dust nuisance and smoke as a result of his activities.</li> <li>The contractor shall ensure a highly efficient dust filter (at least 80% efficiency) to be installed at the ventilation exhaust to treat the exhausting air from cavern.</li> <li>The contractor shall frequently clean and water the site to minimize fugitive dust emissions.</li> <li>The contractor shall ensure that there will be adequate water supply/storage for dust suppression.</li> </ul> | Minimize dust impact at the nearby sensitive receivers          | Contractor         | All Construction sites | Construction<br>Stage    | Air Pollution Control<br>Ordinance     To control the dust<br>impact to meet<br>HKAQO and EIAO-<br>TM criteria | Implemented           |





| EM&A<br>Log Ref. | Recommended Mitigation Measures   | Objective of the recommended measure & main concerns to address | Implement<br>Agent | Location /<br>Timing   | Implementation<br>Timing | Requirements and / or<br>Standards to be<br>Achieved                   | Implementation status |
|------------------|---|---|--------------------|------------------------|--------------------------|--|-----------------------|
|                  | <ul> <li>The working area of any pavement breaking,<br/>excavation or earth moving operation should be<br/>sprayed with water immediately before, during and<br/>after the operation to avoid dust generation.</li> </ul>   |   |                    |                        |                          |  |                       |
|                  | • Any stockpile of dusty material should be properly covered by tarpaulin or other impervious sheeting.   |   |                    |                        |                          |  |                       |
|                  | <ul> <li>Vehicles leaving a site loaded with dusty materials<br/>should be covered by tarpaulin or other impervious<br/>sheeting.</li> </ul>  |   |                    |                        |                          |  |                       |
|                  | • Wheel washing facilities shall be installed and used by all vehicles leaving the site. No earth, mud, debris, dust and the like shall be deposited on public roads. Water in the wheel cleaning facility shall be changed at frequent intervals and sediments shall be removed regularly. The contractor shall submit details of proposals for the wheel cleaning facility. Such wheel washing facilities shall be usable prior to any earthworks excavating activity on the site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road. |   |                    |                        |                          |  |                       |
|                  | <ul> <li>Any materials dropped on paved roads shall be cleaned up immediately to prevent dust nuisance.</li> <li>The contractor shall devise, arrange methods of working and carrying out the works in such a manner so as to minimize dust impacts on the surrounding environment, and shall provide experienced personnel with suitable training to ensure that these methods are</li> </ul>  |   |                    |                        |                          |  |                       |
| D3               | implemented.  The contractor shall also implement specific dust mitigation measures for excavation, drilling and blasting activities during the construction of tunnel portal. These include the use of blast nets / canvas covers and ensure portal door is properly closed.   | Minimize dust<br>impact at the<br>nearby sensitive<br>receivers | Contractor         | All Construction sites | Construction<br>Stage    | • Air Pollution Control Ordinance • To control the dust impact to meet | To be<br>Implemented  |





|                  | y EM&A Report  |   |                    |                        |                          |   |                          |
|------------------|--|---|--------------------|------------------------|--------------------------|---|--------------------------|
| EM&A<br>Log Ref. | Recommended Mitigation Measures  | Objective of the recommended measure & main concerns to address | Implement<br>Agent | Location /<br>Timing   | Implementation<br>Timing | Requirements and / or<br>Standards to be<br>Achieved  | Implementation<br>status |
|                  |  |   |                    |                        |                          | HKAQO and EIAO-<br>TM criteria  |                          |
| D4               | Before the commencement of any works, the Engineer may require the contractor to submit the methods of working, construction plant or equipment and air pollution control measures to be used on the site to be made available for inspection and approval.  | Minimize dust<br>impact at the<br>nearby sensitive<br>receivers | Contractor         | All Construction sites | Construction<br>Stage    | <ul> <li>Air Pollution Control<br/>Ordinance</li> <li>To control the dust<br/>impact to meet<br/>HKAQO and EIAO-<br/>TM criteria</li> </ul> | Implemented              |
| D5               | <ul> <li>The following precautionary measures shall be incorporated into contract document and implemented throughout the construction.</li> <li>The contractor shall ensure the use of electricity power equipment is connected to the main electricity supply for better emission estimation.</li> <li>The contractor shall avoid the use of diesel power machines and generators as far as practicable.</li> <li>The contractor shall avoid the use of non-road mobile machineries which exempt by the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation, and seek the ones with proper label issued by EPD.</li> <li>The contractor shall observe the requirement of DEVB TC(W) No. 13/2020, to apply a temporary electricity and water supply with a target that the necessary cables/water mains laying works could be completed before the commencement of the works contract.</li> </ul> | Avoid burdening the surrounding NO <sub>2</sub> concentration   | Contractor         | All Construction sites | Construction Stage       | Air Pollution Control Ordinance     To control the dust impact to meet HKAQO and EIAO-TM criteria     DEVB TC(W) No. 13/2020                | Implemented              |





| EM&A<br>Log Ref. | Recommended Mitigation Measures   | Objective of the recommended measure & main concerns to address | Implement<br>Agent | Location /<br>Timing                                      | Implementation<br>Timing | Requirements and / or<br>Standards to be<br>Achieved                                      | Implementation status |
|------------------|---|---|--------------------|---|--------------------------|---|-----------------------|
| Construc         | tion Noise  |   |                    |   |                          |   |                       |
| N1               | The contractor should limit the pipe section to be constructed by open cut method in a length of no more than 30 m at any one time when works are in close proximity to NSRs. Each work front along the proposed watermain laying should be separated by a clearance distance of at least 60 m.   | Control<br>construction noise<br>impacts                        | Contractor         | All construction<br>area for<br>watermain<br>laying works | Construction<br>stage    | • EIAO-TM   | To be implemented     |
| N2               | Use of quiet PME is considered to be a practicable means to mitigate the construction noise impact. Quiet plant is defined as a PME having actual SWL lower than the value specified in the GW-TM.  | Control<br>construction noise<br>impacts                        | Contractor         | All construction<br>area for<br>watermain<br>laying works | Construction stage       | EIAO-TM     A Practical Guile for<br>the Reduction of<br>Noise from<br>construction works | Implemented           |
| N3               | The use of noise barrier for certain PME could generally provide a 5 dB(A) reduction for movable PME and 10 dB(A) for stationary PME. The barrier material shall have a superficial surface density of not less than 10 kg/m² and have no opening or gaps. Sound absorbent lining inside the enclosure should be at least 25 mm thick.  | Control<br>construction noise<br>impacts                        | Contractor         | All construction<br>area for<br>watermain<br>laying works | Construction<br>stage    | • EIAO-TM   | To be implemented     |
| N4               | Provision of movable noise barriers of 3m or above in height and with a short-cantilevered section on the top with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers.  | Control construction noise impacts                              | Contractor         | All construction<br>area for<br>watermain<br>laying works | Construction stage       | • EIAO-TM   | To be implemented     |
| N5               | Noise enclosure lined with absorptive materials shall be provided at the tunnel portal to mitigate the noise from tunnel/cavern construction. The enclosure is a gap free enclosure with acoustic doors for vehicular access purpose. The acoustic doors shall remain closed throughout the construction period. The sheet material mass of the noise enclosure should be at least 10 kg/m² and sound-absorbent lining inside the enclosure should be at least 25 mm thick. | Control construction noise impacts                              | Contractor         | Tunnel Portal   | Construction<br>stage    | EIAO-TM     A Practical Guile for<br>the Reduction of<br>Noise from<br>construction works | To be implemented     |





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|------------------|--|---|--------------------|---|--------------------------|--|-----------------------|
| N6               | Noise barrier/enclosure should be inspected and maintained regularly. The contractor should design and provide details of the temporary noise barriers and noise enclosure to the Engineer for approval.   | Control construction noise impacts                              | Contractor         | All Construction sites                                    | Construction stage       | • EIAO-TM  | Implemented           |
| N7               | For NSR5, NSR14, NSR19 and NSR 22, the construction works of Fresh Water/Salt Water Mainlaying (Reinstatement Works) shall be arranged and carried out during School Holidays (i.e., the section of the mainlaying alignment is 20m measured from the school site boundary)  | Control construction noise impacts                              | Contractor         | All Construction<br>area for<br>watermain<br>laying works | Construction stage       | • EIAO-TM  | To be<br>Implemented  |
| N8               | During examination period, no mainlaying works will be carried out within 30m (for NSR 14, NSR 19 and NSR 22) or 50m (for NSR 5) from the school site boundary   | Control construction noise impacts                              | Contractor         | All Construction<br>area for<br>watermain<br>laying works | Construction stage       | • EIAO-TM  | To be<br>Implemented  |
| N9               | For NSR13, NSR20 and P1, the concrete lorry mixer shall be located 10 m away from the residential site boundary during the construction works of Fresh Water/Salt Water Mainlaying (Reinstatement Works).  | Control construction noise impacts                              | Contractor         | All Construction<br>area for<br>watermain<br>laying works | Construction stage       | • EIAO-TM  | To be<br>Implemented  |
| N10              | <ul> <li>Good Site Management Practices</li> <li>Only well-maintained plant should be operated onsite, and plant will be serviced regularly during the construction phase;</li> <li>Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction phase;</li> <li>Mobile plant, if any, should be sited away from NSRs;</li> <li>Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or will be throttled down to a minimum;</li> <li>Plant known to emit noise strongly in one direction should be orientated so that the noise is directed away from the nearby NSRs;</li> </ul> | Control construction noise impacts                              | Contractor         | All Construction sites                                    | Construction stage       | • EIAO-TM  | Implemented           |





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|                  | <ul> <li>Material stockpiles and other structures should be effectively utilised in screening noise from on-site construction activities;</li> <li>The contractor should devise, arrange methods of working and carrying out the works in such manner as to minimise noise impacts on the surrounding environment, and should provide experience personnel with suitable training to ensure that all these measures are implemented properly; and;</li> <li>The contractor should minimise construction noise exposure to the school (especially during examination periods) as much as possible. The contractor should liaise with the school and Examination Authority to ascertain the exact dates and times of all examination periods during the course of the contract and to avoid noisy activities during these periods.</li> </ul> |   |                      |  |   |  |                       |
| Operatio         | n Noise   |   |                      |  |   |  |                       |
| N11              | <ul> <li>Choose quieter plant;</li> <li>Include noise levels specification when ordering new mechanical equipment such as pumps and ventilation systems;</li> <li>Locate fixed plant, louvres or openings away from NSRs;</li> <li>Locate fixed plant in walled plant rooms or in specially designed enclosures;</li> <li>Ensure pump room doors and tunnel</li> <li>portal doors are kept closed;</li> <li>Silencers, acoustic louvres or acoustic doors should be used where necessary; and</li> <li>Develop and implement a regularly scheduled plant maintenance programme so that equipment is properly</li> </ul>   | Reduce the operation noise                                      | Project<br>Proponent | Tunnel Portal / Ancillary building / SRs in carven | Prior to<br>operation of the<br>Project for<br>planned NSRs | • EIAO-TM  | To be implemented     |





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|                  | operated and serviced in order to maintain controlled level of noise. The programme should be implemented by properly trained personnel   |  |                    |   |                          |   |                               |
| Water Qu         | uality (Construction Phase)   |  |                    |   |                          |   |                               |
| W1               | General Construction Site Practice The Contractor should observe and comply with the Water Pollution Control Ordinance and its subsidiary regulations and obtain a discharge license under the Ordinance for discharge of effluent from the construction site. 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. The Contractor should carry out the Project works in such a manner as to minimise adverse impacts on the water quality during execution of the works. In particular, the Contractor should arrange the working method to minimise the effects on the water quality within and outside the Project Site and on the transport routes. In addition, the management of construction site drainage from the Project will follow guidelines provided in ProPECC PN 1/94 – "Construction Site Drainage". The mitigation measures described in ETWB TC(W) No. 5/2005 shall also be followed where necessary for construction activities in close vicinity to inland watercourses. | To minimise water quality impact from construction site runoff and general construction activities | Contractor         | All construction sites where applicable       | Construction stage       | • Water Pollution<br>Control Ordinance<br>• ProPECC PN1/94<br>• ETWB TC(W) No.<br>5/2005<br>• EIAO-TM<br>• TM-DSS | Implemented                   |
| W2               | Construction Site Runoff and General Construction Activities  Proper site management measures should be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from reaching   | To minimize water quality impact from construction site runoff and general                         | Contractor         | All construction<br>sites where<br>applicable | Construction<br>stage    | • Water Pollution<br>Control Ordinance<br>• ProPECC PN1/94<br>• ETWB TC(W) No.<br>5/2005<br>• EIAO-TM             | Implemented<br>after reminder |





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|                  | downstream sections of the river/stream. The mitigation measures shall include the following practices:   | construction activities   |                    |                      |                          | • TM-DSS   |                          |
|                  | • Provision of perimeter channels to intercept storm-<br>runoff from outside the site. These should be<br>constructed in advance of the construction works.   |   |                    |                      |                          |  |                          |
|                  | Temporary ditches such as channels, earth bunds or<br>sandbag barriers should be included to facilitate runoff<br>discharge into the stormwater drain, via a sand/silt<br>basin/trap.   |   |                    |                      |                          |  |                          |
|                  | <ul> <li>Works programme should be designed to minimise<br/>works areas at any one time, thus minimizing exposed<br/>soil areas and reducing the potential for increased<br/>siltation and site runoff.</li> </ul>  |   |                    |                      |                          |  |                          |
|                  | Sand/silt removal facilities such as sand traps, silt traps and sediment basins should be provided to remove the sand/silt particles from run-off where necessary. These facilities should be properly and regularly cleaned and maintained. These facilities should be carefully planned to ensure that they would be installed at appropriate locations to capture all surface water generated on site. |   |                    |                      |                          |  |                          |
|                  | • Careful programming of the works to avoid excavation works during the rainy season (April to September).  |   |                    |                      |                          |  |                          |
|                  | Temporary access roads (if any) should be protected<br>by crushed gravel and exposed slope surfaces shall be<br>protected (e.g. by tarpaulin) when rainstorms are<br>likely;  |   |                    |                      |                          |  |                          |
|                  | Open stockpiles of construction materials on-site<br>should be covered with tarpaulin or similar fabric<br>during rainstorms to prevent erosion. Measures should<br>be taken to prevent the washing away of construction<br>materials, soil, silt or debris into any drainage system  |   |                    |                      |                          |  |                          |





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|                  | <ul> <li>Earthwork final surfaces should be well compacted,<br/>and the subsequent permanent work or surface<br/>protection should be carried out immediately after the<br/>final surfaces are formed to prevent erosion caused by<br/>rainstorms. Appropriate drainage like intercepting<br/>channels should be provided where necessary.</li> </ul>  |   |                    |                      |                          |  |                       |
|                  | <ul> <li>Measures should be taken to minimise 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.</li> <li>Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.</li> </ul> |   |                    |                      |                          |  |                       |
|                  | Water used in ground boring and drilling for site investigation or rock/soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.   |   |                    |                      |                          |  |                       |
|                  | • All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be  |   |                    |                      |                          |  |                       |





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|                  | paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.   |  |                    |   |                          |   |                       |
| W3               | Reuse of treated site runoff shall be considered as far as practicable for onsite activities such as dust suppression, wheel washing and general cleaning, etc.  | To minimize water quality impact from construction site runoff and general construction activities | Contractor         | All construction<br>sites where<br>applicable | Construction<br>stage    | <ul> <li>Water Pollution<br/>Control Ordinance</li> <li>ProPECC PN1/94</li> <li>ETWB TC(W) No.<br/>5/2005</li> <li>EIAO-TM</li> <li>TM-DSS</li> </ul> | N/A                   |
| W4               | Sewage Generated by Construction Workforce  No discharge of sewage to the storm drains and inland watercourse will be allowed. Domestic sewage /wastewater generated by workforce on-site should be collected in a suitable storage facility such as portable chemical toilets. An adequate number of portable toilets will be provided during the construction phase, with a licensed collector employed to clean the chemical toilets on a regular basis and be responsible for collection and disposal of the sewage. According to the Reference Materials on Construction Site Welfare, Health and Safety Measures that issued by the Construction Industry Council, the number of toilet facilities provided on site shall be at a ratio of not less than one for every 25 workers. These toilets should be maintained in a state that will not deter the workers from using them | To minimise water quality impact from sewage effluent in construction phase                        | Contractor         | All construction<br>sites where<br>applicable | Construction stage       | • Water Pollution<br>Control Ordinance<br>• ProPECC PN1/94<br>• ETWB TC(W) No.<br>5/2005<br>• EIAO-TM<br>• TM-DSS                                     | Implemented           |
| W5               | Accidental Spillage of Chemicals  The following mitigation measures should be implemented to avoid adverse impacts of chemical spillage:   | To prevent water quality impact due to chemical spillage   | Contractor         | All construction<br>sites where<br>applicable | Construction stage       | Water Pollution<br>Control Ordinance     Waste Disposal<br>(Chemical Waste)<br>(General) Regulation     ProPECC PN1/94                                | Implemented           |





| •                | EMEAT Report   |   |                    |   |                          |   |                       |
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|                  | <ul> <li>Waste streams classifiable as chemical wastes should be properly stored, collected and treated for compliance with the requirements set out in the Waste Disposal Ordinance and its subsidiary Waste Disposal (Chemical Waste) (General) Regulation.</li> <li>All fuel tanks and chemical storage areas should be provided with locks and be sited on paved areas.</li> <li>The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.</li> <li>Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.</li> <li>Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should, as far as possible, be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor.</li> </ul> |   |                    |   |                          | • ETWB TC(W) No. 5/2005 • EIAO-TM • TM-DSS  |                       |
| W6               | <ul> <li>Groundwater infiltration and Groundwater Drawdown</li> <li>To minimize the groundwater infiltration, the following groundwater control measures are recommended:</li> <li>The Contractor shall undertake rigorous probing of the ground ahead of excavation works to identify zones of significant water inflow that could occur as a result of discrete, permeable features. In such zones of significant water inflow, the overall inflow would be reduced by means of cut-off grouting executed ahead of the tunnel/cavern advance.</li> <li>Where water inflow quantities are excessive, pregrouting will be required to reduce the water inflow into the tunnel/cavern.</li> </ul>   | To minimise water quality impact from groundwater infiltration  | Contractor         | All construction sites where applicable | Construction stage       | • Water Pollution<br>Control Ordinance<br>• ProPECC PN1/94<br>• ETWB TC(W) No.<br>5/2005<br>• EIAO-TM<br>• TM-DSS | To be<br>Implemented  |





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|                  | <ul> <li>In case of excessive infiltration being observed as a result of the tunnelling or excavation works even after pre-</li> <li>grouting measures, post-grouting should be applied as far as practicable.</li> <li>Waterproof lining will be installed after the formation of the tunnels and caverns.</li> <li>In the event of seepage of groundwater occurs, groundwater should be pumped out from works areas and discharged to the storm drains via silt removal facilities. The discharges during construction phase shall comply with WPCO requirements</li> </ul> |   |                    |   |                          |   |                       |
| W7               | Construction Works in Close Proximity of Inland Watercourses  The mitigation measures proposed for "General Construction Site Practice" and "Construction Site Runoff and General Construction Activities" in Sections 5.8.2 and 5.8.3 of the EIA report shall be implemented properly to minimize the water quality impacts during to the construction works in close proximity of inland watercourse.   | To minimise water quality impact from construction site near watercourses | Contractor         | All construction<br>sites where<br>applicable | Construction stage       | <ul> <li>Water Pollution<br/>Control Ordinance</li> <li>ProPECC PN1/94</li> <li>ETWB TC(W) No.<br/>5/2005</li> <li>EIAO-TM</li> <li>TM-DSS</li> </ul> | To be<br>Implemented  |
| W8               | <ul> <li>The practices outlined in ETWB TC(W) No. 5/2005 shall also be adopted where applicable to minimise the water quality impacts upon any natural streams or other inland watercourses. Relevant mitigation measures are listed below:</li> <li>The use of less or smaller construction plants may be specified in areas close to the inland watercourses to reduce the disturbance to the surface water.</li> <li>Temporary storage of materials (e.g. equipment, chemicals and fuel) and temporary stockpile of</li> </ul>   | To minimise water quality impact from construction site near watercourses | Contractor         | The relocated DHSRs                           | Construction<br>stage    | <ul> <li>Water Pollution<br/>Control Ordinance</li> <li>ProPECC PN1/94</li> <li>ETWB TC(W) No.<br/>5/2005</li> <li>EIAO-TM</li> <li>TM-DSS</li> </ul> | To be<br>Implemented  |





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|                  | <ul> <li>construction debris and spoil should be located well away from any watercourses.</li> <li>Stockpiling of construction materials and dusty materials should be covered and located away from any watercourses.</li> <li>Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby inland watercourses.</li> <li>Adequate lateral support may need to be erected in order to prevent soil/mud from slipping into the watercourses.</li> <li>Construction works close to the inland watercourses should be carried out in dry season as far as practicable where the flow in the surface channel or stream is low.</li> </ul> |  |                     |                      |                          |   |                       |
| W9               | Cleansing Effluent Generated from Washing of Interior of Structures  The cleaning effluent containing SS and residual chlorine should be settled out through the sedimentation tank and dechlorinated by the de-chlorination plant. The discharge quality of the cleansing effluent generated from washing of interior of structures after the construction shall meet the requirements specified in the discharge licence and the cleaning effluent should be treated properly so that it satisfies all the standards listed in the TM-DSS   | To minimise water quality impact from construction site effluent | Contractor          | The relocated DHSRs  | Construction<br>stage    | <ul> <li>Water Pollution<br/>Control Ordinance</li> <li>ProPECC PN1/94</li> <li>ETWB TC(W) No.<br/>5/2005</li> <li>EIAO-TM</li> <li>TM-DSS</li> </ul> | To be<br>Implemented  |
| Water Q          | uality (Operation Phase)  |  |                     |                      |                          |   |                       |
| W10              | The ProPECC PN 5/93 "Drainage Plans subject to Comments by Environmental Protection Department" provides guidelines and practices for handling, treatment and disposal of various effluent discharges to stormwater drains and foul sewers. The design of site drainage and disposal of various site effluents generated within the   | To control operational site effluents                            | Further<br>Operator | The relocated DHSRs  | Operation stage          | Water Pollution<br>Control Ordinance     ProPECC PN5/93   | To be<br>Implemented  |





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|                  | development area should follow the relevant guidelines and practices as given in the ProPECC PN 5/93.   |  |                     |                      |                                   |   |                       |
| W11              | Effluents from Cleaning of Service Reservoir Treatment and disposal of cleansing water during annual cleaning and maintenance of the service reservoirs shall follow the WSD's current normal practice with reference to Sections 23.24 – 23.25 of the General Specification for Civil Engineering Works. Portable water incorporated with a mixture of sterilizing chemicals shall be used for washing water retaining structures. The cleansing effluent shall be settled out through the sedimentation task and dechlorinated by a dechlorination unit before being discharged to drainage system. Agreement of DSD and discharge license from EPD shall be obtained before commencing any of the discharges during operation phase  | To control<br>operational site<br>effluents                            | Further<br>Operator | The relocated DHSRs  | Operation stage                   | Water Pollution<br>Control Ordinance     Sections 23.23-23.24<br>of the General<br>Specification for<br>Civil Engineering<br>Works     TM-DSS | To be<br>Implemented  |
| W12              | <ul> <li>Non-point Source Surface Runoff Best Management Practices (BMPs) to reduce non-point source surface water pollution are proposed as follows:         <ul> <li>Exposed surface shall be avoided within access road and portal/ancillary building areas to minimise soil erosion. The access road and the portal/ancillary building areas shall be either hard paved or covered by landscaping area where appropriate.</li> <li>Screening facilities such as standard gully grating and trash grille, with spacing which is capable of screening off large substances such as fallen leaves and rubbish should be provided at the inlet of drainage system.</li> </ul> </li> <li>Road gullies with standard design and silt traps should be provided to remove particles present in stormwater runoff, where appropriate.</li> <li>Good management measures such as regular cleaning and sweeping of road surface/ open areas are suggested. The road surface/ open area cleaning</li> </ul> | To minimize water quality impact from non-point source surface run-off | Further<br>Operator | The relocated DHSRs  | Design and<br>Operation<br>stages | Water Pollution<br>Control Ordinance     ProPECC PN5/93   | To be<br>Implemented  |





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|                  | <ul> <li>should also be carried out prior to occurrence of rainstorm.</li> <li>Manholes, as well as storm water gullies, ditches provided at the Project site should be regularly inspected and cleaned (e.g. monthly). Additional inspection and cleansing should be carried out before forecast heavy rainfall.</li> </ul>  |  |                    |                        |                                      |   |                               |
| Waste M          | anagement (Construction Phase)  |  |                    |                        |                                      |   |                               |
| WM1              | The waste management hierarchy shall apply to the construction waste management (i.e. in order of desirability: avoidance, minimization, recycling, treatment and safe disposal of waste).  | Minimize waste<br>generation during<br>construction                        | Contractor         | All construction sites | Design and<br>Construction<br>stages | • Waste Disposal<br>Ordinance<br>• EIAO   | Implemented                   |
| WM2              | The contractor should develop and provide toolbox talk for on-site sorting of C&D materials to enhance workers' awareness in handling, sorting, reuse and recycling of C&D materials. Requirements for staff training should be included in the contractor's Environmental Management Plan (EMP). The EMP shall be submitted to the Architect/Engineer for approval before construction works in accordance with ETWB TC(W) No.19/2005. | Minimize waste<br>generation during<br>construction                        | Contractor         | All construction sites | Construction stages                  | • Waste Disposal<br>Ordinance<br>• EIAO<br>• ETWB TC(W) No.<br>19/2005<br>• DEVB TC(W) No.<br>6/2010                      | Implemented                   |
| WM3              | Good planning and site management practice should be employed to eliminate over-ordering or mixing of construction materials to reduce wastage. Proper storage and site practices will minimise the damage or contamination of construction materials.  | Ensure proper<br>waste management<br>system throughout<br>the construction | Contractor         | All construction sites | Construction stages                  | <ul> <li>Waste Disposal Ordinance</li> <li>EIAO</li> <li>ETWB TC(W) No. 19/2005</li> <li>DEVB TC(W) No. 6/2010</li> </ul> | Implemented<br>after reminder |
| WM4              | Where waste generation is unavoidable, the potential for recycling or reuse should be rigorously explored. If waste cannot be recycled, disposal routes described in the EMP should be followed. A recording system for the amount of wastes generated, recycled and disposed (including the  | Reduce<br>waste<br>generation  | Contractor         | All Construction sites | Construction stage                   | • Waste Disposal Ordinance • EIAO • ETWB TC(W) No. 19/2005  | Implemented                   |





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|                  | disposal sites) should be implemented. In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills and to control flytipping, a trip-ticket system should be included. One may make reference to DEVB TC(W) No. 6/2010 for details.  | address   |                    |                        |                          | • DEVB TC(W)<br>• No. 6/2010  |                       |
| WM5              | Regular cleaning and maintenance of the waste storage area should be provided.  | Avoid odour, pest, and litter impacts                             | Contractor         | All construction sites | Construction stage       | • DEVB TC(W)<br>No.8/2010<br>• ETWB TC(W) No.<br>19/2005  | Implemented           |
| WM6              | <ul> <li>Best Management Practice</li> <li>An on-site environmental co-ordinator should be identified at the outset of the works. The co-ordinator shall prepare an Environmental Management Plan (EMP) incorporating waste management in accordance with the requirements set out in the ETWB TCW No. 19/2005, Environmental Management on Construction Sites. The EMP shall include monthly and yearly Waste Flow Tables (WFT) that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated. WFT will be provided in the WMP which will form part of the EMP in accordance with ETWB TCW No.19/2005;</li> <li>The reuse/recycling of all materials on site shall be investigated prior to treatment/ disposal off- site;</li> <li>Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation;</li> <li>All waste materials shall be sorted onsite into inert and non-inert C&amp;D materials, and where the materials can be recycled or reused, they shall be further segregated.</li> </ul> | Ensure proper waste management system throughout the construction | Contractor         | All construction sites | • Construction stage     | • EIAO • Waste Disposal Ordinance • ETWB TCW No. 19/2005, Environmental Management on Construction Sites • DEVB TCW No.6/2010 • DEVB TCW No. 8/2010 • WBTC No.12/2000 | Implemented           |





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|                  | <ul> <li>The contractor shall be responsible for identifying what materials can be recycled/ reused, whether onsite or offsite. In the event of the latter, the contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert C&amp;D materials shall be collected and disposed of to the landfills whilst any inert C&amp;D materials shall be reused on site as far as possible. Alternatively, if inert C&amp;D materials cannot be reused on-site, the materials would be delivered to public fill reception facilities for beneficial reuse after obtaining the appropriate licence;</li> <li>With reference to DEVB TCW No.6/2010, Trip-ticket System for Disposal of Construction and Demolition Material, a trip ticket system should be established at the outset of the construction to monitor the disposal of C&amp;D materials and solid wastes from the site to public filling facilities and landfills;</li> <li>Under the Waste Disposal (Chemical Waste) (General) Regulation, the</li> <li>Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD;</li> <li>A sufficient number of covered bins shall be provided on site for the containment of general refuse. These bins shall be cleared daily and the collected waste</li> </ul> |   |                    |                      |                          |  |                          |





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|                  | disposed of to the refuse transfer station. Further to the issue of DEVB TCW No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the contractor is required to maintain a clean and hygienic site throughout the Project works;  Tool-box talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse, and recycling; and  The contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of Project construction. |   |                    |                        |                          |  |                       |
| WM7              | On-site Sorting, Reuse and Recycling All waste materials should be segregated into categories covering:  Inert C&D materials suitable for reuse  on-site;  Inert C&D materials suitable for public  fill reception facilities;  Recyclable C&D materials for recycling;  Remaining C&D materials for landfill;  Chemical waste; and  General refuse for landfill.  | Reduce waste generation   | Contractor         | All construction sites | Construction stage       | Waste Disposal Ordinance     ETWB TCW No. 19/2005, Environmental Management on Construction Sites  | Implemented           |
| WM8              | Proper segregation and disposal of construction waste should be implemented. Separate containers should be provided for inert and non-inert materials.   | Reduce waste generation   | Contractor         | All construction sites | Construction stage       | <ul> <li>Waste Disposal<br/>Ordinance</li> <li>ETWB TCW<br/>No. 19/2005,<br/>Environmental<br/>Management on<br/>Construction Sites</li> </ul> | Implemented           |





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| WM9              | Specific area should be allocated for on-site sorting of C&D materials and to provide a temporary storage area for those sorted materials. If area is limited, all C&D materials should at least be sorted on-site into inert and non-inert components. Non-inert C&D materials such as bamboo, timber, vegetation, packaging waste and other organic materials should be reused and recycled to local recycler wherever possible and disposed to the designated landfill only as a last resort. Inert C&D materials such as concrete, stone, clay, brick, soil, asphalt and the like should be separated and reused in this or other projects (subject to approval by the relevant parties in accordance with the DEVB TC(W) No. 6/2010) before disposed of at a public filling facility operated by CEDD. Steel and other metals should be recovered from demolition waste stream and recycled | Ensure proper<br>waste management<br>system throughout<br>the construction in<br>order to reduce<br>waste generation | Contractor         | All construction sites | Construction<br>stage    | Waste Disposal Ordinance     ETWB TCW No. 19/2005, Environmental Management on Construction Sites     DEVB TCW No.6/2010     DEVB TCW No.8/2010 | Implemented           |
| WM10             | The reuse of inert C&D materials such as soil, rock and broken concrete should be maximised. Waste should be separated into fine, soft and hard materials. With the use of a crusher, coarse materials can be crushed to make it suitable for use as fill materials where fill is required in the works. This minimises the use of imported materials and maximises the use of the C&D materials produced. Approval from CEDD and EPD shall be obtained for the use of site crusher in accordance with WBTC No. 11/2002.   | Ensure proper<br>waste management<br>system throughout<br>the construction in<br>order to reduce<br>waste generation | Contractor         | All construction sites | Construction stage       | • Waste Disposal Ordinance • WBTC No. 11/2002   | Implemented           |
| WM11             | Excavated Materials Excavated materials should be temporarily stored on-site for use as backfill as far as possible. It should be properly covered with tarpaulin or similar impervious sheeting to prevent dust nuisance and site runoff. Surplus excavated materials should be disposed of to public fill reception facilities.  | Minimize dust,<br>site runoff and<br>waste impacts<br>from excavated<br>and C&D<br>materials                         | Contractor         | All construction sites | Construction<br>stage    | Waste Disposal Ordinance     Air Pollution Control Ordinance     To control the dust impact to meet HKAQO and EIAO-TM criteria                  | Implemented           |





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| WM12             | <ul> <li>Control measures for temporary stockpiles on-site should be taken, which include:</li> <li>Surface of stockpiled soil should be regularly wetted with water especially during dry season;</li> <li>Disturbance of stockpiled soil should be minimized;</li> <li>Stockpiled soil should be properly covered with tarpaulin especially when heavy rainstorms are predicted;</li> <li>Stockpiling areas should be enclosed where space is available;</li> <li>Stockpiling location should be away from the water bodies; and</li> <li>An independent surface water drainage system equipped with silt traps should be installed at the stockpiling area</li> </ul> | Minimize the noise, generation of dust, pollution of water and visual impact from excavated and C&D materials | Contractor         | All construction sites | Construction stage                   | Waste Disposal Ordinance     Air Pollution Control Ordinance     To control the dust impact to meet HKAQO and EIAO-TM criteria.     ETWB TC(W) No.19/2005 | Implemented           |
| WM13             | The Public Fill Committee of CEDD should be consulted for disposal of inert C&D materials to public fill reception facilities while EPD should be consulted for disposal of non-inert C&D materials to landfill. Disposal of C&D waste to landfill must not have more than 50% (by weight) inert material. The C&D waste delivered for landfill disposal should contain no free water and the liquid content should not exceed 70% by weight.  | Minimise waste impacts from C&D materials   | Contractor         | All construction sites | Design and<br>Construction<br>stages | • Waste Disposal Ordinance • ETWB TCW No. 19/2005, Environmental Management on Construction Sites • DEVB TCW No.6/2010 • DEVB TCW No.8/2010               | Implemented           |
| WM14             | In order to avoid dust impacts, any vehicle leaving a works area carrying C&D waste or public fill should have their load covered up before leaving the construction site.   | Minimize the dust<br>impact from<br>transferring C&D<br>materials   | Contractor         | All construction sites | Construction stages                  | <ul> <li>Air Pollution Control<br/>Ordinance</li> <li>ETWB TCW No.<br/>19/2005,<br/>Environmental<br/>Management on<br/>Construction Sites</li> </ul>     | Implemented           |





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|                  |  |   |                                       |                        |                          | • DEVB TCW<br>No.6/2010<br>• DEVB TCW<br>No.8/2010  |                          |
| WM15             | C&D materials should be disposed of at designated public fill reception facilities or landfills. Disposal of these materials for the use at other construction projects is subject to the approval of the Engineer and/or other relevant reception authorities. Furthermore, unauthorised disposal of C&D materials in particular on private agricultural land is prohibited and may be subject to relevant enforcement and regulating actions. The disposal of public fill and C&D materials will be controlled through trip-ticket system in accordance with DEVB TC(W) No. 6/2010.  | Minimise waste impacts from C&D materials                       | Contractor                            | All construction sites | Construction stages      | • Waste Disposal Ordinance • ETWB TCW No. 19/2005, Environmental Management on Construction Sites • DEVB TCW No.6/2010 • DEVB TCW No.8/2010 | Implemented              |
| WM16             | Chemical Waste Where the construction processes produce chemical waste, the contractor must register with EPD as a chemical waste producer. Wastes classified as chemical wastes are listed in the Waste Disposal (Chemical Waste) (General) Regulation. These wastes are subject to stringent disposal routes. EPD requires information on the particulars of the waste generation processes including the types of waste produced, their location, quantities and generation rates. A nominated contact person must be registered with EPD. An updated list of licensed chemical waste collector can be obtained from EPD. | Proper waste<br>management for<br>chemical waste                | Contractor /<br>Relevant<br>Operators | All construction sites | Construction<br>stages   | Waste Disposal (Chemical Waste) (General) Regulation     Code of Practice on the Packaging Labelling and Storage of Chemical Waste          | Implemented              |
| WM17             | Storage, handling, transport, and disposal of chemical waste should be arranged in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published by EPD, and collected by a licensed chemical waste collector.   | Proper waste<br>management for<br>chemical waste                | Contractor /<br>Relevant<br>Operators | All construction sites | Construction stages      | <ul> <li>Waste Disposal (Chemical Waste) (General) Regulation</li> <li>Code of Practice on the Packaging Labelling and</li> </ul>           | Implemented              |





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|                  |   |   |                                       |                        |                          | Storage of Chemical<br>Waste  |                       |
| WM18             | Suitable containers should be used for specific types of chemical wastes. The containers should be properly labelled (in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations), resistance to corrosion, stored safely and closely secured. Stored volume should not be kept more than 450 liters unless the specification has been approved by the EPD. Storage area should be enclosed by three sides by a wall, partition of fence that is at least 2 m height or height of tallest container with adequate ventilation and space.  | Proper waste<br>management for<br>chemical waste                | Contractor /<br>Relevant<br>Operators | All construction sites | Construction stages      | Waste Disposal (Chemical Waste) (General) Regulation     Code of Practice on the Packaging Labelling and Storage of Chemical Waste  | Implemented           |
| WM19             | Hard standing, impermeable surfaces draining via oil interceptors should be provided in works area compounds.  Interceptors should be regularly emptied to prevent release of oils and grease into the surface water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain. Oil and fuel bunkers should be bunded and/or enclosed on three sides to prevent discharge due to accidental spillages or breaches of tanks. Bunding should be of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste, whichever is largest. Waste collected from any oil interceptors should be collected and disposed of by a licensed collector. | Proper waste management for chemical waste                      | Contractor /<br>Relevant<br>Operators | All construction sites | Construction stages      | Waste Disposal Ordinance     ETWB TCW No. 19/2005, Environmental Management on Construction Sites     Waste Disposal (Chemical Waste) (General) Regulation     EIAO-TM criteria | Implemented           |
| WM20             | Lubricants, waste oils and other chemical wastes are likely to be generated during the maintenance of vehicles and mechanical equipment. Used lubricants should be collected and stored in individual containers which are fully labelled in English and Chinese and stored in a  | Proper waste<br>management for<br>chemical waste                | Contractor /<br>Relevant<br>Operators | All construction sites | Construction stages      | <ul> <li>Waste Disposal<br/>(Chemical Waste)<br/>(General) Regulation</li> <li>Code of Practice on<br/>the Packaging</li> </ul>   | Implemented           |





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|                  | designated secure place. The chemical waste shall be collected by licensed chemical waste collectors.   |  |                                       |                        |                          | Labelling and<br>Storage of Chemical<br>Waste   |                       |
| WM21             | The registered chemical waste producer (i.e. the contractor) has to arrange for the chemical waste to be collected by licensed collectors. The licensed collector should regularly take chemical waste to a licensed chemical waste treatment facility (such as the CWTC in Tsing Yi). A trip ticket system operates to control the movement of chemical wastes.  | Proper waste<br>management for<br>chemical waste   | Contractor /<br>Relevant<br>Operators | All construction sites | Construction stages      | • Waste Disposal<br>(Chemical Waste)<br>(General) Regulation                          | Implemented           |
| WM22             | No lubricants, oils, solvents or paint products should be allowed to discharge into water courses, either by direct discharge, or as contaminants carried in surface water runoff from the construction site.   | Proper waste<br>management for<br>chemical waste   | Contractor / Relevant Operators       | All construction sites | Construction stages      | • Waste Disposal<br>(Chemical Waste)<br>(General) Regulation                          | Implemented           |
| WM23             | General Refuse General refuse should be disposed of to landfill as designated by EPD only after recyclable materials (e.g. paper, metals, aluminium cans, etc.) have been sorted out.   | Minimise<br>production of the<br>general refuse and<br>avoid odour, pest<br>and litter impacts | Contractors                           | All construction sites | Construction stage       | Waste Disposal Ordinance     Public Health and Municipal Services Ordinance (Cap.132) | Implemented           |
| WM24             | The contractor should nominate approved site personnel to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site. Training of site personnel about site cleanliness, proper waste management and chemical handling procedures should be provided. Recyclable materials such as papers and aluminium cans should be separated and delivered to the local recyclers. An adequate number of waste containers should be provided to avoid spillage of waste. | Minimise<br>production of the<br>general refuse and<br>avoid odour, pest<br>and litter impacts | Contractors                           | All construction sites | Construction stage       | Waste Disposal Ordinance     Public Health and Municipal Services Ordinance (Cap.132) | Implemented           |
| WM25             | General refuse generated on-site should be stored in<br>enclosed bins or skips and collected separately from other<br>construction and chemical wastes and disposed of at   | Minimise production of the general refuse and  | Contractors                           | All construction sites | Construction stage       | • Waste Disposal Ordinance  | Implemented           |





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|                  | designated landfills by reputable waste collectors. The removal of waste from the site should be arranged on a daily basis or at least on every second day by the contractor to minimise any potential odour impacts, minimise the presence of pests, vermin and other scavengers and prevent unsightly accumulation of waste.   | avoid odour, pest<br>and litter impacts   |                                  |  |                          | • Public Health and<br>Municipal Services<br>Ordinance (Cap.132)   |                       |
| Waste Mo         | anagement (Operation Phase)  |   |                                  |  |                          |  |                       |
| WM26             | The general refuse and chemical waste generated during the operation phase would follow the same handling procedures and disposal method presented in Sections 6.6.16 to 6.6.25 of the EIA report. It is expected that there would be limited quantities of general refuse and chemical waste to be generated from the operation of the Project and will be properly handled by licensed chemical waste collectors and reputable waste collector. Waste monitoring and audit programme for the operation phase of the Project would not be required. | Minimise<br>production of the<br>general refuse and<br>avoid odour, pest<br>and litter impacts          | Relevant<br>Operators            | All construction sites   | Operation<br>Stage       | Waste Disposal Ordinance     Waste Disposal (Chemical Waste) (General) Regulation     Code of Practice on the Packaging Labelling and Storage of Chemical Waste     Public Health and Municipal Services Ordinance (Cap.132) | To be implemented     |
| Ecology          |  |   |                                  |  |                          |  |                       |
| E1               | Direct impact to the recognised site of conservation importance (Lion Rock Country Park)/habitats with high ecological values (e.g. watercourse, woodland, species of conservation interest shall be avoided.  | Avoid any direct impacts to these sites of conservation importance /habitats with high ecological value | Detailed<br>Design<br>Consultant | Sites of<br>conservation<br>importance/<br>habitats with<br>high ecological<br>value | Design Stage             | TM-EIAO  | To be implemented     |





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| E2               | To minimise habitat loss to the nearby habitats and associated wildlife, the following mitigation measures should be implemented: • Confining the works within the Project Boundary; • Controlling access of site staff to avoid damage to the vegetation in surrounding areas; and • Placement of equipment or stockpile in the existing disturbed / urbanised area within the Project Boundary of the Project to minimise disturbance to vegetated area.  | Minimise habitat<br>loss to the nearby<br>habitats and<br>associated wildlife | Contractor         | All construction sites | Construction<br>Stage    | TM-EIAO  | Implemented           |
| Е3               | Reinstatement and enhancement of temporarily affected habitats.  Minor ecological impacts may arise from the temporary loss of plantation and developed area during construction phase. In general, replanting would be implemented upon the completion of the construction works to reinstate the temporarily affected areas to condition similar to original status.  | Enhance the temporarily affected habitats                                     | Contractor         | All construction sites | Construction stage       | TM-EIAO  | To be implemented     |
| E4               | <ul> <li>Minimizing Disturbance from Construction Activities</li> <li>Mitigation measures including, but not limited to, erection of site hoarding, use of Quality Powered Mechanical Equipment (QPME), noise and dust reduction tarpaulin sheeting and good site practices throughout construction phase are shown as followings:</li> <li>Site hoarding would be established around the proposed tunnel portal and E&amp;M building prior to the commencement of construction works to prevent construction activities from encroaching adjacent habitats as well as prevent unnecessary human activities in the surrounding habitats;</li> <li>QPME, noise and dust reduction tarpaulin sheeting could be used during construction phase to reduce noise disturbance and dust emission. Temporary</li> </ul> | To minimise disturbance from construction activities                          | Contractor         | All construction sites | Construction stage       | TM-EIAO  | Implemented           |





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|                  | <ul> <li>barriers such as movable noise barrier, temporary noise screening structures and site hoardings could further reduce the noise impact;</li> <li>Good site practices such as regular water spraying at dusty operation, provision of waste skips and timely collection of general refuse and construction waste are also recommended.</li> </ul>   |  |                    |                        |                          |   |                          |
| E5               | Reduction of lighting can be achieved using directional lighting to prevent excessive light spill into adjacent natural habitat and disturbance to nocturnal fauna.  | To minimize disturbance from construction activities   | Contractor         | All construction sites | Construction stage       | TM-EIAO   | Implemented              |
| E6               | Control of Site Runoff Best management practices should be implemented on site in accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94) as far as practicable to control site runoff and drainage at all work sites during construction phase, so that the treated runoff will be discharged to public drainage system in compliance with the WPCO. Construction effluent, site run-off and sewage should be properly collected and/or treated.  Wastewater from a construction site should be managed. Proper locations for discharge outlets of wastewater treatment facilities well away from the natural watercourses should be identified. Effluent monitoring should be incorporated to make sure that the discharged effluent from construction sites meets the effluent discharge guidelines. The practices outlined in ETWB TC (Works) No. 5/2005 "Protection of natural streams/rivers from adverse impacts arising from construction works" should also be adopted where applicable to minimise the water quality impacts upon the channalised/semi-natural | To control site runoff and drainage at all work sites, thus, the aquatic ecosystem is protected. | Contractor         | All construction sites | Construction stage       | Water Pollution<br>Control Ordinance     ProPECC PN. 1/94 | Implemented              |





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|                  | watercourses, in order to better protect the aquatic ecosystem.   |  |                    |  |   |  |                       |
| E7               | Control of Groundwater Infiltration In order to minimise groundwater infiltration or avoid potential impacts on watercourses, water table and groundwater drawdown, minimization approach was adopted during design stage and would be adopted during construction and operation phase.                                       | To minimize<br>groundwater<br>infiltration / avoid<br>potential impacts<br>on watercourses | Contractor         | Works area at<br>Cavern and<br>tunnel portal | Design stage / Construction stage / Operation Stage | EIAO-TM  | To be implemented     |
| E8               | The proposed cavern would be constructed under the measured groundwater table. Water inflow would be controlled to an acceptable level by implementing pregrouting and post-grouting measures, thus the impact of the proposed cavern on the groundwater table is considered to be limited.                                   | To minimize<br>groundwater<br>infiltration / avoid<br>potential impacts<br>on watercourses | Contractor         | Works area at<br>Cavern and<br>tunnel portal | Design stage / Construction stage / Operation Stage | EIAO-TM  | To be<br>implemented  |
| E9               | The permanent tunnel structure of the proposed access tunnel would be designed as drained type at the locations with adequate rock cover and designed as undrained type at locations with mix ground conditions. The water inflow would also be controlled to an acceptable level with pregrouting and postgrouting measures. | To minimize<br>groundwater<br>infiltration / avoid<br>potential impacts<br>on watercourses | Contractor         | Works area at<br>Cavern and<br>tunnel portal | Design stage / Construction stage / Operation Stage | EIAO-TM  | To be implemented     |
| E10              | During operation phase, waterproof lining would be installed to prevent water seepage and water droplets (if any) would be discharged into the sewage system  | To minimize<br>groundwater<br>infiltration / avoid<br>potential impacts<br>on watercourses | Contractor         | Works area at<br>Cavern and<br>tunnel portal | Design stage / Construction stage / Operation Stage | EIAO-TM  | To be implemented     |
| E11              | All the mitigation measures regarding potential groundwater infiltration concern that has been proposed in Section 5.8.7 shall be followed.   | To minimize<br>groundwater<br>infiltration / avoid<br>potential impacts<br>on watercourses | Contractor         | Works area at<br>Cavern and<br>tunnel portal | Design stage / Construction stage / Operation Stage | EIAO-TM  | To be<br>implemented  |





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| Landscap         | Landscape and Visual (Construction Phase)   |  |   |  |                          |  |                                     |  |  |  |
| CM1              | <ul> <li>Careful Site Planning and Management</li> <li>The site layout and works area including temporary access road(s), stockpiling area(s), temporary construction storage shall be carefully planned to preserve existing landscape resources and trees as far as practicable.</li> <li>Good site practices shall be enforced to eliminate eyesores from unappealing stockpiling/ storage areas and/or construction activities.</li> </ul>                                  | To minimize site clearance, tree removal and disturbance to existing Landscape Resources, and visual obstruction to VSRs | Project<br>Proponent<br>(via<br>Contractor) | All construction areas                       | Construction stage       | N/A  | Implemented                         |  |  |  |
| CM2              | <ul> <li>Careful Design of Slope Works</li> <li>Slope stabilization methods (i.e., insertion of soil nails and establishment of grillage, etc.) shall be carefully formulated to minimise the loss of tree and landscape cover as far as practicable.</li> </ul>  | To minimize tree removal and to create a slope surface better blending with the surrounding environment                  | Project<br>Proponent<br>(via<br>Contractor) | Works area at<br>Cavern and<br>tunnel portal | Construction<br>stage    | N/A  | Implemented                         |  |  |  |
| CM3              | <ul> <li>Tree Preservation</li> <li>In accordance with DEVB TC (W) No.4/2020 – Tree Preservation or its latest version, existing vegetation shall be retained on site as far as practicable.</li> <li>Adequate tree protection measures shall be provided for the Trees to be retained on site. Relevant guidelines on tree care and protection promulgated by Greening, Landscape and Tree Management Section of Development Bureau shall be observed and followed.</li> </ul> | To minimize tree removal   | Project<br>Proponent<br>(via<br>Contractor) | All construction areas                       | Construction stage       | N/A  | Implemented<br>after<br>observation |  |  |  |
| CM4              | <ul> <li>Tree Transplanting/ Compensatory Tree Planting</li> <li>Trees unavoidably affected by the project shall be transplanted as far as practicable in accordance with DEVB TC (W) No.4/2020 – Tree Preservation or its latest version and the latest guidelines promulgated by</li> </ul>   | To minimize the loss of trees To compensate for the loss of tree   | Project<br>Proponent<br>(via<br>Contractor) | All construction areas                       | Construction stage       | DEVB TC(W) No.<br>4/2020- Tree<br>Reservation        | Implemented                         |  |  |  |





| EM&A<br>Log Ref. | Recommended Mitigation Measures  | Objective of the recommended measure & main concerns to address  | Implement<br>Agent                          | Location /<br>Timing                                      | Implementation<br>Timing | Requirements and / or<br>Standards to be<br>Achieved | Implementation status |
|------------------|--|--|---|---|--------------------------|--|-----------------------|
|                  | <ul> <li>Greening, Landscape and Tree Management Section of Development Bureau.</li> <li>Affected trees that are not suitable for transplantation and to be felled shall be compensated in not less than 1:1 in quantity and in accordance with DEVB TC (W) No.4/2020 – Tree Preservation or its latest version.</li> <li>Onsite compensation has been prioritized. However, due to land status issues, area of onsite compensatory planting locations are insufficient to compensate for the loss of trees and near site compensatory locations managed by WSD are adopted, as shown in Figure 9.9, Figure 9.10A, Figure 9.10B and Figure 9.11 of the EIA report.</li> <li>Tree species selected shall be compatible with surrounding existing vegetation.</li> </ul> | To provide quality and sustainable landscape that is compatible with the site context  |   |   |                          |  |                       |
| CM5              | <ul> <li>Inspection of Tree Works</li> <li>Regular site inspection shall be conducted by tree specialist.</li> </ul>   | To closely monitor<br>the site activities<br>in order to avoid<br>or minimize any<br>possible adverse<br>impact to the<br>retained trees | Project<br>Proponent<br>(via<br>Contractor) | All construction areas                                    | Construction stage       | N/A  | Implemented           |
| CM6              | Minimization of Light Impact  • Lighting at construction sites shall be carefully controlled at night  | To avoid<br>disturbance to<br>nearby VSRs  | Project<br>Proponent<br>(via<br>Contractor) | All construction<br>areas and<br>temporary works<br>areas | Construction stage       | N/A  | Implemented           |
| CM7              | <ul> <li>Erection of Decorative Site Hoarding</li> <li>Decorative hoarding that is compatible with the surrounding environment shall be erected during construction.</li> </ul>  | To enhance the visual amenity of construction hoarding   | Project Proponent (via Contractor)          | All construction<br>areas and<br>temporary work<br>areas  | Construction stage       | N/A  | To be implemented     |





| EM&A<br>Log Ref. | Recommended Mitigation Measures  | Objective of the recommended measure & main concerns to address  | Implement<br>Agent                          | Location /<br>Timing                                     | Implementation<br>Timing | Requirements and / or<br>Standards to be<br>Achieved | Implementation status |
|------------------|--|--|---|--|--------------------------|--|-----------------------|
| CM8              | Reinstatement of Temporarily Disturbed Areas     Temporarily disturbed landscape areas shall be reinstated.  | To reinstate the<br>disturbed<br>landscape   | Project Proponent (via Contractor)          | All construction<br>areas and<br>temporary work<br>areas | Construction stage       | N/A  | To be implemented     |
| Landscap         | pe and Visual (Operation Phase)  |  |   |  |                          |  |                       |
| OM1              | <ul> <li>Landscape Planting</li> <li>Landscape planting shall be provided in accordance with DEVB TCW No.3/2012 – Site Coverage of Greenery for Government Building Projects or its latest version.</li> <li>Planting species shall be compatible with the nearby existing vegetation cover as far as practicable.</li> <li>Not less than 12-month establishment after completion shall be provided for the landscape planting.</li> </ul> | To soften the hard edges of the structure and make it more compatible with the surrounding environment   | Project<br>Proponent<br>(via<br>Contractor) | Ancillary<br>building                                    | Operation stage          | DEVB TCW<br>No.3/2012                                | To be implemented     |
| OM2              | Rooftop Greening Rooftop greening shall be implemented with reference to the references on skyrise greenery provided by the Greening, Landscape & Tree Management Section, Development Bureau.   | To make the ancillary facilities more compatible with the surrounding woodland landscape and to mitigate the potential adverse visual impact on adjacent residential VSRs viewing from an elevated vantage point | Project Proponent (via Contractor)          | Ancillary<br>building                                    | Operation stage          | N/A  | To be implemented     |
| OM3              | Vertical Greening Vertical greening shall be provided.   | To enhance the visual amenity of the ancillary   | Project<br>Proponent                        | Ancillary<br>building                                    | Operation stage          | N/A  | To be implemented     |

Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Monthly EM&A Report





| EM&A<br>Log Ref. | Recommended Mitigation Measures   | Objective of the recommended measure & main concerns to address    | Implement<br>Agent                          | Location /<br>Timing  | Implementation<br>Timing | Requirements and / or<br>Standards to be<br>Achieved | Implementation<br>status |
|------------------|---|--|---|-----------------------|--------------------------|--|--------------------------|
|                  |   | facilities and to<br>blend in with the<br>surrounding<br>landscape | (via<br>Contractor)                         |                       |                          |  |                          |
| OM4              | <ul> <li>Careful Design of Ancillary Facilities</li> <li>The orientation and location of the ancillary facilities shall be carefully designed. Its finish shall be non-reflective and dull in colour.</li> <li>The ancillary facilities are unmanned structures that merely require minimal security services during daytime. There shall be nobody and no lighting illuminating from the buildings at night, except essential street lighting for the portal access road.</li> </ul> | To avoid glare<br>impact to<br>surrounding VSRs                    | Project<br>Proponent<br>(via<br>Contractor) | Ancillary<br>building | Operation stage          | N/A  | To be implemented        |

Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Monthly EM&A Report





# **Appendix E**

**Air Quality and Noise Monitoring Equipment Calibration Certification** 









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



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

## Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Verification Test Date:

9-Oct-22

16-Oct-22

Next Verification Test Date:

15-Oct-23

Unit-under-Test- Model No.

Sibata LD-5R

Unit-under-Test Serial No.

851820

Our Report Refrence No.

RPT-22-HVS-0019

| Standard Equipment Information |           |            |
|--------------------------------|-----------|------------|
| Varification Equipment Type    | Tisch TSP | Tisch HVS  |
| Verification Equipment Type    | HVS       | Calibrator |
| Standard Equipment Model No.   | TE-5170X  | TE-5025A   |
| Equipment serial no.           | MFC 1049  | 3465       |
| Last Calibration Date          | 28-Sep-22 | 28-Jun-22  |
| Next Calibration Date          | 28-Nov-22 | 29-Jun-23  |

| Verification | Date       | Time       |          | K-Factor                    | Counts/<br>Minute (R) | Total<br>Counts | TSP Sample | Dust<br>Concentration<br>(ug/m3), (C) |        |
|--------------|------------|------------|----------|-----------------------------|-----------------------|-----------------|------------|---------------------------------------|--------|
| Test No.     | 2          | Start-time | End-time | Elapsed<br>Time<br>(in min) | K-Factor<br>(K=C/R)   | x-axis          | (TC)       | ID No.                                | y axis |
| 1            | 9/10/2022  | 6210.34    | 6213.34  | 180.00                      | 0.00122               | 28.00           | 5040       | R221670/1                             | 34     |
| 2            | 9/10/2022  | 6213.34    | 6216.36  | 181.20                      | 0.00103               | 64.00           | 11597      | R221670/2                             | 66     |
| 3            | 9/10/2022  | 6216.36    | 6221.78  | 325.20                      | 0.00120               | 85.67           | 27859      | R221670/3                             | 103    |
| 4            | 16/10/2022 | 6249.91    | 6252.92  | 180.60                      | 0.00102               | 53.00           | 9571.8     | R221671/1                             | 54     |
| 5            | 16/10/2022 | 6252.92    | 6255.92  | 180.00                      | 0.00114               | 77.33           | 13920      | R221671/2                             | 88     |
| 6            | 16/10/2022 | 6255.92    | 6261.94  | 361.20                      | 0.00116               | 71.33           | 25766      | R221671/3                             | 83     |
|              |            | •          | •        |                             | 0.00113               |                 |            | •                                     |        |

K-Factor to be inputted in LD-5R (corrected 1 decimal point):

1.1

By Linear Regression of y on x:

slope, mh= 1.1948

intercept,ch= -4.2432

\*Correlation Coefficient,R= 0.9806

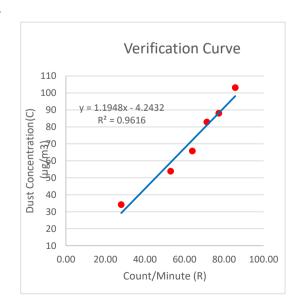
Verification Test Result: <u>Strong Correlation</u>, <u>Results were accepted</u>.

\* If the Correlation Coefficient, R is <0.5. Checking and Reverification are required.

Verified By:

Date: 19-10-2022

Field Supervisor









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



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

## Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

16-Oct-22

Verification Test Date:

9-Oct-22

15-Oct-23

Next Verification Test Date: Unit-under-Test- Model No.

Sibata LD-5R

Unit-under-Test Serial No.

882109

Our Report Refrence No.

RPT-22-HVS-0015

| Standard Equipment Information |           |            |
|--------------------------------|-----------|------------|
| Verification Equipment Type    | Tisch TSP | Tisch HVS  |
| vermeation Equipment Type      | HVS       | Calibrator |
| Standard Equipment Model No.   | TE-5170X  | TE-5025A   |
| Equipment serial no.           | MFC 1049  | 3465       |
| Last Calibration Date          | 28-Sep-22 | 28-Jun-22  |
| Next Calibration Date          | 28-Nov-22 | 29-Jun-23  |

| Verification | Date       |            | Time     |                             | K-Factor            | Counts/<br>Minute (R) | Total<br>Counts | TSP Sample | Dust<br>Concentration<br>(ug/m3), (C) |
|--------------|------------|------------|----------|-----------------------------|---------------------|-----------------------|-----------------|------------|---------------------------------------|
| Test No.     |            | Start-time | End-time | Elapsed<br>Time<br>(in min) | K-Factor<br>(K=C/R) | x-axis                | (TC)            | ID No.     | y axis                                |
| 1            | 9/10/2022  | 6210.34    | 6213.34  | 180.00                      | 0.00083             | 41.00                 | 7380            | R221670/1  | 34                                    |
| 2            | 9/10/2022  | 6213.34    | 6216.36  | 181.20                      | 0.00100             | 65.67                 | 11899           | R221670/2  | 66                                    |
| 3            | 9/10/2022  | 6216.36    | 6221.78  | 325.20                      | 0.00107             | 96.33                 | 31328           | R221670/3  | 103                                   |
| 4            | 16/10/2022 | 6249.91    | 6252.92  | 180.60                      | 0.00104             | 52.00                 | 9391.2          | R221671/1  | 54                                    |
| 5            | 16/10/2022 | 6252.92    | 6255.92  | 180.00                      | 0.00122             | 72.33                 | 13020           | R221671/2  | 88                                    |
| 6            | 16/10/2022 | 6255.92    | 6261.94  | 361.20                      | 0.00113             | 73.00                 | 26368           | R221671/3  | 83                                    |
| ·            | _          | ·          |          |                             | 0.00105             |                       |                 |            |                                       |

K-Factor to be inputted in LD-5R (corrected 1 decimal point):

1.0

By Linear Regression of y on x:

slope, mh= intercept,ch= 1.2732

\*Correlation Coefficient,R=

-13.6573 0.9714

Verification Test Result: Strong Correlation, Results were accepted.

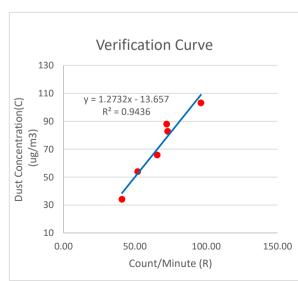
\* If the Correlation Coefficient, R is <0.5. Checking and Re-

verification are required.

Verified By:

Date: 19-10-2022

Field Supervisor







Website: www.acuityhk.com



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



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

# PC-3A(E) K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Verification Test Date:

9-Oct-22

16-Oct-22

Next Verification Test Date:

8-Oct-23

Unit-under-Test- Model No.

PC-3A(E)

Unit-under-Test Serial No.

JC-220710221

Our Report Refrence No.

RPT-22-HVS-0033

Calibration Location:

Emax

| Standard Equipment Information |           |            |
|--------------------------------|-----------|------------|
| Verification Equipment Type    | Tisch TSP | Tisch HVS  |
| vermeation Equipment Type      | HVS       | Calibrator |
| Standard Equipment Model No.   | TE-5170X  | TE-5025A   |
| Equipment serial no.           | MFC 1049  | 3465       |
| Last Calibration Date          | 28-Sep-22 | 28-Jun-22  |
| Next Calibration Date          | 28-Nov-22 | 29-Jun-23  |

| Verification | Date       | Time       |          | K-Factor                    | Counts/<br>Minute (R) | Total<br>Counts | TSP Sample | Dust<br>Concentration<br>(ug/m3), (C) |        |
|--------------|------------|------------|----------|-----------------------------|-----------------------|-----------------|------------|---------------------------------------|--------|
| Test No.     |            | Start-time | End-time | Elapsed<br>Time<br>(in min) | K-Factor<br>(K=C/R)   | x-axis          | (TC)       | ID No.                                | y axis |
| 1            | 9/10/2022  | 6210.34    | 6213.34  | 180.00                      | 0.00088               | 39              | 6960       | R221670/1                             | 34     |
| 2            | 9/10/2022  | 6213.34    | 6216.36  | 181.20                      | 0.00094               | 70              | 12624      | R221670/2                             | 66     |
| 3            | 9/10/2022  | 6216.36    | 6221.78  | 325.20                      | 0.00094               | 109             | 35555      | R221670/3                             | 103    |
| 4            | 16/10/2022 | 6249.91    | 6252.92  | 180.60                      | 0.00094               | 57              | 10354      | R221671/1                             | 54     |
| 5            | 16/10/2022 | 6252.92    | 6255.92  | 180.00                      | 0.00095               | 92              | 16620      | R221671/2                             | 88     |
| 6            | 16/10/2022 | 6255.92    | 6261.94  | 361.20                      | 0.00095               | 87              | 31545      | R221671/3                             | 83     |
|              |            |            |          |                             | 0.00094               |                 |            |                                       |        |

K-Factor to be inputted in PC-3A(E) (corrected 1 decimal point):

0.94

By Linear Regression of y on x:

slope, mh=

0.9766

intercept,ch=

-2.7104

\*Correlation Coefficient,R=

0.9996

Verification Test Result: Strong Correlation, Results were accepted.

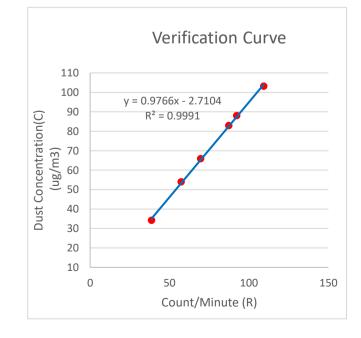
\* If the Correlation Coefficient, R is <0.5. Checking and Re-

verification are required.

Verified By:

Date: 19-10-2022

Field Supervisor



# Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

NTi Audio

Type No.:

XL2 (Serial No.: A2A-13548-E0)

Microphone:

ACO 7052 (Serial No.:73912)

Preamplifier:

NTi Audio M2211 MA220 (Serial No.:5735)

#### Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F, Ford Glory Plaza.

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

Within (31.5Hz – 8kHz)

☐ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 2 February 2023

Date of calibration: 6 February 2023

Date of NEXT calibration: 5 February 2024

Calibrated by:

**Calibration Technician** 

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 6 February 2023

Certificate No.: APJ22-124-CC001

Page 1 of 4

# Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

#### 1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

#### 2. Calibration Conditions:

Air Temperature:

23.9 °**C** 

Air Pressure:

1006 hPa

Relative Humidity:

47.9 %

#### 3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

**Multifunction Calibrator** 

B&K 4226

2288467

AV220061

**HOKLAS** 

#### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

| Sett                      | ing of Uni | t-under-t      | est (UUT) | Appl | ied value | UUT Reading,      | IEC 61672 Class 1 |
|---------------------------|------------|----------------|-----------|------|-----------|-------------------|-------------------|
| Range, dB Freq. Weighting |            | Time Weighting | Level, dB |      |           | Specification, dB |                   |
| 30-130                    | dBA        | SPL            | Fast      | 94   | 1000      | 94.1              | ±0.4              |

#### Linearity

| Setti     | ing of Un      | it-under-t | est (UUT)      | Appl      | lied value    | UUT Reading, | IEC 61672 Class 1 |
|-----------|----------------|------------|----------------|-----------|---------------|--------------|-------------------|
| Range, dB | Freq. W        | eighting   | Time Weighting | Level, dB | Frequency, Hz | dB           | Specification, dB |
|           |                |            |                | 94        |               | 94.1         | Ref               |
| 30-130    | 30-130 dBA SPL | SPL        | Fast           | 104       | 1000          | 104.1        | ±0.3              |
|           |                |            |                | 114       |               | 114.1        | ±0.3              |

#### Time Weighting

| Sett      | ing of U | nit-under-t | est (UUT)      | Appl      | ied value     | UUT Reading, | IEC 61672 Class 1 |
|-----------|----------|-------------|----------------|-----------|---------------|--------------|-------------------|
| Range, dB | Freq. V  | Weighting   | Time Weighting | Level, dB | Frequency, Hz | dB           | Specification, dB |
| 30-130    | dBA      | SPL         | Fast           | 0.4       | 1000          | 94.1         | Ref               |
| 50 150    | UDA      | SEL         | Slow           | 94        | 1000          | 94.1         | ±0.3              |

Certificate No.: APJ22-124-CC001

(A+A) \*L Page 2 of 4

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com



#### Frequency Response

#### Linear Response

| Sett      | ing of Unit       | t-under-t | est (UUT)      | Appl      | ied value     | UUT Reading, | IEC 61672 Class 1 |
|-----------|-------------------|-----------|----------------|-----------|---------------|--------------|-------------------|
| Range, dB | B Freq. Weighting |           | Time Weighting | Level, dB | Frequency, Hz | dB           | Specification, dB |
|           |                   |           |                |           | 31.5          | 94.1         | ±2.0              |
|           |                   |           |                |           | 63            | 94.2         | ±1.5              |
|           |                   |           |                |           | 125           | 94.1         | ±1.5              |
|           |                   |           |                |           | 250           | 94.1         | ±1.4              |
| 30-130    | dB                | SPL       | Fast           | 94        | 500           | 94.2         | ±1.4              |
|           |                   |           |                |           | 1000          | 94.1         | Ref               |
|           |                   |           |                |           | 2000          | 94.5         | ±1.6              |
|           |                   |           |                |           | 4000          | 95.2         | ±1.6              |
|           |                   |           |                |           | 8000          | 94.9         | +2.1; -3.1        |

#### A-weighting

| Sett      | ing of Un       | it-under-t | est (UUT)      | Applied value |               | UUT Reading, | IEC 61672 Class 1 |
|-----------|-----------------|------------|----------------|---------------|---------------|--------------|-------------------|
| Range, dB | Freq. Weighting |            | Time Weighting | Level, dB     | Frequency, Hz | dB           | Specification, dB |
|           |                 |            |                |               | 31.5          | 54.8         | -39.4 ±2.0        |
|           |                 |            |                |               | 63            | 68.0         | -26.2 ±1.5        |
|           |                 |            |                |               | 125           | 78.0         | -16.1 ±1.5        |
|           |                 |            |                |               | 250           | 85.5         | $-8.6 \pm 1.4$    |
| 30-130    | dBA             | SPL        | Fast           | 94            | 500           | 91.0         | -3.2 ±1.4         |
|           |                 |            |                |               | 1000          | 94.1         | Ref               |
|           |                 |            |                |               | 2000          | 95.7         | +1.2 ±1.6         |
|           |                 |            |                |               | 4000          | 96.2         | +1.0±1.6          |
|           |                 |            |                |               | 8000          | 93.9         | -1.1+2.1; -3.1    |

#### C-weighting

| Setting of Unit-under-test (UUT) |         |          | Applied value  |           | UUT Reading,  | IEC 61672 Class 1 |                   |
|----------------------------------|---------|----------|----------------|-----------|---------------|-------------------|-------------------|
| Range, dB                        | Freq. W | eighting | Time Weighting | Level, dB | Frequency, Hz | dB                | Specification, dB |
|                                  |         |          |                |           | 31.5          | 91.2              | -3.0 ±2.0         |
|                                  |         |          |                |           | 63            | 93.4              | -0.8 ±1.5         |
|                                  |         |          |                |           | 125           | 94.0              | -0.2 ±1.5         |
|                                  |         |          |                |           | 250           | 94.1              | $-0.0\pm1.4$      |
| 30-130                           | dBC     | SPL      | Fast           | 94        | 500           | 94.2              | $-0.0\pm1.4$      |
|                                  |         |          |                |           | 1000          | 94.1              | Ref               |
|                                  |         |          |                |           | 2000          | 94.3              | -0.2 ±1.6         |
|                                  |         |          |                |           | 4000          | 94.4              | -0.8 ±1.6         |
|                                  |         |          |                |           | 8000          | 92.0              | -3.0 +2.1: -3.1   |

Certificate No.: APJ22-124-CC001



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#### 5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

| 94 dB  | 31.5 Hz | ± 0.10 |
|--------|---------|--------|
|        | 63 Hz   | ± 0.10 |
|        | 125 Hz  | ± 0.10 |
|        | 250 Hz  | ± 0.05 |
|        | 500 Hz  | ± 0.10 |
|        | 1000 Hz | ± 0.05 |
|        | 2000 Hz | ± 0.05 |
|        | 4000 Hz | ± 0.05 |
|        | 8000 Hz | ± 0.10 |
| 104 dB | 1000 Hz | ± 0.05 |
| 114 dB | 1000 Hz | ± 0.05 |

The uncertainties are evaluated for a 95% confidence level.

#### Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)\*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ22-124-CC001



Certificate No. D224349E



# CALIBRATION CERTIFICATE

Product : SOUND CALIBRATOR

Type : NC-75

Serial number : 34724243

Manufacturer : RION CO., LTD.

Calibration quantities : Sound pressure level (with reference standard microphone)

Calibration method : Measured by specified secondary standard microphone

according to JCSS calibration procedure specified by RION.

Ambient conditions : Temperature 23.9 °C, Relative humidity 49 %,

Static pressure 99.9 kPa

Calibration date : 05/07/2022 (DD/MM/YYYY)

Calibration location : 3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

RION CO., LTD. Calibration Room

We hereby certify that the results of this calibration were as follows.

Issue date: 11/07/2022 (DD/MM/YYYY)

Junichi Kawamura
Manager
Quality Assurance Section,
Quality Assurance Department,
Environmental Instrument Division,
RION CO., LTD.

3-20-41 Higashimotomachi, Kokubunji,

Tokyo 185-8533, Japan

This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the International System of Units (SI).

The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

The certificate shall not be reproduced except in full, without the written approval of the issuing laboratory.

The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2017.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Accreditation Cooperation (APAC). This (These) calibration result(s) may be accepted internationally through ILAC/APAC MRA.



Certificate No. D224349E

# CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

| Measured | Expanded       |  |
|----------|----------------|--|
| value    | uncertainty *1 |  |
| 93.99 dB | 0.09 dB        |  |

Specified secondary standard microphone:

Type

: 4160

Serial number : 2973341

Reference Sound pressure: 2×10.5 Pa

\*1 Defines an interval estimated to have a level of confidence of approximately 95 %.

Coverage factor k=2

Calibration result is the calibration value in ambient conditions during calibration.

### BE OUT OF JCSS CALIBRATION

#### 1. Frequency

| Measured value | Measurement                       |
|----------------|-----------------------------------|
|                | uncertainty (k=2)                 |
| 1000.0 Hz      | $3.9 \times 10^{-4}  \mathrm{Hz}$ |

Working measurement standard universal counter:

Type

: 53132A

Serial number : MY40005574

(JCSS Calibration Certificate No. 21081499079575510)

#### 2. Total distortion

| Measured |      |
|----------|------|
| value    | 1100 |
| 0.2 %    |      |

Working measurement standard distortion meter:

: VA-2230A

Serial number : 11076061

(A2LA Calibration Certificate No. 1501-03080)

- closing -



Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Monthly EM&A Report





# **Appendix F Environmental Monitoring Schedule**

#### Contract No. 21/WSD/21

#### Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

| Impact Environmental Monitoring Schedule |  |  |  |  |                 |   |  |  |
|--|--|--|--|--|-----------------|---|--|--|
|  |  |  | April 2023   |  |                 |   |  |  |
| Sun                                      | Mon  | Tue  | Wed  | Thur   | Fri             | Sat   |  |  |
|  |  |  |  |  |                 |   |  |  |
| 2  | 3  | 4  | 5  | Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4a, NM-2, NM-3, NM-4a) Site Inspection | 7               | 8   |  |  |
| 9  | 10   | 11   | Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4a, NM-2, NM-3, NM-4a) | 13   | Site inspection | 15  |  |  |
| 16                                       | 17   | Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4a, NM-2, NM-3, NM-4a) | Site inspection  | 20   | 21              | 22  |  |  |
| 23                                       | Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4a, NM-2, NM-3, NM-4a) | 25   | 26   | 27   | Site inspection | Impact Air Quality Monitoring (DM-1, DM-2, DM-3, DM-4a) |  |  |
| 30                                       |  |  |  |  |                 |   |  |  |

Air Quality Monitoring Station:

DM-1 - Tennis Court near Tin Ma Court

DM-2 - Chun Sing House, Tin Ma Court

DM-3 - Grace Methodist Church Kindergarten

DM-4a - Road pavement near Wang King House, Tin Wang Court

Noise Monitoring Station:

NM-2 - Chun Sing House, Tin Ma Court

NM-3 - Grace Methodist Church Kindergarten

NM-4a - Road pavement near Wang King House, Tin Wang Court

|     |  | Tentative Impa   | ct Environmental Mon   | itoring Schedule |  |  |
|-----|--|--|--|------------------|--|--|
|     |  |  | May 2023   |                  |  |  |
| Sun | Mon  | Tue  | Wed  | Thur             | Fri  | Sat  |
|     | 1  | 2  | 3  | 4                | Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4a, NM-2, NM-3, NM-4a) Site Inspection | 6  |
| 7   | 8  | 9  | Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4a, NM-2, NM-3, NM-4a) | 11               | Site Inspection  | 13   |
| 14  | 15   | Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4a, NM-2, NM-3, NM-4a) | Site Inspection  | 18               | 19   | 20   |
| 21  | Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4a, NM-2, NM-3, NM-4a) | 23   | 24   | Site Inspection  | 26   | Impact Air Quality (DM-1, DM-2, DM-3, DM-4a) |
| 28  | 29 seen circumstances (e.g. adverse weather, etc.)                                   | 30   | 31   |                  |  |  |

Air Quality Monitoring Station:

DM-1 - Tennis Court near Tin Ma Court

DM-2 - Chun Sing House, Tin Ma Court

DM-3 - Grace Methodist Church Kindergarten

DM-4a - Road pavement near Wang King House, Tin Wang Court

Noise Monitoring Station:

NM-2 - Chun Sing House, Tin Ma Court

NM-3 - Grace Methodist Church Kindergarten

NM-4a - Road pavement near Wang King House, Tin Wang Court





# Appendix G

Air Quality Monitoring Results and Graphical Presentation





# **Appendix G - 1-hour TSP Monitoring Results**

| DM-1 - Tennis Cou | ırt near Tin Ma | a Court |                                   |
|-------------------|-----------------|---------|-----------------------------------|
| Date              | Time            | Weather | Particulate Concentration (µg/m³) |
|                   | 11:59           |         | 84                                |
| 6 April 2023      | 12:59           | Cloudy  | 90                                |
|                   | 13:59           |         | 88                                |
|                   | 12:19           |         | 75                                |
| 12 April 2023     | 13:19           | Sunny   | 86                                |
|                   | 14:19           |         | 89                                |
|                   | 12:27           |         | 87                                |
| 18 April 2023     | 13:27           | Fine    | 92                                |
|                   | 14:27           |         | 88                                |
|                   | 12:10           |         | 85                                |
| 24 April 2023     | 13:10           | Cloudy  | 93                                |
|                   | 14:10           |         | 81                                |
|                   | 12:07           |         | 82                                |
| 29 April 2023     | 13:07           | Fine    | 91                                |
|                   | 14:07           |         | 75                                |
|                   |                 | Minimum | 75                                |
|                   |                 | Maximum | 93                                |
|                   |                 | Average | 86                                |

| DM-2 - Chun Sing | House, Tin Ma | Court   |                                   |
|------------------|---------------|---------|-----------------------------------|
| Date             | Time          | Weather | Particulate Concentration (µg/m³) |
|                  | 14:44         |         | 64                                |
| 6 April 2023     | 15:44         | Cloudy  | 71                                |
|                  | 16:44         |         | 74                                |
|                  | 10:17         |         | 62                                |
| 12 April 2023    | 11:17         | Sunny   | 70                                |
|                  | 12:17         |         | 69                                |
|                  | 9:41          |         | 66                                |
| 18 April 2023    | 10:41         | Fine    | 73                                |
|                  | 11:41         |         | 71                                |
|                  | 10:22         |         | 78                                |
| 24 April 2023    | 11:22         | Cloudy  | 84                                |
|                  | 12:22         |         | 81                                |
|                  | 10:29         |         | 74                                |
| 29 April 2023    | 11:29         | Fine    | 88                                |
|                  | 12:29         |         | 90                                |
|                  |               | Minimum | 62                                |
|                  |               | Maximum | 90                                |
|                  |               | Average | 74                                |





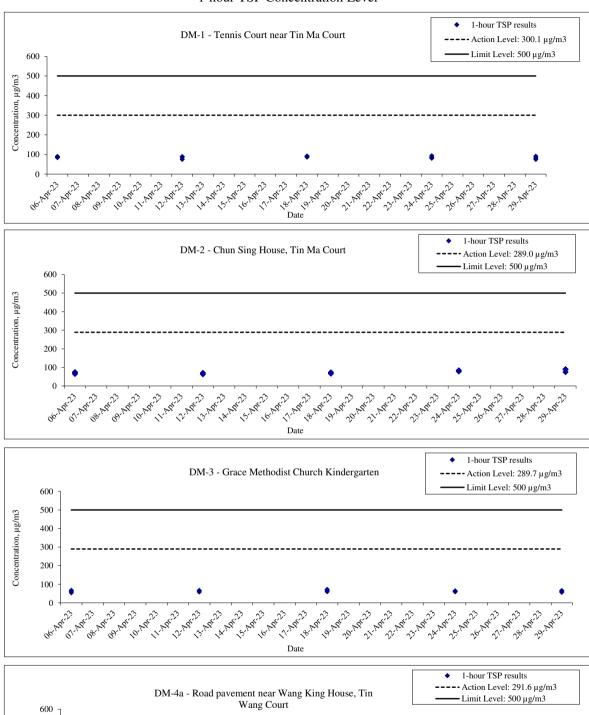
# **Appendix G - 1-hour TSP Monitoring Results**

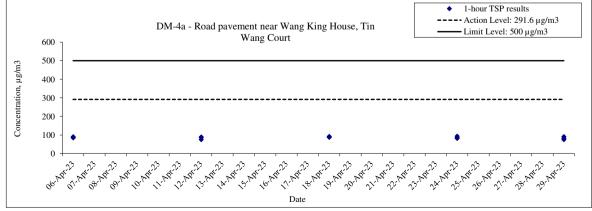
| DM-3 - Grace Met | hodist Church | Kindergarten |                                   |
|------------------|---------------|--------------|-----------------------------------|
| Date             | Time          | Weather      | Particulate Concentration (µg/m³) |
|                  | 8:47          |              | 54                                |
| 6 April 2023     | 9:47          | Cloudy       | 62                                |
|                  | 10:47         |              | 67                                |
|                  | 8:50          |              | 58                                |
| 12 April 2023    | 9:50          | Sunny        | 66                                |
|                  | 10:50         |              | 66                                |
|                  | 8:55          |              | 60                                |
| 18 April 2023    | 9:55          | Fine         | 67                                |
|                  | 10:55         |              | 72                                |
|                  | 8:54          |              | 62                                |
| 24 April 2023    | 9:54          | Cloudy       | 59                                |
|                  | 10:54         |              | 64                                |
|                  | 9:03          |              | 56                                |
| 29 April 2023    | 10:03         | Fine         | 62                                |
|                  | 11:03         |              | 66                                |
|                  |               | Minimum      | 54                                |
|                  |               | Maximum      | 72                                |
|                  |               | Average      | 63                                |

| Date          | Time  | Weather | Particulate Concentration (µg/m³) |
|---------------|-------|---------|-----------------------------------|
|               | 8:43  |         | 64                                |
| 6 April 2023  | 9:43  | Cloudy  | 71                                |
|               | 10:43 |         | 77                                |
|               | 8:41  |         | 67                                |
| 2 April 2023  | 9:41  | Sunny   | 75                                |
|               | 10:41 |         | 78                                |
|               | 8:48  |         | 65                                |
| 8 April 2023  | 9:48  | Fine    | 77                                |
|               | 10:48 |         | 84                                |
|               | 8:44  |         | 72                                |
| 24 April 2023 | 9:44  | Cloudy  | 81                                |
|               | 10:44 |         | 75                                |
|               | 8:55  |         | 64                                |
| 29 April 2023 | 9:55  | Fine    | 78                                |
|               | 10:55 |         | 70                                |
| _             |       | Minimum | 64                                |
|               |       | Maximum | 84                                |
|               |       | Average | 73                                |



#### 1-hour TSP Concentration Level









# **Appendix H**

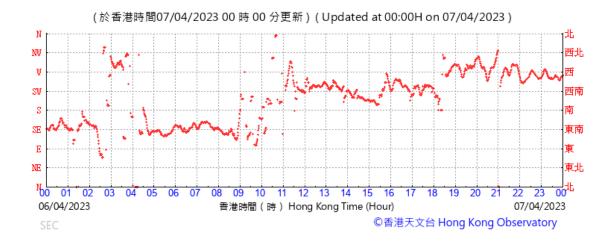
**Extract of Meteorological Observations for Hong Kong** (Kai Tak)

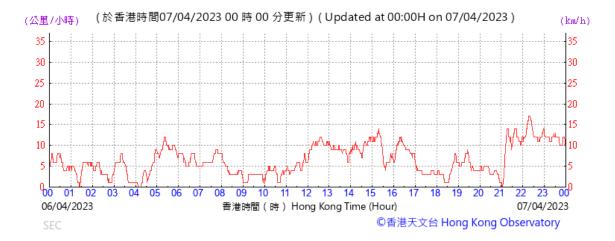




# Appendix H - Extract of Meteorological Observations for Hong Kong (Kai Tak Wind Station)

Wind Direction

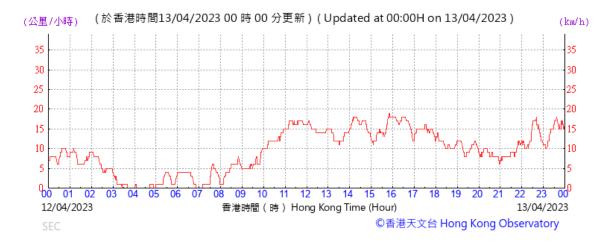






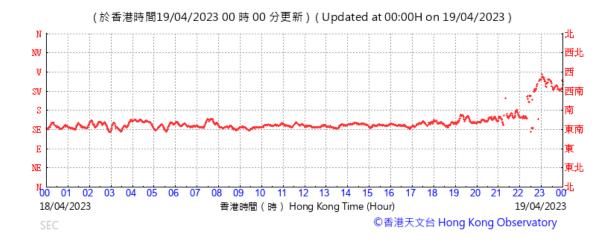








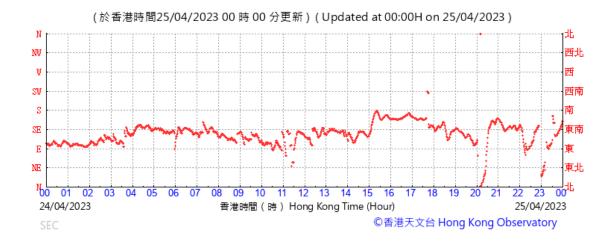










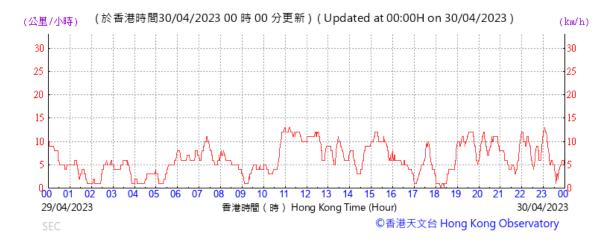
















# Appendix I

**Noise Monitoring Results and Graphical Presentation** 



#### **Appendix I - Construction Noise Monitoring Results**

**Construction Noise Monitoring Stations: Chun Sing House, Tin Ma Court (NM-2)** 

| Date              | Weather | Start Time |      |      | dB(A)    |            |
|-------------------|---------|------------|------|------|----------|------------|
| Date              | weather | Start Time | Leq  | L10  | L90      | Leq(30min) |
|                   |         | 14:44      | 70.6 | 72.3 | 68.6     |            |
|                   |         | 14:49      | 70.9 | 72.8 | 68.6     |            |
| 6 Apr 2023 Cloudy | Cloudy  | 14:54      | 70.7 | 72.3 | 69.0     | 70.4       |
|                   | Cloudy  | 14:59      | 70.0 | 71.5 | 68.4     | 70.4       |
|                   |         | 15:04      | 70.0 | 71.1 | 68.7     |            |
|                   |         | 15:09      | 69.9 | 71.1 | 68.5     |            |
|                   |         | 10:20      | 70.2 | 71.2 | 68.9     |            |
|                   | Sunny   | 10:25      | 69.9 | 71.1 | 68.5     |            |
| 12 Apr 2022       |         | 10:30      | 70.2 | 71.6 | 68.5     | 70.2       |
| 12 Apr 2023 Sunny |         | 10:35      | 70.0 | 71.1 | 68.3     | 70.2       |
|                   |         | 10:40      | 70.2 | 71.3 | 69.0     |            |
|                   |         | 10:45      | 70.6 | 71.7 | 69.2     |            |
|                   |         | 9:45       | 69.6 | 70.8 | 67.9     |            |
|                   |         | 9:50       | 70.0 | 71.3 | 68.6     |            |
| 19 Apr 2022       | Fine    | 9:55       | 69.6 | 70.9 | 68.2     | 69.8       |
| 18 Apr 2023       | Tine    | 10:00      | 69.6 | 70.6 | 68.3     | 09.8       |
|                   |         | 10:05      | 70.1 | 71.4 | 68.5     |            |
|                   |         | 10:10      | 69.8 | 70.8 | 68.3     |            |
|                   |         | 10:23      | 70.3 | 71.8 | 68.7     |            |
|                   |         | 10:28      | 70.3 | 71.6 | 69.0     |            |
| 24 Apr 2022       | Cloudy  | 10:33      | 70.1 | 71.4 | 68.6     | 70.2       |
| 24 Apr 2023       | Cloudy  | 10:38      | 70.0 | 71.3 | 68.6     | 70.2       |
|                   |         | 10:43      | 70.0 | 71.1 | 68.5     |            |
|                   |         | 10:48      | 70.2 | 71.6 | 68.8     |            |
|                   |         |            |      |      | Min:     | 69.8       |
|                   |         |            |      |      | Max:     | 70.4       |
|                   |         |            |      |      | Average: | 70.1       |

Construction Noise Monitoring Stations: Grace Methodist Church Kindergarten (NM-3)

|             |                |            |      |      | dB(A) |            |
|-------------|----------------|------------|------|------|-------|------------|
| Date        | Weather        | Start Time | Leq  | L10  | L90   | Leq(30min) |
|             |                | 8:48       | 65.1 | 68.8 | 55.3  |            |
| 6 Apr 2023  |                | 8:53       | 64.0 | 67.8 | 55.1  |            |
|             | Cloudy         | 8:58       | 64.9 | 68.5 | 55.7  | 64.9       |
| 0 Apr 2023  | Cloudy         | 9:03       | 65.5 | 69.3 | 55.0  | 04.9       |
|             |                | 9:08       | 65.1 | 68.7 | 54.5  |            |
|             |                | 9:13       | 64.4 | 68.0 | 54.3  |            |
|             |                | 8:54       | 64.7 | 68.5 | 53.5  |            |
|             | Apr 2023 Sunny | 8:59       | 64.6 | 68.8 | 52.4  |            |
| 12 Apr 2023 |                | 9:04       | 64.7 | 68.2 | 56.1  | 65.1       |
| 12 Apr 2023 | Sumy           | 9:09       | 65.8 | 69.1 | 52.8  | 05.1       |
|             |                | 9:14       | 65.3 | 68.7 | 53.2  |            |
|             |                | 9:19       | 65.1 | 68.9 | 53.8  |            |
|             |                | 8:57       | 66.5 | 69.9 | 56.1  |            |
|             |                | 9:02       | 64.3 | 68.2 | 53.8  |            |
| 18 Apr 2023 | Fine           | 9:07       | 65.4 | 69.0 | 54.1  | 65.3       |
| 16 Apr 2023 | Tine           | 9:12       | 64.0 | 67.7 | 51.9  | 05.5       |
|             |                | 9:17       | 66.4 | 68.7 | 53.7  |            |
|             |                | 9:22       | 64.6 | 68.3 | 55.4  |            |
|             |                | 9:03       | 65.2 | 69.1 | 56.0  |            |
|             |                | 9:08       | 65.5 | 68.7 | 56.5  |            |
| 24 Apr 2023 | Cloudy         | 9:13       | 65.9 | 69.3 | 57.0  | 65.4       |
| 24 Apr 2023 | Cloudy         | 9:18       | 64.9 | 68.3 | 57.1  | 03.4       |
|             |                | 9:23       | 66.1 | 69.5 | 57.2  |            |
|             |                | 9:28       | 64.5 | 68.2 | 56.2  |            |
| <del></del> |                |            |      | •    | Min:  | 64.9       |
|             |                |            |      |      | Max:  | 65.4       |

Average:

65.2

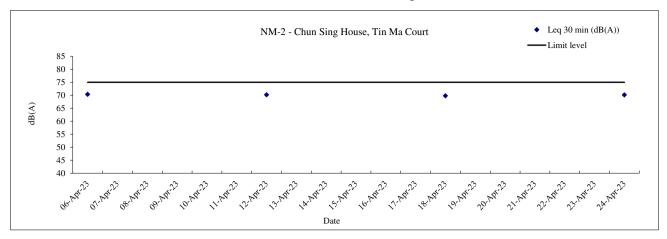


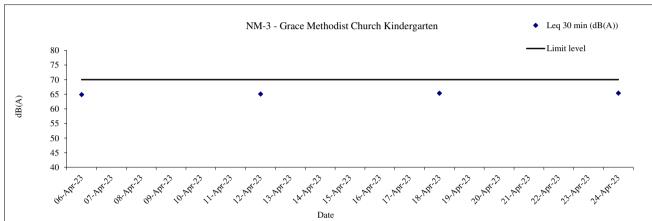
Construction Noise Monitoring Stations: Road pavement near Wang King House, Tin Wang Court (NM-4a)

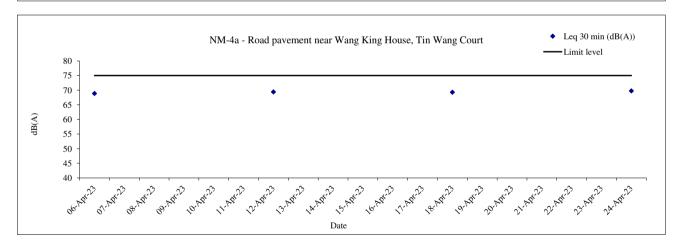
|                    |                     |            |      |      | dB(A)    |            |
|--------------------|---------------------|------------|------|------|----------|------------|
| Date               | Weather             | Start Time | Leq  | L10  | L90      | Leq(30min) |
|                    |                     | 10:20      | 69.0 | 72.9 | 58.0     |            |
|                    |                     | 10:25      | 68.2 | 71.6 | 58.7     |            |
| C A 2022           | Cloudy              | 10:30      | 67.9 | 71.8 | 56.8     | 68.9       |
| 6 Apr 2023         | Cloudy              | 10:35      | 67.7 | 71.3 | 57.5     | 06.9       |
|                    |                     | 10:40      | 68.8 | 72.5 | 58.6     |            |
|                    |                     | 10:45      | 70.8 | 73.6 | 58.4     |            |
|                    |                     | 9:31       | 70.3 | 73.3 | 57.0     |            |
|                    | 2 Apr 2023 Sunny    | 9:36       | 69.5 | 72.4 | 58.7     |            |
| 12 Apr 2022        |                     | 9:41       | 69.1 | 73.6 | 57.7     | 69.4       |
| 12 Apr 2023        |                     | 9:46       | 68.0 | 72.1 | 56.7     | 09.4       |
|                    |                     | 9:51       | 70.1 | 73.9 | 56.2     |            |
|                    |                     | 9:56       | 69.1 | 73.1 | 56.9     |            |
|                    |                     | 10:33      | 69.1 | 72.6 | 59.9     |            |
|                    |                     | 10:38      | 69.1 | 73.0 | 60.0     |            |
| 18 Apr 2023        | Fine                | 10:43      | 69.0 | 72.4 | 58.8     | 69.3       |
| 16 Apr 2023        | Tine                | 10:48      | 71.0 | 72.6 | 59.0     | 09.3       |
|                    |                     | 10:53      | 70.0 | 74.2 | 57.6     |            |
|                    |                     | 10:58      | 66.2 | 70.5 | 57.0     |            |
|                    |                     | 9:38       | 70.0 | 73.5 | 58.8     |            |
|                    |                     | 9:43       | 70.0 | 73.6 | 59.5     |            |
| 24 Apr 2022        | Cloudy              | 9:48       | 70.6 | 74.1 | 58.2     | 69.7       |
| 24 Apr 2023 Cloudy | pr 2023 Cloudy 9:53 | 9:53       | 70.1 | 71.9 | 60.2     | 69.7       |
|                    |                     | 9:58       | 67.4 | 71.0 | 58.1     |            |
|                    |                     | 10:03      | 69.7 | 73.3 | 58.4     |            |
|                    |                     |            |      |      | Min:     | 68.9       |
|                    |                     |            |      |      | Max:     | 69.7       |
|                    |                     |            |      |      | Average: | 69.3       |



#### Construction Noise Monitoring Results











# Appendix J

**Waste Generation in the Reporting Month** 

#### Monthly Summary Waste Flow Table for 2023

Contract No.: 21/WSD/21 Contract Title: Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

|           | Actual Qua                     | ntities of Inert (  | C&D Materials             | Generated /                    | Imported (i       | n '000m3)                   | Act         | tual Quantiti                    | es of C&D Was  | stes Genera       | ted                                  |         | Actual Quar                      | tities of C&D W  | astes Recycled           |                          |
|-----------|--------------------------------|---|---------------------------|--------------------------------|-------------------|-----------------------------|-------------|----------------------------------|--|-------------------|--------------------------------------|---------|----------------------------------|--|--------------------------|--------------------------|
| Month     | Total<br>Quantity<br>Generated | Broken<br>Concrete<br>(including<br>rock for<br>recycling into<br>aggregates) | Reused in the<br>Contract | Reused in<br>other<br>Projects | as Public<br>Fill | Imported<br>C&D<br>Material | Metals      | Paper/<br>cardboard<br>packaging | Plastics<br>(bottles/contai<br>ners,plastic<br>sheets/foam<br>package<br>material) | Chemical<br>Waste | Others,<br>e.g.<br>general<br>refuse | Metals  | Paper/<br>cardboard<br>packaging | Plastics<br>(bottles/contain<br>ers,plastic<br>sheets/foam<br>package<br>material) | Yard Waste               | Others                   |
| ,         | (a+b+c+d)                      | (a)   | (b)                       | (c)                            | (d)               | 0.00000                     | (in '000kg) |                                  | · · · · · · · · · · · · · · · · · · ·  | ,                 | (in '000m <sup>3</sup> )             | ( 8)    | (in '000kg)                      | (in '000kg)  | (in '000m <sup>3</sup> ) | (in '000m <sup>3</sup> ) |
| Jan       | 0.00000                        | 0.00000   | 0.00000                   | 0.00000                        | 0.00000           | 0.00000                     | 0.0000      | 0.00000                          | 0.00000  | 0.00000           | 0.00000                              | 0.0000  | 0.00000                          | 0.00000  | 0.00000                  | 0.00000                  |
| Feb       | 0.00000                        | 0.00000   | 0.00000                   | 0.00000                        | 0.00000           | 0.00000                     | 0.0000      | 0.00000                          | 0.00000  | 0.00000           | 0.00000                              | 0.0000  | 0.00000                          | 0.00000  | 0.00000                  | 0.00000                  |
| Mar       | 0.00000                        | 0.00000   | 0.00000                   | 0.00000                        | 0.00000           | 0.00000                     | 0.0000      | 0.00000                          | 0.00000  | 0.00000           | 0.00000                              | 0.0000  | 0.00000                          | 0.00000  | 0.00000                  | 0.00000                  |
| Apr       | 0.05712                        | 0.00000   | 0.00000                   | 0.00000                        | 0.05712           | 0.00000                     | 0.0000      | 0.00000                          | 0.00000  | 0.00000           | 0.20064                              | 0.0000  | 0.00000                          | 0.00000  | 0.00686                  | 0.00000                  |
| May       | 0.00000                        |   |                           |                                |                   |                             |             |                                  |  |                   |                                      |         |                                  |  |                          |                          |
| Jun       | 0.00000                        |   |                           |                                |                   |                             |             |                                  |  |                   |                                      |         |                                  |  |                          |                          |
| Sub-total | 0.05712                        | 0.00000   | 0.00000                   | 0.00000                        | 0.05712           | 0.00000                     | 0.0000      | 0.00000                          | 0.00000  | 0.00000           | 0.20064                              | 0.0000  | 0.00000                          | 0.00000  | 0.00686                  | 0.00000                  |
| Jul       | 0.00000                        |   |                           |                                |                   |                             |             |                                  |  |                   |                                      |         |                                  |  |                          |                          |
| Aug       | 0.00000                        |   |                           |                                |                   |                             |             |                                  |  |                   |                                      |         |                                  |  |                          |                          |
| Sep       | 0.00000                        |   |                           |                                |                   |                             |             |                                  |  |                   |                                      |         |                                  |  |                          |                          |
| Oct       | 0.00000                        |   |                           |                                |                   |                             |             |                                  |  |                   |                                      |         |                                  |  |                          |                          |
| Nov       | 0.00000                        |   |                           |                                |                   |                             |             |                                  |  |                   |                                      |         |                                  |  |                          |                          |
| Dec       | 0.00000                        |   |                           |                                |                   |                             |             |                                  |  |                   |                                      |         |                                  |  |                          | ·                        |
| Total     | 0.05712                        | 0.00000   | 0.00000                   | 0.00000                        | 0.05712           | 0.00000                     | 0.00000     | 0.00000                          | 0.00000  | 0.00000           | 0.20064                              | 0.00000 | 0.00000                          | 0.00000  | 0.00686                  | 0.00000                  |

Note:

- 1. Assume the density of soil fill is 2 ton/m3.
- 2. Assume the density of rock and broken concrete is 2.5 ton/m3.
- 3. Assume the density of non-inert C&D waste is 0.9 ton/m<sup>3</sup>.





## Appendix K

**Summary of Complaint, Notification of Summons and Prosecution and Cumulative Complaint Log** 





### Statistical Summary of Environmental Complaints

| Demonstrate Desired              | I         | Environmental Complaint | Statistics       |
|----------------------------------|-----------|-------------------------|------------------|
| Reporting Period                 | Frequency | Cumulative              | Complaint Nature |
| 31 March 2023 –<br>30 April 2023 | 0         | 0                       | N/A              |

#### Statistical Summary of Environmental Summons

| Demonstrat Desired               |                              | Environmental Summons Statistics |     |  |  |  |
|----------------------------------|------------------------------|----------------------------------|-----|--|--|--|
| Reporting Period                 | Frequency Cumulative Details |                                  |     |  |  |  |
| 31 March 2023 –<br>30 April 2023 | 0                            | 0                                | N/A |  |  |  |

#### Statistical Summary of Environmental Prosecution

| Reporting Period                 | Environmental Prosecution Statistics |            |         |  |  |
|----------------------------------|--------------------------------------|------------|---------|--|--|
|                                  | Frequency                            | Cumulative | Details |  |  |
| 31 March 2023 –<br>30 April 2023 | 0                                    | 0          | N/A     |  |  |

#### Statistical Summary of non-compliance (exceedances) of the reporting period

| Environmental<br>Monitoring | Parameter              | No. of non-<br>project<br>related<br>exceedances |   | Total no. of<br>non-project<br>related<br>exceedances | No. of exceedances related to the project AL LL |   | Total no. of exceedances related to the project |
|-----------------------------|------------------------|--|---|---|---|---|---|
| Air Quality                 | 1-hour<br>TSP          | 0  | 0 | 0   | 0   | 0 | 0   |
| Noise                       | $L_{eq(30	ext{-min})}$ | 0  | 0 | 0   | 0   | 0 | 0   |





### Cumulative Complaint Log

| EPD Complaint<br>Ref No. | Date of Complaint | Complaint Location | Complaint Details | Investigation / Mitigation Action | Status |
|--------------------------|-------------------|--------------------|-------------------|-----------------------------------|--------|
| -                        | -                 | -                  | -                 | -                                 | -      |