

# Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 18<sup>th</sup> Quarterly EM&A Report



# Quarterly EM&A Report No.18 (Period from 1 October to 31 December 2022)

(Clause 3.3, Further Environmental Permit FEP-01/429/2012/A)

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| Date:     | 20 March 2024             | 20 March 2024             | 20 March 2024                        |  |  |  |

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# **Revision History**

| В    | Updated Appendix C&D        | 18 March 2024   |
|------|-----------------------------|-----------------|
| A    | First Submission            | 20 January 2023 |
| Rev. | DESCRIPTION OF MODIFICATION | DATE            |

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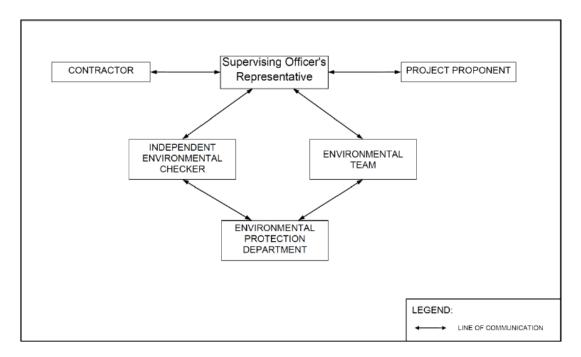
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# **EXECUTIVE SUMMARY**

- A1. The Project, Integrated Waste Management Facility (IWMF), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (FEP No. FEP-01/429/2012/A) for the construction and operation of the Project.
- A2. In accordance with the Updated Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 18<sup>th</sup> Quarterly EM&A Report, prepared by ASCL, for the Project summarizing and concluding the monitoring results and audit findings of the EM&A programme at and around Shek Kwu Chau (SKC) during the reporting period from 1 October 2022 to 31 December 2022.
- A4. The EM&A works for construction noise, water quality, construction waste, coral, marine mammal and White-Bellied Sea Eagle (WBSE) were conducted during the reporting period in accordance with the Updated EM&A Manual.
- A5. Weekly site inspections of the construction works were carried out by ET to audit the mitigation measures implementation status. Monthly joint site inspections were carried out by ET and IEC.

# 1. BASIC PROJECT INFORMATION

- 1.1. The Reporting Scope
- 1.1.1 This is the 18<sup>h</sup> Quarterly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 October 2022 to 31 December 2022.
- 1.2. Project Organization
- 1.2.2 The Project Organization structure for Construction Phase is presented in **Figure 1.1**.



**Figure 1.1 Project Organization Chart** 

1.2.3 Contact details of the key personnel are presented in **Table 1.1** below:

**Table 1.1 Contact Details of Key Personnel** 

| Tuble 111 Condition of Trey 1 croomer      |   |                |               |  |  |  |  |  |  |  |  |
|--|---|----------------|---------------|--|--|--|--|--|--|--|--|
| Party                                      | Position                                | Name           | Telephone no. |  |  |  |  |  |  |  |  |
| Environmental Protection Department        | Project<br>Proponent                    | Cheng Tak-Kuen | 2594-6111     |  |  |  |  |  |  |  |  |
| Keppel Seghers – Zhen<br>Hua Joint Venture | Project Manager                         | Kenny Yu       | 2192-0606     |  |  |  |  |  |  |  |  |
| Acuity Sustainability Consulting Limited   | Environmental<br>Team Leader            | F.C. Tsang     | 2698-6833     |  |  |  |  |  |  |  |  |
| ERM-Hong Kong, Limited                     | Independent<br>Environmental<br>Checker | Mandy To       | 2271-3000     |  |  |  |  |  |  |  |  |

# 1.3. Summary of Construction Works

1.3.1 Details of the major construction activities undertaken in this reporting period are shown in **Table 1.2** below. The construction programme is presented in **Appendix A**.

Table 1.2 Summary of the Construction Activities Undertaken during the Reporting Period

| <b>Location of works</b> | Construction activities undertaken                                 | Remarks on progress |
|--------------------------|--|---------------------|
| Reclamation area         | Reclamation works  | On-going            |
|                          | Installation of Instrumentation                                    | On-going            |
|                          | • Site Investigation works for foundation                          | On-going            |
|                          | Foundation works (including Driven<br>H Pile and Socketed H Pile)  | On-going            |
|                          | Pile cap construction  | On-going            |
|                          | Structural steel work  | On-going            |
| Seawall portion          | Installation of Chinese Pod  | On-going            |
|                          | • Caisson extension works, from +3mPD to +6mPD, at Seawall A and B | On-going            |
|                          | Construction of wave wall along the vertical seawall               | On-going            |

# 1.3.2 The status for all environmental aspects is presented in **Table 1.3**.

Table 1.3 Summary of Status for Key Environmental Aspects under the Updated EM&A Manual

| Parameters  | Status  |
|---|---|
| Water Quality   |   |
| Baseline Monitoring<br>under Updated EM&A<br>Manual and Detailed Plan<br>on DCM | The baseline water quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4   |
| Impact Monitoring   | On-going  |
| Regular DCM Monitoring  | All DCM was completed on 14 October 2020, regular DCM monitoring for further 4 weeks (i.e from 16 October 2020 to 14 November 2020) was completed according to the approved Detailed Plan on Deep Cement Mixing |
| Initial Intensive DCM Monitoring  | Conducted from 11 February 2019 to 10 March 2019, had not been resumed since there was no DCM related parameter exceeding the AL/LL.  |
| Baseline Water Quality of wet season  | Completed over 13 August 2018 to 7 September 2018   |
| Noise   |   |
| Baseline Monitoring   | The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4   |
| Impact Monitoring   | On-going  |
| Waste Management  |   |
| Mitigation Measures in  | On-going  |
| Waste Monitoring Plan   |   |
| Coral   |   |
| Pre-translocation Survey  | The Coral Translocation Plan was submitted and approved by  |
| and Coral Mapping   | EPD under EP Condition 2.12   |
| Coral Translocation   | Completed on 28 March 2018  |
| Post-Translocation Coral<br>Monitoring  | Survey affected by missing of translocated and tagged coral colonies after typhoons in September 2018, completed on 28 March 2019.  |
| Pre-construction Coral<br>Survey and Tagging                                    | Completed on 26 June 2018   |
| Tagged Coral Monitoring   | Survey obstructed due to missing of tagged coral colonies after typhoons in September 2018  |
| Coral Survey and Retagging  | Re-tagging at Indirect Impact Site was conducted on 23<br>November and Re-tagging at Control Site was conducted on 3<br>December 2018.  |
| Post Re-tagging Coral<br>Quarterly Monitoring                                   | On-going  |
| Marine Mammal   |   |
| Baseline Monitoring   | The baseline marine mammal monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4   |
| Impact Monitoring   | On-going  |
| Land-based Theodolite Tracking  | 30 days of theodolite surveys were started on 21 Feb 2019 and completed in May 2019.  |

| Parameters  | Status   |
|---|--|
| Passive Acoustic  | 30 days of PAM surveys were started on 1 May 2019 and  |
| Monitoring  | completed at the end of May 2019.  |
| White-bellied Sea Eagle   |  |
| Baseline Monitoring   | The baseline WBSE monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4   |
| Impact Monitoring   | On-going, Incubation activity was recorded during the monitoring on 29 December 2022, the frequency of impact monitoring will changed to weekly monitoring starting from January 2023.   |
| Environmental Audit   | •  |
| Site Inspection covering<br>Measures of Air Quality,<br>Noise Impact, Water<br>Quality, Waste,<br>Ecological Quality,<br>Fisheries, Landscape and<br>Visual | On-going   |
| Mitigation Measures in<br>Marine Mammal<br>Watching Plan (MMWP)   | Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. |
| Mitigation Measures in<br>Detailed Monitoring<br>Programme on Finless<br>Porpoise (DMPFP)   | Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. |
| Mitigation Measures in Vessel Travel Details  | On-going   |
| Daily Site Audit and<br>Monitoring for Dredging<br>Work   | Completed  |

- 1.3.3 Other than the EM&A works by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.
- 1.3.4 The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the Updated EM&A Manual. A summary of updated implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix B**.

# 2. MARINE WATER QUALITY MONITORING

- 2.1 Water Quality Parameters
- 2.1.1 Measurement of Dissolved Oxygen (DO), Turbidity, Suspended Solids (SS), Salinity and pH have been undertaken at the eleven monitoring stations during general water quality monitoring.
- 2.1.2 DO, temperature, salinity, turbidity and pH were measured in-situ and the SS was assayed in a HOKLAS laboratory.
- 2.1.3 In associate with the water quality parameters, other relevant data were also measured, such as monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or work underway nearby were also recorded.
- 2.1.4 Impact water quality monitoring was conducted 3 days per week in the reporting period. All parameters were monitored during mid-flood and mid-ebb tides at three water depths for water quality monitoring. The interval between two sets of monitoring has not been less than 36 hours.
- 2.1.5 **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact water quality monitoring.

Table 2.1 Water Quality Monitoring Parameters, Frequency and Duration

| Parameter, unit   | Frequency   | No. of Depths  |
|---|---|--|
| <ul> <li>Water Depth(m)</li> <li>Temperature(°C)</li> <li>Salinity(ppt)</li> <li>pH (pH unit)</li> <li>Dissolved Oxygen<br/>(DO)(mg/L and % of<br/>saturation)</li> <li>Turbidity(NTU)</li> <li>Suspended Solids (SS),<br/>mg/L</li> <li>Current velocity (m/s)</li> <li>Direction (in NESW)</li> </ul> | General water quality monitoring: 3 days per week, at mid-flood and mid-ebb tides | 3 water depths: 1m below sea surface, mid-depth and 1m above sea bed.  If the water depth is less than 3m, mid-depth sampling only.  If water depth is less than 6m, mid-depth may be omitted. |

#### 2.2 Water Quality Monitoring Locations

2.2.1 Impact water quality monitoring was conducted at eleven monitoring locations (i.e. B1-B4, H1, C1A, C2A, F1A, CR1, CR2 and M1) during general water quality monitoring as shown in **Figure 2.1**.

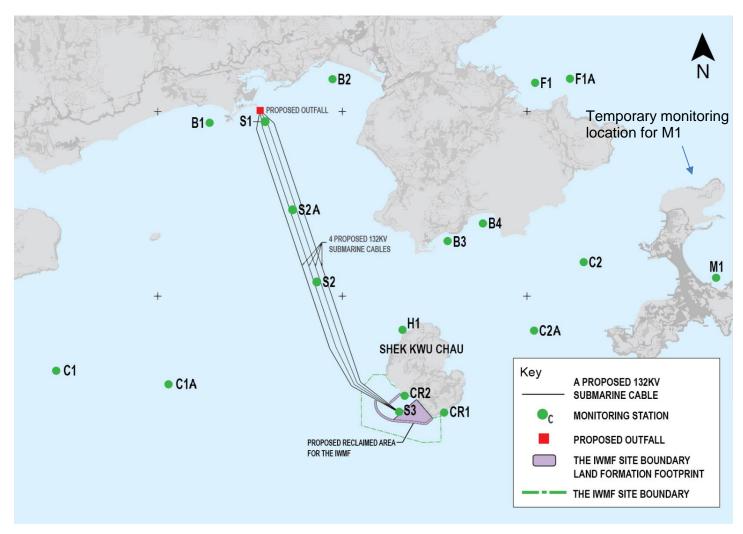


Figure 2.1 Water monitoring locations at Artificial Island near SKC

#### 2.3 Action and Limit Levels

2.3.1 Based on the baseline monitoring data and the derivation criteria presented in the Baseline Monitoring Report, the Action/Limit Levels have been derived and are presented in **Table 2.2** and **Table 2.3** for both dry seasons (October – March) and wet seasons (April – September).

**Table 2.2 Derived Action and Limit Levels for Water Quality Monitoring (Dry Season)** 

| Parameters        | Action  | Limit   |  |  |  |  |  |  |  |  |  |
|-------------------|---|---|--|--|--|--|--|--|--|--|--|
| Construction Phas | Construction Phase Impact Monitoring  |   |  |  |  |  |  |  |  |  |  |
| DO in mg/L        | ≤ 7.13  | ≤ 4   |  |  |  |  |  |  |  |  |  |
| SS in mg/L        | ≥ 8 or 120% of control station's SS   | $\geq$ 10 or 130% of control station's SS at  |  |  |  |  |  |  |  |  |  |
|                   | at the same tide of the same day of   | the same tide of the same day of  |  |  |  |  |  |  |  |  |  |
|                   | measurement, whichever is higher  | measurement, whichever is higher  |  |  |  |  |  |  |  |  |  |
| Turbidity in NTU  | $\geq$ 5.6 or 120% of control station's   | ≥ 12.81 or 130% of control station's  |  |  |  |  |  |  |  |  |  |
|                   | turbidity at the same tide of the same  | turbidity at the same tide of the same  |  |  |  |  |  |  |  |  |  |
|                   | day of measurement, whichever is  | day of measurement, whichever is  |  |  |  |  |  |  |  |  |  |
|                   | higher  | higher  |  |  |  |  |  |  |  |  |  |
| Temperature in°C  | 1.8°C above the temperature recorded at representative control station at the same tide of the same day | 2°C above the temperature recorded at representative control station at the same tide of the same day |  |  |  |  |  |  |  |  |  |

#### Notes:

i. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

ii. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

iii. For turbidity, SS and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than

Table 2.3 Derived Action and Limit Levels for Water Quality (Wet Season)

| Parameters               | Action  | Limit   |  |  |  |  |  |  |  |  |  |  |
|--------------------------|---|---|--|--|--|--|--|--|--|--|--|--|
| <b>Construction Phas</b> | Construction Phase Impact Monitoring  |   |  |  |  |  |  |  |  |  |  |  |
| DO in mg/L               | ≤ 5.28  | ≤ 4   |  |  |  |  |  |  |  |  |  |  |
| SS in mg/L               | ≥ 12 or 120% of control station's SS  | $\geq$ 14 or 130% of control station's SS at  |  |  |  |  |  |  |  |  |  |  |
|                          | at the same tide of the same day of   | the same tide of the same day of  |  |  |  |  |  |  |  |  |  |  |
|                          | measurement, whichever is higher  | measurement, whichever is higher  |  |  |  |  |  |  |  |  |  |  |
| Turbidity in NTU         | $\geq$ 4.0 or 120% of control station's   | $\geq$ 4.3 or 130% of control station's   |  |  |  |  |  |  |  |  |  |  |
|                          | turbidity at the same tide of the same  | turbidity at the same tide of the same  |  |  |  |  |  |  |  |  |  |  |
|                          | day of measurement, whichever is  | day of measurement, whichever is  |  |  |  |  |  |  |  |  |  |  |
|                          | higher  | higher  |  |  |  |  |  |  |  |  |  |  |
| Temperature in°C         | 1.8°C above the temperature recorded at representative control station at the same tide of the same day | 2°C above the temperature recorded at representative control station at the same tide of the same day |  |  |  |  |  |  |  |  |  |  |

#### Notes:

#### 2.4 Monitoring Results and Observations

2.4.1 As confirmed by the Contractor on 14 October 2020, all DCM works was completed on 14 October 2020, the post DCM water quality monitoring was completed for further 4 weeks (i.e. from 16 October 2020 to 14 November 2020) according to the approved Detailed Plan on Deep Cement Mixing. As all DCM work and post DCM water quality monitoring were completed on 14 November 2020, no water quality monitoring was conducted at S1, S2A and S3 after 14 November 2020. Monitoring results of 6 key parameters: Salinity, DO, turbidity, SS, pH and temperature for general water quality monitoring during the reporting period, are summarized in **Table 2.4**, and results trending are presented graphically in **Appendix C.** 

i. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

ii. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

iii. For turbidity, SS and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 Keppel Seghers – Zhen Hua Joint Venture 18<sup>th</sup> Quarterly EM&A Report

**Table 2.4 Summary of Regular Impact Water Quality Monitoring Results** 

|     | Parameters   |                |                |                  |                         |              |              |              |              |              |              |              |                 |            |            |                         |               |              |              |              |      |      |
|-----|--------------|----------------|----------------|------------------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------|------------|------------|-------------------------|---------------|--------------|--------------|--------------|------|------|
|     |              |                |                |                  | Dissolved Oxygen (mg/L) |              |              |              |              |              |              |              |                 |            |            |                         |               |              |              |              |      |      |
| Loc | ations       | Salinity (ppt) |                | Surface & Middle |                         |              | Bottom       |              |              | pН           |              |              | Turbidity (NTU) |            |            | Suspended Solids (mg/L) |               |              | Temp. (°C)   |              |      |      |
|     |              | Oct            | Oct Nov Dec    |                  | Oct                     | Nov          | Dec          | Oct          | Nov          | Dec          | Oct          | Nov          | Dec             | Oct        | Nov        | Dec                     | Oct           | Nov          | Dec          | Oct          | Nov  | Dec  |
|     | Avg.         | 32.64          | 32.67          | 32.45            | 8.58                    | 8.89         | 8.94         | 8.59         | 8.89         | 8.95         | 8.24         | 8.29         | 8.29            | 3.1        | 3.1        | 3.7                     | 10.11         | 7.76         | 6.94         | 27.0         | 24.8 | 21.3 |
| B1  | Min.         | 31.21          | 30.96          | 30.51            | 7.90                    | 8.30         | 8.13         | 7.97         | 8.33         | 8.15         | 8.12         | 8.16         | 8.18            | 2.0        | 2.3        | 2.6                     | 2.50          | 2.50         | 2.00         | 25.2         | 23.2 | 20.0 |
|     | Max.         | 34.47          | 33.97          | 33.90            | 9.63                    | 9.50         | 9.70         | 9.53         | 9.62         | 9.65         | 8.35         | 8.62         | 8.42            | 4.0        | 3.9        | 7.4                     | 28.00         | 21.00        | 21.00        | 28.7         | 25.7 | 23.6 |
|     | Avg.         | 32.62          | 32.54          | 32.45            | 8.69                    | 8.77         | 8.85         | 8.68         | 8.76         | 8.82         | 8.22         | 8.26         | 8.27            | 3.1        | 3.1        | 3.4                     | 9.91          | 8.56         | 7.90         | 27.0         | 24.8 | 21.3 |
| B2  | Min.         | 31.14          | 31.08          | 30.27            | 7.84                    | 8.07         | 8.24         | 7.84         | 8.08         | 8.24         | 8.02         | 8.10         | 8.12            | 2.2        | 2.3        | 2.6                     | 2.50          | 2.50         | 2.00         | 25.0         | 23.4 | 20.1 |
|     | Max.         | 34.70          | 34.17          | 34.26            | 9.38                    | 9.44         | 9.48         | 9.34         | 9.48         | 9.49         | 8.35         | 8.38         | 8.43            | 3.9        | 5.9        | 6.0                     | 25.00         | 21.00        | 23.00        | 28.8         | 25.6 | 23.2 |
| D.0 | Avg.         | 32.38          | 32.65          | 32.19            | 8.59                    | 8.85         | 8.64         | 8.58         | 8.86         | 8.64         | 8.23         | 8.29         | 8.28            | 4.3        | 4.4        | 4.7                     | 10.20         | 9.86         | 7.88         | 27.0         | 24.8 | 21.3 |
| В3  | Min.         | 31.00          | 31.41          | 30.51            | 8.08                    | 8.23         | 8.19         | 8.08         | 8.21         | 8.20         | 8.06         | 8.16         | 8.16            | 3.1        | 3.3        | 3.2                     | 2.50          | 2.50         | 2.00         | 25.3         | 23.4 | 20.0 |
|     | Max.         | 33.54          | 34.35          | 33.31            | 9.48                    | 9.47         | 9.57         | 9.45         | 9.43         | 9.61         | 8.39         | 8.84         | 8.38            | 5.6        | 5.5        | 6.5                     | 23.00         | 26.00        | 23.00        | 28.7         | 25.6 | 23.3 |
| D.4 | Avg.         | 32.62          | 32.57          | 32.41            | 8.63                    | 8.81         | 8.69         | 8.64         | 8.85         | 8.71         | 8.23         | 8.28         | 8.30            | 4.3        | 4.4        | 4.7                     | 10.14         | 10.17        | 8.80         | 26.9         | 24.7 | 21.3 |
| B4  | Min.         | 31.02          | 31.05          | 30.97            | 7.94                    | 7.87         | 8.06         | 7.98         | 7.94         | 8.19         | 8.10         | 8.08         | 8.19            | 3.2        | 3.2        | 3.2                     | 2.50          | 2.50         | 2.00         | 25.3         | 23.2 | 19.9 |
|     | Max.         | 34.57          | 34.20          | 34.23            | 9.41                    | 9.66         | 9.52         | 9.47         | 9.70         | 9.54         | 8.37         | 8.77         | 8.42            | 6.0        | 5.9        | 6.2                     | 22.00         | 20.00        | 29.00        | 28.6         | 25.6 | 23.6 |
|     | Avg.<br>Min. | 32.75<br>31.42 | 32.45<br>30.99 | 32.48            | 8.45                    | 8.82         | 8.57         | 8.50         | 8.80<br>8.20 | 8.58<br>8.07 | 8.24<br>8.10 | 8.30<br>8.12 | 8.28            | 5.5<br>3.8 | 5.6        | 5.9<br>3.7              | 10.08         | 9.42<br>2.50 | 8.07<br>2.00 | 27.0<br>25.3 | 24.8 | 21.3 |
| C1A | Max.         | 34.81          | 33.64          | 30.40<br>34.21   | 7.83<br>9.27            | 8.29<br>9.54 | 8.02<br>9.64 | 7.85<br>9.27 | 9.58         | 9.68         | 8.10         | 9.38         | 8.19<br>8.42    | 7.5        | 3.6<br>7.6 | 7.9                     | 2.50<br>22.00 | 24.00        | 21.00        | 28.6         | 25.5 | 23.5 |
|     | Avg.         | 32.60          | 32.43          | 32.48            | 8.65                    | 9.34<br>8.77 | 8.80         | 8.64         | 8.77         | 8.80         | 8.23         | 8.31         | 8.42            | 5.3        | 5.6        | 5.9                     | 10.33         | 10.06        | 8.40         | 27.0         | 24.8 | 21.2 |
| C2A | Min.         | 30.89          | 30.91          | 30.26            | 7.70                    | 8.14         | 8.08         | 7.76         | 8.16         | 8.02         | 8.09         | 8.08         | 8.11            | 3.6        | 3.7        | 4.1                     | 2.50          | 2.50         | 2.00         | 25.4         | 23.3 | 20.0 |
| CZA | Max.         | 33.98          | 34.28          | 33.86            | 9.56                    | 9.65         | 9.55         | 9.60         | 9.51         | 9.60         | 8.39         | 9.43         | 8.37            | 8.0        | 7.3        | 8.7                     | 22.00         | 24.00        | 22.00        | 28.6         | 25.7 | 23.3 |
|     | Avg.         | 32.66          | 32.30          | 32.53            | 8.64                    | 8.87         | 8.73         | 8.65         | 8.86         | 8.74         | 8.23         | 8.28         | 8.29            | 4.4        | 4.6        | 4.9                     | 9.96          | 8.61         | 8.20         | 26.9         | 24.9 | 21.3 |
| CR1 | Min.         | 30.83          | 30.96          | 30.73            | 7.86                    | 8.13         | 7.85         | 7.93         | 8.19         | 7.85         | 8.13         | 8.11         | 8.14            | 2.9        | 2.3        | 3.3                     | 2.50          | 2.50         | 2.00         | 25.1         | 23.5 | 20.0 |
|     | Max.         | 34.32          | 33.92          | 34.06            | 9.60                    | 9.78         | 9.74         | 9.56         | 9.66         | 9.69         | 8.34         | 8.76         | 8.40            | 7.2        | 6.2        | 7.7                     | 25.00         | 20.00        | 25.00        | 28.6         | 25.6 | 23.2 |
|     | Avg.         | 32.59          | 32.70          | 32.37            | 8.48                    | 8.76         | 8.78         | 8.50         | 8.73         | 8.81         | 8.26         | 8.28         | 8.28            | 4.1        | 4.5        | 5.0                     | 11.08         | 9.60         | 8.51         | 26.9         | 24.8 | 21.2 |
| CR2 | Min.         | 31.17          | 30.98          | 30.39            | 7.88                    | 7.86         | 8.14         | 7.88         | 7.94         | 8.22         | 8.14         | 8.12         | 8.15            | 2.7        | 2.8        | 3.2                     | 2.50          | 2.50         | 2.00         | 25.1         | 23.3 | 19.9 |
|     | Max.         | 34.92          | 34.42          | 33.46            | 9.33                    | 9.63         | 9.58         | 9.30         | 9.59         | 9.60         | 8.37         | 8.48         | 8.39            | 6.2        | 6.1        | 6.9                     | 25.00         | 24.00        | 26.00        | 28.6         | 25.7 | 23.2 |
|     | Avg.         | 32.73          | 32.58          | 32.28            | 8.52                    | 8.80         | 8.81         | 8.52         | 8.83         | 8.81         | 8.24         | 8.28         | 8.28            | 4.2        | 4.3        | 4.5                     | 10.53         | 9.38         | 8.02         | 27.0         | 24.9 | 21.3 |
| F1A | Min.         | 31.07          | 31.12          | 30.06            | 7.75                    | 8.23         | 7.96         | 7.75         | 8.33         | 8.02         | 8.06         | 8.14         | 8.20            | 2.9        | 2.8        | 3.0                     | 2.50          | 2.50         | 2.00         | 25.2         | 23.2 | 20.0 |
|     | Max.         | 33.85          | 34.54          | 33.72            | 9.44                    | 9.49         | 9.61         | 9.38         | 9.57         | 9.60         | 8.37         | 8.81         | 8.38            | 6.6        | 6.3        | 6.1                     | 23.00         | 23.00        | 22.00        | 28.7         | 25.7 | 23.2 |
| H1  | Avg.         | 32.61          | 32.66          | 32.37            | 8.51                    | 8.92         | 8.66         | 8.50         | 8.92         | 8.67         | 8.23         | 8.32         | 8.30            | 4.1        | 4.4        | 4.7                     | 9.94          | 9.16         | 8.26         | 27.0         | 24.8 | 21.2 |
| 111 | Min.         | 30.91          | 31.07          | 30.60            | 7.80                    | 8.20         | 7.89         | 7.81         | 8.29         | 7.90         | 8.12         | 8.12         | 8.19            | 2.9        | 3.1        | 3.3                     | 2.50          | 2.50         | 2.00         | 25.4         | 23.2 | 20.0 |

Acuity Sustainability Consulting Limited

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18th Quarterly EM&A Report

|   |          |                |       |                         |      |        |      |      |      |                 |      | Paramet                 | ters |            |     |     |       |       |       |      |      |      |
|---|----------|----------------|-------|-------------------------|------|--------|------|------|------|-----------------|------|-------------------------|------|------------|-----|-----|-------|-------|-------|------|------|------|
|   |          | Salinity (ppt) |       | Dissolved Oxygen (mg/L) |      |        |      |      |      |                 |      |                         |      |            |     |     |       |       |       |      |      |      |
| L | ocations |                |       | Surface & Middle        |      | Bottom |      | pН   |      | Turbidity (NTU) |      | Suspended Solids (mg/L) |      | Temp. (°C) |     | )   |       |       |       |      |      |      |
|   | carions  | Oct            | Nov   | Dec                     | Oct  | Nov    | Dec  | Oct  | Nov  | Dec             | Oct  | Nov                     | Dec  | Oct        | Nov | Dec | Oct   | Nov   | Dec   | Oct  | Nov  | Dec  |
|   | Max.     | 34.04          | 34.29 | 33.90                   | 9.25 | 9.70   | 9.48 | 9.24 | 9.69 | 9.40            | 8.36 | 9.60                    | 8.44 | 6.2        | 6.9 | 7.4 | 23.00 | 25.00 | 32.00 | 28.8 | 25.6 | 23.2 |
|   | Avg.     | 32.63          | 32.80 | 32.41                   | 8.62 | 8.86   | 8.81 | 8.65 | 8.87 | 8.82            | 8.25 | 8.28                    | 8.29 | 4.2        | 4.2 | 4.5 | 11.08 | 10.01 | 8.43  | 27.0 | 24.8 | 21.3 |
| M | Min.     | 30.87          | 31.29 | 30.29                   | 7.91 | 8.29   | 8.14 | 7.93 | 8.32 | 8.15            | 8.13 | 8.11                    | 8.19 | 2.7        | 2.1 | 2.8 | 2.50  | 2.50  | 3.00  | 25.1 | 23.3 | 19.9 |
|   | Max.     | 34.63          | 34.16 | 33.96                   | 9.41 | 9.72   | 9.64 | 9.40 | 9.77 | 9.60            | 8.36 | 8.50                    | 8.47 | 6.7        | 6.0 | 7.7 | 27.00 | 24.00 | 23.00 | 28.7 | 25.6 | 23.4 |

#### Notes:

i. "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-flood and mid-ebb tides at three water depths, except that of DO where the data for "Surface & Middle" and "Bottom" are calculated separately.

- 2.4.2 All of the monitoring results for temperature, DO and turbidity obtained in the reporting period complied with their corresponding Action and Limit levels. Forty (40) of the general water quality monitoring results of SS had exceeded Action Level during the reporting period, while Fifty (50) exceedances of the Limit Level of SS were also recorded. For the salinity, pH, DO, turbidity, temperature and SS, their trends were fluctuated independent to the site activities and presented in **Appendix C**.
- 2.4.3 No major pollution source which might affect the results was observed during the impact monitoring.
- 2.4.4 During the water quality monitoring for ebb tide on 17 October 2022, the location for monitoring station M1 was temporarily changed to the north of Cheung Chau (as shown on Figure 2.1) due to strong swell brought by typhoon NESAT. During the water quality monitoring for ebb tide and flood tide on 2 and 5 December 2022, the location for monitoring station M1 was temporarily changed to the north of Cheung Chau (as shown on Figure 2.1) due to strong swell brought by monsoon. The coordinate of temporary monitoring location for M1 on 17 October 2022, 2 and 5 December 2022 2022 was E809305, N821294.
- 2.4.5 The impact water monitoring event for flood tide on 17 October 2022 was cancelled due to the adverse weather under typhoon NESAT and the scheduled impact water monitoring event on 2 November 2022 was cancelled due to the adverse weather under typhoon NALGAE.
- 2.4.6 Details of the exceedance are presented in **Section 8**.
- 2.4.7 Implemented mitigation measures minimizing the adverse impacts on water are listed in the implementation schedule given in **Appendix B**.

# 3. Noise Monitoring

- 3.1 Noise Monitoring Parameters
- 3.1.1 Impact noise monitoring was conducted weekly in the reporting period between 0700 and 1900 hours on normal weekdays. Additional impact noise monitoring was conducted weekly in the reporting period between 1900 and 0700 hours on all days as well as public holidays and Sundays.
- 3.1.2 Construction noise level measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{Aeq}$ ).  $L_{eq\ 30min}$  was used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays.  $L_{eq\ 5min}$  was used as the monitoring parameter for the time period between 1900 and 0700 hours as well as public holidays and Sundays. **Table 3.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring and additional impact noise monitoring.

Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

| Monitoring<br>Station              | Time  | Duration  | Parameters  |
|------------------------------------|---|---|---|
|                                    | Day time:<br>0700-1900 hrs<br>(during normal weekdays)                                    | Once per week $L_{eq~5min}/L_{eq~30min}  (average \\ of 6~consecutive~L_{eq~5min})$ | L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub> |
| M1/ N_S1,<br>M2/ N_S2,<br>M3/ N_S3 | Evening time: 1900-2300 hrs (including normal weekdays, also public holidays and Sundays) | Once per week L <sub>eq 5min</sub> (3 sets of L <sub>eq 5min</sub> )                | L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub> |
|                                    | Night time: 2300-0700 hrs (including normal weekdays, also public holidays and Sundays)   | Once per week $L_{eq 5min}$ (3 sets of $L_{eq 5min}$ )                              | L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub> |

- 3.2 Noise Monitoring Locations
- 3.2.1 Three noise monitoring locations for impact monitoring and additional impact monitoring at the nearby sensitive receivers are shown in **Figure 3.1**

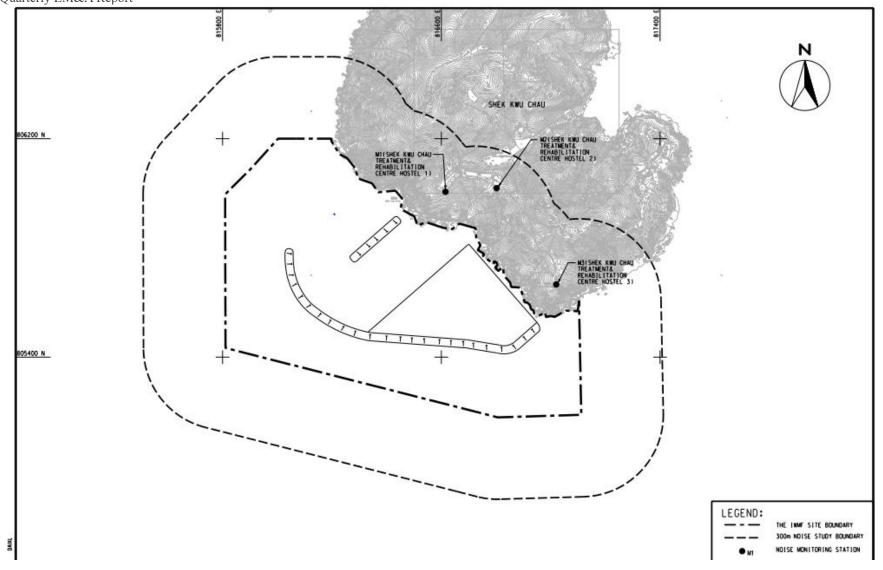


Figure 3.1 Noise monitoring locations at SKC

- 3.2.2 M1, M2 and M3 are Shek Kwu Chau Treatment and Rehabilitation Centre Hostel 1, 2 and 3 respectively of The Society for the Aid and Rehabilitation of Drug Abusers (SARDA) located at southern part of Shek Kwu Chau.
- 3.2.3 Measurements at M1 & M3 were conducted at a point 1m from the exterior of the sensitive receivers building façade and at a position 1.2m above the ground. Measurement setup at M3 has been varying with minor adjustment to minimize the disturbance to the users of Treatment Centre. Measurement at M2 was conducted at a point 1m from building façade of the ceiling of 1st floor level for avoidance of mutual disturbance with users of Treatment Centre. The minor adjustment of monitoring locations, which were in favour to mutual convenience with the users of Treatment Centre, were found with no effect on monitoring result based on on-site observation and experience from the Baseline monitoring of the Project.
- 3.2.4 The noise monitoring stations are summarized in **Table 3.2** below.

| Station | NSR ID in<br>EIA Report | Noise Monitoring Location                                | Type of sensitive receiver(s) | Measurement<br>Type |
|---------|-------------------------|--|-------------------------------|---------------------|
| M1      | N_S1                    | Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 | Residential                   | Façade              |
| M2      | N_S2                    | Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 | Residential                   | Façade              |
| M3      | N_S3                    | Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 | Residential                   | Façade              |

**Table 3.2 Noise Monitoring Location** 

#### 3.3 Action and Limit Levels

3.3.1 The Action/Limit Levels in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities – Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 is presented in **Table 3.3.** 

Table 3.3 Action and Limit Levels for Noise per Updated EM&A Manual

| Time Period             | Action                | Limit (dB(A)) |  |
|-------------------------|-----------------------|---------------|--|
| 0700-1900 hrs on normal | When one documented   | 75 dB(A)      |  |
| weekdays                | complaint is received | /3 dB(A)      |  |

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

#### 3.4 Monitoring Results and Observations

3.4.1 Impact monitoring for noise impact for daytime was conducted in the reporting period. The impact noise levels at Noise Monitoring Stations at SKC (i.e. M1/ N\_S1 to M3/ N\_S3) are summarized in **Table 3.5**. Additional impact monitoring during restricted hours was conducted in the reporting period. The additional impact noise levels at Noise Monitoring Stations at SKC (i.e. M1/ N\_S1 to M3/ N\_S3) are summarized in **Table 3.6** and **Table 3.7** respectively. Trending of the noise monitoring results is presented graphically in **Appendix D**.

- 3.4.2 Major construction activity, major noise source and extreme weather which might affect the results were recorded during the impact monitoring.
- 3.4.3 According to our field observations, the major noise source identified at the noise monitoring station in the reporting quarter are summarised in **Table 3.4**. Sound from the intermittent piling work was the noticeable noise source for monitoring stations M1, M2 and M3. Air conditioning units were also observed at station M3 during the impact monitoring.

**Table 3.4 Summary of Field Observation** 

| Monitoring Station | Major Noise Source  |
|--------------------|---|
| M1                 | Sound from the intermittent piling work                   |
| M2                 | Sound from the intermittent piling work                   |
| M3                 | Sound from the intermittent piling work, air-conditioners |

3.4.4 No data from impact monitoring during daytime had exceeded the stipulated limit level at 75 dB(A).

Table 3.5 Summary of Impact Noise Monitoring Results during Daytime (0700 – 1900 hrs)

|          |        | Noise in dB(A) |        |        |                            |        |                                |        |        |  |  |  |  |
|----------|--------|----------------|--------|--------|----------------------------|--------|--------------------------------|--------|--------|--|--|--|--|
| Location | Ra     | nge of Leq 30  | min    | Ra     | inge of L <sub>10</sub> 30 | min    | Range of L <sub>90</sub> 30min |        |        |  |  |  |  |
|          | Oct    | Nov            | Dec    | Oct    | Nov                        | Dec    | Oct                            | Nov    | Dec    |  |  |  |  |
| 3.61     | 62.4 – | 58.3 –         | 58.6 – | 65.9 – | 61.4 –                     | 59.8 – | 54.9 –                         | 50.8 - | 52.6 - |  |  |  |  |
| M1       | 65.9   | 64.5           | 65.5   | 70.2   | 69.6                       | 70.2   | 59.6                           | 57.6   | 55.5   |  |  |  |  |
| 140      | 57.9 – | 57.8 –         | 52.8 - | 59.8 – | 61.6 –                     | 54.4 – | 53.6 -                         | 51.8 - | 50.8 - |  |  |  |  |
| M2       | 62.0   | 62.5           | 57.6   | 64.9   | 65.4                       | 59.9   | 55.8                           | 55.9   | 52.9   |  |  |  |  |
| M2       | 60.0 – | 55.5 –         | 57.7 – | 62.8 – | 57.8 –                     | 61.7 – | 52.3 –                         | 50.8 – | 51.3 – |  |  |  |  |
| M3       | 60.6   | 62.3           | 68.1   | 64.0   | 63.2                       | 70.4   | 55.6                           | 56.9   | 56.6   |  |  |  |  |

- 3.4.5 Applicable mitigation measures for construction works are fully implemented as shown in **Appendix B**, where double-glazed windows and air conditioning system were also installed and confirmed operable for the NSRs (N\_S1, N\_S2 & N\_S3).
- 3.4.6 During the noise monitoring event, frontline staff of ET have inquired the treatment centre users on any noise disturbance from the construction activities at evening and night time, where no complaint and adverse opinions was received.
- 3.4.7 Data from impact monitoring during evening time and night time were compared with the NCO criteria. Where site inspection and auditing on Contractor's record have shown that the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority for construction works during restricted hours were followed. No inappropriate practice were spotted during evening time and night time construction works, thus the stipulated requirement on noise impact control during night time and evening time was achieved.

Table 3.6 Summary of the Additional Impact Noise Monitoring Results during Evening Time (1900-2300 hrs)

|          |        | Noise in dB(A)            |        |        |                          |        |                               |        |        |  |  |  |  |  |
|----------|--------|---------------------------|--------|--------|--------------------------|--------|-------------------------------|--------|--------|--|--|--|--|--|
| Location | Ra     | inge of L <sub>eq</sub> 5 | imin   | Ra     | nge of L <sub>10 5</sub> | min    | Range of L <sub>90 5min</sub> |        |        |  |  |  |  |  |
|          | Oct    | Nov                       | Dec    | Oct    | Nov                      | Dec    | Oct                           | Nov    | Dec    |  |  |  |  |  |
| 3.41     | 44.8 – | 42.5 –                    | 41.6 – | 45.9 – | 44.0 –                   | 43.3 – | 43.4 –                        | 40.6 – | 39.6 – |  |  |  |  |  |
| M1       | 54.9   | 52.0                      | 47.5   | 58.2   | 53.9                     | 54.1   | 49.4                          | 49.0   | 45.1   |  |  |  |  |  |
| 3.40     | 46.2 – | 41.6 –                    | 46.6 – | 47.0 – | 42.9 –                   | 47.8 – | 44.9 –                        | 39.4 – | 44.6 – |  |  |  |  |  |
| M2       | 53.4   | 59.0                      | 55.3   | 54.5   | 65.4                     | 61.4   | 51.6                          | 53.6   | 50.1   |  |  |  |  |  |
| M2       | 42.9 – | 42.1 -                    | 42.7 – | 44.5 – | 42.9 –                   | 43.5 – | 41.0 -                        | 40.6 – | 41.3 – |  |  |  |  |  |
| M3       | 61.9   | 58.6                      | 46.5   | 62.6   | 60.0                     | 48.8   | 61.2                          | 51.5   | 45.6   |  |  |  |  |  |

Table 3.7 Summary of Additional Impact Noise Monitoring Results during Night Time  $(2300-0700\ hrs)$ 

|          |        | Noise in dB(A)           |        |        |                          |        |                               |        |        |  |  |  |  |
|----------|--------|--------------------------|--------|--------|--------------------------|--------|-------------------------------|--------|--------|--|--|--|--|
| Location | Ra     | nge of L <sub>eq</sub> 5 | imin   | Ra     | nge of L <sub>10</sub> 5 | min    | Range of L <sub>90</sub> 5min |        |        |  |  |  |  |
|          | Oct    | Nov                      | Dec    | Oct    | Nov                      | Dec    | Oct                           | Nov    | Dec    |  |  |  |  |
| N/1      | 42.7 – | 43.3 –                   | 39.8 – | 44.2 – | 44.7 –                   | 41.1 – | 39.1 –                        | 38.8 - | 38.1 – |  |  |  |  |
| M1       | 57.3   | 46.5                     | 44.6   | 60.3   | 49.0                     | 45.9   | 51.7                          | 45.4   | 43.0   |  |  |  |  |
| MO       | 44.1 – | 38.1 –                   | 45.1 – | 44.6 – | 39.4 –                   | 46.6 – | 43.3 –                        | 37.0 – | 43.9 – |  |  |  |  |
| M2       | 55.4   | 54.8                     | 58.4   | 57.0   | 57.4                     | 61.4   | 51.9                          | 50.4   | 53.7   |  |  |  |  |
| M2       | 41.9 – | 40.1 –                   | 40.2 – | 42.6 – | 40.9 –                   | 40.9 – | 38.4 –                        | 36.5 – | 39.4 – |  |  |  |  |
| M3       | 50.9   | 54.4                     | 49.5   | 54.6   | 56.9                     | 50.3   | 46.5                          | 49.7   | 47.7   |  |  |  |  |

# 4. WASTE

- 4.1 The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials.
- 4.2 As advised by the Contractor, for C&D waste, 69,013.3m³ C&D material was generated on site in the reporting months and disposed as public fill. 580.0kg of paper was generated on site and collected by registered recycling collector. 78,100.00kg of metal waste was collected by registered recycling collector. No chemical waste was collected by the licensed chemical waste collector. 598.0m³ of other types of wastes (e.g. general refuse) were generated on site and disposed of at Landfill. 22,589.4m³ of fill rock was imported during the reporting quarter.
- 4.3 Chemical waste generated from land-based construction activities was stored in the chemical waste cabinet for temporary storage.
- 4.4 With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix E**.
- 4.5 The Contractor is advised to sort and store any solid and liquid waste on-site properly prior to disposal.

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Table 4.1 Quantities of Waste Generated from the Project

|                    |                                | Actual Q  | uantities of I               | nert C&D Ma                    | aterials Genei                | Actual Quantities of C&D Wastes Generated Monthly |                          |         |                                   |                             |                     |             |  |                          |
|--------------------|--------------------------------|---|------------------------------|--------------------------------|-------------------------------|---|--------------------------|---------|-----------------------------------|-----------------------------|---------------------|-------------|--|--------------------------|
| Reporting<br>Month | Total<br>Quantity<br>Generated | Hard Rock<br>and Large<br>Broken<br>Concrete<br>(see Note<br>1) | Reused in<br>the<br>Contract | Reused in<br>other<br>Projects | Disposed<br>as Public<br>Fill | Sand Public Fill Rock                             |                          | Metals  | Paper /<br>cardboard<br>packaging | Plastics<br>(see Note<br>2) | Note Chemical Waste |             | Others,<br>e.g.<br>general<br>refuse (see<br>Note 3) |                          |
|                    | (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 ,000L)   | (in ,000m <sup>3</sup> ) |
| Oct 2022           | 13.3139                        | 0   | 0                            | 13.3006                        | 0.0133                        | 0   | 0                        | 11.8665 | 78.1000                           | 0.5800                      | 0                   | 0           | 0  | 0.2340                   |
| Nov 2022           | 26.5583                        | 0   | 0                            | 26.5583                        | 0                             | 0   | 0                        | 7.2055  | 0                                 | 0                           | 0                   | 0           | 0  | 0.1105                   |
| Dec 2022           | 29.1411                        | 0   | 0                            | 29.1411                        | 0                             | 0   | 0                        | 3.5174  | 0                                 | 0                           | 0                   | 0           | 0  | 0.2535                   |

#### Notes:

- 1. Broken concrete for recycling into aggregates.
- 2. Plastic refer to plastic bottles / containers, plastic sheets / foam from packaging materials.
- 3. Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m³ by volume.
- 4. Use the conversion factor: rock density =  $2 \text{ T/m}^3$ .

#### 5. CORAL

# 5.1 Coral Monitoring Parameters

- 5.1.1 Ten (10) tagged coral colonies at each site of suggested control site and indirect impact site are being monitored weekly for the first month and followed by monthly monitoring for three months. The selected Control Site is located at Yuen Kong Chau of Soko Islands about 7 km away from the project area. After the hitting of super typhoon Mangkhut in mid-September 2018, the coral re-tagging activities at indirect impact site and control site were conducted in November and December 2018 respectively. Tagged coral colonies at the proposed recipient site are being monitored quarterly for one year and the last post-translocation coral monitoring was completed on 28 Mar 2019. The selected recipient site R3 is located the opposite side of the Project area at about 2 km away.
- 5.1.2 Monitoring recorded the following parameters (using the same methodology adopted during the pre-translocation survey); the size, presence, health conditions (percentage of mortality/bleaching) and percentage of sediment of each trans-located coral colony. The general environmental conditions including weather, sea, and tidal conditions of survey sites were monitored.
- 5.1.3 Health status of coral was assessed by the following criteria:
  Hard coral: Percentage of surface area exhibiting partial mortality and blanched/bleached area of each coral colony and degree of sedimentation.

#### 5.2 Coral Monitoring Locations

Location of the ten tagged coral colonies at each of the proposed indirect impact site, control site, the recipient site R3 and REA transect at proposed indirect impact site are shown in **Figure 5.1**, **Figure 5.2** and **Figure 5.3** respectively:

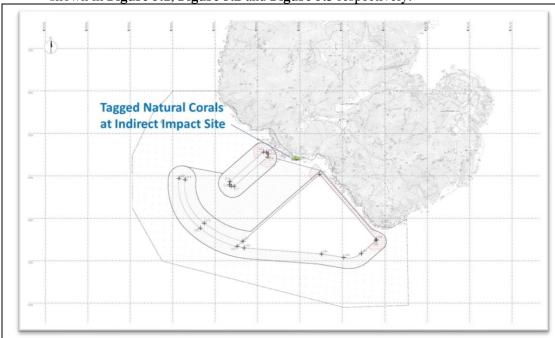


Figure 5.1 Tagged Natural Corals at Indirect Impact Site Near SKC for re-tagging after typhoon Mangkhut



Figure 5.2 Tagged Natural Corals at Control Site Near Yuen Kong Chau for retagging after typhoon Mangkhut



Figure 5.3 Tagged Translocation Corals at Recipient Site R3 near SKC

5.2.1 The GPS coordinates of the tagged coral colonies and retagged coral colonies at both indirect impact site, control site and recipient site R3 were shown in **Table 5.1**, **Table 5.2** and **Table 5.3** respectively.

Table 5.1 Tagged Natural Corals during Baseline and Re-tagged Natural Corals after Typhoon Manghkut at Control Site near Yuen Long Chau

| Coral # note i | GPS           | Coordinates    |
|----------------|---------------|----------------|
| 1              | N22°09'45.96" | E113°54'57.81" |
| 2R             | N22°11'29.12" | E113°59'09.01" |
| 3              | N22°09'45.81" | E113°54'57.78" |
| 4              | N22°09'45.70" | E113°54'57.95" |
| 5R             | N22°11'29.10" | E113°59'09.18" |
| 6              | N22°09'45.75" | E113°54'58.02" |
| 7R             | N22°11'29.17" | E113°59'08.86" |
| 7              | N22°09'45.65" | E113°54'57.94" |
| 8              | N22°09'45.53" | E113°54'57.90" |
| 9              | N22°09'46.23" | E113°54'54.70" |
| 10R            | N22°11'29.18" | E113°59'08.91" |

#### Notes:

Table 5.2 Re-tagged Natural Corals after Typhoon Manghkut at Indirect Impact Site near SKC

| Coral # note i | GPS           | Coordinates    |  |  |  |  |
|----------------|---------------|----------------|--|--|--|--|
| 11R            | N22°11'29.14" | E113°59'08.92" |  |  |  |  |
| 12R            | N22°11'29.12" | E113°59'09.01" |  |  |  |  |
| 13R            | N22°11'29.11" | E113°59'09.07" |  |  |  |  |
| 14R            | N22°11'29.13" | E113°59'09.12" |  |  |  |  |
| 15R            | N22°11'29.10" | E113°59'09.18" |  |  |  |  |
| 16R            | N22°11'29.07" | E113°59'09.23" |  |  |  |  |
| 17R            | N22°11'29.17" | E113°59'08.86" |  |  |  |  |
| 18R            | N22°11'29.14" | E113°59'08.94" |  |  |  |  |
| 19R            | N22°11'29.20" | E113°59'08.81" |  |  |  |  |
| 20R            | N22°11'29.18" | E113°59'08.91" |  |  |  |  |

#### Notes:

Table 5.3 GPS Coordinates of Recipient Site R3

| Site | GPS           | Coordinates |
|------|---------------|-------------|
| R3   | N22°11'43.69" | E113°28.99" |

# 5.3 Action and Limit Levels

5.3.1 Monitoring result was reviewed and compared against the below Action Level and Limit Level (AL/LL) as set with the below **Table 5.4** and **Table 5.5**.

i. The re-tagged corals were marked as #R.

i. The re-tagged corals were marked as #R.

Table 5.4 Action and Limit Levels for Construction Phase Coral Monitoring

| Parameter | Action Level                    | Limit Level                    |  |
|-----------|---------------------------------|--------------------------------|--|
|           | If during Impact Monitoring     | If during Impact Monitoring a  |  |
|           | a 15% increase in the           | 25% increase in the            |  |
|           | percentage of partial           | percentage of partial          |  |
|           | mortality on the corals         | mortality on the corals occurs |  |
|           | occurs at more than 20% of      | at more than 20% of the        |  |
| Mortality | the tagged indirect impact      | tagged indirect impact site    |  |
|           | site coral colonies that is not | coral colonies that is not     |  |
|           | recorded on the tagged          | recorded on the tagged corals  |  |
|           | corals at the control site,     | at the control site, then the  |  |
|           | then the Action Level is        | Limit Level is exceeded.       |  |
|           | exceeded.                       |                                |  |

Table 5.5 Action and Limit Levels for Post-Translocation Coral Monitoring

| Parameter            | Action Level  | Limit Level   |
|----------------------|---|---|
| Parameter  Mortality | If during Post-Translocation Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals in the | If during Post-Translocation Monitoring a 25% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals in the recipient |
|                      | recipient site, then the  Action Level is exceeded.   | site, then the Limit Level is exceeded.   |

#### 5.4 Monitoring Results and Observations

- 5.4.1 Ten (10) hard coral colonies were monitored at each site of Control and Indirect Impact sites as suggested in the Construction Phase Monitoring Plan. The general health conditions (size, mortality, bleaching and sediment) were recorded and summarized in **Table 5.7** and **Table 5.8**. Photos of each tagged coral colonies were taken during the monitoring activities and shown in **Appendix F.**
- 5.4.2 The 16<sup>th</sup> quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site was conducted on 29 December 2022 and the weather condition was summarized in **Table 5.6**.

Table 5.6 Weather Condition for the  $16^{\rm th}$  Quarterly Coral Monitoring during Construction Phase at both Indirect Impact Site and Control Site

| Date             | Condition   | Average Underwater<br>Visibility |
|------------------|---|----------------------------------|
| 29 December 2022 | <ul><li>Northeast wind force 5 to 6</li><li>Sunny</li></ul> | Less than 10 cm                  |

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 Keppel Seghers – Zhen Hua Joint Venture 18<sup>th</sup> Quarterly EM&A Report

Table 5.7 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Control Site of 16<sup>th</sup> Quarterly Coral Monitoring (29 December 2022) during 52<sup>nd</sup> to 54<sup>th</sup> Monthly Construction Phase Monitoring

| Coral # | Species                     | Size (cm) – Max.<br>Diameter | Condition | Mortality (%)                             |             | Bleaching (%)                             |             | Sediment (%)                              |             |
|---------|-----------------------------|------------------------------|-----------|---|-------------|---|-------------|---|-------------|
| Corur   |                             |                              |           | Baseline<br>(26 Jun 2018 & 3<br>Dec 2018) | 29 Dec 2022 | Baseline<br>(26 Jun 2018 & 3<br>Dec 2018) | 29 Dec 2022 | Baseline<br>(26 Jun 2018 & 3<br>Dec 2018) | 29 Dec 2022 |
| 1       | Goniopora<br>stutchburyi    | 25                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |
| 2R      | Goniopora<br>stutchburyi    | 10                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |
| 3       | Psammocora<br>superficialis | 18                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |
| 4       | Turbinaria peltata          | 13                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |
| 5R      | Goniopora<br>stutchburyi    | 18                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |
| 6       | Cyphastrea<br>serailia      | 43                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |
| 7R      | Coscinaraea sp.             | 15                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |
| 8       | Goniopora<br>stutchburyi    | 21                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |
| 9       | Goniopora<br>stutchburyi    | 11                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |
| 10R     | Goniopora<br>stutchburyi    | 20                           | Good      | 0   | 0           | 0   | 0           | 0   | 0           |

#### Notes:

i. The re-tagged corals were marked as ##R.

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 Keppel Seghers – Zhen Hua Joint Venture 18<sup>th</sup> Quarterly EM&A Report

Table 5.8 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Indirect Impact Site of 16<sup>th</sup> Quarterly Coral Monitoring (29 December 2022) during 52<sup>nd</sup> to 54<sup>th</sup> Monthly Construction Phase Monitoring

| Coral # | Species                     | Size (cm) – Max. | Condition | Mortality (%)             |             | Bleaching (%)             |             | Sediment (%)              |             |
|---------|-----------------------------|------------------|-----------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|
|         |                             | Diameter         |           | Baseline<br>(23 Nov 2018) | 29 Dec 2022 | Baseline<br>(23 Nov 2018) | 29 Dec 2022 | Baseline<br>(23 Nov 2018) | 29 Dec 2022 |
| 11R     | Cyphastrea serailia         | 48               | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 12R     | Favites chinensis           | 27               | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 13R     | Turbinaria peltata          | 21               | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 14R     | Favites chinensis           | 8                | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 15R     | Goniopora<br>stutchburyi    | 11               | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 16R     | Psammocora<br>superficialis | 27               | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 17R     | Favites chinensis           | 15               | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 18R     | Psammocora<br>superficialis | 39               | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 19R     | Psammocora<br>superficialis | 42               | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 20R     | Psammocora<br>superficialis | 29               | Good      | 0                         | 0           | 0                         | 0           | 0                         | 0           |

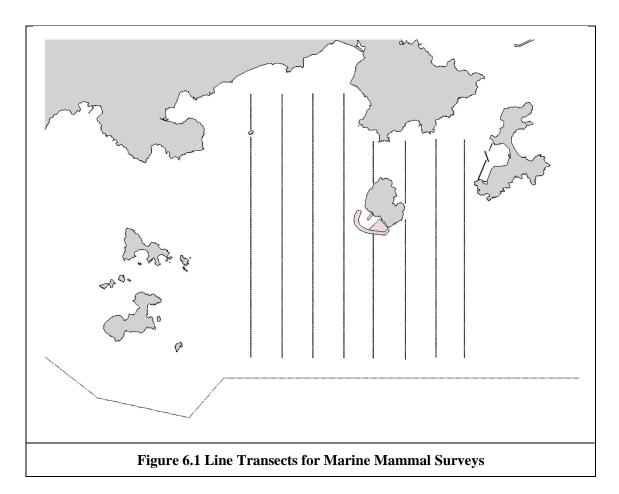
#### Notes:

i. The re-tagged corals were marked as ##R.

- 5.4.3 The re-tagging activity had been done at both Indirect Impact Site and Control Site in November 2018 and December 2018 respectively. A total of 20 tagged coral colonies (10 at control site and 10 at indirect impact site including the re-tagged coral colonies) were monitored. Similar to the baseline results performed in June, November and December 2018 and the results of the previous quarterly coral monitoring during construction phase, the health condition of all tagged and re-tagged coral colonies at Indirect Impact Site and Control site were good in general. No increased mortality was recorded during the survey in December 2022.
- 5.4.4 No sediment, bleaching or increased mortality in the general condition of coral colonies were observed during the 16<sup>th</sup> quarterly coral monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period.

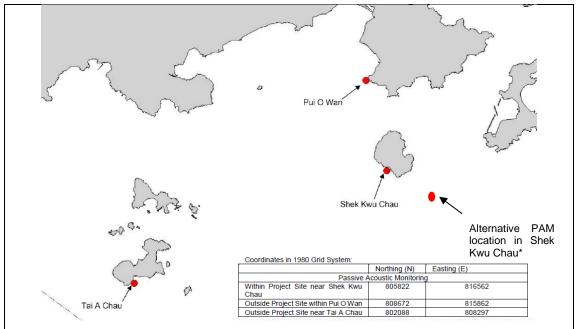
# 6. MARINE MAMMAL

- 6.1 Survey Methods
- 6.1.1 Vessel-based Line-transect Survey
- 6.1.1.1 For the vessel-based marine mammal surveys, the monitoring team adopted the standard line-transect method (Buckland et al. 2001) as same as that adopted during the EIA study and pre-construction phase monitoring to allow fair comparison of marine mammal monitoring results.
- 6.1.1.2 Eight transect lines are set at Southeast Lantau survey area, including Shek Kwu Chau, waters between Shek Kwu Chau and the Soko Islands, inshore waters of Lantau Island (e.g. Pui O Wan) as well as southwest corner of Cheung Chau as shown in **Figure 6.1** below:



- 6.1.1.3 In comparison to the baseline monitoring results, results from the analyzed construction phase monitoring data would allow the detection of any changes of their usage of habitat, in response to the scheduled construction works.
- 6.1.2 Passive Acoustic Monitoring (PAM)
- 6.1.2.1 The PAM aims to study the usage of an area by Finless Porpoise by using an array of automated static porpoise detectors (e.g. C-POD) which would be deployed at different locations to detect the unique ultra-high frequency sounds produced by

Finless Porpoise. During the construction period, the PAM survey will be conducted including placement of two passive porpoise detectors outside the Project Area as control site (i.e. within Pui O Wan and to the south of Tai A Chau) and one porpoise detector within the Project Area (i.e. near Shek Kwu Chau) as shown in **Figure 6.2** below.



Note\*: The alternative PAM device adjacent to the Project site was deployed from 5 Mar to 11 Apr 2019, which contained a full 37 days acoustic monitoring data set. After the confirmation of loss of the original PAM within the Project site, this data set was proposed to replace that of the original one, as consulted with AFCD accordingly.

Figure 6.2 Locations of Passive Acoustic Monitoring

6.1.2.2 These three detectors will be deployed on-site to carry out 24-hours monitoring for a period listed as **Table 6.1** below during the construction phase.

**Table 6.1 PAM Deployment Period** 

| Season      | Months                       | Deployment Period                |
|-------------|------------------------------|----------------------------------|
| Peak Season | December, January, February, | At least 30 days during the peak |
|             | March, April or May          | months of porpoise occurrence    |
|             |                              | in South Lantau waters           |

- 6.1.2.3 The automated static porpoise detectors shall detect the presence and number of finless porpoise and Chinese White Dolphins respectively over the deployment period, with the false signal such as boat sonar and sediment transport noise distinguished and filtered out. The detectors shall be deployed and retrieved by professional dive team on the seabed of the three selected location shown in **Figure 6.2**. During each deployment, the C-POD unit serial numbers as well as the time and date of deployments shall be recorded. Information including the GPS positions and water depth at each of the deployment locations shall also be obtained.
- 6.1.2.4 The diel patterns (i.e. 24-hour activity pattern) of finless porpoise occurrence among the three sites at Shek Kwu Chau, Tai A Chau and Pui O Wan shall be analyzed. Peaks and troughs of finless porpoise occurrence per hour of day would be identified and compared with the results obtained from pre-construction monitoring.

#### 6.1.3 Land-based Theodolite Tracking

6.1.3.1 The Land-based Theodolite Tracking study would use the same station as in the AFCD monitoring study(same as the baseline monitoring location), which is situated at the southwest side of Shek Kwu Chau (GPS position: 22°11.47' N and 113°59.33' E) as shown in below **Figure 6.3**. The station was selected based on its height above sea level (at least 20 metres), close proximity to shore, and relatively unobstructed views of the entire Project Area to the southwest of Shek Kwu Chau. The height of the Shek Kwu Chau Station established by the HKCRP team is 74.6 m high at mean low water, and only a few hundred metres to the IWMF reclamation site, which is ideal for the purpose for the present behavioural and movement monitoring of finless porpoises as well during construction phase considering there as an un-obstructed vantage point at a height above the Project Site.

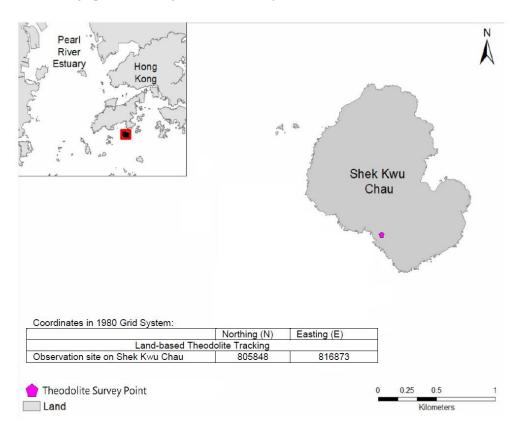


Figure 6.3 Locations of Land-based Theodolite Tracking

6.1.3.2 During the construction phase, Land-based Theodolite Tracking will be carried out for approximately six hours of tracking for each day of field work for a period listed as **Table 6.2** below, preferably at the initial stage of the construction period (i.e. December 2018 to May 2019).

Table 6.2 Land-based Theodolite Tracking Survey Period

| Season      | Months                       | Survey Period                   |
|-------------|------------------------------|---------------------------------|
| Peak Season | December, January, February, | 30 days during the peak months  |
|             | March, April or May          | of porpoise occurrence in South |
|             |                              | Lantau waters                   |

6.1.3.3 The monitoring period for land-based theodolite tracking will be proposed to be overlapped with the PAM. The monitoring team consists of one experienced theodolite operator and at least two field observers for assistance. To conduct

theodolite tracking, the observers will search systematically for Finless Porpoise using the unaided eye and 7 x 50 handheld binoculars on each survey day throughout the study area. When an individual or group of porpoises is located, a theodolite tracking session will be initiated and focal follow methods will be used to track the porpoise(s). Behavioural state data (i.e. resting, milling, travelling, feeding and socializing) shall also be recorded every 5 minutes for the focal individual or group. Positions of porpoises and boats shall be measured using a digital theodolite connected to a laptop computer. This tracking survey will be conducted during the peak season between December 2018 and May 2019 for 30 surveys spanning across 15-16 weeks during the peak season to provide good temporal coverage during the initial stage of the construction period.

- 6.2 Specific Mitigation Measures
- 6.2.1 Monitored exclusion zones
- 6.2.1.1 During the installation/re-installation/relocation process of floating type silt curtains, in order to avoid the accidental entrance and entrapment of marine mammals within the silt curtains, a monitored exclusion zone of 250 m radius from silt curtain should be implemented and monitored by competent Marine Mammal Observers (MMOs). Marine Mammal Exclusion Zone (MMEZ) would also be implemented for precautionary purpose for DCM works.
- 6.2.2 Marine mammal watching plan
- 6.2.2.1 Upon the completion of silt curtain installation/re-installation/relocation, marine mammal watching plan would be implemented to observe the presence of any marine mammal around the localized silt curtain or being trapped by the localized silt curtain.
- 6.3 Results and Observations
- 6.3.1 Vessel-based Line-transect Survey
- 6.3.1.1 Four monthly surveys were conducted during the reporting period. As this covered both the off-peak season (June November) and designated peak season (December May), one survey was conducted in October and November 2022 and two surveys were conducted in December 2022 respectively. A total on effort (transects only) survey length of 159.3 km was completed, 132.7 km at Beaufort Sea State 2 or better (**Table 6.3**). One (1) on-effort finless porpoise sighting and one (1) one opportunistic finless porpoise sighting were recorded and confirmed by qualified ecologist (**Table 6.4**, **Figure 6.4**).

| Table 6.5 Summary of Vessel-based Ellie-transect Survey Effort |       |          |             |        |              |                  |  |  |  |
|--|-------|----------|-------------|--------|--------------|------------------|--|--|--|
| Date   | Area* | Beaufort | Effort (km) | Season | Vessel       | Effort<br>Type** |  |  |  |
| 20 Octobor   |       | 1        | 9.8         | AUTUMN | SEAMAR       |                  |  |  |  |
| 28 October 2022  | SEL   | 2        | 23.7        |        | SEAWAK<br>HK | P                |  |  |  |
| 2022   |       | 3        | 6.4         |        | пк           |                  |  |  |  |
| 10 November  | SEL   | 1        | 19.7        | AUTUMN | SEAMAR       | P                |  |  |  |
| 2022   | SEL   | 2        | 19.8        | AUTUMN | HK           | Г                |  |  |  |
|  | SEL   | 1        | 1.1         |        |              |                  |  |  |  |
| 5 Dagardan   |       | 2        | 18.5        | WINTER | SEAMAR<br>HK |                  |  |  |  |
| 5 December   |       | 3        | 11.9        |        |              | P                |  |  |  |
| 2022   |       | 4        | 7.9         |        |              |                  |  |  |  |
|  |       | 5        | 0.3         |        |              |                  |  |  |  |
| 0 D 1  | SEL   | 1        | 13.6        |        | CEAMAD       |                  |  |  |  |
| 8 December<br>2022   |       | 2        | 26.5        | WINTER | SEAMAR<br>HK | P                |  |  |  |
|  |       | 3        | 0.1         |        | пк           |                  |  |  |  |

Table 6.3 Summary of Vessel-based Line-transect Survey Effort

Table 6.4 Summary of Sightings Recorded during October 2022 to December 2022 of Vessel-based Line-transect Survey Effort

| Date              | Species             | Sighting<br>No. | Time  | Group<br>Size | PSD | Behaviour  | Lat.     | Long.    | Area | Effort | Season |
|-------------------|---------------------|-----------------|-------|---------------|-----|------------|----------|----------|------|--------|--------|
| 10<br>Nov<br>2022 | Finless<br>Porpoise | 130             | 10:31 | 1             | N/A | Unknow     | 22.16348 | 113.9452 | SEL  | On     | Autumn |
| 10<br>Nov<br>2022 | Finless<br>Porpoise | 131             | 11:13 | 2             | 131 | Travelling | 22.18204 | 113.9541 | SEL  | Орр    | Autumn |

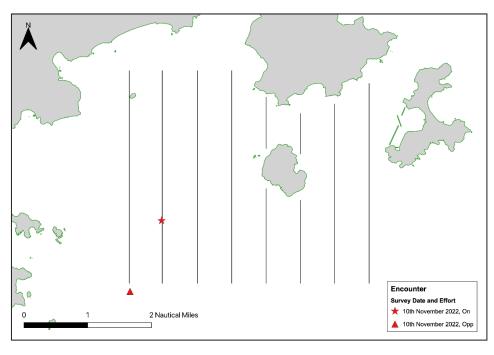


Figure 6.4 Location of sightings recorded during October to December 2022 Vesselbased Line-transect Survey

<sup>\*</sup> As shown in **Figure. 6.1** 

<sup>\*\*</sup> P (from AFCD) denotes the ON EFFORT survey on the transect line, not the adjoining passages

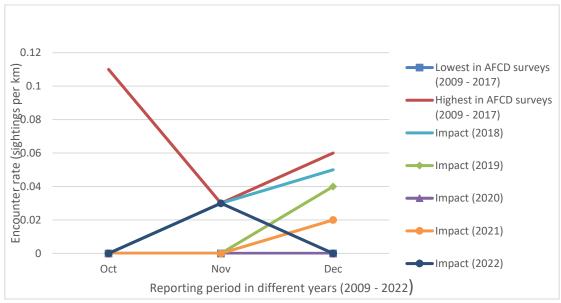


Figure 6.5 Plot of encounter rate during October to December in 2009 – 2022 from different surveys

- 6.3.1.2 A review of the long term AFCD marine mammal monitoring programme, the EIA and the pre-construction baseline monitoring report for this project was conducted. Both the EIA and the pre-construction baseline monitoring were conducted during the peak porpoise months December 2008 to May 2009 and February to April 2018, respectively. The AFCD long term monitoring data and impact monitoring in October and December 2019, 2020, 2021 and 2022 should be compared directly to Impact Survey results of the reporting periods.
- 6.3.1.3 A review of the Beaufort Sea state survey conditions between 2009 and 2017 (only data available from AFCD at time of writing; (AFCD 2018; 2017; 2016; 2015; 2014; 2013; 2012; 2011; 2010)) show that the survey condition in October, November and December 2022 were better than the average of previous AFCD long-term monitoring surveys.
- 6.3.1.4 A review of all the porpoise sightings in the survey area for October to December between 2009 and 2017 show that three (3) of the seven (7) years surveyed in October record no porpoise sightings while there are fluctuations between the number of sightings usually recorded in November and December. Given the similar survey conditions and the encounter rate recorded for porpoise in the project area during the reporting period, the encounter rate for October to December 2022 were between 0.00 sighting km<sup>-1</sup> and 0.03sighting km<sup>-1</sup> (see Figure 6.5), it is noted that the encounter rates of impact survey in October 2022 as 0 sighting rate was not unusual to other years. The encounter rate of impact survey in November 2022 was within the upper bounds of the encounter rates noted for the long term marine mammal monitoring programme, prior to construction commencement. The 0 encounter rate of impact survey in December 2022 was within the bounds of encounter rates noted for the long term marine mammal monitoring programme, prior to construction commencement.
- 6.3.1.5 Data and records of the implemented mitigation measures, including construction vessel routing and speed control, marine mammal watching plan and avoidance of noisy work during the peak season, are collected from the Contractor and now under detail review. As surveys continue for this project, data shall be constantly reevaluated across survey months to discern trends and impacts, if any.

- 6.3.1.6 Photo records of the line-transect survey during the reporting period are presented in **Appendix G**.
- 6.3.2 PAM and Land-based Theodolite Tracking
- 6.3.2.1 30 days of PAM surveys were started at 1 May 2019 and completed until the end of May 2019. Multiple PAM systems were deployed at three sites. The PAM system located at the IWMF was lost, however, an alternative data set has been identified. The PAM systems at the two control sites Tai A Chau and Pui O were recovered on 3 August 2019. A summary of marine mammal detections shows that porpoise were recorded every day of deployment at each site, but at varying frequencies. The detailed theodolite result was presented in 17th Monthly EM&A report (November 2019) while detailed PAM result was presented in 18th Monthly EM&A report (December 2019).
- For the baseline study, the DPM for each site was 11,160 (Shek Kwu Chau), 16,089 6.3.2.2 (Tai A Chau) and 3645 (Pui O Wan), totalling 30,894 DPM across all three sites, compared to DPMs of 4740 (Shek Kwu Chau), 7725 (Tai A Chau) and 23,986 (Pui O Wan), totalling 36,451 DPM, for the impact phase study. As the impact phase study was longer than the baseline study, it is not appropriate to directly compare total counts of DPM, however, the DPM rate (the average number of detections per day) for each site can be more directly compared. During the baseline study, Shek Kwu Chau averaged 338.2 DPM per day compared to 124.8 DPM per day, during the impact phase study. This showed a decrease in the daily average of porpoise detection at Shek Kwu Chau. During the baseline study, Tai A Chau averaged 487.6 DPM per day compared to 179.7 DPM per day, during the impact phase study. This showed a decrease in the daily average of porpoise detection at Tai A Chau. During the baseline study, Pui O Wan averaged 98.5 DPM per day compared to 557.8 DPM per day, during the impact phase study. This showed a significant increase in the daily average of porpoise detections at Pui O Wan (**Table 6.6**).
- 6.3.2.3 Overall, the PAM study showed that porpoise continue to consistently utilise the Shek Kwu Chau habitat immediately adjacent to the IWMF construction activities, although to a lesser degree than that prior to construction activities. In addition, the Pui O Wan site, which is 2.5 km away from the IWMF construction area, was also consistently utilised during the impact phase PAM study. A continued assessment of fine scale habitat use, particularly through PAM which yields large quantities of data, would allow a more comprehensive assessment of the EIA predictions.

Table 6.6 Summary Statistic Comparison of Baseline (2018) and Impact Phase (2019)
Passive Acoustic Monitoring

|               |                     |            | Baseline data |       |                  |              |             |                            |             |
|---------------|---------------------|------------|---------------|-------|------------------|--------------|-------------|----------------------------|-------------|
| Site          | Unit ID             | Start      | End           | Days  | DPD<br>%<br>Days | Total<br>DPM | DPM<br>/Day | % False<br>Positive<br>DPM | Time Lost % |
| Shek Kwu Chau | 2891                | 2018/02/09 | 2018/03/13    | 32.11 | 100              | 11160        | 338.2       | 0.0                        | 1.00        |
| Tai A Chau    | 2868                | 2018/02/09 | 2018/03/13    | 32.5  | 100              | 16089        | 487.6       | 1.0                        | 2.00        |
| Pui O Wan     | 2891                | 2018/03/13 | 2018/04/17    | 34.85 | 97.3             | 3645         | 98.5        | 2.0                        | 31.87       |
| Total         |                     |            |               | 99.01 |                  | 30894        | 312.0       |                            |             |
|               |                     |            | Impact Phase  |       |                  |              |             |                            |             |
| Site          | Unit ID             | Start      | End           | Days  | DPD<br>%<br>Days | Total<br>DPM | DPM<br>/Day | % False<br>Positive<br>DPM | Time Lost % |
| Shek Kwu Chau | IWMF_BU_20190305_01 | 2019/03/05 | 2019/04/11    | 37.91 | 100              | 4740         | 124.8       | 0.0                        | 0           |
| Tai A Chau    | IWMF_20190411_02    | 2019/04/11 | 2019/05/23    | 41.94 | 100              | 7725         | 179.7       | 0.0                        | 0           |
| Pui O Wan     | IWMF_20190411_01    | 2019/04/11 | 2019/05/23    | 42.02 | 100              | 23986        | 557.8       | 0.0                        | 0           |
| Total         |                     |            |               | 121.9 |                  | 36451        | 299.1       |                            |             |

- 6.3.2.4 Theodolite surveys were completed in May 2019. In total, 34 days of theodolite tracking were completed between February May 2019, comprising 167 hours and 49 minutes of observation. No Chinese white dolphin was observed and only one finless was recorded. The finless porpoise encounter rate was calculated as 0.006 finless porpoise per hour, in all weather conditions.
- 6.3.2.5 A total of 2620 vessels of ten different types were observed and tracked within or in the proximity of the IWMF construction site. These comprised fishing boats (236), speed boats (29), container boats (155), government boats (22), high speed ferries (53), others (13) and IWMF-Related construction platforms (974), tug boats(240), transportation boats (363), construction boats (531) and approximately 8 buoys were present marking the site boundary. The detailed Land-based Theodolite Tracking Report was presented in 5<sup>th</sup> Quarterly EM&A report and 17<sup>th</sup> Monthly EM&A report.
- 6.3.2.6 The baseline theodolite tracking was conducted immediately prior to and during the site preparation activities of the site. The baseline data records a decrease in porpoise sightings as site preparation activities commenced and notes that the decrease was most likely due to the onset of site preparation activities. The impact theodolite tracking conducted for this study records a marked increase in the number of Project related vessels and platforms and, in agreement with baseline conclusions, shows a concomitant decrease in finless porpoise sightings.

#### 7. WHITE-BELLIED SEA EAGLE

#### 7.1 WBSE Monitoring Parameters

- 7.1.1 The objective of the construction phase monitoring should be to verify the utilisation of the area by WBSE, their responses to construction disturbance, as well as the effectiveness of the proposed mitigation measures. Throughout the construction phase, field surveys should be conducted twice per month during their core breeding season (from December to May), and once per month outside their core breeding season (from June to November). The monitoring frequency should be increased to weekly during the incubation period of each year. In order to confirm their foraging ground near the construction site, it is necessary to conduct daily monitoring during the first week of nestling period in each year.
- 7.1.2 Since the location of the WBSE nest was located at the southwest of SKC within the hillside shrubland, it is impossible to observe the eggs during incubation period. Therefore, monitoring with increased frequency during incubation period could not be carried out. Daily monitoring will be carried out once any chick is recorded during the monitoring day.

#### 7.2 Results and Observations

7.2.1 Three monitoring surveys for monthly construction phase were conducted during the reporting period, all three monitoring surveys were conducted outside their core breeding season (between June to November). Since there is no landing point along the western part of SKC, boat survey was used for the monitoring survey. In order to increase the chance of finding the WBSEs, monitoring survey was carried out either early in the morning or later in the afternoon. The weather conditions of monitoring survey were shown in **Table 7.1**.

**Table 7.1 Weather Conditions during the WBSE Monitoring (Monthly)** 

| Date             | Condition   | Temperature ( $^{\circ}$ C) |
|------------------|---|-----------------------------|
| 27 October 2022  | <ul><li>Northeast force 4 to 5</li><li>Sunny</li></ul>      | 30                          |
| 24 November 2022 | - East force 4 to 5<br>- Sunny                              | 26                          |
| 15 December 2022 | <ul><li>North wind force 5</li><li>Sunny</li></ul>          | 21                          |
| 29 December 2022 | <ul><li>Northeast wind force 5 to 6</li><li>Sunny</li></ul> | 19                          |

- 7.2.2 Two adult WBSEs were recorded near Shek Kwu Chau area in the October, November and December 2022. No abnormal behaviors of the adults were recorded during the October, November and December 2022 construction phase monitoring. All marine works during the monitoring period did not show any impact to the WBSE.
- 7.2.3 Incubation activity was recorded during the monitoring on 29 December 2022.
- 7.2.4 The juvenile recorded in 2022 has not been observed since monitoring event in September 2022, it is suggested that the juvenile left the nest at SKC and nesting in other area outside our monitoring boundary.
- 7.2.5 No disturbances from anthropogenic activities on the island were recorded during the monitoring survey. No invasion of other fauna species was recorded as well.



Figure 7.1 Location of WBSE Nest on SKC

- 7.2.6 No invasion of other fauna species was recorded and no sign of using the construction site as a foraging ground was recorded as well.
- 7.2.7 During the reporting period, no abnormal behaviour of the recorded adults and juvenile was shown. All marine works during the forty-ninth to fifty-first months construction period did not show any influence on the WBSE.
- 7.2.8 Photo records of the WBSE taken during the reporting period are presented in **Appendix H**.

# 8. SUMMARY OF MONITORING EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

- 8.1 No exceedance of the Action and Limit Levels of the regular construction noise, coral and WBSE monitoring was recorded during the reporting period.
- 8.2 During the general water quality monitoring period for October to December 2022, forty (40) of the general water quality monitoring results of SS had exceeded Action Level during the reporting period, while fifty (50) exceedances of the Limit Level of SS were also recorded. Investigations were carried out immediately for each of the exceedance cases during the reporting period.
- 8.3 No notification of summons and prosecution was received in the reporting period.
- 8.4 Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix I**.

#### 9. EM&A SITE INSPECTION

- 9.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. Site inspections were carried out at the Site Portions 1, 1A, 1B during the reporting period. Portions 1, 1A & 1B were the sites near SKC within the Site boundary.
- 9.2 Joint site inspection with IEC was carried out on a monthly basis.
- 9.3 Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized below:
  - Prevention actions for oil/chemical spillage were not carried out properly
  - Chemical was not stored properly at designated storage place
  - Chemical waste was not stored in chemical waste cabinet and the cabinet was not locked up
  - Non-road Mobile Machinery (NRMM) label was not displayed properly and faded NRMM label should be replaced
  - Stagnant water inside the drip tray of generator should be cleaned
  - EP, updated CNP and discharge license was not presented at the entrance of the site
  - Mitigation measure for preventing site runoff was not properly implemented
  - Geotextile was not properly deployed along the seawall
- 9.4 The Contractor had rectified all of the observations identified during environmental site inspections in the reporting period.
- 9.5 According to the EIA Study Report, Environmental Permit, contract documents and Updated EM&A Manual, the mitigation measures detailed in the documents, except the silt curtain system, are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix B**.

#### 10. CONCLUSION AND RECOMMENDATIONS

- 10.1 This 18th Quarterly Environmental Monitoring and Audit (EM&A) Report summarizes the EM&A works undertaken during the period from 1 October 2022 to 31 December 2022 in accordance with the Updated EM&A Manual and the requirement under EP-429/2012/A and FEP-01/429/2012/A.
- 10.2 Construction noise, water quality, construction waste, coral, marine mammal and White-Bellied Sea Eagle (WBSE) monitoring were carried out in the reporting period. No project-related exceedance of the Action and Limit Levels was recorded during the reporting period.
- 10.3 Weekly environmental site inspections were conducted during the reporting period. Environmental deficiencies were observed during site inspection and were rectified.
- 10.4 According to the environmental site inspections performed in the reporting period, the Contractor was reminded to pay attention on on-site housekeeping, the proper storage of the chemicals, chemical waste and construction waste, dust control measure for exposed earth surface and stockpile of dusty material and the proper NRMM labelling.
- 10.5 No notification of summons or prosecution was received since commencement of the Contract.
- 10.6 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

| Contract No. EP/SP/66<br>Integrated Waste Mana | /12<br>gement Facilities, Phase 1 | Keppel Seghers – Zhen Hua Joint Venture |
|--|-----------------------------------|---|
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
| Appendix A                                     | Master Programme                  |   |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |





| vity ID                            | Activity Name   | Original<br>Duration | Remaining | Activity % Current Start             | Current Finish         | Late Start             | Late Finish            | Total Float M60 Remarks |           | 2022 2023   |
|------------------------------------|---|----------------------|-----------|--------------------------------------|------------------------|------------------------|------------------------|-------------------------|-----------|---|
|                                    |   | Duration             | Duration  | Complete                             |                        |                        |                        |                         | Nov<br>60 | Dec         Jan         Feb           61         62         63  |
| Programme for Design a             | nd Construction Works WP6F-M60  | 3026                 | 1192      | 22-Nov-17 A                          | 05-Mar-26              | 02-Oct-22              | 05-Jan-26              | -59                     |           |   |
|                                    |   | 3026                 | 1003      | 22-Nov-17 A                          | 05-Mar-26              | 11-Nov-22              | 05-Jan-26              | -59                     |           |   |
| Contractual Key Dates              |   | 2843                 | 403       | 22-Nov-17 A                          | 03-Sep-25              | 11-Nov-22              | 03-Sep-25              | 0                       |           |   |
| Design and Construction            | Phase   | 2787                 | 347       |                                      |                        | 11-Nov-22              | 09-Jul-25              | 0                       |           |   |
| <b>01-1000</b>                     | Contract Award/Date of Acceptance of Tender   | 0                    | 0         |                                      |                        | 11-Nov-22              | 00 001 20              |                         |           |   |
| <b>O1-1010</b>                     | Date of Commencement of the Design and the Works  | 0                    | 0         | 100% 15-Dec-17 A                     |                        | 11-Nov-22              |                        |                         |           |   |
| 01-1015(3)(M12)                    | Original Substantial Completion of the Works  | 0                    | 0         | 0%                                   | 27-Jul-24*             |                        | 27-Jul-24              | 0                       |           |   |
| = 01-1020                          | Extended Substantial Completion of The Works  | 0                    | 0         | 0%                                   | 09-Jul-25*             |                        | 09-Jul-25              | 0                       |           | !   |
| Extension of Time Grante           |   | 347                  | 347       |                                      |                        | 27-Jul-24              |                        |                         |           |   |
| 01-1015-1(3)(M12)                  | Extension of time granted (Claim No.1 to No.72) *Claim No.9 excluded                              | 347                  | 347       |                                      | 09-Jul-25              |                        | 09-Jul-25              | 0                       |           |   |
| Operation Phase                    |   | 56                   | 56        |                                      |                        | 10-Jul-25              | 03-Sep-25              |                         |           |   |
| <b>a</b> 01-1030                   | Commencement of Operation   | 0                    | 0         | 0% 10-Jul-25                         |                        | 10-Jul-25              |                        | 0                       |           |   |
| <b>a</b> 01-1230                   | Issue Certificate of Completion of the Works (56 days after Substantial Completion)               | 0                    | 0         | 0%                                   | 03-Sep-25*             |                        | 03-Sep-25              | 0                       |           | ļ   |
| Planned Completion D               |   | 887                  | 887       | 30-Sep-23                            | 05-Mar-26              | 30-Sep-23              | 05-Jan-26              | -59                     |           |   |
| 01-1030(5a)                        | Grid Connection Agreement (GCA)   | 0                    | 0         |                                      | 31-Oct-23*             |                        | 30-Oct-23              | 0                       |           |   |
| 01-1040                            | Incoming Power Energization to IWMF Substation  | 0                    | 0         | 0%                                   | 23-Jan-25              |                        | 09-Jul-25              | 168                     |           |   |
| o1-1050                            | Export Power to Grid  | 0                    | 0         | 0%                                   | 31-Oct-24*             |                        | 31-Oct-24              | 0                       |           |   |
| o1-1060                            | Issuance of FS Certificate  | 0                    |           | 0%                                   | 05-Jan-25              |                        | 08-Jan-25              | 3                       |           | i   |
| ■ 01-1000<br>■ 01-1070             | Completion of Civil Provision for Transmission  | 0                    | 0         | 0%                                   | 30-Sep-23*             |                        | 30-Sep-23              |                         |           |   |
|                                    | ·   | 0                    | 0         |                                      | 30-3ep-23              | 00 lon 25              | 30-3ep-23              | -56                     |           |   |
| 01-1080                            | Commencement of C1.3.4.11 System Commissioning Test   | 0                    | 0         | 0% 06-Mar-25                         | 21 Mar OF              | 09-Jan-25              | 21 Jan 25              | -                       |           |   |
| 01-1090                            | Completion of C1.3.4.11 System Commission Test  | 0                    | 0         |                                      | 31-Mar-25              |                        | 31-Jan-25              | -59<br>-59              |           |   |
| 01-1100                            | Physical Completion of 90 Days Plant Commissioning Test Works                                     | 0                    | 0         | 0%                                   | 16-Aug-25              |                        | 18-Jun-25              |                         |           |   |
| 01-1110(3)(M15)                    | Planned Substantial Completion of the Works   | 0                    | 0         | 0%                                   | 06-Sep-25              |                        | 09-Jul-25              | -59                     |           |   |
| 01-1110-1(5a)                      | Completion of 180 Days for Installation, T&C of CCTV System and Onshore Power System at Portion 2 | 0                    | 0         | 0%                                   | 05-Mar-26*             |                        | 05-Jan-26              | -59                     |           |   |
| Dates of Site Pocession            | 18  | 2764                 | 764       |                                      |                        |                        | 10-Jul-25              | 0                       |           |   |
| <u> </u>                           | Possession of Portion 1   | 0                    | 0         |                                      | 15-Dec-17 A            |                        | 11-Nov-22              |                         |           |   |
| o1-1130                            | Possession of Portion 1A  | 0                    | 0         | 100%                                 | 15-Dec-17 A            |                        | 11-Nov-22              |                         |           |   |
| <u> </u>                           | Possession of Portion 1B  | 0                    | 0         | 100%                                 | 15-Dec-17 A            |                        | 11-Nov-22              |                         |           |   |
| o1-1150                            | Possession of Portion 2   | 0                    | 0         | 0% 10-Jul-25                         |                        | 10-Jul-25              |                        | 0                       |           |   |
| <b>01-1160</b>                     | Possession of Portion 3   | 0                    | 0         | 0%                                   | 06-Jun-23*             |                        | 06-Jun-23              | 0                       |           |   |
| <b>01-1170</b>                     | Possession of Portion 4   | 0                    | 0         | 0%                                   | 06-Jun-23*             |                        | 06-Jun-23              | 0                       |           |   |
| <b>a</b> 01-1180                   | Possession of Portion 5   | 0                    | 0         | 0%                                   | 06-Jun-23*             |                        | 06-Jun-23              | 0                       |           |   |
| <b>a</b> 01-1190                   | Possession of Portion 6   | 0                    | 0         | 0% 20-Oct-24*                        |                        | 09-Jan-25              |                        | 81                      |           |   |
| <b>o</b> 1-1200                    | Possession of Portion 7   | 0                    | 0         | 100%                                 | 05-Jan-18 A            |                        | 09-Jul-25              |                         |           |   |
| o1-1210                            | Possession of Portion 7A  | 0                    | 0         | 100%                                 | 07-Dec-18 A            |                        | 09-Jul-25              |                         |           |   |
| 01-1210(5a)                        | Possession of Portion 8   | 0                    | 0         | 100% 29-Apr-20 A                     |                        | 10-Jul-25              |                        |                         |           |   |
| 01-1210-1(M55)                     | Possession of Portion 9   | 0                    | 0         | 100% 10-Jun-22 A                     |                        | 10-Jul-25              |                        |                         |           | !   |
| Contract Preliminarie              |   | 56                   | 40        | 14-Jun-22 A                          |                        | 02-Dec-24              | 10-Jan-25              | 733                     |           |   |
|                                    |   | 56                   | 40        |                                      |                        | 02-Dec-24              | 10-Jan-25              | 733                     |           |   |
| Employer's Accommod                |   | 56                   |           |                                      |                        | 02-Dec-24<br>02-Dec-24 |                        |                         |           | OR Jan CO. Establishment of Employers On  |
| <u> </u>                           | Establishment of Employer's On Island Temporary Accommodation                                     |                      | 40        |                                      |                        |                        |                        | 733                     |           | 08-Jan-23, Establishment of Employer's On   |
| Licence/Permit Application         |   | 2120                 | 916       | 07-Mar-19 A                          | 02-Jun-25              | 25-Oct-22              | 09-Jul-25              | 37                      |           |   |
| License/Permit for Con             | struction   | 2120                 | 916       | 07-Mar-19 A                          | 02-Jun-25              | 23-Dec-22              | 09-Jul-25              | 37                      |           | į   |
| 03-1360(2)                         | CNP for 24Hrs   | 2120                 | 916       | 56.79% 07-Mar-19 A                   | 02-Jun-25              | 06-Jan-23              | 09-Jul-25              | 37                      |           |   |
| 03-1370_1(M34)                     | Landscape and Visual Plan   | 180                  | 180       | 0% 30-Nov-22                         | 28-May-23              | 23-Dec-22              | 20-Jun-23              | 23                      | 30-Nov-22 |   |
| Fire Services Installation         | ons (FSI) Certificatie  | 0                    | 0         | 29-Dec-22                            | 29-Dec-22              | 29-Dec-22              | 29-Dec-22              | 0                       |           |   |
| Fire Services Installations        | S Certificate Inspection  | 0                    | 0         | 29-Dec-22                            | 29-Dec-22              | 29-Dec-22              | 29-Dec-22              | 0                       |           | ļ   |
| 03-1555-1(5a)                      | Approval of General Building Plans and FSI Provision Design Submission                            | 0                    | 0         | 0%                                   | 29-Dec-22              |                        | 29-Dec-22              | 0                       |           | ◆ Approval of General Building Plans and FSI Provision  |
| Air Pollution Control (S           | Specified Processes) License  | 60                   | 60        | 30-Dec-22                            | 27-Feb-23              | 30-Dec-22              | 27-Feb-23              | 0                       |           | !   |
| 03-1740(3)                         | Document preparation for SP License Application (upon consent of relevent DDA designs)            | 60                   | 60        | 0% 30-Dec-22                         | 27-Feb-23              | 30-Dec-22              | 27-Feb-23              | 0                       |           | 30-Dec-22   |
| Boilers and Pressure V             | essels License  | 302                  | 60        | 29-Mar-22 A                          | 28-Jan-23              | 25-Oct-22              | 20-Jul-23              | 173                     |           |   |
| <b>3-1860(3)</b>                   | Employment of Registered Examiner   | 90                   | 30        | 66.67% 31-May-22                     | 29-Dec-22              | 21-Jun-23              | 20-Jul-23              | 203                     |           | 29-Dec-22, Employment of Registered Examiner, Empl  |
| 03-1870(3)                         | Prepare boiler fabrication inspection plan  | 60                   | 30        | 50% 31-May-22                        | 29-Dec-22              | 21-Jun-23              | 20-Jul-23              | 203                     |           | 29-Dec-22, Prepare boiler fabrication inspection plan, F  |
| 03-1890(3)                         | Completion of Boiler off-site fabrication   | 180                  | 30        | 83.33% 29-Mar-22 A                   | 29-Dec-22              | 25-Oct-22              | 23-Nov-22              | -36                     |           | Completion of Boiler off-site fabrication, 29-Dec-22, 29-   |
| 03-1900(3)                         | Completion of Boiler off-site inspection before delivery  | 60                   | 60        | 0% 30-Nov-22                         | 28-Jan-23              | 25-Oct-22              | 23-Dec-22              |                         | 30-Nov-22 | 28-Jan-23, Completion of  |
| General Submission                 |   | 1108                 | 60        | 31-May-22                            |                        | 01-Nov-22              |                        |                         |           |   |
| Contractor's Plans Sub             |   | 1108                 | 60        |                                      |                        | 01-Nov-22              |                        | -29                     |           | ····  |
|                                    | iii issivii and Appi uvai   | 1108                 | 60        |                                      |                        |                        |                        |                         |           | ļ   |
| BEAM Plus Assessment  04-1500-1(1) | Provisional Assessment  | 1108                 |           | 94.58% 31-May-22                     |                        | 01-Nov-22<br>01-Nov-22 |                        |                         |           | Provisional Assessmen   |
|                                    |   |                      | 227       |                                      |                        |                        |                        |                         |           | Frovisional Assessmen   |
| Design Submissions                 |   | 1660                 |           |                                      |                        | 03-Nov-22              |                        |                         |           |   |
|                                    |   | 517                  | 30        |                                      |                        | 30-Nov-22              |                        | 179                     |           |   |
| General Building Plan              |   |                      |           |                                      | 00 11 00               | 00 Dec 00              | 29-Dec-22              | 30                      |           | 30-Nov-22, Process Building & Wastewater Treatment Plant, Process Building & Wa   |
| 04-1600(M42)                       | Process Building & Wastewater Treatment Plant   | 135                  | 0         | 100% 03-Jun-21 A                     | 30-Nov-22              |                        |                        |                         |           |   |
|                                    | Process Building & Wastewater Treatment Plant Turbin Hall Building                                | 135<br>135           | 0         | 100% 03-Jun-21 A<br>100% 03-Mar-21 A |                        | 29-Dec-22<br>29-Dec-22 |                        |                         |           | 30-Nov-22, Turbin Hall Building, Turbin Hall Building, 30-Nov-22  |
| 04-1600(M42)                       | •   |                      | 0         |                                      | 30-Nov-22              |                        | 29-Dec-22              | 30                      |           | +   |
| 04-1600(M42)<br>04-1610(M42)       | Turbin Hall Building  | 135                  | 0 0       | 100% 03-Mar-21 A                     | 30-Nov-22<br>30-Nov-22 | 29-Dec-22              | 29-Dec-22<br>29-Dec-22 | 30<br>30                |           | 30-Nov-22, Turbin Hall Building, Turbin Hall Building, 30-Nov-22<br>30-Nov-22, Compressor & CCCW Building, Compressor & CCCW Building, 30-Nov-2<br>30-Nov-22, Chimney, Chimney, 30-Nov-22 |

# **3-Month Rolling Programme (November 2022)**

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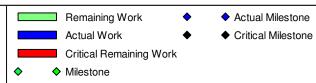




| KEPPEL SEGHERS - ZHEN HUA JOB |  |                      |                       | 1 4 2 2 1 2 2 2                      | 10             | 1                      |             |                         | o vvasic manage | ement Facilities, P                   | lase i                           | 20                        |
|-------------------------------|--|----------------------|-----------------------|--------------------------------------|----------------|------------------------|-------------|-------------------------|-----------------|---------------------------------------|----------------------------------|---------------------------|
| D                             | Activity Name  | Original<br>Duration | Remaining<br>Duration | Activity % Current Start<br>Complete | Current Finish | Late Start             | Late Finish | Total Float M60 Remarks | Nov             | 2022 Dec                              | Jan                              | Z3 Feb                    |
| 04-1650(M42)                  | Reception Pavilion   | 135                  | 0                     | 100% 03-Jun-21 A                     | 30-Nov-22      | 29-Dec-22              | 29-Dec-22   | 30                      | 60              | 30-Nov-22. Reception Pavilio          | , Reception Pavilion, 30-Nov-2   | 22                        |
| 04-1660(M42)                  | Administration Building and Viewing Gallery  | 135                  |                       |                                      |                | 29-Dec-22              |             | 30                      |                 | 30-Nov-22, Administration Bu          |                                  |                           |
| 04-1670(M42)                  | Elevated Drive Way and Associated Structures   | 135                  | 0                     | 100% 03-Mar-21 A                     |                | 29-Dec-22              |             | 30                      |                 | 30-Nov-22, Elevated Drive W           |                                  |                           |
| 04-1680(M42)                  | IWMF Substation  | 135                  | 0                     | 100% 03-Mar-21 A                     |                | 29-Dec-22              |             | 30                      |                 | 30-Nov-22, IWMF Substation            | -}                               |                           |
| 04-1690(M46)                  | ACC Equipment Structure  | 30                   | 30                    |                                      |                | 30-Nov-22              |             | 0                       | 30-Nov-22       |                                       | 29-Dec-22, ACC Equipment St      | truoturo                  |
| . ,                           | • • •  | 135                  |                       |                                      |                | _                      |             | 187                     | 30-1107-22      | 01 Doo                                | 22, Weighbridge, Weighbridge     | . 01 Dec 00               |
| 04-1730                       | Weighbridge  |                      |                       | · ·                                  |                | 05-Jun-23              |             |                         |                 | 21-Dec                                | 22, vv eignbridge, vv eignbridge | e, 21-Dec-22              |
| AIP Design Package St         |  | 1562                 |                       |                                      |                | 03-Nov-22              | _           | 459                     |                 |                                       | 1                                |                           |
|                               | Reclamation, Seawall, Breakwater, Berth (2.2)  | 424                  |                       |                                      | _              | 03-Nov-22<br>03-Nov-22 |             | 263                     |                 | Onehene arene Feeilik. (26            | 11\ 00 Dec 00 00 Dec 00 Oc       | ahara arana Fasility (0   |
| 05-2970                       | Onshore crane Facility (2.2.11)  | 90                   |                       | 070 1171pt 2271                      |                | 1                      |             | -27                     |                 | Onshore crane Facility (2.2           | .†1), 02-Dec-22, 02-Dec-22, On   |                           |
| 05-2980                       | Onshore vessel power supply system (2.2.12)  | 135                  |                       | -                                    |                | 20-Aug-23              |             | 263                     |                 |                                       |                                  | 28-Jan-23, Onshore ve     |
| AIP Incineration Plant Bu     |  | 1517                 |                       |                                      |                | 29-Nov-22              |             | 570                     |                 |                                       |                                  |                           |
|                               | s and Fire Saftey Strategy (2.3.00)  Process Building & Wastewater Treatment Plant (2.3.00.01 & 2.5.00.01) | 136<br>105           |                       |                                      |                |                        |             | 0                       |                 | Donata Dailein O. W Anna              |                                  | 0 0 0 00 04) 00 N 0       |
| 05-1210                       |  |                      |                       |                                      |                |                        |             |                         |                 | Process Building & Wastewa            |                                  |                           |
| 05-3020                       | Site Master Layout Plan and Plant Layout (2.1.06)  | 105                  |                       |                                      |                |                        |             | 0                       |                 | Site Master Layout Plan and I         | lant Layout (2.1.06), 30-Nov-22  | 2, 30-Nov-22, Site Mast   |
| Operation Management          | •  | 121                  |                       |                                      |                | 22-Feb-23              |             | 398                     |                 |                                       | <u> </u>                         |                           |
| 05-2250                       | Design of the Air Quality Monitoring Stations (2.9.01)   | 60                   |                       |                                      |                | 22-Feb-23              |             | 84                      |                 | 13-Dec-22, Aut                        | 13-Jan-23, Des                   | sign of the Air Quality N |
| 05-3840-1(M22)                | Automatic Traffic Control System (ATCS) (2.10.06.12)   | 90                   |                       |                                      |                |                        |             | 429                     |                 | 13-Dec-22, Aut                        | matic Traffic Control System (   | ATCS) (2.10.06.12), Au    |
|                               | n (excluding fire services installation design) (2.3.06)   | 1517                 |                       |                                      |                | 29-Dec-22              | - J         | 570                     |                 |                                       | <u> </u>                         |                           |
| 05-1550                       | Electrical Services and Lighting   | 150                  |                       |                                      |                | 29-Dec-22              |             | 30                      |                 | 30-Nov-22, Electrical Service         |                                  |                           |
| 05-1560                       | MVAC (6 Packages)  | 105                  |                       |                                      | _              | 30-May-23              |             | 181                     |                 |                                       | .;                               | 28-Jan-23, MVAC (6 F      |
| 05-1570                       | Odour Control  | 135                  |                       |                                      |                | 30-May-23              |             | 181                     |                 |                                       |                                  | 28-Jan-23, Odour Con      |
| 05-1580                       | Plumbing (7 Packages)  | 210                  | 60                    | 25% 31-Jan-19 A                      | 28-Jan-23      | 12-Jan-24              | 11-Mar-24   | 408                     |                 |                                       | -                                | 28-Jan-23, Plumbing       |
| 05-1590                       | Drainage (7 Packages)  | 135                  | 60                    | 25% 31-Jan-19 A                      | 28-Jan-23      | 12-Jan-24              | 11-Mar-24   | 408                     |                 |                                       |                                  | 28-Jan-23, Drainage (     |
| 05-1600                       | ELV (7 Packages)   | 135                  | 0                     | 25% 28-Feb-19 A                      | 30-Nov-22      | 29-Dec-22              | 29-Dec-22   | 30                      |                 | 30-Nov-22, ELV (7 Packages            | ELV (7 Packages), 30-Nov-22      | 2                         |
| 05-1770                       | Vehicle & Container Wash System  | 60                   | 60                    | 0% 30-Nov-22                         | 28-Jan-23      | 23-Feb-23              | 23-Apr-23   | 85                      | 30-Nov-22       |                                       |                                  | 28-Jan-23, Vehicle &      |
| 05-1770-1(M20)                | Water Cannon System  | 135                  | 30                    | 45% 31-Aug-19 A                      | 29-Dec-22      | 22-Jul-24              | 20-Aug-24   | 600                     |                 |                                       | 29-Dec-22, Water Cannon Sys      | tem, Water Cannon S       |
| AIP Fire services installa    | •  | 270                  | 30                    | -                                    |                |                        | 09-May-23   | 131                     |                 |                                       | ·}                               |                           |
| Reception Pavilion (2.3.      |  | 270                  | 30                    |                                      |                | 10-Apr-23              |             | 131                     |                 |                                       |                                  |                           |
| 05-5460(M22)                  | Fire Systems (2.3.05.06.01)  | 270                  |                       |                                      |                | 10-Apr-23              |             | 131                     |                 |                                       | 29-Dec-22, Fire Systems (2.3.    | 05.06.01), Fire System    |
| 05-5470-1(M22)                | FS schematics (2.3.05.06.03)   | 135                  |                       |                                      |                | · ·                    | -           | 131                     |                 |                                       | 29-Dec-22, FS schematics (2.     |                           |
| AIP Mechanical Treatmen       | , ,  | 181                  |                       |                                      |                |                        | -           | 378                     |                 |                                       |                                  |                           |
|                               | n (excluding fire services installation design) (2.4.06)   | 181                  |                       |                                      | 27-Feb-23      |                        | 11-Mar-24   | 378                     |                 |                                       |                                  |                           |
| 05-1700                       | LV and Emergency Power Distribution Design   | 135                  |                       |                                      |                | 12-Jan-24              |             | 408                     |                 |                                       |                                  | 28-Jan-23 IV and Em       |
| 05-1720                       | Odour Control  | 90                   |                       |                                      |                | _                      |             | 83                      | 30-Nov-22       |                                       |                                  | 20 0411 20, 21 4114 2111  |
| 05-1720                       | Drainage Drainage  | 90                   |                       |                                      |                |                        | -           | 121                     | 30-1404-22      | 09-Dec-22, Drainag                    | Drainage 00 Dec 22               |                           |
| AIP Wastewater Treatmen       | ů  |                      |                       |                                      |                |                        |             | 353                     |                 | 09-Dec-22, Dramay                     | s; Dramage, 09-Dec-22            |                           |
| _                             | n (excluding fire services installation design) (2.5.06)   | 1170<br>1170         |                       |                                      |                | 02-Apr-23              |             |                         |                 |                                       |                                  |                           |
| 5 05-1830                     | LV and Emergency Power Distribution Design (2.5.06.01)   | 135                  |                       |                                      |                | 18-Nov-23              |             | 353<br>353              |                 | -                                     |                                  | 28-Jan-23. LV and Em      |
|                               | * ' '  |                      |                       |                                      |                | _                      |             |                         |                 |                                       |                                  |                           |
| 05-1840                       | MVAC (2.5.06.02)   | 135                  |                       |                                      |                |                        | 15-Jun-23   | 138                     |                 |                                       |                                  | 28-Jan-23, MVAC (2.5      |
| 05-1850                       | Odour Control (2.5.06.03)  | 105                  | 60                    | 070 01 000 011                       |                | 23-Apr-23              |             | 144                     |                 |                                       |                                  | 28-Jan-23, Odour Cor      |
| 05-1860                       | Plumbing (2.5.06.04)   | 135                  |                       |                                      |                | · ·                    | 15-Jun-23   | 138                     |                 | · · · · · · · · · · · · · · · · · · · |                                  | 28-Jan-23, Plumbing       |
| 05-1870                       | Drainage (2.5.06.05)   | 135                  | 60                    | 25% 31-Jan-19 A                      | 28-Jan-23      | 02-Apr-23              | 31-May-23   | 123                     |                 |                                       |                                  | 28-Jan-23, Drainage (     |
| 05-1880                       | ELV (2.5.06.06)  | 135                  | 60                    | 25% 01-Feb-19 A                      | 28-Jan-23      | 22-May-23              | 20-Jul-23   | 173                     |                 |                                       |                                  | 28-Jan-23, ELV (2.5.0     |
| AIP Water Treatment Plan      |  | 135                  | 60                    | 30-Apr-19 A                          | 28-Jan-23      | 18-Mar-23              | 16-May-23   | 108                     |                 |                                       |                                  |                           |
|                               | n (excluding fire services installation design) (2.6.06)   | 135                  |                       |                                      |                |                        |             | 108                     |                 |                                       | ļ                                |                           |
| 05-1960                       | Electrical Services and Lighting (2.6.06.01)   | 135                  | 60                    | 25% 30-Apr-19 A                      | 28-Jan-23      | 18-Mar-23              | 16-May-23   | 108                     |                 |                                       |                                  | 28-Jan-23, Electrical     |
| 05-2000                       | Drainage   | 135                  | 10                    | 70% 20-Mar-22 A                      | 09-Dec-22      | 31-Mar-23              | 09-Apr-23   | 121                     |                 | 09-Dec-22, Drainag                    | prainage, 09-Dec-22              |                           |
| AIP Administration Build      |  | 1033                 | 60                    | 31-Oct-19 A                          | 28-Jan-23      | 15-Jan-23              | 15-Jul-23   | 168                     |                 |                                       |                                  |                           |
| 05-2050                       | Electrical and instrumentation works design (2.7.03)   | 90                   | 60                    | 33.33% 31-May-22                     | 28-Jan-23      | 17-May-23              | 15-Jul-23   | 168                     |                 |                                       |                                  | 28-Jan-23, Electrical     |
| Building services design      | n (excluding fire services installation design) (2.7.05)   | 135                  | 60                    | 31-Oct-19 A                          | 28-Jan-23      | 15-Jan-23              | 15-Mar-23   | 46                      |                 |                                       | 1                                |                           |
| 05-2080                       | MVAC   | 135                  | 60                    | 65% 31-Oct-19 A                      | 28-Jan-23      | 15-Jan-23              | 15-Mar-23   | 46                      |                 |                                       |                                  | 28-Jan-23, MVAC, M        |
| AIP IWMF Substation (2.8      | 8)   | 180                  | 30                    | 31-Oct-19 A                          | 29-Dec-22      | 08-Jan-23              | 06-Feb-23   | 39                      |                 |                                       | 1                                |                           |
| 05-2170                       | Electrical and instrumentation works design (2.8.03) (14 Packages)   | 180                  | 30                    | 45% 31-Oct-19 A                      | 29-Dec-22      | 08-Jan-23              | 06-Feb-23   | 39                      |                 |                                       | 29-Dec-22, Electrical and instr  | rumentation works des     |
| AIP Chimney                   |  | 151                  | 60                    | 20-Sep-21 A                          | 28-Jan-23      | 16-Feb-23              | 31-Jan-24   | 368                     |                 |                                       | <br>                             |                           |
| <u> </u>                      | n (excluding fire services installation design)  | 151                  | 60                    |                                      |                |                        |             | 368                     |                 |                                       | <br>                             |                           |
| 05-5430(5a)                   | Electrical Services and Lighting   | 90                   | 60                    | 5% 20-Sep-21 A                       | 28-Jan-23      | 03-Dec-23              | 31-Jan-24   | 368                     |                 |                                       |                                  | 28-Jan-23, Electrical     |
| 05-5440(5a)                   | MVAC   | 90                   | 30                    | 5% 20-Sep-21 A                       | 29-Dec-22      | 16-Feb-23              | 17-Mar-23   | 78                      |                 |                                       | 29-Dec-22, MVAC, MVAC, 29-       | Dec-22                    |
| 05-5450(5a)                   | Plumbing   | 90                   | 60                    | 5% 20-Sep-21 A                       | 28-Jan-23      | 26-Nov-23              |             | 361                     |                 |                                       | .,                               | 28-Jan-23, Plumbing       |
| 05-5460-1(5a)                 | Drainage   | 90                   |                       |                                      |                |                        | 24-Jan-24   | 361                     |                 |                                       |                                  | 28-Jan-23, Drainage,      |
| 05-5470(5a)                   | ELV  | 90                   |                       |                                      |                | 03-Dec-23              |             | 368                     |                 |                                       | .;                               | 28-Jan-23, ELV, ELV,      |
| 05-5490(5a)                   | Building Management System (BMS)   | 90                   |                       | · · · · · ·                          |                | 16-Jul-23              |             | 228                     |                 |                                       |                                  |                           |
| , ,                           |  |                      |                       |                                      |                |                        |             |                         |                 |                                       |                                  | 28-Jan-23, Building N     |
|                               | and Associated Structures Foundation   | 105                  |                       |                                      |                |                        |             | 48                      |                 |                                       | -                                |                           |
|                               | n (excluding fire services installation design)  | 105                  |                       |                                      |                | 17-Jan-23              |             | 48                      |                 |                                       | <u> </u>                         | 00 lan 00 Eltil 1         |
| 05-7090                       | Electrical Services and Lighting   | 105                  |                       |                                      |                | 17-Jan-23              |             | 48                      |                 |                                       |                                  | 28-Jan-23, Electrical     |
| AIP Roads and Utilities (2    |  | 820                  |                       |                                      |                |                        |             | 278                     |                 |                                       | <u> </u>                         |                           |
|                               | sign on the Artificial Island (2.10.04)  | 820                  |                       |                                      |                | 09-Dec-22              |             | 174                     | 20.11           |                                       | <u> </u>                         | 00 1 00 144 : =           |
| 05-2360                       | Water Tanks (2.10.04.05)   | 60                   |                       |                                      |                | 09-Dec-22              |             | 9                       | 30-Nov-22       |                                       |                                  | 28-Jan-23, Water Tank     |
| 05-2370-2(M24)                | Building Services system for seawater intake (2.10.04.09)  | 105                  | 60                    |                                      |                |                        |             | 174                     |                 |                                       |                                  | 28-Jan-23, Building S     |

## **3-Month Rolling Programme (November 2022)**

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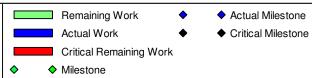




| KEPPEL SEGMERS - ZMEN HUA FOR                 | Activity Name  | Original     | Remaining | Activity % | Current Start              | Current Finish | Late Start             | Late Finish | Total Float M60 Remarks | 1           | 2022                     | 2023   |
|---|--|--------------|-----------|------------|----------------------------|----------------|------------------------|-------------|-------------------------|-------------|--------------------------|--|
|   |  | Duration     | Duration  | Complete   |                            |                |                        |             |                         | Nov<br>60   | Dec<br>61                | Jan Feb<br>62 63   |
| 3 05-2370-3(5a)                               | Chemical scrubber system for odour control (2.10.04.10)  | 105          | 60        | 5% 3       | 31-Oct-21 A                | 28-Jan-23      | 23-May-23              | 21-Jul-23   | 174                     |             | 01                       | 28-Jan-23, Chemical  |
| Design of telecommunic                        | cation and other utilities (2.10.06)   | 590          | 5         | 3          | 31-Jan-21 A                | 04-Dec-22      | 04-Dec-22              | 02-Nov-23   | 333                     |             |                          |  |
| 05-2380                                       | Power Distribution System concept / schematics (2.10.06.01)  | 135          | 1         | 5% 3       | 31-Jan-21 A                | 30-Nov-22      | 02-Nov-23              | 02-Nov-23   | 337                     |             | 30-Nov-22, Power Distrib | ution System concept / schematics (2.10.06.01), Power      |
| <b>o</b> 5-2430                               | Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)                          | 105          | 5         | 80% 3      | 31-May-22                  | 04-Dec-22      | 04-Dec-22              | 08-Dec-22   | 4                       |             | 04-Dec-22, Site ELV      | Network System - Navigation aids concept / schematics      |
| _Utility ducts/Pipebridge                     | es design (2.10.25)  | 455          | 60        | (          | 01-May-21                  | 28-Jan-23      | 23-Jan-23              | 19-Sep-23   | 234                     |             |                          |  |
| <b>o</b> 05-2460                              | Design of Pipe / Utilities Trenches concept (2.10.06.09.01)  | 105          | 60        | 5% (       | 01-May-21                  | 28-Jan-23      | 22-Jul-23              | 19-Sep-23   | 234                     |             |                          | 28-Jan-23, Design of                                       |
| 05-2470                                       | Sitewide Utilities Trenches Design (2.10.06.09.02)   | 105          | 60        | 5% 0       | 01-May-21                  | 28-Jan-23      | 23-Jan-23              | 23-Mar-23   | 54                      |             |                          | 28-Jan-23, Sitewide  |
| Layout Plan for Pipe B                        | ridge Network  | 60           | 30        | 3          | 31-May-22                  | 29-Dec-22      | 04-Jul-23              | 20-Aug-23   | 234                     |             |                          |  |
| <b>5-6010</b>                                 | Pipebridge B   | 60           | 30        | 50% 3      | 31-May-22                  | 29-Dec-22      | 22-Jul-23              | 20-Aug-23   | 234                     |             |                          | 29-Dec-22, Pipebridge B, Pipebridge B, 29-Dec-22           |
| <b>05-6020</b>                                | Pipebridge C   | 60           | 30        | 50% 3      | 31-May-22                  | 29-Dec-22      | 04-Jul-23              | 02-Aug-23   | 216                     |             |                          | 29-Dec-22, Pipebridge C, Pipebridge C, 29-Dec-22           |
| AIP Architectural, Finishe                    | es and Landscaping Works (2.11)  | 699          | 61        | (          | 08-May-20                  | 29-Jan-23      | 06-Feb-23              | 15-Feb-24   | 382                     |             |                          | ļ  |
| External and internal fin                     | nishes design  | 439          | 10        | 3          | 31-Oct-20 A                | 09-Dec-22      | 20-Apr-23              | 20-Jul-23   | 223                     |             |                          |  |
| 05-2570                                       | External and internal finishes design for MT Plant Building (2.11.02)                                | 105          | 10        | 45% 3      | 31-Oct-20 A                | 09-Dec-22      | 11-Jul-23              | 20-Jul-23   | 223                     |             | 09-Dec-22, Exte          | rnal and internal finishes design for MT Plant Building (2 |
| <b>o</b> 05-2590                              | External and internal finishes design for the Water Treatment Plant Building (2.11.04)               | 105          | 10        | 25% 3      | 30-Sep-21 A                | 09-Dec-22      | 11-Jul-23              | 20-Jul-23   | 223                     |             | 09-Dec-22, Exte          | rnal and internal finishes design for the Water Treatment  |
| 05-2600                                       | External and internal finishes design for the Administration Building (2.11.05)                      | 105          | 10        | 45% 3      | 31-Oct-20 A                | 09-Dec-22      | 20-Apr-23              | 29-Apr-23   | 141                     |             | 09-Dec-22, Exte          | rnal and internal finishes design for the Administration B |
| Landscaping Works (2.1                        | 11.07)   | 180          | 30        | (          | 08-May-20                  | 29-Dec-22      | 06-Feb-23              | 07-Mar-23   | 68                      |             |                          |  |
| 05-2620                                       | Landscape Masterplan & Landscape Design for Water Feature (2.11.07.01)                               | 105          | 30        | 45% 1      | 19-Jun-20 A                | 29-Dec-22      | 06-Feb-23              | 07-Mar-23   | 68                      |             |                          | 29-Dec-22, Landscape Masterplan & Landscape De             |
| 05-2920_3(M34)                                | Landscape Architectural Design for MT Plant Building and Water Treatment Plant Building (2.11.07.07) | 105          | 30        | 5% 1       | 16-Jun-22 A                | 29-Dec-22      | 06-Feb-23              | 07-Mar-23   | 68                      |             |                          | 29-Dec-22, Landscape Architectural Design for MT I         |
| 05-2920_4(M34)                                | Landscape Architectural Design for Administration Building (2.11.07.08)                              | 105          | 30        | 5% (       | 08-May-20                  | 29-Dec-22      | 06-Feb-23              | 07-Mar-23   | 68                      |             |                          | 29-Dec-22, Landscape Architectural Design for Adm          |
| Facade Structural Design                      | ייני ווגריי ייני איני איני איני איני איני איני א   | 242          | 61        | 2          | 26-Aug-21 A                | 29-Jan-23      | 17-Nov-23              | 15-Feb-24   | 382                     |             |                          | <del> </del>   |
| 05-8040-1(6D)                                 | Reception Pavilion (2.3.14.07.01)  | 90           | 60        | 5% (       | 05-Oct-21 A                | 28-Jan-23      | 18-Dec-23              | 15-Feb-24   | 383                     |             |                          | 28-Jan-23, Reception                                       |
| 05-8050-1(6D)                                 | Mechanical Treatment Plant & Desalination Plant Building (2.4.14.01)                                 | 90           | 60        | 5% (       | 08-Mar-22 A                | 28-Jan-23      | 18-Nov-23              | 16-Jan-24   | 353                     |             |                          | 28-Jan-23, Mechanic  |
| 05-8060-1(6D)                                 | Adminstration Building and Viewing Gallery (2.7.12.01)   | 90           | 60        | 5% (       | 07-Dec-21 A                | 28-Jan-23      | 18-Nov-23              | 16-Jan-24   | 353                     |             |                          | 28-Jan-23, Adminstra                                       |
| 05-8080-1(6D)                                 | Elevated Driveway and Associated Structures  | 91           | 61        |            | 26-Aug-21 A                |                | 17-Nov-23              |             | 352                     |             |                          | 29-Jan-23, Elevated  |
| AIP Testing and Commis                        | •  | 105          | 60        |            | -                          |                | 25-Jul-23              |             | 237                     |             |                          |  |
| 05-2650-1(5)                                  | Factory Acceptance Testing plan (2.12.01.02-07) (8 Packages)   | 105          | 60        |            | 23-Apr-19 A                |                | 25-Jul-23              |             | 237                     |             |                          | 28-Jan-23, Factory A                                       |
|   | ities for the Operation (2.13)   | 105          | 37        |            | <u> </u>                   |                | 02-Jan-23              |             | 33                      |             |                          | 20 0011 20, 1 0001 7 7                                     |
| 05-2690                                       | Design of vehicles for MSW and Ash and Residues delivery (2.13.01)                                   | 105          | 37        |            | 30-Sep-20 A                |                | 02-Jan-23              |             | 33                      |             |                          | 05-Jan-23, Design of vehicles for MSW and                  |
| AIP Miscellaneous Works                       |  | 865          | 105       |            | 31-Oct-20 A                |                | 09-Dec-22              |             | 54                      |             |                          |  |
| 05-2710                                       | Design of process related CCTV and existing onshore crane replacement works at Portion 2 (2.14.01)   | 105          | 105       |            | 30-Nov-22                  |                | 09-Dec-22              |             | 9                       | 30-Nov-     |                          | <u> </u>   |
| 05-2720                                       | Design of visitors and environmental education facilities (2.14.02)                                  | 105          | 60        |            | 31-Oct-20 A                |                | 09-Mar-23              |             | 99                      | 30-1407-    |                          | 28-Jan-23, Design of                                       |
|   |  |              |           |            |                            |                |                        | -           |                         |             |                          | 20-0air-25, Design of                                      |
| AIP Miscellaneous Detail<br>05-2740           | Gatehouses (2.15.03)   | 90           | 90        |            |                            |                | 28-May-23<br>29-May-23 | 3           | 180                     |             |                          | ·  |
|   | , ,  | 90           | 30        |            | 25-May-22                  |                | -                      | -           | 179                     |             |                          | 00 Dec 00 Weighbeider (645 (045 04) Weighbeid              |
| 05-2750                                       | Weighbridge office (2.15.04)   |              |           |            | -                          |                | 28-May-23              |             |                         |             |                          | 29-Dec-22, Weighbridge office (2.15.04), Weighbrid         |
| AIP Auxiliary Plant Syste                     | vehicle Fuel Filling Station (2.16.02)   | 90           | 90        |            |                            |                | 24-Jan-23              | _           | 55                      | 00 Nev      |                          |  |
| 05-2770                                       | venide Fuer Friling Station (2.16.02)  |              | 90        |            | 30-Nov-22                  |                | 24-Jan-23              |             | 55                      | 30-Nov-     | 22                       | ·  |
| _AIP O&M Packages<br>05-8010(6E)              | Warehouse (O&M Scope)  | 258<br>185   | 171<br>73 |            | 04-Jul-22 A<br>04-Jul-22 A |                | 21-Sep-23<br>21-Sep-23 |             | 416<br>295              |             |                          | 10-Feb-  |
| ·   | · · · · · ·  | 160          | 69        |            | 06-Jun-22 A                |                | <u> </u>               |             | 449                     |             |                          |  |
| 05-8030(6E)                                   | Ash & Residues Container (O&M Scope)   |              |           |            |                            |                | 22-Feb-24              | 30-Apr-24   |                         | 47 N 00 A   |                          | 06-Feb-23,   |
| 05-8040(6E)                                   | Bicar Debagging Station (O&M Scope)  | 105          | 171       |            | 17-Nov-22 A                | -              | 20-Jan-24              |             | 416                     | 17-Nov-22 A |                          | <del></del>  |
| DDA Design Package                            |  | 1660         | 227       |            | 05-Sep-18 A                |                | 30-Nov-22              |             | 531                     |             |                          |  |
| DDA Processand Layout                         |  | 621          |           |            | _                          |                | 11-Jan-23              |             | 567                     |             |                          |  |
|   | design for incineration (2.1.13)   | 348          | 122       |            | 22-Apr-20 A                |                | <del></del>            | 18-Oct-24   | 567                     |             |                          |  |
| 05-5090                                       | Incineration System (2.1.13.01) (2 Packages)   | 105          | 76        |            | 22-Apr-20 A                |                | 12-Apr-23              |             | 133                     |             |                          | 13-F   |
| 05-5100                                       | Heat Recovery Boiler (2.1.13.02) (2 Packages)  | 105          | 76        |            | · ·                        |                | 12-Apr-23              |             | 133                     |             |                          | 13-F   |
| 05-5140                                       | Overall Plan Water Scheme (2.1.13.07)  | 105          | 122       | 5% 2       | 29-Jan-21 A                | 31-Mar-23      | 19-Jun-24              | 18-Oct-24   | 567                     |             |                          |  |
| 05-5150                                       | Boiler Feed Water System (2.1.13.03) (2 Packages)  | 105          | 6         | 45% 2      | 23-Apr-20 A                | 05-Dec-22      | 04-Aug-23              | 09-Aug-23   | 247                     |             | 05-Dec-22, Boiler Fe     | eed Water System (2.1.13.03) (2 Packages), Boiler Fee      |
| MSW treatment process                         | s design for mechanical treatment (2.1.14)   | 105          | 64        | (          | 02-Oct-20 A                | 01-Feb-23      | 31-Mar-23              | 02-Jun-23   | 121                     |             |                          |  |
| 05-3510                                       | Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant                                  | 105          | 64        | 5% 0       | 02-Oct-20 A                | 01-Feb-23      | 31-Mar-23              | 02-Jun-23   | 121                     |             |                          | 01-Feb-23, Wate  |
| Waste heatrecovery and                        | d Power generation system (2.1.15)   | 105          | 60        | 3          | 30-Sep-21 A                | 28-Jan-23      | 26-Oct-23              | 24-Dec-23   | 330                     |             |                          |  |
| 05-5240                                       | Compressed Air Plants  | 105          | 60        | 25% 3      | 30-Sep-21 A                | 28-Jan-23      | 26-Oct-23              | 24-Dec-23   | 330                     |             |                          | 28-Jan-23, Compres   |
| Flue gas treatment proc                       | ess design for incineration (2.1.16)   | 105          | 121       | 2          | 23-Apr-20 A                | 30-Mar-23      | 11-Jan-23              | 11-May-23   | 42                      |             |                          |  |
| 05-4660                                       | Flue Gas Treatment System (2 Packages)   | 105          | 121       | 80% 2      | 23-Apr-20 A                | 30-Mar-23      | 11-Jan-23              | 11-May-23   | 42                      |             |                          |  |
| 05-4980                                       | Boiler ash and APC residue handling and solidification (2 Packages)                                  | 105          | 25        | 80% 3      | 30-Sep-20 A                | 24-Dec-22      | 17-Apr-23              | 11-May-23   | 138                     |             |                          | 24-Dec-22, Boiler ash and APC residue handling and sol     |
| Logistic arrangement de                       | esign for MSW and Ash and Residues (2.1.17)  | 105          | 47        | 2          | 25-Aug-21 A                | 15-Jan-23      | 10-Apr-23              | 25-Sep-23   | 253                     |             |                          |  |
| 05-4390                                       | Weighbridge Systems  | 105          | 1         | 5% 2       | 25-Aug-21 A                | 30-Nov-22      | 25-Sep-23              | 25-Sep-23   | 299                     |             | 30-Nov-22 Weighbridge    | Systèms Weighbridge Systems 30-Nov-22                      |
| 05-4410                                       | Mechanical Shredder  | 105          | 47        | 5% 2       | 25-Sep-21 A                | 15-Jan-23      | 10-Apr-23              | 26-May-23   | 131                     |             |                          | 15-Jan-23, Mechanical Shredder,                            |
| DDA Ground Treatment, I                       | Reclamation, Seawall, Breakwater, Berth (2.2)  | 816          | 20        | 2          | 20-Jan-19 A                | 19-Dec-22      | 27-Dec-22              | 02-Mar-24   | 439                     |             |                          |  |
| 05-3430-2(M37)                                | Geotechnical Interpretative Report (2.2.02.02)   | 105          | 10        |            |                            |                | 27-Dec-22              |             | 27                      |             | 09-Dec-22, Geot          | echnical Interpretative Report (2.2.02.02), Geotechnical   |
| 05-3450                                       | Seawall design (2.2.20)  | 60           | 20        |            |                            |                | 12-Feb-24              |             | 439                     |             |                          | c-22, Seawall design (2.2.20), Seawall design (2.2.20),    |
| 05-3470                                       | Berth design (2.2.22)  | 60           | 20        |            |                            |                | 06-Apr-23              |             | 127                     |             |                          | c-22; Berth design (2.2.22), Berth design (2.2.22), 19-De  |
|   |  |              |           |            |                            |                | 30-Nov-22              |             | 290                     |             | 13-De                    | ======================================                     |
| DDA Incineration Plant B                      |  | 1554<br>1478 | 227       |            | <del></del>                |                | 30-Nov-22<br>02-Dec-22 |             |                         |             |                          |  |
| Electrical and instrumer 2.3.15.01            | ntation works design (2.3.15)  | 14/8         | 121<br>62 |            |                            |                | 02-Dec-22<br>21-Jan-23 |             | 396<br>52               |             |                          |  |
| 05-3360                                       | 11kV/380V Power Transformers Design (2.3.15.01)  | 105          | 62        |            |                            |                | 21-Jan-23<br>21-Jan-23 |             | 52                      |             |                          | 30-Jan-23, 11kV/3  |
|   |  | 378          | 108       |            |                            |                |                        |             | 186                     |             |                          | 30-Jan-23, 11KV/30   |
|   |  | 3/8          | 108       | 2          | 22-36h-20 A                | 17-IVId1-23    | 08-Dec-22              |             |                         |             |                          | i  |
| E&IC Package 1 (Proce                         |  | 100          | 10F       | E0/ 4      | 17-Feh-22 A                | 14-Mar-22      | 22-Fah 22              | U6- lin 33  | 84                      |             |                          |  |
| E&IC Package 1 (Proce 05-3370 05-3390-10(M55) | Electric Heat Tracing (Process Island) (2.3.15.02.10) Electrical Works - MCC Panels (2.3.15.02.01)   | 120<br>105   | 105<br>16 |            | 17-Feb-22 A                |                | 22-Feb-23<br>04-Aug-23 |             | 247                     |             |                          | e, Electrical Works - MCC Panels (2.3.15.02.01), Electri   |

## **3-Month Rolling Programme (November 2022)**

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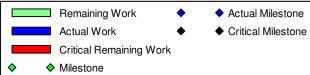




|  | VENTURE Addition Name  | 0-1-1-1  | Domein'   | Aprilia or 1  | Current Ct.   | Current F:   | Lata Ctard  | Late Cini   |   | ,   | ment acinties, Frias                | 0000   |   |
|--|--|--|---|---|---|--|---|---|---|-----|-------------------------------------|--|---|
|  | Activity Name  | Original<br>Duration   | Duration  | Complete  | Current Start   | Current Finish   | Late Start  | Late Finish   | Total Float M60 Remarks   | Nov | Dec                                 | Jan  | Feb   |
| 05 0000 44 (M55)   | Florida I Warlan Danas a bland Heisters at the Danas Contact (UDC) (10.4 f. 20.20)   | 105  | 40  | 000/  | 07 Nov. 00 A  | 45 D 00  | 04.0 00   | 40.0 00   | 070   | 60  | 61                                  | 62   | 63  |
| 05-3390-11(M55)  | Electrical Works - Process Island Uninterruptable Power Supply (UPS) (2.3.15.02.03)  | 105  | 16  |   |   | 15-Dec-22  | 04-Sep-23   |   | 278   |     |                                     | I Works - Process Island U   | <del>' .</del>  |
| 05-3390-13(M55)  | Electrical Works E&I Installation at Yard (2.3.15.02.08)   | 105  | 32  | 25%   | 07-May-22   | 31-Dec-22  | 08-Dec-22   |   | 8   |     |                                     | Dec-22, Electrical Works E   |   |
| 05-3390-6(M55)   | Electrical Works Instrumentation (2.3.15.02.06)  | 105  | 20  | 80%   | 15-Oct-21 A   | 19-Dec-22  | 26-Jan-23   | 14-Feb-23   | 57  |     | 19-Dec-22, Elec                     | trical Works Instrumentation   | ı (2.3.15.02.06), E   |
| 05-7400-1(M55)   | Electrical works CEMS and Process Analysers (2.3.15.02.07)   | 105  | 108   | 5%  | 12-Jul-21 A   | 17-Mar-23  | 11-Feb-23   | 29-May-23   | 73  |     |                                     |  |   |
| E&IC Package 2 (Power Is   | sland) (2.3.15.03)   | 773  | 52  |   | 16-Sep-19 A   | 20-Jan-23  | 02-Dec-22   | 29-Apr-24   | 465   |     | !                                   |  |   |
| 05-3390-13(M55)10  | Electrical Works Design (2.3.15.03.01 to 04)   | 105  | 30  | 80%   | 23-Dec-20 A   | A 29-Dec-22  | 02-Dec-22   | 31-Dec-22   | 2   |     | 29-De                               | c-22, Electrical Works Desi  | gn (2.3.15.03.01 to   |
| 05-3390-4(M46)   | Generator Related Equipment (2.3.15.03.08)   | 105  | 52  | 80%   | 29-Jun-21 A   | 20-Jan-23  | 30-Jul-23   | 19-Sep-23   | 242   |     | <del>-</del>                        | 20-Jan-23.   | Generator Related   |
| 05-3390-7(M55)   | Instrumentation works design(2.3.15.03.05 &2.3.15.03.06)   | 105  | 32  |   |   | 31-Dec-22  | 21-May-23   |   | 172   |     | 21.                                 | Dec-22, Instrumentation worl   |   |
|  | •  |  | -   |   |   |  | -   |   |   |     | 31-1                                | won  | .s design(2.3.13.0  |
|  | CADA & PLC Control System (2.3.15.03.07)   | 592  | 45  |   | •   | 13-Jan-23  |   | 29-Apr-24   | 472   |     |                                     |  |   |
| 05-3390-1(M46)   | Hardware Design (2.3.15.03.07.01)  | 105  | 24  |   | · · · · · · · · · · · · · · · · · · ·   | 23-Dec-22  | · ·   | 29-Apr-24   | 493   |     |                                     | Hardware Design (2.3.15.03.  |   |
| 05-3390-2(M46)   | Software Design (2.3.15.03.07.02)  | 105  | 45  | 45%   | 30-Oct-21 A   | 13-Jan-23  | 13-Feb-23   | 29-Mar-23   | 75  |     |                                     | 13-Jan-23, Softwar   | e Design (2.3.15.0  |
| 305-3390-3(6D)   | Functional Description Specification (FDS) of Power Island (2.3.15.03.07.03)   | 105  | 31  | 65%   | 31-Dec-21 A   | 30-Dec-22  | 27-Feb-23   | 29-Mar-23   | 89  |     | 30-D                                | ec-22, Functional Descriptio   | n Specification (F  |
| Operation Management Sy  | System (2.3.15.04)   | 1478   | 121   |   | 05-Sep-18 A   | 30-Mar-23  | 22-Dec-22   | 29-Apr-24   | 396   |     |                                     |  |   |
| 05-3390-7(M46)   | Software Standard Component  | 105  | 60  | 5%  | 09-Dec-20 A   | 28-Jan-23  | 01-Mar-24   | 29-Apr-24   | 457   |     |                                     | 28-  | Jan-23, Software  |
| 05-7400(6E)  | Automatic License Plate and Container Recognition System (ALPCRS)  | 105  | 121   | 45%   | 05-Sen-18 A   | 30-Mar-23  | 22-Dec-22   | 21-Anr-23   | 22  |     |                                     |  | <u></u>   |
|  | Automatic Electise Frate and Container Recognition System (AEI Only)   |  |   |   |   |  |   |   |   |     |                                     |  |   |
| 2.3.15.04.02   | 010/00171/000 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 105  | 52  |   |   | 20-Jan-23  | 24-May-23   |   | 175   |     |                                     |  | 0140/00454/50   |
| 05-3390-6(M46)   | OMS/SCADA/DCS - System Networks Details (2.3.15.04.02)   | 105  | 52  |   |   | 20-Jan-23  | 24-May-23   |   | 175   |     |                                     | 20-Jan-23,   | OMS/SCADA/DO  |
| 2.3.15.04.03   |  | 410  | 105   |   |   | 14-Mar-23  | 14-Jul-23   | 29-Apr-24   | 412   |     |                                     |  |   |
| 2.3.15.04.03.01  |  | 105  | 0   |   |   | 30-Nov-22  | 14-Jul-23   | 14-Jul-23   | 227   |     |                                     |  |   |
| 05-3390-8(M46)   | OMS/SCADA/DCS - OLM Panel Design for Power Island (2.3.15.04.03.01.02)   | 105  | 0   | 80%   | 15-Dec-21 A   | 30-Nov-22  | 14-Jul-23   | 14-Jul-23   | 227   |     | 30-Nov-22, OMS/SCADA/DCS - OLI      | M Panel Design for Power Is  | land (2.3.15.04.0?  |
| 2.3.15.04.03.02  |  | 105  | 105   |   | 02-Aug-22 A   | 14-Mar-23  | 16-Jan-24   | 29-Apr-24   | 412   |     |                                     |  |   |
| 5 05-3390-13(M58)  | OMS/SCADA/DCS - Panel Design for Power Island and Plant Commom (2.3.15.04.03.02)   | 105  | 105   | 80%   | 02-Aug-22 A   | 14-Mar-23  | 16-Jan-24   | 29-Apr-24   | 412   |     |                                     |  |   |
| 2.3.15.04.03.03  |  | 105  | 35  |   | 19-Apr-22 A   | 03-Jan-23  | 26-Mar-24   | 29-Apr-24   | 482   |     |                                     |  |   |
| 05-3390-14(M55)  | OMS/SCADA/DCS - Server Panel Design (2.3.15.04.03.03)  | 105  | 35  |   | •   | 03-Jan-23  | 26-Mar-24   |   | 482   |     |                                     | 3-Jan-23 OMS/SCADA/DC  | S - Server Panel  |
| 2.3.15.04.06   | Silision and the silisi | 105  | 31  |   |   | 30-Dec-22  | 15-Jul-23   | 14-Aug-23   | 227   |     |                                     |  |   |
|  | Process Polytod Ond Process (1994 5 04 50 40 50 40 50 40 50 60 50  |  |   |   |   |  |   | -   |   |     | 100.0                               |  | Dt- 0t (0   |
| 05-3390-9(6D)  | Process Related 3rd Party System (2.3.15.04.06.01.01)  | 105  | 31  |   |   | 30-Dec-22  | 15-Jul-23   | 14-Aug-23   | 227   |     | 30-D                                | ec-22, Process Related 3rd   | Party System (2   |
| 05-3420(M58)   | 3rd Party System for Power Island & Communication Data Tables for Process Vol 1 and Power Island & Plant C. Vol 1 & 2  | 105  | 30  | 80%   | 06-Oct-21 A   | 29-Dec-22  | 15-Jul-23   | 13-Aug-23   | 227   |     | 29-De                               | c-22, 3rd Party System for F   | ower Island & C   |
| 2.3.15.05  |  | 105  | 121   |   | 15-Jul-21 A   | 30-Mar-23  | 26-Feb-23   | 17-Sep-23   | 171   |     |                                     |  |   |
| 05-3390-15(M55)  | Balance of Plant LV Switchgear Design (2.3.15.05.01)   | 105  | 119   | 80%   | 07-May-22   | 28-Mar-23  | 28-Feb-23   | 26-Jun-23   | 90  |     |                                     |  |   |
| 05-3390-16(M55)  | Package 3 (Balance of Plant) - Weighbridge Electrical & Instrumentation Package & ALPCRS (2.3.15.05.07)  | 105  | 121   | 45%   | 04-Jan-22 A   | 30-Mar-23  | 26-Feb-23   | 26-Jun-23   | 88  |     |                                     |  |   |
| 05-3390-17(M55)  | Waste Crane Functional Description (2.3.15.05.08)  | 105  | 47  | 80%   | 15-Jul-21 A   | 15-Jan-23  | 02-Aug-23   | 17-Sep-23   | 245   |     |                                     | 15-Jan-23 Wast   | e Crane Function  |
|  | . , , ,  |  | .,  |   |   |  |   |   |   |     |                                     |  |   |
| 05-3390-3(M55)   | Electrical and Instrumentation Works Design - Compressed Air Plants (2.3.15.05.03)   | 105  | 0   |   |   | 30-Nov-22  | 07-Jul-23   | 07-Jul-23   | 220   |     | 30-Nov-22, Electrical and Instrumen |  |   |
| 05-3390-5(M55)   | Electrical and Instrumentation Works - Ash Crane (23.15.05.05)   | 105  | 32  | 80%   | 30-Aug-21 A   | 31-Dec-22  | 16-Aug-23   | 16-Sep-23   | 259   |     | 31-1                                | Dec-22, Electrical and Instru  | mentation Works   |
| 2.3.15.07  |  | 105  | 105   |   | 27-Sep-21 A   | 14-Mar-23  | 16-Jan-24   | 29-Apr-24   | 412   |     |                                     |  |   |
| 05-3390-20(M55)  | SCADA & PLC Control System - Software Design (2.3.15.07.02)  | 105  | 105   | 5%  | 27-Sep-21 A   | 14-Mar-23  | 16-Jan-24   | 29-Apr-24   | 412   |     |                                     |  |   |
| 2.3.15.08  |  | 105  | 105   |   | 23-May-22   | 14-Mar-23  | 16-Jan-24   | 29-Apr-24   | 412   |     | !                                   |  |   |
| 05-3390-21(M55)  | Operation Management System (2.3.15.08)  | 105  | 105   | 80%   | 23-May-22   | 14-Mar-23  | 16-Jan-24   | 29-Apr-24   | 412   |     |                                     |  |   |
| Mechanical works design (2   | (2.3.16)   | 1323   | 227   |   | 28-Feb-19 A   | 14-Jul-23  | 09-Dec-22   | 23-Jan-24   | 193   |     |                                     |  |   |
| Plant and Equipment  |  | 1323   | 227   |   | 28-Feb-19 A   | 14-Jul-23  | 05-Feb-23   | 25-Sep-23   | 73  |     |                                     |  |   |
| 05-3390-4(M55)   | Electrical and Instrumentation Works - Was te Crane and Grapple System (2.3.16.01.02)  | 405  | 47  | 700/  | 07 Inn 00 A   | 15-Jan-23  | 02-Aug-23   | 17-Sen-23   | 245   |     |                                     |  | de el ese d'herekenne   |
| 00-0030-4(IVIOO)   |  | 105  |   | 70%   | 07-Jan-20 A   |  |   |   |   |     |                                     | 15-Jan-23, Elect   | ricai and instrum   |
|  |  |  |   |   |   | 30-Jan-23  |   |   |   |     |                                     | 15-Jan-23, Elect   |   |
| 05-3580  | Weighbridge Systems  | 105  | 62  | 5%  | 30-Mar-22 A   | 30-Jan-23  | 26-Jul-23   | 25-Sep-23   | 238   |     |                                     |  |   |
| 05-3580<br>05-3610   | Weighbridge Systems Incineration System (9 Packages)   | 105<br>105   | 62<br>148   | 5%<br>5%  | 30-Mar-22 A<br>28-Feb-19 A  | 26-Apr-23  | 26-Jul-23<br>15-Mar-23  | 25-Sep-23<br>09-Aug-23  | 238<br>105  |     |                                     |  |   |
| 05-3580<br>05-3610   | Weighbridge Systems  | 105  | 62  | 5%<br>5%  | 30-Mar-22 A   | 26-Apr-23  | 26-Jul-23   | 25-Sep-23<br>09-Aug-23  | 238   |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620  | Weighbridge Systems Incineration System (9 Packages)   | 105<br>105   | 62<br>148   | 5%<br>5%<br>5%  | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A   | 26-Apr-23  | 26-Jul-23<br>15-Mar-23  | 25-Sep-23<br>09-Aug-23  | 238<br>105<br>67  |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620<br>05-3630   | Weighbridge Systems Incineration System (9 Packages) Heat Recovery Boiler (8 Packages)   | 105<br>105<br>105  | 62<br>148<br>227  | 5%<br>5%<br>5%<br>45%   | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A<br>30-Sep-19 A  | 26-Apr-23<br>14-Jul-23   | 26-Jul-23<br>15-Mar-23<br>05-Feb-23<br>31-Jul-23  | 25-Sep-23<br>09-Aug-23<br>19-Sep-23   | 238<br>105<br>67  |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620<br>05-3630<br>05-3790  | Weighbridge Systems Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Flue Gas Treatment System (12 Packages)  | 105<br>105<br>105<br>105<br>105                                    | 62<br>148<br>227<br>10  | 5%<br>5%<br>5%<br>45%<br>25%  | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A<br>30-Sep-19 A<br>31-Oct-19 A   | 26-Apr-23<br>14-Jul-23<br>A 26-Apr-23<br>14-Jul-23   | 26-Jul-23<br>15-Mar-23<br>05-Feb-23<br>31-Jul-23<br>10-Feb-23   | 25-Sep-23<br>09-Aug-23<br>19-Sep-23<br>09-Aug-23<br>24-Sep-23   | 238<br>105<br>67<br>105<br>72   |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620<br>05-3630<br>05-3790<br>05-3800   | Weighbridge Systems Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification   | 105<br>105<br>105<br>105<br>105<br>105                             | 62<br>148<br>227<br>10  | 5%<br>5%<br>5%<br>45%<br>25%<br>70%   | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A<br>30-Sep-19 A<br>31-Oct-19 A<br>09-Jun-20 A  | 26-Apr-23<br>14-Jul-23<br>A 26-Apr-23<br>14-Jul-23<br>29-Jun-23  | 26-Jul-23<br>15-Mar-23<br>05-Feb-23<br>31-Jul-23<br>10-Feb-23<br>09-Aug-23  | 25-Sep-23<br>09-Aug-23<br>19-Sep-23<br>09-Aug-23<br>24-Sep-23<br>09-Aug-23  | 238<br>105<br>67<br>105   |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620<br>05-3630<br>05-3790<br>05-3800<br>05-3820  | Weighbridge Systems Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Air cooled condenser  | 105<br>105<br>105<br>105<br>105<br>105<br>105                      | 62<br>148<br>227<br>10<br>227<br>0  | 5%<br>5%<br>5%<br>45%<br>25%<br>70%<br>5%   | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A<br>30-Sep-19 A<br>31-Oct-19 A<br>09-Jun-20 A<br>30-Jul-20 A   | 26-Apr-23<br>14-Jul-23<br>26-Apr-23<br>14-Jul-23<br>29-Jun-23<br>30-Jun-22 A   | 26-Jul-23<br>15-Mar-23<br>05-Feb-23<br>31-Jul-23<br>10-Feb-23<br>09-Aug-23<br>14-Feb-23   | 25-Sep-23<br>09-Aug-23<br>19-Sep-23<br>09-Aug-23<br>24-Sep-23<br>09-Aug-23<br>14-Feb-23   | 238<br>105<br>67<br>105<br>72<br>42   |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620<br>05-3630<br>05-3790<br>05-3800<br>05-3820<br>05-3830   | Weighbridge Systems Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Air cooled condenser Compressed Air Plants  | 105<br>105<br>105<br>105<br>105<br>105<br>105<br>105               | 62<br>148<br>227<br>10<br>227<br>0<br>0   | 5%<br>5%<br>5%<br>45%<br>25%<br>70%<br>5%   | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A<br>30-Sep-19 A<br>31-Oct-19 A<br>09-Jun-20 A<br>30-Jul-20 A<br>31-Oct-20 A  | 26-Apr-23<br>14-Jul-23<br>26-Apr-23<br>14-Jul-23<br>29-Jun-23<br>30-Jun-22 A<br>15-Jan-23  | 26-Jul-23<br>15-Mar-23<br>05-Feb-23<br>31-Jul-23<br>10-Feb-23<br>09-Aug-23<br>14-Feb-23<br>22-Apr-23  | 25-Sep-23<br>09-Aug-23<br>19-Sep-23<br>09-Aug-23<br>24-Sep-23<br>09-Aug-23<br>14-Feb-23<br>07-Jun-23  | 238<br>105<br>67<br>105<br>72<br>42   |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620<br>05-3630<br>05-3790<br>05-3800<br>05-3820<br>05-3830   | Weighbridge Systems Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Air cooled condenser Compressed Air Plants  Ductworks) and Valves   | 105<br>105<br>105<br>105<br>105<br>105<br>105                      | 62<br>148<br>227<br>10<br>227<br>0  | 5%<br>5%<br>5%<br>45%<br>25%<br>70%<br>5%   | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A<br>30-Sep-19 A<br>31-Oct-19 A<br>09-Jun-20 A<br>30-Jul-20 A<br>31-Oct-20 A  | 26-Apr-23<br>14-Jul-23<br>26-Apr-23<br>14-Jul-23<br>29-Jun-23<br>30-Jun-22 A   | 26-Jul-23<br>15-Mar-23<br>05-Feb-23<br>31-Jul-23<br>10-Feb-23<br>09-Aug-23<br>14-Feb-23   | 25-Sep-23<br>09-Aug-23<br>19-Sep-23<br>09-Aug-23<br>24-Sep-23<br>09-Aug-23<br>14-Feb-23<br>07-Jun-23  | 238<br>105<br>67<br>105<br>72<br>42   |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620<br>05-3630<br>05-3790<br>05-3800<br>05-3820<br>05-3830<br>Process Pipeworks (Incl. I   | Weighbridge Systems Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Air cooled condenser Compressed Air Plants  | 105<br>105<br>105<br>105<br>105<br>105<br>105<br>105               | 62<br>148<br>227<br>10<br>227<br>0<br>0   | 5%<br>5%<br>5%<br>45%<br>25%<br>70%<br>5%<br>5%   | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A<br>30-Sep-19 A<br>31-Oct-19 A<br>09-Jun-20 A<br>30-Jul-20 A<br>31-Oct-20 A<br>29-Feb-20 A   | 26-Apr-23<br>14-Jul-23<br>26-Apr-23<br>14-Jul-23<br>29-Jun-23<br>30-Jun-22 A<br>15-Jan-23  | 26-Jul-23<br>15-Mar-23<br>05-Feb-23<br>31-Jul-23<br>10-Feb-23<br>09-Aug-23<br>14-Feb-23<br>22-Apr-23<br>09-Dec-22   | 25-Sep-23<br>09-Aug-23<br>19-Sep-23<br>09-Aug-23<br>24-Sep-23<br>09-Aug-23<br>14-Feb-23<br>07-Jun-23  | 238<br>105<br>67<br>105<br>72<br>42<br>143  |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620<br>05-3630<br>05-3790<br>05-3800<br>05-3820<br>05-3830<br>Process Pipeworks (Incl. I   | Weighbridge Systems Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Air cooled condenser Compressed Air Plants  Ductworks) and Valves   | 105<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105        | 62<br>148<br>227<br>10<br>227<br>0<br>0<br>47<br>227  | 5%<br>5%<br>5%<br>45%<br>25%<br>70%<br>5%<br>5%   | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A<br>30-Sep-19 A<br>31-Oct-19 A<br>09-Jun-20 A<br>30-Jul-20 A<br>31-Oct-20 A<br>29-Feb-20 A<br>29-Feb-20 A  | 14-Jul-23<br>14-Jul-23<br>26-Apr-23<br>14-Jul-23<br>29-Jun-23<br>30-Jun-22 A<br>15-Jan-23<br>14-Jul-23   | 26-Jul-23<br>15-Mar-23<br>05-Feb-23<br>31-Jul-23<br>10-Feb-23<br>09-Aug-23<br>14-Feb-23<br>22-Apr-23<br>09-Dec-22<br>04-Feb-23  | 25-Sep-23<br>09-Aug-23<br>19-Sep-23<br>09-Aug-23<br>24-Sep-23<br>09-Aug-23<br>14-Feb-23<br>07-Jun-23<br>13-Oct-23<br>18-Sep-23  | 238<br>105<br>67<br>105<br>72<br>42<br>143  |     |                                     | 3  | 0-Jan-23, Weigh   |
| 05-3580<br>05-3610<br>05-3620<br>05-3630<br>05-3790<br>05-3800<br>05-3820<br>05-3830<br>Process Pipeworks (Incl. I<br>05-3840<br>05-4350   | Weighbridge Systems Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Air cooled condenser Compressed Air Plants  Ductworks) and Valves Process island (furnace-boiler-FGC) Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3)  | 105<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105 | 62<br>148<br>227<br>10<br>227<br>0<br>0<br>47<br>227<br>227<br>147  | 5%<br>5%<br>5%<br>45%<br>25%<br>70%<br>5%<br>5%<br>5%   | 30-Mar-22 A<br>28-Feb-19 A<br>31-Jul-19 A<br>30-Sep-19 A<br>31-Oct-19 A<br>09-Jun-20 A<br>30-Jul-20 A<br>31-Oct-20 A<br>29-Feb-20 A<br>28-Feb-21 A  | A 26-Apr-23<br>14-Jul-23<br>A 26-Apr-23<br>14-Jul-23<br>29-Jun-23<br>30-Jun-22 A<br>15-Jan-23<br>A 14-Jul-23<br>A 25-Apr-23  | 26-Jul-23<br>15-Mar-23<br>05-Feb-23<br>31-Jul-23<br>10-Feb-23<br>09-Aug-23<br>14-Feb-23<br>22-Apr-23<br>09-Dec-22<br>04-Feb-23<br>20-May-23   | 25-Sep-23<br>09-Aug-23<br>19-Sep-23<br>09-Aug-23<br>24-Sep-23<br>09-Aug-23<br>14-Feb-23<br>07-Jun-23<br>13-Oct-23<br>13-Oct-23  | 238<br>105<br>67<br>105<br>72<br>42<br>143<br>91<br>66                                      |     |                                     | 15-Jan-23, Com   | 0-Jan-23, Weigh   |
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# 3-Month Rolling Programme (November 2022)

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| KEPPEL SEGMERS - ZMEN HUA (O)   | ACTIVENTURE Activity Name  | Original             | I Rema | aining / | Activity % Current Start      | Current Finish | Late Start | Late Finish | Total Float M60 Remarks | VVaste Managen | 22                   | 1 11400 1                                  | 2023  |
|---|--|----------------------|--------|----------|-------------------------------|----------------|------------|-------------|-------------------------|----------------|----------------------|--|---|
|   |  | Original<br>Duration | n Dur  | ration   | Complete                      |                |            |             |                         | Nov<br>60      | Dec<br>61            | Jan<br>62                                  | Feb<br>63                                     |
| 05-3750   | Lifts and Escalators   | 90                   |        | 90       | 0% 30-Nov-22                  | 27-Feb-23      | 07-Jan-23  | 06-Apr-23   | 38                      | 30-Nov-22      | **                   |  |   |
| General Layout Drawing  | gs and Fire Saftey Strategy (2.3.25)                               | 377                  | 7      | 60       | 31-Jul-21 A                   | 28-Jan-23      | 30-Nov-22  | 08-Jun-23   | 131                     |                |                      |  |   |
| 05-3290   | Process Building & Wastewater Treatment Plant                      | 60                   | )      | 60       | 0% 13-Jun-22                  | A 28-Jan-23    | 10-Apr-23  | 08-Jun-23   | 131                     |                |                      | ,  | 28-Jan-23, Process                            |
| 05-3310   | Turbine Hall Building  | 105                  | 5      | 30       | 25% 29-Dec-21                 | A 29-Dec-22    | 30-Nov-22  | 29-Dec-22   | 0                       |                |                      | Turbine Hall Building, 29                  | Dec-22, 29-Dec-22, Turbir                     |
| 05-3320   | Compressor & CCCW Building   | 105                  | 5      | 30       | 25% 29-Dec-21                 | A 29-Dec-22    | 30-Nov-22  | 29-Dec-22   | 0                       |                |                      | Compressor & CCCW E                        | Building, 29-Dec-22, 29-Dec                   |
| 05-3340   | Elevated Drive Way and Associated Structures                       | 105                  | 5      | 30       | 25% 31-Jul-21 A               | 29-Dec-22      | 30-Nov-22  | 29-Dec-22   | 0                       |                |                      | Elevated Drive Way and                     |   |
| 05-4290   | IWMF Substation (2.8.25)   | 105                  | 5      | 30       | 5% 31-Jul-21 A                |                | 10-Feb-23  | 11-Mar-23   | 72                      |                |                      | 29-Dec-22. IW MF Subs                      |   |
| 05-4800   | IWMF Site Wide Architectural Details                               | 105                  |        | 30       | 5% 20-Nov-21                  | _              | 30-Nov-22  |             | 0                       |                |                      |  | ectural Details, 29-Dec-22,                   |
| DDA Mechanical Treatme  |  | 151                  |        | 90       |                               | A 27-Feb-23    |            |             | 95                      |                |                      |  |   |
| 05-5170   | Foundation design (2.4.13)   | 60                   |        | 32       | 70% 28-Sep-22                 |                |            | 03-Apr-23   | 93                      |                |                      | 31-Dec-22 Foundation                       | n design (2.4.13), Foundation                 |
| 05-5180   | Structural design (2.4.14)   | 60                   | _      | 60       | 0% 29-Sep-22                  |                | 04-Apr-23  | · ·         | 125                     |                |                      |  | 28-Jan-23, Structura                          |
|   | , , , ,  |                      |        | - 1      | ·                             | 27-Feb-23      |            |             |                         |                |                      |  | 20-5411-25, 511401414                         |
| _Building services designates of the services of the | n (excluding fire services installation design) (2.4.18)  MVAC     | 90                   |        | 90       | 0% 30-Nov-22                  |                | 16-Feb-23  |             | 78<br>78                | 20 Nov 22      |                      | <u>}</u>                                   |   |
|   |  |                      | _      |          |                               |                |            | -           |                         | 30-Nov-22      |                      |  |   |
| 05-3910   | Lifts and Escalators   | 90                   |        | 90       | 0% 30-Nov-22                  |                |            |             | 38                      | 30-Nov-22      |                      |  |   |
| DDA Wastewater Treatme  |  | 232                  |        | 144      |                               | 22-Apr-23      |            |             |                         |                |                      |  | 00 Markania d                                 |
| 05-3960   | Mechanical works design (2.5.16) (5 Packages)                      | 232                  |        | 49       | 5% 31-May-22                  |                | 21-Jun-23  |             | 203                     |                |                      | 1/-J                                       | an-23, Mechanical works de                    |
| _   | n (excluding fire services installation design) (2.5.18)           | 90                   |        | 84       |                               | A 22-Apr-23    |            |             | 144                     |                |                      |  |   |
| 05-4000   | Odour Control  | 90                   |        | 84       | 0% 24-Jun-22                  | -              | 22-Jun-23  | -           | 144                     |                |                      |  |   |
| DDA Water Treatment Pla   |  | 267                  |        | 89       |                               | A 26-Feb-23    |            |             |                         |                |                      | <u></u>                                    |   |
| 05-4060   | Foundation design (2.6.13)   | 60                   | _      | 32       | 70% 28-Sep-22                 |                |            | 03-Apr-23   | 93                      |                |                      | 31-Dec-22, Foundation                      | n design (2.6.13), Foundatio                  |
| 05-4070   | Structural design (2.6.14)   | 60                   | )      | 60       | 0% 29-Sep-22                  | A 28-Jan-23    | 04-Apr-23  | 02-Jun-23   | 125                     |                |                      |  | 28-Jan-23, Structura                          |
| 05-4090   | Mechanical works design (2.6.16)                                   | 90                   | )      | 62       | 5% 02-May-22                  | 30-Jan-23      | 07-Feb-24  | 08-Apr-24   | 434                     |                |                      |  | 30-Jan-23, Mechar                             |
| Building services desig   | n (excluding fire services installation design) (2.6.18)           | 90                   | )      | 89       | 29-Jun-22                     | A 26-Feb-23    | 17-Feb-23  | 16-May-23   | 79                      |                |                      |  |   |
| 05-4120   | MVAC   | 90                   | )      | 89       | 0% 29-Jun-22                  | A 26-Feb-23    | 17-Feb-23  | 16-May-23   | 79                      |                |                      |  |   |
| Electrical and instrumer  | ntation works design (2.6.15)                                      | 238                  | 3      | 55       | 11-Apr-22                     | A 23-Jan-23    | 30-Mar-23  | 23-May-23   | 120                     |                |                      |  |   |
| 05-4080   | Water Treatment Plant (WTP) - Variable Speed Drive (2.6.15.01)     | 238                  | 3      | 55       | 5% 11-Apr-22                  | A 23-Jan-23    | 30-Mar-23  | 23-May-23   | 120                     |                |                      |  | 23-Jan-23, Water Treatme                      |
| DDA Administration Build  | lding (2.7)  | 288                  |        | 105      | 28-Apr-22                     | A 14-Mar-23    | 07-Jan-23  | 03-Jul-23   | 111                     |                |                      |  |   |
| 05-4180   | Foundation design (2.7.11)   | 105                  | 5      | 75       | 45% 28-Apr-22                 | A 12-Feb-23    | 20-Apr-23  | 03-Jul-23   | 141                     |                |                      |  | 12-Fe   |
| Buildina services desia   | in (excluding fire services installation design) (2.7.15)          | 105                  |        | 105      | 30-Nov-22                     | 14-Mar-23      | 07-Jan-23  | 16-May-23   | 63                      |                |                      |  |   |
| 05-4220   | Electrical Services and Lighting                                   | 105                  |        | 105      | 0% 30-Nov-22                  | 14-Mar-23      | 01-Feb-23  | 16-May-23   | 63                      | 30-Nov-22      |                      |  |   |
| 05-4280   | Lifts and Escalators   | 90                   | )      | 90       | 0% 30-Nov-22                  |                |            | -           | 38                      | 30-Nov-22      |                      |  |   |
| DA IWMF Substation (2   |  | 213                  |        | 90       |                               | A 27-Feb-23    |            | -           |                         |                |                      |  |   |
| 05-4340   | Fire services installation design (2.8.17)                         | 60                   |        | 60       | 0% 30-Nov-22                  |                | 09-Dec-22  |             | 9                       | 30-Nov-22      |                      |  | 28-Jan-23, Fire servi                         |
|   | In (excluding fire services installation design) (2.8.18)          | 90                   |        | 60       |                               | 28-Jan-23      |            |             |                         |                |                      |  | 20-0411-20, 1 116 36141                       |
| _Building services design<br>05-4990  | Electrical Services and Lighting                                   | 90                   |        | 30       | 5% 01-May-22                  |                |            |             | 150                     |                |                      | 29-Dec-22, Electrical S                    | arvices and Lighting Flectri                  |
|   | • •  | 60                   |        |          |                               |                | · ·        |             | 9                       | 20 New 20      |                      | 23-Dec-22, Liectifical 3                   |   |
| 05-5010   | Plumbing   |                      | -      | 60       | 0% 30-Nov-22                  |                |            | 06-Feb-23   | -                       | 30-Nov-22      |                      |  | 28-Jan-23, Plumbing                           |
| 05-5020   | Drainage   | 60                   |        | 60       | 0% 30-Nov-22                  |                |            | 06-Feb-23   | 9                       | 30-Nov-22      |                      | ·<br>· · · · · · · · · · · · · · · · · · · | 28-Jan-23, Drainage                           |
| 05-5030-1   | Building Management System (BMS)                                   | 60                   |        | 60       | 0% 30-Nov-22                  |                |            | 06-Feb-23   | 9                       | 30-Nov-22      |                      |  | 28-Jan-23, Building I                         |
|   | ntation_works design (2.8.15)                                      | 90                   |        | 30       |                               | A 27-Feb-23    |            |             |                         |                |                      |  |   |
| 2.8.15.06   |  | 90                   |        | 30       |                               | A 27-Feb-23    |            |             | 39                      |                |                      |  | · · · · · · <u>· · · · · · · · · · · · · </u> |
| 05-4320   | Electrical and instrumentation works design (2.8.15.06.01 to 40)   | 90                   |        | 30       | 0% 15-Mar-22                  |                |            | -           | 39                      |                |                      |  |   |
| DDA Air Cool Condenser  |  | 60                   | _      | 60       |                               | 28-Jan-23      |            |             | 11                      |                |                      |  |   |
|   | n (excluding fire services installation design) (2.3.06)           | 60                   |        | 60       |                               | 28-Jan-23      | _          |             | 11                      |                |                      |  | <u></u>                                       |
| 05-5520   | Plumbing   | 60                   |        | 60       | 0% 30-Nov-22                  |                |            |             | 11                      | 30-Nov-22      |                      |  | 28-Jan-23, Plumbing                           |
| DDA Chimney   |  | 91                   |        | 90       |                               | A 27-Feb-23    |            |             |                         |                |                      |  |   |
| 05-5370   | Structural Design  | 90                   | )      | 90       | 5% 14-Mar-22                  |                |            |             | 146                     |                |                      |  |   |
|   | n (excluding fire services installation design)                    | 90                   |        | 60       |                               | A 28-Jan-23    |            |             |                         |                |                      |  |   |
| 05-6050-1(5a)   | Lift   | 90                   | )      | 60       | 0% 29-Jun-22                  |                |            |             | 68                      |                |                      |  | 28-Jan-23, Lift, Lift,                        |
| DA Elevated Drive Way   | and Associated Structures Foundation                               | 189                  | )      | 189      | 29-Dec-21                     | A 06-Jun-23    | 14-Mar-23  | 18-Sep-23   |                         |                |                      |  |   |
| 05-5380   | Structural Design  | 189                  | )      | 189      | 5% 29-Dec-21                  | A 06-Jun-23    | 14-Mar-23  | 18-Sep-23   | 104                     |                |                      |  |   |
| DA Reception Pavilion   |  | 120                  | )      | 60       | 08-May-20                     | 28-Jan-23      | 30-Apr-23  | 03-Nov-23   | 279                     |                |                      |  |   |
| 5-3280  | Foundation Design  | 90                   | )      | 60       | 5% 09-Apr-21                  | A 28-Jan-23    | 05-Sep-23  | 03-Nov-23   | 279                     |                |                      |  | 28-Jan-23, Foundat                            |
| 5-5390  | Structural Design  | 105                  | 5      | 60       | 5% 08-May-20                  | 28-Jan-23      | 30-Apr-23  | 28-Jun-23   | 151                     |                |                      |  | 28-Jan-23, Structur                           |
| DA Roads and Utilities  | (2.10)   | 484                  |        | 150      | 13-Jan-21                     | A 28-Apr-23    | 02-Dec-22  | 26-Dec-24   | 608                     |                |                      |  |   |
|   | e Artificial Island (2.10.14)                                      | 122                  | _      | 60       |                               | A 28-Jan-23    |            |             | 698                     |                |                      |  |   |
| 05-4440-1(M55)  | Ship-to-shore Sewage Transfer System for IWMF Vessels (Caisson 13) | 90                   | )      | 4        | 45% 13-Jan-22                 | A 03-Dec-22    | 23-Dec-24  | 26-Dec-24   | 754                     |                | 3-Dec-22, Ship-to-sh | ore Sewage Transfer System                 | for IWMF Vessels (Caiss                       |
| 05-4440-2(M55)  | Ship-to-shore Sewage Transfer System for Passenger Ferry           | 90                   |        | 60       | 45% 13-Jan-21                 |                |            | 08-Jun-23   | 131                     |                |                      |  | 28-Jan-23, Ship-to-                           |
| . ,   | n on the Artificial Island (210.15)                                | 105                  |        | 60       |                               | A 28-Jan-23    |            |             |                         |                | <del></del>          | ····                                       |   |
| 05-5320   | First Flush Drainage System concept                                | 105                  |        | 60       | 45% 31-Dec-21                 |                | 04-Aug-23  | _           | 247                     |                |                      |  | 28-Jan-23, First Flu                          |
|   | esign on the Artificial Island (2.10.16)                           | 241                  |        | 150      |                               | A 28-Apr-23    |            |             |                         |                |                      |  |   |
| 05-5290   | Water Tanks  | 90                   | _      | 90       | 0% 29-Jan-23                  |                |            |             | <del> </del>            |                |                      | 29-Jan-                                    | 23  |
| 05-5300   | External FS Systems  | 90                   | _      | 90       | 0% 30-Nov-22                  | <u> </u>       |            |             | 9                       | 30-Nov-22      |                      | 20-0411                                    |   |
|   | ·  |                      | _      |          |                               |                |            |             | -                       | 3U-1NUV-22     |                      |  | 30.5  |
| 05-5300-1(M24)  | E&M system for seawater intake (2.10.16.07)                        | 105                  |        | 75       | 5% 04-Apr-22                  |                |            |             | 264                     |                |                      |  | 12-F  |
|   | cation and other utilities (2.10.18)                               | 217                  |        | 95       |                               | 04-Mar-23      |            |             | 192                     |                |                      |  |   |
|   | Computerised Maintenance Management System (CMMS) (2.10.18.10)     | 105                  | )      | 30       | 80% 24-May-22                 |                |            | 31-Dec-22   | 2                       |                |                      | 29-Dec-22, Computeris                      | ed Maintenance Manageme                       |
| 05-3400 (M21)   |  |                      |        |          |                               | 100 1 00       | 145 1.100  | 10 0 00     | 227                     |                |                      |  | 28-Jan-23, Informati                          |
| 05-3400 (M21)<br>05-3410 (M21)  | Information and Document Management System (IDMS) (2.10.18.11)     | 105                  | _      | 60       | 45% 10-May-22                 | 28-Jan-23      | 15-Jul-23  | -           |                         |                |                      |  | 20-0411-25, 11101111411                       |
| 05-3400 (M21)   |  | 105                  | _      | 90       | 45% 10-May-22<br>0% 30-Nov-22 |                |            | 07-May-23   | 69                      | 30-Nov-22      |                      |  | 20-341-23, 1110/11141                         |
| 05-3400 (M21)<br>05-3410 (M21)  | Information and Document Management System (IDMS) (2.10.18.11)     |                      | )      |          | -                             | 27-Feb-23      |            | 07-May-23   |                         | 30-Nov-22      |                      |  | 12-F  |

# 3-Month Rolling Programme (November 2022)

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|                                   |   | Original<br>Duration | Remaining<br>Duration | Activity % Current Start Complete |           |           |           |     |             | Nov<br>60  | Dec<br>61                | Jan<br>62                                  | Feb<br>63                              |
|-----------------------------------|---|----------------------|-----------------------|-----------------------------------|-----------|-----------|-----------|-----|-------------|------------|--------------------------|--|--|
| 05-4630                           | Site ELV Network System - Navigation aids concept / schematics  | 90                   | 90                    | 0% 05-Dec-22                      | 04-Mar-23 | 09-Dec-22 | 08-Mar-23 | 4   |             | 05-Dec-    |                          |  |  |
| 05-4640                           | Microwave transmission of FS direct link  | 105                  | 35                    | 5% 22-Aug-22 A                    | 03-Jan-23 | 29-Dec-22 | 01-Feb-23 | 29  |             |            |                          | 03-Jan-23, Microway                        | e transmission of FS dire              |
| DDA Architectural, Finishe        | es and Landscaping Works (2.11)   | 333                  | 105                   | 07-Apr-22 A                       | 14-Mar-23 | 01-Dec-22 | 17-Dec-23 | 278 |             |            |                          | [  |  |
| External and internal fini        | shes design   | 120                  | 90                    | 10-Aug-22 A                       | 27-Feb-23 | 01-Dec-22 | 18-Oct-23 | 233 |             |            |                          |  |  |
| 05-4670                           | External and internal finishes design for Incineration Plant Building (2.11.15)                         | 90                   | 90                    | 5% 19-Sep-22 A                    | 27-Feb-23 | 21-Jul-23 | 18-Oct-23 | 233 |             |            |                          |  |  |
| 05-4690                           | External and internal finishes design for Turbine Hall Building   | 90                   | 9                     | 5% 10-Aug-22 A                    | 08-Dec-22 | 28-Feb-23 | 08-Mar-23 | 90  |             |            | 08-Dec-22, Externa       | l and internal finishes design             | for Turbine Hall Building              |
| 05-4700                           | External and internal finishes design for CCCW Building   | 90                   | 9                     | 5% 10-Aug-22 A                    | 08-Dec-22 | 10-Oct-23 | 18-Oct-23 | 314 |             |            | 08-Dec-22, Externa       | l and internal finishes design             | for CCCW Building, Ext                 |
| 05-4710                           | External and internal finishes design for Chimney   | 90                   | 62                    | 5% 02-Sep-22 A                    | 30-Jan-23 | 27-Jul-23 | 26-Sep-23 | 239 |             |            |                          |  | 30-Jan-23, Externa                     |
| 05-4740                           | External and internal finishes design for the Wastewater Treatment Plant (2.11.17)                      | 90                   | 30                    | 5% 19-Sep-22 A                    | 29-Dec-22 | 19-Sep-23 | 18-Oct-23 | 293 |             |            |                          | l 29-Dec-22, External and ir               | ternal finishes design for             |
| 05-4770                           | External and internal finishes design for the IWMF Substation (2.11.20)                                 | 90                   | 9                     | 5% 10-Aug-22 A                    | 08-Dec-22 | 01-Dec-22 | 09-Dec-22 | 1   |             |            | 08-Dec-22, Externa       | I and internal finishes design             | for the IWMF Substation                |
| Landscaping Works (2.11           |   | 105                  | 105                   |                                   |           | 08-Mar-23 | 20-Jun-23 | 98  |             |            |                          |  |  |
| 05-4780-1(6C)                     | Landscape Architectural Design for Turbine Hall Building (2.11.19.04)                                   | 105                  | 105                   | 5% 29-Jun-22 A                    | 14-Mar-23 | 08-Mar-23 | 20-Jun-23 | 98  |             |            |                          |  |  |
| 05-4780-5(6C)                     | Landscape Architectural Design for IWMF Substation (2.11.07.10)   | 105                  | 105                   | 5% 11-Jul-22 A                    | 14-Mar-23 | 08-Mar-23 | 20-Jun-23 | 98  |             |            |                          |  |  |
| 05-4780-6(6C)                     | Landscape Architectural Design for Process Building (2.11.07.11)  | 105                  | 105                   | 5% 10-Aug-22 A                    | 14-Mar-23 | 08-Mar-23 | 20-Jun-23 | 98  |             |            |                          |  |  |
| Facade Structural Design          |   | 244                  | 90                    | 07-Apr-22 A                       | 27-Feb-23 | 15-Dec-22 | 17-Dec-23 | 293 |             |            |                          | ;  |  |
| 05-8010(M45)                      | IW MF Sub-station   | 90                   | 90                    |                                   |           | 15-Dec-22 |           | 15  |             | 30-Nov-22  |                          | ·  |  |
| 05-8020(6D)                       | Process Building & Wastewater Treatment Plant (2.6.14.01)   | 90                   | 60                    |                                   |           |           | 17-Dec-23 | 323 |             |            |                          |  | 28-Jan-23. Process                     |
| DDA Testing and Commiss           | , ,   | 260                  | 182                   |                                   |           |           |           | 237 |             |            |                          | 1  |  |
| 05-4810                           | Factory Acceptance Testing plan (2.12.09.01)  | 90                   | 90                    |                                   |           | 10-Dec-22 |           | 10  |             | 30-Nov-22  |                          |  |  |
| 05-4810-1(5a)                     | Factory Acc eptance Testing plan (2.12.09.02-07) (8 Packages)   | 90                   | 122                   | 5% 13-Jun-22 A                    | 30-May-23 | 23-Sep-23 | 22-Jan-24 | 237 |             |            |                          | : <del> </del>                             |  |
| 05-4810-2(M55)                    | FAT of DCS - Software SIL FAT Plant for Process Island (2.12.09.03.01)                                  | 105                  | 10                    |                                   | -         | 09-Nov-23 |           | 344 |             |            | 09-Dec-22, FAT of        | D¢S - Software SIL FAT Pla                 | int for Process Island (2.             |
| . , ,                             | ities for the Operation (2.13)  | 341                  | 183                   | -                                 |           |           |           | 33  |             |            |                          |  | ······································ |
| 05-4850                           | Design of vehicles for MSW and Ash and Residues delivery (2.13.05)                                      | 341                  | 146                   |                                   |           | 08-Feb-23 |           | 33  |             |            |                          |  |  |
| 05-4860                           | Design of marine vessels for the use of the Employer and visitors (2.13.06)                             | 183                  | 183                   |                                   | -         |           |           | 33  |             | 30-Nov-22  |                          |  |  |
| DDA Auxiliary Plant Syste         |   | 289                  | 196                   |                                   |           |           |           | 38  |             |            |                          |  |  |
| 05-4940-2(5a)                     | Hoisting systems (2.16.10)  | 196                  | 196                   |                                   |           | 02-Dec-22 |           | 2   |             | 30-Nov-22  |                          |  |  |
| 05-4940-3(6E)                     | EOTC System (2.16.11)   | 90                   | 106                   |                                   |           | 06-Apr-23 |           | 128 |             |            |                          |  |  |
|                                   |   | 1000                 | 360                   |                                   |           | 02-Oct-22 |           | 133 |             |            |                          |  |  |
| rocurement of Majo                |   |                      |                       |                                   |           |           |           |     |             |            |                          |  |  |
| Off-site Fabrication of I         | ncineration Modules   | 825                  | 185                   | 1 1 1                             |           | 02-Oct-22 |           | 8   |             |            |                          |  |  |
| Material Procurement              |   | 606                  | 60                    |                                   |           | 22-Feb-23 |           | 84  |             |            |                          |  |  |
| 06-1000-1(1)                      | Mechanical Equipment Material Submission and Approval   | 180                  | 0                     | · ·                               | -         |           |           |     |             |            |                          |  | <u></u>                                |
| 06-1000-3(1)                      | Electrical and Instrumentation Material Submission and Approval   | 180                  | 60                    |                                   |           | 22-Feb-23 |           | 84  |             |            |                          |  | 28-Jan-23, Electrica                   |
| Fabrication of Module (TP         | PU)   | 703                  | 185                   |                                   |           |           |           | -42 |             |            |                          |  |  |
| PFab 1- Line 1                    |   | 367                  | 84                    |                                   |           |           | 24-Dec-22 | -59 |             |            |                          |  |  |
| Mechanical Erection               | PEriod Line 4 Machanical Installation And Floor (Polary F) 20 47 p.) (Installation Combustion Costs)    | 251                  | 29                    |                                   |           | 02-Oct-22 | 10-Nov-22 | -48 |             |            | DE-balle-an              | in the section of the section of the first | " (D-I EL 00 47) (                     |
| 06-TPU-1-1100                     | PFab 1-Line 1 Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)         | 80                   | 12                    |                                   |           | 30-Oct-22 | 10-Nov-22 | -31 |             |            |                          | lechanical Installation - 1st F            |  |
| 06-TPU-1-1110                     | PFab 1-Line 1 Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator)              | 80                   | 21                    |                                   |           | 21-Oct-22 | 10-Nov-22 | -40 |             |            |                          | -Line 1 Mechanical Installati              |  |
| ■ 06-TPU-1-1120                   | PFab 1-Line 1 Mechanical Installation - 3rd Floor( EL26.72m~EL37.72m) ( Including Boiler Ash Transport) | 80                   | 24                    |                                   |           | 18-Oct-22 | 10-Nov-22 | -43 |             |            |                          | b 1-Line 1 Mechanical Instal               |  |
| ■ 06-TPU-1-1130                   | PFab 1-Line 1 Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)              | 80                   | 29                    |                                   |           | 13-Oct-22 | 10-Nov-22 | -48 |             |            |                          | PFab 1-Line 1 Mechanical                   |  |
| ■ 06-TPU-1-1250                   | PFab 1-Line 1 Mechanical Installation - Boiler Lifting & Installation                                   | 80                   | 10                    | 87.5% 24-Jun-22 A                 | 09-Dec-22 | 02-Oct-22 | 11-Oct-22 | -59 |             |            | PFab 1-Line 1 Med        | chánical Installation - Boiler             | Lifting & Installation, 09-            |
| Piping Installation               |   | 150                  | 15                    |                                   |           | 02-Oct-22 | 16-Oct-22 | -59 |             |            |                          |  |  |
| ■ 06-TPU-1-1000                   | PFab 1-Line 1 - Piping installation   | 150                  | 15                    |                                   |           | 02-Oct-22 | 16-Oct-22 | -59 |             |            | PFab 1-Line              | 1 - Piping installation, 14-De             | c-22, 14-Dec-22, PFab 1                |
| E&I Fabrication                   |   | 180                  | 3                     | 14-Apr-22 A                       |           | 02-Oct-22 |           | -59 |             |            | <u></u>                  |  |  |
| ■ 06-TPU-1-1230                   | PFab 1-Line 1 - E&I Fabrication   | 180                  | 3                     |                                   |           | 02-Oct-22 |           | -59 |             |            | PFab 1-Line 1 - E&I Fabr | cation, 02-Dec-22, 02-Dec-2                | 2, PFab 1-Line 1 - E&I F               |
| E&I Installation                  |   | 101                  | 40                    |                                   |           | 02-Oct-22 |           | -59 |             |            |                          |  |  |
| ■ 06-TPU-1-1260                   | PFab 1-Line 1 - E&I Support Installation  | 45                   |                       | 75.56% 09-Sep-22 A                |           | 02-Oct-22 |           | -59 |             |            |                          | & Support Installation, 10-D               |  |
| ■ 06-TPU-1-1270                   | PFab 1-Line 1 - E&I Cable Ladder Erection   | 30                   | 2                     | 93.33% 17-Oct-22 A                | 17-Dec-22 | 18-Oct-22 | 19-Oct-22 | -59 |             |            | PFab 1-Li                | ne 1 - E&I Cable Ladder Ere                | ction, 17-Dec-22, 17-Dec               |
| <b>Electrical</b>                 |   | 64                   | 38                    |                                   |           | 02-Oct-22 | 08-Nov-22 | -59 |             |            |                          |  |  |
| ■ 06-TPU-1-1280                   | PFab 1-Line 1 - Electrical Cable Pulling and Termination  | 30                   | 30                    | 0% 08-Dec-22                      | 06-Jan-23 | 10-Oct-22 | 08-Nov-22 | -59 |             | 08-De      | ec-22                    | 06-Jan-23, PFab                            | I-Line 1 - Electrical Cab              |
| ■ 06-TPU-1-1290                   | PFab 1-Line 1 - Electrical Equipment Installation   | 26                   | 26                    | 0% 05-Dec-22*                     | 30-Dec-22 | 07-Oct-22 | 01-Nov-22 | -59 |             | 05-Dec-2   | 22*                      | 06-Jan-23, PFab                            | I - Electrical Equipment               |
| ■ 06-TPU-1-1300                   | PFab 1-Line 1 - Electrical Heat Tracing Installation  | 26                   | 6                     | 76.92% 04-Nov-22 A                | 29-Dec-22 | 26-Oct-22 | 31-Oct-22 | -59 |             |            | 22*                      | Fab 1-Line 1 - Electrical                  | Heat Tracing Installation              |
| ■ 06-TPU-1-1340                   | PFab 1-Line 1 - MCC room installation   | 25                   | 10                    | 60% 05-Nov-22 A                   | 09-Dec-22 | 02-Oct-22 | 11-Oct-22 | -59 | Α           |            | PFab 1-Line 1 - M        | CC room installation, 09-Dec               | -22, 09-Dec-22, PFab 1-                |
| Instrument                        |   | 45                   | 30                    | 25-Nov-22 A                       | 08-Jan-23 | 12-Oct-22 | 10-Nov-22 | -59 |             |            |                          |  |  |
| ■ 06-TPU-1-1310                   | PFab 1-Line 1 - Instrument Cable Pulling and Termination  | 30                   | 30                    | 0% 10-Dec-22                      | 08-Jan-23 | 12-Oct-22 | 10-Nov-22 | -59 |             |            |                          | 08-Jan-23, PFa                             | o 1-Line 1 - Instrument C              |
| ■ 06-TPU-1-1320                   | PFab 1-Line 1 - Instrument Equipment Installation   | 26                   | 9                     | 65.38% 25-Nov-22 A                | 20-Dec-22 | 14-Oct-22 | 22-Oct-22 | -59 | lov-22 A, 2 | 5-Nov-22 A | PFab 1                   | -Line 1 - Instrument Equipm                | ent Installation, 20-Dec-2             |
| ■ 06-TPU-1-1330                   | PFab 1-Line 1 - Instrument Tubing Installation  | 26                   | 26                    | 0% 12-Dec-22                      | 06-Jan-23 | 14-Oct-22 | 08-Nov-22 | -59 |             | 1          | 2-Dec-22                 | 06-Jan-23, PFab                            | I-Line 1 - Instrument Tub              |
| Insulation                        |   | 150                  | 40                    | 23-May-22                         | 08-Jan-23 | 02-Oct-22 | 10-Nov-22 | -59 |             |            |                          |  |  |
| 06-TPU-1-1020                     | PFab 1-Line 1 - Insulation  | 150                  | 40                    | 73.33% 23-May-22                  | 08-Jan-23 | 02-Oct-22 | 10-Nov-22 | -59 |             |            |                          | PFab 1-Line 1 -                            | Insulation, 08-Jan-23, 0               |
| Precommissioning                  |   | 30                   | 30                    | 24-Dec-22                         | 22-Jan-23 | 26-Oct-22 | 24-Nov-22 | -59 |             |            |                          |  |  |
| 06-TPU-1-1030                     | PFab 1-Line 1 - Pre-commissioning   | 30                   | 30                    |                                   |           | 26-Oct-22 |           | -59 |             |            | 24-Dec-22                | 2  | 2-Jan-23, PFab 1-Line 1                |
| Load out & Shipping               |   | 20                   | 20                    | 23-Jan-23                         | 11-Feb-23 | 25-Nov-22 | 14-Dec-22 | -59 |             |            |                          |  |  |
| 06-TPU-1-1040                     | PFab 1-Line 1 - Load out & ready to ship  | 20                   | 20                    |                                   |           | 25-Nov-22 |           | -59 |             |            |                          | 23-Jan-23                                  | 11-Fe                                  |
| Delivery                          |   | 10                   | 10                    |                                   |           | 15-Dec-22 |           | -59 |             |            |                          |  |  |
| 06-TPU-1-1350                     | PFab 1-Line 1 - Delivery  | 10                   | 10                    |                                   |           | 15-Dec-22 |           | -59 |             |            |                          | · · · · · · · · · · · · · · · · · · ·      | 12-Feb-23                              |
| PFab 1- Line 2                    |   | 371                  | 89                    |                                   |           |           |           |     |             |            |                          | !  |  |
|                                   |   | 242                  | 21                    |                                   |           | 03-Oct-22 |           | -48 |             |            |                          |  |  |
| Mechanical Erection               |   |                      |                       |                                   |           |           |           |     |             |            |                          |  |  |
| Mechanical Erection 06-TPU-2-1120 | PFab 1-Line 2 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)       | 80                   | 11                    | 86.25% 04-Feb-22 A                | 10-Dec-22 | 23-Oct-22 |           | -38 |             |            | PFab 1-Line 2 - N        | lechanical Installation - 1st F            | Floor (Below EL20.47m)                 |

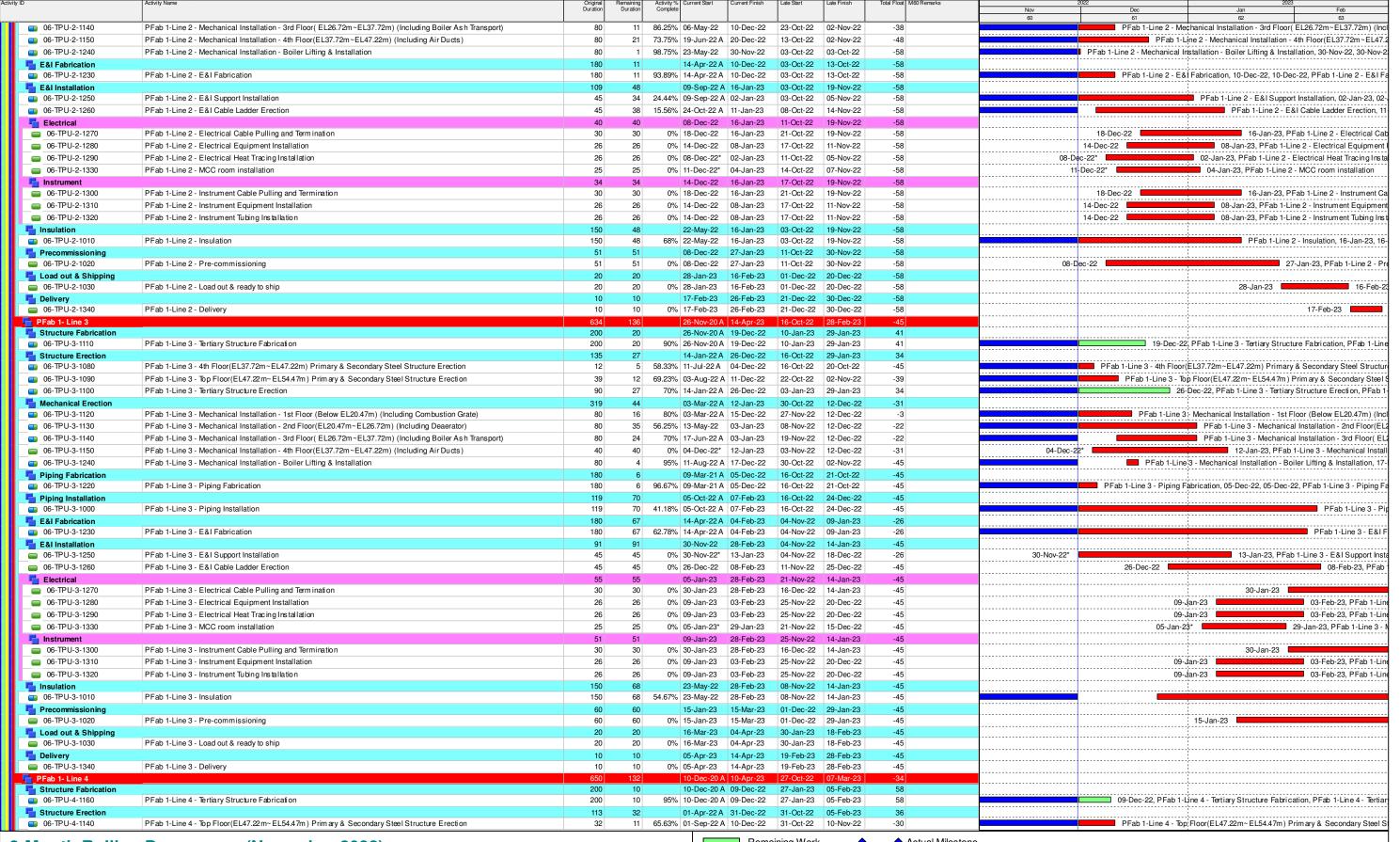
# **3-Month Rolling Programme (November 2022)**

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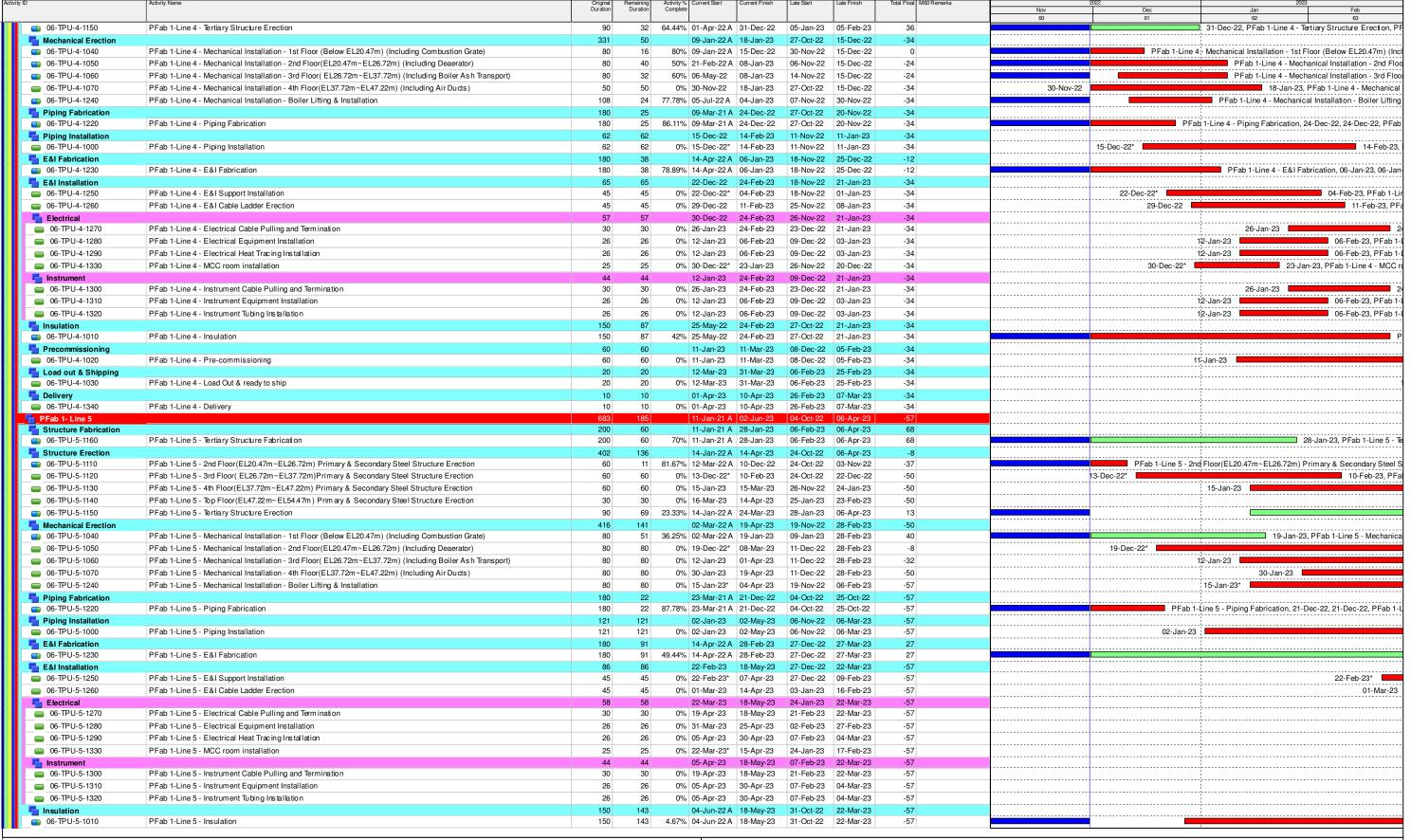
## **3-Month Rolling Programme (November 2022)**

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## 3-Month Rolling Programme (November 2022)

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| KEPPEL SEGHERS - ZHEN HUAJOINT V  | Activity Name  | Original                         | Remainir                   | ng Activi                                | ty % Current Start   | Current Finish   | Late Start   | Late Finish   | Total Float M60 Remarks         | 2022 2023  |
|---|--|----------------------------------|----------------------------|--|--|--|--|---|---------------------------------|--|
|   |  | Duration                         | Duratio                    | on Comp                                  | plete  |  |  |   |                                 | Nov         Dec         Jan         Feb           60         61         62         63                |
| Precommissioning  |  | 60                               | 6                          | 0  | 04-Apr-2   | 3 02-Jun-23  | 06-Feb-23  | 06-Apr-23   | -57                             |  |
| 06-TPU-5-1020   | PFab 1-Line 5 - Pre-commissioning  | 60                               | 6                          | 0 (                                      | 0% 04-Apr-2  | 3 02-Jun-23  | 06-Feb-23  | 06-Apr-23   | -57                             |  |
| PFab 1- Line 6  |  | 662                              |                            | 4  | _  | 1 A 12-May-23  |  | 21-Apr-23   | -21                             |  |
| Structure Fabrication   |  | 169                              |                            | 7  |  | 21 A 16-Dec-22   |  | 21-Apr-23   | 126                             |  |
| 06-TPU-6-1060   | PFab 1-Line 6 - Tertiary Structure Fabrication   | 169                              |                            |  |  | 21 A 16-Dec-22   | <u> </u>   | 21-Apr-23   | 126                             | 16-Dec-22, PFab 1-Line 6 - Tertiary Structure Fabrication, PFab                                      |
| Structure Erection  |  | 302                              |                            | 9  |  | 2 A 27-Jan-23  |  | 13-Apr-23   | 76                              |  |
| 06-TPU-6-1110   | PFab 1-Line 6 - 2nd Floor(EL20.47m~EL26.72m) Primary & Secondary Steel Structure Erection  | 60                               |                            |  |  | 2 A 01-Dec-22  |  | 03-Dec-22   | 2                               | 01-Dec-22, PFab 1-Line 6 - 2nd Floor(EL20.47m~EL26.72m) Primary & Secon                              |
| 06-TPU-6-1120   | PFab 1-Line 6 - 3rd Floor( EL26.72m~EL37.72m)Primary & Secondary Steel Structure Erection  | 45                               |                            | 0 10                                     | 0% 24-Jun-2  | 2 A 12-Dec-22  | 13-Dec-22  | 13-Dec-22   | 2                               | I 12-Dec-22, PFab 1-Line 6 - 3rd Floor( EL26.72m~EL37.72m)Prima                                      |
| 06-TPU-6-1130   | PFab 1-Line 6 - 4th Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection  | 30                               | 1                          | 3 56.6                                   | 7% 02-Sep-2  | 22 A 25-Dec-22   | 15-Dec-22  | 27-Dec-22   | 2                               | 25-Dec-22, PFab 1-Line 6 - 4th Floor(EL37.72m~EL47   |
| 06-TPU-6-1140   | PFab 1-Line 6 - Top Floor(EL47.22m~ EL54.47m) Prim ary & Secondary Steel Structure Erection  | 30                               | 3                          | 0 (                                      | 0% 26-Dec-2  | 22 24-Jan-23   | 28-Dec-22  | 26-Jan-23   | 2                               | 26-Dec-22 24-Jan-23, PFab 1-Line   |
| 06-TPU-6-1150   | PFab 1-Line 6 - Tertiary Structure Erection  | 144                              | 5                          | 9 59.0                                   | 3% 15-Apr-2  | 2 A 27-Jan-23  | 14-Feb-23  | 13-Apr-23   | 76                              | 27-Jan-23. PFab 1-L  |
| Mechanical Erection   |  | 366                              | 9                          | 8  | 03-Mar-2   | 2 A 07-Mar-23  | 12-Nov-22  | 11-Feb-23   | -24                             |  |
| 06-TPU-6-1160   | PFab 1-Line 6 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)  | 80                               | 2                          | 8 6                                      | 5% 03-Mar-2  | 2 A 27-Dec-22  | 21-Dec-22  | 17-Jan-23   | 21                              | 27-Dec-22, PFab 1-Line 6 - Mechanical Installation   |
| 06-TPU-6-1170   | PFab 1-Line 6 - Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator)   | 80                               | 5                          | 3 33.7                                   | 5% 20-May-2  | 22 21-Jan-23   | 21-Dec-22  | 11-Feb-23   | 21                              | 21-Jan-23, PFab 1-Line 6   |
| 06-TPU-6-1180   | PFab 1-Line 6 - Mechanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport)   | 80                               |                            |  | -  | 22 A 24-Dec-22   |  | 14-Jan-23   | 21                              | 24-Déc-22, PFab 1-Line 6 - Mechanical Installation - 3r  |
| 06-TPU-6-1190   | PFab 1-Line 6 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)   | 80                               |                            |  | -  | 2* 28-Feb-23   |  |   | -29                             | 11-Dec-22*   |
|   | , , , ,  | 80                               |                            |  |  |  |  |   |                                 |  |
| 06-TPU-6-1240   | PFab 1-Line 6 - Mechanical Installation - Boiler Lifting & Installation  |                                  |                            |  |  | 2 A 07-Mar-23  |  | 06-Feb-23   | -29                             | 5-Nov-22 A   |
| Piping Fabrication  |  | 180                              |                            | 2  |  | 1 A 21-Dec-22  |  |   | -29                             |  |
| 06-TPU-6-1220   | PFab 1-Line 6 - Piping Fabrication   | 180                              |                            | -  |  | 1 A 21-Dec-22  |  | 22-Nov-22   | -29                             | PFab 1-Line 6 - Piping Fabrication, 21-Dec-22, 21-Dec-22   |
| Piping Installation   |  | 90                               |                            | 0  | 11-Jan-20  |  |  | 12-Mar-23   | -29                             |  |
| 06-TPU-6-1000   | PFab 1-Line 6 - Piping Installation  | 90                               | 9                          | 0 (                                      | 0% 11-Jan-23   | 3 10-Apr-23  | 13-Dec-22  | 12-Mar-23   | -29                             | 11-Jan-23  |
| E&I Fabrication   |  | 180                              | 12                         | 4  | 14-Apr-2   | 2 A 02-Apr-23  | 06-Nov-22  | 09-Mar-23   | -24                             |  |
| 06-TPU-6-1230   | PFab 1-Line 6 - E&I Fabrication  | 180                              | 12                         | 4 31.1                                   | 1% 14-Apr-2  | 2 A 02-Apr-23  | 06-Nov-22  | 09-Mar-23   | -24                             |  |
| &I Installation   |  | 52                               | 5                          | 2  | 22-Feb-2   | 3 14-Apr-23  | 24-Jan-23  | 16-Mar-23   | -29                             |  |
| 06-TPU-6-1250   | PFab 1-Line 6 - E&I Support Installation   | 45                               | 4                          | 5 (                                      | 0% 22-Feb-2  | 3* 07-Apr-23   | 24-Jan-23  | 09-Mar-23   | -29                             | 22-Feb-23  |
| 06-TPU-6-1260   | PFab 1-Line 6 - E&I Cable Ladder Erection  | 45                               | 4                          | 5 (                                      | 0% 01-Mar-2  | 3 14-Apr-23  | 31-Jan-23  | 16-Mar-23   | -29                             | 0.   |
| Electrical  |  | 44                               | 4                          | 4  | 25-Feb-2   | 3 09-Apr-23  |  |   | -29                             |  |
| 06-TPU-6-1280   | PFab 1-Line 6 - Electrical Equipment Installation  | 26                               |                            | *  | 0% 15-Mar-2  |  |  |   | -29                             |  |
| 06-TPU-6-1290   | PFab 1-Line 6 - Electrical Heat Tracing Installation   | 26                               |                            |  | 0% 15-Mar-2  |  |  |   | -29                             |  |
|   | ·  |                                  |                            | -  |  | ·  |  |   | -                               | OF F-I   |
| 06-TPU-6-1330   | PFab 1-Line 6 - MCC room installation  | 25                               |                            |  |  | 3* 21-Mar-23   |  |   | -29                             | 25-Feb   |
| Instrument  |  | 26                               |                            | 6  | 15-Mar-2   |  |  |   | -29                             |  |
| 06-TPU-6-1310   | PFab 1-Line 6 - Instrument Equipment Installation  | 26                               |                            | 6 (                                      | 0% 15-Mar-2  | 3 09-Apr-23  |  |   | -29                             |  |
| 06-TPU-6-1320   | PFab 1-Line 6 - Instrument Tubing Installation   | 26                               | 2                          | 6 (                                      | 0% 15-Mar-2  | 3 09-Apr-23  | 14-Feb-23  | 11-Mar-23   | -29                             |  |
| nsulation   |  | 150                              | 14                         | 7  | 08-Jul-22  | 2A 27-Apr-23   | 03-Nov-22  | 29-Mar-23   | -29                             |  |
| 06-TPU-6-1010   | PFab 1-Line 6 - Insulation   | 150                              | 14                         | 7 :                                      | 2% 08-Jul-22   | 2A 27-Apr-23   | 03-Nov-22  | 29-Mar-23   | -29                             |  |
| Precommissioning  |  | 60                               | 6                          | 0  | 14-Mar-2   | 3 12-May-23  | 13-Feb-23  | 13-Apr-23   | -29                             |  |
| 06-TPU-6-1020   | PFab 1-Line 6 - Pre-commissioning  | 60                               | 6                          | 0 (                                      | 0% 14-Mar-2  | 3 12-May-23  | 13-Feb-23  | 13-Apr-23   | -29                             |  |
| brication of Module (FGC  |  | 668                              | 15                         | 0  | 11-Dec-2   | 0 A 28-Apr-23  | 14-Oct-22  | 10-Jun-23   | 43                              |  |
| Fab 2 - Line 1  |  | 614                              | 11                         | 6  | 29-May-2   | 21 25-Mar-23   | 14-Oct-22  | 06-Feb-23   | -47                             |  |
| Structure Fabrication   |  | 188                              | 1                          | 2  | 31-Mar-2   | 2 A 11-Dec-22  | 16-Jan-23  | 27-Jan-23   | 47                              |  |
| 06-FGC-1-1110   | PFab 2-Line 1 - Tertiary Structure Fabrication   | 188                              | 1                          | 2 93.6                                   | 2% 31-Mar-2  | 2 A 11-Dec-22  | 16-Jan-23  | 27-Jan-23   | 47                              | 11-Dec-22, PFab 2-Line 1 - Tertiary Structure Fabrication, PFab 2-Lin                                |
| Structure Erection  |  | 104                              | 4                          | 0  | 01-Sep-2   | 22 A 08-Jan-23   | 29-Dec-22  | 06-Feb-23   | 29                              |  |
| 06-FGC-1-1050   | PFab 2-Line 1 - Top Floor Primary & Secondary Steel Structure Erection   | 60                               | 3                          | 0 50                                     | 0% 13-Sep-2  | 22 A 29-Dec-22   | 29-Dec-22  | 27-Jan-23   | 29                              | 29-Dec-22, PFab 2-Line 1 - Top Floor Primary & S   |
| 06-FGC-1-1060   | PFab 2-Line 1 - Tertiary Structure Erection  | 80                               | 1                          |  |  | 22 A 08-Jan-23   |  |   | 29                              | 08-Jan-23, PFab 2-Line 1 - Tertiary Stru   |
| Mechanical Erection   | as 2 Line State of Election.   | 256                              |                            |  |  | 2 A 02-Jan-23  |  |   | -47                             |  |
| 06-FGC-1-1070   | PFab 2-Line 1 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)   | 60                               |                            |  |  | 2 A 04-Dec-22  |  | 16-Nov-22   | -18                             | PFab 2-Line 1 - 1st Floor (Below EL12.47m) (Including Silencer ID fan), 04-                          |
|   | , , , , ,  |                                  |                            | _  |  |  |  |   |                                 |  |
| 06-FGC-1-1080   | PFab 2-Line 1 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)  | 60                               |                            |  |  | 2 A 04-Dec-22  |  | 16-Nov-22   | -18                             | PFab 2-Line 1 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system                               |
| 06-FGC-1-1090   | PFab 2-Line 1 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to solid fication)  | 60                               |                            |  |  | 25-Dec-22  |  | 16-Nov-22   | -39                             | PFab 2-Line 1 - 3rd Floor (EL23.47~ EL34.47m) (Inclu   |
| 06-FGC-1-1100   | PFab 2-Line 1 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)  | 50                               | 3                          | 4 3                                      |  | 2 A 02-Jan-23  |  | 16-Nov-22   | -47                             | PFab 2-Line 1 - 4th Floor (EL34.47~ EL44.22r   |
| iping Fabrication   |  | 180                              |                            | 3  |  | 21 12-Dec-22   |  | 26-Oct-22   | -47                             |  |
| 06-FGC-1-1210   | PFab 2-Line 1 - Piping Fabrication   | 180                              | 1                          | 3 92.78                                  | 8% 29-May-2  | 21 12-Dec-22   | 14-Oct-22  | 26-Oct-22   | -47                             | PFab 2-Line 1 - Piping Fabrication, 12-Dec-22, 12-Dec-22, PFab 2-                                    |
| Piping Installation   |  | 150                              |                            | 1  |  | 22 A 29-Jan-23   |  | 13-Dec-22   | -47                             |  |
| 06-FGC-1-1120   | PFab 2-Line 1 - Piping Installation  | 150                              | 6                          | 1 59.3                                   | 3% 05-Aug-2  | 22 A 29-Jan-23   | 14-Oct-22  | 13-Dec-22   | -47                             | PFab 2-Line 1 - Pi   |
| &I Fabrication  |  | 180                              |                            | 0  | -  | 2 A 19-Dec-22  |  | 15-Nov-22   | -34                             | i i  |
| 06-FGC-1-1220   | PFab 2-Line 1 - E&I Fabrication  | 180                              | 2                          | 0 88.89                                  |  | 2 A 19-Dec-22  |  | 15-Nov-22   | -34                             | PFab 2-Line 1 - E&I Fabrication, 19-Dec-22, 19-Dec-22, PFa   |
| &I Installation   |  | 65                               |                            | 5  |  | 22 08-Feb-23   |  |   | -47                             | ;  |
| 06-FGC-1-1230   | PFab 2-Line 1 - E&I Support Installation   | 45                               |                            | -  |  | 22* 19-Jan-23  |  | 03-Dec-22   | -47                             | 06-Dec <sub>1</sub> -22* 19-Jan-23, PFab 2-Line 1 - E  |
| 06-FGC-1-1240   | PFab 2-Line 1 - E&I Cable Ladder Erection  | 45                               |                            | -  |  | 22 26-Jan-23   |  | 10-Dec-22   | -47                             | 06-Dec 22* 19-Jan-23, PFab 2-Line 1 - E 13-Dec-22 26-Jan-23, PFab 2-Li                               |
| 50 1 GO-1-12 <del>1</del> 0   | 1 1 do 2 ano 1 - Lai Odole Laudei Erection   | 55                               |                            |  |  |  |  |   |                                 | 20-Jdl1-25, FFd0 2-L1  |
| Electrical  | DEah 2 Line 1 Electrical Cable Bulling and Termination   |                                  |                            | 5  |  | 22 08-Feb-23   |  | 23-Dec-22   | -47                             | 40.00  |
|   | PFab 2-Line 1 - Electrical Cable Pulling and Termination   | 30                               |                            |  | 0% 10-Jan-2  |  |  | 23-Dec-22   | -47                             | 10-Jan-23 08-Feb-  |
| 06-FGC-1-1250   | DE LOUI A EL VILLE I VILLE I   | 26                               | 2                          |  |  | 22 21-Jan-23   |  | 05-Dec-22   | -47                             | 27-Dec-22 21-Jan-23, Prab 2-Line 1   |
| 06-FGC-1-1250<br>06-FGC-1-1260  | PFab 2-Line 1 - Electrical Equipment Installation  | -                                |                            |  | 00/ 07 0   |  | 10-Nov-22  | 05-Dec-22   | -47                             | 27-Dec-22 21-Jan-23, PFab 2-Line 1   |
| 06-FGC-1-1250<br>06-FGC-1-1260  | PFab 2-Line 1 - Electrical Equipment Installation PFab 2-Line 1 - Electrical Heat Tracing Installation   | 26                               | 2                          | 6 (                                      | 0% 27-Dec-2  | 22 21-Jan-23   | 10-1404-22   |   |                                 |  |
| 06-FGC-1-1250<br>06-FGC-1-1260<br>06-FGC-1-1270   |  | -                                |                            | -  |  | 22 21-Jan-23<br>22* 09-Jan-23  |  | 23-Nov-22   | -47                             | 16-Dec-22* 09-Jan-23, PFab 2-Line 1 - MCC room   |
| 06-FGC-1-1250<br>06-FGC-1-1260<br>06-FGC-1-1270<br>06-FGC-1-1310  | PFab 2-Line 1 - Electrical Heat Tracing Installation   | 26                               | 2                          | -  | 0% 16-Dec-2  |  | 30-Oct-22  |   |                                 | 16-Dec-22* 09-Jan-23, PFab 2-Line 1 - MCC room   |
| 06-FGC-1-1250<br>06-FGC-1-1260<br>06-FGC-1-1270<br>06-FGC-1-1310  | PFab 2-Line 1 - Electrical Heat Tracing Installation   | 26<br>25                         | 2                          | 5 (                                      | 0% 16-Dec-2  | 22* 09-Jan-23<br>22 08-Feb-23  | 30-Oct-22<br>10-Nov-22   | 23-Nov-22   | -47                             | 16-Dec-22* 09-Jan-23, PFab 2-Line 1 - MCC room   |
| 06-FGC-1-1250<br>06-FGC-1-1260<br>06-FGC-1-1270<br>06-FGC-1-1310<br>Instrument<br>06-FGC-1-1280                                   | PFab 2-Line 1 - Electrical Heat Tracing Installation PFab 2-Line 1 - MCC room installation PFab 2-Line 1 - Instrument Cable Pulling and Termination  | 26<br>25<br>44<br>30             | 2<br>4<br>3                | 5 (                                      | 0% 16-Dec-2<br>27-Dec-2<br>0% 10-Jan-2   | 22* 09-Jan-23<br>22 08-Feb-23<br>3 08-Feb-23                                 | 30-Oct-22<br>10-Nov-22<br>24-Nov-22  | 23-Nov-22<br>23-Dec-22<br>23-Dec-22                           | -47<br>-47                      | 16-Dec-22* 09-Jan-23, PFab 2-Line 1 - MCC room   |
| Electrical  06-FGC-1-1250  06-FGC-1-1260  06-FGC-1-1270  06-FGC-1-1310  Instrument  06-FGC-1-1280  06-FGC-1-1290                  | PFab 2-Line 1 - Electrical Heat Tracing Installation PFab 2-Line 1 - MCC room installation  PFab 2-Line 1 - Instrument Cable Pulling and Termination PFab 2-Line 1 - Instrument Equipment Installation | 26<br>25<br>44<br>30<br>26       | 2<br>4<br>3<br>2           | 5 (4<br>0 (6                             | 0% 16-Dec-2<br>27-Dec-2<br>0% 10-Jan-2<br>0% 27-Dec-2                            | 22* 09-Jan-23<br>22 08-Feb-23<br>3 08-Feb-23<br>22 21-Jan-23                 | 30-Oct-22<br>10-Nov-22<br>24-Nov-22<br>10-Nov-22                           | 23-Nov-22<br>23-Dec-22<br>23-Dec-22<br>05-Dec-22              | -47<br>-47<br>-47<br>-47        | 16-Dec-22* 09-Jan-23, PFab 2-Line 1 - MCC room  10-Jan-23 08-Feb- 27-Dec-22 21-Jan-23, PFab 2-Line 1 |
| 06-FGC-1-1250<br>06-FGC-1-1260<br>06-FGC-1-1270<br>06-FGC-1-1310<br>Instrument<br>06-FGC-1-1280<br>06-FGC-1-1290<br>06-FGC-1-1300 | PFab 2-Line 1 - Electrical Heat Tracing Installation PFab 2-Line 1 - MCC room installation PFab 2-Line 1 - Instrument Cable Pulling and Termination  | 26<br>25<br>44<br>30<br>26<br>26 | 2<br>4<br>3<br>2<br>2      | 5 (4<br>4 0 (6<br>6 (6                   | 0% 16-Dec-2<br>27-Dec-2<br>0% 10-Jan-2<br>0% 27-Dec-2<br>0% 27-Dec-2             | 22* 09-Jan-23<br>22 08-Feb-23<br>3 08-Feb-23<br>22 21-Jan-23<br>22 21-Jan-23 | 30-Oct-22<br>10-Nov-22<br>24-Nov-22<br>10-Nov-22<br>10-Nov-22              | 23-Nov-22<br>23-Dec-22<br>23-Dec-22<br>05-Dec-22<br>05-Dec-22 | -47<br>-47<br>-47<br>-47<br>-47 | 16-Dec-22* 09-Jan-23, PFab 2-Line 1 - MCC room   |
| 06-FGC-1-1250<br>06-FGC-1-1260<br>06-FGC-1-1270<br>06-FGC-1-1310<br>Instrument<br>06-FGC-1-1280<br>06-FGC-1-1290                  | PFab 2-Line 1 - Electrical Heat Tracing Installation PFab 2-Line 1 - MCC room installation  PFab 2-Line 1 - Instrument Cable Pulling and Termination PFab 2-Line 1 - Instrument Equipment Installation | 26<br>25<br>44<br>30<br>26       | 2<br>4<br>3<br>2<br>2<br>7 | 5 (4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0% 16-Dec-2<br>27-Dec-2<br>0% 10-Jan-2<br>0% 27-Dec-2<br>0% 27-Dec-2<br>25-May-2 | 22* 09-Jan-23<br>22 08-Feb-23<br>3 08-Feb-23<br>22 21-Jan-23                 | 30-Oct-22<br>10-Nov-22<br>24-Nov-22<br>10-Nov-22<br>10-Nov-22<br>14-Oct-22 | 23-Nov-22<br>23-Dec-22<br>23-Dec-22<br>05-Dec-22              | -47<br>-47<br>-47<br>-47        | 16-Dec-22*   |

## **3-Month Rolling Programme (November 2022)**

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PFab 2-Line 1 - Pre-commissioning

PFab 2-Line 1 - Delivery

PFab 2-Line 1 - Load Out & ready to ship

PFab 2-Line 2 - Tertiary Structure Fabrication

06-FGC-1-1190

■ 06-FGC-1-1200

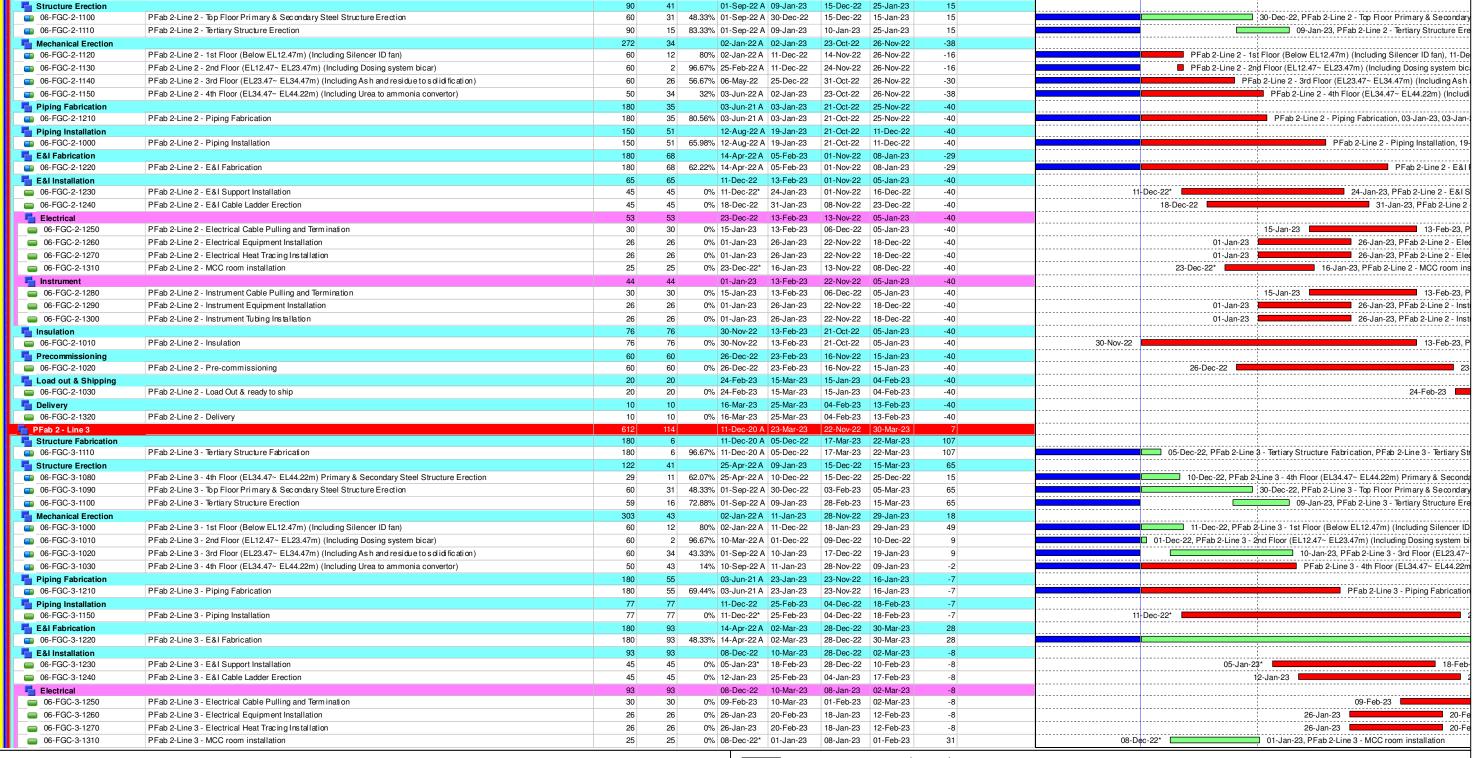
■ 06-FGC-1-1320

PFab 2 - Line 2 Structure Fabrication

■ 06-FGC-2-1040

Load out & Shippin

Contract No. EP/SP/66/12 環境保護署 Integrated Waste Management Facilities, Phase 1 08-Jan-23 27-Jan-23 0% 24-Feb-23 15-Mar-23 08-Jan-23 27-Jan-23 -47 24-Feb-23 0% 16-Mar-23 25-Mar-23 28-Jan-23 06-Feb-23 90.56% 22-Oct-21 A 16-Dec-22 29-Dec-22 15-Jan-23 16-Dec-22, PFab 2-Line 2 - Tertiary Structure Fabrication, PFab 2-Line 2 29 30-Dec-22, PFab 2-Line 2 - Top Floor Primary & Secondary 15 15 09-Jan-23, PFab 2-Line 2 - Tertiary Structure Ere PFab 2-Line 2 - 1st Floor (Below EL12.47m) (Including Silencer ID fan), 11-De -16 ■ PFab 2-Line 2 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bic -16 -30 PFab 2-Line 2 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash -38 ■ PFab 2-Line 2 - 4th Floor (EL34.47~ EL44.22m) (Inclu PFab 2-Line 2 - Piping Fabrication, 03-Jan-23, 03-Jan -40 -40 PFab 2-Line 2 - Piping Installation, 19 PFab 2-Line 2 - E&I -29 -40 24-Jan-23, PFab 2-Line 2 - E&I 31-Jan-23, PFab 2-Line 2 18-Dec-22 -40 -40 15-Jan-23 13-Feb-23. 26-Jan-23, PFab 2-Line 2 - Ele -40 01-Jan-23 -40 01-Jan-23 26-Jan-23. PFab 2-Line 2 - Ele 23-Dec-22\* ■ 16-Jan-23, PFab 2-Line 2 - MCC room in -40 15-Jan-23 13-Feb-23. -40 26-Jan-23, PFab 2-Line 2 - Ins -40 01-Jan-23 -40 01-Jan-23 26-Jan-23, PFab 2-Line 2 - Ins 13-Feb-23, 30-Nov-22 -40 -40 -40 24-Feb-23



Duratio

20

17

0% 26-Dec-22

16-Mar-23

23-Feb-23

25-Mar-23

24-Feb-23 15-Mar-23

22-Oct-21 A 16-Dec-22

09-Nov-22

29-Dec-22

60

20

10

180

## 3-Month Rolling Programme (November 2022)

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| KEPPEL SEGHERS - ZHEN HUAJOINT V   | Activity Name  | Original                          | Remaining                         | al Activ                      | vity % Current Start   | Current Finish  | Late Start  | Late Finish  | Total Float M60 Remarks          | -u Wasie | iviariagei | ment raciilles, r            | nase i                         | 2023                         |
|--|--|-----------------------------------|-----------------------------------|-------------------------------|--|---|---|--|----------------------------------|----------|------------|------------------------------|--------------------------------|------------------------------|
|  | Pictivity (Valile  | Original<br>Duration              | Duration                          | n Cor                         | vity % Current Start<br>mplete   | Current Finish  | Late Start  | Late Fillish   | Total Float Woo Heriarks         |          | Nov        | Dec                          | Jan                            | Feb                          |
| Instrument   |  | 44                                | 44                                | 1                             | 26-Jan-23  | 3 10-Mar-23   | 18lan-23  | 02-Mar-23  | -8                               |          | 60         | 61                           | 62                             | 63                           |
| 06-FGC-3-1280  | PFab 2-Line 3 - Instrument Cable Pulling and Termination   | 30                                | 30                                |                               | 0% 09-Feb-23   |   | 01-Feb-23   |  | -8                               |          |            |                              |                                | 09-Feb-23                    |
| 06-FGC-3-1290  | PFab 2-Line 3 - Instrument Equipment Installation  | 26                                | 26                                | -                             | 0% 26-Jan-23   |   | 18-Jan-23   | 12-Feb-23  | -8                               |          |            |                              |                                | 00 1 00 20                   |
|  | • •  | 26                                | 26                                | -                             | 0% 26-Jan-23   |   | 18-Jan-23   | 12-Feb-23  | -8                               |          |            |                              | 26-Jan-23                      |                              |
| 06-FGC-3-1300  | PFab 2-Line 3 - Instrument Tubing Installation   |                                   |                                   |                               |  |   |   |  | -                                |          |            |                              | 20-Jan-23                      |                              |
| Insulation   | DEst Olive O Involving   | 102                               | 102                               |                               | 30-Nov-22  |   | 22-Nov-22   |  | -8<br>-8                         |          | 00 N 00    |                              |                                |                              |
| 06-FGC-3-1170  | PFab 2-Line 3 - Insulation   | 102                               | 102                               |                               | 0% 30-Nov-22   |   | 22-Nov-22   |  | -8                               |          | 30-Nov-22  |                              |                                |                              |
| Precommissioning   |  | 60                                | 60                                | _                             | 23-Jan-23  |   |   |  | -8                               |          |            |                              |                                |                              |
| 06-FGC-3-1180  | PFab 2-Line 3 - Pre-commissioning  | 60                                | 60                                | ס                             | 0% 23-Jan-23   | 3 23-Mar-23   | 15-Jan-23   | 15-Mar-23  | -8                               |          |            |                              | 23-Jan-23 💳                    |                              |
| PFab 2 - Line 4  |  | 625                               |                                   | 7                             |  | A 16-Mar-23   |   |  | 24                               |          |            |                              |                                |                              |
| Structure Fabrication  |  | 180                               | 45                                | -                             |  | A 13-Jan-23   |   | 09-Apr-23  | 86                               |          |            |                              |                                |                              |
| 06-FGC-4-1150  | PFab 2-Line 4 - Tertiary Structure Fabrication   | 180                               | 45                                | 5 7                           | 75% 25-Oct-21  | A 13-Jan-23   | 24-Feb-23   | 09-Apr-23  | 86                               |          |            |                              | 13-Jan-23,                     | PFab 2-Line 4 - Tertiary S   |
| Structure Erection   |  | 250                               | 43                                | 3                             | 12-Mar-22  | 2 A 11-Jan-23   | 26-Dec-22   | 22-Mar-23  | 70                               |          |            |                              |                                |                              |
| 06-FGC-4-1120  | PFab 2-Line 4 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection   | 60                                | 6                                 | 6 9                           | 90% 12-Mar-22  | 2 A 05-Dec-22   | 26-Dec-22   | 31-Dec-22  | 26                               |          |            | 05-Dec-22 PEah 2-Line        | a Å - Ath Floor (FI 34 47∼ FI. | 14 22m) Primary & Saco       |
| 06-FGC-4-1130  | PFab 2-Line 4 - Top Floor Primary & Secondary Steel Structure Erection   | 60                                | 38                                | 36.6                          | 67% 08-Sep-2   | 2 A 06-Jan-23   | 08-Feb-23   | 17-Mar-23  | 70                               |          |            |                              | 06-Jan-23, PFab 2              | Line 4 - Top Floor Prim      |
| 06-FGC-4-1140  | PFab 2-Line 4 - Tertiary Structure Erection  | 90                                | 27                                | 7                             | 70% 14-Sep-22  | 2 A 11-Jan-23   | 24-Feb-23   | 22-Mar-23  | 70                               |          |            |                              | 11-Jan-23, PF                  | ab 2-Line 4 - Tertiary St    |
| Mechanical Erection  |  | 263                               | 36                                |                               | ·  | 1 A 04-Jan-23   | 06-Dec-22   | 12-Jan-23  | 8                                |          |            |                              |                                | ·                            |
| 06-FGC-4-1040  | PFab 2-Line 4 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)   | 60                                | 7                                 | 7 88 :                        | 33% 24-Dec-2   |   |   |  | 27                               |          |            | 06-Dec-22, PFab 2-Lir        |                                | 47m) (Including Silence      |
| 06-FGC-4-1050  | PFab 2-Line 4 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)  | 60                                | 2                                 |                               | 67% 04-Feb-22  |   |   | 23-Dec-22  | 22                               |          |            | □ 01-Dec-22, PFab 2-Line 4 - |                                |                              |
|  |  | 60                                |                                   | _                             |  |   |   | 12-Jan-23  | 18                               |          |            |                              |                                |                              |
| 06-FGC-4-1060  | PFab 2-Line 4 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to solidification)  |                                   | 26                                |                               | 67% 11-Feb-22  |   |   |  | 18                               |          |            |                              | -Dec-22, PFab 2-Line 4 - 3rd   |                              |
| 06-FGC-4-1070  | PFab 2-Line 4 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)  | 60                                | 36                                | -                             | 40% 06-May-22  |   |   | 10-Jan-23  | 6                                |          |            |                              | 04-Jan-23, PFab 2-L            | ne 4 - 4th Floor (EL34.4     |
| Piping Fabrication   |  | 180                               | 71                                |                               |  | A 08-Feb-23   |   |  | 6                                |          |            |                              |                                |                              |
| 06-FGC-4-1210  | PFab 2-Line 4 - Piping Fabrication   | 180                               | 71                                | 1 60.                         | 56% 09-Jun-21  | A 08-Feb-23   | 06-Dec-22   | 14-Feb-23  | 6                                |          |            |                              |                                | 08-Feb-2                     |
| Piping Installation  |  | 57                                | 57                                | 7                             | 21-Dec-22  | 2 15-Feb-23   | 27-Dec-22   | 21-Feb-23  | 6                                |          |            |                              |                                |                              |
| 06-FGC-4-1000  | PFab 2-Line 4 - Piping Installation  | 57                                | 57                                | 7                             | 0% 21-Dec-22   | 2* 15-Feb-23  | 27-Dec-22   | 21-Feb-23  | 6                                |          |            | 21-Dec-22*                   | ·                              |                              |
| E&I Fabrication  |  | 180                               | 50                                | כ                             | 14-Apr-22  | A 18-Jan-23   | 28-Dec-22   | 15-Feb-23  | 28                               |          |            |                              | -                              |                              |
| 06-FGC-4-1220  | PFab 2-Line 4 - E&I Fabrication  | 180                               | 50                                | 72.2                          | 22% 14-Apr-22  | A 18-Jan-23   | 28-Dec-22   | 15-Feb-23  | 28                               |          |            |                              | 18-Jar                         | -23, PFab 2-Line 4 - E8      |
| E&I Installation   |  | 65                                | 65                                | 5                             | 22-Dec-22  | 2 24-Feb-23   | 28-Dec-22   | 02-Mar-23  | 6                                |          |            |                              | !                              |                              |
| 06-FGC-4-1230  | PFab 2-Line 4 - E&I Support Installation   | 45                                | 45                                | 5                             | 0% 22-Dec-2  | 2* 04-Feb-23  | 28-Dec-22   | 10-Feb-23  | 6                                |          |            | 22-Dec-22*                   |                                | 04-Feb-23, F                 |
| 06-FGC-4-1240  | PFab 2-Line 4 - E&I Cable Ladder Erection  | 45                                | 45                                | 5                             | 0% 29-Dec-2  | 2 11-Feb-23   | 04-Jan-23   | 17-Feb-23  | 6                                |          |            | 29-Dec-22                    |                                | 11-Fe                        |
| Electrical   |  | 55                                | 55                                | -                             | 01-Jan-23  |   |   |  | 6                                |          |            |                              |                                |                              |
| 06-FGC-4-1250  | PFab 2-Line 4 - Electrical Cable Pulling and Termination   | 30                                | 30                                |                               | 0% 26-Jan-23   |   | 01-Feb-23   |  | 6                                |          |            |                              | 26-Jan-23 [                    |                              |
| 06-FGC-4-1260  | PFab 2-Line 4 - Electrical Equipment Installation  | 26                                | 26                                |                               | 0% 12-Jan-23   |   | 18-Jan-23   | 12-Feb-23  | 6                                |          |            |                              | 12-Jan-23                      | 06-Feb-23                    |
|  |  | 26                                |                                   |                               |  |   |   |  | 0                                |          |            |                              |                                |                              |
| 06-FGC-4-1270  | PFab 2-Line 4 - Electrical Heat Tracing Installation   |                                   | 26                                | -                             | 0% 12-Jan-23   |   | 18-Jan-23   | 12-Feb-23  | ь                                |          |            |                              | 12-Jan-23                      | 06-Feb-23,                   |
| 06-FGC-4-1310  | PFab 2-Line 4 - MCC room installation  | 25                                | 25                                |                               | 0% 01-Jan-23   | 3* 25-Jan-23  | 07-Jan-23   | 31-Jan-23  | 6                                |          |            | 01-Jan-23*                   |                                | 25-Jan-23, PFab 2-Line       |
| Instrument   |  | 44                                | 44                                | 4                             | 12-Jan-23  | 24-Feb-23   | 18-Jan-23   | 02-Mar-23  | 6                                |          |            |                              |                                |                              |
| o6-FGC-4-1280  | PFab 2-Line 4 - Instrument Cable Pulling and Termination   | 30                                | 30                                | 0                             | 0% 26-Jan-23   | 24-Feb-23   | 01-Feb-23   | 02-Mar-23  | 6                                |          |            |                              | 26-Jan-23 [                    |                              |
| 06-FGC-4-1290  | PFab 2-Line 4 - Instrument Equipment Installation  | 26                                | 26                                | 3                             | 0% 12-Jan-23   | 06-Feb-23   | 18-Jan-23   | 12-Feb-23  | 6                                |          |            |                              | 1/2-Jan-23                     | 06-Feb-23                    |
| 06-FGC-4-1300  | PFab 2-Line 4 - Instrument Tubing Installation   | 26                                | 26                                | 6                             | 0% 12-Jan-23   | 06-Feb-23   | 18-Jan-23   | 12-Feb-23  | 6                                |          |            |                              | 12-Jan-23                      | 06-Feb-23                    |
| Insulation   |  | 150                               | 3                                 | 3                             | 25-May-22  | 2 01-Mar-23   | 05-Mar-23   | 07-Mar-23  | 6                                |          |            |                              | !                              |                              |
| 06-FGC-4-1010  | PFab 2-Line 4 - Insulation   | 150                               | 3                                 | 3 9                           | 98% 25-May-22  | 2 01-Mar-23   | 05-Mar-23   | 07-Mar-23  | 6                                |          |            |                              |                                |                              |
| Precommissioning   |  | 60                                | 60                                | )                             | 16-Jan-23  | 16-Mar-23   | 22-Jan-23   | 22-Mar-23  | 6                                |          |            |                              |                                |                              |
| 06-FGC-4-1020  | PFab 2-Line 4 - Pre-commissioning  | 60                                | 60                                | )                             | 0% 16-Jan-23   |   |   |  | 6                                |          |            |                              | 16-Jan-23                      |                              |
| PFab 2 - Line 5  | 1 1 as 2 2 and 1 1 10 00 minutes of min  | 641                               | 136                               |                               |  | A 14-Apr-23   |   |  | 57                               |          |            |                              |                                |                              |
| Structure Fabrication  |  | 167                               | 27                                | -                             |  | 2A 26-Dec-22  |   | 11-May-23  | 136                              |          |            |                              |                                |                              |
| 06-FGC-5-1110  | PFab 2-Line 5 - Tertiary Structure Fabrication   | 167                               |                                   | _                             | 83% 31-Mar-22  |   |   | -  | 136                              |          |            | 20                           | S-Dec-22 PFah 2-Line 5 - Te    | rtiary Structure Fabrica     |
|  | 11 as 2-Line 3 - Initiary office in a mice of  | -                                 |                                   |                               |  |   |   |  | 00                               |          |            |                              | 5-pec-22, 1 1 ab 2-Line 5 - 1e | tialy Ottoctore rabirea      |
| Structure Erection<br>06-FGC-5-1070  | DEah 2 Line 5 2rd Floor/El 22 47 Fl 24 47m) Drimany 9 Secondary Steel Structure Freetier   | 245                               | 75                                | -                             |  | 2A 12-Feb-23  |   |  | 13                               |          |            |                              | 5: 2rd Floor/FI 22 47~ FI 24   |                              |
|  | PFab 2-Line 5 - 3rd Floor(EL23.47~ EL34.47m) Primary & Secondary Steel Structure Erection  | 60                                |                                   |                               | 67% 20-Apr-22  |   |   |  |                                  |          |            | 04-Dec-22, PFab 2-Line       | ¦                              |                              |
| 06-FGC-5-1080  | PFab 2-Line 5 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection   | 60                                | 15                                | _                             | 75% 20-May-22  |   |   |  | 17                               |          |            |                              | ab 2-Line 5 - 4th Floor (EL3   |                              |
| 06-FGC-5-1090  | PFab 2-Line 5 - Top Floor Primary & Secondary Steel Structure Erection   | 60                                | 60                                | -                             | 0% 15-Dec-22   |   |   |  | 17                               |          |            | 15-Dec-22                    |                                | 12-F                         |
| 06-FGC-5-1100  | PFab 2-Line 5 - Tertiary Structure Erection  | 90                                | 18                                | 8 8                           | 80% 12-Sep-2   | 2 A 05-Jan-23   | 04-May-23   | 21-May-23  | 136                              |          |            |                              | 05-Jan-23, PFab 2-             | ine 5 - Tertiary Structur    |
| Mechanical Erection  |  | 353                               | 79                                | 9                             | 21-Jan-22  | A 16-Feb-23   | 06-Dec-22   | 01-Mar-23  | 13                               |          |            |                              |                                |                              |
| 06-FGC-5-1000  | PFab 2-Line 5 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)   | 60                                | 13                                | 78.3                          | 33% 21-Jan-22  | 2 A 12-Dec-22   | 06-Dec-22   | 18-Dec-22  | 6                                |          |            | 12-Dec-22, PFa               | b 2-Line 5 - 1st Floor (Below  | EL12.47m) (Including         |
| 06-FGC-5-1010  | PFab 2-Line 5 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)  | 60                                | 6                                 | 6 9                           | 90% 24-Jun-22  | 2 A 05-Dec-22   | 06-Dec-22   | 11-Dec-22  | 6                                |          |            | 05-Dec-22, PFab 2-Lin        | e 5 - 2nd Floor (EL12.47~ EL   | 23.47m) (Including Dos       |
| 06-FGC-5-1020  | PFab 2-Line 5 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to solid fication)  | 60                                | 55                                | 5 8.3                         | 33% 19-Sep-2   | 2 A 28-Jan-23   | 18-Dec-22   | 10-Feb-23  | 13                               |          |            |                              | <del></del>                    | 28-Jan-23, PFab 2-           |
| 06-FGC-5-1030  | PFab 2-Line 5 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)  | 50                                | 19                                |                               | 62% 07-Oct-22  |   |   |  | 13                               |          |            |                              |                                |                              |
| Piping Fabrication   |  | 180                               | 85                                |                               |  | A 22-Feb-23   |   |  | 2                                |          |            |                              |                                |                              |
| 06-FGC-5-1170  | PFab 2-Line 5 - Piping Fabrication   | 180                               | 85                                |                               | 78% 18-Jun-21  |   |   |  | 2                                |          |            |                              |                                |                              |
| 00-1 00-3-11/0   | i i ao 2-line o - l'iping i autoation  |                                   |                                   |                               |  |   |   |  |                                  |          |            |                              |                                |                              |
| Dining Inct-Het  | DEsh O Line E. Dining legislation  | 105                               | 105                               |                               |  | 2 14-Mar-23   |   |  | -3                               |          | 00 N 00*   |                              |                                |                              |
|  |  | 105                               | 105                               |                               | 0% 30-Nov-22   |   |   |  | -3                               |          | 30-Nov-22* |                              |                                |                              |
| 06-FGC-5-1190  | PFab 2-Line 5 - Piping Installation  |                                   | 134                               | 1                             |  | 2A 12-Apr-23  | 28-Jan-23   | 10-Jun-23  | 59                               |          |            | 1                            | 1                              |                              |
| 06-FGC-5-1190<br>E&I Fabrication   |  | 180                               |                                   | _                             |  | -   | 0.0   | 40   |                                  |          |            |                              | <del> </del>                   |                              |
| 06-FGC-5-1190<br><b>E&amp;I Fabrication</b><br>06-FGC-5-1180   | PFab 2-Line 5 - E&I Fabrication  | 180                               | 134                               | 4 25.                         | 56% 14-Apr-22  | 2 A 12-Apr-23   |   | 10-Jun-23  | 59                               |          |            |                              |                                |                              |
| 06-FGC-5-1190  E&I Fabrication 06-FGC-5-1180  E&I Installation   | PFab 2-Line 5 - E&I Fabrication  | 180<br>52                         |                                   | 4 25.                         |  | 2 A 12-Apr-23   |   |  | 59<br>-3                         |          |            |                              | i                              |                              |
| 06-FGC-5-1190  E&I Fabrication 06-FGC-5-1180  E&I Installation   |  | 180                               | 134                               | 4 25.5<br>2                   | 56% 14-Apr-22  | 2A 12-Apr-23<br>23-Mar-23   | 28-Jan-23   | 20-Mar-23  |                                  |          |            |                              | 31-Jan-20                      | 3*                           |
| 06-FGC-5-1190 <b>E&amp;I Fabrication</b> 06-FGC-5-1180 <b>E&amp;I Installation</b> 06-FGC-5-1230   | PFab 2-Line 5 - E&I Fabrication  | 180<br>52                         | 134<br>52                         | 4 25.5<br>2                   | 31-Jan-23<br>0% 31-Jan-23  | 2A 12-Apr-23<br>23-Mar-23   | 28-Jan-23<br>28-Jan-23  | 20-Mar-23<br>13-Mar-23   | -3                               |          |            |                              | 31-Jan-20                      | *                            |
| 06-FGC-5-1190 <b>E&amp;I Fabrication</b> 06-FGC-5-1180 <b>E&amp;I Installation</b> 06-FGC-5-1230 06-FGC-5-1240   | PFab 2-Line 5 - E&I Support Installation   | 180<br>52<br>45                   | 134<br>52<br>45                   | 4 25.5<br>2<br>5              | 31-Jan-23<br>0% 31-Jan-23<br>0% 07-Feb-23  | 2 A 12-Apr-23<br>23-Mar-23<br>16-Mar-23   | 28-Jan-23<br>28-Jan-23<br>04-Feb-23   | 20-Mar-23<br>13-Mar-23   | -3<br>-3                         |          |            |                              | 31-Jan-20                      | * 7-Feb-23                   |
| 06-FGC-5-1190 <b>E&amp;I Fabrication</b> 06-FGC-5-1180 <b>E&amp;I Installation</b> 06-FGC-5-1230 06-FGC-5-1240 <b>Electrical</b>                                     | PFab 2-Line 5 - E&I Support Installation   | 180<br>52<br>45<br>45             | 134<br><b>5</b> 2<br>45<br>45     | 4 25.8<br>2<br>5<br>5         | 56% 14-Apr-22<br>31-Jan-23<br>0% 31-Jan-23<br>0% 07-Feb-23<br>16-Feb-23                    | 2A 12-Apr-23<br>23-Mar-23<br>3 16-Mar-23<br>23-Mar-23   | 28-Jan-23<br>28-Jan-23<br>04-Feb-23<br>14-Feb-23  | 20-Mar-23<br>13-Mar-23<br>20-Mar-23  | -3<br>-3<br>-3                   |          |            |                              | 31-Jan-20                      | 7-Feb-23                     |
| 06-FGC-5-1190  E&I Fabrication 06-FGC-5-1180  E&I Installation 06-FGC-5-1230 06-FGC-5-1240  Electrical 06-FGC-5-1260   | PFab 2-Line 5 - E&I Support Installation PFab 2-Line 5 - E&I Cable Ladder Erection  PFab 2-Line 5 - Electrical Equipment Installation  | 180<br>52<br>45<br>45<br>36<br>26 | 134<br>52<br>45<br>45<br>36       | 25.8<br>2<br>5<br>6<br>6      | 31-Jan-23<br>0% 31-Jan-23<br>0% 07-Feb-23<br>0% 26-Feb-23                                  | 2 A 12-Apr-23<br>3 23-Mar-23<br>3 16-Mar-23<br>3 23-Mar-23<br>3 23-Mar-23<br>2 23-Mar-23                              | 28-Jan-23<br>28-Jan-23<br>04-Feb-23<br>14-Feb-23<br>23-Feb-23                           | 20-Mar-23<br>13-Mar-23<br>20-Mar-23<br>20-Mar-23<br>20-Mar-23              | -3<br>-3<br>-3                   |          |            |                              | 31-Jan-20                      | 7-Feb-23 26-Fe               |
| Piping Installation 06-FGC-5-1190  E&I Fabrication 06-FGC-5-1180  E&I Installation 06-FGC-5-1230 06-FGC-5-1240  Electrical 06-FGC-5-1260 06-FGC-5-1270 06-FGC-5-1270 | PFab 2-Line 5 - E&I Support Installation PFab 2-Line 5 - E&I Cable Ladder Erection  PFab 2-Line 5 - Electrical Equipment Installation PFab 2-Line 5 - Electrical Heat Tracing Installation | 180<br>52<br>45<br>45<br>36<br>26 | 134<br>52<br>45<br>45<br>36<br>26 | 4 25.8<br>2 5 5 6 6 6 6 6 6   | 56% 14-Apr-22<br>31-Jan-23<br>0% 31-Jan-23<br>0% 07-Feb-23<br>0% 26-Feb-23<br>0% 26-Feb-23 | 2A 12-Apr-23<br>3 23-Mar-23<br>3 16-Mar-23<br>3 23-Mar-23<br>3 23-Mar-23<br>3 23-Mar-23<br>3 23-Mar-23<br>3 23-Mar-23 | 28-Jan-23<br>28-Jan-23<br>04-Feb-23<br>14-Feb-23<br>23-Feb-23<br>23-Feb-23              | 20-Mar-23<br>13-Mar-23<br>20-Mar-23<br>20-Mar-23<br>20-Mar-23<br>20-Mar-23 | -3<br>-3<br>-3<br>-3<br>-3<br>-3 |          |            |                              | 31-Jan-20                      | 7-Feb-23<br>26-Fel<br>26-Fel |
| 06-FGC-5-1190  E&I Fabrication 06-FGC-5-1180  E&I Installation 06-FGC-5-1230 06-FGC-5-1240  Electrical 06-FGC-5-1260   | PFab 2-Line 5 - E&I Support Installation PFab 2-Line 5 - E&I Cable Ladder Erection  PFab 2-Line 5 - Electrical Equipment Installation  | 180<br>52<br>45<br>45<br>36<br>26 | 134<br>52<br>45<br>45<br>36       | 4 25.8<br>2 5 5 6 6 6 6 6 5 5 | 56% 14-Apr-22<br>31-Jan-23<br>0% 31-Jan-23<br>0% 07-Feb-23<br>0% 26-Feb-23<br>0% 26-Feb-23 | 2A 12-Apr-23 3 23-Mar-23 3 16-Mar-23 3 23-Mar-23 3 23-Mar-23 3 23-Mar-23 3 23-Mar-23 3 12-Mar-23                      | 28-Jan-23<br>28-Jan-23<br>04-Feb-23<br>14-Feb-23<br>23-Feb-23<br>23-Feb-23<br>14-Feb-23 | 20-Mar-23<br>13-Mar-23<br>20-Mar-23<br>20-Mar-23<br>20-Mar-23<br>10-Mar-23 | -3<br>-3<br>-3<br>-3             |          |            |                              | 31-Jan-2:<br>0                 | 26-Fe 26-Fe 16-Feb-23*       |

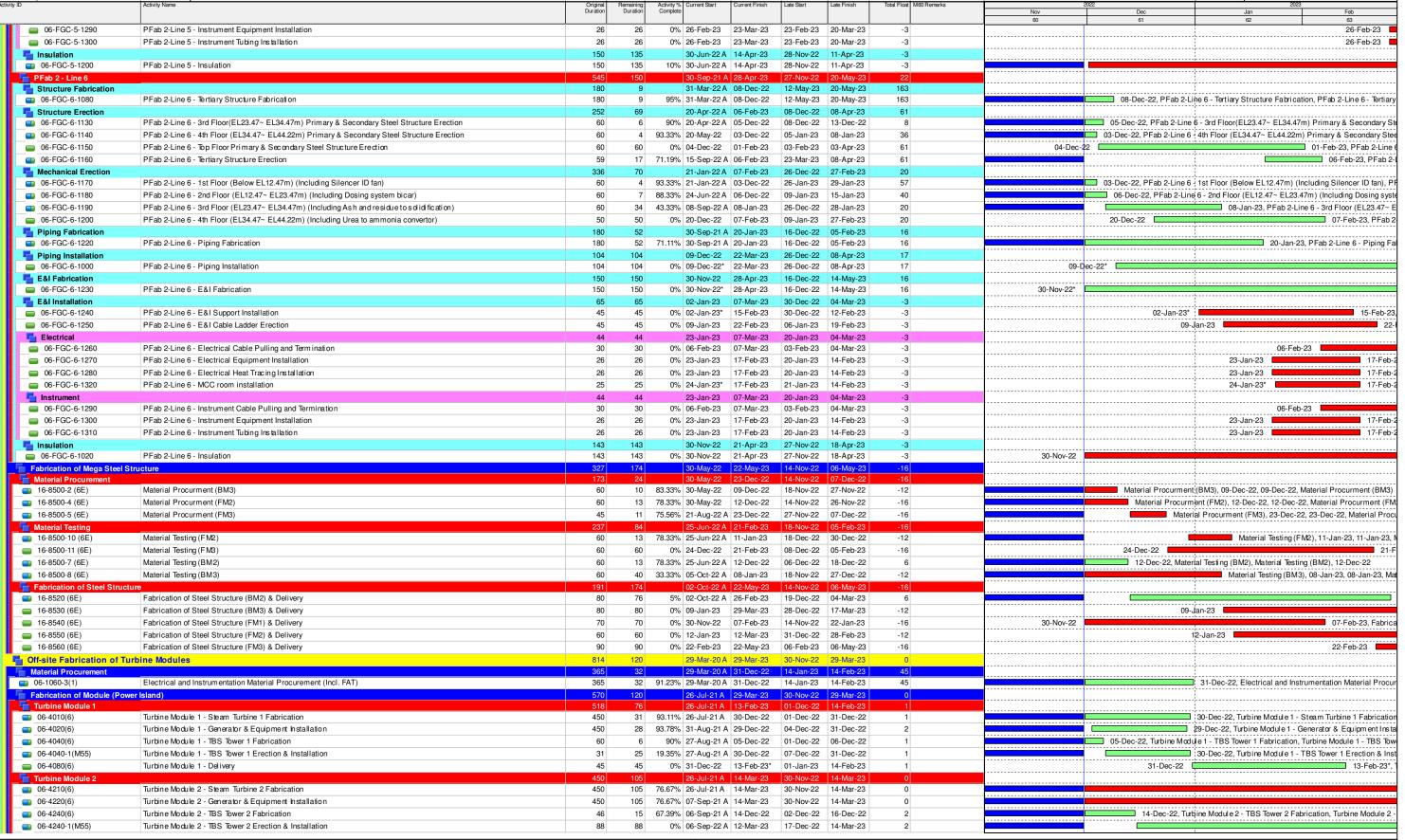
3-Month Rolling Programme (November 2022)

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Actual Milestone Actual Work Critical Milestone Critical Remaining Work Milestone







## 3-Month Rolling Programme (November 2022)

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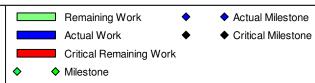




|   | NT VENTURE  | Original                                       | Damair | aine Antivit                               | 0/ Commant Chart   | Comment Finish   | Lata Chart   | Late Fields  | Total Float M60 Remarks                | vvaste management radiities, | 7 774866 7   |
|---|---|--|--------|--|--|--|--|--|--|------------------------------|--|
|   | Activity Name   | Duration                                       | Dura   | tion Comp                                  | y % Current Start<br>lete  | Current Finish   | Late Start   | Late Fillish   | Iotal Float Moo Herrarks               | Nov Dec                      | Jan Feb  |
| Turbine Module 3  |   | 450  | 1      | 20   | 26-Jul-21 A  | 29-Mar-23  | 30-Nov-22  | 29-Mar-23  | 0                                      | 60 61                        | 62 63  |
| <b>06-4410(6)</b>   | Turbine Module 3 - Steam Turbine 3 Fabrication  | 450  | 1      | 20 73.33                                   | 3% 26-Jul-21 A   |  | 30-Nov-22  |  | 0                                      |                              |  |
| 06-4420(6)  | Turbine Module 3 - Generator & Equipment Installation   | 450  | 1      | 20 73.33                                   | 3% 07-Sep-21 A   | 29-Mar-23  | 30-Nov-22  | 29-Mar-23  | 0                                      |                              |  |
| 06-4440(6)  | Turbine Module 3 - TBS Tower 3 Fabrication  | 61   |        |  | 9% 06-Sep-21 A   |  | 02-Dec-22  |  | 2                                      |                              | 09-Jan-23, Turbine Module 3 - TBS Tower 3 F  |
| 06-4440-1(M55)  | Turbine Module 3 - TBS Tower 3 Erection & Installation  | 88   |        |  | 5% 06-Sep-22 A   |  |  | 29-Mar-23  | 2                                      |                              |  |
| Procurement for Air Co  |   | 480  |        | 83   |  | 20-Feb-23  | 30-Nov-22  |  | 184                                    |                              |  |
| 06-1120   | Off-site Fabrication of ACC-1 Units   | 178  |        |  | 6% 23-Oct-21 A   |  | 30-Nov-22  | 24-Dec-22  | 0                                      |                              | Off-site Fabrication of ACC-1 Units, 24-Dec-22, 24-Dec-22, O   |
| 06-1120-1   | Off-site Fabrication of ACC-2 Units   | 178  |        |  | 3% 28-Feb-22 A   |  | 09-Apr-23  | 15-Jun-23  | 130                                    |                              | 05-Feb-23, Off-sit   |
| 06-1120-2   | Off-site Fabrication of ACC-3 Units   | 178  |        |  | 7% 28-Feb-22 A   |  | 02-Jun-23  |  | 184                                    |                              | 20   |
| 06-1130   | Factory Acceptance Test (FAT) for ACC-1   | 56   |        |  | % 20-1 eb-22 A   |  | 30-Nov-22  | 24-Jan-23  | 0                                      | 30-Nov-22                    |  |
| 06-1160   | Delivery to Site ACC-1  | 21   |        |  | 0% 25-Jan-23   |  | 25-Jan-23  | 14-Feb-23  | 0                                      | 30-1107-22                   | 24-Jan-23, Factory Acceptanc   |
|   | •   | 300  |        | 43   |  | 11-Jan-23  | 14-Jun-23  |  | 196                                    |                              | 25-Jan-23 14-Feb-  |
| Procurement for CCCW  | Material Procurement & Equipment Manufacture  | 300  |        | -  | 7% 01-Mar-22 A   |  | 14-Jun-23  |  | 196                                    |                              | 11-Jan-23, Material Procurement & Equipm   |
| 06-1410(1)  |   |  |        | 45 65.67                                   |  |  |  |  | 248                                    |                              | 11-Jair-23, Material Procurement & Equiph  |
|   | anical Treatment Plant Building Plant Equipment   | 398  |        |  |  | 01-Aug-23  |  | •  |  |                              |  |
| 06-1150-1(1)  | Mechanical Equipment Material Submission and Approval   | 180  |        |  | 1% 30-Jun-21 A   |  | 05-Aug-23  | · ·  | 248                                    |                              | 27-Dec-22, Mechanical Equipment Material Submission a  |
| 06-1150-2(1)  | Pipe Material Submission and Approval   | 180  |        |  | 1% 30-Jun-21 A   |  | 19-Sep-23  |  | 293                                    |                              | 27-Dec-22, Pipe Material Submission and Approval, Pipe   |
| 06-1150-3(1)  | Electrical and Instrumentation Material Submission and Approval   | 180  |        |  | 7% 30-Jun-21 A   |  | 10-Aug-23  |  | 253                                    |                              | 28-Jan-23, Electrical and  |
| 06-1160-1(1)  | Mechanical Equipment Procurement (Incl. FAT)  | 217  |        |  | )% 30-Jun-21 A   | -  | 02-Sep-23  | · ·  | 248                                    |                              |  |
| 06-1160-2(1)  | Pipe Material Procurement (Incl. FAT)   | 180  | 1      | 72 4.44                                    | 1% 30-Jun-21 A   |  | 17-Oct-23  | 05-Apr-24  | 293                                    |                              |  |
| Procurement for Waste   | ewater Treatment Plant Equipment  | 105  |        | 31   |  | 30-Dec-22  | 20-Feb-23  |  | 82                                     |                              |  |
| 06-1190-1(1)  | Mechanical Equipment Material Submission and Approval   | 90   |        | 31 65.56                                   | 6% 23-Jun-22 A   | 30-Dec-22  | 20-Feb-23  | 22-Mar-23  | 82                                     |                              | 30-Dec-22, Mechanical Equipment Material Submissi  |
| 06-1190-2(1)  | Pipe Material Submission and Approval   | 90   |        | 31 65.56                                   | 6% 23-Jun-22 A   | 30-Dec-22  | 20-Feb-23  | 22-Mar-23  | 82                                     |                              | 30-Dec-22, Pipe Material Submission and Approval, P  |
| 06-1190-3(1)  | Electrical and Instrumentation Material Submission and Approval   | 90   |        | 31 65.56                                   | 6% 29-Jul-22 A   | 30-Dec-22  | 20-Feb-23  | 22-Mar-23  | 82                                     |                              | 30-Dec-22, Electrical and Instrumentation Material Su  |
| <b>Procurement for Desal</b>  | & Demin Plant Equipment   | 120  | 1      | 21   | 01-Jun-22 A  | 30-Mar-23  | 23-Jan-23  | 23-May-23  | 54                                     |                              |  |
| 06-1240-1(1)  | Mechanical Equipment Procurement (Incl. FAT)  | 60   |        | 1 98.33                                    | 3% 01-Jun-22 A   | 30-Nov-22  | 23-Jan-23  | 23-Jan-23  | 54                                     |                              | Equipment Procurement (Incl. FAT), Mechanical Equipment I  |
| 06-1260-1(M55)  | WTP chemical storage tank Material Submission and Approval  | 120  | 1      | 20 0                                       | 0% 01-Dec-22   | 30-Mar-23  | 24-Jan-23  | 23-May-23  | 54                                     | 01-Dec-22                    |  |
| Procurement for HV Tr   | ansformers and Associated Equipment   | 333  | 1      | 80   | 31-May-22  | 28-May-23  | 30-Nov-22  | 28-May-23  | 0                                      |                              | ····· <del>;</del>   |
| Procurement of Transform  | <u> </u>  | 120  | 1      | 20   |  | 28-Apr-23  |  |  | 10                                     |                              |  |
| 06-1290(1)  | Factory Acceptance Test (FAT)   | 120  | 1      | 20 0                                       | 0% 30-Dec-22   | 28-Apr-23  | 09-Jan-23  | 08-May-23  | 10                                     | 30-Dec-2                     |  |
| Procurement of Switchbo   | pard/Pannels and Cables   | 240  | 1      | 80   | 31-May-22  | 28-May-23  | 30-Nov-22  | 28-May-23  | 0                                      |                              | <del>-</del>   |
| 06-2090(1)  | Material Submission and Approval  | 60   |        | 30 50                                      | 0% 31-May-22   |  | 30-Nov-22  |  | 0                                      |                              | Material Submission and Approval, 29-Dec-22, 29-Dec-   |
| 06-2100(1)  | Material & Equipment Procurement  | 240  | 1      | 80 25                                      | 5% 31-May-22   | 28-May-23  | 30-Nov-22  | 28-May-23  | 0                                      |                              |  |
| Procurement for Contr   | rol SCADA Systems   | 140  | 1      | 05   | 23-May-22  | 14-Mar-23  | 02-Dec-22  | 16-Mar-23  | 2                                      |                              |  |
| 06-1310   | Scada System Procurement, Panel Assembly & Wiring   | 140  | 1      | 05 25                                      | 5% 23-May-22   |  | 02-Dec-22  |  | 2                                      |                              |  |
| Procurement for Onsh  |   | 360  |        | 60   | -  | 24-Nov-23  | 03-Nov-22  |  | -27                                    |                              |  |
| 06-1350   | Supplier Submission and Approval  | 60   |        |  | )% 30-Nov-22   | 28-Jan-23  | 03-Nov-22  |  | -27                                    | 30-Nov-22                    | 28-Jan-23, Supplier Sub  |
| 06-1360   | Material & Equipment Procurement  | 300  |        |  |  | 24-Nov-23  | 02-Jan-23  |  | -27                                    |                              | 29-Jan-23  |
|   | ite Fabrication of Pipe Bridges (Incl. Pipings)   | 325  |        | 42   |  | 20-Apr-23  | 23-Nov-22  |  | 39                                     |                              | 20 001 20  |
| 06-1400   | Material & Equipment Procurement  | 150  |        |  | 3% 31-May-22   | •  | 20-May-23  | •  | 134                                    |                              | 15-Jan-23, Material & Equipment Pro  |
| Fabrication of Pipe Rack  |   | 150  |        | 78   |  | 15-Feb-23  |  | -  | 99                                     |                              | 13-bail-23, Material & Equipment 10  |
| Pipe Rack 1   | (Fieldus)   | 110  |        | 44   |  | 12-Jan-23  |  |  | 91                                     |                              |  |
| 06-5000(6)  | Structure Cutting, Painting & Pre-assembly  | 110  |        |  | 1% 28-Oct-21 A   |  |  | <del>,                                     </del>  | 91                                     |                              | 31-Dec-22, Structure Cutting, Painting & Pre-assem   |
| 06-5010(6)  | Erection & Fabrication  | 60   |        |  | 7% 07-Mar-22 A   |  | 01-Mar-23  |  | 91                                     |                              | 12-Jan-23, Erection & Fabrication, Erec  |
| Pipe Rack 2   | LICONOTIC T ADTICATION  | 110  |        | 78   | 11-Nov-21 A  |  |  | ·  | 88                                     |                              |  |
| 06-5070(6)  | Structure Cutting, Painting & Pre-assembly  | 110  |        |  | 7% 11-Nov-21 A   |  |  |  | 88                                     |                              | 15-Jan-23, Structure Cutting, Painting   |
| 06-5080(6)  | Erection & Fabrication  | 60   |        |  | 3% 14-Mar-22 A   |  |  | -  | 88                                     |                              | 15-Fe  |
| Pipe Rack 3   | Liection & Labrication  | 132  |        | 78   |  | 15-Feb-23  |  | -  | 88                                     |                              | 10-16  |
| 06-5140(6)  | Structure Cutting, Painting & Pre-assembly  | 110  |        |  | 7% 30-May-21   |  |  |  | 88                                     |                              | 15-Jan-23, Structure Cutting, Painting   |
| 06-5150(6)  | Erection & Fabrication  | 60   |        |  | 3% 07-Mar-22 A   |  |  | -  | 88                                     |                              | 15-Fe  |
|   |   | 180  |        |  | 15-Oct-22 A  |  |  | ,  | 24                                     |                              | 10-Ft  |
| Fabrication of Pipe Bridg  Pipe Bridge B Between (  |   | 180  |        | 77   |  | 14-Feb-23  |  |  | 24                                     |                              |  |
| 06-5300(6)  | Structure Cutting, Painting & Pre-assembly  | 180  |        | 0 100                                      | 15-Oct-22 A  |  |  |  | 24                                     |                              | ting, Painting & Pre-assembly, Structure Cutting, Painting &   |
| 06-5310(6)  | Erection & Fabrication  | 31   |        |  | 0% 30-Nov-22   |  |  |  | 24                                     | 30-Nov-22                    | 30-Dec-22, Erection & Fabrication  |
| <u> </u>  | Piping installation   | 46   |        |  | 0% 30-Nov-22<br>0% 31-Dec-22   |  |  |  | 24                                     | 30-Nov-22 31-Dec-            |  |
| DC E220(C)  | , •   | -  |        | -  |  |  |  |  | 24                                     |                              | 22 14-ге   |
|   |   | 203  |        | <b>42</b><br>39                            | 18-Oct-22 A  |  |  |  | -7<br>-7                               |                              |  |
| Fabrication of Pipe Bridg   |   | 200  |        |  | 1 18-UCI-22 A  | 17-Apr-23  |  |  |  |                              |  |
| Fabrication of Pipe Bridg Pipe Bridge C between T   | Turbine Hall & ACC -1   | 200  |        | _  |  | 15-Fob 22  | 33-Nov 33  | U8-Ech 33  |  |                              |  |
| Fabrication of Pipe Bridg Pipe Bridge C between T 06-5400(6)  | Furbine Hall & ACC -1 Structure Cutting, Painting & Pre-assembly  | 14   |        | 78 C                                       | )% 18-Oct-22 A   |  |  |  | -7<br>-7                               |                              |  |
| Pipe Bridge C between T  06-5400(6)  06-5410(6)   | Structure Cutting, Painting & Pre-assembly Erection & Fabrication   | 14<br>61                                       |        | 78 C                                       | 0% 18-Oct-22 A<br>0% 16-Feb-23   | 17-Apr-23  | 09-Feb-23  | 10-Apr-23  | -7                                     |                              | Struct<br>16-Feb-23  |
| Fabrication of Pipe Bridg Pipe Bridge C between T 06-5400(6) 06-5410(6) Pipe Bridge C between T   | Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -2   | 14<br>61<br>200                                | 1      | 78 C<br>61 C<br>39                         | 18-Oct-22 A<br>16-Feb-23<br>18-Oct-22 A  | 17-Apr-23  | 09-Feb-23<br>23-Nov-22   | 10-Apr-23  | -7<br>-7                               |                              | 16-Feb-23  |
| Fabrication of Pipe Bridg Pipe Bridge C between T 06-5400(6) 06-5410(6) Pipe Bridge C between T 06-5440(6)  | Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -2  Structure Cutting, Painting & Pre-assembly   | 14<br>61<br>200<br>14                          | 1      | 78 C<br>61 C<br>39 78 C                    | 18-Oct-22 A<br>16-Feb-23<br>18-Oct-22 A<br>18-Oct-22 A   | 17-Apr-23<br>17-Apr-23<br>15-Feb-23  | 09-Feb-23<br>23-Nov-22<br>23-Nov-22  | 10-Apr-23<br>10-Apr-23<br>08-Feb-23  | -7<br>-7<br>-7                         |                              | 16-Feb-23 Stru   |
| Fabrication of Pipe Bridg Pipe Bridge C between T 06-5400(6) 06-5410(6) Pipe Bridge C between T 06-5440(6) 06-5450(6)   | Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -2  Structure Cutting, Painting & Pre-assembly  Erection & Fabrication   | 14<br>61<br>200<br>14<br>61                    | 1      | 78 C<br>61 C<br>39 78 C<br>61 C            | 0% 18-Oct-22 A<br>0% 16-Feb-23<br>18-Oct-22 A<br>0% 18-Oct-22 A<br>0% 16-Feb-23  | 17-Apr-23<br>17-Apr-23<br>15-Feb-23<br>17-Apr-23   | 09-Feb-23<br>23-Nov-22<br>23-Nov-22<br>09-Feb-23   | 10-Apr-23<br>10-Apr-23<br>08-Feb-23<br>10-Apr-23   | -7<br>-7<br>-7<br>-7                   |                              | 16-Feb-23 Struc  |
| 06-5320(6)  Fabrication of Pipe Bridg  Pipe Bridge C between T  06-5400(6)  06-5410(6)  Pipe Bridge C between T  06-5440(6)  06-5450(6)  Pipe Bridge C between T    | Furbine Hall & ACC -1 Structure Cutting, Painting & Pre-assembly Erection & Fabrication Furbine Hall & ACC -2 Structure Cutting, Painting & Pre-assembly Erection & Fabrication Furbine Hall & ACC -3   | 14<br>61<br>200<br>14<br>61<br>203             | 1      | 78 C<br>61 C<br>39 78 C<br>61 C            | 0% 18-Oct-22 A<br>0% 16-Feb-23<br>18-Oct-22 A<br>0% 18-Oct-22 A<br>0% 16-Feb-23<br>18-Oct-22 A                                     | 17-Apr-23<br>17-Apr-23<br>15-Feb-23<br>17-Apr-23<br>20-Apr-23  | 09-Feb-23<br>23-Nov-22<br>23-Nov-22<br>09-Feb-23<br>23-Nov-22  | 10-Apr-23<br>10-Apr-23<br>08-Feb-23<br>10-Apr-23<br>13-Apr-23  | -7<br>-7<br>-7<br>-7<br>-7             |                              | 16-Feb-23 Struc  |
| Fabrication of Pipe Bridg Pipe Bridge C between T 06-5400(6) 06-5410(6) Pipe Bridge C between T 06-5440(6) 06-5450(6) Pipe Bridge C between T 06-5480(6)            | Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -2  Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -3  Structure Cutting, Painting & Pre-assembly  | 14<br>61<br>200<br>14<br>61<br>203<br>14       | 1      | 78 C<br>61 C<br>39 78 C<br>61 C<br>42 81 C | 0% 18-Oct-22 A<br>16-Feb-23<br>18-Oct-22 A<br>18-Oct-22 A<br>16-Feb-23<br>18-Oct-22 A<br>18-Oct-22 A<br>18-Oct-22 A                | 17-Apr-23<br>17-Apr-23<br>15-Feb-23<br>17-Apr-23<br>20-Apr-23<br>18-Feb-23                           | 09-Feb-23<br>23-Nov-22<br>23-Nov-22<br>09-Feb-23<br>23-Nov-22<br>23-Nov-22                           | 10-Apr-23<br>10-Apr-23<br>08-Feb-23<br>10-Apr-23<br>13-Apr-23<br>11-Feb-23                           | -7<br>-7<br>-7<br>-7<br>-7<br>-7       |                              | 16-Feb-23 Struc 16-Feb-23 Struc Stru |
| Fabrication of Pipe Bridg Pipe Bridge C between T 06-5400(6) 06-5410(6) Pipe Bridge C between T 06-5440(6) 06-5450(6) Pipe Bridge C between T 06-5480(6) 06-5490(6) | Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -2  Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -3  Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -3  Structure Cutting, Painting & Pre-assembly  Erection & Fabrication | 14<br>61<br>200<br>14<br>61<br>203<br>14<br>61 | 1      | 78 C<br>61 C<br>39 78 C<br>61 C<br>42 81 C | 0% 18-Oct-22 A<br>16-Feb-23<br>18-Oct-22 A<br>18-Oct-22 A<br>18-Oct-22 A<br>18-Oct-22 A<br>18-Oct-22 A<br>18-Oct-22 A<br>19-Feb-23 | 17-Apr-23<br>17-Apr-23<br>15-Feb-23<br>17-Apr-23<br>20-Apr-23<br>20-Apr-23                           | 09-Feb-23<br>23-Nov-22<br>23-Nov-22<br>09-Feb-23<br>23-Nov-22<br>23-Nov-22<br>12-Feb-23              | 10-Apr-23<br>10-Apr-23<br>08-Feb-23<br>10-Apr-23<br>13-Apr-23<br>11-Feb-23<br>13-Apr-23              | -7<br>-7<br>-7<br>-7<br>-7<br>-7<br>-7 |                              | 16-Feb-23 Struc 16-Feb-23  |
| Fabrication of Pipe Bridg Pipe Bridge C between T 06-5400(6) 06-5410(6) Pipe Bridge C between T 06-5440(6) 06-5450(6) Pipe Bridge C between T 06-5480(6) 06-5490(6) | Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -2  Structure Cutting, Painting & Pre-assembly  Erection & Fabrication  Furbine Hall & ACC -3  Structure Cutting, Painting & Pre-assembly  | 14<br>61<br>200<br>14<br>61<br>203<br>14       | 1      | 78   | 0% 18-Oct-22 A<br>16-Feb-23<br>18-Oct-22 A<br>18-Oct-22 A<br>18-Oct-22 A<br>18-Oct-22 A<br>18-Oct-22 A<br>18-Oct-22 A<br>19-Feb-23 | 17-Apr-23<br>17-Apr-23<br>15-Feb-23<br>17-Apr-23<br>20-Apr-23<br>18-Feb-23<br>20-Apr-23<br>11-Jan-23 | 09-Feb-23<br>23-Nov-22<br>23-Nov-22<br>09-Feb-23<br>23-Nov-22<br>23-Nov-22<br>12-Feb-23<br>22-Sep-23 | 10-Apr-23<br>10-Apr-23<br>08-Feb-23<br>10-Apr-23<br>13-Apr-23<br>11-Feb-23<br>13-Apr-23<br>03-Nov-23 | -7<br>-7<br>-7<br>-7<br>-7<br>-7       |                              | Struc<br>16-Feb-23   |

# **3-Month Rolling Programme (November 2022)**

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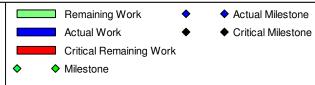




| ID                                     | Activity Name  | Original   | Remaining  | Activity % | Current Start | Current Finish         | Late Start             | Late Finish | Total Float M60 Remarks | Waste Manage | 2022                         |                                | 2023                       |
|--|--|------------|------------|------------|---------------|------------------------|------------------------|-------------|-------------------------|--------------|------------------------------|--------------------------------|----------------------------|
|  |  | Duration   | Duration   | Complete   |               |                        |                        |             |                         | Nov<br>60    | Dec<br>61                    | Jan<br>62                      | Feb<br>63                  |
| _IWMF Substation                       |  | 250        | 90         |            |               |                        | 12-Mar-23              |             | 72                      |              |                              |                                |                            |
| 06-1810(6)                             | Material Submission & Equipment Procurement (For IWMF Substation)  | 250        | 90         | 64%        | 31-May-22     | 29-Mar-23              | 12-Mar-23              | 09-Jun-23   | 72                      |              |                              |                                |                            |
| Procurement for Cranage                | Equipment  | 395        | 152        |            |               |                        | 28-Dec-22              |             | 111                     |              |                              | -                              |                            |
| _Waste Crane                           |  | 180        | 152        |            |               | <del></del>            | 20-Mar-23              |             | 110                     |              |                              |                                |                            |
| 06-1720                                | Material & Equipment Procurement   | 180        | 152        |            |               | 30-Apr-23              |                        | 18-Aug-23   | 110                     |              |                              |                                |                            |
| Ash Crane                              | Material 9 Carriam and Dress warmand   | 180        | 36         |            |               |                        | 13-Jul-23              | - U         | 225                     |              |                              | O4 les 00 Material 8           | Faviore and Description    |
| 06-1830                                | Material & Equipment Procurement   | 180        | 36         |            |               | 04-Jan-23              | 13-Jul-23<br>09-Jul-23 | -           | 225                     |              |                              | 04-Jan-23, Material &          | Equipment Procurement,     |
| <u>Shredder</u><br><u></u> 06-1870     | Material & Equipment Procurement   | 85         | 42         | 50.59%     |               |                        | 09-Jul-23              |             | 131                     |              |                              |                                |                            |
| EOTC                                   | Material & Equipment Froodiement   | 150        | 100        |            |               |                        | 28-Dec-22              | Ü           | 28                      |              |                              | +                              |                            |
| o6-1920                                | Factory Acceptance Test (FAT)  | 150        |            | 33.33%     |               |                        | _                      | 06-Apr-23   | 28                      |              |                              | <u></u>                        |                            |
| 06-1940(M54)                           | EOTC Delivery to Site Batch 1  | 47         | 47         |            |               | 15-Jan-23              |                        | 12-Feb-23   | 28                      | 30-Nov-22    |                              | 15-Jan-23                      | , EOTC Delivery to Site Ba |
|  | ity Monitoring Station Equipment   | 218        | 157        |            |               |                        | 02-Dec-22              |             | 2                       |              |                              |                                | ,                          |
| 06-2150(1)                             | Material Submission and Approval   | 60         | 7          |            |               | 06-Dec-22              |                        | 08-Dec-22   | 2                       |              |                              | ubmission and Approval, Mat    |                            |
| 06-2160(1)                             | Material Procurement   | 150        | 150        |            | -             | 05-May-23              |                        | 07-May-23   | 2                       | 07-0         | Dec-22                       | <u></u>                        |                            |
| Procurement for Air Com                | pressor Equipment  | 16         | 0          |            |               | 17-Mar-23              | 06-Aug-23              | -           | 143                     |              |                              |                                |                            |
| 06-1890(1)                             | Factory Acceptance Test (FAT)  | 16         | 0          | 100%       | 09-Aug-22 A   | 17-Mar-23              | 06-Aug-23              | 06-Aug-23   | 143                     |              |                              |                                |                            |
| Procurement for Pipes a                | nd Insulation for on site installations  | 307        | 124        | :          | 31-May-22     | 02-Apr-23              | 19-Jan-23              | 22-May-23   | 50                      |              |                              |                                |                            |
| 06-2250(1)                             | Material Submission and Approval   | 60         | 4          | 93.33%     | 31-May-22     | 03-Dec-22              | 19-Jan-23              | 22-Jan-23   | 50                      |              | 03-Dec-22, Material Subr     | nission and Approval, Materia  | al Submission and Approv   |
| 06-2260(1)                             | Material & Equipment Procurement   | 120        | 120        |            |               | 02-Apr-23              | 23-Jan-23              |             | 50                      | 04-Dec       | :-22                         |                                | :::                        |
|  | g Finishes Materials (Doors, windows and louvers ie)   | 300        | 300        | ) ;        | 30-Nov-22     | 25-Sep-23              | 10-Dec-22              | 05-Dec-23   | 71                      |              |                              | -                              |                            |
| 06-8010(6)                             | ACC Equipment Yard - Material Submission, Procurement, FAT and Delivery  | 300        | 300        | 0% :       | 30-Nov-22     | 25-Sep-23              | 09-Feb-23              | 05-Dec-23   | 71                      | 30-Nov-22    |                              |                                |                            |
| 06-8030(6)70                           | IWMF Substation - Material Submission, Procurement, FAT and Delivery   | 200        | 200        | 0%         | 09-Dec-22     | 26-Jun-23              | 10-Dec-22              | 27-Jun-23   | 1                       | 09           | 9-Dec-22                     | ·                              |                            |
| Procurement for IWMF E                 | quipments for BS Works   | 60         | 60         | ) :        | 29-Jan-23     | 29-Mar-23              | 07-Feb-23              | 07-Apr-23   | 9                       |              |                              |                                |                            |
| 06-8300(6E)                            | Material Submission and Approval   | 60         | 60         | 0%         | 29-Jan-23     | 29-Mar-23              | 07-Feb-23              | 07-Apr-23   | 9                       |              |                              | 29-Jan-23                      |                            |
| Delivery of Cast-in pipes              | , Fittings and Anchor Bolts for Structures (if applicable)   | 36         | 36         | 3          | 01-Dec-22     | 06-Jan-23              | 27-Nov-22              | 17-Jan-23   | 11                      |              |                              |                                |                            |
| 04-1805(6F)                            | Wastewater Treatment Plant (60d)   | 0          | 0          | 0%         | 01-Dec-22     |                        | 15-Dec-22              |             | 14                      |              | ♦ Wastewater Treatment Plan  | t (60d), 01-Dec-22             |                            |
| 04-1815(6F)                            | Turbine Hall Building (30d)  | 0          | 0          | 0%         | 13-Dec-22     |                        | 27-Nov-22              |             | -16                     |              | ◆ Turbine Hall Bu            | Iding (30d), 13-Dec-22         |                            |
| 04-1880(6F)                            | IWMF Substation (90d)  | 0          | 0          | 0%         | 06-Jan-23     |                        | 17-Jan-23              |             | 11                      |              |                              | ♦ IWMF Substation (9           | 0d), 06-Jan-23             |
| 04-1890(6F)                            | ACC Equipment Structure (30d)  | 0          | 0          | 0%         | 28-Dec-22     |                        | 09-Dec-22              |             | -19                     |              | <b>*</b>                     | ACC Equipment Structure (3     | 0d), 28-Dec-22             |
| Maritime Works                         |  | 381        | 198        | 3 ;        | 31-May-22     | 15-Jun-23              | 16-Dec-22              | 03-Nov-23   | 141                     |              |                              |                                |                            |
| Marine Construction                    |  | 381        | 198        | 3 ;        | 31-May-22     | 15-Jun-23              | 16-Dec-22              | 03-Nov-23   | 141                     |              |                              |                                |                            |
| Phase I - Construction of P            | erimeter Seawalls  | 263        | 180        | :          | 31-May-22     | 28-May-23              | 16-Dec-22              | 02-Oct-23   | 127                     |              |                              |                                |                            |
| Seawall and Berth at DCM               | Area   | 60         | 30         | ;          | 31-May-22     | 29-Dec-22              | 16-Dec-22              | 02-Oct-23   | 277                     |              |                              | -                              |                            |
| Seawall Structural Works               |  | 60         | 30         |            | 31-May-22     | 29-Dec-22              |                        | 02-Oct-23   | 277                     |              |                              | -                              |                            |
| Remain Works                           |  | 60         | 30         |            |               | 29-Dec-22              |                        | 02-Oct-23   | 277                     |              |                              | <u> </u>                       |                            |
| 08-1120-2(M55)                         | Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C1 & C2 (Caisson A2 & A   | 60         | 30         |            | -             | 29-Dec-22              | 03-Sep-23              |             | 277                     |              |                              | 29-Dec-22, Construction of     |                            |
| 08-1120-3(M55)                         | Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C8 & C9   | 60         | 0          |            |               | 30-Nov-22              | _                      | 16-Dec-22   | 17                      |              | 30-Nov-22, Construction of S |                                |                            |
| 08-1120-4(M55)                         | Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C73 & C73C1   | 60         | 30         |            |               | 29-Dec-22              | 03-Sep-23              |             | 277                     |              |                              | 29-Dec-22, Construction of     | Seawaii and Wave Wall E    |
| Seawall at Dredging Area Remain Works  |  | 160        | 160<br>160 |            |               | 28-May-23<br>28-May-23 | 26-Apr-23<br>26-Apr-23 |             | 127<br>127              |              |                              | -                              |                            |
| ■ 08-1170                              | Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (Bay 1 to Bay 8)  | 160        | 160        |            |               |                        | 26-Apr-23              |             | 127                     |              |                              | <u></u>                        |                            |
| _                                      | kwater and Berth Construction  | 381        | 198        |            |               | -                      | 28-Dec-22              |             | 141                     |              |                              |                                |                            |
| Reclamation                            |  | 289        | 198        |            |               |                        | 28-Dec-22              |             | 28                      |              |                              |                                |                            |
| Reclamation Works                      |  | 289        | 198        | 3          | 04-Jun-22 A   | 15-Jun-23              | 28-Dec-22              | 13-Jul-23   | 28                      |              |                              | 1                              |                            |
| Surcharge Filling                      |  | 57         | 31         |            | 04-Jun-22 A   | 30-Dec-22              | 28-Dec-22              | 16-Feb-23   | 48                      |              |                              |                                |                            |
| 08-3060-1(M57)                         | Fill up +7.5 to +15mPD at West Edge Area (Area 7B1) (30,500m3 @ 2500m3/d)  | 13         | 31         | 0%         | 31-Jul-22 A   | 30-Dec-22              | 17-Jan-23              | 16-Feb-23   | 48                      |              |                              | 30-Dec-22, Fill up +7.5 to     |                            |
| 08-3080(6)                             | Fill up +7.5 to +15mPD at South Edge Area (Area 5) (96,700m3 @ 2500m3/d)   | 39         | 18         |            |               |                        | 28-Dec-22              |             | 28                      |              | 17-Dec-22                    | Fill up +7.5 to +15mPD at S    | outh Edge Area (Area 5) (  |
| Surcharge Period                       |  | 180        | 180        |            |               | 15-Jun-23              |                        | 13-Jul-23   | 28                      |              |                              | <u> </u>                       |                            |
| 08-3120-2(M57)                         | Loading @ +12mPD at West Edge Area (Area 7B1)  | 60         | 60         |            |               | 28-Feb-23              | 17-Feb-23              |             | 48                      |              | 31-Dec-22                    |                                |                            |
| 08-3130(6)                             | Loading @ +11&+13mPD at South Edge Area (Area 5)   | 180        | 180        |            |               | 15-Jun-23              |                        | 13-Jul-23   | 28                      |              | 18-Dec-22                    |                                |                            |
| Breakwater Remain Works                |  | 120        | 90         |            |               |                        | 06-Aug-23              |             | 249                     |              |                              |                                |                            |
| ■ 08-1300                              | Construction of Caissons Extension from +3mPD to Deck Level  | 120<br>120 | 90         |            |               |                        | 06-Aug-23<br>06-Aug-23 |             | 249<br>249              |              |                              | 4                              |                            |
| Foundation Works                       | SCHOOL SCHOOL CARDINAL HOLD TO BE DECORED TO   | 264        | 116        |            |               |                        | 11-Nov-22              |             | 100                     |              |                              | ·                              |                            |
|  | Cellism Did Farm delice  |            |            |            | •             |                        |                        |             |                         |              |                              | <u>.</u>                       |                            |
| Administration & Viewing               |  | 15         | 3          |            |               |                        | 01-Jul-23              |             | 213                     |              |                              | -}                             |                            |
| Administration Piling Works 09-1055(6) | Predrilling for Driven Pile founding determination (15 nr ~60m, @15m/d, 4 Rigs)  | 15<br>15   | 3          |            |               |                        | 01-Jul-23<br>01-Jul-23 |             | 213<br>213              |              | 02-Dec-22, Predrilling for   | Otiven Pile founding determin  | nation (15 nr ~60m @15m    |
| . ,                                    | Bunker & Tipping Hall Bld Foundation   | 148        | 61         |            |               |                        | 30-Nov-22              |             | 41                      |              | UZ-DOG-ZZ, F TOUTHING TO     |                                |                            |
| Process Building Piling Wo             |  | 113        | 26         |            |               |                        | 13-Dec-22              |             | 14                      | _            |                              | +                              |                            |
| Piling Stage 3 (Module 3)              | THE CONTROL OF PROPERTY OF THE CONTROL OF THE CONTR | 113        | 26         |            |               |                        | 13-Dec-22              |             | 14                      |              |                              |                                |                            |
| Process Building (Module               | 3) WWTP (Subzone 23&24)  | 45         | 16         |            |               |                        | 16-Dec-22              |             | 17                      |              |                              | -                              |                            |
| <b>100000 2 and mg (module</b>         | Driven H Pile Installations (103 nrs ~40m(D), @60m/d 2 Groups)   | 35         | 8          |            |               |                        | 16-Dec-22              |             | 17                      |              | 07-Dec-22, Driven H          | cile Installations (103 nrs ~4 | Om(D), @60m/d 2 Groups     |
| <b>o</b> 9-1170                        | Pile Load Test   | 8          | 8          |            |               |                        | 24-Dec-22              |             | 17                      | 08-          | -Dec-22 15-Dec-22, F         |                                |                            |
|  | 3) Bunker (Subzone 25, 26&27)  | 113        | 26         |            |               | 25-Dec-22              |                        | 08-Jan-23   | 14                      |              |                              | !                              |                            |
| <b>o</b> 09-2210                       | Driven H Pile Installations (297 nrs ~40m(D), @60m/d 2 Groups)   | 99         | 18         |            |               | 17-Dec-22              | 13-Dec-22              |             | 14                      |              | 17-Dec-22                    | Driven H Pile Installations (2 | 297 nrs ~40m(D), @60m/c    |
|  | Pile Load Test   | 8          | 8          |            |               | _                      | 31-Dec-22              |             | 14                      | 1            | 18-Dec-22 25                 |                                |                            |
| 09-2220                                | 1 110 2500 1551  |            | U          | 0,01       | IO DOO LL     |                        |                        |             |                         |              |                              | 200 LL, 1 110 L000 1001        |                            |

# **3-Month Rolling Programme (November 2022)**

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環境保護署 Environmental Protection Departm

Duratio Process Building (Module 1) Tipping Hall (Subzone 1&2) 30-Nov-22 08-Dec-22, Pile Load Test 09-2200 0% 30-Nov-22 08-Dec-22 28-Dec-22 05-Jan-23 28 Process Building (Module 2) Tipping Hall (Subzone 13) 09-2250 Pile Load Test 0% 30-Nov-22 07-Dec-22 21-Jan-23 29-Jan-23 53 30-Nov-22 07-Dec-22, Pile Load Tes 30-Nov-22 08-Jan-23 12-Dec-22 20-Jan-23 Process Building (Module 1) Tipping Hall 40 Excavation to Pile Cap Formation 0% 30-Nov-22 24-Dec-22 12-Dec-22 05-Jan-23 30-Nov-22 24-Dec-22, Excavation to Pile Cap Formation 25 25 09-1180 12 09-Dec-22 **09-1190** 0% 09-Dec-22 27-Dec-22 21-Dec-22 08-Jan-23 27-Dec-22, Pile Cut-off & Capping Plate (76 nrs, 4nr/d) Pile Cut-off & Capping Plate (76 nrs, 4nr/d) 19 08-Jan-23, Pile Caps Construction (26nrs 8set @ **—** 09-1200 Pile Caps Construction (26nrs 8set @ 1/7d) 23 0% 17-Dec-22 08-Jan-23 29-Dec-22 20-Jan-23 17-Dec-22 23 12 Process Building (Module 1) Bunker 19-Sep-22 A 14-Jan-23 30-Nov-22 14-Jan-23 Excavation to Pile Cap Formation 44% 19-Sep-22 A 13-Dec-22 30-Nov-22 13-Dec-22 Excavation to Pile Cap Formation, 13-Dec-22, 13-Dec-22, Excavation to Pile 09-1200-1 25 20-Dec-22, Pile Cut-off & Capping Plate 09-2400 Pile Cut-off & Capping Plate 19 0% 02-Dec-22 20-Dec-22 20-Dec-22 07-Jan-23 09-2410 Pile Caps and Raft Foundation Construction (50m x 36m 4set @100m2/7d) 32 32 0% 14-Dec-22 14-Jan-23 14-Dec-22 14-Jan-23 14-Jan-23. Pile Caps and Raft Foundation 11-Mar-23 Process Building (Module 2) Tipping Hall 25-Dec-22 28-Jan-23 05-Feb-23 18-Jan-23, Excavation to Pile Cap Form 25-Dec-22 Excavation to Pile Cap Formation 25 0% 25-Dec-22 18-Jan-23 05-Feb-23 01-Mar-23 **9-1210** 25 42 09-1220 Pile Cut-off & Capping Plate (51 nrs, 4nr/d) 13 0% 09-Jan-23 21-Jan-23 20-Feb-23 04-Mar-23 42 09-Jan-23 21-Jan-23, Pile Cut-off & Capping P 09-Jan-23 28-Jan-23, Pile Caps Consti 09-1230 Pile Caps Construction (22nrs 8set @ 1/7d) 20 0% 09-Jan-23 28-Jan-23 20-Feb-23 11-Mar-23 42 Process Building (Module 2) Bunker 08-Dec-22 18-Jan-23 29-Jan-23 11\_Mar\_23 Pile Cut-off & Capping Plate (207 nrs, 8nr/d) 0% 08-Dec-22 04-Jan-23 29-Jan-23 25-Feb-23 08-Dec-22 04-Jan-23, Pile Cut-off & Capping Plate (207 nrs, 8nr/ 09-2380 27 27 53 18-Jan-23, Pile Caps and Raft Foundati — 09-2390 Pile Caps and Baft Foundation Construction (50m x 36m 4set @100m2/7d) 0% 13-Dec-22 18-Jan-23 03-Feb-23 11-Mar-23 53 13-Dec-22 36 16-Dec-22 30-Jan-23 12-Feb-23 Excavation to Pile Raft Foundation Formation 10-Jan-23, Excavation to Pile Raft Foundation 09-1240 25 0% 16-Dec-22 10-Jan-23 01-Jan-23 26-Jan-23 20-Jan-23, Excavation to Pile Cap Fo Excavation to Pile Cap Formation — 09-2550 25 25 0% 26-Dec-22 20-Jan-23 08-Jan-23 02-Feb-23 09-2560 17-Jan-23 23-Jan-23, Pile Cut-off & Capping Pile Cut-off & Capping Plate (22 nrs, 4nr/d) 0% 17-Jan-23 23-Jan-23 30-Jan-23 05-Feb-23 30-Jan-23, Pile Caps Const 12-Jan-23 09-2570 Pile Caps Construction (5nrs 2set @ 1/7d) 0% 12-Jan-23 30-Jan-23 25-Jan-23 12-Feb-23 18 14 21-Sep-22 A 20-Mar-23 Process Building - Boiler & Flue Gas Treatment Bld Foundation Process Building Boiler Building & Flue Gas Foundation Process Building (Module 3) Pile Cap Stage 3 21-Sep-22 A 29-Jan-23 24-Nov-22 23-Jan-23 Excavation to Pile Cap Formation 12 73.33% 21-Sep-22 A 11-Dec-22 24-Nov-22 05-Dec-22 Excavation to Pile Cap Formation, 11-Dec-22, 11-Dec-22, Excavation to Pile C 09-1460 45 -6 Pile Cut-off;& Capping Plate (376 nrs, 10nr/d), 18-Dec-22, 18-Dec-22, **9-1470** Pile Cut-off & Capping Plate (376 nrs. 10nr/d) 78.95% 19-Oct-22 A 18-Dec-22 05-Dec-22 12-Dec-22 44 49 43% 29-Oct-22 A 29-Jan-23 11-Dec-22 23-Jan-23 Pile Caps Construction (52) 09-1480 Pile Caps Construction (52 prs. 4set @1/7d) 87 RC Base Slab **10-1600** Base Slab Stage 3 (Module 3) 0% 30-Jan-23 20-Mar-23 24-Jan-23 14-Mar-23 24-Oct-22 A 26-Jan-23 11-Nov-22 07-Jan-23 ACC Equipment Foundation **9-1670-1** Driven H Pile Installations at Zone 2 (30 nrs ~55m(D), @60m/d 2 Groups) (Module 1) 50% 24-Oct-22 A 13-Dec-22 11-Nov-22 24-Nov-22 Driven H Pile Installations at Zone 2 (30 nrs ~55m(D), @60m/d 2 Groups) (N 27-Dec-22. Driven H Pile Installations at Zone 4 (31 nrs ~55n — 09-1670-12(6F) Driven H Pile Installations at Zone 4 (31 nrs ~55m(D), @60m/d 2 Groups) (Module 1) 0% 30-Nov-22 27-Dec-22 11-Nov-22 08-Dec-22 28 28 -19 30-Nov-22 ACC Pile Cap Cor Excavation to Pile Cap Formation (Module 1) 0% 14-Dec-22 27-Dec-22 25-Nov-22 27-Dec-22, Excavation to Pile Cap Formation (Module 1) 19-Dec-22 **9-1700** 18 0% 19-Dec-22 05-Jan-23 30-Nov-22 17-Dec-22 05-Jan-23, Pile Cut-off & Capping Plate (Module 1 Pile Cut-off & Capping Plate (Module 1) 18 -19 **a** 09-1710 Pile Caps Construction (Module 1) 0% 14-Dec-22 12-Jan-23 25-Nov-22 24-Dec-22 12-Jan-23, Pile Caps Construction (Module 30 26-Jan-23, Tie Beam's Constru **09-1710-1(6)** Tie Beam's Construction (Module 1 @+6.5mPD) 30 30 0% 28-Dec-22 26-Jan-23 09-Dec-22 07-Jan-23 -19 31-May-22 25-Jan-23 **Turbine Hall Bld Foundation** Turbine Hall Piling Works (Driven H-pile Driven H Pile Installations (143 nrs ~55m(D), @60m/d 2 Groups) Driven H Pile Installations (143 nrs ~55m(D), @60m/d 2 Groups), 01-Dec-22, 01-Dec-22 97.06% 31-May-22 01-Dec-22 11-Noy-22 12-Noy-22 09-1730-1(M55) 68 Nov-22 A Pile Load Test, 05-Dec-22, 05-Dec-22, Pile Load Test **09-1740** 50% 15-Nov-22 A 05-Dec-22 13-Nov-22 16-Nov-22 -19 Turbine Hall Pile Caps Construction **9** 09-1750 Excavation to Pile Cap Formation 0% 06-Dec-22 26-Dec-22 17-Nov-22 07-Dec-22 06-Dec-22 26-Dec-22. Excavation to Pile Cap Formation 21 21 -19 **a** 09-1760 Pile Cut-off & Capping Plate (219 nrs, @10nr/d) 0% 11-Dec-22 31-Dec-22 26-Nov-22 16-Dec-22 11-Dec-22 31-Dec-22, Pile Cut-off & Capping Plate (219 nrs, @10nr 21 Pile Caps and Ground Beam Construction for TBS1 & Electrical Bld to +6.3mPD 11-Jan-23, Pile Caps and Ground Beam Cons **9-1770** 0% 13-Dec-22 11-Jan-23 24-Nov-22 23-Dec-22 30 -19 13-Dec-22 Install anchor bolts for TBS1 @+6.3mPD (Post-drilling) 09-1770-1(M58) 0% 12-Jan-23 25-Jan-23 28-Jan-23 10-Feb-23 25-Jan-23, Install anchor bolts f 16 Compressor & CCCW Bld Foundation 26-Nov-22 A 03-Dec-22 lov-22 A, 26-Nov-22 A 03-Dec-22, Pile Load Test, Pile Load Test, 03-Dec-22 **09-2330** Pile Load Test 4 50% 26-Nov-22 A 03-Dec-22 11-Mar-23 14-Mar-23 101 MT Plant & WT Bld Foundation 27-Oct-22 A 06-Mar-23 MT Plant & WT Bld Piling Works Predrilling for Driven Pile founding determination (56nr ~60m, @15m/d, 8 Rigs) 28 75% 27-Oct-22 A 06-Dec-22 16-Nov-22 22-Nov-22 ■ Predrilling for Driven Pile founding determination (56nr ~60m, @15m/d, 8 Rigs), 06 **09-1860(6)** 09-1870-1(M54) 0% 07-Dec-22 06-Mar-23 23-Nov-22 20-Feb-23 07-Dec-22 Driven H Pile Installations (120 nrs ~45m(D), @60m/d 1 Group) 90 IWMF Substation Building Foundation 17-Oct-22 A 15-Mar-23 11-Dec-22 26-Mar-23 Predrilling for Driven Pile founding determination (15nr ~60m, @15m/d, 4 Rigs) 46.67% 17-Oct-22 A 07-Dec-22 11-Dec-22 18-Dec-22 07-Dec-22, Predrilling for Driven Pile founding determination (15nr ~60m, @15m/c **09-1970(6) 09-1980** Driven H Pile Installations (120 nrs ~60m(D), @60m/d 2 Groups) 0% 08-Dec-22 05-Feb-23 19-Dec-22 16-Feb-23 Remaining Work Actual Milestone

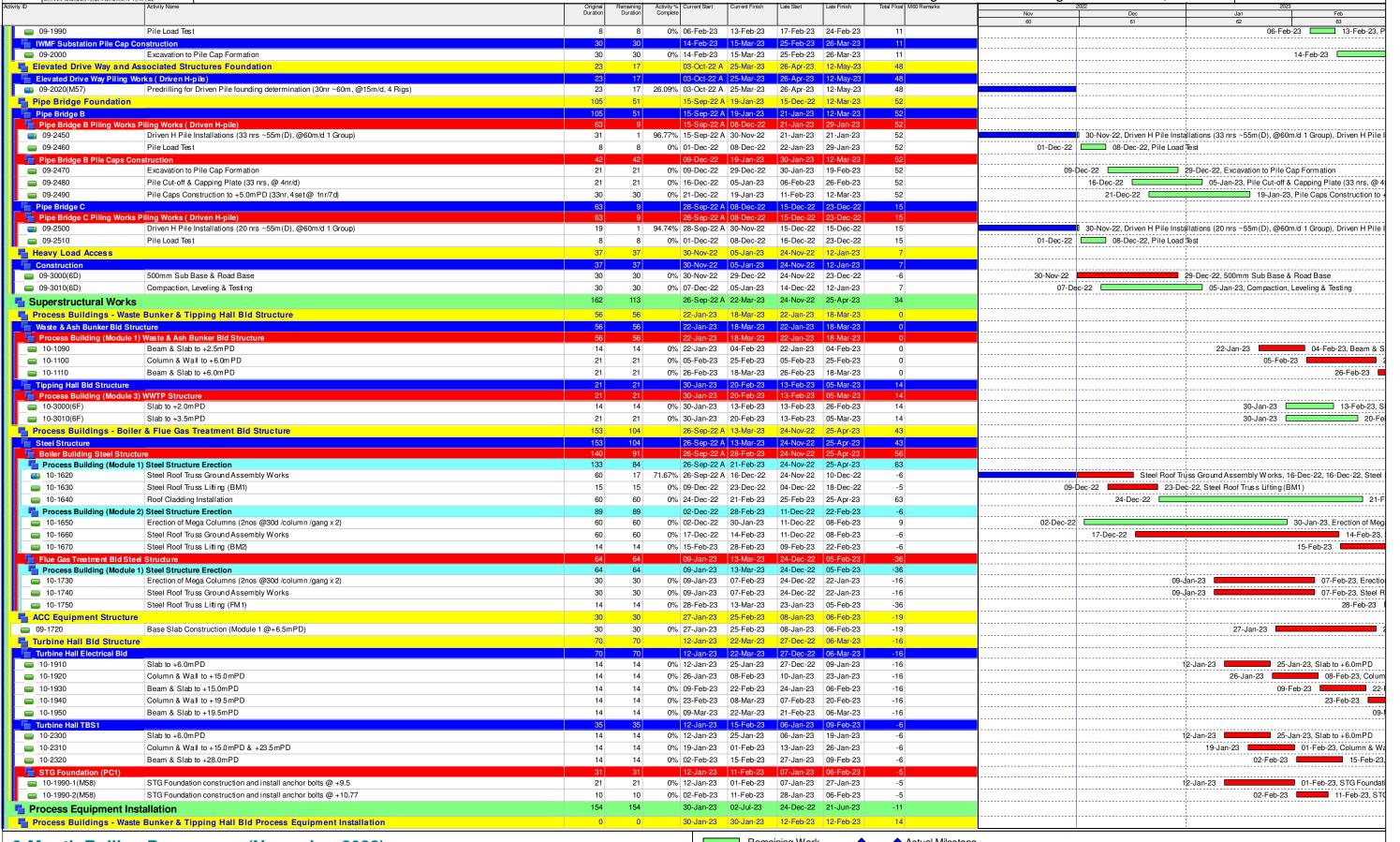
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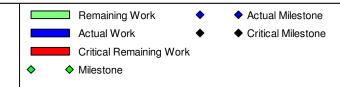


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| ity ID                | Activity Name   | Original | Remaining |      |                        | Current Finish                  | Late Start | Late Finish | Total Float M60 Remarks | 2022 |     | 2023           |                     |
|-----------------------|---|----------|-----------|------|------------------------|---------------------------------|------------|-------------|-------------------------|------|-----|----------------|---------------------|
|                       |   | Duration | Duration  | Cor  | mplete                 |                                 |            |             |                         | Nov  | Dec | Jan            | Feb                 |
|                       |   |          |           |      | 00.100                 | 00.100                          | 40 E L 00  | 40 5 1 00   | 1.1                     | 60   | 61  | 62             | 63                  |
|                       | ent Installation and Connection Works   | 0        | 0         |      | 30-Jan-23<br>30-Jan-23 | 30-Jan-23                       |            |             | 14                      |      |     |                |                     |
| Process Building (\   |   | 0        | 0         |      |                        |                                 | 12-Feb-23  | 12-Feb-23   | 14                      |      |     | ;<br>          |                     |
| 12-3120(6F)           | Delivery of Embeded Piping above +2 to +10mPd                                       | 0        | 0         |      | 0%                     | 30-Jan-23                       |            | 12-Feb-23   | 14                      |      |     | · <del> </del> | Delivery of Embeded |
|                       | s - Boiler House & Flue Gas Treatment Bld Process Equipment Installation            | 132      | 132       |      | 21-Feb-23              | 02-Jul-23                       | 24-Dec-22  |             | -11                     |      |     | ļ              |                     |
| <del>_</del>          | nstallation TPU Module)   | 132      | 102       |      | 21-Feb-23              | 02-Jul-23                       |            |             | -11                     |      |     |                |                     |
| TPU Train 1           |   | 126      | 126       |      | 21-Feb-23              |                                 | 24-Dec-22  |             | -5                      |      |     |                |                     |
| 13-1030               | Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 1)   | 6        | 6         |      | 0% 21-Feb-23           |                                 | 24-Dec-22  |             | -59                     |      |     |                | 21-Feb-23           |
| 13-1050               | Remaining Equipment Installation at GL  | 120      | 120       |      | 0% 27-Feb-23           | 26-Jun-23                       | 22-Feb-23  | 21-Jun-23   | -5                      |      |     | <br>           | 27-Fe               |
| TPU Train 2           |   | 126      | 126       |      | 27-Feb-23              | 02-Jul-23                       | 30-Dec-22  |             | -11                     |      |     | i i            |                     |
| <b>13-1120</b>        | Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 2)   | 6        | 6         |      | 0% 27-Feb-23           | 04-Mar-23                       | 30-Dec-22  | 04-Jan-23   | -59                     |      |     | <u> </u>       | 27-Fe               |
| <b>13-1140</b>        | Remaining Equipment Installation at GL  | 120      | 120       |      | 0% 05-Mar-23           | 02-Jul-23                       | 22-Feb-23  | 21-Jun-23   | -11                     |      |     |                |                     |
| Process Building (In  | nstallation of Flue Gas Module)   | 13       | 13        |      | 06-Apr-23              | 18-Apr-23                       | 06-Feb-23  | 18-Feb-23   | -59                     |      |     |                |                     |
| FGC Train 1           |   | 6        | 6         |      | 06-Apr-23              | 11-Apr-23                       | 06-Feb-23  | 11-Feb-23   | -59                     |      |     | [              |                     |
| <b>13-1570</b>        | Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 1) | 6        | 6         |      | 0% 06-Apr-23           | 11-Apr-23                       | 06-Feb-23  | 11-Feb-23   | -59                     |      |     |                |                     |
| FGC Train 2           |   | 6        | 6         |      | 13-Apr-23              | 18-Apr-23                       | 13-Feb-23  | 18-Feb-23   | -59                     |      |     |                |                     |
| <b>13-1640</b>        | Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 2) | 6        | 6         |      | 0% 13-Apr-23           | 18-Apr-23                       | 13-Feb-23  | 18-Feb-23   | -59                     |      |     |                |                     |
| ACC Equipment In      | estallation   | 114      | 114       |      | 05-Mar-23              | 26-Jun-23                       | 14-Feb-23  | 07-Jun-23   | -19                     |      |     | !              |                     |
| ACC Unit 1 Installati | ion   | 114      | 114       |      | 05-Mar-23              | 26-Jun-23                       | 14-Feb-23  | 07-Jun-23   | -19                     |      |     | ·;             |                     |
| 13-2000               | Site preparation & Installation of ACC Equipment (unit 1)                           | 114      | 114       |      | 0% 05-Mar-23           | 26-Jun-23                       | 14-Feb-23  | 07-Jun-23   | -19                     |      |     | 1              | (                   |
| Turbine Hall Bld E    | quipment Installation   | 61       | 61        |      | 19-Feb-23              | 20-Apr-23                       | 13-Feb-23  | 14-Apr-23   | -6                      |      |     |                |                     |
| Turbine Hall Module   |   | 61       | 61        |      | 19-Feb-23              | 20-Apr-23                       | 13-Feb-23  | 14-Apr-23   | -6                      |      |     |                |                     |
| 13-2120               | STG and TBS Module 1 Installation   | 60       | 60        |      | 0% 20-Feb-23           | 20-Apr-23                       | 14-Feb-23  | 14-Apr-23   | -6                      |      |     | ·              | 20-Feb-23*          |
| 13-2160(6)            | Install Maintenance Girder & Crane at Module 1 @+22.247mPd                          | 30       | 30        |      | 0% 19-Feb-23           | 20-Mar-23                       | 13-Feb-23  | 14-Mar-23   | -6                      |      |     | ·;             | 19-Feb-23           |
|                       |   | 285      | 163       |      |                        | A 11-May-23                     | 27-Feb-23  | 28-Sen-23   | 140                     |      |     |                |                     |
| • •                   | rnal Road and Drains Works  |          |           |      |                        |                                 |            |             | 117                     |      |     |                |                     |
| Drainage Works        |   | 60       | 60        |      | 13-Mar-23              |                                 | 27-Feb-23  |             | -14                     |      |     | ;<br>          |                     |
| Box Culvert           |   | 60       | 60        |      | 13-Mar-23              | · · · · · · · · · · · · · · · · | 27-Feb-23  | 27 7 PF 20  | -14                     |      |     | ļ              |                     |
| _East Culvert (3.5m   |   | 60       | 60        |      | 13-Mar-23              | ,                               | 27-Feb-23  |             | -14                     |      |     | -              |                     |
| 14-2000               | Excavation to Formation   | 60       | 60        |      | 0% 13-Mar-23           | , ==                            | 27-Feb-23  |             | -14                     |      |     |                |                     |
| Earthing System       |   | 180      | 140       |      | - P                    | A 18-Apr-23                     | 12-May-23  | 28-Sep-23   | 163                     |      |     |                |                     |
| 16-1900-2(6)          | Installation of Ground Earthing Mesh  | 180      | 140       | 22.2 | 22% 28-Apr-22          | A 18-Apr-23                     | 12-May-23  | 28-Sep-23   | 163                     |      |     |                |                     |

**3-Month Rolling Programme (November 2022)** 

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| Contract No. EP/SP/66/12                      |   |
|---|---|
| Integrated Waste Management Facilities, Phase | 1 |

Keppel Seghers – Zhen Hua Joint Venture

# Appendix B Summary of Implementation Status of Environmental Mitigation

#### Appendix B

Table B.1 Implementation Schedule for Air Quality Measures for the IWMF at the artificial island near SKC

|         |   |                                |                         | Imple | ementa | ation S | tages* |   | Implementation                                    |  |
|---------|---|--------------------------------|-------------------------|-------|--------|---------|--------|---|---|--|
| EIA Ref | Environmental Protection<br>Measures / Mitigation Measures  | Location /<br>Timing           | Implementation<br>Agent | Des   | С      | 0       | Dec    | Legislation<br>and<br>Guidelines                              | Status and<br>Remarks                             |  |
| S3b.8.1 | Air Pollution Control (Construction Dust) Regulation & Good Site Practices   Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.  Use of frequent watering for particularly dusty construction areas and areas close to ASRs.  Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.  Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.  Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.  Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.  Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading | During the construction period | Contractor              |       | *      |         |        | Air Pollution<br>Control<br>(Construction<br>Dust) Regulation | Measures but rectified by the Contractor. N/A for |  |

|         | E  | Lagation /  |                         | Imple    | ementa | ation S  | tages* | Relevant                               | Implementation        |
|---------|--|---|-------------------------|----------|--------|----------|--------|--|-----------------------|
| EIA Ref | Environmental Protection Measures / Mitigation Measures  | Location /<br>Timing  | Implementation<br>Agent | Des      | С      | 0        | Dec    | Legislation<br>and<br>Guidelines       | Status and<br>Remarks |
|         | <ul> <li>points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.</li> <li>Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit.</li> <li>Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs</li> <li>Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.</li> </ul> |   |                         |          |        |          |        |  |                       |
| S3b.6.3 | Deodorizers with 95% odour removal efficiency would be installed for the air ventilated from the mechanical treatment plant before discharge to the atmosphere   | Waste reception halls, the waste storage area, the mechanical treatment plant / During design & operation phase | IWMF Operator           | <b>V</b> |        | <b>✓</b> |        | EIAO-TM                                | N/A                   |
| S3b.8.2 | Air Pollution Control and Stack Monitoring   | IWMF stack<br>emissions /<br>During   | IWMF Operator           | <b>√</b> |        | <b>✓</b> |        | EIAO-TM,<br>Supporting<br>Document for | N/A                   |

|         |   |                          |                         | Impl | ement | ation S | stages* | Relevant  | Implementation        |
|---------|---|--------------------------|-------------------------|------|-------|---------|---------|---|-----------------------|
| EIA Ref | Environmental Protection Measures / Mitigation Measures   | Location /<br>Timing     | Implementation<br>Agent | Des  | С     | 0       | Dec     | Legislation<br>and<br>Guidelines                                | Status and<br>Remarks |
|         | <ul> <li>Air pollution control and stack monitoring system will be installed for the IWMF to ensure that the emissions from the IWMF stack will meet the proposed target emission limits.</li> <li>Voluntary Enhancement Measures in Flue Gas Cleaning and Emission Monitoring:         <ol> <li>Two-stage bag filter system with reagent recirculation;</li> <li>In addition to SCR, provide SNCR for removal of NOx; tighten emission limit for half-hourly and daily NOx to 160 mg/m³ and 80 mg/m³ respectively;</li> <li>Well-mixed feed waste: to minimize the fluctuation of pollutant loading on the flue gas treatment system;</li> <li>Two more AQMSs would be set up at South Lantau and Shek Kwu Chau respectively;</li> <li>Limit levels will be set under the IWMF DBO contract to require that waste feed shall cease if any of the air pollutant has exceeded 95% of the emission concentration limit as stipulated in the Special Process license; and</li> </ol> </li> </ul> | design & operation phase |                         |      |       |         |         | Application for Variation of Environmental Permit (EP-429/2012) |                       |

|         |  |   |                         | Imple | ementa | ation S | tages* | Relevant   | Implementation        |
|---------|--|---|-------------------------|-------|--------|---------|--------|--|-----------------------|
| EIA Ref | Environmental Protection Measures / Mitigation Measures  | Location /<br>Timing  | Implementation<br>Agent | Des   | С      | 0       | Dec    | Legislation<br>and<br>Guidelines   | Status and<br>Remarks |
|         | <ol> <li>Each incineration chamber shall<br/>be fitted with auxiliary burners to<br/>ensure complete burn out of the<br/>combustion gases.</li> </ol>  |   |                         |       |        |         |        |  |                       |
|         | Treated Fly Ash and Air Pollution Control Residues:  • During testing and commissioning, the Contractor shall sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months.  • During the first six months of operation, if the requirements in (a) could be fully conformed with, the Contractor shall sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 | IWMF stack<br>emissions /<br>During<br>design &<br>operation<br>phase | IWMF Operator           |       |        |         |        | Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012) | N/A                   |

| EIA Ref    Contractor shall take two samples from each shipload for testing and the Contractor shall not dispose of any of that shipload of treated fly ash and air pollution confirm that the two samples confirm that the two samples confirm that the two samples confirm to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformation Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  | _                    |   | Imple | ementa | ation S | tages* | Relevant | Implementation |  |
|---|---------|--|----------------------|---|-------|--------|---------|--------|----------|----------------|--|
| Contractor shall take two samples from each shipload for testing and the Contractor shall not dispose of any of that shipload of treated fly ash and air pollution control residues until the test results confirm that the two samples conform to the limits and the criteria. If a test result confirms that any one of the two samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues for conformance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from | EIA Ref | Environmental Protection<br>Measures / Mitigation Measures | Location /<br>Timing | - | Des   | С      | 0       | Dec    | l l      | Status and     |  |
| from each shipload for testing and the Contractor shall not dispose of any of that shipload of treated fly ash and air pollution control residues until the test results confirm that the two samples conform to the limits and the criteria. If a test result confirms that any one of the two samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  • Provided that there is no non-conformance to the Incineration Residue Pollution Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from  |         |  |                      |   |       |        |         |        |          |                |  |
| the Contractor shall not dispose of any of that shipload of treated fly ash and air pollution control residues until the test results confirm that the two samples conform to the limits and the criteria. If a test result confirms that any one of the two samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no nonconformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from  |         |  |                      |   |       |        |         |        |          |                |  |
| any of that shipload of treated fly ash and air pollution control residues until the test results confirm that the two samples conform to the limits and the criteria. If a test result confirms that any one of the two samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  • Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| and air pollution control residues until the test results confirm that the two samples conform to the limits and the criteria. If a test result confirms that any one of the two samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non- conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from  |         |  |                      |   |       |        |         |        |          |                |  |
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| criteria. If a test result confirms that any one of the two samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no nonconformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| any one of the two samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         | ·  |                      |   |       |        |         |        |          |                |  |
| conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  • Provided that there is no nonconformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval.Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no nonconformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval.Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no nonconformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval.Two samples from   |         | ·  |                      |   |       |        |         |        |          |                |  |
| treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval.Two samples from  |         | ·  |                      |   |       |        |         |        |          |                |  |
| control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non- conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval.Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  • Provided that there is no nonconformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non- conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval.Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.  • Provided that there is no nonconformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| the time to sample and test treated fly ash and air pollution control residues before disposal.  Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from  |         |  |                      |   |       |        |         |        |          |                |  |
| ash and air pollution control residues before disposal.  Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from  |         |  |                      |   |       |        |         |        |          |                |  |
| before disposal.  Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from  |         |  |                      |   |       |        |         |        |          |                |  |
| of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval.Two samples from  |         |  |                      |   |       |        |         |        |          |                |  |
| period in the Operation Period, the testing frequency shall be reduced to monthly interval.Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| testing frequency shall be reduced to monthly interval.Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
| monthly interval.Two samples from   |         |  |                      |   |       |        |         |        |          |                |  |
|   |         |  |                      |   |       |        |         |        |          |                |  |
| one shininga of treated IIV ash and air   |         | one shipload of treated fly ash and air                    |                      |   |       |        |         |        |          |                |  |

|         |  |   |                         | Imple | ementa | ation S  | tages* | Relevant   | Implementation        |
|---------|--|---|-------------------------|-------|--------|----------|--------|--|-----------------------|
| EIA Ref | Environmental Protection<br>Measures / Mitigation Measures   | Location /<br>Timing  | Implementation<br>Agent | Des   | С      | 0        | Dec    | Legislation<br>and<br>Guidelines   | Status and<br>Remarks |
|         | pollution control residues shall be collected and tested for conformance to the Incineration Residue Pollution Control Limits and leachability criteria. The Contractor shall not dispose of any of the treated fly ash and air pollution control residues in the shipload which the samples are taken until the test results confirm that the samples conform to the limits and the criteria. If the test result confirm that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit for the next six months. |   |                         |       |        |          |        |  |                       |
| -       | During testing and commissioning, the Contractor shall sample and test every container of bottom ash for conformance to the leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test every  | IWMF stack<br>emissions /<br>During<br>design &<br>operation<br>phase | IWMF Operator           | •     |        | <b>✓</b> |        | Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012) | N/A                   |

|         |   | Location (           |                         | Imple | ementa | ation S | tages* | Relevant                         | Implementation        |
|---------|---|----------------------|-------------------------|-------|--------|---------|--------|----------------------------------|-----------------------|
| EIA Ref | Environmental Protection<br>Measures / Mitigation Measures            | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec    | Legislation<br>and<br>Guidelines | Status and<br>Remarks |
|         | container of bottom ash for   |                      |                         |       |        |         |        |                                  |                       |
|         | conformance to the leachability criteria for the next six months.     |                      |                         |       |        |         |        |                                  |                       |
|         | <ul> <li>During the first six months of</li> </ul>                    |                      |                         |       |        |         |        |                                  |                       |
|         | operation, if the requirements in (d)                                 |                      |                         |       |        |         |        |                                  |                       |
|         | could be fully conformed with, the                                    |                      |                         |       |        |         |        |                                  |                       |
|         | Contractor shall sample and test                                      |                      |                         |       |        |         |        |                                  |                       |
|         | one shipload of bottom ash each                                       |                      |                         |       |        |         |        |                                  |                       |
|         | month for conformance to the  |                      |                         |       |        |         |        |                                  |                       |
|         | leachability criteria shown in Table 2                                |                      |                         |       |        |         |        |                                  |                       |
|         | of the Environmental Permit. The                                      |                      |                         |       |        |         |        |                                  |                       |
|         | Contractor shall take two samples                                     |                      |                         |       |        |         |        |                                  |                       |
|         | from the shipload for testing and the                                 |                      |                         |       |        |         |        |                                  |                       |
|         | Contractor shall not dispose of any                                   |                      |                         |       |        |         |        |                                  |                       |
|         | of that shipload of bottom ash until                                  |                      |                         |       |        |         |        |                                  |                       |
|         | the test results confirm that the two                                 |                      |                         |       |        |         |        |                                  |                       |
|         | samples conform to the criteria. If a                                 |                      |                         |       |        |         |        |                                  |                       |
|         | test result confirms that any one of the two samples does not conform |                      |                         |       |        |         |        |                                  |                       |
|         | to the criteria, the Contractor shall                                 |                      |                         |       |        |         |        |                                  |                       |
|         | be required to sample and test each                                   |                      |                         |       |        |         |        |                                  |                       |
|         | shipload of bottom ash for  |                      |                         |       |        |         |        |                                  |                       |
|         | conformance to the leachability                                       |                      |                         |       |        |         |        |                                  |                       |
|         | criteria for the next six months. The                                 |                      |                         |       |        |         |        |                                  |                       |
|         | Contractor shall make due   |                      |                         |       |        |         |        |                                  |                       |
|         | allowance in the Design and the                                       |                      |                         |       |        |         |        |                                  |                       |
|         | Operation for the time to sample and                                  |                      |                         |       |        |         |        |                                  |                       |
|         | test bottom ash before disposal.                                      |                      |                         |       |        |         |        |                                  |                       |
|         | <ul> <li>Provided that there is no non-</li> </ul>                    |                      |                         |       |        |         |        |                                  |                       |
|         | conformance to the leachability                                       |                      |                         |       |        |         |        |                                  |                       |
|         | criteria shown in Table 2 of the                                      |                      |                         |       |        |         |        |                                  |                       |
|         | Environmental Permit throughout a                                     |                      |                         |       |        |         |        |                                  |                       |
|         | continuous six month period in the                                    |                      |                         |       |        |         |        |                                  |                       |

|         | Environmental Protection   |                      | Imple                   | ementa | ation S | tages* | Relevant | Implementation                   |                       |
|---------|--|----------------------|-------------------------|--------|---------|--------|----------|----------------------------------|-----------------------|
| EIA Ref | Environmental Protection Measures / Mitigation Measures  | Location /<br>Timing | Implementation<br>Agent | Des    | С       | 0      | Dec      | Legislation<br>and<br>Guidelines | Status and<br>Remarks |
|         | Operation Period, the Contractor shall be allowed to take two samples from any one shipload of bottom ash once every six months for conformance to the leachability criteria. The Contractor shall not dispose of any of the bottom ash in the shipload which the samples are taken until the test results confirm that the samples conform to the criteria. If the test result confirm that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test one shipload of bottom ash each month for conformance to the leachability criteria shown in Table 2 of the Environmental Permit for the next six months as stipulated above. |                      |                         |        |         |        |          |                                  |                       |

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Integrated Waste Management Facilities, Phase 1

Table B.2 Implementation Schedule for Noise Impact Measures for the IWMF at the artificial island near SKC

| EIA Ref          | Environmental Protection<br>Measures / Mitigation Measures  | Location /<br>Timing                   |                     |       | Implementation Stages* |   |          |     | Relevant                         |                                      |
|------------------|---|--|---------------------|-------|------------------------|---|----------|-----|----------------------------------|--------------------------------------|
|                  |   |  | Implementa<br>Agent | ition | Des                    | С | 0        | Dec | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks |
| S4b.8            | Good site practices to limit noise emissions a source and use of quiet plant and working methods, whenever practicable.   | Work Sites /<br>Construction<br>Period | EPD and contractors | its   |                        | ✓ |          |     | EIAO-TM                          | Implemented                          |
| S4b.6<br>& S4b.8 | All the ventilation fans installed in the below will be provided with silencers or acoustics treatment.  (i) Stack of the incinerator  (ii) Ventilation systems within the IWMF Enclosure and discharge silencer or other acoustic treatment equipment should be installed in the air-cooled chillers  Other than provision of silencer or other acoustic treatment equipment for the stack of the incinerator and ventilation system, the detailed design should incorporate the following good practice in order to minimize the nuisance on the neighboring NSRs.  (i) The exhaust of the ventilation system and any opening of the building should be located facing away from any NSRs; and  (ii) Louver or other acoustic treatment equipment could also be applied to the exhaust of the ventilation system. | Within IWMF area / Construction Period | EPD and contractors | its   | *                      |   | <b>V</b> |     | EIAO-TM                          | N/A                                  |

|         | E   | 1                                     |  | ementa   | ation St | ages* | Relevant | Immlementation Status  |                                      |
|---------|---|---------------------------------------|--|----------|----------|-------|----------|--|--------------------------------------|
| EIA Ref | Environmental Protection Measures / Mitigation Measures   | Measures / Mitigation Measures Timing | Implementation<br>Agent                      | Des      | С        | 0     | Dec      | Legislation<br>and<br>Guidelines   | Implementation Status<br>and Remarks |
| -       | Voluntary Enhancement Measure     Provision of air-conditioner and double glazed windows to nearby NSR at Shek Kwu Chau (i.e. SARDA) as precautionary measures. |                                       | Design team,<br>contractor, IWMF<br>operator | <b>✓</b> | <b>✓</b> |       |          | Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012) | Implemented                          |

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table B.3 Implementation Schedule for Water Quality Measures for the Artificial Island near SKC

|           | Environmental Protection<br>Measures / Mitigation<br>Measures  |   |                         | Imple | ementa   | ation S | tages* |                                      |   |
|-----------|--|---|-------------------------|-------|----------|---------|--------|--------------------------------------|---|
| EIA Ref   |  | Location /<br>Timing                                | Implementation<br>Agent | Des   | С        | 0       | Dec    | Legislation<br>and<br>Guidelines     | Implementation Status and Remarks                                       |
| S5b.8.1.1 | Drainage and Construction Site Runoff  The site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. These practices include the following items:  | Work site /<br>During the<br>construction<br>period | Contractor              |       | <b>√</b> |         |        | EIAO-TM;<br>ProPECC PN<br>1/94; WPCO | Deficiency of Mitigation<br>Measures but rectified by the<br>Contractor |
|           | At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented  |   |                         |       |          |         |        |                                      |   |
|           | Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction. |   |                         |       |          |         |        |                                      |   |
|           | Boundaries of earthworks should be<br>surrounded by dykes or embankments<br>for flood protection, as necessary.  |   |                         |       |          |         |        |                                      |   |
|           | <ul> <li>Sand/silt removal facilities such as<br/>sand/silt traps and sediment basins<br/>should be provided to remove sand/silt<br/>particles from runoff to meet the<br/>requirements of the TM-DSS. The</li> </ul>  |   |                         |       |          |         |        |                                      |   |

|         | Environmental Brotestics   |                      |                         | Imple | ementa | ation S | Stages* | Relevant                         |                                      |
|---------|--|----------------------|-------------------------|-------|--------|---------|---------|----------------------------------|--------------------------------------|
| EIA Ref | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec     | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks |
|         | design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The detailed design of the sand/silt traps shall be undertaken by the contractor prior to the commencement of construction. |                      |                         |       |        |         |         |                                  |                                      |
|         | Water pumped out from<br>foundation piles must be discharged<br>into silt removal facilities.  |                      |                         |       |        |         |         |                                  |                                      |
|         | <ul> <li>Measures should be taken to minimize<br/>the ingress of site runoff and drainage<br/>into excavations. Drainage water<br/>pumped out from excavations should<br/>be discharged into storm drains via silt<br/>removal facilities.</li> </ul>  |                      |                         |       |        |         |         |                                  |                                      |
|         | <ul> <li>During rainstorms, exposed slope/soil<br/>surfaces should be covered by a<br/>tarpaulin or other means, as far as<br/>practicable. Other measures that need<br/>to be implemented before, during and<br/>after rainstorms are summarized in<br/>ProPECC PN 1/94.</li> </ul>   |                      |                         |       |        |         |         |                                  |                                      |
|         | <ul> <li>Exposed soil areas should be<br/>minimized to reduce potential for<br/>increased siltation and contamination<br/>of runoff.</li> </ul>  |                      |                         |       |        |         |         |                                  |                                      |

| Environmental Protection |   |   |                         | Impl | ementa   | ation S | tages* | Relevant                             |                                      |
|--------------------------|---|---|-------------------------|------|----------|---------|--------|--------------------------------------|--------------------------------------|
| EIA Ref                  | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing                                | Implementation<br>Agent | Des  | С        | 0       | Dec    | Legislation<br>and<br>Guidelines     | Implementation Status<br>and Remarks |
|                          | Earthwork final surfaces should be well<br>compacted and subsequent permanent<br>work or surface protection should be<br>immediately performed.   |   |                         |      |          |         |        |                                      |                                      |
|                          | <ul> <li>Open stockpiles of construction<br/>materials or construction wastes on-site<br/>should be covered with tarpaulin or<br/>similar fabric during rainstorms.</li> </ul>  |   |                         |      |          |         |        |                                      |                                      |
|                          | General Construction Activities  Construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby watercourses and public drainage system. Rubbish and litter from construction sites should also be collected to prevent spreading of rubbish and litter from the site area. | Work site /<br>During the<br>construction<br>period | Contractor              |      | <b>✓</b> |         |        | EIAO-TM;<br>ProPECC PN<br>1/94; WPCO | Implemented                          |
|                          | It is recommended to clean the construction sites on a regular basis.   |   |                         |      |          |         |        |                                      |                                      |

|           |   |   |                         | Imple | ementa   | ation S | tages* | Relevant                                     | Implementation Status<br>and Remarks                              |
|-----------|---|---|-------------------------|-------|----------|---------|--------|--|---|
| EIA Ref   | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing                                | Implementation<br>Agent | Des   | С        | 0       | Dec    | Legislation<br>and<br>Guidelines             |   |
| S5b.8.1.3 | There is a need to apply to EPD for a discharge license for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge license. All the run-off and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on-site activities such as dust suppression and general cleaning etc., can minimize water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO license which is under the ambit of regional office of EPD. | During the construction                             | Contractor              |       | <b>V</b> |         |        | EIAO-TM;<br>ProPECC PN<br>1/94; WPCO         | Discharge License was issued on 15/02/2022                        |
| S5b.8.1.4 | Accidental Spillage  Contractor must register as a chemical waste producer if chemical wastes would be produced from construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.   | Work site /<br>During the<br>construction<br>period | Contractor              |       | <b>✓</b> |         |        | EIAO-TM;<br>ProPECC PN<br>1/94; WPCO;<br>WDO | Deficiency of Mitigation Measures but rectified by the Contractor |
| S5b.8.1.5 | Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas which   | During the construction                             | Contractor              |       | <b>√</b> |         |        | EIAO-TM;<br>ProPECC PN<br>1/94; WPCO;<br>WDO | Implemented   |

|           |   |                         |                         | Imple | ementa      | ation Stages* | Relevant  |
|-----------|---|-------------------------|-------------------------|-------|-------------|---------------|---|
| EIA Ref   | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing    | Implementation<br>Agent | Des   | С           | O Dec         | Legislation Implementation Status and Remarks Guidelines                        |
|           | appropriately equipped to control these discharges.   |                         |                         |       |             |               |   |
| S5b.8.1.6 | Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.   | During the construction | Contractor              |       | <b>&gt;</b> |               | ProPECC PN Measures but rectified by the 1/94; WPCO; WDO                        |
| S5b.8.1.7 |   | During the construction | Contractor              |       | <b>V</b>    |               | EIAO-TM; Deficiency of Mitigation Measures but rectified by the 1/94; WPCO; WDO |
|           | <ul> <li>Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.</li> <li>Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.</li> <li>Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul> |                         |                         |       |             |               |   |

|   |  |   |                         | Imple | Implementation Stages* Relevan |       |   |                                   |  |
|---|--|---|-------------------------|-------|--------------------------------|-------|---|-----------------------------------|--|
|   | nmental Protection<br>sures / Mitigation<br>Measures   | Location /<br>Timing                                | Implementation<br>Agent | Des   | С                              | O Dec | Legislation<br>and<br>Guidelines  | Implementation Status and Remarks |  |
| portable chen<br>employed on-s<br>handle sewage<br>licensed contra  | nitary facilities, such as mical toilets, should be site where necessary to a from the workforce. A ctor would be responsible.   | Work site /<br>During the<br>construction<br>period | Contractor              |       | <b>*</b>                       |       | EIAO-TM;<br>ProPECC PN<br>1/94; WPCO  | Implemented                       |  |
| should be co breakwaters a constructed an started within after the comple curtain should I blockwork duri prevent the loss.  • The maximum dredging for to layer shall now maximum daily out within its represent non-traction by the dredging S.2.18 of the Ferometric (no.:FEP-01/42) recommended small capacity dredging rate. | ed dredging and reclamation immenced in phases. The and seawalls should be did the reclamation should be the enclosed breakwaters letion of the breakwater. Silt be applied around caissons / ing the filling of the cell to sof fine in the filling material. In the anti-scouring protection into exceed the permitted of dredging rate and carried espective distance from the inslocatable coral community gig contractor as specified in further Environmental Permit | Work site / During the marine construction period   | Contractor              |       | <b>&gt;</b>                    |       | EIAO-TM;<br>WPCO,<br>Supporting<br>Document for<br>Application for<br>Variation of<br>Environmental<br>Permit (EP-<br>429/2012)<br>Further<br>Environmental<br>Permit No. FEP-<br>01/429/2012/A | N/A                               |  |

|         | Environmental Protection<br>Measures / Mitigation<br>Measures  |                      |                         | Imple | ement | ation S | Stages* | Relevant                         | Implementation Status<br>and Remarks |
|---------|--|----------------------|-------------------------|-------|-------|---------|---------|----------------------------------|--------------------------------------|
| EIA Ref |  | Location /<br>Timing | Implementation<br>Agent | Des   | С     | 0       | Dec     | Legislation<br>and<br>Guidelines |                                      |
|         | of the North Western seawall, away from the identified coral communities and will be shielded by silt curtains systems to control sediment plume dispersion.   |                      |                         |       |       |         |         |                                  |                                      |
|         | <ul> <li>The silt curtain system at marine access<br/>opening should be closed as soon as the<br/>barges passes through the marine access<br/>opening in order to minimize the period of<br/>curtain opening. Filling should only be<br/>carried out behind the silt curtain when the<br/>silt curtain is completely closed.</li> </ul>  |                      |                         |       |       |         |         |                                  |                                      |
|         | To enhance the effectiveness of the silt curtain at the marine access, the northern breakwater would be built before the commencement of the reclamation to reduce the current velocity towards the marine access opening.   |                      |                         |       |       |         |         |                                  |                                      |
|         | The silt curtain system at marine access<br>opening should be regularly checked and<br>maintained to ensure proper functioning.  |                      |                         |       |       |         |         |                                  |                                      |
|         | Where public fill is proposed for filling<br>below +2.5mPD, the fine content in the<br>public fill will be controlled to 25% which is<br>in line with the CEDD's General<br>Specification;   |                      |                         |       |       |         |         |                                  |                                      |
|         | <ul> <li>The filling for reclamation should be<br/>carried out behind the seawall. The filling<br/>material should only consist of public fill,<br/>rock and sand. The filling composition and<br/>filling rates at each filling area should follow<br/>those delineated in Table 1 of the FEP-<br/>01/429/2012/. The filling above high<br/>watermark is not restricted;</li> </ul> |                      |                         |       |       |         |         |                                  |                                      |

|         |   |                      |                         | Imple | ementa | ation S | Stages* | Relevant                         |                                      |
|---------|---|----------------------|-------------------------|-------|--------|---------|---------|----------------------------------|--------------------------------------|
| EIA Ref | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec     | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks |
|         | No dredging should be carried out within<br>16m to the nearest non-translocatable coral<br>community;   |                      |                         |       |        |         |         |                                  |                                      |
|         | Daily site audit including full-time on-site<br>monitoring by the ET is recommended<br>during the dredging for anti-scouring<br>protection layer for checking the compliance<br>with the permitted no. of grab; |                      |                         |       |        |         |         |                                  |                                      |
|         | <ul> <li>Closed grab dredger should be used to<br/>minimize the loss of sediment during the<br/>raising of the loaded grabs through the<br/>water column;</li> </ul>  |                      |                         |       |        |         |         |                                  |                                      |
|         | Frame-type silt curtains should be deployed around the dredging operations;   |                      |                         |       |        |         |         |                                  |                                      |
|         | Floating-type silt curtains should be used to surround the circular cell during the sheetpiling work;   |                      |                         |       |        |         |         |                                  |                                      |
|         | The descent speed of grabs should be<br>controlled to minimize the seabed impact<br>speed;  |                      |                         |       |        |         |         |                                  |                                      |
|         | Barges should be loaded carefully to avoid splashing of material;   |                      |                         |       |        |         |         |                                  |                                      |
|         | All barges used for the transport of<br>dredged materials should be fitted with tight<br>bottom seals in order to prevent leakage of<br>material during loading and transport;                                  |                      |                         |       |        |         |         |                                  |                                      |
|         | <ul> <li>All barges should be filled to a level which<br/>ensures that material does not spill over<br/>during loading and transport to the disposal<br/>site and that adequate freeboard is</li> </ul>         |                      |                         |       |        |         |         |                                  |                                      |

|           | Environmental Protection  |   |                         | Imple    | ementa | ation S  | tages* | Relevant                         |                                   |
|-----------|---|---|-------------------------|----------|--------|----------|--------|----------------------------------|-----------------------------------|
| EIA Ref   | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing  | Implementation<br>Agent | Des      | С      | 0        | Dec    | Legislation<br>and<br>Guidelines | Implementation Status and Remarks |
|           | maintained to ensure that the decks are not washed by wave action.  |   |                         |          |        |          |        |                                  |                                   |
|           | No DCM works should be carried out within<br>100m to the nearest non-translocatable coral<br>colony / colonies.   |   |                         |          |        |          |        |                                  |                                   |
|           | Silt curtains should be employed to<br>enclose DCM field trial and any full scale<br>DCM work to minimize the potential impacts<br>on water aspect.   |   |                         |          |        |          |        |                                  |                                   |
|           | <ul> <li>A sand blanket is to be placed on top of<br/>the marine deposit using tremie pipes prior<br/>to the DCM ground treatment to avoid<br/>seabed sediment disturbance.</li> </ul>  |   |                         |          |        |          |        |                                  |                                   |
| S5b.8.2.3 | Operational Phase Discharges  A pipeline drainage system will serve the development area collecting surface runoff from paved areas, roof, etc. Sustainable drainage principle would be adopted in the drainage system design to minimize peak surface runoff, maximize permeable surface and maximize beneficial use of rainwater.   | Within IWMF<br>site / During<br>the<br>operational<br>phase | IWMF Operator           | <b>*</b> |        | <b>V</b> |        | WPCO                             | N/A                               |
| S5b.8.2.4 | Oil interceptors should be provided in the drainage system of any potentially contaminated areas (such as truck parking area and maintenance workshop) and regularly cleaned to prevent the release of oil products into the storm water drainage system in case of accidental spillages. Accidental spillage should be cleaned up as soon as practicable and all waste oils and fuels should be collected and handled in | site / During<br>the<br>operational                         | IWMF Operator           | *        |        | •        |        | WPCO; WDO                        | N/A                               |

|           |   |  |                         | Implementation Stages* |   | Relevant |     |                                  |                                      |
|-----------|---|--|-------------------------|------------------------|---|----------|-----|----------------------------------|--------------------------------------|
| EIA Ref   | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing   | Implementation<br>Agent | Des                    | С | 0        | Dec | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks |
|           | compliance with the Waste Disposal Ordinance.   |  |                         |                        |   |          |     |                                  |                                      |
| S5b.8.2.5 | Refuse Entrapment  Collection and removal of floating refuse should be performed at regular intervals for keeping the water within the Project site boundary and the neighboring water free from rubbish.   | Within the<br>Project site /<br>During the<br>operational<br>phase | IWMF Operator           |                        |   | <b>√</b> |     | WPCO                             | N/A                                  |
| S5b.8.2.6 | Transportation of bottom ash, fly ash and APC residues to WENT Landfill for disposal  Covered container should be used in the shipping of the incineration waste to limit the contact between the incineration waste and the marine water. A comprehensive emergency response plan for any accidental spillage should be submitted by the operation contractor to the EPD for agreement before the operation of the facilities. Salvage and cleanup action to recover the spilled incineration waste containers following the spillage should be carried out according to the emergency response plan to mitigate the environmental impact in case of spillage. | Transportat ion of Incineration Ash / During the operational phase | IWMF Operator           |                        |   | <b>V</b> |     |                                  | N/A                                  |

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table B.4 Implementation Schedule for Waste Management Measures for the IWMF at the artificial island near SKC

|        | Fundamental But it   |  |                         | Impl | ementa | ation S | tages* | Relevant                         | Implementation Status<br>and Remarks                              |
|--------|--|--|-------------------------|------|--------|---------|--------|----------------------------------|---|
| EIA R  | Ref Environmental Protection  Measures / Mitigation  Measures                              | Location /<br>Timing   | Implementation<br>Agent | Des  | С      | 0       | Dec    | Legislation<br>and<br>Guidelines |   |
| 6b.5.1 | Adverse environmental impacts relation to waste management at expected, provided that good | site flowed. actices would permits in in its posal sidiary. Land inance waste andling points es to during overing tes in and ainage rs; special censed | Contractor              |      |        |         |        | ETWB TCW                         | Deficiency of Mitigation Measures but rectified by the Contractor |

|          |  |                      |                         | Impl | ementa | ation S | Stages* | Relevant                         |                                       |
|----------|--|----------------------|-------------------------|------|--------|---------|---------|----------------------------------|---------------------------------------|
| EIA Ref  | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing | Implementation<br>Agent | Des  | С      | 0       | Dec     | Legislation<br>and<br>Guidelines | Implementation Status and Remarks     |
| 6b.5.1.3 | Waste Reduction Measures  Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices.  Recommendations to achieve waste reduction include:  Design foundation works that could minimize the amount of excavated material to be generated.  Provide training to workers on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling;  Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.);  Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;  Encourage the collection of aluminum cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force;  Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and | Construction         | Contractor              |      |        |         |         |                                  | Implemented. N/A for demolition items |

|          | Engironmental Protection   |  |                    |     | Imple    | ementa   | ation Stages* | Relevant                         |                                      |
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| EIA Ref  | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location / Implementation Timing Agent |                    | on  | Des      | С        | O Dec         | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks |
|          | <ul> <li>Plan and stock construction materials<br/>carefully to minimize amount of waste to<br/>be generated and to avoid unnecessary<br/>generation of waste.</li> </ul>  |  |                    |     |          |          |               |                                  |                                      |
| 6b.5.1.7 | Dredged Sediment – Application of Dumping Permit  The project proponent should agree in advance with MFC of CEDD on the site allocation. The project proponent or contractor for the dredging works shall then apply for the site allocations of marine sediment disposal based on the prior agreement with MFC/CEDD. The project proponent or contractor should also be responsible for the application of all necessary permits from relevant authorities, including the dumping permit as required under DASO from EPD, for the disposal of dredged sediment prior to the commencement of the dredging works. | Reclamation site / Construction        | EPD and contractor | its | *        | <b>✓</b> |               | DASO<br>ETWB<br>TCW<br>34/2002   | Implemented                          |
| 6b.5.1.8 | Dredged Sediment – Sediment Quality Report  The project proponent or contractor will need to satisfy the appropriate authorities that the quality of the marine sediment to be dredged has been identified according to the requirements of ETWB TCW 34/2002. This should be completed well before the dredging works and would include at least the submission of a formal Sediment Quality Report under Tier I of ETWB TCW No. 34/2002 to DEP for approval. Subject to advice from DEP, it is possible that further marine SI in   |  | EPD and contractor | its | <b>~</b> |          |               | DASO<br>ETWB<br>TCW<br>34/2002   | Implemented                          |

|           |   |  |                         | Impl     | ementa   | ation S | tages* | Relevant                         |                                   |
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| EIA Ref   | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing   | Implementation<br>Agent | Des      | С        | 0       | Dec    | Legislation<br>and<br>Guidelines | Implementation Status and Remarks |
|           | accordance with ETWB TCW 34/2002 might be necessary for the application of dumping permit under DASO. In such case, a sediment sampling and testing proposal shall be submitted to and approved by DEP before the additional marine SI works.   |  |                         |          |          |         |        |                                  |                                   |
| 6b.5.1.9  | Dredged Sediment – Sediment Transportation  The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. | Seawall and<br>Reclamation<br>site /<br>Construction<br>Period | EPD and its contractor  |          | <b>~</b> |         |        | DASO<br>ETWB<br>TCW<br>34/2002   | Implemented                       |
| 6b.5.1.10 |   | Construction   | Contractor              | <b>V</b> | <b>V</b> |         |        | ETWB TCW<br>No. 19/2005          | Implemented                       |

|                              |   |                              |                         | Impl | ementa   | ation S | Stages* | Relevant                         |                                   |
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| EIA Ref                      | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing         | Implementation<br>Agent | Des  | С        | 0       | Dec     | Legislation<br>and<br>Guidelines | Implementation Status and Remarks |
|                              | (EMP), should be prepared in accordance with ETWB TCW No.19/2005;   |                              |                         |      |          |         |         |                                  |                                   |
|                              | A recording system for the amount of<br>wastes generated, recycled and<br>disposed (including the disposal sites)<br>should be adopted for easy tracking; and                                     |                              |                         |      |          |         |         |                                  |                                   |
|                              | • In order to monitor the disposal of C&D materials at public filling facilities and landfills and to control fly-tipping, a tripticket system should be adopted (refer to ETWB TCW No. 31/2004). |                              |                         |      |          |         |         |                                  |                                   |
| 6b.5.1.1<br>1 –<br>6b.5.1.12 | The Contactor should prepare and implement an EMP in accordance with  | During Design & Construction | Contractor              |      | <b>✓</b> |         |         | ETWB TCW<br>No. 19/2005          | Implemented                       |

|           | Environmental Protection   |  |                         | Impl | ementa   | ation S | tages* | Relevant   |                                      |
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| EIA Ref   | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing                           | Implementation<br>Agent | Des  | С        | 0       | Dec    | Legislation<br>and<br>Guidelines                                 | Implementation Status<br>and Remarks |
|           | All surplus C&D materials arising from or in connection with construction works should become the property of the Contractor when it is removed unless otherwise stated. The Contractor would be responsible for devising a system to work for on-site sorting of C&D materials and promptly removing all sorted and process materials arising from the construction activities to minimize temporary stockpiling on-site. The system should be included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site.                  |  |                         |      |          |         |        |  |                                      |
| 6b.5.1.13 | Chemical Wastes  Should chemical wastes be produced at the construction site, the Contractor would be required to register with EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste (such as explosive, flammable, oxidizing, irritant, toxic, harmful, or corrosive). The Contractor should employ a | Work Site/<br>During<br>Construction<br>Period | Contractor              |      | <b>✓</b> |         |        | Waste Disposal<br>(Chemical<br>Waste)<br>(General)<br>Regulation | Implemented.                         |

|                              |   |  |                            | Impl | ement    | ation S | Stages* | Relevant                         |   |
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| EIA Ref                      | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing   | Implementation<br>Agent    | Des  | С        | 0       | Dec     | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks                                    |
|                              | licensed collector to transport and dispose of<br>the chemical wastes, to either the Chemical<br>Waste Treatment Centre at Tsing Yi, or<br>another licensed facility, in accordance with<br>the Waste Disposal (Chemical Waste)<br>(General) Regulation.  |  |                            |      |          |         |         |                                  |   |
| 6b.5.1.14                    | General Refuse  General refuse should be stored in enclosed bins or compaction units separate from C&D materials. A licensed waste collector should be employed by the Contractor to remove general refuse from the site, separately from C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.  | Work Site/<br>During<br>Construction<br>Period   | Contractor                 |      | <b>✓</b> |         |         |                                  | Deficiency of Mitigation<br>Measures but rectified by the<br>Contractor |
| 6b.5.1.1<br>6 –<br>6b.5.1.33 | Biogas Generation  The Contractor shall review the data and analysis results, and the data from further Site Investigation, if any. Subject to the review findings, the following gas protection measures may be considered if necessary:  - gas monitoring after reclamation;  - passive ventilation;  - gas impermeable membrane;  - ventilation with "at risk" rooms;  - protection of utilities or below ground services; | Reclamation<br>site (if<br>dredging at<br>the<br>reclamation<br>site is not<br>required) /<br>Design &<br>Construction<br>Period | Designer and/or contractor |      | <b>✓</b> |         |         | EPD/TR8/97                       | N/A   |

|          |  |                      |                         | Impl | ementa | ation S  | Stages* | Relevant  |                                     |
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| EIA Ref  | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing | Implementation<br>Agent | Des  | С      | 0        | Dec     | Legislation Im<br>and<br>Guidelines   | nplementation Status<br>and Remarks |
| 6b.5.2.1 | - precautions during construction works;  - precautions prior to entry of belowground services  Good Site Practices  It is recommended that the following good operational practices should be adopted to minimise waste management impacts:  • Obtain the necessary waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and Waste Disposal (Chemical Waste) (General) Regulation;  • Nomination of an approved person to be responsible for good site practice, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site;  • Use of a waste haulier licensed to collect specific category of waste;  • A trip-ticket system should be included as one of the contractual requirements and implemented by the Environmental Team to monitor the |                      | IWMF Operator           |      |        | <b>✓</b> |         | Waste Disposal N/A Ordinance (Cap.354); Waste Disposal (Chemical Waste) (General) Regulation; ETWB TCW No. 1/2004 |                                     |
|          | disposal of solid wastes at landfills, and to control fly tipping. Reference should be made to ETWB TCW No. 31/2004.   |                      |                         |      |        |          |         |   |                                     |

|          | Environmental Protestics  |   |                         | Imple | ement | ation S | Stages* | Relevant                         |                                      |
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|          | <ul> <li>Training of site personnel in proper waste management and chemical waste handling procedures;</li> <li>Separation of chemical wastes for special handling and appropriate treatment at a licensed facility;</li> <li>Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> <li>Provision of sufficient waste disposal points and regular collection for disposal;</li> <li>Adoption of appropriate measures to minimize windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers; and</li> <li>Implementation of a recording system for the amount of wastes generated, and disposed of (including recycled the disposal sites).</li> </ul> |   |                         |       |       |         |         |                                  |                                      |
| 6b.5.2.2 | Waste Reduction Measures  Good management and control can prevent the generation of significant amounts of waste. It is recommended that the following good operational practices should be adopted to ensure waste reduction:  • Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;  | IWMF Site/<br>During<br>Operation<br>Period | IWMF Operator           |       |       | •       |         |                                  | Implemented                          |

|          | Environmental Protection   |   |                         | Imple | ementa | ation S  | Stages* | Relevant   |                                   |
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| EIA Ref  | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing                        | Implementation<br>Agent | Des   | С      | 0        | Dec     | Legislation<br>and<br>Guidelines                       | Implementation Status and Remarks |
|          | <ul> <li>Encourage collection of aluminum cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors.         Separate labelled bins should be provided to help segregate this waste from other general refuse generated by the work force; and</li> <li>Any unused chemicals or those with remaining functional capacity should be reused as far as practicable.</li> </ul> |   |                         |       |        |          |         |  |                                   |
| 6b.5.2.3 | Storage, Handling, Treatment, Collection and Disposal of Incineration By-Products  The following measures are recommended for the storage, handling and collection of the incineration by-products:  | IWMF Site/<br>During<br>Operation<br>Period | IWMF Operator           |       |        | <b>√</b> |         | Incineration<br>Residue<br>Pollution Control<br>Limits | N/A                               |
|          | Ash should be stored in storage silos;   |   |                         |       |        |          |         |  |                                   |
|          | <ul> <li>Ash should be handled and<br/>conveyed in closed systems fully<br/>segregatedfrom the ambient<br/>environment;</li> </ul>   |   |                         |       |        |          |         |  |                                   |
|          | <ul> <li>Ash should be wetted with water<br/>to control fugitive dust, where<br/>necessary;</li> </ul>   |   |                         |       |        |          |         |  |                                   |
|          | All fly ash and APC residues should be treated, e.g. by cement solidification or chemical stabilization, for compliance with the proposed Incineration Residue Pollution Control Limits and leachability criteria prior to disposal;   |   |                         |       |        |          |         |  |                                   |

|          | Environmental Protection  |  |                         | Impl | ementa   | ation S | tages* | Relevant   |
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| EIA Ref  | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing   | Implementation<br>Agent | Des  | С        | 0       | Dec    | Legislation Implementation Status and and Remarks Guidelines |
|          | The ash should be transported in covered trucks or containers to the designated landfill site.  |  |                         |      |          |         |        |  |
|          | The Contractor should provide EPD with chemical analysis results of the bottom ash, and treated fly ash and APC residues to confirm that the ash/residue can comply with the proposed Incineration Residue Pollution Control Limits before disposal.  |  |                         |      |          |         |        |  |
| 6b.6.3.1 | <ul> <li>Fuel Oil Tank Construction and Test</li> <li>The fuel tank to be installed should be of specified durability.</li> <li>Double skin tanks are preferred.</li> <li>Underground fuel storage tank should be placed within a concrete pit.</li> <li>The concrete pit shall be</li> </ul> | Fuel Oil Storage Tank/ During Design, Construction and Operation Periods | IWMF Contractor         | •    | <b>✓</b> | ✓ ·     |        | N/A  |
|          | <ul><li>accessible to allow regular tank integrity tests to be carried out at regular intervals.</li><li>Tank integrity tests should be</li></ul>   |  |                         |      |          |         |        |  |
|          | conducted by an independent qualified surveyor or structural engineer.  |  |                         |      |          |         |        |  |
|          | <ul> <li>Any potential problems identified in<br/>the test should be rectified as soon<br/>as possible.</li> </ul>  |  |                         |      |          |         |        |  |

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| EIA Ref  | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing             | Implementation<br>Agent | Des   | С        | 0        | Dec     | Legislation Implementation Status and Remarks Guidelines |
| 6b.6.3.1 | <ul> <li>Fuel Oil Pipeline Construction and Test</li> <li>Installation of aboveground fuel oil pipelines is preferable; if underground pipelines are unavoidable, concrete lined trenches should be constructed to contain the pipelines.</li> <li>Double skin pipelines are preferred.</li> <li>Distance between the fuel oil refuelling points and the fuel oil storage tank shall be minimized.</li> <li>Integrity tests for the pipelines should be conducted by an independent qualified surveyor or structural engineer at regular intervals.</li> <li>Any potential problems identified in the test should be rectified as soon as possible.</li> </ul> | Design,<br>Construction<br>and   | IWMF Contractor         | •     | <b>✓</b> | ✓        |         | N/A  |
| 6b.6.3.1 | <ul> <li>Installation of leak detection device at storage tank and pipelines.</li> <li>Installation and use of pressure gauges (e.g. at the two ends of a filling line) in fuel filling, which allows unexpected pressure drop or difference and sign of leakage to be detected.</li> </ul>  | Operation                        | IWMF Contractor         | •     | <b>√</b> | <b>√</b> |         | N/A  |
| 6b.6.3.1 | Fuel Oil Storage Tank Refuelling   | Fuel Oil<br>Refuelling<br>Point/ | IWMF Operator           |       |          | <b>√</b> |         | N/A  |

|          |   |   |                         | Imple | ementa | ation S  | stages* | Relevant   |
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|          | <ul> <li>Storage tank refuelling (from road<br/>tanker) should only be conducted by<br/>authorized staff of the oil company<br/>using the company's standard<br/>procedures.</li> </ul>   | During<br>Operation<br>Period               |                         |       |        |          |         |  |
| 6b.6.3.1 | Fuel Oil Spillage Response  An Oil Spill Response Plan should be prepared by the operator to document the appropriate response procedures for oil spillage incidents in detail. General procedures to be taken in case of fuel oil spillage are presented below.  | IWMF Site/<br>During<br>Operation<br>Period | IWMF Operator           |       |        | <b>√</b> |         | N/A  |
|          | • Training  |   |                         |       |        |          |         |  |
|          | - Training on oil spill response actions should be given to relevant staff. The training shall cover the followings:  |   |                         |       |        |          |         |  |
|          | <ul> <li>Tools &amp; resources to combat oil spillage and fire, e.g. locations of oil spill handling equipment and fire fighting equipment;</li> <li>General methods to deal with oil spillage and fire incidents;</li> <li>Procedures for emergency drills in the event of oil spills and fire; and</li> <li>Regular drills shall be carried out.</li> </ul> |   |                         |       |        |          |         |  |
|          | Communication   |   |                         |       |        |          |         |  |
|          | -Establish communication channel with the Fire Services Department (FSD) and EPD to report any oil spillage incident  |   |                         |       |        |          |         |  |

|         | Fundamental Bod di   |                      | Implementation<br>Agent | Imple | ementa | ation \$ | Stages* | Relevant                         | Implementation Status and Remarks |
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| EIA Ref | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing |                         | Des   | С      | 0        | Dec     | Legislation<br>and<br>Guidelines |                                   |
|         | so that necessary assistance from relevant department can be quickly sought.   |                      |                         |       |        |          |         |                                  |                                   |
|         | Response Procedures  |                      |                         |       |        |          |         |                                  |                                   |
|         | -Any fuel oil spillage within the IWMF site should be immediately reported to the Plant Manager with necessary details including location, source, possible cause and extent of the spillage.  |                      |                         |       |        |          |         |                                  |                                   |
|         | <ul> <li>-Plant Manager should immediately attend to the spillage and initiate any appropriate action to confine and clean up the spillage. The response procedures shall include the following:</li> <li>&gt;Identify and isolate the source of spillage as soon as possible.</li> <li>&gt;Contain the oil spillage and avoid infiltration into soil/ groundwater and discharge to storm water channels.</li> <li>&gt;Remove the oil spillage.</li> </ul> |                      |                         |       |        |          |         |                                  |                                   |
|         | Clean up the contaminated area.  |                      |                         |       |        |          |         |                                  |                                   |
|         | <ul> <li>If the oil spillage occurs during<br/>storage tank refuelling, the<br/>refueling operation should<br/>immediately be stopped.</li> <li>▶Recovered contaminated fuel oil<br/>and the associated material to</li> </ul>   |                      |                         |       |        |          |         |                                  |                                   |
|         | remove the spilled oil should be considered as chemical waste.  The handling and disposal  |                      |                         |       |        |          |         |                                  |                                   |

|          |  |   |                         | Imple | ementa | ation S | Stages* | Relevant                         |                                   |
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| EIA Ref  | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing                                | Implementation<br>Agent | Des   | С      | 0       | Dec     | Legislation<br>and<br>Guidelines | Implementation Status and Remarks |
|          | procedures for chemical wastes are discussed in the following paragraphs.  |   |                         |       |        |         |         |                                  |                                   |
| 6b.6.3.2 | <ul> <li>Chemicals and Chemical Wastes Handling &amp; Storage</li> <li>Chemicals and chemical wastes should only be stored in suitable containers in purpose-built areas.</li> <li>The storage of chemical wastes should comply with the requirements of the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</li> <li>The storage areas for chemicals and chemical wastes shall have an impermeable floor or surface. The impermeable floor/ surface shall possess the following properties:         <ul> <li>Not liable to chemically react with the materials and their containers to be stored.</li> <li>Able to withstand normal loading and physical damage caused by container handling</li> <li>The integrity and condition of the impermeable floor or surface should be inspected at regular intervals to ensure that it is satisfactorily maintained</li> <li>For liquid chemicals and</li> </ul> </li> </ul> | and Chemical Wastes Storage Area / During Operation | IWMF Operator           |       |        |         |         |                                  | N/A                               |
|          | chemical wastes storage, the   |   |                         |       |        |         |         |                                  | 25                                |

|          |  |   |                         | Imple | ementa | ation S  | Stages* | Relevant                         |                                      |
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| EIA Ref  | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing                        | Implementation<br>Agent | Des   | С      | 0        | Dec     | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks |
|          | storage area should be bunded to contain at least 110% of the storage capacity of the largest containers or 20% of the total quantity of the chemicals/chemical wastes stored, whichever is the greater.   |   |                         |       |        |          |         |                                  |                                      |
|          | Storage containers shall be<br>checked at regular intervals for<br>their structural integrity and to<br>ensure that the caps or fill<br>points are tightly closed.   |   |                         |       |        |          |         |                                  |                                      |
|          | Chemical handling shall be<br>conducted by trained workers<br>under supervision.   |   |                         |       |        |          |         |                                  |                                      |
| 6b.6.3.2 | Chemicals and Chemical Wastes Spillage Response  A Chemicals and/ or Chemical Wastes Spillage Response Plan shall be prepared by the operator to document in detail the appropriate response procedures for chemicals or chemical wastes spillage incidents. General procedures to be undertaken in case of chemicals/ chemical waste spillages are presented below.  • Training | IWMF Site/<br>During<br>Operation<br>Period | IWMF Operator           |       |        | <b>✓</b> |         |                                  | N/A                                  |
|          | - Training on spill response actions should be given to relevant staff. The training shall cover the followings:   |   |                         |       |        |          |         |                                  |                                      |

|         | Fundamental Basis dia  |                      |                         | Imple | ementa | ation S | Stages* | Relevant                         | Implementation Status<br>and Remarks |
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| EIA Ref | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec     | Legislation<br>and<br>Guidelines |                                      |
|         | Tools & resources to<br>handle spillage, e.g.<br>locations of spill handling<br>equipment;   |                      |                         |       |        |         |         |                                  |                                      |
|         | General methods to deal with spillage; and   |                      |                         |       |        |         |         |                                  |                                      |
|         | Procedures for emergency<br>drills in the event of spills.   |                      |                         |       |        |         |         |                                  |                                      |
|         | Communication  |                      |                         |       |        |         |         |                                  |                                      |
|         | <ul> <li>Establish communication channel<br/>with FSD and EPD to report the<br/>spillage incident so that<br/>necessary assistance from<br/>relevant department can be<br/>quickly sought.</li> </ul>                      |                      |                         |       |        |         |         |                                  |                                      |
| •       | Response Procedures  |                      |                         |       |        |         |         |                                  |                                      |
|         | <ul> <li>Any spillage within the IWMF site<br/>should be reported to the Plant<br/>Manager.</li> </ul>   |                      |                         |       |        |         |         |                                  |                                      |
|         | <ul> <li>Plant Manager shall attend to the<br/>spillage and initiate any appropriate<br/>actions needed to confine and<br/>clean up the spillage. The<br/>response procedures shall<br/>include the followings:</li> </ul> |                      |                         |       |        |         |         |                                  |                                      |
|         | Identify and isolate the<br>source of spillage as soon<br>as possible;   |                      |                         |       |        |         |         |                                  |                                      |
|         | Contain the spillage and avoid infiltration into soil/   |                      |                         |       |        |         |         |                                  |                                      |

|          |   |   |                         | Imple | ementa | ation S  | Stages* | Relevant                         |                                      |
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| EIA Ref  | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing  | Implementation<br>Agent | Des   | С      | 0        | Dec     | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks |
|          | groundwater and discharge to<br>storm water channels (in<br>case the spillage occurs<br>at locations out of the<br>designated storage areas);   |   |                         |       |        |          |         |                                  |                                      |
|          | Remove the spillage; the<br>removal method/ procedures<br>documented in the Material<br>Safety Data Sheet (MSDS)<br>of the chemicals spilled<br>should be observed;   |   |                         |       |        |          |         |                                  |                                      |
|          | Clean up the contaminated area (in case the spillage occurs at locations out of the designated storage areas); and  |   |                         |       |        |          |         |                                  |                                      |
|          | The waste arising from the<br>cleanup operation should be<br>considered as chemical<br>wastes.  |   |                         |       |        |          |         |                                  |                                      |
| 6b.6.3.3 | Preventive Measures for Incineration By- products Handling  The recommended measures listed below can minimize the potential contamination to the surrounding environment due to the incineration by-products:  • Ash should be stored in storage silos;  • Ash should be handled and conveyed in closed systems fully segregated | Storage, Handling & Collection of Incineration Ash at IWMF/ During Operation Period | IWMF Operator           |       |        | <b>V</b> |         |                                  | N/A                                  |

|                       |  |                      |                         | Imple | ementa | ation S | tages* | Relevant  |                                   |
|-----------------------|--|----------------------|-------------------------|-------|--------|---------|--------|---|-----------------------------------|
| EIA Ref               | Environmental Protection<br>Measures / Mitigation<br>Measures  | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec    | Legislation<br>and<br>Guidelines  | Implementation Status and Remarks |
|                       | from the ambient environment;  |                      |                         |       |        |         |        |   |                                   |
|                       | <ul> <li>Ash should be wetted with water<br/>to control fugitive dust, where<br/>necessary;</li> </ul>   |                      |                         |       |        |         |        |   |                                   |
|                       | All fly ash and APC residues should<br>be treated, e.g. by cement<br>solidification or chemical<br>stabilization, for compliance with<br>the proposed Incineration Residue<br>Pollution Control Limits and<br>leachability criteria prior to disposal;   |                      |                         |       |        |         |        |   |                                   |
|                       | <ul> <li>The ash should be transported in<br/>covered trucks or containers to the<br/>designated landfill site.</li> </ul>   |                      |                         |       |        |         |        |   |                                   |
| 6b.6.3.4<br>-6b.6.3.6 | Incident Record  After any spillage, an incident report should be prepared by the Plant Manager. The incident report should contain details of the incident including the cause of the incident, the material spilled and estimated spillage amount, and also the response actions undertaken. The incident record should be kept carefully and able to be retrieved when necessary.  The incident report should provide sufficient details for the evaluation of any environmental impacts due to the spillage and assessment of the effectiveness of measures taken. |                      | IWMF Operator           |       |        |         |        | Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management and the Guidance Note for Contaminated Land and Remediation. | N/A                               |

|         |   |                      |                         | Imple | ementa | ation S | Stages* | Relevant                         |                                      |
|---------|---|----------------------|-------------------------|-------|--------|---------|---------|----------------------------------|--------------------------------------|
| EIA Ref | Environmental Protection<br>Measures / Mitigation<br>Measures   | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec     | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks |
|         | In case any spillage or accidents results in significant land contamination, EPD should be informed immediately and the IWMF operator should be responsible for the cleanup of the affected area. The responses procedures described in Section 6b.6.3.1 and Section 6b.6.3.2 of EIA report should be followed accordingly together with the land contamination assessment and remediation guidelines stipulated in the Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management and the Guidance Note for Contaminated Land and Remediation. |                      |                         |       |        |         |         |                                  |                                      |

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table B.5 Implementation Schedule for Ecological Quality Measures for the IWMF at the artificial island near SKC

|          | Environmental Protection  |                      |                               | Impl     | ementa | ation S  | tages* | Relevant                         | Implementation Status<br>and Remarks |
|----------|---|----------------------|-------------------------------|----------|--------|----------|--------|----------------------------------|--------------------------------------|
| EIA Ref  | Measures / Mitigation  Measures   | Location /<br>Timing | Implementation<br>Agent       | Des      | С      | 0        | Dec    | Legislation<br>and<br>Guidelines |                                      |
| 7b.8.2.1 | Measures to avoid direct loss of intertidal habitat     The site boundary has been proposed to avoid direct contact with the intertidal natural rocky shore of Shek Kwu Chau. It avoids direct loss of intertidal communities and the existing natural rocky shore habitat, where Reef Egret and White-bellied Sea Eagle have been recorded within and in the vicinity of this habitat. | IWMF site            | Design team                   | <b>V</b> |        |          |        | EIAO-TM                          | N/A                                  |
| 7b.8.2.2 | Measures to minimise loss of coastal subtidal habitat  • Extensive coral colonies were recorded at the coastal hard bottom habitat at Shek Kwu Chau. To avoid and minimise the extensive direct impact on the coral colonies, the proposed reclamation area has been moved further offshore to minimise loss of subtial habitat near shore.   | IWMF site            | Design team                   | ~        |        |          |        | EIAO-TM                          | N/A                                  |
| 7b.8.2.3 | Zero Discharge Scheme  The design scheme of the Project has avoided discharge of wastewater into the marine environment.  A zero discharge scheme would be adopted during the operation of the Project.  An on-site wastewater treatment plant would be   | IWMF site            | Design team,<br>IWMF operator | <b>V</b> |        | <b>✓</b> |        | WPCO                             | N/A                                  |

|                                  | Environmental Protection  |   |                                   |               | Imple    | ementa   | ation S                        | tages*   | Relevant   | I and the second section of the section of th |
|----------------------------------|---|---|-----------------------------------|---------------|----------|----------|--------------------------------|----------|--|--|
| EIA Ref                          | Measures / Mitigation  Measures   | Location / Implementation I Agent                   |                                   | Des           | С        | 0        | Dec Legislation and Guidelines |          | Implementation Status and Remarks  |  |
|                                  | provided to treat the wastewater generated from the IWMF (mainly human sewage). The treated effluent would be re-used in the incineration plant and mechanical treatment plant, or for onsite washdown and landscape.   |   |                                   |               |          |          |                                |          |  |  |
| 7b.8.2.4                         | Measures to avoid loss of plant species of conservation importance  Landing portal construction works would not cause direct lost to the recorded individual of protected plant species,  Aquilaria sinensis, at the coastal shrubland habitat at Cheung Sha.  As a precautionary measure, the plant should be tagged with eyecatching tape and fenced off prior to works, in order to avoid any damage by workers. | Cheung Sha<br>landing portal                        | Design<br>Contractor              | team,         | *        | <b>✓</b> |                                |          | EIAO-TM  | N/A  |
| 7b.8.3.1<br>-<br>7b.8.3.1<br>5   | Measures to minimise water quality impact     Measures for water quality as recommended in <b>Section 5b</b> of the EIA Report should be implemented.   | Work site   | Design<br>contractor,<br>operator | team,<br>IWMF | <b>~</b> | <b>√</b> | <b>✓</b>                       | <b>√</b> | EIAO-TM;<br>ProPECC PN<br>1/94; WPCO   | Implemented  |
| 7b.8.3.1<br>6 -<br>7b.8.3.3<br>0 | Measures to minimise disturbance on Finless Porpoise  Minimisation of Habitat Loss for Finless Porpoise   | IWMF site,<br>work site,<br>marine traffic<br>route | Design<br>contractor,<br>operator | team,<br>IWMF | <b>~</b> | <b>√</b> | <b>✓</b>                       | <b>✓</b> | EIAO-TM,<br>Supporting<br>Document for<br>Application for<br>Variation of the<br>Environmental | Implemented for avoidance of construction works that may produce underwater acoustic disturbance, Vessel Travel Route implementation, training of staff; N/A for others  |

|         | Environmental Protection  |                      |                         | Impl | ementa | ation S | Stages* | Relevant                         | Implementation Status<br>and Remarks |
|---------|---|----------------------|-------------------------|------|--------|---------|---------|----------------------------------|--------------------------------------|
| EIA Ref | Measures / Mitigation  Measures   | Location /<br>Timing | Implementation<br>Agent | Des  | С      | 0       | Dec     | Legislation<br>and<br>Guidelines |                                      |
|         | <ul> <li>Substantial revision has been made on the layout plan and form of the breakwater, in order to minimise the potential loss of important habitat for Finless Porpoise. The revision has greatly reduced the size of the embayment area, as well as the Project footprint. As a result, the size of habitat loss for Finless Porpoise has reduced from the original ~50 ha, down to ~31 ha.</li> <li>Avoidance of peak season for finless porpoise occurrence</li> <li>To minimise potential acoustic disturbance from construction activities on Finless Porpoise, construction works that may produce underwater acoustic disturbance should be scheduled outside the months with peak Finless Porpoise occurrence (December to May), including:         <ul> <li>sheet piling works for</li> </ul> </li> </ul> |                      | Agent                   |      |        |         |         |                                  |                                      |
|         | construction of cofferdam surrounding the reclamation area (Phase 1);   |                      |                         |      |        |         |         |                                  |                                      |
|         | <ul> <li>sheet piling works for<br/>construction of the shorter<br/>section of breakwater (Phase 1);</li> </ul>   |                      |                         |      |        |         |         |                                  |                                      |

|         | Environmental Protection   |                      |                         | Impl | ementa | ation S | Stages* | Relevant                         | Implementation Status<br>and Remarks |
|---------|--|----------------------|-------------------------|------|--------|---------|---------|----------------------------------|--------------------------------------|
| EIA Ref | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent | Des  | С      | 0       | Dec     | Legislation<br>and<br>Guidelines |                                      |
|         | <ul> <li>sheet piling works for construction of the remaining section of breakwater (Phase 3) and</li> <li>bored piling works for berth area (Phase 3)</li> </ul>  |                      |                         |      |        |         |         |                                  |                                      |
|         | Such works should be restricted within June to November. This approach would not only avoid the peak season for Finless Porpoise occurrence, the magnitude of impacts arise from acoustic disturbance would also be minimised. |                      |                         |      |        |         |         |                                  |                                      |
|         | Since the DCM ground treatment and the installation of precast seawalls and breakwaters should generate no underwater acoustic disturbance to Finless Porpoise, no specific mitigation measures are required.                  |                      |                         |      |        |         |         |                                  |                                      |
|         | Opt for quieter construction methods and plants  |                      |                         |      |        |         |         |                                  |                                      |
|         | Considering the sensitivity of marine mammals to underwater acoustic disturbance, instead of the previously proposed conventional breakwater and reclamation peripheral structure,   |                      |                         |      |        |         |         |                                  |                                      |
|         | which requires noisy piling works, the current circular cells structure for  |                      |                         |      |        |         |         |                                  |                                      |

|         | Environmental Protection   |                      |                         | Impl | ementa | ation S | Stages* | Relevant                         | Implementation Status<br>and Remarks |
|---------|--|----------------------|-------------------------|------|--------|---------|---------|----------------------------------|--------------------------------------|
| EIA Ref | Environmental Protection<br>Measures / Mitigation<br>Measures              | Location /<br>Timing | Implementation<br>Agent | Des  | С      | 0       | Dec     | Legislation<br>and<br>Guidelines |                                      |
|         | breakwater and reclamation peripheral                                      |                      |                         |      |        |         |         |                                  |                                      |
|         | structure is proposed. A quieter sheet                                     |                      |                         |      |        |         |         |                                  |                                      |
|         | piling method using vibratory hammer or hydraulic impact hammer, should be |                      |                         |      |        |         |         |                                  |                                      |
|         | adopted for the installation of circular                                   |                      |                         |      |        |         |         |                                  |                                      |
|         | cells for cellular cofferdam and   |                      |                         |      |        |         |         |                                  |                                      |
|         | northern breakwater during Phase 1,  |                      |                         |      |        |         |         |                                  |                                      |
|         | and southern breakwater Phase 3;   |                      |                         |      |        |         |         |                                  |                                      |
|         | Non-percussive bore piling method  |                      |                         |      |        |         |         |                                  |                                      |
|         | would be adopted for the installation of                                   |                      |                         |      |        |         |         |                                  |                                      |
|         | tubular piles for the berth construction                                   |                      |                         |      |        |         |         |                                  |                                      |
|         | during Phase 3.  |                      |                         |      |        |         |         |                                  |                                      |
|         | Monitored exclusion zones  |                      |                         |      |        |         |         |                                  |                                      |
|         | During the installation/re-  |                      |                         |      |        |         |         |                                  |                                      |
|         | installation/relocation process of   |                      |                         |      |        |         |         |                                  |                                      |
|         | floating type silt curtains, in order to                                   |                      |                         |      |        |         |         |                                  |                                      |
|         | avoid the accidental entrance and  |                      |                         |      |        |         |         |                                  |                                      |
|         | entrapment of marine mammals within  |                      |                         |      |        |         |         |                                  |                                      |
|         | the silt curtains, a monitored exclusion                                   |                      |                         |      |        |         |         |                                  |                                      |
|         | zone of 250 m radius from silt curtain                                     |                      |                         |      |        |         |         |                                  |                                      |
|         | should be implemented. The exclusion zone should be closely                |                      |                         |      |        |         |         |                                  |                                      |
|         | monitored by an experienced marine   |                      |                         |      |        |         |         |                                  |                                      |
|         | mammal observer at least 30 minutes  |                      |                         |      |        |         |         |                                  |                                      |
|         | before the start of installation/re-                                       |                      |                         |      |        |         |         |                                  |                                      |
|         | installation/relocation process. If a                                      |                      |                         |      |        |         |         |                                  |                                      |
|         | marine mammal is noted within the  |                      |                         |      |        |         |         |                                  |                                      |
|         | exclusion zone, all marine works   |                      |                         |      |        |         |         |                                  |                                      |
|         | should stop immediately and remain   |                      |                         |      |        |         |         |                                  |                                      |
|         | idle for 30 minutes, or until the  |                      |                         |      |        |         |         |                                  |                                      |

|         | Environmental Protection   |                      |                         | Imple | ementa | ation S | tages* | Relevant                         | Implementation Status<br>and Remarks |
|---------|--|----------------------|-------------------------|-------|--------|---------|--------|----------------------------------|--------------------------------------|
| EIA Ref | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec    | Legislation<br>and<br>Guidelines |                                      |
|         | exclusion zone is free from marine mammals.  |                      |                         |       |        |         |        |                                  |                                      |
|         | The experienced marine mammal observer should be well trained to detect marine mammals. Binoculars should be used to search the exclusion zone from an elevated platform with unobstructed visibility. The observer should also be independent from the project proponent and has the power to call-off construction activities. |                      |                         |       |        |         |        |                                  |                                      |
|         | In addition, as marine mammals cannot be effectively monitored within the proposed monitored exclusion zone at night, or during adverse weather conditions (i.e. Beaufort 5 or above, visibility of 300 meters or below), marine works should be avoided under weather conditions with low visibility.                           |                      |                         |       |        |         |        |                                  |                                      |
|         | Marine mammal watching plan  |                      |                         |       |        |         |        |                                  |                                      |
|         | Upon the completion of<br>the installation/re-<br>installation/relocation of floating type silt<br>curtain, all marine works would be<br>conducted within a fully enclosed<br>environment within the silt curtain, hence<br>exclusion zone monitoring would no longer  |                      |                         |       |        |         |        |                                  |                                      |

|         | Environmental Protection  |                      |                         | Imple | ementa | ation S | tages* | Relevant                         | Implementation Status<br>and Remarks |
|---------|---|----------------------|-------------------------|-------|--------|---------|--------|----------------------------------|--------------------------------------|
| EIA Ref | Measures / Mitigation  Measures   | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec    | Legislation<br>and<br>Guidelines |                                      |
|         | be required. Subsequently, a marine mammal watching plan should be implemented.   |                      |                         |       |        |         |        |                                  |                                      |
|         | The plan should include regular inspection of silt curtains, and visual inspection of the waters surrounded by the curtains. Special attention should be paid to Phase 2 (reclamation) where the floating type still curtain would be opened occasionally for vessel access, leaving a temporary 50 m opening.  An action plan should be devised to cope with any unpredicted incidents such as the case when marine mammals are found within the waters surrounded by the silt curtains. |                      |                         |       |        |         |        |                                  |                                      |
|         | Small openings at silt curtains   |                      |                         |       |        |         |        |                                  |                                      |
|         | The openings for vessel access at the<br>silt curtains should be as small as<br>possible to minimise the risk of<br>accidental entrance.  |                      |                         |       |        |         |        |                                  |                                      |
|         | Adoption of regular travel route  |                      |                         |       |        |         |        |                                  |                                      |
|         | During construction and operation,<br>captains of all vessels should adopt<br>regular travel route, in order to minimize<br>the chance of vessel collision with   |                      |                         |       |        |         |        |                                  |                                      |

|         | Environmental Protection   |                      |                         | Imple | ementa | ation S | tages* | Relevant                         | Implementation Status<br>and Remarks |
|---------|--|----------------------|-------------------------|-------|--------|---------|--------|----------------------------------|--------------------------------------|
| EIA Ref | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec    | Legislation<br>and<br>Guidelines |                                      |
|         | marine mammals, which may otherwise result in damage to health or mortality. The regular travel route should avoid areas with high sighting density of Finless Porpoise as much as possible.   |                      |                         |       |        |         |        |                                  |                                      |
|         | Vessel speed limit   |                      |                         |       |        |         |        |                                  |                                      |
|         | <ul> <li>The frequent vessel traffic in the vicinity of works area may increase the chance of mammal mammals being killed or seriously injured by vessel collision. A speed limit of ten knots should be strictly enforced within areas with high density of Finless Porpoise.</li> <li>Passive acoustic monitoring and land-based theodolite monitoring surveys should be adopted to verify the predicted impacts and effectiveness of the proposed mitigation measures.</li> </ul> |                      |                         |       |        |         |        |                                  |                                      |
|         | Training of Staff  |                      |                         |       |        |         |        |                                  |                                      |
|         | <ul> <li>Staff, including captains of vessels,<br/>should be aware of the guidelines for<br/>safe vessel operations in the presence<br/>of cetaceans during construction and<br/>operation phases. Adequate trainings<br/>should be provided</li> </ul>  |                      |                         |       |        |         |        |                                  |                                      |

|                                  | Environmental Protection   |                      |                                   |               | Imple    | ementa   | ation S  | tages*   | Relevant                         |   |
|----------------------------------|--|----------------------|-----------------------------------|---------------|----------|----------|----------|----------|----------------------------------|---|
| EIA Ref                          | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent           |               | Des      | С        | 0        | Dec      | Legislation<br>and<br>Guidelines | Implementation Status and Remarks   |
| 7b.8.3.3<br>1 -<br>7b.8.3.3<br>4 | Measures to minimise impact on corals  Coral translocation   | IWMF site            | Design<br>contractor,<br>operator | team,<br>IWMF | <b>✓</b> | <b>√</b> | <b>√</b> | <b>*</b> | EIAO-TM                          | Implemented, tagged coral found missing after hitting by typhoons   |
|                                  | Coral communities within and in proximity to the proposed dredging sites would be disturbed by the Project due to the dredging operations. In order to minimise direct loss of coral communities, translocation of corals that are attached to movable rocks with diameter less than 50 cm are recommended. In order to avoid disturbance to corals during the spawning period, the spawning season of corals (June to August) should be avoided; and that translocation should be carried out during the winter season (November- March). |                      |                                   |               |          |          |          |          |                                  | Re-tagging of 10 coral colonies at indirect impact site and control site were conducted in November and December 2018 respectively. |
|                                  | The REA survey results suggest that<br>the 198 directly affected coral colonies<br>were attached to movable rocks (less<br>than 50 cm in diameter). It is technically<br>feasible to translocate them to avoid<br>direct loss.   |                      |                                   |               |          |          |          |          |                                  |   |
|                                  | Prior to coral translocation, a more detailed baseline survey, including a coral mapping survey, is recommended to further confirm the   |                      |                                   |               |          |          |          |          |                                  |   |

|         | Environmental Protection   |                      |                         | Imple | ement | ation S | tages* | Relevant                         | Implementation Status and Remarks |
|---------|--|----------------------|-------------------------|-------|-------|---------|--------|----------------------------------|-----------------------------------|
| EIA Ref | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent | Des   | С     | 0       | Dec    | Legislation<br>and<br>Guidelines |                                   |
|         | exact number and location of coral colonies within the potentially affected area. A more detailed coral translocation plan, including selection of suitable recipient site, plan for coral translocation, and event / action plan for coral monitoring should be submitted upon approval of this Project, prior to commencement of construction works. Advice from relevant governmental departments (i.e. AFCD) and professionals would be sought after, in order to identify a desirable location for the relocation of coral communities. Post-translocation monitoring on the translocated corals should also be considered. |                      |                         |       |       |         |        |                                  |                                   |
|         | A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the coral communities at the coasts of Shek Kwu Chau during construction of the Project.   |                      |                         |       |       |         |        |                                  |                                   |
|         | Phasing of Works  To minimize environmental impacts, the proposed phasing of construction works has been carefully designed to   |                      |                         |       |       |         |        |                                  |                                   |

|                                  | Environmental Protection  |                      |  | Impl | ement    | ation S | Stages* | Relevant                         |                                   |
|----------------------------------|---|----------------------|--|------|----------|---------|---------|----------------------------------|-----------------------------------|
| EIA Ref                          | Measures / Mitigation  Measures   | Location /<br>Timing | Implementation<br>Agent                |      | С        | 0       | Dec     | Legislation<br>and<br>Guidelines | Implementation Status and Remarks |
|                                  | reduce the amount of concurrent works, hence minimize SS elevation and the associated impacts on corals.  |                      |  |      |          |         |         |                                  |                                   |
| 7b.8.3.3<br>5 -<br>7b.8.3.4<br>1 | Specific measures to minimize disturbance on breeding White-bellied Sea Eagle  Avoidance of noisy works during the breeding season of White-bellied Sea Eagle  • To minimize potential noise disturbance from construction activities on WBSE, noisy construction works should be scheduled outside their breeding season (December to May) to minimise potential degradation in breeding ground quality and breeding activities, including:  - sheet piling works for construction of cofferdam surrounding the reclamation area (Phase 1); - sheet piling works for construction of the shorter section of breakwater (Phase 1); - sheet piling works for construction of the remaining section of breakwater (Phase 3); and - bored piling works for berth area (Phase 3). |                      | Design Team, Contractor, IWMF operator |      | <b>✓</b> | •       |         | EIAO-TM                          | Implemented                       |

|         | Environmental Protection   |                      |                         | Impl | ementa | ation S | tages* | Relevant                         | Implementation Status and Remarks |
|---------|--|----------------------|-------------------------|------|--------|---------|--------|----------------------------------|-----------------------------------|
| EIA Ref | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent | Des  | С      | 0       | Dec    | Legislation<br>and<br>Guidelines |                                   |
|         | Opt for quieter construction methods and plants  |                      |                         |      |        |         |        |                                  |                                   |
|         | To minimise potential construction noise disturbance on WBSE, quieter construction methods and plants should be adopted. The recommended noise mitigation measures in the Noise chapter (Section 4b.8 of the EIA Report) should be implemented to minimise potential noise disturbance to acceptable levels. |                      |                         |      |        |         |        |                                  |                                   |
|         | Restriction on vessel access near the nest of White-bellied Sea Eagle  |                      |                         |      |        |         |        |                                  |                                   |
|         | During construction and operation, in order to minimize disturbance on the existing WBSE nest, a pre-defined practical route to restrict vessel access near the nest should be adopted to keep vessels and boats as far away from the nest as possible.  |                      |                         |      |        |         |        |                                  |                                   |
|         | White-bellied Sea Eagle monitoring programme   |                      |                         |      |        |         |        |                                  |                                   |
|         | <ul> <li>A WBSE monitoring programme is<br/>recommended to assess any adverse<br/>and unacceptable impacts to the<br/>breeding activities of WBSE during<br/>construction and operation of the</li> </ul>  |                      |                         |      |        |         |        |                                  |                                   |

|         | Environmental Protection  | Landing              |                         | Impl | ementa | ation S | tages* | Relevant                         | Implementation Status<br>and Remarks |
|---------|---|----------------------|-------------------------|------|--------|---------|--------|----------------------------------|--------------------------------------|
| EIA Ref | Measures / Mitigation  Measures   | Location /<br>Timing | Implementation<br>Agent | Des  | С      | 0       | Dec    | Legislation<br>and<br>Guidelines |                                      |
|         | Project. Monitoring surveys for WBSE would include pre-construction phase (twice per month for duration of three months during their breeding season -between December and May, immediately before the commencement of works), construction phase, and operation phase (two years after the completion of construction works).  • Surveys should be conducted twice per month during their breeding season (from December to May); and once per month outside breeding season (June to November). More details on monitoring for WBSE are presented in the EM&A Manual. |                      |                         |      |        |         |        |                                  |                                      |
|         | Education of staff  |                      |                         |      |        |         |        |                                  |                                      |
|         | Staff, including captains of all vessels during construction and operation phases, should be aware of the ecological importance of WBSE.  Awareness should be raised among staff to minimise any intentional or unintentional disturbance to the nest.  |                      |                         |      |        |         |        |                                  |                                      |
|         | Minimisation of Glare Disturbance   |                      |                         |      |        |         |        |                                  |                                      |

|           | Environmental Protection   |                                    |                                   |               | Imple       | ementa   | ation S  | tages*                           | Relevant   |             |
|-----------|--|------------------------------------|-----------------------------------|---------------|-------------|----------|----------|----------------------------------|--|-------------|
| EIA Ref   | Measures / Mitigation  Measures  | Location / Implementation De Agent |                                   | Des           | С           | 0        | Dec      | Legislation<br>and<br>Guidelines | Implementation Status and Remarks  |             |
|           | To minimise glare disturbance on WBSE, which may cause disorientation of birds by interfering with their magnetic compass, and disruption in behavioural patterns such as reproduction, fat storage and foraging pattern, any un-necessary outdoor lighting should be avoided, and in-ward and down-ward pointing of lights should be adopted. |                                    |                                   |               |             |          |          |                                  |  |             |
| -         | <ul> <li>Construction of Seawall/Breakwaters</li> <li>To widen the open channel between the Artificial Island and Shek Kwu Chau.</li> <li>To design the precast concrete seawall with environmental friendly features.</li> </ul>  | IWMF site                          | Design contractor, operator       | team,<br>IWMF | <b>&gt;</b> | <b>✓</b> |          |                                  | Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012) | N/A         |
| 7b.8.3.42 | Opt for Quieter Construction Methods and Plants  • Quieter construction methods and plants should be used to minimise disturbance to the nearby terrestrial habitat and the associated wildlife.   | Work site                          | Design<br>contractor,<br>operator | team,<br>IWMF | <b>✓</b>    | <b>√</b> | <b>√</b> | ✓                                | EIAO-TM  | Implemented |
| 7b.8.3.43 | Measures to minimize impacts from artificial lighting     Unnecessary lighting should be avoided, and shielding of lights should be provided to minimize disturbance from light pollution on fauna groups.   | IWMF site                          | Design<br>contractor,<br>operator | team,<br>IWMF | <b>V</b>    | <b>√</b> | <b>✓</b> |                                  | EIAO-TM  | Implemented |

|                                  | Environmental Protection   |                      |                           | Impl | ementa   | ation S  | Stages*  | Relevant                         |  |  |
|----------------------------------|--|----------------------|---------------------------|------|----------|----------|----------|----------------------------------|--|--|
| EIA Ref                          | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent   | Des  | С        | 0        | Dec      | Legislation<br>and<br>Guidelines | Implementation Status and Remarks                                  |  |
| 7b.8.3.4<br>4 -<br>7b.8.3.4<br>5 | <ul> <li>Measures to minimize accidental spillage</li> <li>Regular maintenance of vessels, vehicles and equipment that may cause leakage and spillage should only be undertaken within predesignated areas, which are appropriately equipped to control the associated discharges.</li> <li>Oils, fuels and chemicals should be contained in suitable containers, and only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.</li> </ul> | Work site            | Contractor, IWMF operator |      | <b>✓</b> | <b>✓</b> | •        | EIAO-TM                          | Deficiency of Mitigation Measures but rectified by the Contractor. |  |
| 7b.8.3.46                        | Measures to minimise sewage effluent     Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce.   | Work site            | Contractor                |      | <b>√</b> |          |          | EIAO-TM                          | N/A  |  |
| 7b.8.3.47                        | Measures to minimise drainage and construction runoff  | Work site            | Contractor                |      | <b>√</b> |          | <b>√</b> | EIAO-TM                          | N/A  |  |

|         | Environmental Protection   |                      |                         | Impl | ement | ation S | tages* | Relevant                         | Implementation Status<br>and Remarks |
|---------|--|----------------------|-------------------------|------|-------|---------|--------|----------------------------------|--------------------------------------|
| EIA Ref | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent | Des  | С     | 0       | Dec    | Legislation<br>and<br>Guidelines |                                      |
|         | <ul> <li>Potential ecological impacts resulted from potential degradation of water quality due to unmitigated surface runoff could be minimised via the detailed mitigation measures in Section 5b.8 of the EIA Report. The following presents some of the mitigation measures:         <ul> <li>On-site drainage system with implemented sedimentation control facilities.</li> <li>Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities.</li> <li>Provision of embankment at boundaries of earthworks for flood protection.</li> <li>Water pumped out from foundation piles must be discharged into silt removal facilities.</li> <li>During rainstorms, exposed slope/soil surfaces should be covered by tarpaulin or other means, as far as practicable.</li> <li>Exposed soil surface should be minimized to reduce siltation and runoff.</li> <li>Earthwork final surfaces should be well compacted. Subsequent permanent surface protection should be immediately performed.</li> </ul> </li> </ul> |                      |                         |      |       |         |        |                                  |                                      |

|           | Environmental Protection   |                      |                         | Impl | ementa | ation S  | tages* | Relevant                         | Implementation Status and Remarks |
|-----------|--|----------------------|-------------------------|------|--------|----------|--------|----------------------------------|-----------------------------------|
| EIA Ref   | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent | Des  | С      | 0        | Dec    | Legislation<br>and<br>Guidelines |                                   |
|           | - Open stockpiles of construction materials, and construction wastes onsite should be covered with tarpaulin or similar fabric during rainstorms.  |                      |                         |      |        |          |        |                                  |                                   |
| 7b.8.3.48 | Measures to minimise impacts from general construction activities  | Work site            | Contractor              |      | ✓      |          |        | EIAO-TM                          | Implemented                       |
|           | To avoid the entering of construction solid waste into the nearby habitats, construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby habitats. It is recommended to clean the construction sites on a regular basis. |                      |                         |      |        |          |        |                                  |                                   |
| 7b.8.3.49 | Pest Control Good waste management practices should be adopted at the IWMF in order to minimise the risk of introduction of pest to the island:  | IWMF site            | IWMF operator           |      |        | <b>~</b> |        |                                  | N/A                               |
|           | <ul> <li>Transportation of wastes in enclosed containers</li> <li>Waste storage area should be well maintained and cleaned</li> <li>Waste should only be disposed of at designated areas</li> <li>Timely removal of the newly arrived waste</li> </ul>                     |                      |                         |      |        |          |        |                                  |                                   |
|           | <ul> <li>Removal of items that are capable<br/>of retaining water</li> </ul>   |                      |                         |      |        |          |        |                                  |                                   |

|           | Environmental Protection  |                      |                         | Imple | ementa | ation S | Stages* | Relevant                         | Implementation Status<br>and Remarks |
|-----------|---|----------------------|-------------------------|-------|--------|---------|---------|----------------------------------|--------------------------------------|
| EIA Ref   | Measures / Mitigation  Measures   | Location /<br>Timing | Implementation<br>Agent | Des   | С      | 0       | Dec     | Legislation<br>and<br>Guidelines |                                      |
| 7b.8.3.50 | Rapid clean up of any waste spillages     Maintenance of a tidy and clean site environment     Regular application of pest control     Education of staff the importance of site cleanliness  Control of Marine Habitat Quality during Operation Phase  Depending on the seabed condition of the approach channel for marine vessels during operation phase of the IWMF, maintenance dredging may be required to ensure safe access. In order to avoid degradation in water quality due to elevation in SS and dispersion of sediment plume due to dredging works, it is recommended that any future maintenance dredging works should not be carried out within 100 m from the shore, similar to that of the dredging for anti-scouring protection layer during construction phase. All maintenance dredging | IWMF site            | IWMF operator           |       |        | ✓ <     |         |                                  |                                      |
|           | works should be carried out with the implementation of silt curtain to control the dispersion of SS. The production rate should comply with the permit  |                      |                         |       |        |         |         |                                  |                                      |
|           | dredging rate and number of grab per hour.  |                      |                         |       |        |         |         |                                  |                                      |

|                                | Environmental Protection   | Location /           |                         | Impl | ementa | ation S | tages* | Relevant                         |                                      |
|--------------------------------|--|----------------------|-------------------------|------|--------|---------|--------|----------------------------------|--------------------------------------|
| EIA Ref                        | Measures / Mitigation  Measures  | Location /<br>Timing | Implementation<br>Agent | Des  | С      | 0       | Dec    | Legislation<br>and<br>Guidelines | Implementation Status<br>and Remarks |
| 7b.8.4.<br>1 –<br>7b.8.4.<br>8 | Measures  Compensation of loss of important habitat of Finless Porpoise  Designation of Marine Park  The Project Proponent has made a firm commitment to seek to designate a marine park of approximately 700 ha in the waters between Soko Islands and Shek Kwu Chau, in accordance with the statutory process stipulated in the Marine Parks Ordinance, as a compensation measure for the habitat loss arising from the construction of the IWMF at the artificial island near SKC.  The Project Proponent shall seek to complete the designation by 2018 to tie in with the operation of the IWMF at the artificial island near SKC.  A further study should be carried out | Timing               | -                       | Des  | С      | 0       | Dec    | and                              |                                      |
|                                | to review relevant previous studies and collate available information on the ecological characters of the proposed area for marine park designation; and review available survey data for Finless Porpoise, water quality, fisheries, marine traffic and planned development projects in the vicinity. Based on the findings, ecological profiles of the proposed area for   |                      |                         |      |        |         |        |                                  |                                      |

|                                | Environmental Protection<br>Measures / Mitigation<br>Measures  |   |                         | lmpl     | ementa | tion S | tages* | Relevant                         | Insulance at ation Otation        |
|--------------------------------|--|---|-------------------------|----------|--------|--------|--------|----------------------------------|-----------------------------------|
| EIA Ref                        |  | Location /<br>Timing                        | Implementation<br>Agent | Des      | С      | 0      | Dec    | Legislation<br>and<br>Guidelines | Implementation Status and Remarks |
|                                | marine park designation should be established, and the extent and location of the proposed marine park be determined. The adequacy of enhancement measures should also be reviewed.  |   |                         |          |        |        |        |                                  |                                   |
|                                | <ul> <li>In addition, a management plan for the proposed marine park should be proposed, covering information on the responsible departments for operation and management (O&amp;M) of the marine park, as well as the O&amp;M duties of each of the departments involved.         <ul> <li>Consultation with relevant government departments and stakeholders should be conducted under the study. The study should be submitted to Director of Environmental Protection (DEP) for approval before the commencement of construction works.</li> </ul> </li> </ul> |   |                         |          |        |        |        |                                  |                                   |
|                                | The Project Proponent should provide assistance to AFCD during the process of the marine park designation.   |   |                         |          |        |        |        |                                  |                                   |
| 7b.8.5.<br>1 –<br>7b.8.5.<br>4 | Additional Enhancement or Precautionary Measures Deployment of Artificial Reefs  • Deployment of artificial reefs (ARs) is an enhancement measure for the  | Within the proposed marine park under study | Project Proponent       | <b>✓</b> |        | ✓      |        | EIAO-TM                          | N/A                               |

|         | Environmental Protection   |                      |                         | Impl | ement | ation S | Stages* | Relevant                         | Immlementation Otatus             |
|---------|--|----------------------|-------------------------|------|-------|---------|---------|----------------------------------|-----------------------------------|
| EIA Ref | Measures / Mitigation Measures   | Location /<br>Timing | Implementation<br>Agent | Des  | С     | 0       | Dec     | Legislation<br>and<br>Guidelines | Implementation Status and Remarks |
|         | marine habitats. ARs are proposed to be deployed within the proposed marine park under this Project. The exact location, dimension and type of ARs to be deployed are to be further investigated along with the further study of the proposed marine park under this Project. The proposed ARs would be deployed at the same time as the complete designation of marine park.  Release of Fish Fry at Artificial Reefs and Marine Park |                      |                         |      |       |         |         |                                  |                                   |
|         | • Release of fish fry at the proposed ARs, as well as the proposed marine park under this study, should enhance the fish resources in the nearby waters, and subsequently food sources for Finless Porpoise. The proposed ARs with various micro-habitats would have the potential to provide shelter and nursery ground for the released fish fry. The frequency and quantity of fry to be released should be agreed by AFCD.         |                      |                         |      |       |         |         |                                  |                                   |

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table B.6 Implementation Schedule for Fisheries Measures for the IWMF at the artificial island near SKC

|          |   |                      |  |          | leme | ntation | Stages*  | Relevant                         | Implementation        |
|----------|---|----------------------|--|----------|------|---------|----------|----------------------------------|-----------------------|
| EIA Ref  | Environmental Protection Measures / Mitigation Measures   | Location /<br>Timing | Implementation<br>Agent                | Des      | C    | 0       | Dec      | Legislation<br>and<br>Guidelines | Status and<br>Remarks |
| 8b.8.1.2 | Measure to minimize loss of and disturbance on fisheries resources  | IWMF site            | Design team, contractor                | <b>√</b> | ~    | /       | <b>~</b> | EIAO-TM                          | N/A                   |
|          | <ul> <li>Alteration to the phasing of works, construction method, and layout plan of the IWMF at the artificial island near SKC has been made. The total fishing ground to be permanently lost due to the project has been significantly reduced from ~50 ha to ~31 ha. By adopting the current circular cells instead of the conventional seawall construction method, SS elevation would be greatly reduced, minimizing adverse impact on the health of fisheries resources.</li> </ul> |                      |  |          |      |         |          |                                  |                       |
| 8b.8.1.3 | Measure to minimize impingement and entrainment  Provision of a screen at the water intake point for desalination plant would be essential to minimize the risk of impingement and entrainment of fisheries resources (including fish, larvae and egg) through the intake point.  | IWMF site            | Design team, contractor, IWMF operator |          | •    |         |          | EIAO-TM                          | N/A                   |

|                           |   |  |  |          | ementa   | ation S  | Stages*  | Relevant                         | Implementation        |
|---------------------------|---|--|--|----------|----------|----------|----------|----------------------------------|-----------------------|
| EIA Ref                   | Environmental Protection Measures / Mitigation Measures   | Location /<br>Timing   | Implementation<br>Agent                | Des      | С        | 0        | Dec      | Legislation<br>and<br>Guidelines | Status and<br>Remarks |
| 8b.8.1.4-<br>8b.8.1.6     | Measures to control water quality     No wastewater effluent, anti-fouling agent, heavy metals and other contaminants would be released during operation phase of the Project.      Mitigation maggures recommended in the  | Work site,<br>IWMF<br>site   | Design team, contractor, IWMF operator | <b>√</b> | <b>√</b> | <b>✓</b> | <b>√</b> | EIAO-TM                          | Implemented           |
|                           | <ul> <li>Mitigation measures recommended in the<br/>water quality impact assessment during<br/>construction and operation would serve to<br/>protect fisheries resources from indirect<br/>impacts resulted from the Project</li> </ul>   |  |  |          |          |          |          |                                  |                       |
| 8b.8.1.7<br>-<br>8b.8.1.8 | Additional Enhancement / Precautionary  Measures  Artificial Reefs (ARs) are proposed to be deployed within the proposed marine park under this Project as an enhancement measure for the marine habitats. This enhancement feature would bring positive impacts to the previously identified important spawning and nursery ground for fisheries resources.  Release of Fish Fry at Artificial Reefs  Release of fish fry has been proposed under this Project. The proposed deployment of ARs within the proposed marine park would | Within the proposed marine park in the waters between Soko Islands and Shek Kwu Chau | Project Proponent                      |          |          | <b>*</b> |          | EIAO-TM                          | N/A                   |
|                           | ARs within the proposed marine park would provide shelter and nursery ground for the released fish fry. The frequency and quantity of fry to be released should be agreed by AFCD.  |  |  |          |          |          |          |                                  |                       |

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table B.7 Implementation Schedule for Landscape and Visual Measures for the IWMF at the artificial island near SKC

|                     | Environmental Protection<br>Measures / Mitigation Measures   |  |                         | Imple    | ementa   | ation S | tages* | Relevant                         | Implementation        |
|---------------------|--|--|-------------------------|----------|----------|---------|--------|----------------------------------|-----------------------|
| EIA Ref             |  | Location /<br>Timing                                     | Implementation<br>Agent | Des      | С        | 0       | Dec    | Legislation<br>and<br>Guidelines | Status and<br>Remarks |
| S10b.10<br>MLVC- 01 | Grass-hydroseeded bare soil surface and stock pile area  | Work site /<br>During<br>construction<br>phase           | Contractor              |          | <b>√</b> |         |        |                                  | N/A                   |
| S10b.10<br>MLVC-02  | <ol> <li>Landscape Design</li> <li>Early planting using fast grow trees and tall shrubs at strategic locations within site as buffer to block view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works.</li> <li>Use of tree species of dense tree crown to serve as visual barrier.</li> <li>Hard and soft landscape treatment (e.g. trees and shrubs) of open areas within development to provide a background for the outdoor containers from open view, shade and shelter, and a green appearance from surrounding viewpoints.</li> <li>Planting strip along the periphery of the project site.</li> <li>Selected tree species suitable for the coastal condition.</li> </ol> | Work site /<br>During design<br>& construction<br>phases | Contractor              | <b>✓</b> | <b>✓</b> |         |        |                                  | N/A                   |

|                    |   |  |                         | Imple | ementa   | ation S | tages* | Relevant                         | Implementation        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|---|--|-------------------------|-------|----------|---------|--------|----------------------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| EIA Ref            | Environmental Protection<br>Measures / Mitigation Measures  | Location /<br>Timing                                     | Implementation<br>Agent | Des   | С        | 0       | Dec    | Legislation<br>and<br>Guidelines | Status and<br>Remarks |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| S10b.10<br>MLVC-03 | Adoption of Natural Features of the Existing Shoreline  1) Use of boulders in different sizes and with the similar textures of the existing rocky shores for the construction of breakwater and artificial shoreline in order to blend into the existing natural shoreline.   | Work site /<br>During<br>construction<br>phase           | Contractor              |       | <b>✓</b> |         |        | N/.                              | A                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | <ol> <li>Use of cellular cofferdam together with<br/>the natural boulders to form a curvature<br/>shoreline for the reclamation area to echo<br/>with the natural shoreline of SKC.</li> </ol>  |  |                         |       |          |         |        |                                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| S10b.10<br>MLVC-04 | Greening Design (Rooftop & Vertical Greening)  1) Implementation of rooftop and vertical greening (vertical building envelope) along the periphery of each building block to increase the amenity value of the work, moderate temperature extremes and enhance building energy performance. The greening appearance of the building shall enhance its visual harmony with the natural surroundings as well as reduce the apparent visual mass of the structure. | Work site /<br>During design<br>& construction<br>phases | Contractor              | ~     | <b>✓</b> |         |        | N/.                              | A                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | <ol> <li>Sufficient space between concrete<br/>enclosure and stack to minimize heat<br/>transfer.</li> </ol>  |  |                         |       |          |         |        |                                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 3) Introduction of landscape decks at the stack to further enhance the overall natural and green concept unique for this site.  |  |                         |       |          |         |        |                                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                   |  |  |                         | Imple    | ementa   | ation S | tages* | Relevant                         | Implementation        |  |  |  |  |  |
|-------------------|--|--|-------------------------|----------|----------|---------|--------|----------------------------------|-----------------------|--|--|--|--|--|
| EIA Ref           | Environmental Protection Measures / Mitigation Measures  | Location /<br>Timing                           | Implementation<br>Agent | Des      | С        | 0       | Dec    | Legislation<br>and<br>Guidelines | Status and<br>Remarks |  |  |  |  |  |
| S10b.10<br>MVC-01 | Visual Mitigation and Aesthetic Design   | Structures in IWMF /                           | Contractor              | <b>✓</b> | ✓        |         |        |                                  | N/A                   |  |  |  |  |  |
| MVC-01            | Use of natural materials with recessive color to minimize the bulkiness of the building.   | During design & constructio                    |                         |          |          |         |        |                                  |                       |  |  |  |  |  |
|                   | <ol> <li>Adoption of innovative aesthetic design to<br/>the chimney to minimize or visually<br/>mitigate the massing of the chimney so as<br/>to reduce its visual impact to the<br/>surroundings.</li> </ol>  | n phases                                       |                         |          |          |         |        |                                  |                       |  |  |  |  |  |
|                   | <ol> <li>Color of the chimney in a gradual<br/>changing manner to match with the<br/>color of the sky.</li> </ol>  |  |                         |          |          |         |        |                                  |                       |  |  |  |  |  |
|                   | <ol> <li>Provision of observation deck for public<br/>enjoyment at the top of the chimney to<br/>diminish the feeling of chimney.</li> </ol>   |  |                         |          |          |         |        |                                  |                       |  |  |  |  |  |
|                   | 5) Provision of sky gardens between the two stacks to allow additional greening for enhancing the aesthetic quality.  Maintenance access (elevator and staircase) from the ground floor to the sky gardens will be provided to allow maintenance of the sky gardens. |  |                         |          |          |         |        |                                  |                       |  |  |  |  |  |
|                   | <ol> <li>Integration of the visitor's walkway with<br/>different material façade design of<br/>incinerator plant to enhance the aesthetic<br/>quality.</li> </ol>  |  |                         |          |          |         |        |                                  |                       |  |  |  |  |  |
| S10b.10<br>MVC-02 | Control of the security floodlight for construction areas at night to avoid excessive glare to the surrounding receiver.   | Work site /<br>During<br>construction<br>phase | Contractor              |          | <b>√</b> |         |        |                                  | Implemented           |  |  |  |  |  |

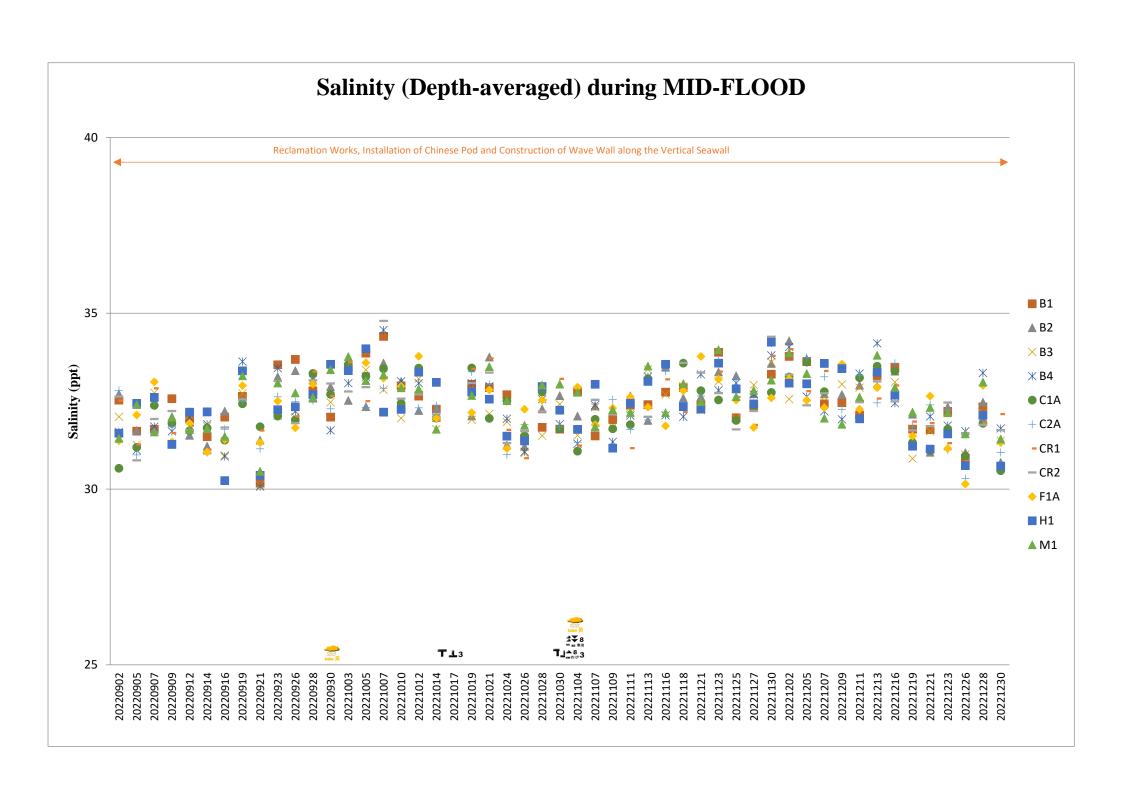
|                    |   |  |                         | Imple | menta    | tion S   | tages* | Relevant                         | Implementation        |
|--------------------|---|--|-------------------------|-------|----------|----------|--------|----------------------------------|-----------------------|
| EIA Ref            | Environmental Protection Measures / Mitigation Measures   | Location /<br>Timing                                     | Implementation<br>Agent | Des   | С        | 0        | Dec    | Legislation<br>and<br>Guidelines | Status and<br>Remarks |
| S10b.10<br>MVC-03  | Optimization of the construction sequence and construction programme to minimize the duration of impact.  | Work site /<br>During design<br>& construction<br>phases | Contractor              | <     | ✓        |          |        |                                  | Implemented           |
| S10b.10<br>MVC-04  | Storage of the backfilling materials for site formation & construction materials / wastes on site at a maximum height of 2m, covered with an impermeable material of visually unobtrusive material (in earth tone).   | Work site /<br>During<br>construction<br>phase           | Contractor              |       | <b>√</b> |          |        |                                  | N/A                   |
| S10b.10<br>MVC-05  | Reduction of the number of construction traffic at the site to practical minimum.   | Work site /<br>During<br>construction<br>phase           | Contractor              |       | ✓        |          |        |                                  | Implemented           |
| S10b.10<br>MLVO-01 | Planting Maintenance  Provision of proper planting maintenance and replacement of defective plant species on the new planting areas to enhance aesthetic and landscape quality.   | Project site /<br>During<br>Operation<br>phase           | Contractor              |       |          | <b>√</b> |        |                                  | N/A                   |
| S10b.10<br>MVO-01  | Environmental Education Centre  Development of an Environmental Education Center, in which regular exhibitions and lectures to promote environmental awareness and waste reduction concept would be provided, as a part of the IWMF for the general public to alleviate negative public perceptions of the development. | Project site /<br>During<br>Operation<br>phase           | Contractor              |       |          | <b>✓</b> |        |                                  | N/A                   |
| S10b.10<br>MVO-02  | Control of Light  Control the numbers of lights and their intensity to a level that is good enough to meet the safety requirements at night but not excessive.  | Project site /<br>During<br>Operation<br>phase           | Contractor              |       |          | <b>✓</b> |        |                                  | N/A                   |

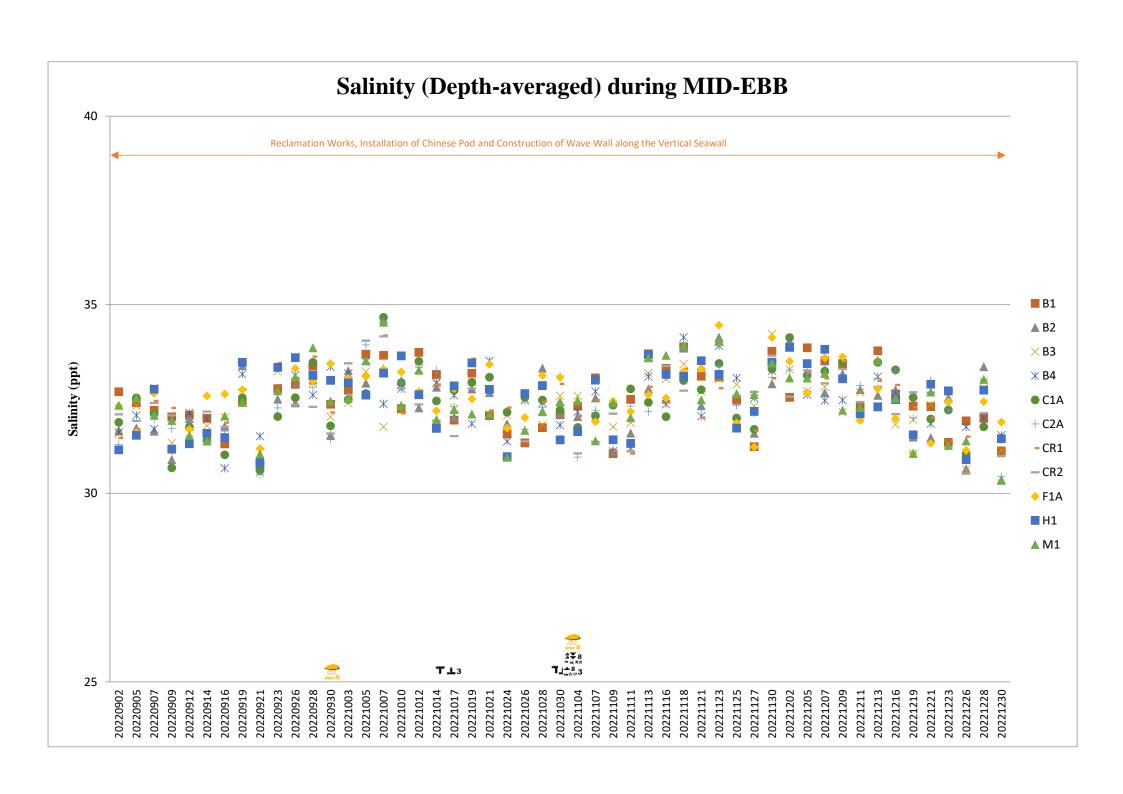
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|------------|-------|------------|-------------|---------|
|            |       |            |             |         |

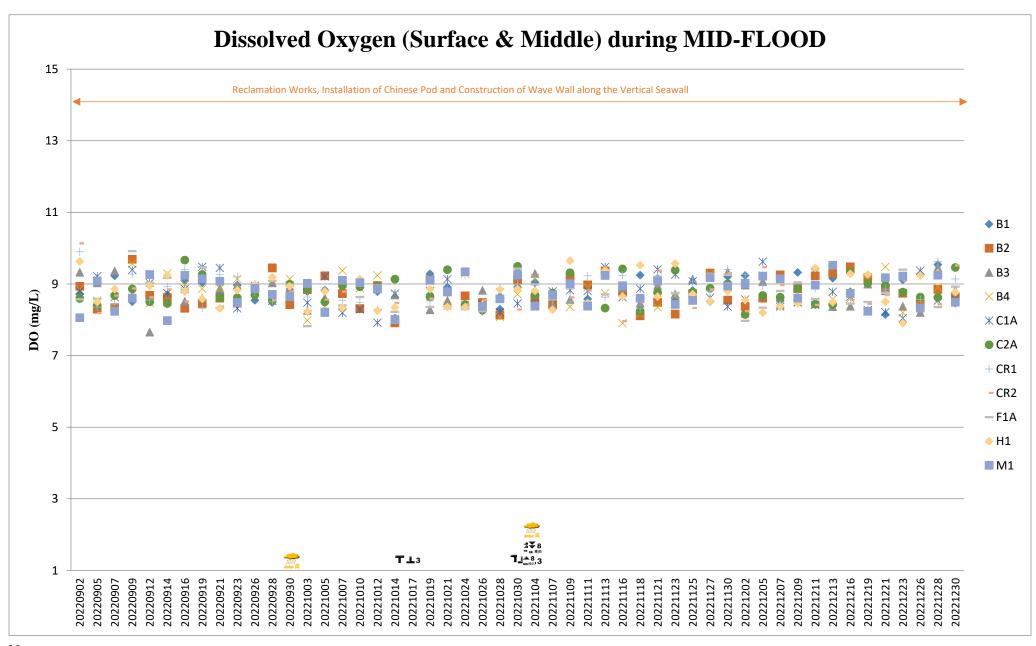
| EIA Ref           | Environmental Protection<br>Measures / Mitigation Measures   | Location /<br>Timing     | Implementation<br>Agent | Imple<br>Des | ementa<br>C | tion S<br>O | tages*<br>Dec | Relevant<br>Legislation<br>and<br>Guidelines | Implementation<br>Status and<br>Remarks |
|-------------------|--|--------------------------|-------------------------|--------------|-------------|-------------|---------------|--|---|
| S10b.10<br>MVO-03 | Control of Operation Time  | Project site /<br>During | Contractor              |              |             | ✓           |               |  | N/A                                     |
| 1010 0-03         | Minimization of the frequency of waste transportation to practical minimum (e.g. limit the reception of MSW from 8 am to 8 pm) | Operation                |                         |              |             |             |               |  |   |

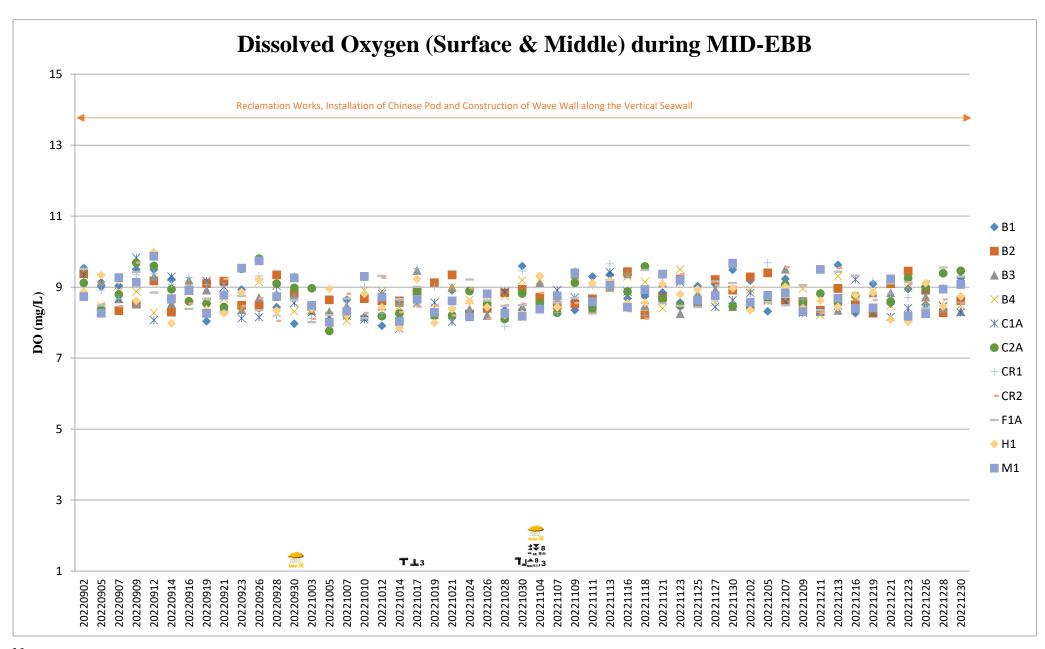
<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

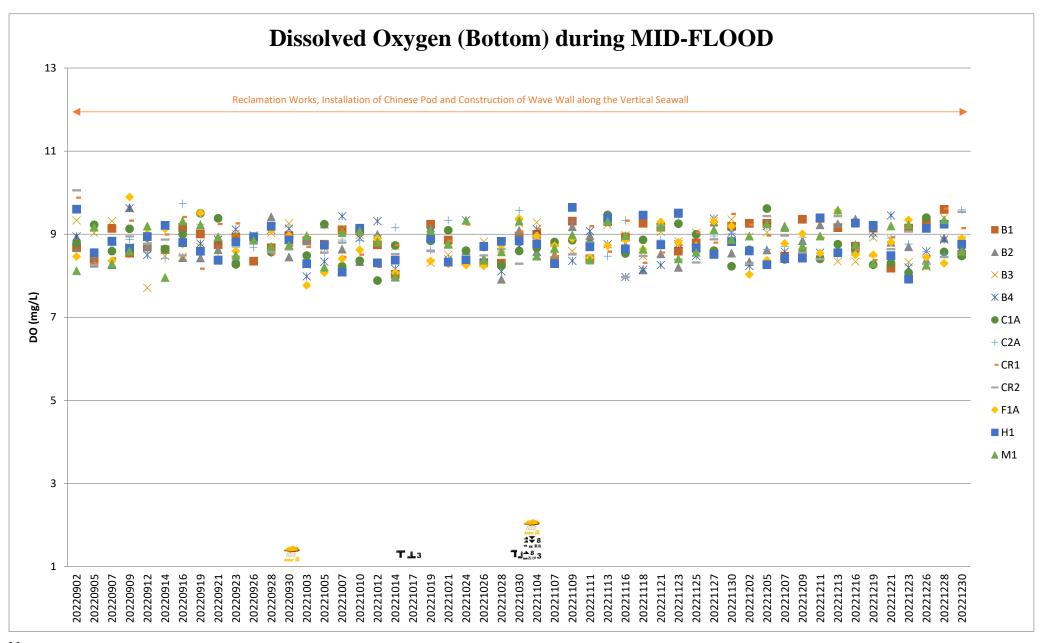
| Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 |                       | Keppel Seghers – Zhen Hua Joint Venture |
|--|-----------------------|---|
|  |                       |   |
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| Appendix C   | Water Quality Monitor | ring Data Trending                      |
|  |                       |   |
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|  |                       |   |

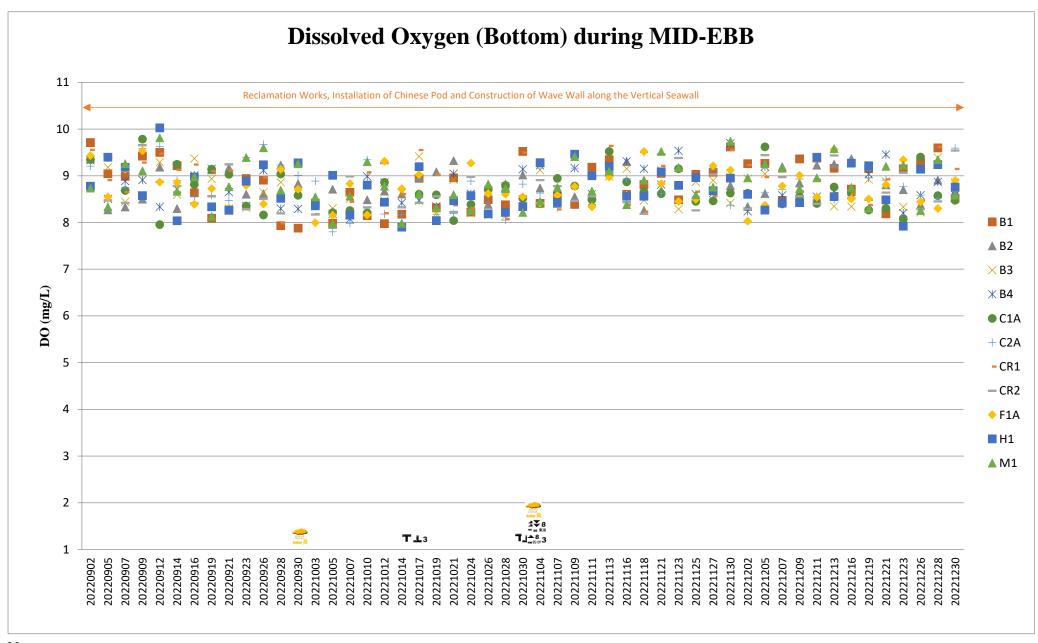


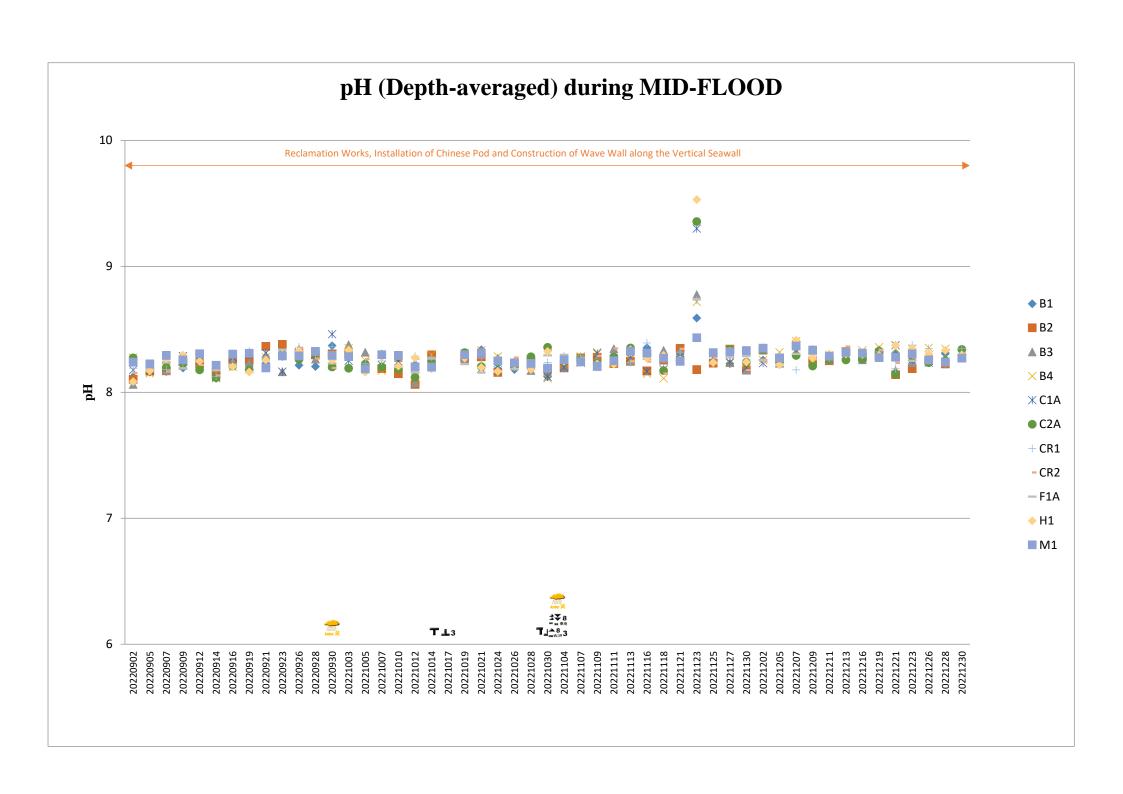


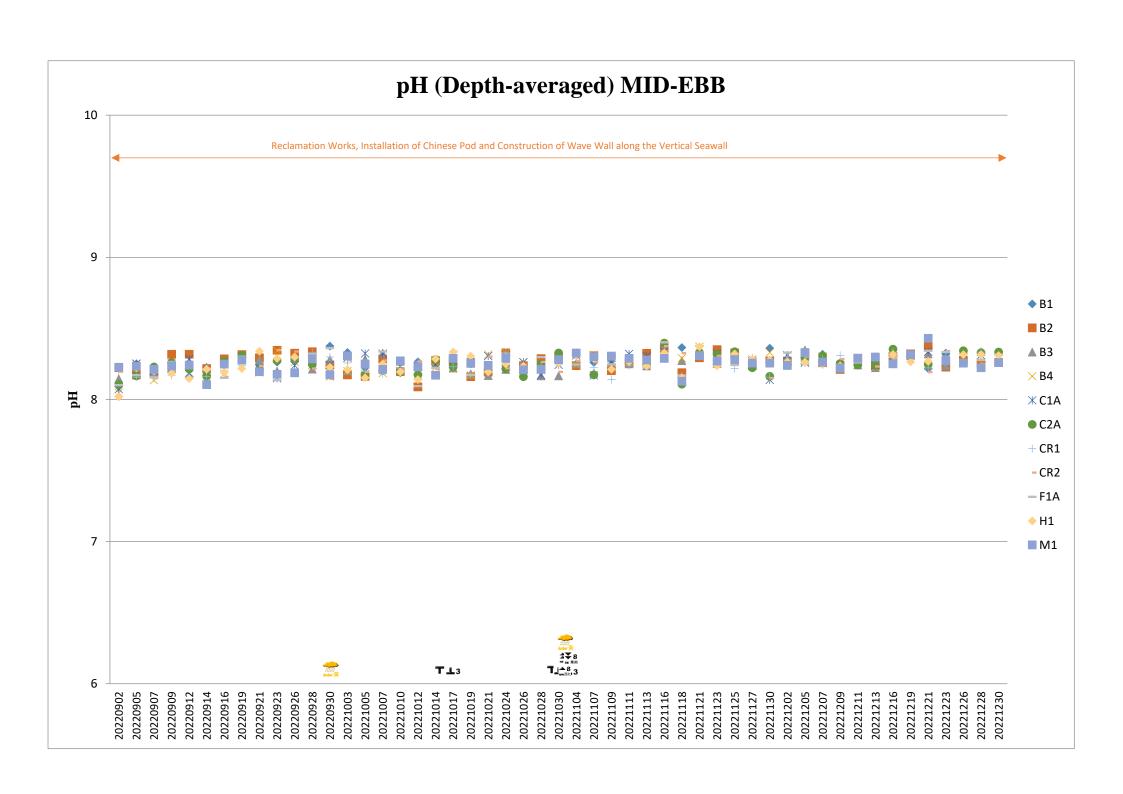


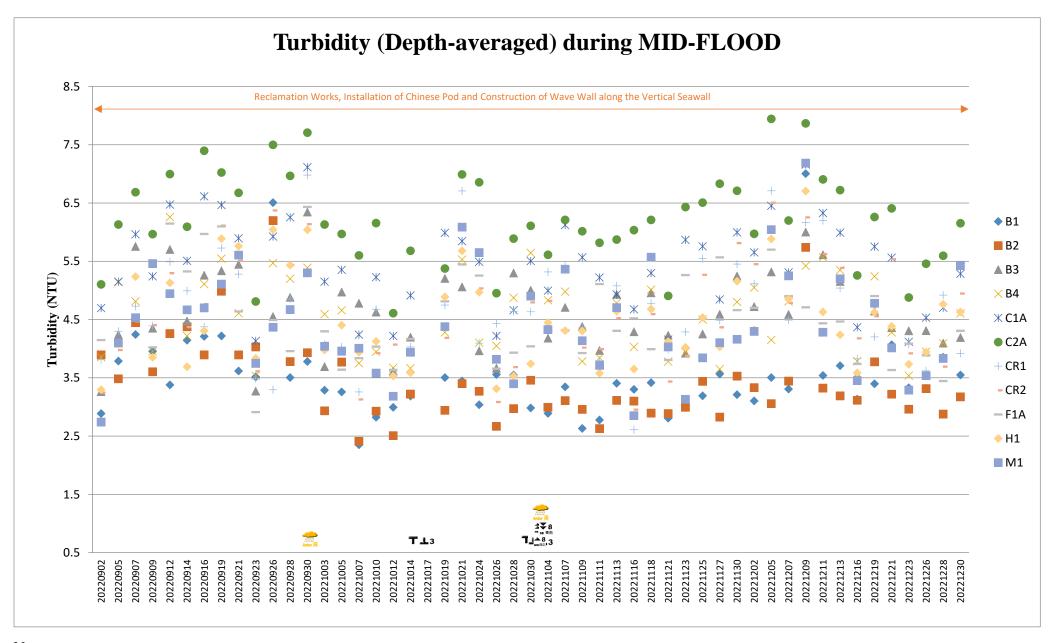


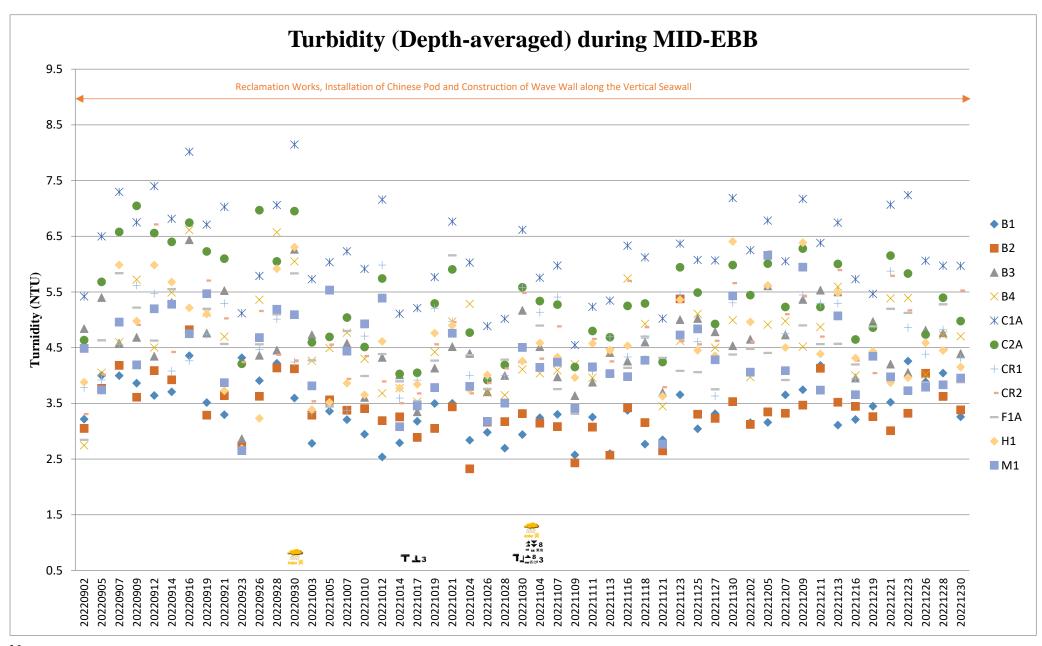


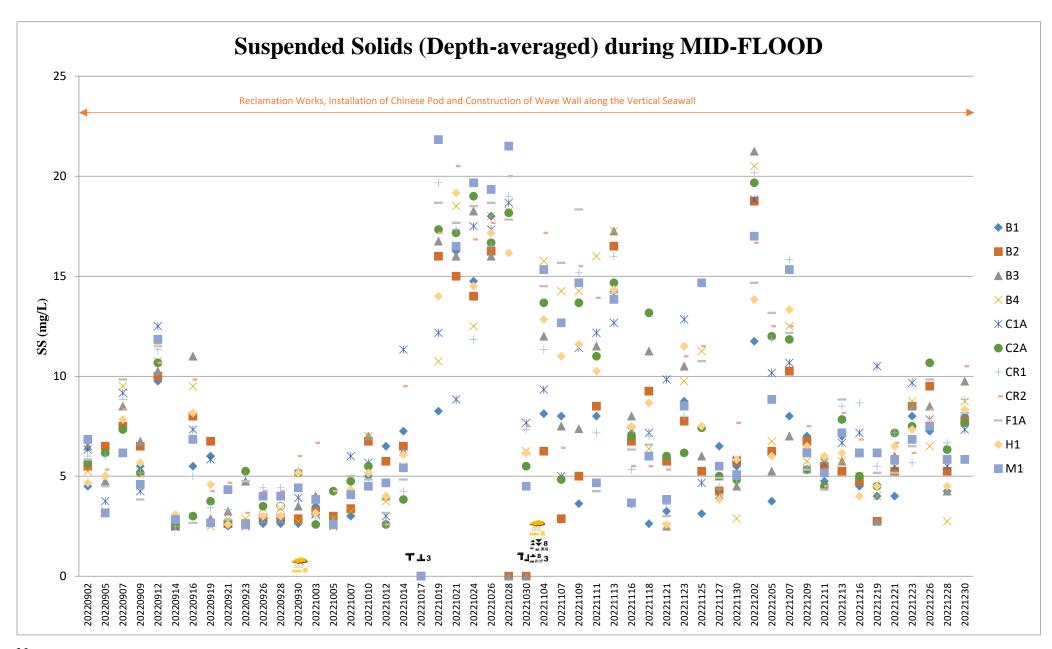


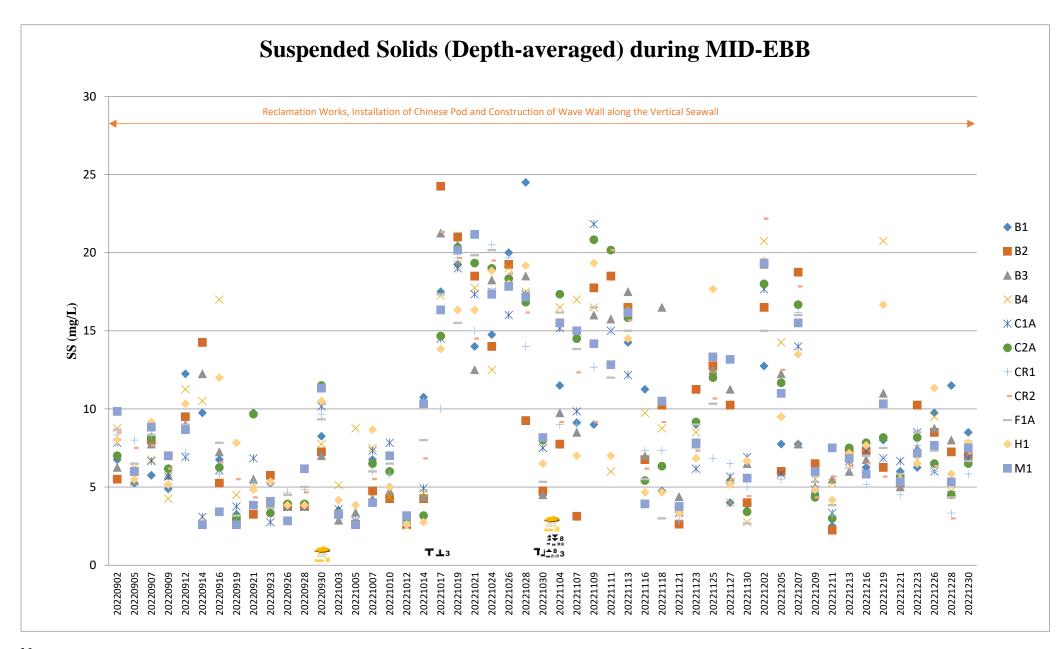


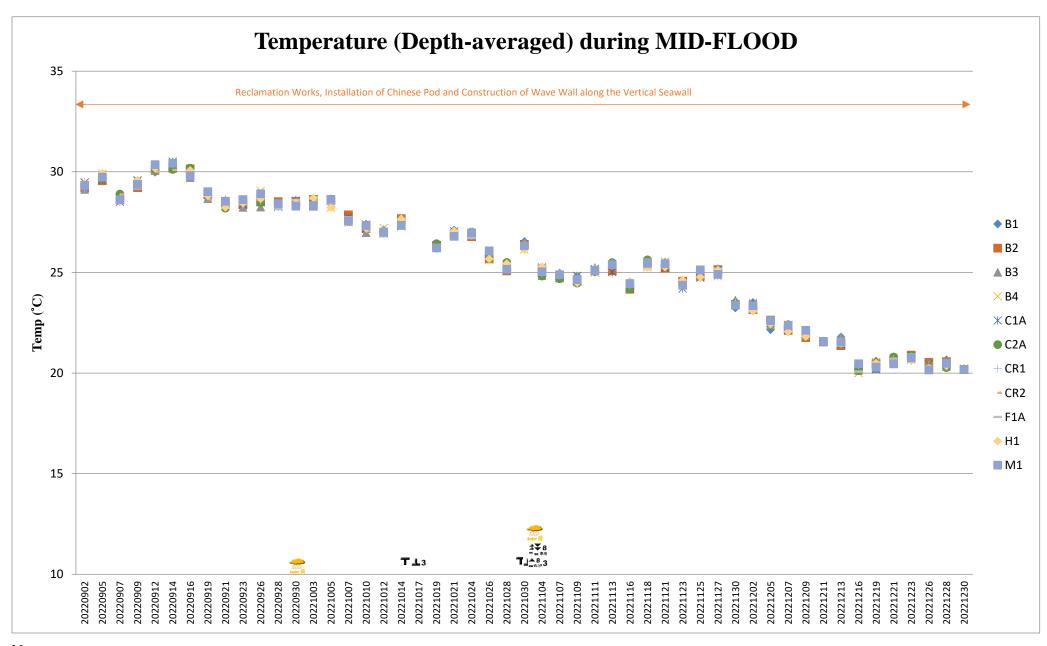






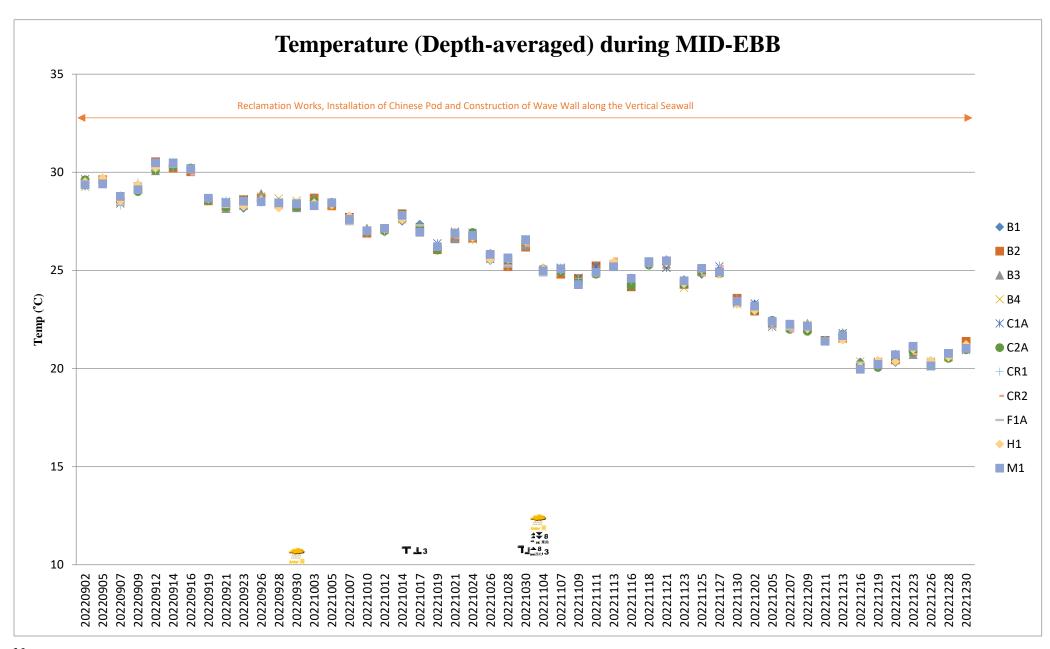






#### Note:

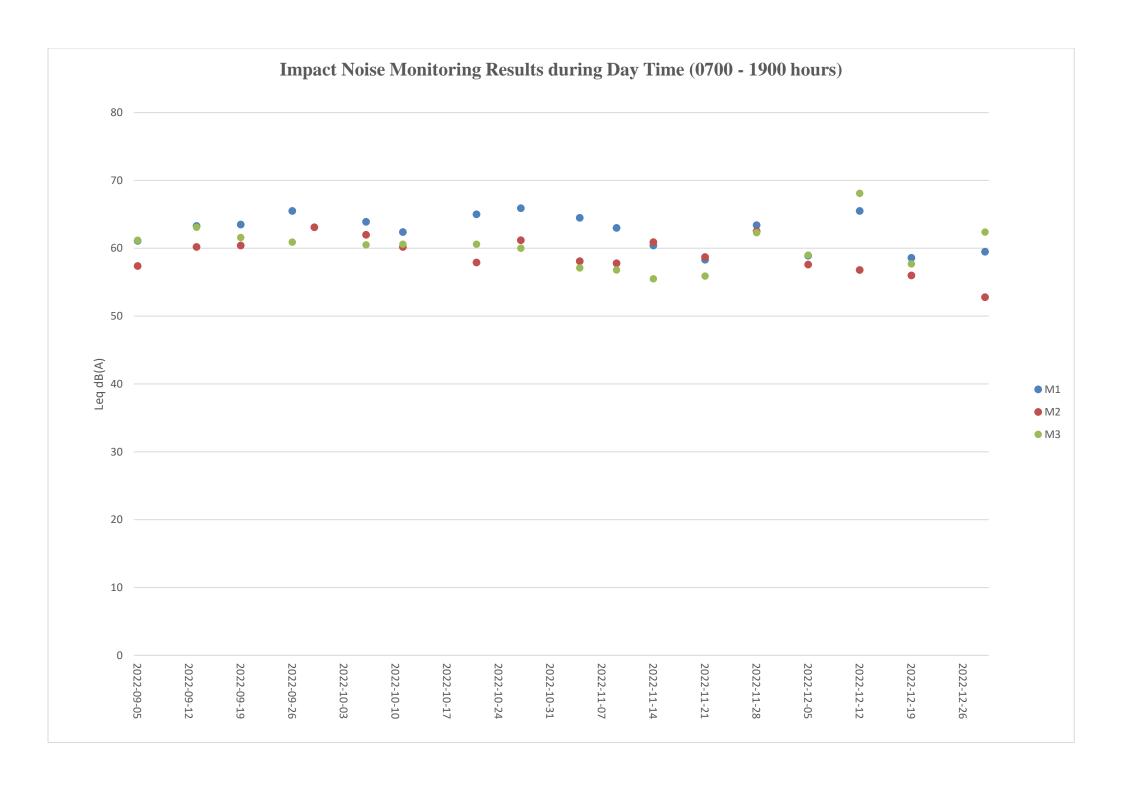
1. The Action and Limit Levels of dissolved oxygen can be referred to **Table 2.2** of the quarterly EM&A report.

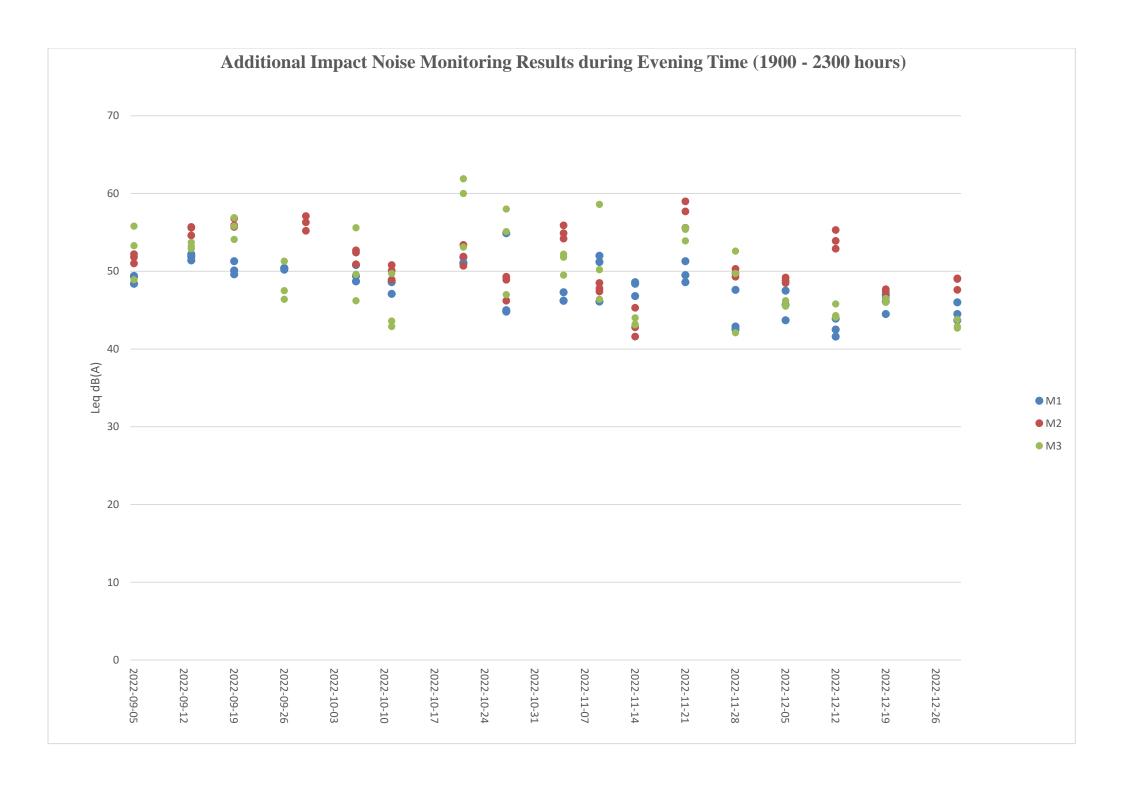


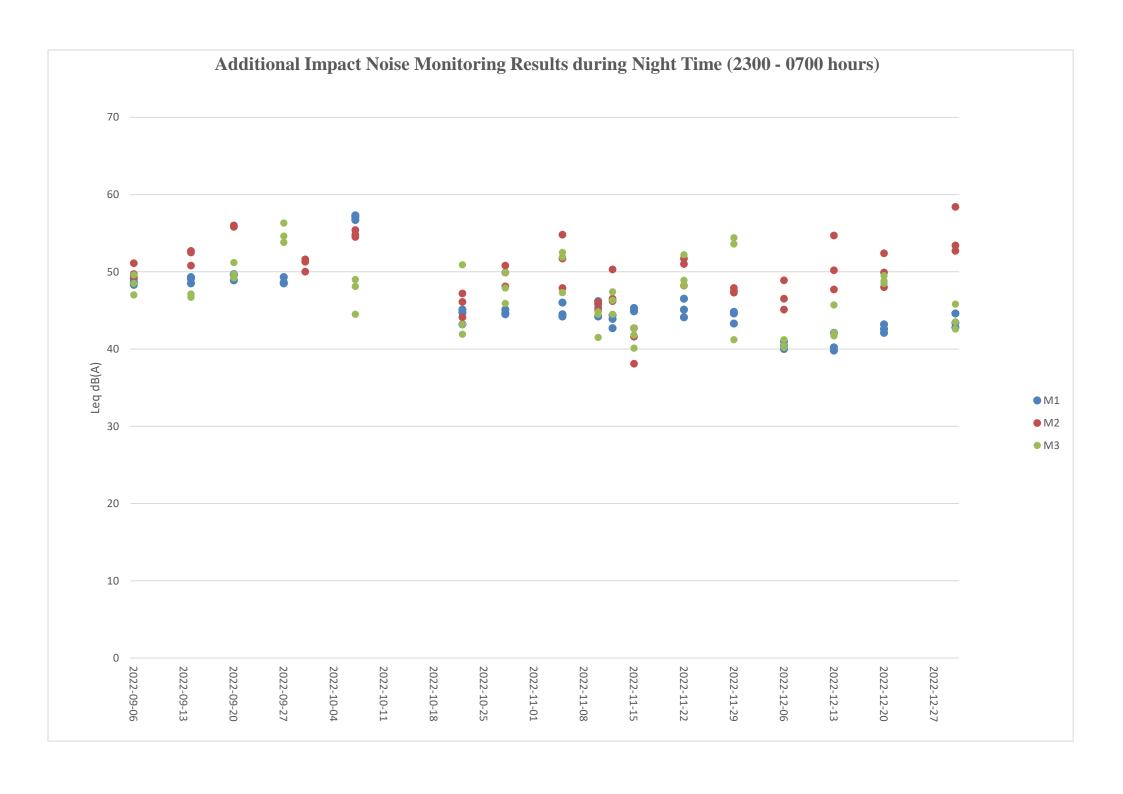
#### Note:

1. The Action and Limit Levels of dissolved oxygen can be referred to **Table 2.2** of the quarterly EM&A report.

| Contract No. EP/SP/66<br>Integrated Waste Mana | /12<br>gement Facilities, Phase 1 | Keppel Seghers – Zhen Hua Joint Venture |
|--|-----------------------------------|---|
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
| Appendix D                                     | Noise Monitoring Data To          | rending                                 |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |







## Summary of the Construction Activities Undertaken during the Reporting Period

| Location of works | Construction activities undertaken                                 | Remarks on progress |
|-------------------|--|---------------------|
| Reclamation area  | Reclamation works  | On-going            |
|                   | Installation of Instrumentation                                    | On-going            |
|                   | Site Investigation works for foundation                            | On-going            |
|                   | Foundation works (including Driven H Pile and Socketed H Pile)     | On-going            |
|                   | Pile cap construction  | On-going            |
|                   | Structural steel work  | On-going            |
| Seawall portion   | Installation of Chinese Pod  | On-going            |
|                   | • Caisson extension works, from +3mPD to +6mPD, at Seawall A and B | On-going            |
|                   | Construction of wave wall along the vertical seawall               | On-going            |

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1/

N\_S1)

Monitoring date: 06, 11, 21, 27 October 2022 (Daytime)

06&07, 11&12, 21&22, 27&28 October 2022 (Evening & Night time)

Parameter :  $L_{eq 30min}$  (Daytime),  $L_{eq 5min}$  (Evening & Night time)

Noise source other than construction activities from

the Project:

Nil

| Date            | Start<br>time |   | End<br>time | Weather | $\begin{array}{c} L_{eq \; 30min}  dB(A) \; / \\ L_{eq \; 5min}  dB(A) \end{array}$ | Sound Level<br>Meter Used       | Calibrator<br>Used          |
|-----------------|---------------|---|-------------|---------|---|---------------------------------|-----------------------------|
| 06 Oct<br>2022  | 13:25         | - | 13:55       | Sunny   | 63.9  | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 06.0-4          | 19:10         | - | 19:15       |         | 48.7  | CMANI 071 (C - :: -1            | D: NC 75                    |
| 06 Oct<br>2022  | 20:05         | - | 20:10       | Fine    | 50.8  | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 2022            | 21:05         | - | 21:10       |         | 49.4  | NO. 105462)                     | (10.54/24244)               |
| 07 Oct          | 1:05          | 1 | 1:10        |         | 56.7  | SVAN 971 (Serial                | Rion NC-75                  |
| 2022            | 3:10          | - | 3:15        | Fine    | 57.1  | No. 103482)                     | (No.34724244)               |
| 2022            | 5:05          | - | 5:10        |         | 57.3  | No. 103462)                     | (110.34/24244)              |
| 11 Oct<br>2022  | 14:01         | 1 | 14:31       | Sunny   | 62.4  | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 11 Oct          | 19:11         | - | 19:16       |         | 47.1  | SVAN 971 (Serial                | Rion NC-75                  |
| 2022            | 20:06         | - | 20:11       | Fine    | 48.8  | No. 96062)                      | (No.34724244)               |
| 2022            | 21:11         | - | 21:16       |         | 48.6  | 140. 90002)                     | (110.34724244)              |
| 12 Oct          | 1:11          | - | 1:16        | Fine    | 44.4  | SVAN 971 (Serial                | Rion NC-75                  |
| 2022            | 3:16          | - | 3:21        |         | 43.9  | No. 96062)                      | (No.34724244)               |
| 2022            | 5:11          | - | 5:16        |         | 42.7  | 140. 70002)                     | , ,                         |
| 21 Oct<br>2022  | 13:29         | - | 13:59       | Sunny   | 65.0  | SVAN 971 (Serial<br>No. 96063)  | Rion NC-75<br>(No.34724244) |
| 21.0            | 19:09         | - | 19:14       |         | 51.1  | GMAN 071 (G : 1                 | D: NC 75                    |
| 21 Oct<br>2022  | 20:14         | - | 20:19       | Fine    | 51.8  | SVAN 971 (Serial                | Rion NC-75                  |
| 2022            | 21:14         | - | 21:19       |         | 51.0  | No. 96063)                      | (No.34724244)               |
| 22 Oct          | 1:24          | 1 | 1:29        |         | 44.7  | SVAN 971 (Serial                | Rion NC-75                  |
| 2022            | 3:09          | - | 3:14        | Fine    | 45.1  | No. 96063)                      | (No.34724244)               |
| 2022            | 5:14          | - | 5:19        |         | 43.2  | 10.90003)                       | (110.34/24244)              |
| 27 Oct<br>2022  | 13:20         | - | 13:50       | Sunny   | 65.9  | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 27 Oct          | 19:05         | - | 19:10       |         | 45.0  | CVAN 071 (Comic)                | Rion NC-75                  |
| 27 Oct 2022     | 20:10         | - | 20:15       | Fine    | 54.9  | SVAN 971 (Serial<br>No. 103482) | (No.34724244)               |
| 2022            | 21:10         | - | 21:15       |         | 44.8  | No. 103482)                     | (110.54/24244)              |
| 28 Oat          | 1:10          | - | 1:15        |         | 44.6  | SVAN 971 (Serial                | Rion NC-75<br>(No.34724244) |
| 28 Oct - 2022 - | 3:15          | - | 3:20        | Fine    | 45.1  | No. 103482)                     |                             |
| 2022            | 5:25          | - | 5:30        |         | 44.5  | 110. 103402)                    | (110.34/24244)              |

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1/

N\_S1)

Monitoring date: 04, 09, 14, 21, 28 November 2022 (Daytime)

04&05, 09&10, 14&15, 21&22, 28&29 November 2022 (Evening &

Night time)

Parameter: Leq 30min (Daytime), Leq 5min (Evening & Night time)

Noise source other than construction activities from

Nil

the Project:

| Date           | Start<br>time |   | End<br>time | Weather | $\begin{array}{c} L_{eq \; 30min}  dB(A) \; / \\ L_{eq \; 5min}  dB(A) \end{array}$ | Sound Level<br>Meter Used      | Calibrator<br>Used          |
|----------------|---------------|---|-------------|---------|---|--------------------------------|-----------------------------|
| 04 Nov<br>2022 | 13:09         | - | 13:39       | Sunny   | 64.5  | SVAN 971 (Serial<br>No. 96062) | Rion NC-75<br>(No.34724244) |
| 04.01          | 19:04         | - | 19:09       |         | 46.2  | GMAN 071 (C : 1                | D: NO 75                    |
| 04 Nov<br>2022 | 20:04         | - | 20:09       | Fine    | 47.3  | SVAN 971 (Serial               | Rion NC-75<br>(No.34724244) |
| 2022           | 21:09         | - | 21:14       |         | 46.2  | No. 96062)                     | (1NO.34/24244)              |
| 05 Nov         | 1:09          | - | 1:14        |         | 46.0  | CVAN 071 (Comic)               | Rion NC-75                  |
| 2022           | 3:14          | - | 3:19        | Fine    | 44.5  | SVAN 971 (Serial No. 96062)    | (No.34724244)               |
| 2022           | 5:19          | - | 5:24        |         | 44.2  | No. 90002)                     | (10.54/24244)               |
| 09 Nov<br>2022 | 13:18         | - | 13:48       | Fine    | 63.0  | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| OO New         | 19:03         | - | 19:08       |         | 46.1  | CVAN 071 (Comic)               | Dian NC 75                  |
| 09 Nov<br>2022 | 20:04         | - | 20:09       | Fine    | 52.0  | SVAN 971 (Serial No. 96063)    | Rion NC-75<br>(No.34724244) |
| 2022           | 21:03         | - | 21:08       |         | 51.2  | 100. 90003)                    | (NO.34/24244)               |
| 10 N           | 1:13          | - | 1:18        |         | 46.2  | CVAN 071 (C:-1                 | Rion NC-75                  |
| 2022           | 10 Nov 3:03   | - | 3:08        | Fine    | 45.8  | SVAN 971 (Serial<br>No. 96063) | (No.34724244)               |
| 2022           | 5:18          | - | 5:23        |         | 44.2  | 100. 90003)                    | (110.34724244)              |
| 14 Nov<br>2022 | 13:21         | - | 13:51       | Sunny   | 60.4  | SVAN 971 (Serial<br>No. 96062) | Rion NC-75<br>(No.34724244) |
| 14 New         | 19:16         | - | 19:21       |         | 48.6  | CVAN 071 (Comic)               | Rion NC-75                  |
| 14 Nov<br>2022 | 20:01         | - | 20:06       | Fine    | 48.4  | SVAN 971 (Serial No. 96062)    | (No.34724244)               |
| 2022           | 21:26         | - | 21:31       |         | 46.8  | NO. 90002)                     | (1NO.34/24244)              |
| 15 N           | 1:11          | - | 1:16        |         | 44.9  | CVAN 071 (C:-1                 | D: NC 75                    |
| 15 Nov<br>2022 | 3:16          | - | 3:21        | Fine    | 45.3  | SVAN 971 (Serial<br>No. 96062) | Rion NC-75<br>(No.34724244) |
| 2022           | 5:16          | - | 5:21        |         | 44.9  | No. 90002)                     | (10.34/24244)               |
| 21 Nov<br>2022 | 12:56         | - | 13:26       | Fine    | 58.3  | SVAN 971 (Serial<br>No. 96062) | Rion NC-75<br>(No.34724244) |
| 21 N           | 19:11         | - | 19:16       |         | 51.3  | CVAN 071 (C:-1                 | D: NC 75                    |
| 21 Nov         | 20:11         | - | 20:16       | Fine    | 48.6  | SVAN 971 (Serial<br>No. 96062) | Rion NC-75                  |
| 2022           | 21:11         | - | 21:16       |         | 49.5  |                                | (No.34724244)               |
| 22 Nov         | 1:16          | - | 1:21        |         | 44.1  | CVAN 071 (Cani-1               | Rion NC-75                  |
| 22 Nov<br>2022 | 3:06          | - | 3:11        | Fine    | 45.1  | SVAN 971 (Serial               | (No.34724244)               |
| 2022           | 5:06          | - | 5:11        |         | 46.5  | No. 96062)                     | (110.34/24244)              |

| Date           | Start<br>time |   | End<br>time | Weather | $\begin{array}{c} L_{eq~30min}dB(A)/\\ L_{eq~5min}dB(A) \end{array}$ | Sound Level<br>Meter Used      | Calibrator<br>Used          |
|----------------|---------------|---|-------------|---------|--|--------------------------------|-----------------------------|
| 28 Nov<br>2022 | 13:22         | - | 13:52       | Sunny   | 63.4   | SVAN 971 (Serial<br>No. 96062) | Rion NC-75<br>(No.34724244) |
| 20 N           | 19:12         | - | 19:17       | Fine    | 47.6   | CVAN 071 (C:-1                 | D: NC 75                    |
| 28 Nov<br>2022 | 20:17         | - | 20:22       |         | 42.5   | SVAN 971 (Serial               | Rion NC-75<br>(No.34724244) |
| 2022           | 21:22         | - | 21:27       |         | 42.9   | No. 96062)                     |                             |
| 20 N           | 1:02          | - | 1:07        |         | 43.3   | CVAN 071 (C:-1                 | D: NC 75                    |
| 29 Nov<br>2022 | 3:07          | - | 3:12        | Fine    | 44.8   | SVAN 971 (Serial               | Rion NC-75<br>(No.34724244) |
| 2022           | 5:12          | - | 5:17        |         | 44.6   | No. 96062)                     | (NO.34/24244)               |

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 /

N\_S1)

Monitoring date: 05, 12, 19, 29 December 2022 (Daytime)

05&06, 12&13, 19&20, 29&30 December 2022 (Evening & Night time)

Parameter :  $L_{eq 30min}$  (Daytime),  $L_{eq 5min}$  (Evening & Night time)

Noise source other than construction activities from

the Project:

Nil

| Date           | Start<br>time |   | End<br>time | Weather | $\begin{array}{c} L_{eq~30min}dB(A)/\\ L_{eq~5min}dB(A) \end{array}$ | Sound Level<br>Meter Used       | Calibrator<br>Used          |
|----------------|---------------|---|-------------|---------|--|---------------------------------|-----------------------------|
| 05 Dec<br>2022 | 13:42         | - | 14:12       | Sunny   | 58.9   | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 05.0           | 19:02         | - | 19:07       |         | 47.5   | CMANI 071 (C - :: -1            | D: NC 75                    |
| 05 Dec<br>2022 | 20:17         | - | 20:22       | Fine    | 45.7   | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 2022           | 21:37         | - | 21:42       |         | 43.7   | No. 90002)                      | (10.54/24244)               |
| 06 Dec         | 1:27          | - | 1:32        |         | 40.4   | CVAN 071 (Comic)                | Rion NC-75                  |
| 2022           | 3:17          | - | 3:22        | Fine    | 40.0   | SVAN 971 (Serial<br>No. 96062)  | (No.34724244)               |
| 2022           | 5:22          | - | 5:27        |         | 41.0   | 100. 90002)                     | (110.34/24244)              |
| 12 Dec<br>2022 | 12:56         | - | 13:26       | Fine    | 65.5   | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 12 Dec         | 19:16         | - | 19:21       |         | 43.9   | CVAN 071 (Coriol                | Rion NC-75                  |
| 2022           | 20:21         | - | 20:26       | Fine    | Fine 41.6  | `                               | (No.34724244)               |
| 2022           | 21:21         | - | 21:26       |         | 42.5   | 140. 90002)                     | (110.34724244)              |
| 13 Dec         | 1:06          | - | 1:11        | Fine    | 40.2   | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 3:11          | - | 3:16        |         | 39.8   | No. 96062)                      | (No.34724244)               |
| 2022           | 5:11          | - | 5:16        |         | 42.1   | 140. 70002)                     | (110.54724244)              |
| 19 Dec<br>2022 | 13:01         | - | 13:31       | Sunny   | 58.6   | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 10 D           | 19:21         | - | 19:26       |         | 47.0   | GMANIOZI (C. 1                  | D: NO.75                    |
| 19 Dec<br>2022 | 20:16         | - | 20:21       | Fine    | 44.5   | SVAN 971 (Serial                | Rion NC-75<br>(No.34724244) |
| 2022           | 21:16         | - | 21:21       |         | 46.1   | No. 96062)                      | (10.54/24244)               |
| 20 Dec         | 1:02          | - | 1:07        |         | 43.2   | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 3:21          | - | 3:26        | Fine    | 42.1   | No. 96062)                      | (No.34724244)               |
| 2022           | 5:21          | - | 5:26        |         | 42.6   | 140. 90002)                     | (110.54724244)              |
| 29 Dec<br>2022 | 13:20         | - | 13:50       | Sunny   | 59.5   | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724243) |
| 29 Dec         | 19:05         | - | 19:10       |         | 46.0   | CVAN 071 (Comic)                | Rion NC-75                  |
| 29 Dec<br>2022 | 20:15         | - | 20:20       | Fine    | 44.5   | SVAN 971 (Serial<br>No. 103482) |                             |
| 2022           | 21:20         | - | 21:25       |         | 43.7   | 100, 100464)                    | (No.34724243)               |
| 30 Dec         | 1:20          | - | 1:25        |         | 43.4   | SVAN 971 (Serial                | Rion NC-75<br>(No.34724243) |
|                | 3:10          | - | 3:15        | Fine    | 42.8   | No. 103482)                     |                             |
| /11//          | 5:20          | - | 5:25        |         | 44.6   | 110. 103402)                    | (110.34/24243)              |

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 /

N\_S2)

Monitoring date: 06, 11, 21, 27 October 2022 (Daytime)

06&07, 11&12, 21&22, 27&28 October 2022 (Evening & Night time)

Parameter:  $L_{eq 30min}$  (Daytime),  $L_{eq 5min}$  (Evening & Night time)

Noise source other than construction activities from

the Project:

Nil

| Date           | Start<br>time |   | End<br>time | Weather | $\begin{array}{c} L_{eq \; 30min}  dB(A) \; / \\ L_{eq \; 5min}  dB(A) \end{array}$ | Sound Level<br>Meter Used       | Calibrator<br>Used          |
|----------------|---------------|---|-------------|---------|---|---------------------------------|-----------------------------|
| 06 Oct<br>2022 | 13:32         | - | 14:02       | Sunny   | 62.0  | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 06.0-4         | 19:02         | - | 19:07       |         | 52.7  | CVAN 071 (C:-1                  | D: NG 55                    |
| 06 Oct<br>2022 | 20:17         | - | 20:22       | Fine    | 52.4  | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 2022           | 21:12         | - | 21:17       |         | 50.9  | No. 90002)                      | (10.54/24244)               |
| 07 Oct         | 1:07          | 1 | 1:12        |         | 54.8  | CVAN 071 (Comic)                | Rion NC-75                  |
| 2022           | 3:07          | 1 | 3:12        | Fine    | 55.4  | SVAN 971 (Serial<br>No. 96062)  | (No.34724244)               |
| 2022           | 5:07          | 1 | 5:12        |         | 54.5  | No. 90002)                      | (10.54/24244)               |
| 11 Oct<br>2022 | 14:04         | 1 | 14:34       | Sunny   | 60.2  | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 11 Oct         | 19:09         | - | 19:14       |         | 50.1  | CVAN 071 (Cariol                | Rion NC-75                  |
| 2022           | 20:29         | 1 | 20:34       | Fine    | 48.9  |                                 | (No.34724244)               |
| 2022           | 21:14         | 1 | 21:19       |         | 50.8  | NO. 103462)                     | (NO.34724244)               |
| 12 Oct         | 1:14          | 1 | 1:19        | Fine    | 46.2  | CVAN 071 (Comic)                | Rion NC-75                  |
| 2022           | 3:09          | - | 3:14        |         | 46.5  | SVAN 971 (Serial<br>No. 103482) | (No.34724244)               |
| 2022           | 5:19          | - | 5:24        |         | 50.3  | NO. 105462)                     | (10.54/24244)               |
| 21 Oct<br>2022 | 13:40         | - | 14:10       | Sunny   | 57.9  | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 21.0           | 19:05         | - | 19:10       |         | 51.9  | CVANIOTI (C. 11                 | D: NO 75                    |
| 21 Oct<br>2022 | 20:05         | - | 20:10       | Fine    | 50.7  | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 21:05         | - | 21:10       |         | 53.4  | No. 103482)                     | (No.34724244)               |
| 22 Oct         | 1:15          | - | 1:20        |         | 46.1  | CVAN 071 (C:-1                  | Rion NC-75                  |
| 2022           | 3:10          | - | 3:15        | Fine    | 47.2  | SVAN 971 (Serial<br>No. 103482) | (No.34724244)               |
| 2022           | 5:10          | - | 5:15        |         | 44.1  | NO. 105462)                     | (10.54724244)               |
| 27 Oct<br>2022 | 13:30         | - | 14:00       | Sunny   | 61.2  | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 27.0-4         | 19:10         | - | 19:15       |         | 46.2  | CVAN 071 (C:-1                  | D: NC 75                    |
| 27 Oct<br>2022 | 20:10         | - | 20:15       | Fine    | 49.3  | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 2022           | 21:10         | _ | 21:15       |         | 48.9  |                                 | (110.34/24244)              |
| 29 Oat         | 1:05          | ı | 1:10        |         | 48.1  | CVAN 071 (Cari-1                | Diam NC 75                  |
| 28 Oct<br>2022 | 3:10          | - | 3:15        | Fine    | 50.8  | SVAN 971 (Serial<br>No. 96062)  | Rion NC-75<br>(No.34724244) |
| 2022           | 5:20          | - | 5:25        |         | 49.9  | 110. 90002)                     | (110.34/24244)              |

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 /

N\_S2)

Nil

Monitoring date: 04, 09, 14, 21, 28 November 2022 (Daytime)

04&05, 09&10, 14&15, 21&22, 28&29 November 2022 (Evening &

Night time)

Parameter :  $L_{eq 30min}$  (Daytime),  $L_{eq 5min}$  (Evening & Night time)

Noise source other than construction activities from

the Project:

| Date           | Start<br>time |                | End<br>time | Weather | $\begin{array}{c} L_{eq \ 30min} \ dB(A) \ / \\ L_{eq \ 5min} \ dB(A) \end{array}$ | Sound Level<br>Meter Used       | Calibrator<br>Used          |
|----------------|---------------|----------------|-------------|---------|--|---------------------------------|-----------------------------|
| 04 Nov<br>2022 | 13:20         | -              | 13:50       | Sunny   | 58.1   | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 04 Nov         | 19:10         | -              | 19:15       |         | 54.2   | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 20:45         | -              | 20:50       | Fine    | 54.9   | No. 103482)                     | (No.34724244)               |
| 2022           | 21:20         | -              | 21:25       |         | 55.9   | NO. 103462)                     | (110.34724244)              |
| 05 Nov         | 1:25          | -              | 1:30        |         | 54.8   | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 3:25          | -              | 3:30        | Fine    | 51.7   | No. 103482)                     | (No.34724244)               |
| 2022           | 5:15          | -              | 5:20        |         | 47.9   | NO. 105462)                     | (110.34724244)              |
| 09 Nov<br>2022 | 13:30         | -              | 14:00       | Fine    | 57.8   | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 09 Nov         | 19:05         | -              | 19:10       |         | 48.5   | CVAN 071 (C:-1                  | Rion NC-75                  |
| 2022           | 20:05         | -              | 20:10       | Fine    | 47.4   | · ·                             | (No.34724244)               |
| 2022           | 21:05         | -              | 21:10       |         | 47.8   | NO. 105462)                     | (N0.34/24244)               |
| 10 N           | 1:10          | -              | 1:15        |         | 45.3   | CVAN 071 (Carial                | Rion NC-75                  |
| 10 Nov<br>2022 | 3:10          | 3:10 - 3:15 Fi | Fine        | 45.0    | SVAN 971 (Serial<br>No. 103482)  | (No.34724244)                   |                             |
| 2022           | 5:15          | -              | 5:20        | ]       | 46.1   | No. 103482)                     | (110.54/24244)              |
| 14 Nov<br>2022 | 13:37         | -              | 14:07       | Sunny   | 60.9   | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 1.4 NI         | 19:17         | -              | 19:22       |         | 45.3   | CMANIOZI (C. 1                  | D: NO 75                    |
| 14 Nov<br>2022 | 20:07         | -              | 20:12       | Fine    | 42.8   | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 21:27         | -              | 21:32       | ]       | 41.6   | No. 103482)                     | (No.34724244)               |
| 1.5 NI         | 1:12          | -              | 1:17        |         | 42.7   | GMAN 071 (C : 1                 | D: NO 75                    |
| 15 Nov<br>2022 | 3:07          | -              | 3:12        | Fine    | 41.6   | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 5:22          | -              | 5:27        | ]       | 38.1   | No. 103482)                     | (No.34724244)               |
| 21 Nov<br>2022 | 13:03         | -              | 13:33       | Fine    | 58.7   | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 01 N           | 19:13         | -              | 19:18       |         | 57.7   | CVANIOTI (C. 11                 | D: NO.75                    |
| 21 Nov         | 20:08         | -              | 20:13       | Fine    | 55.6   | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 21:18         | -              | 21:23       |         | 59.0   | No. 103482)                     | (No.34724244)               |
| 22 Nor-        | 1:18          | -              | 1:23        |         | 51.7   | CVAN 071 (Cari-1                | Diam NC 75                  |
| 22 Nov         | 3:13          | -              | 3:18        | Fine    | 51.0   | SVAN 971 (Serial<br>No. 103482) | Rion NC-75                  |
| 2022 5:13      | 5:13          | -              | 5:18        |         | 48.2   | 110. 103464)                    | (No.34724244)               |

| Date           | Start<br>time |   | End<br>time | Weather | $\begin{array}{c} L_{eq~30min}dB(A)/\\ L_{eq~5min}dB(A) \end{array}$ | Sound Level<br>Meter Used       | Calibrator<br>Used          |
|----------------|---------------|---|-------------|---------|--|---------------------------------|-----------------------------|
| 28 Nov<br>2022 | 13:34         | - | 14:04       | Sunny   | 62.5   | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 20 N           | 19:14         | - | 19:19       | Fine    | 50.3   | CVAN 071 (C:-1                  | D: NC 75                    |
| 28 Nov         | 20:09         | - | 20:14       |         | 49.3   | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 2022           | 21:14         | - | 21:19       |         | 49.7   |                                 |                             |
| 20 Nov         | 1:04          | - | 1:09        |         | 47.9   | CVAN 071 (Comic)                | Dian NC 75                  |
| 29 Nov<br>2022 | 3:09          | - | 3:14        | Fine    | 47.3   | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 2022           | 5:14          | - | 5:19        |         | 47.5   | NO. 105462)                     | (110.34/24244)              |

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 /

N\_S2)

Nil

Monitoring date: 05, 12, 19, 29 December 2022 (Daytime)

05&06, 12&13, 19&20, 29&30 December 2022 (Evening & Night time)

Parameter:  $L_{eq 30min}$  (Daytime),  $L_{eq 5min}$  (Evening & Night time)

Noise source other than construction activities from

the Project:

Project:

| Date           | Start<br>time |   | End<br>time | Weather | $\begin{array}{c} L_{eq \; 30min}  dB(A) \; / \\ L_{eq \; 5min}  dB(A) \end{array}$ | Sound Level<br>Meter Used       | Calibrator<br>Used          |
|----------------|---------------|---|-------------|---------|---|---------------------------------|-----------------------------|
| 05 Dec<br>2022 | 13:40         | - | 14:10       | Sunny   | 57.6  | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 05 D           | 19:25         | - | 19:30       |         | 49.2  | CMAN 071 (C:-1                  | D: NG 55                    |
| 05 Dec<br>2022 | 20:05         | - | 20:10       | Fine    | 48.8  | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 2022           | 21:15         | - | 21:20       |         | 48.5  | NO. 105462)                     | (10.54724244)               |
| 06 Dec         | 1:10          | - | 1:15        |         | 48.9  | CVAN 071 (Carial                | Rion NC-75                  |
| 2022           | 3:15          | - | 3:20        | Fine    | 45.1  | SVAN 971 (Serial<br>No. 103482) | (No.34724244)               |
| 2022           | 5:10          | - | 5:15        |         | 46.5  | NO. 105462)                     | (10.54724244)               |
| 12 Dec<br>2022 | 12:34         | - | 13:04       | Fine    | 56.8  | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 12 Dec         | 19:09         | - | 19:14       |         | 52.9  | CVAN 071 (Comic)                | Rion NC-75                  |
| 2022           | 20:14         | - | 20:19       | Fine    | 55.3  | `                               | (No.34724244)               |
| 2022           | 21:19         | - | 21:24       |         | 53.9  | NO. 103462)                     | (NO.34/24244)               |
| 13 Dec         | 1:14          | - | 1:19        |         | 50.2  | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 3:04          | - | 3:09        | Fine    | 47.7  | No. 103482)                     | (No.34724244)               |
| 2022           | 5:24          | - | 5:29        |         | 54.7  | NO. 105462)                     | (10.54724244)               |
| 19 Dec<br>2022 | 13:10         | - | 13:40       | Sunny   | 56.0  | SVAN 971 (Serial<br>No. 103482) | Rion NC-75<br>(No.34724244) |
| 10 D           | 19:20         | - | 19:25       |         | 47.4  | CVANIOTI (C. 11                 |                             |
| 19 Dec         | 20:15         | - | 20:20       | Fine    | 46.6  | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 21:15         | - | 21:20       |         | 47.7  | No. 103482)                     | (No.34724244)               |
| 20 D           | 1:05          | - | 1:10        |         | 52.4  | CVAN 071 (C : 1                 | D: NO 75                    |
| 20 Dec<br>2022 | 3:25          | - | 3:30        | Fine    | 49.9  | SVAN 971 (Serial                | Rion NC-75                  |
| 2022           | 5:20          | - | 5:25        |         | 48.0  | No. 103482)                     | (No.34724244)               |
| 29 Dec<br>2022 | 13:11         | - | 13:41       | Sunny   | 52.8  | SVAN 971 (Serial<br>No. 96063)  | Rion NC-75<br>(No.34724243) |
| 20 Dag         | 19:16         | - | 19:21       |         | 47.6  | CVAN 071 (Carial                | Dian NC 75                  |
| 29 Dec<br>2022 | 20:16         | - | 20:21       | Fine    | 49.0  | SVAN 971 (Serial<br>No. 96063)  | Rion NC-75<br>(No.34724243) |
| 2022           | 21:16         | _ | 21:21       |         | 49.1  |                                 | (110.34/24243)              |
| 30 Dec         | 1:06          | - | 1:11        |         | 58.4  | CVAN 071 (Comic)                | Dion NC 75                  |
| 2022           | 3:06          | - | 3:11        | Fine    | 53.4  | SVAN 971 (Serial No. 96063)     | Rion NC-75<br>(No.34724243) |
| 2022           | 5:11          | - | 5:16        |         | 52.7  | 140. 70003)                     | (110.3+124243)              |

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 /

N\_S3)

Monitoring date: 06, 11, 21, 27 October 2022 (Daytime)

06&07, 11&12, 21&22, 27&28 October 2022 (Evening & Night time)

 $Parameter: \qquad \qquad L_{eq\;30min}\left(Daytime\right), L_{eq\;5min}\left(Evening\;\&\;Night\;time\right)$ 

Noise source other than construction activities from

Air-conditioner

the Project:

| Date           | Start<br>time |   | End<br>time | Weather   | $\begin{array}{c} L_{eq~30min}dB(A)/\\ L_{eq~5min}dB(A) \end{array}$ | Sound Level<br>Meter Used      | Calibrator<br>Used          |
|----------------|---------------|---|-------------|-----------|--|--------------------------------|-----------------------------|
| 06 Oct<br>2022 | 13:24         | i | 13:54       | Sunny     | 60.5   | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| 06 Oct         | 19:09         | - | 19:14       |           | 46.2   | CVAN 071 (C:-1                 | D: NG 75                    |
| 2022           | 20:04         | - | 20:09       | Fine 49.6 | SVAN 971 (Serial No. 96063)  | Rion NC-75<br>(No.34724244)    |                             |
| 2022           | 21:04         | 1 | 21:09       |           | 55.6   | 100. 90003)                    | (10.54/24244)               |
| 07 Oct         | 1:19          | 1 | 1:24        |           | 49.0   | CVAN 071 (Comic)               | Rion NC-75                  |
| 2022           | 3:14          | - | 3:19        | Fine      | 48.1   | SVAN 971 (Serial No. 96063)    | (No.34724244)               |
| 2022           | 5:04          | - | 5:09        |           | 44.5   | 10.90003)                      | (110.34/24244)              |
| 11 Oct<br>2022 | 14:03         | - | 14:33       | Sunny     | 60.6   | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| 11 Oct         | 19:03         | - | 19:08       |           | 49.7   | CVAN 071 (Comic)               | Dian NC 75                  |
| 11 Oct<br>2022 | 20:08         | - | 20:13       | Fine      | 43.6   | SVAN 971 (Serial               | Rion NC-75<br>(No.34724244) |
| 2022           | 21:13         | - | 21:18       |           | 42.9   | No. 96063)                     |                             |
| 12 Oct         | 1:03          | - | 1:08        | Fine      | 47.4   | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 3:23          | 1 | 3:28        |           | 46.3   | No. 96063)                     | (No.34724244)               |
| 2022           | 5:28          | 1 | 5:33        |           | 44.5   | 100. 90003)                    | (110.34/24244)              |
| 21 Oct<br>2022 | 13:33         | - | 14:03       | Sunny     | 60.6   | SVAN 971 (Serial<br>No. 96062) | Rion NC-75<br>(No.34724244) |
| 21.0.4         | 19:08         | - | 19:13       |           | 60.0   | CVANIOTI (C. 1                 | D: NG 75                    |
| 21 Oct<br>2022 | 20:33         | - | 20:38       | Fine      | 61.9   | SVAN 971 (Serial               | Rion NC-75<br>(No.34724244) |
| 2022           | 21:18         | - | 21:23       |           | 53.1   | No. 96062)                     | (10.54/24244)               |
| 22 Oct         | 1:18          | - | 1:23        |           | 41.9   | CVAN 071 (C:-1                 | Rion NC-75                  |
| 2022           | 3:08          | - | 3:13        | Fine      | 50.9   | SVAN 971 (Serial<br>No. 96062) | (No.34724244)               |
| 2022           | 5:13          | - | 5:18        |           | 43.2   | 100. 90002)                    | (110.34/24244)              |
| 27 Oct<br>2022 | 13:25         | 1 | 13:55       | Sunny     | 60.0   | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| 27 Oct         | 19:15         | - | 19:20       |           | 55.1   | CVAN 071 (Comic)               | Rion NC-75                  |
| 27 Oct<br>2022 | 20:25         | - | 20:30       | Fine      | 58.0   | SVAN 971 (Serial               | (No.34724244)               |
| 2022           | 21:20         | - | 21:25       |           | 47.0   | No. 96063)                     | (110.34/24244)              |
| 28 Oct         | 1:15          | ı | 1:20        |           | 45.9   | SVAN 071 (Social               | Rion NC-75                  |
| 2022           | 3:15          | - | 3:20        | Fine      | 47.9   | `                              | (No.34724244)               |
| 2022           | 5:30          | - | 5:35        |           | 49.9   | 110. 30003)                    | (110.34/24244)              |

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 /

N\_S3)

Monitoring date: 04, 09, 14, 21, 28 November 2022 (Daytime)

04&05, 09&10, 14&15, 21&22, 28&29 November 2022 (Evening &

Night time)

Parameter :  $L_{eq 30min}$  (Daytime),  $L_{eq 5min}$  (Evening & Night time)

Noise source other than construction activities from

Air-conditioner

the Project:

| Date           | Start<br>time |   | End<br>time | Weather           | $\begin{array}{c} L_{eq \; 30min}  dB(A) \; / \\ L_{eq \; 5min}  dB(A) \end{array}$ | Sound Level<br>Meter Used      | Calibrator<br>Used          |
|----------------|---------------|---|-------------|-------------------|---|--------------------------------|-----------------------------|
| 04 Nov<br>2022 | 13:07         | - | 13:37       | Sunny             | 57.1  | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| 04.01          | 19:07         | - | 19:37       |                   | 49.5  | GV/AN 071 (C ' 1               | D: NC 75                    |
| 04 Nov<br>2022 | 20:22         | - | 20:52       | Fine              | 52.2  | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 21:02         | - | 21:32       | ]                 | 51.8  | No. 96063)                     | (No.34724244)               |
| 05 N           | 1:12          | - | 1:42        |                   | 51.9  | GV/AN 071 (C ' 1               | D: NO 75                    |
| 05 Nov         | 3:07          | - | 3:37        | Fine              | 52.5  | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 5:12          | - | 5:42        |                   | 47.3  | No. 96063)                     | (No.34724244)               |
| 09 Nov<br>2022 | 13:16         | - | 13:46       | Fine              | 56.8  | SVAN 971 (Serial<br>No. 96062) | Rion NC-75<br>(No.34724244) |
| 00 N           | 19:01         | - | 19:31       |                   | 46.4  | CVAN 071 (C:-1                 | Rion NC-75                  |
| 09 Nov<br>2022 | 20:21         | - | 20:51       | Fine              | 50.2  | SVAN 971 (Serial No. 96062)    |                             |
| 2022           | 21:21         | - | 21:51       | ]                 | 58.6  | No. 90002)                     | (No.34724244)               |
| 10 N           | 1:06          | - | 1:36        |                   | 44.5  | GV/AN 071 (C ' 1               | Rion NC-75<br>(No.34724244) |
| 10 Nov         | 3:11          | - | 3:41        | Fine 41.5<br>44.8 | 41.5  | SVAN 971 (Serial<br>No. 96062) |                             |
| 2022           | 5:11          | - | 5:41        |                   | 110. 70004)   | (110.54724244)                 |                             |
| 14 Nov<br>2022 | 13:34         | - | 14:04       | Sunny             | 55.5  | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| 14.37          | 19:19         | - | 19:49       |                   | 44.0  | CVANIOTI (C. 11                | D: MC 75                    |
| 14 Nov         | 20:04         | - | 20:34       | Fine              | 43.1  | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 21:24         | - | 21:54       | ]                 | 43.2  | No. 96063)                     | (No.34724244)               |
| 1.5 N          | 1:14          | - | 1:44        |                   | 42.7  | CVANIOTI (C. 11                | D: NO 75                    |
| 15 Nov         | 3:09          | - | 3:39        | Fine              | 40.1  | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 5:19          | - | 5:49        |                   | 41.8  | No. 96063)                     | (No.34724244)               |
| 21 Nov<br>2022 | 13:01         | - | 13:31       | Fine              | 55.9  | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| 24.37          | 19:11         | - | 19:41       |                   | 55.6  | GYYANY OFFI (G. 1.1            | D: 370 55                   |
| 21 Nov         | 20:11         | - | 20:41       | Fine              | 53.9  | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 21:11         | - | 21:41       |                   | 55.4  | No. 96063)                     | (No.34724244)               |
| 22 N           | 1:16          | - | 1:46        |                   | 48.9  | GY/ANI 071 (C : 1              | D: NG 75                    |
| 22 Nov         | 3:16          | - | 3:46        | Fine              | 48.2  | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 5:16          | - | 5:46        |                   | 52.2  | No. 96063)                     | (No.34724244)               |
| 28 Nov<br>2022 | 13:17         | - | 13:47       | Sunny             | 62.3  | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |

| Date           | Start<br>time |   | End<br>time | Weather | $\begin{array}{c} L_{eq~30min}dB(A)/\\ L_{eq~5min}dB(A) \end{array}$ | Sound Level<br>Meter Used | Calibrator<br>Used          |
|----------------|---------------|---|-------------|---------|--|---------------------------|-----------------------------|
| 20 Nov         | 19:17         | - | 19:47       |         | 42.1   | SVAN 971 (Serial          | Dian NC 75                  |
| 28 Nov<br>2022 | 20:12         | - | 20:42       | Fine    | 49.7   | No. 96063)                | Rion NC-75<br>(No.34724244) |
| 2022           | 21:17         | - | 21:47       |         | 52.6   | 10. 90003)                | (110.34/24244)              |
| 29 Nov         | 1:12          | - | 1:42        |         | 53.6   | SVAN 971 (Serial          | Rion NC-75                  |
| 29 Nov         | 3:12          | - | 3:42        | Fine    | 54.4   | No. 96063)                | (No.34724244)               |
| 2022           | 5:17          | - | 5:47        |         | 41.2   | 110. 90003)               | (110.54/24244)              |

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 /

N\_S3)

Monitoring date: 05, 12, 19, 29 December 2022 (Daytime)

05&06, 12&13, 19&20, 29&30 December 2022 (Evening & Night time)

 $Parameter: \qquad \qquad L_{eq\;30min}\left(Daytime\right), L_{eq\;5min}\left(Evening\;\&\;Night\;time\right)$ 

Noise source other than construction activities from

Air-conditioner

the Project:

| Date           | Start<br>time |   | End<br>time | Weather | $\begin{array}{c} L_{eq~30min}dB(A)/\\ L_{eq~5min}dB(A) \end{array}$ | Sound Level<br>Meter Used      | Calibrator<br>Used          |
|----------------|---------------|---|-------------|---------|--|--------------------------------|-----------------------------|
| 05 Dec<br>2022 | 13:37         | - | 14:07       | Sunny   | 59.0   | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| 05 Dec         | 19:17         | - | 19:22       |         | 46.2   | CVANIO71 (Comic)               | Rion NC-75                  |
| 2022           | 20:17         | - | 20:22       | Fine    | 45.5   | SVAN 971 (Serial No. 96063)    | (No.34724244)               |
| 2022           | 21:22         | - | 21:27       |         | 45.7   | 100. 90003)                    | (110.54/24244)              |
| 06 Dec         | 1:22          | - | 1:27        |         | 40.4   | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 3:12          | - | 3:17        | Fine    | 40.2   | No. 96063)                     | (No.34724244)               |
| 2022           | 5:22          | - | 5:27        |         | 41.2   | 140. 90003)                    | (110.34724244)              |
| 12 Dec<br>2022 | 12:58         | - | 13:28       | Fine    | 68.1   | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| 12 Dec         | 19:18         | - | 19:23       |         | 44.3   | CVAN 071 (Coriol               | Rion NC-75                  |
| 2022           | 20:18         | - | 20:23       | Fine    | 44.1   | SVAN 971 (Serial No. 96063)    | (No.34724244)               |
| 2022           | 21:13         | - | 21:18       |         | 45.8   | 100. 90003)                    | (110.54/24244)              |
| 13 Dec         | 1:13          | - | 1:18        |         | 41.7   | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 3:18          | - | 3:23        | Fine    | 42.1   | No. 96063)                     | (No.34724244)               |
| 2022           | 5:18          | - | 5:23        |         | 45.7   | 140. 90003)                    | (110.34724244)              |
| 19 Dec<br>2022 | 12:58         | - | 13:58       | Sunny   | 57.7   | SVAN 971 (Serial<br>No. 96063) | Rion NC-75<br>(No.34724244) |
| 10 D           | 19:18         | - | 19:23       |         | 46.5   | GMANI 071 (C ' 1               | D: NC 75                    |
| 19 Dec         | 20:18         | - | 20:18       | Fine    | 46.0   | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 21:13         | - | 21:28       |         | 46.2   | No. 96063)                     | (No.34724244)               |
| 20 D           | 1:13          | - | 1:18        |         | 48.5   | CVANIOTI (C. 11                | D' NO 75                    |
| 20 Dec<br>2022 | 3:18          | - | 3:33        | Fine    | 48.8   | SVAN 971 (Serial               | Rion NC-75<br>(No.34724244) |
| 2022           | 5:18          | - | 5:23        |         | 49.5   | No. 96063)                     | (NO.34/24244)               |
| 29 Dec<br>2022 | 13:21         | - | 13:51       | Sunny   | 62.4   | SVAN 971 (Serial<br>No. 96062) | Rion NC-75<br>(No.34724243) |
| 20 D           | 19:16         | - | 19:21       |         | 43.8   | CVAN 071 (C:-1                 | D: NC 75                    |
| 29 Dec<br>2022 | 20:21         | - | 20:26       | Fine    | 42.7   | SVAN 971 (Serial<br>No. 96062) | Rion NC-75<br>(No.34724243) |
| 2022           | 21:21         | - | 21:26       |         | 42.9   | 110. 90002)                    | (110.54/24243)              |
| 30 Dec         | 1:06          | - | 1:11        |         | 43.5   | SVAN 971 (Serial               | Rion NC-75                  |
| 2022           | 3:11          | - | 3:16        | Fine    | 42.6   | No. 96062)                     | (No.34724243)               |
| 2022           | 5:11          | - | 5:16        |         | 45.8   | 110. 30002)                    | (110.54/24243)              |

| Contract No. EP/SP/66<br>Integrated Waste Mana | /12<br>gement Facilities, Phase 1 | Keppel Seghers – Zhen Hua Joint Venture |
|--|-----------------------------------|---|
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
| Appendix E                                     | Waste Flow Table                  |   |
|  |                                   |   |
|  |                                   |   |





#### **Monthly Summary Waste Flow Table for** 2018 (year)

| Project: In | ntegrated W                    | aste Manag  | gement Faci              | lities, Phas             | se 1                                       |                                 |  | Contract No.: EP/SP/66/12                   |   |   |                                |             |            |  |
|-------------|--------------------------------|---|--------------------------|--------------------------|--|---------------------------------|--|---|---|---|--------------------------------|-------------|------------|--|
|             |                                | Actual  | Quantities of            | Inert C&D                | Materials Ger                              | nerated Mon                     | thly                                   |   | Actual Quantities of C&D Wastes Generated Monthly |   |                                |             |            |  |
| Month       | Total<br>Quantity<br>Generated | Hard Rock<br>and Large<br>Broken<br>Concrete<br>(see Note<br>1) | Reused in the Contract   | Reused in other Projects | Disposed as<br>Public Fill<br>(see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported<br>Fill<br>Rock<br>(see Note<br>4) | Metals<br>(see Note<br>5)                         | Paper/<br>cardboard<br>packaging<br>(see Note<br>5) | Plastics<br>(see Note 2,<br>5) | Chemica     | l Waste    | Others, e.g. general<br>refuse<br>(see Note 3) |
|             | (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> )                   | (1                              | in ,000m <sup>3</sup> )                | ı   | (in ,000 kg)                                      | (in ,000kg)   | (in ,000kg)                    | (in ,000kg) | (in ,000L) | (in ,000 m <sup>3</sup> )                      |
| Jan         | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| Feb         | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| Mar         | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| Apr         | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| May         | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| Jun         | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| Sub-total   | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| Jul         | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| Aug         | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0.0065   |
| Sep         | 0                              | 0   | 0                        | 0                        | 0  | 2.9619                          | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| Oct         | 0                              | 0   | 0                        | 0                        | 0  | 3.0771                          | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0.0130   |
| Nov         | 0                              | 0   | 0                        | 0                        | 0  | 6.7871                          | 0                                      | 0   | 0   | 0   | 0                              | 0           | 0          | 0  |
| Dec         | 0                              | 0   | 0                        | 0                        | 0  | 59.0709                         | 0                                      | 0   | 0   | 0   | 0                              | 0.2000      | 0.8700     | 0  |
| Total       | 0                              | 0   | 0                        | 0                        | 0  | 71.8970                         | 0                                      | 0   | 0   | 0   | 0                              | 0.2000      | 0.8700     | 0.0195   |

- Broken concrete for recycling into aggregates.
- Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
- Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5m<sup>3</sup> by volume.
- Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$
- Materials recycled.





Contract No.: EP/SP/66/12

# Monthly Summary Waste Flow Table for 2019 (year)

Project: Integrated Waste Management Facilities, Phase 1

| r roject . n | negrated w                     | asic Manag  | gement raci              | mues, i nas              | SC 1                                       |                                 |  | Contract No.: EF/SF/00/12       |   |   |                                |             |            |  |
|--------------|--------------------------------|---|--------------------------|--------------------------|--|---------------------------------|--|---------------------------------|---|---|--------------------------------|-------------|------------|--|
|              |                                | Actual  | Quantities of            | Inert C&D                | Materials Ge                               | nerated Mor                     | nthly                                  |                                 | Actual Quantities of C&D Wastes Generated Monthly |   |                                |             |            |  |
| Month        | Total<br>Quantity<br>Generated | Hard Rock<br>and Large<br>Broken<br>Concrete<br>(see Note<br>1) |                          | Reused in other Projects | Disposed as<br>Public Fill<br>(see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported Fill Rock (see Note 4) | Metals<br>(see Note<br>5)                         | Paper/<br>cardboard<br>packaging<br>(see Note<br>5) | Plastics<br>(see Note 2,<br>5) | Chemica     | l Waste    | Others, e.g. general<br>refuse<br>(see Note 3) |
|              | (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> )                   | (                               | $(in,000m^3)$                          | T                               | (in ,000 kg)                                      | (in ,000kg)   | (in ,000kg)                    | (in ,000kg) | (in ,000L) | $(in ,000 m^3)$                                |
| Jan          | 0                              | 0   | 0                        | 0                        | 0  | 82.6139                         | 0                                      | 0                               | 0   | 0   | 0                              | 0           | 0          | 0.0065   |
| Feb          | 0                              | 0   | 0                        | 0                        | 0  | 46.7821                         | 0                                      | 0                               | 0   | 0   | 0                              | 0           | 0          | 0  |
| Mar          | 0                              | 0   | 0                        | 0                        | 0  | 97.1000                         | 0                                      | 0.7552                          | 0   | 0.2560  | 0                              | 0           | 0          | 0  |
| Apr          | 0                              | 0   | 0                        | 0                        | 0  | 58.0413                         | 0                                      | 0                               | 0   | 0   | 0                              | 0           | 0          | 0  |
| May          | 0                              | 0   | 0                        | 0                        | 0  | 14.5625                         | 0                                      | 1.4648                          | 0   | 0   | 0                              | 0           | 0          | 0.0065   |
| Jun          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 6.8421                          | 0   | 0   | 0                              | 0           | 0          | 0  |
| Sub-total    | 0                              | 0   | 0                        | 0                        | 0  | 299.0998                        | 0                                      | 9.0621                          | 0   | 0.2560  | 0                              | 0           | 0          | 0.0130   |
| Jul          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 0.4289                          | 0   | 0   | 0                              | 0           | 8.4000     | 0.0130   |
| Aug          | 0                              | 0   | 0                        | 0                        | 0  | 2.5775                          | 0                                      | 10.5600                         | 0   | 0   | 0                              | 0           | 0          | 0  |
| Sep          | 0                              | 0   | 0                        | 0                        | 0  | 6.1081                          | 0                                      | 8.4704                          | 0   | 0.3530  | 0                              | 0           | 0          | 0.0065   |
| Oct          | 0                              | 0   | 0                        | 0                        | 0  | 9.8875                          | 0                                      | 7.1900                          | 0   | 0   | 0                              | 0           | 0          | 0  |
| Nov          | 0                              | 0   | 0                        | 0                        | 0  | 38.3088                         | 0                                      | 19.3105                         | 0   | 0   | 0                              | 0           | 0          | 0.0195   |
| Dec          | 0                              | 0   | 0                        | 0                        | 0  | 54.3469                         | 0                                      | 26.9807                         | 0   | 0   | 0                              | 0           | 0          | 0.0910   |
| Total        | 0                              | 0   | 0                        | 0                        | 0  | 410.3286                        | 0                                      | 82.0026                         | 0   | 0.6090  | 0                              | 0           | 8.4000     | 0.1430   |

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
- (3) Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5m<sup>3</sup> by volume.
- Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$
- (5) Materials recycled.





#### **Monthly Summary Waste Flow Table for** 2020 (year)

| Project : In | ntegrated W                    | aste Manag  | gement Faci                  | lities, Phas             | se 1                                       |                                 |  |                                 | Contract No.: EP/SP/66/12                         |   |                                |             |            |  |
|--------------|--------------------------------|---|------------------------------|--------------------------|--|---------------------------------|--|---------------------------------|---|---|--------------------------------|-------------|------------|--|
|              |                                | Actual  | Quantities of                | Inert C&D                | Materials Ger                              | nerated Mon                     | thly                                   |                                 | Actual Quantities of C&D Wastes Generated Monthly |   |                                |             |            |  |
| Month        | Total<br>Quantity<br>Generated | Hard Rock<br>and Large<br>Broken<br>Concrete<br>(see Note<br>1) | Reused in<br>the<br>Contract | Reused in other Projects | Disposed as<br>Public Fill<br>(see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported Fill Rock (see Note 4) | Metals<br>(see Note<br>5)                         | Paper/<br>cardboard<br>packaging<br>(see Note<br>5) | Plastics<br>(see Note 2,<br>5) | Chemica     | l Waste    | Others, e.g. general<br>refuse<br>(see Note 3) |
|              | (in ,000m <sup>3</sup> )       | $(in ,000m^3)$  | (in ,000m <sup>3</sup> )     | (in ,000m <sup>3</sup>   | (in ,000m <sup>3</sup> )                   | (                               | in ,000m <sup>3</sup> )                | Т                               | (in ,000 kg)                                      | (in ,000kg)   | (in ,000kg)                    | (in ,000kg) | (in ,000L) | $(in,000 \text{ m}^3)$                         |
| Jan          | 0                              | 0   | 0                            | 0                        | 0  | 37.1550                         | 0                                      | 25.0812                         | 0   | 0   | 0                              | 0           | 0          | 0.0065   |
| Feb          | 0                              | 0   | 0                            | 0                        | 0  | 27.7910                         | 0                                      | 18.8300                         | 0   | 0   | 0                              | 0           | 0          | 0.0065   |
| Mar          | 0                              | 0   | 0                            | 0                        | 0  | 22.5669                         | 0                                      | 26.1586                         | 0   | 0   | 0                              | 0           | 7.2000     | 0.0065   |
| Apr          | 0                              | 0   | 0                            | 0                        | 0  | 12.7800                         | 0                                      | 10.1825                         | 0   | 0   | 0                              | 0           | 0          | 0.0195   |
| May          | 0                              | 0   | 0                            | 0                        | 0  | 16.1138                         | 0                                      | 24.3740                         | 0   | 0.4220  | 0                              | 0           | 0          | 0.0195   |
| Jun          | 0                              | 0   | 0                            | 0                        | 0  | 31.5177                         | 0                                      | 28.3030                         | 0   | 0   | 0                              | 0           | 0          | 0.0065   |
| Sub-total    | 0                              | 0   | 0                            | 0                        | 0  | 147.9244                        | 0                                      | 132.9293                        | 0   | 0.4220  | 0                              | 0           | 7.2000     | 0.0650   |
| Jul          | 0                              | 0   | 0                            | 0                        | 0  | 34.7856                         | 17.0606                                | 35.1800                         | 0   | 0   | 0                              | 0           | 0          | 0.0195   |
| Aug          | 0                              | 0   | 0                            | 0                        | 0  | 27.1375                         | 65.5667                                | 27.9335                         | 0   | 0   | 0                              | 0           | 0          | 0  |
| Sep          | 0                              | 0   | 0                            | 0                        | 0  | 11.9813                         | 110.1328                               | 43.5435                         | 0   | 0   | 0                              | 0           | 0          | 0.0195   |
| Oct          | 0                              | 0   | 0                            | 0                        | 0  | 2.8213                          | 131.6600                               | 22.5415                         | 0   | 0   | 0                              | 0           | 0          | 0.0130   |
| Nov          | 0                              | 0   | 0                            | 0                        | 0  | 0                               | 162.1811                               | 44.6475                         | 0   | 0.4090  | 0                              | 0           | 0.4000     | 0.0130   |
| Dec          | 0                              | 0   | 0                            | 0                        | 0  | 0                               | 174.9800                               | 57.8380                         | 0   | 0   | 0                              | 0           | 0          | 0.0130   |
| Total        | 0                              | 0   | 0                            | 0                        | 0  | 224.6501                        | 661.5812                               | 364.6133                        | 0   | 0.8310  | 0                              | 0           | 7.6000     | 0.1430   |

- Broken concrete for recycling into aggregates. (1)
- Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)
- Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5m<sup>3</sup> by volume.
- Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$
- Materials recycled.





# Monthly Summary Waste Flow Table for 2021 (year)

Project: Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12

| Project : Ii | ntegrated W                    | aste Manag  | gement Faci              | llities, Phas            | se I                                       |                                 |  |   | Contract No.: EP/SP/66/12                         |   |                                |             |            |  |
|--------------|--------------------------------|---|--------------------------|--------------------------|--|---------------------------------|--|---|---|---|--------------------------------|-------------|------------|--|
|              |                                | Actual  | Quantities of            | of Inert C&D             | Materials G                                | enerated Mo                     | nthly                                  |   | Actual Quantities of C&D Wastes Generated Monthly |   |                                |             |            |  |
| Month        | Total<br>Quantity<br>Generated | Hard Rock<br>and Large<br>Broken<br>Concrete<br>(see Note<br>1) |                          | Reused in other Projects | Disposed as<br>Public Fill<br>(see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported<br>Fill<br>Rock<br>(see Note<br>4) | Metals<br>(see Note<br>5)                         | Paper/<br>cardboard<br>packaging<br>(see Note<br>5) | Plastics<br>(see Note 2,<br>5) | Chemica     | l Waste    | Others, e.g. general<br>refuse<br>(see Note 3) |
|              | (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> )                   |                                 | $(in,000m^3)$                          | T   | (in ,000 kg)                                      | (in ,000kg)   | (in ,000kg)                    | (in ,000kg) | (in ,000L) | (in ,000 m <sup>3</sup> )                      |
| Jan          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 198.1311                               | 36.4775                                     | 0   | 0   | 0                              | 0           | 0          | 0.0065   |
| Feb          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 143.9511                               | 20.9960                                     | 0   | 0   | 0                              | 0           | 0          | 0.6305   |
| Mar          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 103.1833                               | 23.4510                                     | 0   | 0   | 0                              | 0           | 0          | 0.0130   |
| Apr          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 161.2956                               | 27.2810                                     | 0   | 0   | 0                              | 0           | 0          | 0.0130   |
| May          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 193.3300                               | 20.5265                                     | 0   | 0   | 0                              | 0           | 0          | 0.0715   |
| Jun          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 141.5728                               | 23.7825                                     | 0   | 0.2440  | 0                              | 0           | 0          | 0.0455   |
| Sub-total    | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 941.4639                               | 152.5145                                    | 0   | 0.2440  | 0                              | 0           | 0          | 0.7800   |
| Jul          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 105.1083                               | 30.6065                                     | 0   | 0   | 0                              | 0           | 0          | 0.0195   |
| Aug          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 11.1822                                | 7.5180                                      | 0   | 0   | 0                              | 0           | 0          | 0.0130   |
| Sep          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 5.7575                                      | 0   | 0   | 0                              | 0           | 0.6000     | 0.0390   |
| Oct          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 6.8885                                      | 0   | 0   | 0                              | 0           | 0          | 0  |
| Nov          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 6.2975                                      | 0   | 0.1610  | 0                              | 0           | 0          | 0.0130   |
| Dec          | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 0                                      | 5.9235                                      | 0   | 0   | 0                              | 0           | 0          | 0  |
| Total        | 0                              | 0   | 0                        | 0                        | 0  | 0                               | 1057.7544                              | 215.5060                                    | 0   | 0.4050  | 0                              | 0           | 0.6000     | 0.8645   |

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
- Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5m<sup>3</sup> by volume.
- Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$ .
- (5) Materials recycled.





(year)

#### **Monthly Summary Waste Flow Table for** 2022

| Project : In | ntegrated W                    | aste Manag  | gement Faci                  | lities, Phas                          | se 1                                       |                                 |  |                                 | Contract No.: EP/SP/66/12                         |   |                                |             |            |  |
|--------------|--------------------------------|---|------------------------------|---------------------------------------|--|---------------------------------|--|---------------------------------|---|---|--------------------------------|-------------|------------|--|
|              |                                | Actual  | Quantities of                | of Inert C&I                          | Materials G                                | enerated Mo                     | nthly                                  |                                 | Actual Quantities of C&D Wastes Generated Monthly |   |                                |             |            | onthly   |
| Month        | Total<br>Quantity<br>Generated | Hard Rock<br>and Large<br>Broken<br>Concrete<br>(see Note<br>1) | Reused in<br>the<br>Contract | Reused in other Projects (see Note 4) | Disposed as<br>Public Fill<br>(see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported Fill Rock (see Note 4) | Metals<br>(see Note<br>5)                         | Paper/<br>cardboard<br>packaging<br>(see Note<br>5) | Plastics<br>(see Note 2,<br>5) | Chemica     | l Waste    | Others, e.g. general<br>refuse<br>(see Note 3) |
|              | (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> )               | ı                               | (in ,000 kg)                                      | (in ,000kg)   | (in ,000kg)                    | (in ,000kg) | (in ,000L) | $(in,000 \text{ m}^3)$                         |
| Jan          | 0                              | 0   | 0                            | 0                                     | 0  | 0                               | 4.9389                                 | 2.7070                          | 0   | 0.1550  | 0                              | 0           | 0          | 0.0715   |
| Feb          | 0                              | 0   | 0                            | 0                                     | 0  | 0                               | 3.2478                                 | 4.0290                          | 0   | 0   | 0                              | 0.4000      | 0.2250     | 0  |
| Mar          | 0                              | 0   | 0                            | 0                                     | 0  | 0                               | 2.3422                                 | 2.7820                          | 0   | 0   | 0                              | 0           | 0          | 0.0780   |
| Apr          | 0                              | 0   | 0                            | 0                                     | 0  | 0                               | 18.2189                                | 5.8100                          | 0   | 0.3120  | 0                              | 0           | 0          | 0.1495   |
| May          | 0.0648                         | 0   | 0                            | 0                                     | 0.0648                                     | 0                               | 16.7711                                | 17.2320                         | 0   | 0   | 0                              | 0           | 0          | 0.0975   |
| Jun          | 0.0037                         | 0   | 0                            | 0                                     | 0.0037                                     | 0.2115                          | 1.1128                                 | 14.1470                         | 36.3000   | 0.3890  | 0                              | 0           | 1.7250     | 0.0975   |
| Sub-total    | 0.0685                         | 0   | 0                            | 0                                     | 0.0685                                     | 0.2115                          | 46.6317                                | 46.7070                         | 36.3000   | 0.8560  | 0                              | 0.4000      | 1.9500     | 0.4940   |
| Jul          | 25.7183                        | 0   | 0                            | 25.7183                               | 0  | 0.1125                          | 0.8333                                 | 17.5210                         | 0   | 0.6400  | 0.0060                         | 0           | 0          | 0.1235   |
| Aug          | 13.2494                        | 0   | 0                            | 13.2494                               | 0  | 0                               | 0                                      | 24.5210                         | 76.0300   | 1.8870  | 0                              | 0           | 0          | 0.1170   |
| Sep          | 24.9072                        | 0   | 0                            | 24.8494                               | 0.0578                                     | 0                               | 0                                      | 16.2815                         | 72.0600   | 0.3060  | 0                              | 0           | 0          | 0.1885   |
| Oct          | 13.3139                        | 0   | 0                            | 13.3006                               | 0.0133                                     | 0                               | 0                                      | 11.8665                         | 78.1000   | 0.5800  | 0                              | 0           | 0          | 0.2405   |
| Nov          | 26.5583                        | 0   | 0                            | 26.5583                               | 0  | 0                               | 0                                      | 7.2055                          | 0   | 0   | 0                              | 0           | 0          | 0.1105   |
| Dec          | 29.1411                        | 0   | 0                            | 29.1411                               | 0  | 0                               | 0                                      | 3.5174                          | 0   | 0   | 0                              | 0           | 0          | 0.2535   |
| Total        | 132.9567                       | 0   | 0                            | 132.8171                              | 0.1396                                     | 0.3240                          | 47.4650                                | 127.6199                        | 262.4900  | 4.2690  | 0.0060                         | 0.4000      | 1.9500     | 1.5275   |

- Broken concrete for recycling into aggregates. (1)
- Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)
- Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5m<sup>3</sup> by volume.
- Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$ .
- Materials recycled. (5)

| Contract No. EP/SP/66/<br>Integrated Waste Mana | /12<br>gement Facilities, Phase 1 | Keppel Seghers – 2 | Zhen Hua Joint Venture |
|---|-----------------------------------|--------------------|------------------------|
|   |                                   |                    |                        |
|   |                                   |                    |                        |
|   |                                   |                    |                        |
| Appendix F                                      | Photo Records for Cora            | al Monitoring      |                        |
|   |                                   |                    |                        |
|   |                                   |                    |                        |

# Photo Plate for Tagged and Re-tagged Corals at Control Site during the 16<sup>th</sup> Quarterly Coral Monitoring during Construction Phase on 29 December 2022

| Tag # | Baseline (26 June 2018 & 3 December 2018) | 29 December 2022         |
|-------|---|--------------------------|
| #1    | Goniopora stutchburyi                     | Goniopora stutchburyi    |
| #2R   | Goniopora stutchburyi                     | Goniopora stutchburyi    |
| #3    | Psammocora superficialis                  | Psammocora superficialis |
| #4    | Turbinaria peltata                        | Turbinaria peltata       |

| Tag # | Baseline                         | 29 December 2022      |
|-------|----------------------------------|-----------------------|
| 145 " | (26 June 2018 & 3 December 2018) | 2) Beecinoer 2022     |
| #5R   | Goniopora stutchburyi            | Goniopora stutchburyi |
|       |                                  |                       |
| #6    | Combactness squailis             |                       |
|       | Cyphastrea serailia              | Cyphastrea serailia   |
| #7R   | O7                               |                       |
|       | Coscinaraea sp.                  | Coscinaraea sp.       |
| #8    | (08)                             |                       |
|       | Goniopora stutchburyi            | Goniopora stutchburyi |
| #9    | 9                                |                       |

| Tag # | Baseline (26 June 2018 & 3 December 2018) | 29 December 2022      |
|-------|---|-----------------------|
|       | Goniopora stutchburyi                     | Goniopora stutchburyi |
| #10R  | Goniopora stutchburyi                     | Goniopora stutchburyi |

## Notes:

i. The re-tagged corals were marked as #R.

# Photo Plate for Re-tagged Corals at Indirect Impact during the 16<sup>th</sup> Quarterly Coral Monitoring during Construction Phase on 29 December 2022

| #11R  #12R  #13R  (23 November 2018)  29 December 2022  (23 November 2018)  Cyphastrea serailia  Cyphastrea serailia  Favites chinensis  Favites chinensis  Favites chinensis  Turbinaria peltata  Turbinaria peltata | Baseline (23 November 2018)  29 December 202 |    | Baseline               | 20 D 1 2022  |
|---|--|----|------------------------|--|
| #12R  #13R  #13R  Cyphastrea serailia  Cyphastrea serailia  Favites chinensis  Favites chinensis  Favites chinensis   |  |    | g # (23 November 2018) | 29 December 2022   |
| #13R  #13R  |  | 1R |                        | Cyphastrea serailia  |
| #13R  #13R  |  |    |                        | Control of the Contro |
| #13R  #13R  |  | 2R |                        |  |
| Turbinaria peltata  |  |    | Favites chinensis      | Favites chinensis  |
|   |  | 3R |                        | Turbinaria peltata   |
| #14R  Favites chinensis  Favites chinensis  |  | 4R |                        |  |

| Tag # | Baseline (23 November 2018) | 29 December 2022         |
|-------|-----------------------------|--------------------------|
| #15R  | Goniopora stutchburyi       | Goniopora stutchburyi    |
| #16R  | Psammocora superficialis    | Psammocora superficialis |
| #17R  | Favites chinensis           | Favites chinensis        |
| #18R  | Psammocora superficialis    | Psammocora superficialis |
| #19R  | Psammocora superficialis    | Psammocora superficialis |

| Tag # | Baseline (23 November 2018) | 29 December 2022         |
|-------|-----------------------------|--------------------------|
| #20R  | Psammocora superficialis    | Psammocora superficialis |

Notes:

i. The re-tagged corals were marked as #R.

| Contract No. EP/SP/66/<br>Integrated Waste Manag | gement Facilities, Phase 1 | Keppel Seghers – Zhen Hua Joint Venture |
|--|----------------------------|---|
| Appendix G                                       | Photo Records for Marine N | Mammal Monitoring                       |

Photo records of Vessel-based Line-Transect Survey Effort during the reporting period Line-transect survey during October 2022:



# Line-transect survey during November 2022: NB\_20221110\_111756\_0004\_MED

NB\_20221110\_111757\_0007\_MED





NB\_20221110\_111757\_0009\_MED

NB\_20221110\_111947\_0027\_MED







Line-transect survey during December 2022:



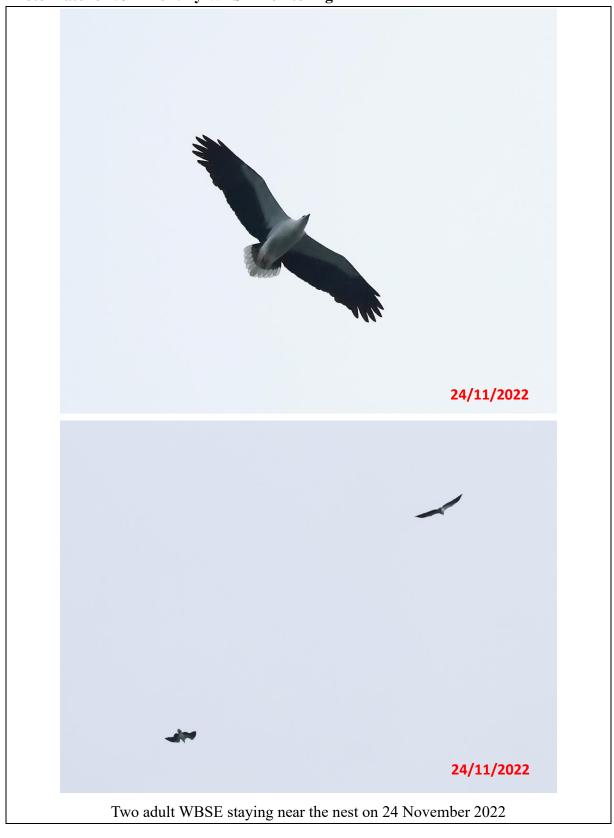
| Contract No. EP/SP/66. Integrated Waste Mana | /12<br>gement Facilities, Phase 1       | Keppel Seghers – Zhen Hua Joint Venture |
|--|---|---|
|  |   |   |
|  |   |   |
|  |   |   |
| Appendix H                                   | Photo Records for White-b<br>Monitoring | ellied Sea Eagle                        |
|  |   |   |

# Photo Plate for 52<sup>nd</sup> Monthly WBSE monitoring



One adult WBSE staying near the nest on 27 October 2022

Photo Plate for 53<sup>rd</sup> Monthly WBSE monitoring



# Photo Plate for 54th Monthly WBSE monitoring



One adult female WBSE staying in nest for incubation on 29 December 2022



One adult male WBSE recorded near the nest area on 29 December 2022

| Contract No. EP/SP/66<br>Integrated Waste Mana | /12<br>gement Facilities, Phase 1 | Keppel Seghers – Zhen Hua Joint Venture |
|--|-----------------------------------|---|
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
| A managadis, I                                 | Cananlaint Lag                    |   |
| Appendix I                                     | Complaint Log                     |   |
|  |                                   |   |

Statistical Summary of Environmental Complaints

| Reporting                  | Env       | vironmental Complaint Statis | Complaint Statistics |  |
|----------------------------|-----------|------------------------------|----------------------|--|
| Period                     | Frequency | Cumulative                   | Complaint Nature     |  |
| 1 Oct 2022-<br>31 Oct 2022 | 0         | 1                            | N/A                  |  |
| 1 Nov 2022-<br>30 Nov 2022 | 0         | 1                            | N/A                  |  |
| 1 Dec 2022-<br>31 Dec 2022 | 0         | 1                            | N/A                  |  |

Statistical Summary of Environmental Summons

| Reporting                  | En        | Environmental Summons Statistics |         |  |
|----------------------------|-----------|----------------------------------|---------|--|
| Period                     | Frequency | Cumulative                       | Details |  |
| 1 Oct 2022-<br>31 Oct 2022 | 0         | 0                                | N/A     |  |
| 1 Nov 2022-<br>30 Nov 2022 | 0         | 0                                | N/A     |  |
| 1 Dec 2022-<br>31 Dec 2022 | 0         | 0                                | N/A     |  |

Statistical Summary of Environmental Prosecution

| Reporting                  | Environmental Prosecution Statistics |            |         |  |
|----------------------------|--------------------------------------|------------|---------|--|
| Period                     | Frequency                            | Cumulative | Details |  |
| 1 Oct 2022-<br>31 Oct 2022 | 0                                    | 0          | N/A     |  |
| 1 Nov 2022-<br>30 Nov 2022 | (1)                                  | 0          | N/A     |  |
| 1 Dec 2022-<br>31 Dec 2022 | 0                                    | 0          | N/A     |  |