

JOB NO.: TCS01062/19

EPD CONTRACT NO. EP/SP/86/15 ORGANIC WASTE TREATMENT FACILITIES PHASE 2

QUARTERLY ENVIRONMENTAL MONITORING AND AUDIT (EM&A) SUMMARY REPORT

(DECEMBER 2023 TO FEBRUARY 2024)

PREPARED FOR AJA JOINT VENTURE

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 15 March 2024
 TCS01062/19/600/R0363v3
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| Version | Date | Remarks |
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| 1 | 14 March 2024 | First Submission |
| 2 | 15 March 2024 | Amended as per IEC's comments |
| 3 | 15 March 2024 | Amended as per IEC's comments |
| | | |



EXECUTIVE SUMMARY

ES01 This is the 17th Quarterly Environmental Monitoring and Audit (EM&A) Summary Report for the Service Contract to summarized environmental monitoring results and inspection findings during the period from 1 December 2023 to 29 February 2024 (hereinafter 'the Reporting Period').

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES02 Environmental monitoring activities under the EM&A program in this Reporting Period are summarized in the following table.

Table ES-1Summary of Environmental Monitoring Activities Undertaken in the
Reporting Period

| Issues | Environmental Monitoring Parameters / Inspection | Sessions |
|---|--|----------|
| Construction Noise | Leq (30min) Daytime | 56 |
| Construction Noise during Restricted Hours | Leq (5min) during restricted hours 19:00-07:00 including public holidays and Sundays | 96 |
| Inspection / Audit | ET Regular Environmental Site Inspection | 13 |

BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES03 No construction noise monitoring exceedance was recorded in this Reporting Period. The statistics of environmental exceedance and investigation of exceedance are summarized in the following table.

 Table ES-2
 Summary of Environmental Monitoring Parameter Exceedance in the Reporting Period

| Environmental | Monitoring Action | | Limit | Event & Action | |
|---------------|--|-------|-------|------------------------------|---------------------------|
| Issues | Parameters | Level | Level | Investigation Results | Corrective Actions |
| Construction | Leq _{30min} Daytime | 0 | 0 | NA | NA |
| Noise | Leq _{5min} Restricted hour | 0 | 0 | NA | NA |

SITE INSPECTION

ES04 During the Reporting Period, weekly joint site inspections were undertaken to evaluate the site environmental performance. No non-compliances were observed during the weekly site inspection and environmental audit of the Reporting Period. Minor deficiencies found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

ENVIRONMENTAL COMPLAINT

ES05 No environmental complaint was recorded in this Reporting Period for the Project. The statistics of environmental complaint are summarized in the following table.

 Table ES-3
 Summary of Environmental Complaint Records in the Reporting Period

| Demonstra a Devia d | Enviror | Related with the | | |
|----------------------|-----------|------------------|-------------------------|----------------|
| Reporting Period | Frequency | Cumulative | Complaint Nature | Works Contract |
| 1 – 31 December 2023 | 0 | 7 | NA | NA |
| 1 – 31 January 2024 | 0 | 7 | NA | NA |
| 1 – 29 February 2024 | 0 | 7 | NA | NA |

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES06 No environmental summons or prosecutions was received in this Reporting Period for the Project. The statistics of environmental summons or prosecutions are summarized in the following tables.



Table ES-4 Summary of Environmental Summons Records in the Reporting Period

| Dononting Doniod | Environ | Related with the | | |
|-------------------------|-----------|------------------|-------------------------|----------------|
| Reporting Period | Frequency | Cumulative | Complaint Nature | Works Contract |
| 1 – 31 December 2023 | 0 | 0 | NA | NA |
| 1 – 31 January 2024 | 0 | 0 | NA | NA |
| 1 – 29 February 2024 | 0 | 0 | NA | NA |

Table ES-5 Summary of Environmental Prosecutions Records in the Reporting Period

| Domonting Donied | Environ | Related with the | | |
|----------------------|-----------|------------------|-------------------------|----------------|
| Reporting Period | Frequency | Cumulative | Complaint Nature | Works Contract |
| 1 – 31 December 2023 | 0 | 0 | NA | NA |
| 1 – 31 January 2024 | 0 | 0 | NA | NA |
| 1 – 29 February 2024 | 0 | 0 | NA | NA |

REPORTING CHANGE

ES07 No reporting change was made in this Reporting Period.

FUTURE KEY ISSUES

- ES08 Construction noise would be a key environmental issue during construction work of the Project. Noise mitigation measures such as using quiet plants should be implemented in accordance with the EM&A requirement.
- ES09 In addition, all effluent discharge from the construction site shall fulfill the discharge licence stipulation.



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1. INTRODUCTION

1.1 PROJECT BACKGROUND

- 1.1.1 Environmental Protection Department (hereinafter referred as "EPD") is the Project Proponent for the Project "Organic Waste Treatment Facilities Phase 2" (hereinafter referred as "the Project"). The Project is a Designated Project to be implemented under Environmental Permit No. EP-460/2013 (hereinafter referred as "the EP"). The major construction work of the Project included:
 - (i) Demolition and removal of the existing above ground structures of the Sha Ling Livestock Waste Composting Plant (SLCP);
 - (ii) Construction of superstructure for an administration building and enclosed waste reception area;
 - (iii) Installation of treatment facilities including waste pre-treatment equipment, digesters, biogas holding tanks, composting, wastewater treatment, air treatment systems; and
 - (iv) Facilities for biogas processing, utilization and transmission;
- 1.1.2 AJA Joint Venture (hereinafter referred as "AJAJV") has been awarded the *EPD Contract No. EP/SP/86/15* "Organic Waste Treatment Facilities Phase 2". In accordance with the Works Contract requirements, AJAJV shall take over the responsibility of the EP. Based on the requirement, Further Environmental Permit application was submitted by AJAJV to EPD on 10 September 2019 and granted on 2 October 2019. A variation of Further Environmental Permit was submitted on 21 August 2020 and granted on 14 September 2020. The Further Environmental Permit is named as FEP-01/460/2013/A.
- 1.1.3 According to the approved Environmental Monitoring and Audit Manual (hereinafter referred as "the EM&A Manual"), AJAJV employed Action-United Environmental Services & Consulting (hereinafter referred as "AUES") as Environmental Team (hereinafter referred as "ET") to implement monitoring programme and as well as the associated duties.
- 1.1.4 According to the EM&A Manual, construction noise was identified as the only key environmental issue during the construction phase of the Project and it is required to carry out construction noise monitoring throughout the construction phase. Furthermore, baseline noise monitoring as part of the EM&A programmes shall be conducted prior to the commencement of the construction works under the Project. Thus, baseline noise monitoring was conducted by ET from 25 September 2019 to 8 October 2019. The baseline monitoring report compiled by the ET was verified by Independent Environmental Checker (hereinafter the "IEC") and was submitted to EPD on 19th November 2019 for endorsement.
- 1.1.5 This is the 17th Quarterly EM&A Summary Report for the Service Contract to summarized monitoring results and inspection findings during the period from 1 December 2023 to 29 February 2024 (hereinafter 'the Reporting Period').

1.2 REPORT STRUCTURE

1.2.1 The Monthly Environmental Monitoring and Audit (EM&A) Report is structured into the following sections:-

| Section 1 | Introduction |
|-----------|--|
| Section 2 | Project Organization and Construction Progress |
| Section 3 | Summary of Impact Monitoring Requirements |
| Section 4 | Construction Noise Monitoring |
| Section 5 | Waste Management |
| Section 6 | Site Inspections |
| Section 7 | Environmental Complaints and Non-Compliance |
| Section 8 | Implementation Status of Mitigation Measures |
| Section 9 | Conclusions and Recommendations |



2. PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

2.1 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

2.1.1 Organization structure and contact details of relevant parties with respect to on-site environmental management are shown in *Appendix B*. Details of responsibilities of respective parties can be referred to EM&A Monthly Report.

2.2 CONSTRUCTION PROGRESS

2.2.1 3-month rolling construction program of the Project is enclosed in *Appendix D*; and the major construction activities undertaken in the Reporting Period is presented as below:

December 2023

- Granulation Building
 - ABWF works
 - E&M work at Granulation Hall and underground water tanks
- Admin Building
 - ABWF works & E&M work
- Reception Building
 - ABWF works & E&M work
- AD Tanks
 - Coating work for AD1 and AD2
 - Concrete screeding work for AD4
- Pump House External ABWF Works

January 2024

- Granulation Building
 - ABWF works
 - E&M work at Granulation Hall and underground water tanks
- Admin Building
 - ABWF works & E&M work
- Reception Building
 - ABWF works & E&M work
- AD Tanks
 - Coating work for AD1 and AD2
 - Concrete screeding work for AD4
- Pump House External ABWF Works

February 2024

- Granulation Building
 - ABWF works
 - E&M work at Granulation Hall and underground water tanks
- Admin Building
 - ABWF works and E&M work
- Reception Building
 - ABWF works and E&M work
- AD Tanks
 - Air leakage test for AD1
 - Concrete screeding work for AD2
 - T&C and E&M works for AD3
- Pump House External ABWF Work



2.3 SUMMARY OF ENVIRONMENTAL SUBMISSIONS

2.3.1 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contract 1 are presented in *Tables 2-1*.

| | | L | | t Status |
|------|--|---|-----------------------------|--------------------------------------|
| Item | Description | Permit no./ | Valid Perio | od |
| | Description | account no./ Ref. no. | From 1 | Status |
| 1 | Notification pursuant to AirpollutionControl(ConstructionDust)Regulation | Application No. 448863 | 9 Sep N 2019 | A Valid |
| 2 | Chemical Waste Producer Registration | Ref. No. 5211-641-A295 7-01 | 9 Oct N 2019 | A Valid |
| 3 | Water Pollution Control Ordinance - Discharge License | Application No. 448913 | | - Application made on 10 Sep 2019 |
| 4 | Waste Disposal Regulation - Billing Account for Disposal of Construction Waste | Account No. 7035307 | 2 Oct N 2019 | A Valid |
| 5 | Further Environmental Permit | FEP-01/460/201 3/A | 14 Sep N 2020 | A Valid |
| 6 | Construction Noise Permit | GW-RN1043-23 | 6 Oct 5 2023 202 | FebCancel on 29 Dec242023 |
| | | GW-RN1370-23 | 29 Dec 28 2023 Ma 202 | |
| 7 | Waste Water Discharge License | WT00036396-2 019 | 2031MarMa2020202 | |

Table 2-1Status of Environmental Licenses and Permits of the Project



3. SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.1 GENERAL

3.1.1 According to Environmental Monitoring and Audit requirements set out in the Approved EM&A manual, construction noise was identified as the only key environmental issues during the construction phase of the Project.

3.2 MONITORING PARAMETERS

3.2.1 The construction noise monitoring requirement stated in the approved EM&A Manual is summarized in *Table 3-1*.

| Environmental Issue | Parameters | | |
|----------------------------|---|--|--|
| Noise | Leq(30min) in normal working days (Monday to Saturday) 07:00-19:00 except public holiday Supplementary information for data auditing, statistical results such as L₁₀ and L₉₀ shall also be obtained for reference Leq(5min) if construction works are extended to restricted hours 19:00-07:00 including public holidays and Sundays | | |

Table 3-1Summary of EM&A Requirements

3.3 MONITORING LOCATIONS

3.3.1 According to the EM&A Manual Section 4.2.3, four (4) designated noise sensitive receivers (NSR) were recommended as construction noise monitoring stations. Since two of the designated monitoring locations N2 and N3 were found not accessible, alternative monitoring locations N2a and N3a were therefore proposed for the noise monitoring and were approved by EPD on 1 June 2021. Details of the locations for construction noise monitoring in the Reporting Period is listed in *Table 3-2* and showed in *Appendix C*.

| | 1 8 | |
|-----|---------------------------------|--|
| ID | Location | |
| N1 | Village House No. 308, Sha Ling | |
| N2a | Village House No. 318, Sha Ling | |
| N3a | Village House No. 261, Sha Ling | |
| N4 | Village House in Sha Ling | |

 Table 3-2
 Impact Monitoring Stations – Construction Noise

3.4 MONITORING FREQUENCY AND PERIOD

- 3.4.1 Noise monitoring shall be conducted at the all available designated monitoring stations or alternative locations. The monitoring frequency shall depend on scale of the construction activities. According to EM&A manual, regular noise monitoring should be carried out once a week when noise generating activities are underway and the monitoring requirement is presented below:
 - one set of Leq_(30min) measurements between 07:00 and 19:00 hours on normal weekdays
- 3.4.2 If construction works are extended to restricted hours 19:00-07:00 in normal working days (Monday to Saturday), and 00:00-24:00 during public holidays including Sunday, additional weekly impact monitoring should be carried out during the respective restricted hour periods. Leq_(5min) measurements should be employed during the restricted hours.

3.5 MONITORING EQUIPMENT

3.5.1 Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in ms⁻¹.



3.6 ACTION/LIMIT (A/L) LEVELS

3.6.1 Action and Limit levels for construction noise as stipulated in the approved Environmental Monitoring and Audit Manual are listed in *Tables 3-3*.

| Monitoring Location | Action Level | Limit Level in dB(A) | | |
|----------------------------|------------------------------------|---|--|--|
| Time Period: | 0700-1900 hours on normal weekdays | | | |
| N1 | | | | |
| N2a | When one or more documented | | | |
| N3a | complaints are received | 75 dB(A) | | |
| N4 | | | | |
| lime period. | | ormal working days (Monday to Saturday), and during public holidays including Sunday | | |
| N1 | | | | |
| N2a | When one or more documented | | | |
| N3a | complaints are received | 60 dB(A) | | |
| N4 | | | | |

Table 3-3Action and Limit Levels for Construction Noise

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



4. CONSTRUCTION NOISE MONITORING

4.1 GENERAL

4.1.1 In the Reporting Period, construction noise monitoring was performed at monitoring location N1, N2a, N3a and N4.

4.2 **RESULTS OF NOISE MONITORING**

4.2.1 In the Reporting Period, a total of 56 sessions of daytime construction noise monitoring and 96 sessions of additional weekly noise monitoring during restricted hours were performed at the agreed monitoring locations in the reporting period. The daytime noise monitoring results and additional weekly noise monitoring results during restricted hours are summarized in *Table 4-1* and *Table 4-2*, respectively. The graphical plots of construction noise monitoring result are shown in *Appendix E*.

Table 4-1Summary of Construction Noise Monitoring Results

| Monitoring | Leq, 30r | nin (dB((A)) |
|--------------------|-----------|--------------|
| Location | Min | Max |
| N1 | 53.0 | 69.5 |
| Record Date | 4-Jan-24 | 19-Dec-23 |
| N2a | 47.6 | 66.2 |
| Record Date | 29-Dec-23 | 16-Jan-24 |
| N3a | 51.2 | 72.8 |
| Record Date | 14-Feb-24 | 26-Feb-24 |
| N4 | 52.5 | 69.8 |
| Record Date | 22-Jan-24 | 19-Dec-23 |

Table 4-2Summary of Additional Noise Monitoring Results during Restricted Hours

| Monitoring | Leq, 5mir | n (dB((A)) |
|--------------------|--------------------|------------|
| Location | Min | Max |
| N1 | 45.6 | 59.5 |
| Record Date | 4-Feb-24, 5-Feb-24 | 31-Dec-23 |
| N2a | 43.6 | 59.7 |
| Record Date | 14-Feb-24 | 25-Feb-24 |
| N3a | 45.7 | 59.8 |
| Record Date | 19-Feb-24 | 21-Jan-24 |
| N4 | 45.5 | 59.2 |
| Record Date | 19-Feb-24 | 19-Dec-23 |

- 4.2.2 As shown in *Table 4-1*, all the measured results during normal daytime were below 75 dB(A) of the acceptance criteria. In addition, all the measured results during restricted hours shown in *Table 4-2* were below 60 dB(A) of the acceptance criteria as set out in Technical Memorandum on Noise from Construction Work other than Percussive Piling. No adverse weather condition which may affect the monitoring result was encountered during the course of noise monitoring in the reporting period.
- 4.2.3 No documented noise complaint is received in the reporting period. Hence no construction noise monitoring action level exceedance was recorded.
- 4.2.4 Summary of A/L Level exceedance of construction noise and statistical analysis of compliance for construction noise monitoring results are summarized in *Table 4-3*.

 Table 4-3
 Summaries of Construction Noise Action/Limit Level Exceedance

| Station | Limit Level | Action Level | Received Date |
|---------|-------------|--------------|---------------|
| N1 | 0 | | |
| N2a | 0 | 0 | NT A |
| N3a | 0 | 0 | NA |
| N4 | 0 | | |



5. WASTE MANAGEMENT

5.1 GENERAL WASTE MANAGEMENT

5.1.1 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time.

5.2 **RECORDS OF WASTE QUANTITIES**

- 5.2.1 All types of waste arising from the construction work are classified into the following:
 - Construction & Demolition (C&D) Material;
 - Chemical Waste;
 - General Refuse; and
 - Excavated Soil.
- 5.2.2 The quantities of waste for disposal in this Reporting Period are summarized in *Tables 5-1* and *5-2*.

Table 5-1Summary of Quantities of Inert C&D Materials

| | Quantity | | | | |
|--|-------------|-------------|-------------|-------------------|--|
| Type of Waste | Dec 2023 | Jan 2024 | Feb 2024 | Disposal Location | |
| Total C&D Materials (Inert) ('000m ³) | 0 | 0 | 0.060 | - | |
| Reused in this Contract (Inert) ('000m ³) | 0 | 0 | 0 | - | |
| Reused in other Projects (Inert) ('000m ³) | 0 | 0 | 0 | - | |
| Disposal as Public Fill (Inert) ('000m ³) | 0 | 0 | 0.060 | TM38 | |

Table 5-2Summary of Quantities of C&D Wastes

| | Quantity | | | | |
|--|-------------|-------------|-------------|-------------------|--|
| Type of Waste | Dec 2023 | Jan 2024 | Feb 2024 | Disposal Location | |
| Recycled Metal ('000kg) | 0 | 0 | 0 | - | |
| Recycled Paper / Cardboard Packing ('000kg) | 0 | 0 | 0 | - | |
| Recycled Plastic ('000kg) | 0 | 0 | 0 | - | |
| Chemical Wastes ('000kg) | 0 | 0 | 0 | - | |
| General Refuses ('000m ³) | 0.117 | 0.112 | 0.172 | NENT | |



6. SITE INSPECTION

6.1 **REQUIREMENTS**

6.1.1 According to the approved EM&A Manual, the environmental site inspection shall be formulated by ET Leader. Weekly environmental site inspections should be carried out to confirm the environmental performance.

6.2 FINDINGS / DEFICIENCIES DURING THE REPORTING PERIOD

- 6.2.1 In the Reporting Period, *13* events of joint site inspection by the Employer's Representative (ER), ET, IEC and the Contractor were undertaken for the Contract to evaluate the site environmental performance. No non-compliance was identified during the site inspection. The summaries of findings / deficiencies recorded in the site inspection during the Reporting Period are presented in *Table 6-1*.
- 6.2.2 The findings / deficiencies of the Project observed during the weekly site inspection are listed in *Table 6-1*.

| Reporting Period | Date of site inspection | Nos. of findings / reminders | Follow-Up Status |
|---------------------|-----------------------------------|------------------------------------|---------------------|
| December 2023 | 6, 13, 20 and 27 December 2023 | 6 | Completed |
| January 2024 | 3, 10, 17, 24 and 31 January 2024 | 12 | Completed |
| February 2024 | 7, 14, 21 and 28 February 2024 | 6 | Completed |

 Table 6-1
 Summary of Reminders/Observations of Site Inspection in Reporting Period



7. ENVIRONMENTAL COMPLAINT, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

7.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

7.1.1 In the Reporting Period, no environmental complaint, summons and prosecution under the EM&A Programme was lodged for the project. The statistical summary table of environmental complaint is presented in Tables 7-1, 7-2 and 7-3.

Table 7-1 Statistical Summary of Environmental Complaints

| Donouting Douis d | Environmental Complaint Statistics | | | | | |
|-------------------|---|------------|-------------------------|--|--|--|
| Reporting Period | Frequency | Cumulative | Complaint Nature | | | |
| December 2023 | 0 | 7 | NA | | | |
| January 2024 | 0 | 7 | NA | | | |
| February 2024 | 0 | 7 | NA | | | |

Table 7-2Statistical Summary of Notification of Summons

| Depending Devied | Environmental Summons Statistics | | | | | |
|-------------------------|----------------------------------|------------|----------------|--|--|--|
| Reporting Period | Frequency | Cumulative | Summons Nature | | | |
| December 2023 | 0 | 0 | NA | | | |
| January 2024 | 0 | 0 | NA | | | |
| February 2024 | 0 | 0 | NA | | | |

Table 7-3 Statistical Summary of Successful Prosecutions

| Denerting Denied | Environmental Prosecution Statistics | | | | | | |
|------------------|---|------------|---------------------------|--|--|--|--|
| Reporting Period | Frequency | Cumulative | Prosecution Nature | | | | |
| December 2023 | 0 | 0 | NA | | | | |
| January 2024 | 0 | 0 | NA | | | | |
| February 2024 | 0 | 0 | NA | | | | |



ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

7.2 GENERAL REQUIREMENTS

- 7.2.1 The environmental mitigation measures that recommended in the Environmental Mitigation Implementation Schedule (EMIS) in the approved EM&A Manual covered the issues of dust, noise, water and waste and they are summarized presented in *Appendix H*.
- 7.2.2 AJAJV had been implementing the required environmental mitigation measures according to the Environmental Monitoring and Audit Manual subject to the site condition. Environmental mitigation measures generally implemented by AJAJV in this Reporting Period are summarized in *Table 8-1*.

| Table 8-1 | Environmental Mitigation Measures |
|---------------------|---|
| Issues | Environmental Mitigation Measures |
| Water Quality | Any wastewater generated should be appropriately treated by treatment facilities; Drainage channels were provided to convey run-off into the treatment facilities; and Drainage systems were regularly and adequately maintained. |
| Air Quality | Regular watering to reduce dust emissions from all exposed site surface, particularly during dry weather; Frequent watering for particularly dusty construction areas and areas close to air sensitive receivers; Cover all excavated or stockpile of dusty material by impervious sheeting or sprayed with water to maintain the entire surface wet; Public roads around the site entrance/exit had been kept clean and free from dust; and Tarpaulin covering of any dusty materials on a vehicle leaving the site. |
| Noise | Good site practices to limit noise emissions at the sources; Use of quite plant and working methods; Use of site hoarding or other mass materials as noise barrier to screen noise at ground level of NSRs; Use of shrouds/temporary noise barriers to screen noise from relatively static PMEs; Alternative use of plant items within one worksite, where practicable. |
| Waste Management | Any excavated material should be reused on site as far as possible to minimize off-site disposal. Scrap metals or abandoned equipment should be recycled if possible; Waste arising should be kept to a minimum and be handled, transported and disposed of in a suitable manner; Trip ticket system for the disposal of C&D materials to any designed public filling facility and/or landfill was implemented; and Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes. |
| General | The site was generally kept tidy and clean. |

 Table 8-1
 Environmental Mitigation Measures



8. CONCLUSIONS AND RECOMMENDATIONS

8.1 CONCLUSIONS

- 8.1.1 This is the 17th Quarterly Environmental Monitoring and Audit (EM&A) Summary Report for the Service Contract to summarized monitoring results and inspection findings during the period from 1 December 2023 to 29 February 2024 (the Reporting Period).
- 8.1.2 In the Reporting Period, no construction noise limit level exceedance during daytime and restricted hours was recorded and no noise complaint (which is an Action Level exceedance) was received by the ER, EPD and the Contractors.
- 8.1.3 During the Reporting Period, weekly joint site inspections were undertaken to evaluate the site environmental performance. No non-compliances were observed during the weekly site inspection and environmental audit of the Reporting Period. Minor deficiencies found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.
- 8.1.4 No documented complaint, notification of summons or successful prosecution was received under the Project.

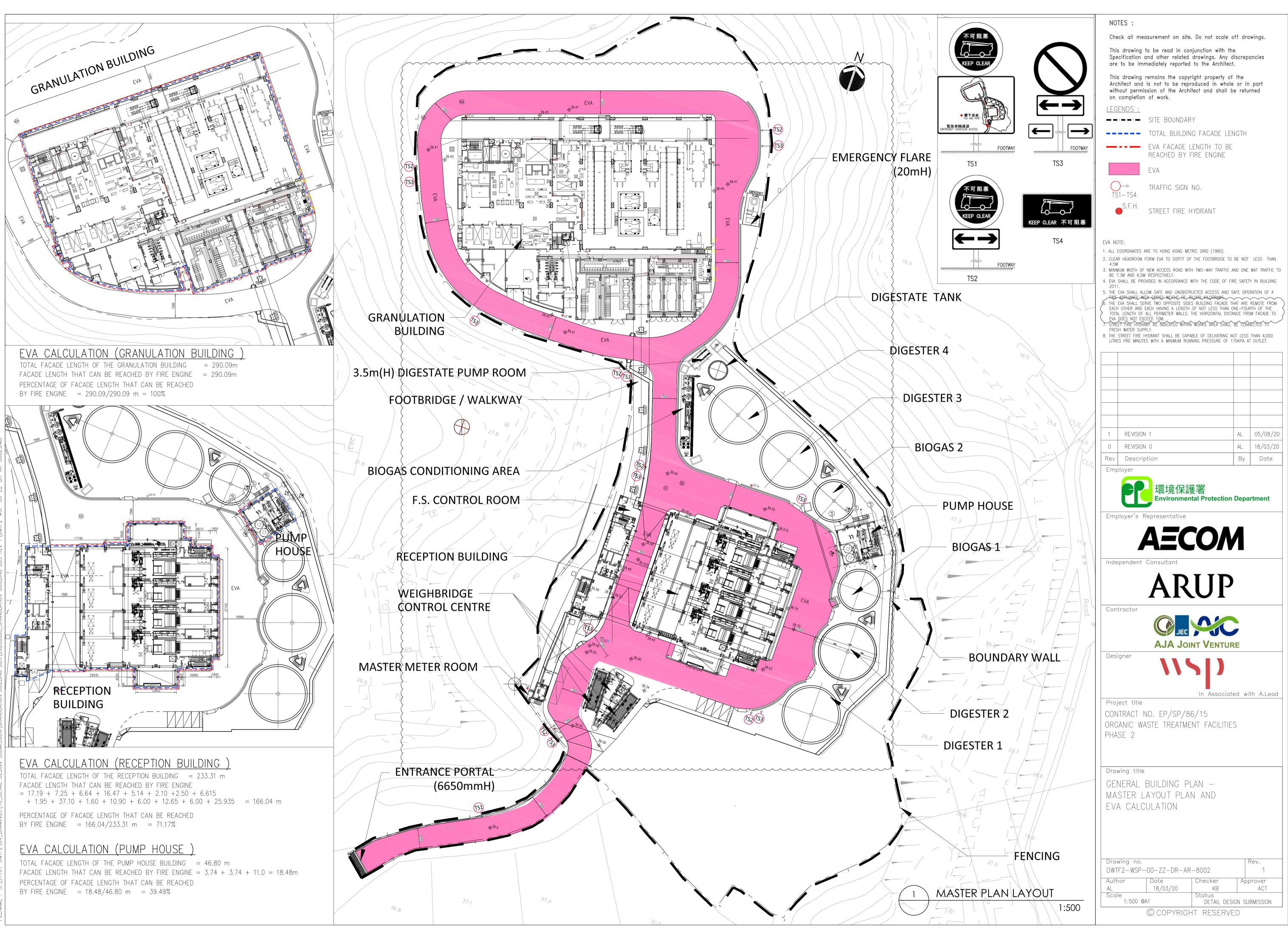
8.2 **RECOMMENDATIONS**

- 1.2.1 Construction noise should be a key environmental impact during the works. The noise mitigation measures such as use of quiet plants or temporary noise barrier installation at the construction noise predominated area should be implemented in accordance with the EM&A requirement and the latest CNP.
- 8.2.1 In addition, all effluent discharge shall be ensured to fulfill the discharge license stipulation.
- 8.2.2 All the trees proposed to be retained in-situ should be properly preserved and protected during the construction works. Tree Preservation and Protection Works for these retained trees shall follow Section 3 and 26 of CEDD's General Specification for Engineering Works and Section 26 of Contract Specification Part B.
- 8.2.3 Trees to be felled shall be in accordance with the Tree Preservation and Removal Proposal (TPRP) to be approved by relevant approval authority. The tree removal work shall only commence after such approval has been granted.
- 8.2.4 Contract Specification Part B Section 1.78 "Waste Management" and DEVB's "Guidelines on Yard Waste Reduction and Treatment" should be referred before tree removal and plan the necessary arrangement.



Appendix A

Layout plan of the Project



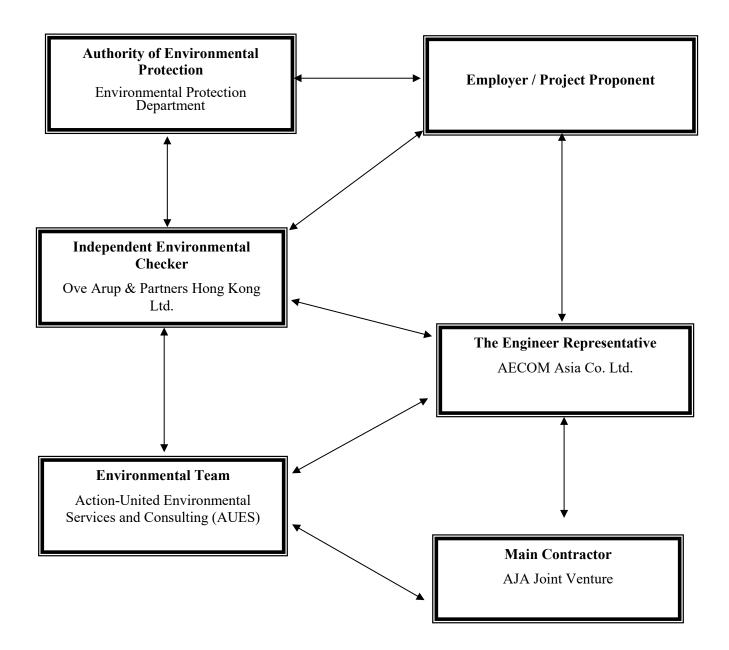


Appendix **B**

Organization Chart



Project Organization Chart





| Organization | Project Role | Name of Key Staff | Tel No. | Fax No. |
|--------------|--|-------------------|-----------|-----------|
| EPD | Project Proponent | Sunny Chiu | 3151 7209 | 3528 0492 |
| AECOM | Resident Engineer | Terrence Lam | 5579 5239 | 3010 8507 |
| AECOM | Resident Engineer | Ivan Yung | 5723 7750 | 3010 8507 |
| ARUP | Independent Environmental Checker | Ricky Chui | 2268 3437 | 2268 3380 |
| ARUP | Engineer (Safety, Environment and Planning) | Roy Ng | 2268 3588 | 2268 3588 |
| AJAJV | Project Manager | Victor Wu | 2862 5013 | 2862 5013 |
| AJAJV | Construction Manager | Ethan Wong | 9805 7325 | 9805 7325 |
| AJAJV | Project Environmental Manager | Samuel Tsui | 9455 5865 | 9455 5865 |
| AJAJV | Environmental Officer | Harry Lam | 9353 6141 | 9353 6141 |
| AUES | Environmental Team Leader | T. W. Tam | 2959 6059 | 2959 6079 |
| AUES | Environmental Consultant | Nicola Hon | 2959 6059 | 2959 6079 |
| AUES | Environmental Consultant | Ben Tam | 2959 6059 | 2959 6079 |
| AUES | Environmental Consultant | Martin Li | 2959 6059 | 2959 6079 |

Contact Details of Key Personnel for the Project

Legend:

EPD (*Employer*) – *Environmental Protection Department*

AECOM (Project Consultant) – AECOM Asia Co. Ltd.

AJAJV (Main Contractor) – AJA Joint Venture

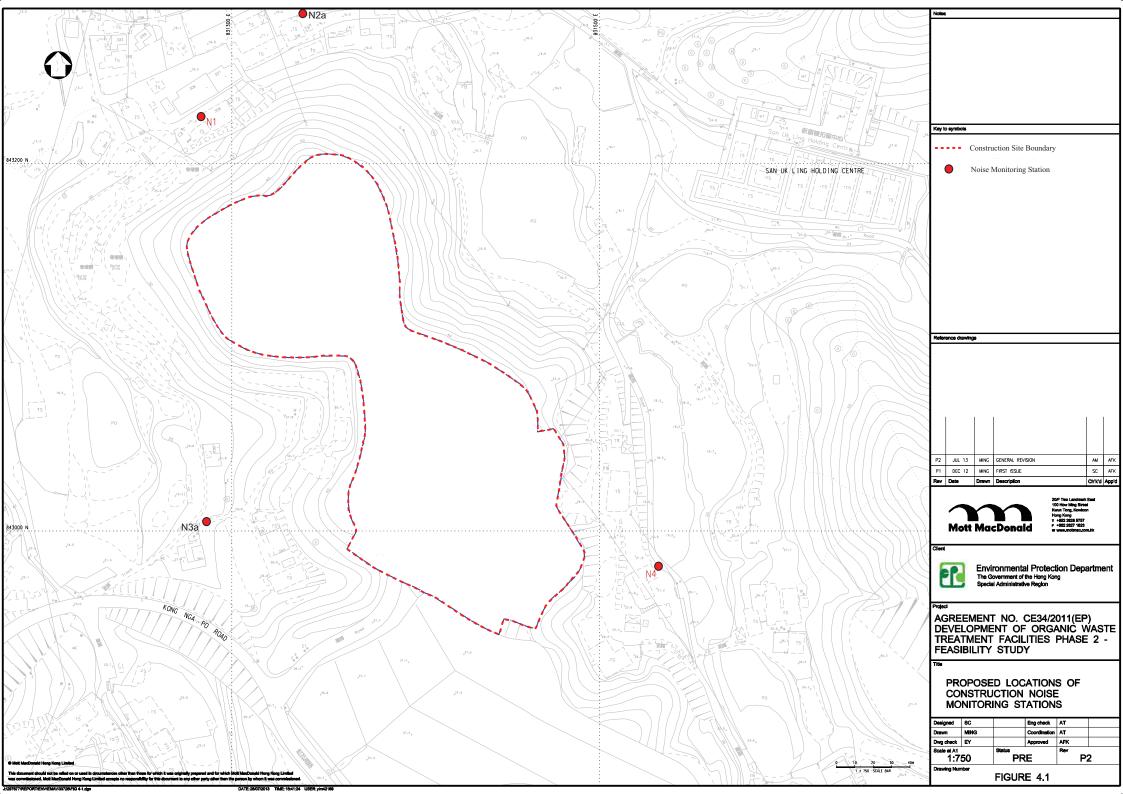
ARUP (IEC) – Ove Arup & Partners Hong Kong Ltd.

AUES (ET) – Action-United Environmental Services & Consulting



Appendix C

Monitoring Locations for Impact Monitoring





Appendix D

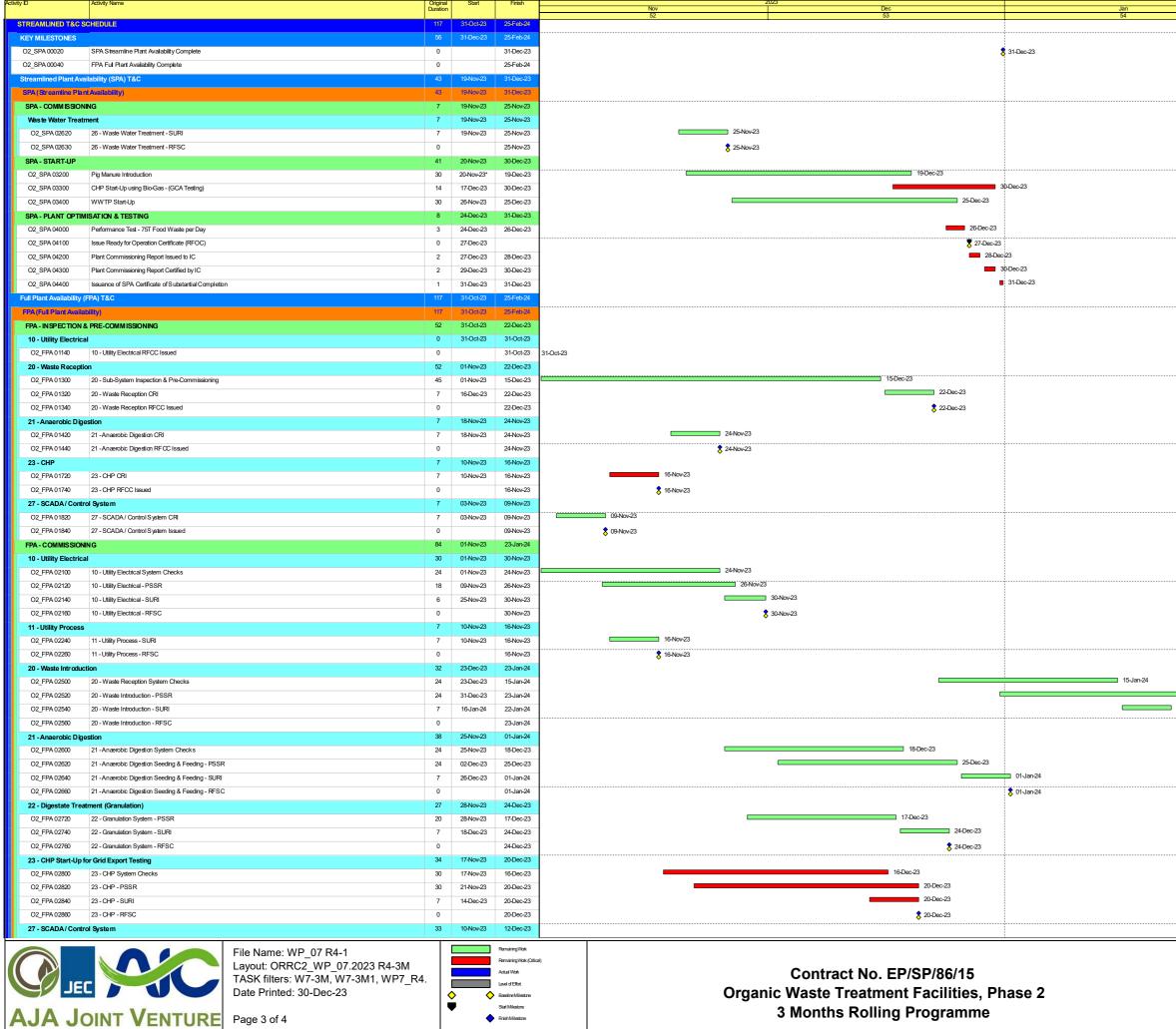
3-Month Rolling Construction Programme

| Activity ID | Activity Name | Original Duration | Start | Finish | 2023 | 2024 | |
|--------------------|--|----------------------|------------|---------------------------------------|--|-----------|----------|
| | | Duration | | | Nov Dec Jan 52 53 54 | | |
| | | 118 | 31-Oct-23 | 25-Feb-24 | | | |
| CIVIL, STRUCTURALA | | 62 | 31-Oct-23 | 01-Jan-24 | | | |
| | G (INCLUDING ADMINISTRATION BUILDING) | 62 | 31-Oct-23 | 31-Dec-23 | | | |
| ABWF WORKS | | 62 | 31-Oct-23 | 31-Dec-23 | | | |
| Ground Floor | | 22 | 31-Oct-23 | 21-Nov-23 | | | |
| | Display Area (R-G01) - FRR ceiling (replace damaged board) | 8 | 01-Nov-23* | 08-Nov-23 | 08-Nov-23 | | |
| | Display Area (R-G01) - Entrance glass door/ glass panel | 8 | 09-Nov-23* | 16-Nov-23 | 16-Nov-23 | | |
| | Laboratory (R-G03) - Remaining wall | 4 | 01-Nov-23* | 04-Nov-23 | 04/Nov/23 | | |
| O2_CS_RB0160 | Contaminants Bays (R-G20) - Floor paint | 4 | 01-Nov-23* | 04-Nov-23 | 04/Nov-23 | | |
| O2_CS_RB0190 | Air Compressor Room (R-G30) - Floor paint | 4 | 31-Oct-23* | 03-Nov-23 | 03/lov-23 | | |
| O2_CS_RB0210 | Process Water Pump Room (R-G28) - Floor paint | 4 | 31-Oct-23* | 03-Nov-23 | 03Nov-23 | | |
| O2_CS_RB0230 | Grey Water Pump Room (R-G29) - Floor paint | 4 | 31-Oct-23* | 03-Nov-23 | 03Nov-23 | | |
| O2_CS_RB0250 | Bin Unloading Bay 5/ Refuse Chamber (R-G32) - Surface Channel | 8 | 01-Nov-23* | 08-Nov-23 | 08-Nov-23 | | |
| O2_CS_RB0260 | Bin Unloading Bay 5/ Refuse Chamber (R-G32) - Floor finish + floor paint | 8 | 09-Nov-23* | 16-Nov-23 | 16-Nov-23 | | |
| O2_CS_RB0280 | Tanker Bay (R-G31) - Ucrete floor finish | 8 | 08-Nov-23* | 15-Nov-23 | 15Nov23 | | |
| O2_CS_RB0340 | EVA passage - Baffle ceiling/ hanger wall | 15 | 07-Nov-23* | 21-Nov-23 | 21No/23 | | |
| First Floor | | 46 | 31-Oct-23 | 15-Dec-23 | | | |
| O2_CS_RB0350 | Flat Roof (R-F12) - Waterproofing | 4 | 01-Dec-23* | 04-Dec-23 | 04Dec.23 | | |
| O2_CS_RB0360 | Flat Roof (R-F12) - Floor Screeding | 4 | 05-Dec-23* | 08-Dec-23 | 06-Dec-23 | | |
| O2_CS_RB0370 | Flat Roof (R-F12) - Glass balustrade | 7 | 09-Dec-23* | 15-Dec-23 | 15-Dec-23 | | |
| O2_CS_RB0380 | Manager Room (R-F02) - Glass panel | 7 | 09-Dec-23* | 15-Dec-23 | 1506-23 | | |
| O2_CS_RB0420 | Fireman's Lift Lobby 2 - Wall Painting | 4 | 09-Nov-23* | 12-Nov-23 | 12Nov-23 | | |
| O2_CS_RB0530 | Male Toilet (R-F09) - Surface channel | 8 | 31-Oct-23* | 07-Nov-23 | 07-Nov-23 | | |
| O2_CS_RB0560 | Female Toilet (R-F10) - Surface channel | 8 | 31-Oct-23* | 07-Nov-23 | 07-Nov-23 | | |
| O2_CS_RB0580 | Corridor to R-ST3 (R-F14) - Floor finish (Grano) | 8 | 07-Nov-23* | 14-Nov-23 | 14-Nov-23 | | |
| O2_CS_RB0610 | Canopy along gridline SJ - Waterproofing | 4 | 01-Dec-23* | 04-Dec-23 | 04Dec-23 | | |
| | Canopy along gridline SJ - Floor Screeding | 4 | 05-Dec-23* | 08-Dec-23 | 08-Dec-23 | | |
| Roof Floor | | 61 | 01-Nov-23 | 31-Dec-23 | | | |
| O2_CS_RB0650 | ELV Room (R-R12) - Raised floor | 16 | 10-Nov-23* | 25-Nov-23 | 25-Nov-23 | | |
| | LV Room (R-R13) - Raised floor | 16 | 10-Nov-23* | 25-Nov-23 | 25-Nov-23 | | |
| | Lactation Room 1 (R-R17A) - Raised floor | 16 | 10-Nov-23* | 25-Nov-23 | 25No+23 | | |
| | Lactation Room 1 (R-R17B) - Raised floor | 16 | 10-Nov-23* | 25-Nov-23 | 25Nov-23 | | |
| | Male Changing Room (R-R15) - Remaining wall (Tiling Works) | 8 | 01-Nov-23* | 08-Nov-23 | 08-Nov-23 | | |
| | Male Changing Room (R-R15) - floor finish (Tiling Works) | 8 | 01-Nov-23* | 08-Nov-23 | 08-Nov-23 | | |
| | Female Changing Room (R-R16) - floor finish (Tiling Works) | 8 | 01-Nov-23* | 08-Nov-23 | 08-Nov-23 | | |
| | Acc. Tolet (R-R17) - Remaining floor finish (Tiling Works) | 8 | 01-Nov-23* | 08-Nov-23 | 08Nov-23 | | |
| | | 17 | 15-Dec-23* | 31-Dec-23 | 31-Dec-23 | | |
| | Corridor (R-R02) next to Conference Room - Sliding window GD8/1 | 17 | 15-Dec-23* | 31-Dec-23 | 31-Dec-23 | | |
| | Corridor (R-R02) next to Conference Room - Glass door GD7/1A Corridor (R-R02) next to October Mond Deplains Class door CD0/1 | | | | 31-Dec-23 | | |
| | Corridor (R-R02) next to Outdoor Wood Decking - Glass door GD9/1 | 17 | 15-Dec-23* | 31-Dec-23 | 31-Dec-23 | | |
| | Corridor (R-R02) next to Outdoor Wood Decking - Sliding folding glass door GD4/1 | 17 | 15-Dec-23* | 31-Dec-23 | 31-Dec-23 | | |
| | Corridor (R-R02) next to Outdoor Wood Decking - Fixed glass panel GD3/1 | 17 | 15-Dec-23* | 31-Dec-23 | 30Nov23 | | |
| | Conference Room (R-R03) - Sliding folding door | 5 | 26-Nov-23* | 30-Nov-23 | | | |
| | Conference Room (R-R03) - Raised floor | 16 | 10-Nov-23* | 25-Nov-23 | 25-Nov-23 | | |
| | LAN/ Server Room (R-R07) - Raised floor | 16 | 10-Nov-23* | 25-Nov-23 | 25-Nov-23 | | |
| | MCC1 (R-R23) - Remaining raised floor | 11 | 01-Nov-23* | 11-Nov-23 | 11-No+23 | | |
| | MCC1 (R-R23) - Wall finish | 4 | 12-Nov-23* | 15-Nov-23 | 15Nov23 | | |
| | A/C Room (R-R25) - Remaining raised floor | 11 | 01-Nov-23* | 11-Nov-23 | 11-Nov-23 | | |
| | A/C Room (R-R25) - Wall finish | 4 | 12-Nov-23* | 15-Nov-23 | 15Nov23 | | |
| O2_CS_RB0920 | MCC2 (R-R24) - Remaining raised floor | 11 | 01-Nov-23* | 11-Nov-23 | 11-Nov-23 | | |
| O2_CS_RB0930 | Irrigation Plant Room (R-R26) - Floor paint | 8 | 16-Nov-23* | 23-Nov-23 | 23Nov-23 | | |
| O2_CS_RB0940 | EL Room (for future provision) (R-R27) - Floor paint | 8 | 16-Nov-23* | 23-Nov-23 | 23Nov-23 | | |
| | FS & Spr. Pump Room (R-R30)- Floor paint | 8 | 16-Nov-23* | 23-Nov-23 | 23Nov23 | | |
| O2_CS_RB0960 | Service Corridor (R-R28) - Floor paint | 8 | 16-Nov-23* | 23-Nov-23 | 23Nov23 | | |
| O2_CS_RB0970 | Fireman's Lift Lobby 1 (R-R29) - Floor (Tiling Works) | 4 | 08-Nov-23* | 11-Nov-23 | 11-Nov-23 | | |
| O2_CS_RB0980 | Fireman's Lift Lobby 1 (R-R29) - Wall | 7 | 24-Nov-23* | 30-Nov-23 | 30-Nov-23 | | |
| O2_CS_RB0990 | Protected Lobby (R-32) - Floor paint | 7 | 24-Nov-23* | 30-Nov-23 | 30Nov-23 | | |
| O2_CS_RB1000 | Genset Room (R-R31) - Floor paint | 7 | 24-Nov-23* | 30-Nov-23 | 30-Nov-23 | | |
| O2_CS_RB1060 | Outdoor Wood Decking (R-R33) - Wood deck | 13 | 04-Dec-23* | 16-Dec-23 | 16-Dec-23 | | |
| O2_CS_RB1070 | Outdoor Wood Decking (R-R33) - Floor Screeding | 6 | 27-Nov-23* | 02-Dec-23 | 02-Dec-23 | | |
| O2_CS_RB1080 | Outdoor W cod Decking (R-R33) - Waterproof | 3 | 25-Nov-23* | 27-Nov-23 | 27-Nor-23 | | |
| | Wood Deck (R-R36) - Wood deck | 13 | 04-Dec-23* | 16-Dec-23 | 16Dec-23 | | |
| | Wood Deck (R-R36) - Baffle ceiling | 9 | 22-Nov-23* | 30-Nov-23 | 30-Nov-23 | | |
| | Operator Meeting Room (R-R42) - Raised floor | 5 | 26-Nov-23* | 30-Nov-23 | 30-Nov-23 | | |
| | Store (R-R41) - Floor paint | 6 | 01-Dec-23* | 06-Dec-23 | 06-Dec-23 | | |
| | Store (R-R38) - Floor paint | 6 | 01-Dec-23* | 06-Dec-23 | 06-Dec-23 | | |
| | Gridine S6/SD-SF - Baffle ceiling | 9 | 22-Nov-23* | 30-Nov-23 | 30/\0+23 | | |
| | Fireman's Lift Lobby 1 - Wall | 9 | 06-Dec-23* | 12-Dec-23 | 12-Dec-23 | | |
| 02_00_101100 | r norman centedody i - truit | <u>'</u> | 00-260-23 | 12-000-23 | | | |
| | File Name: WP_07 R4-1 | [| | RemainingWork | | | extra |
| | Layout: ORRC2_WP_07.2023 R4-3M | | | Remaining Work (Critic | , | Date | Revision |
| | TASK filters: W/7-3M W/7-3M1 W/P7 R4 | | | Actual Work | Contract No. EP/SP/86/15 | 30-Dec-23 | |
| JEC | Date Printed: 30-Dec-23 | | | Level of Effort Baseline Milestone | Organic Waste Treatment Facilities, Phase 2 | | |
| | | ŭ | - | Start Milestone | | | |
| AJA Jo | DINT VENTURE Page 1 of 4 | | | FinishMilestone | 3 Months Rolling Programme | | |
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| Activity D | Activity Name | Original Duration | Start | Finish | 2023 Nov Dec E2 | Jan | 2024 | | |
| 02_CS_RB1170 | Fireman's Lift Lobby 1 - Floor (Tiling Works) | 4 | 12-Nov-23* | 15-Nov-23 | 15Nov-23 | +0 | | | |
| O2_CS_RB1180 | Fireman's Lift Lobby 2 - Wall | 7 | 06-Dec-23* | 12-Dec-23 | 12-Dec-23 | | | | |
| O2_CS_RB1190 | Fireman's Lift Lobby 2 - Floor | 4 | 15-Nov-23* | 18-Nov-23 | 18-Nov-23 | | | | |
| Upper Roof Floor | | 29 | 18-Nov-23 | 16-Dec-23 | | | | | |
| O2_CS_RB1200 | Fireman's Lift Lobby 1 - Wall | 7 | 06-Dec-23* | 12-Dec-23 | 12-Dec-23 | | | | |
| O2_CS_RB1210 | Fireman's Lift Lobby 1 - Floor | 5 | 18-Nov-23* | 22-Nov-23 | 22-Nov-23 | | | | |
| O2_CS_RB1220 | Fireman's Lift Lobby 2 - Wall | 7 | 06-Dec-23* | 12-Dec-23 | 12-Dec-23 | | | | |
| O2_CS_RB1230 | Fireman's Lift Lobby 2 - Floor | | 22-Nov-23* | 25-Nov-23 | 25-Nov-23 | | | | |
| 02_CS_RB1250 | Wood Deck (R-U03) - Wood deck | | 20-Nov-23* | 02-Dec-23 | 02-Dec-23 | | | | |
| 02_CS_RB1260 | R-ST5 - Wood deck | | 04-Dec-23* | 16-Dec-23 | 16-Dec-23 | | | | |
| Stairs | | | 14-Nov-23 | 28-Nov-23 | | | | | |
| 02_CS_RB1290 | R-ST3 - Floor finish (Grano) | | 14-Nov-23* | 21-Nov-23 | 21-Nov-23 | | | | |
| | R-ST4 - Floor finish (Grano) + surface channel | | 21-Nov-23* | 28-Nov-23 | 28-Nov-23 | | | | |
| GRANULATION BUIL | | | 01-Nov-23 | 01-Jan-24 | | | | | |
| ABWE WORKS | | | 01-Nov-23 | 01-Jan-24 | | | | | |
| Basement | | | 13-Nov-23 | 17-Nov-23 | | | | | |
| O2_CS_GB0030 | Pump Pit (G-801) - Floor paint | | 13-Nov-23* | 17-Nov-23 | 17-Nov-23 | | | | |
| | PumpPit (Goot)-Fixia paint | | | | | | | | |
| Ground Floor | Plant Rooms/ Granulation Hall/ WWTP - Floor finish | | 05-Nov-23 | 01-Jan-24 | | | | | |
| O2_CS_GB0050 | | | 17-Nov-23* | 30-Nov-23 | 30/\0/-23 | | | | |
| O2_CS_GB0060 | Plant Rooms - Wall | | 17-Nov-23* | 30-Nov-23 | 30/10/-23 | | | | |
| O2_CS_GB0070 | Granulation Hall - Wall | | 17-Nov-23* | 30-Nov-23 | | | | | |
| O2_CS_GB0080 | WWTP - Wall | | 17-Nov-23* | 30-Nov-23 | 30-Nov-23 13-Nov-23 | | | | |
| O2_CS_GB0110 | Drive Way (G-G02) - Hardener | | 05-Nov-23* | 13-Nov-23 | | 1. 01. Jan-24 | | | |
| O2_CS_GB0130 | Drive Way (G-G02) - Alum. Feature | | 15-Dec-23* | 01-Jan-24 | | 01-Jan-24 | | | |
| O2_CS_GB0160 | Male/ Female Changing Room (G-G18, 19, 19a, 20) - Ceiling finish | | 05-Nov-23* | 15-Nov-23 | 15-Nov-23 | 24 Dec 92 | | | |
| O2_CS_GB0170 | Male/ Female Changing Room (G-G18, 19, 19a, 20) - Toilet cubicle | 17 | 15-Dec-23* | 31-Dec-23 | | 31-Dec-23 | | | |
| O2_CS_GB0200 | Staff Resting Area (G-G21A) - Wall (Painting) | 8 | 05-Nov-23* | 12-Nov-23 | 12Nov-23 | | | | |
| O2_CS_GB0210 | Workshop (G-G14) - Floor finish (Hardener) | | 05-Nov-23* | 12-Nov-23 | 12Nov23 | | | | |
| O2_CS_GB0220 | Workshop (G-G14) - Floor paint | | 05-Nov-23* | 12-Nov-23 | 12Nov-23 | | | | |
| O2_CS_GB0230 | Corridor (G-G20) - Floor paint | 8 | 05-Nov-23* | 12-Nov-23 | 12Nov-23 | | | | |
| O2_CS_GB0240 | Lift Lobby (G-G21) - Floor paint | | 13-Nov-23* | 20-Nov-23 | 20-Nov-23 | | | | |
| O2_CS_GB0250 | CEMS Room (G-G31) - Floor finish (Epoxy) | 8 | 13-Nov-23* | 20-Nov-23 | 20-Nov-23 | | | | |
| O2_CS_GB0260 | CEMS Room (G-G31) - Floor paint | 8 | 13-Nov-23* | 20-Nov-23 | 20-Nor-23 | | | | |
| O2_CS_GB0270 | CEMS Room (G-G31) - Wall finish | 8 | 13-Nov-23* | 20-Nov-23 | 20Nor-23 | | | | |
| O2_CS_GB0280 | Pipe Duct Room (G-G12) - Guard railing | 8 | 21-Nov-23* | 28-Nov-23 | 28-Nov-23 | | | | |
| O2_CS_GB0290 | EL Room (G-G22) - Floor Finishes (Epoxy) | 8 | 13-Nov-23* | 20-Nov-23 | 20-Nov-23 | | | | |
| 02_00_000230 | | | | | | | | | |
| 02_03_0B0230 | EL Room (G-G22) - Floor paint | 8 | 13-Nov-23* | 20-Nov-23 | 20-Nov-23 | | | | |
| | | | 13-Nov-23* 04-Nov-23 | 20-Nov-23 11-Dec-23 | | | | | |
| O2_CS_GB0300 | | 38 | | | 25-Nov-23 | | | | |
| O2_CS_GB0300 Mezzanine Floor | EL Room (G-G22) - Floor paint | 38 5 | 04-Nov-23 | 11-Dec-23 | | | | | |
| 02_CS_GB0300 Mezzanine Floor 02_CS_GB0310 02_CS_GB0320 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint | 38 5 10 | 04-Nov-23 21-Nov-23* | 11-Dec-23 25-Nov-23 | 25Nov-23 30Nov-23 04-Dec-23 | | | | |
| 02_CS_GB0300 Mezzanine Floor 02_CS_GB0310 02_CS_GB0320 02_CS_GB0330 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing | 38 5 10 4 | 04-Nov-23 21-Nov-23* 21-Nov-23* | 11-Dec-23 25-Nov-23 30-Nov-23 | 25Nov23 30Nov23 | | | | |
| 02_CS_GB0300 Mezzanine Floor 02_CS_GB0310 02_CS_GB0320 02_CS_GB0330 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing | 38 5 10 4 4 | 04-Nov-23 21-Nov-23* 21-Nov-23* 01-Dec-23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 | 25Nov-23 30Nov-23 04-Dec-23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0320 O2_CS_GB0330 O2_CS_GB0340 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing Flat Roof @+41.725 - Vateproofing Flat Roof @+41.725 - Floor screeding | 38 5 10 4 4 11 | 04-Nov-23 21-Nov-23* 21-Nov-23* 01-Dec-23* 05-Dec-23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 08-Dec-23 | 25Nov23 30Nov23 04Dec23 08Dec23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0320 O2_CS_GB0330 O2_CS_GB0340 O2_CS_GB0380 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing Flant Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) | 38 5 10 4 4 11 11 | 04-Nov-23 21-Nov-23* 21-Nov-23* 01-Dec-23* 05-Dec-23* 04-Nov-23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 08-Dec-23 14-Nov-23 | 25Nov23 30Nov23 04Dec-23 08-Dec-23 14-Nov23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0330 O2_CS_GB0340 O2_CS_GB0390 O2_CS_GB0390 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Wall (Furring + Tiling Works) | 38 5 10 4 11 11 8 | 04-Nov-23 21-Nov-23* 21-Nov-23* 01-Dec-23* 05-Dec-23* 04-Nov-23* 04-Nov-23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 08-Dec-23 14-Nov-23 14-Nov-23 | 25Nov23 30Nov23 04Dec-23 08-Dec-23 14-Nov-23 14-Nov-23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0330 O2_CS_GB0330 O2_CS_GB0390 O2_CS_GB0390 O2_CS_GB0400 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish | 38 5 10 4 11 11 8 14 | 04-Nov-23 21-Nov-23* 21-Nov-23* 01-Dec-23* 05-Dec-23* 04-Nov-23* 04-Nov-23* 16-Nov-23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 08-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 | 25Nov23 30Nov23 04Dec23 06Dec-23 14Nov23 14Nov23 23Nov23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Roor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer L/V Switch Room (G-M04) - Remaining raised floor | 38 5 10 4 4 11 11 8 14 11 | 04-Nov-23 21-Nov-23* 21-Nov-23* 01-Dec-23* 05-Dec-23* 04-Nov-23* 16-Nov-23* 07-Nov-23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 08-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 20-Nov-23 | 25Nov23 30Nov23 04Dec23 08Dec-23 14Nov23 14Nov23 23Nov23 20Nov23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0460 O2_CS_GB0470 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Rior paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Wall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer L/V Switch Room (G-M04) - Remaining raised floor Customer L/V Switch Room (G-M04) - access stairway | 38 5 10 4 4 11 11 8 14 11 11 | 04-Nov-23 21-Nov-23* 21-Nov-23* 01-Dec-23* 05-Dec-23* 04-Nov-23* 04-Nov-23* 07-Nov-23* 07-Nov-23* 01-Dec-23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 08-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 20-Nov-23 11-Dec-23 | 25Nivv23 30Nivv23 04Dec-23 08Dec-23 14Nivv23 14Nivv23 23Nivv23 20Nivv23 11Dec-23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0490 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Rior paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Wall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer L/V Switch Room (G-M04) - Remaining raised floor Customer L/V Switch Room (G-M04) - Guadr railing Customer L/V Switch Room (G-M04) - Guadr railing | 38 5 10 4 4 11 11 8 14 11 11 11 11 11 11 11 11 11 11 | 04-Nov-23 21-Nov-23* 21-Nov-23* 01-Dec-23* 05-Dec-23* 04-Nov-23* 04-Nov-23* 04-Nov-23* 07-Nov-23* 01-Dec-23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 08-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 | 25Nivv23 30Nivv23 04Dec-23 06Dec-23 14Nivv23 14Nivv23 23Nivv23 20Nivv23 11Dec-23 11Dec-23 11Dec-23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0490 O2_CS_GB0490 O2_CS_GB0490 O2_CS_GB0490 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Vall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - access stariway Customer LV Switch Room (G-M04) - Removable railing to MD6/1 | 38 5 10 4 11 11 8 14 11 11 11 8 14 11 11 11 8 | 04Nov23 21Nov23* 21Nov23* 01Dec23* 05Dec23* 04Nov23* 04Nov23* 06Nov23* 07Nov23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 | 25-Nov23 30-Nov23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0500 O2_CS_GB0500 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Roor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Vall (Furting + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Corridor (G-M19) - Window W07 | 38 5 10 4 11 11 11 14 11 11 11 13 14 11 11 11 8 8 8 | 04Nov23 21Nov23* 21Nov23* 01Dec23* 05Dec23* 04Nov23* 04Nov23* 06Nov23* 07Nov23* 01Dec23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 22-Nov-23 | 25-Nov23 30-Nov23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 14-Nov-24 14 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Roor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Wall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - access staiway Customer LV Switch Room (G-M04) - Removable railing Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Corridor (G-M19) - Vindow W07 Corridor (G-M19) - Floor finish (Epoxy) | 38 5 10 4 4 11 11 11 14 11 11 11 11 8 8 8 8 8 | 04Nov23 21Nov23* 21Nov23* 01Dec23* 05Dec23* 04Nov23* 04Nov23* 06Nov23* 07Nov23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec3* 01Dec3* 01Dec3* 01Dec3* 01Dec3* 0200000000000000000000000000000000000 | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 14-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 22-Nov-23 03-Dec-23 | 25-Nov23 04-Dec-23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 14-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Roor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Vall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Vall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Removable railing Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Corridor (G-M19) - Floor finish (Epoxy) Corridor (G-M19) - Floor paint | 38 5 10 4 4 11 11 11 14 11 11 11 11 8 8 8 8 8 8 8 8 8 | 04Nov23 21Nov23* 21Nov23* 01Dec-23* 05Dec-23* 04Nov23* 04Nov23* 04Nov23* 06Dec-23* 04Nov23* 01Dec-23* 05Dec-23* 05Dec-2 | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 08-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 14-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 22-Nov-23 22-Nov-23 30-Dec-23 03-Dec-23 03-Dec-23 | 25-Nov23 04-Dec-23 04-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 14-Nov-23 20-Nov-23 11-Dec-24 11-Dec-24 11-Dec-24 11-Dec-25 1 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 O2_CS_GB0500 | ELRoom (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Roor paint Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Vall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Coridor (G-M19) - Floor paint G-ST3 - Floor finish (Epoxy) G-ST3 - Floor finish (Epoxy) | 38 5 10 4 4 4 11 11 14 11 11 11 11 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 04Nov23 21Nov23* 21Nov23* 01Dec-24* 05Dec-24* 04Nov23* 04Nov23* 04Nov23* 06Dec-24* 04Nov23* 04Nov23* 01Dec-24* 01Dec-24* 01Dec-24* 01Dec-24* 01Dec-24* 01Dec-24* 01Dec-24* 01Dec-24* 01Dec-24* 05Dec-24* 06Dec-24* 06Dec-24 | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 08-Dec-23 14-Nov-23 14-Nov-23 14-Nov-23 23-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 22-Nov-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 | 25-Nov23 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 0 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0500 | ELRoom (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Roor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Vall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Vall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Coridor (G-M19) - Vindow W07 Coridor (G-M19) - Floor paint G-ST3 - Floor paint G-ST3 - Floor paint G-ST3 - Floor paint G-ST3 - Wall finish (painting) | 38 5 10 4 11 11 11 11 11 11 11 11 11 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 04Nov23 21Nov23* 21Nov23* 01Dec23* 05Dec23* 04Nov23* 04Nov23* 04Nov23* 04Nov23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec3* 01Dec3* 01Dec3* 26Nov23* | 11-Dec-23 25-Nov-23 30-Nov-23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 23-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 22-Nov-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-24 | 25-Nov-23 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0301 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0500 | ELRoom (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Roor paint Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Vall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Coridor (G-M19) - Floor paint G-ST3 - Floor finish (Epoxy) G-ST3 - Floor finish (Epoxy) | 38 5 10 4 11 11 8 11 11 11 11 8 8 8 | 04Nov23 21Nov23* 21Nov23* 01Dec23* 05Dec23* 04Nov23* 04Nov23* 04Nov23* 04Nov23* 04Nov23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec3* 01Dec3* 01Dec3* 26Nov23* | 11-Dec-23 25-Nov-23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 23-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 13-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 | 25-Nov-23 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0330 O2_CS_GB0330 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0500 | EL Room (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Roor paint Plant Rooms - Railing Flat Roof @+41.725 - Wateproofing Flat Roof @+41.725 - Wateproofing Male/ Female Law (G-M06, 07, 8 09) - Floor Finishes (Tiing Works) Male/ Female Law (G-M06, 07, 8 09) - Vall (Furning + Tiing Works) Male/ Female Law (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - access staiway Customer LV Switch Room (G-M04) - Removable railing Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Coridor (G-M19) - Floor finish (Epoxy) Coridor (G-M19) - Floor paint G-ST3 - Floor paint G-ST3 - Floor paint EL Room (G-M12) - Floor paint | 38 5 10 4 4 11 11 14 11 11 8 45 | 04Nov23 21Nov23* 21Nov23* 01Dec23* 05Dec23* 04Nov23* 04Nov23* 04Nov23* 04Nov23* 04Nov23* 01Dec23* 01Dec23* 01Dec23* 01Dec23* 01Dec3* 15Nov23* 26Nov23* | 11-Dec-23 25-Nov-23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 23-Nov-23 23-Nov-23 20-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 03-Dec-23 | 25-Nov-23 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 04-Dec-24 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0500 | ELRoom (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor socreeding Male/ Female Law (G-M06, 07, 8 09) - Vall (Furning + Tiling Works) Male/ Female Law (G-M06, 07, 8 09) - Vall (Furning + Tiling Works) Male/ Female Law (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - access staiway Customer LV Switch Room (G-M04) - access staiway Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Coridor (G-M19) - Floor finish (Epoxy) Coridor (G-M19) - Floor paint G-ST3 - Floor finish (Epoxy) G-ST3 - Floor paint G-ST3 - Vlall finish (painting) EL Room (G-M12) - Floor paint | 38 5 10 4 11 11 14 11 11 11 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 4 | 04Nov23 21Nov23* 21Nov23* 01Dec23* 05Dec23* 04Nov23* 04Nov23* 04Nov23* 04Nov23* 04Nov23* 01Dec23* 01Dec23* 01Dec23* 01Dec3* 01Dec3* 01Dec3* 26Nov23* 26 | 11-Dec-23 25-Nov-23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 14-Nov-23 23-Nov-23 23-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 03-Dec-23 03-Dec-24 03-Dec-25 03-Dec-26 03-Dec-27 03-Dec-28 03-Dec-28 <td< td=""><td>25Nov23 04Dec.23 04Dec.23 04Dec.23 04Dec.23 14Nov23 23Nov23 11Dec.24 11Dec.25</td><td></td><td></td><td></td><td></td></td<> | 25Nov23 04Dec.23 04Dec.23 04Dec.23 04Dec.23 14Nov23 23Nov23 11Dec.24 11Dec.25 | | | | |
| O2_CS_GB0300 Mezzanine Floor O2_CS_GB0310 O2_CS_GB0310 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0300 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0400 O2_CS_GB0500 | ELRoom (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing Flat Roof @+41.725 - Wateproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lav. (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Vall (Furring + Tiling Works) Male/ Female Lav. (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Corridor (G-M19) - Floor finish (Epoxy) Corridor (G-M19) - Floor paint G-ST3 - Floor paint G-ST3 - Floor paint KCC5, MCC6, MCC7 - Remaining raised floor MCC5, MCC6, MCC7 - Remaining raised floor | 38 5 10 4 11 11 11 11 11 11 11 11 11 8 8 8 8 8 8 8 8 8 4 4 4 4 | 04Nov23 21Nov23* 21Nov23* 01Dec23* 05Dec23* 04Nov23* 04Nov23* 04Nov23* 04Nov23* 04Nov23* 01Dec23* 01Dec23* 01Dec23* 01Dec3* 01Dec3* 01Dec3* 26Nov23* 26 | 11-Dec-23 25-Nov-23 04-Dec-23 06-Dec-23 14-Nov-23 14-Nov-23 14-Nov-23 23-Nov-23 23-Nov-23 11-Dec-23 11-Dec-23 11-Dec-23 11-Dec-23 03-Dec-23 03-Dec-24 03-Dec-25 03-Dec-24 | 25Nov23 04Dec23 04Dec23 04Dec23 14Nov23 14Nov23 23Nov23 20Nov23 11Dec23 14D | | | | |
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| 02_CS_GB0300 Mezzanine Floor 02_CS_GB0310 02_CS_GB0300 02_CS_GB0300 02_CS_GB0300 02_CS_GB0300 02_CS_GB0300 02_CS_GB0300 02_CS_GB0300 02_CS_GB0300 02_CS_GB0400 02_CS_GB0400 02_CS_GB0400 02_CS_GB0400 02_CS_GB0400 02_CS_GB0500 02_CS_GB0600 02_CS_GB0610 02_CS_GB0630 02_CS_GB063 | ELRoom (G-G22) - Floor paint Plant Rooms - Floor paint Plant Rooms - Floor paint Plant Rooms - Railing Flat Roof @+41.725 - Waterproofing Flat Roof @+41.725 - Floor screeding Male/ Female Lax (G-M06, 07, 8 09) - Floor Finishes (Tiling Works) Male/ Female Lax (G-M06, 07, 8 09) - Vall (Furting + Tiling Works) Male/ Female Lax (G-M06, 07, 8 09) - Ceiling finish Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Remaining raised floor Customer LV Switch Room (G-M04) - Removable railing to MD6/1 Corridor (G-M19) - Floor finish (Epoxy) Corridor (G-M19) - Floor paint G-ST3 - Floor paint G-ST3 - Floor paint G-ST3 - Floor paint KCC5, MCC6, MCC7 - Remaining raised floor MCC5, MCC6, MCC7 - Remaining raised floor MCC5, MCC6, MCC7 - access stativay Chiler Plant & Pump Room (G-R08) - Floor finish (Epoxy) Chiler Plant & Pump Room (G-R08) - Floor finish (Epoxy) Chiler Plant & Pump Room (G-R08) - Floor floor surcound Flat Roof @61.250 - Waterproofing Flat Roof @61.250 - Floor Screeding Flat Roof @61. | 38 5 10 4 11 11 11 11 11 11 11 11 11 11 11 11 8 8 8 8 8 8 4 4 4 4 4 12 4 13 | 04Nov23 21Nov23 21Nov23 01Dec23 05Dec23 04Nov23 04Nov23 04Nov23 04Nov23 04Nov23 04Nov23 01Dec23 01Dec33 01Dec33 01Dec34 01Dec32 01ANov23 26Nov23 26Nov23 26Nov23 26Nov23 26Nov23 01Dec32 01Aoc33 26Nov23 26Nov23 01Aoc34 26Nov23 01Aoc34 01Aoc34 01Aoc34 <td>11-Dec.23 25-Nov23 30-Nov23 04-Dec.23 06-Dec.23 14-Nov23 23-Nov23 20-Nov23 11-Dec.23 11-Dec.23 11-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 05-Dec.23 04-Nov.23 04-Nov.23 08-Nov.23 15-Dec.23 15-Dec.23 16-Dec.23 18-Nov.23</td> <td>25Nov23 00-Dec-23 14-Nov-23 14-Nov-23 14-Nov-23 14-Nov-23 20-Nov-23 11-Dec-23 11</td> <td></td> <td></td> <td></td> <td></td> | 11-Dec.23 25-Nov23 30-Nov23 04-Dec.23 06-Dec.23 14-Nov23 23-Nov23 20-Nov23 11-Dec.23 11-Dec.23 11-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 03-Dec.23 05-Dec.23 04-Nov.23 04-Nov.23 08-Nov.23 15-Dec.23 15-Dec.23 16-Dec.23 18-Nov.23 | 25Nov23 00-Dec-23 14-Nov-23 14-Nov-23 14-Nov-23 14-Nov-23 20-Nov-23 11-Dec-23 11 | | | | |
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| O2_FPA 02900 | 27 - SCADA / Control System Checks | 30 | 10-Nov-23 | 09-Dec-23 | | 09-Dec-23 | |
| O2_FPA 02920 | 27 - SCADA / Control System - PSSR | 20 | 15-Nov-23 | 04-Dec-23 | | 04-Dec-23 | |
| O2_FPA 02940 | 27 - SCADA / Control System - SURI | 3 | 10-Dec-23 | 12-Dec-23 | | 12-Dec-23 | |
| O2_FPA 02960 | 27 - SCADA / Control System - RFSC | 0 | | 12-Dec-23 | | \$ 12-Dec-23 | |
| FPA - START-UP | | 60 | 21-Dec-23 | 18-Feb-24 | | | |
| O2_FPA 03000 | CHP Start-Up & Grid Testing | 60 | 21-Dec-23 | 18-Feb-24 | | | |
| O2_FPA 03100 | Waste Water Treatment | 45 | 02-Jan-24 | 15-Feb-24 | | | |
| O2_FPA 03200 | Granulation Start-Up | 50 | 25-Dec-23 | 12-Feb-24 | | | |
| FPA - PLANT OP1 | TIMISATION & TESTING | 7 | 19-Feb-24 | 25-Feb-24 | | | |
| O2_FPA 04000 | Performance Test | 4 | 19-Feb-24 | 22-Feb-24 | | | |
| O2_FPA 04100 | Issue Ready for Operation Certificate (RFOC) | 0 | 23-Feb-24 | | | | |
| O2_FPA 04200 | Plant Commissioning Report Issued | 3 | 23-Feb-24 | 25-Feb-24 | | | |
| O2_FPA 04300 | Completion of FPA | 0 | | 25-Feb-24 | | | |



File Name: WP_07 R4-1 Layout: ORRC2_WP_07.2023 R4-3M TASK filters: W7-3M, W7-3M1, WP7_R4. Date Printed: 30-Dec-23



Contract No. EP/SP/86/15 Organic Waste Treatment Facilities, Phase 2 3 Months Rolling Programme

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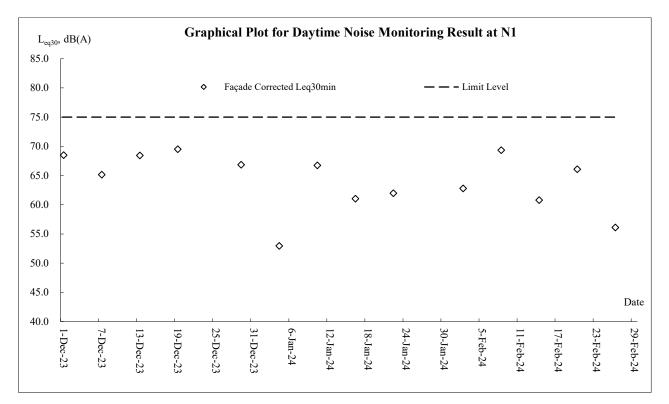


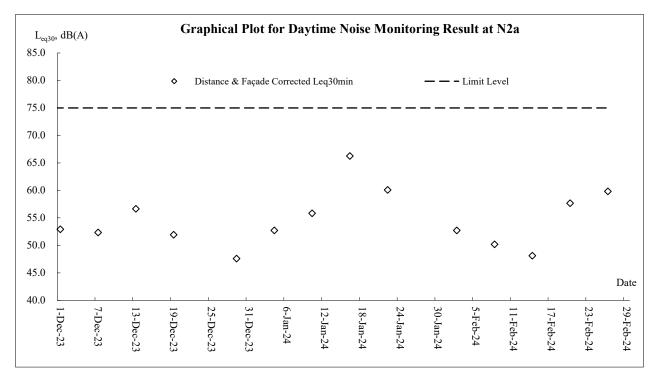
Appendix E

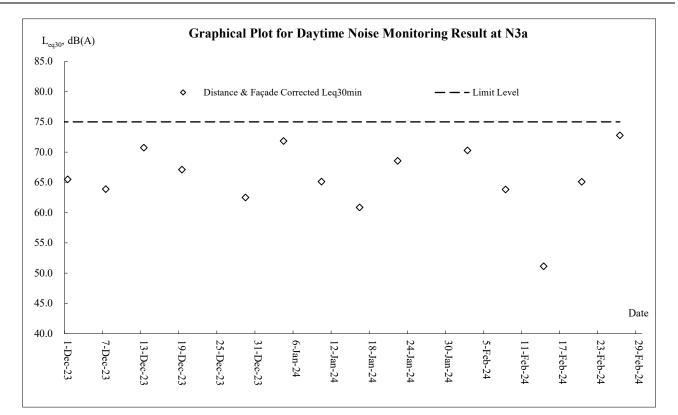
Graphical Plots of Monitoring Results



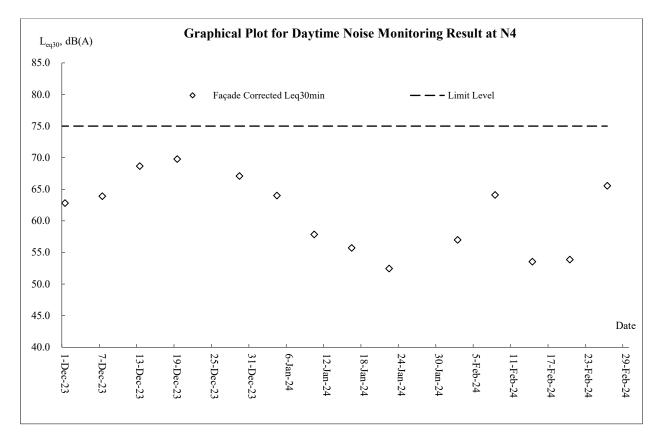
Construction Noise





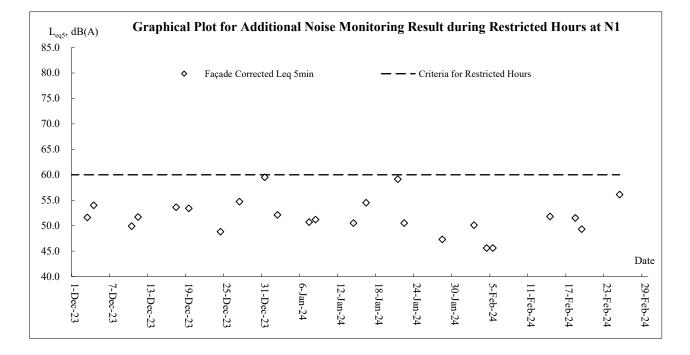


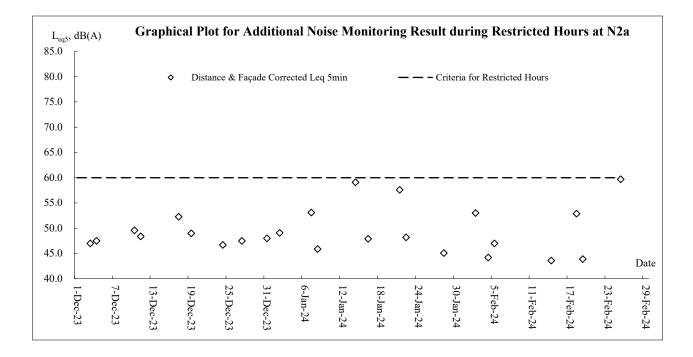
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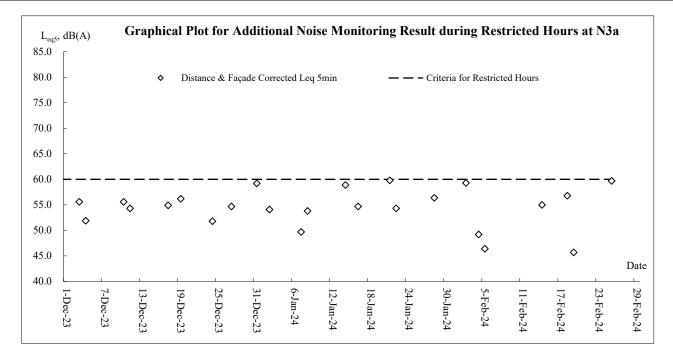


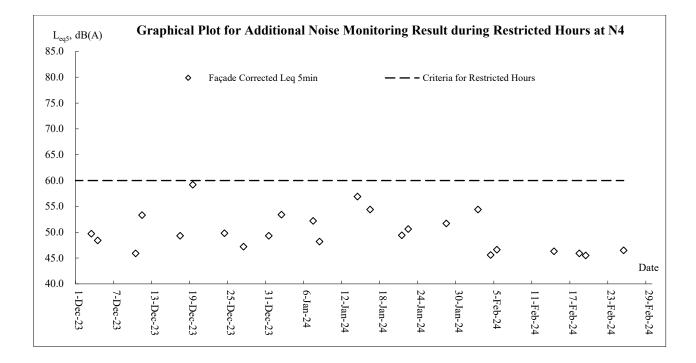
Additional Noise Monitoring













Appendix F

Meteorological Information



The weather of December 2023

With the northeast monsoon over the south China coast much weaker than normal, the weather of Hong Kong was exceptionally warm in the first half of December 2023. While Hong Kong was affected by an intense winter monsoon in the second half of the month, December 2023 was still overall warmer than usual in Hong Kong. The monthly mean temperature of 19.1 degrees was 0.9 degrees above the normal figure of 18.2 degrees and one of the ninth highest on record for December. The month was also much drier than usual with a total rainfall of 0.9 millimetres, only about 3 percent of the normal figure of 28.8 millimetres. The annual total rainfall of 2 774.5 millimetres was about 14 percent above the annual normal of 2 431.2 millimetres.

The weather of January 2024

With the northeast monsoon over Guangdong generally weaker than normal for most of the time in the month, despite a few cold interludes, January 2024 was overall warmer than usual in Hong Kong. The monthly mean temperature was 17.0 degrees, 0.5 degrees above the normal of 16.5 degrees. The month was also drier than usual. The monthly total rainfall was 18.2 millimetres, about 45 percent below the normal figure of 33.2 millimetres.

The weather of February 2024

Under the influence of a humid maritime airstream, the weather of Hong Kong was foggy with a few light rain patches in the morning and at night on the first two days of the month. The visibility in the harbour fell to below 1000 metres on the night of 1 February. It was also warm with sunny periods during the day on these two days. A fresh easterly airstream affected Hong Kong on 3 February and there was coastal mist in the morning and sunny intervals during the day. The weather was mainly cloudy with a few rain patches and coastal fog the next day. The visibility at Waglan Island once fell to around 200 metres.



Appendix G

Waste Flow Table

Monthly Summary Waste Flow Table for 2023

Version: 0

| | Ac | tual Quantiti | ies of Inert C | &D Materials | Generated M | onthly | Act | ual Quantity o | f C&D Waste | es Generated M | onthly |
|------------------------|--------------------------------|--|------------------------------|---|-------------------------------|---------------|-------------|---|---------------------------------|-------------------|----------------------------------|
| Month | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects (see Note 10) | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging (see Notes 4) | Plastics (see Notes 2 &4) | Chemical Waste | Others, eg. general refuse |
| | (in '000m3) | (in '000m3) | (in '000m3) | (in '000m3) | (in '000m3) | (in '000m3) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000m3) |
| sub-total up to 2022 | 98.401 | 0.000 | 0.000 | 83.508 | 14.660 | 0.233 | 337.486 | 1.250 | 0.700 | 0.000 | 3.497 |
| Jan-23 | 0.314 | 0.000 | 0.000 | 0.000 | 0.314 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.136 |
| Feb-23 | 0.932 | 0.000 | 0.000 | 0.000 | 0.932 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.059 |
| Mar-23 | 0.644 | 0.000 | 0.000 | 0.000 | 0.644 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.131 |
| Apr-23 | 0.633 | 0.000 | 0.000 | 0.000 | 0.633 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.103 |
| May-23 | 0.779 | 0.000 | 0.000 | 0.000 | 0.779 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.104 |
| Jun-23 | 0.329 | 0.000 | 0.000 | 0.000 | 0.329 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.113 |
| Sub total (since 2019) | 102.032 | 0.000 | 0.000 | 83.508 | 18.291 | 0.233 | 337.486 | 1.250 | 0.700 | 0.000 | 4.143 |
| Jul-23 | 0.098 | 0.000 | 0.000 | 0.000 | 0.098 | 0.000 | 0.000 | 0.100 | 0.000 | 0.000 | 0.207 |
| Aug-23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.150 | 0.000 | 0.000 | 0.098 |
| Sep-23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.052 |
| Oct-23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.057 |
| Nov-23 | 0.052 | 0.000 | 0.000 | 0.000 | 0.052 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.075 |
| Dec-23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.117 |
| Total (since 2019) | 102.182 | 0.000 | 0.000 | 83.508 | 18.441 | 0.233 | 337.486 | 1.500 | 0.700 | 0.000 | 4.750 |

Monthly Summary Waste Flow Table for 2024

Version: 0

| | Ac | tual Quantiti | es of Inert C | &D Materials | Generated M | onthly | Act | tual Quantity o | f C&D Waste | es Generated M | onthly |
|------------------------|--------------------------------|--|------------------------------|---|-------------------------------|---------------|-------------|---|---------------------------------|-------------------|----------------------------------|
| Month | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects (see Note 10) | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging (see Notes 4) | Plastics (see Notes 2 &4) | Chemical Waste | Others, eg. general refuse |
| | (in '000m3) | (in '000m3) | (in '000m3) | (in '000m3) | (in '000m3) | (in '000m3) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000m3) |
| sub-total up to 2023 | 102.182 | 0.000 | 0.000 | 83.508 | 18.441 | 0.233 | 337.486 | 1.500 | 0.700 | 0.000 | 4.750 |
| Jan-24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.112 |
| Feb-24 | 0.060 | 0.000 | 0.000 | 0.000 | 0.060 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.172 |
| Mar-24 | | | | | | | | | | | |
| Apr-24 | | | | | | | | | | | |
| May-24 | | | | | | | | | | | |
| Jun-24 | | | | | | | | | | | |
| Sub total (since 2019) | 102.242 | 0.000 | 0.000 | 83.508 | 18.501 | 0.233 | 337.486 | 1.500 | 0.700 | 0.000 | 5.034 |
| Jul-24 | | | | | | | | | | | |
| Aug-24 | | | | | | | | | | | |
| Sep-24 | | | | | | | | | | | |
| Oct-24 | | | | | | | | | | | |
| Nov-24 | | | | | | | | | | | |
| Dec-24 | | | | | | | | | | | |
| Total (since 2019) | 102.242 | 0.000 | 0.000 | 83.508 | 18.501 | 0.233 | 337.486 | 1.500 | 0.700 | 0.000 | 5.034 |



Appendix H

Environmental Mitigation Implementation Schedule (Extracted from EM&A Manual)

| | | | | | Imp | lementa | ation St | age ¹ | |
|-------------|--------------|--|---|-------------------------|-----|---------|----------|------------------|--|
| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| Air Quali | ity Impact | (Construction) | | | | | | | |
| 3.8.1.1 | 2.4 | General Dust Control Measures Dust emissions could be suppressed by regular water spraying on site. In general, water spraying twice a day could reduce dust emission from active construction area by 50%. However, for the Project more frequent water spraying is proposed. Watering eight times per day, or once every 1.5 hours, is suggested at all active works areas in order to achieve a higher dust suppression efficiency of 87.5%. | Within construction site / Duration of the construction phase | Contractor | | ~ | | | EIA Recommendation and Air Pollution Control (Construction Dust) Regulation |
| 3.8.1.2 | 2.4 | Best Practice For Dust Control The relevant best practices for dust control as stipulated in the <i>Air Pollution Control (construction Dust) Regulation</i> should be adopted to further reduce the construction dust impacts of the Project. These best practices include: <i>Good Site Management</i> Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain a high standard of housekeeping to prevent emissions of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. <i>Disturbed Parts of the Roads</i> Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or Unpaved parts of the road should be sprayed with water or a | Within construction site / Duration of the construction phase | Contractor | | ✓ | | | EIA Recommendation and Air Pollution Control (Construction Dust) Regulation |

AUES

| | | | | | Imp | Implementation Stage ¹ | | | | |
|------------|--------------|---|---|-------------------------|-----|-----------------------------------|----|-----|---|--|
| IA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation 8 Guidelines | |
| | | surface wet. | | • | | | | | | |
| | | Exposed Earth | | | | | | | | |
| | | Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. | | | | | | | | |
| | | Loading, Unloading or Transfer of Dusty Materials | | | | | | | | |
| | | All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. | | | | | | | | |
| | | Debris Handling | | | | | | | | |
| | | Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. | | | | | | | | |
| | | Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. | | | | | | | | |
| | | Transport of Dusty Materials | | | | | | | | |
| | | Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. | | | | | | | | |
| | | Wheel washing | | | | | | | | |
| | | Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. | | | | | | | | |
| | | Use of vehicles | | | | | | | | |
| | | The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. | | | | | | | | |
| | | Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. | | | | | | | | |
| | | Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely | | | | | | | | |



| | | | | | Imple | ementa | tion St | age ¹ | |
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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. | | | | | | | |
| | | Site hoarding | | | | | | | |
| | | Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. | | | | | | | |
| Air Qua | lity Impact | (Operation) | | | | | | | |
| 3.8.2 | 2.3 | Odour patrol at site boundary of the Project | Site boundary / During operation stage (the need to continue the odour patrol after the end of the 2-year monitoring period would depend on the monitoring results and should be agreed with EPD) | OWTF Operator | ✓ | | ~ | | EIAO-TM |
| 3.8.2 | 2.4 | Install gas cleaning equipment and stack on the CHP and odour treatment unit | CHP and odour treatment unit | Design Consultant / OWTF Operator | ~ | | ~ | | EIA Recommendation |
| | | The preliminary design suggests the use of a two stage process involving either a biofilter or Ultraviolet Light (UV-C) together with ozone treatment as the first stage, and an activated carbon filter as the second stage for the odour treatment unit. It is recommended to install the UV-C and ozone treatment system with second stage active carbon filters as this has a lower footprint requirement than the biofilter option. However, the actual unit installed depends on the final design by the contractor in the design phase. | | | | | | | |
| | | The preliminary design incorporates a combination of thermal and catalytic treatment processes to remove pollutants from the exhaust gasses from the CHP. | | | | | | | |
| | | Both the odour treatment unit and the CHP emissions are suggested to be directed to a flue to aid the dispersion and minimise effects on ASRs. | | | | | | | |

| | | | | | Imp | lementa | ation S | tage ¹ | • |
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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| 4.9 | 3.2 | The HA has assumed that the following "Good Practices" and "recommended design measures" for the safe operation of OWTF 2 shall be carried out as far as reasonably practicable: | During design and operation phases | Design Consultant / OWTF Operator | ~ | | ~ | | EIAO & EIAO TM Annex 4 |
| | | The process plant building will be provided with adequate number of gas detectors distributed over the various areas of potential leak sources to provide adequate coverage. | | | | | | | |
| | | All electrical equipment inside the building will be classified in accordance with the electrical area classification requirements. No unclassified electrical equipment will be used during operations or maintenance. | | | | | | | |
| | | Reference can be made to Codes of Practice and guidance issued in Europe that applies to places where explosive atmospheres may occur (called 'ATEX' requirements). These are covered as part of the European Directive: the Explosive Atmospheres Directive (99/92/EC) and the UK regulations, Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR). Where potentially explosive atmospheres may occur in the workplace, the requirements include, identifying and classifying (zoning) areas where potentially explosive atmospheres may occur; avoiding ignition sources in zoned areas, in particular those from electrical and mechanical equipment; where necessary, identifying the entrances to zoned areas; providing appropriate anti-static clothing for employees; and before they come into operation, verifying the overall explosion protection safety of areas where explosive atmospheres may occur. | | | | | | | |
| | | All safety valves design shall take into account discharging any released fluid to a safe location, or stopping misdirection of fluid flows in order to avoid hazardous outcome. | | | | | | | |
| | | Safety markings and crash barriers will be provided to the aboveground piping, digesters and the gas holder near the entrance. | | | | | | | |
| | | Lightning protection installations will be installed following IEC 62305, BS EN 62305, AS/NZS 1768, NFPA 780 or equivalent standards. | | | | | | | |
| | | A 10m high boundary wall with fire resistance will be | | | | | | | |



| | | | | | Imp | lementa | tion St | age ¹ | |
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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | provided in the vicinity of the digester tanks, gasholders and gas purification equipment to protect the equipment against external fires, and to provide some protection to external areas from the effects of fire/explosion. | | | | | | | |
| | | Suitable fire extinguishers will be provided within the site. An External Water Spray System (EWSS) will be installed in appropriate areas, such as around the gasholders, gas purification, desulphurisation units, and digester areas. The facilities will also be equipped with fire and gas detection system and fire suppression system. Stringent procedures are implemented to prohibit smoking or naked flames to be used on-site. | | | | | | | |
| | | Fixed crash barriers will be provided in areas where process equipment is adjacent to the internal roadway to protect against vehicle collision. Adequate warning signage and lighting will also be provided and maximum speed limit will also be in place. | | | | | | | |
| Noise I | mpact (Con | struction) | | , | | • | • | • | • |
| 5.9.1 | 4.2.7 | Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction: | Within construction site / During construction phase | Contractor | | ~ | | | EIAO, EIAO-TM and Noise Contro Ordinance |
| | | only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; | | | | | | | |
| | | machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; | | | | | | | |
| | | plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; | | | | | | | |
| | | mobile plant should be sited as far away from NSRs as possible; and | | | | | | | |
| | | material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site | | | _ | | | | |



| | | | | | Imp | lementa | ation St | age ¹ | |
|-------------|--------------|---|---|-------------------------|-----|---------|----------|------------------|---|
| EIA Ref. | EM&A Ref. | | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | • | construction activities. | | | • | | • | • | |
| 5.9.1 | 4.2.7 | Selection of Quieter PME | Within construction site / | Contractor | • | ~ | • | | EIAO, EIAO-TM |
| | | The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and British Standard, namely <i>Noise Control on Construction and Open</i> <i>Sites, BS 5228: Part 1: 2009</i> . It should be noted that the silenced PME selected for assessment can be found in Hong Kong. | During construction phase | | | - | | | and Noise Control Ordinance |
| 5.9.1 | 4.2.7 | Use of Movable Noise Barriers Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked. | Within construction site / During construction phase | Contractor | | ~ | | | EIAO, EIAO-TM and Noise Control Ordinance |
| 5.9.1 | 4.2.7 | Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and generator. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No.9/2010. | Within construction site / During construction phase | Contractor | | ~ | | | EIAO, EIAO-TM and Noise Control Ordinance |
| 5.9.1 | 4.2.7 | Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR- 127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric. | Within construction site / During construction phase | Contractor | | √ | | · | EIAO, EIAO-TM and Noise Control Ordinance |
| Noise Ir | npact (Ope | ration) | | | | | | | |
| 5.9.2 | 4.2.7 | Fixed Plant Noise | Within construction site / | Design Consultant | ~ | | ~ | • | EIAO, EIAO-TM |
| | | Specification of the maximum allowable sound power levels of the proposed fixed plants should be followed. The following noise reduction measures should be considered as far as practicable during operation: | During operation phase / Throughout operation phase | / Contractor | - | | | | and Noise Control Ordinance |
| | | Choose quieter plant such as those which have been effectively silenced; | | | | | | | |



| | | | | | Imp | lementa | tion S | tage ¹ | |
|-------------|--------------|---|---|-------------------------|-----|--------------|--------|-------------------|---|
| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | · | Include noise levels specification when ordering new plant (including chillier and E/M equipment); | | | | | | | |
| | | Locate fixed plant/louver away from any NSRs as far as practicable; | | | | | | | |
| | | Locate fixed plant in walled plant rooms or in specially designed enclosures; | | | | | | | |
| | | Locate noisy machines in a completely separate building; | | | | | | | |
| | | Install direct noise mitigation measures including silencers, acoustic louvers and acoustic enclosure where necessary; and | | | | | | | |
| | | Develop and implement a regularly scheduled plant maintenance programme so that equipment is properly operated and serviced in order to maintain a controlled level of noise. | | | | | | | |
| Water G | uality Impa | act (Construction) | • | • | | | | | • |
| 6.8.1.1 | 5.3 | Construction site runoff | Within construction site / | Contractor | | \checkmark | | | ProPECC Note |
| | | The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts: | Duration of the construction phase | | | | | | PN 1/94 |
| | | 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, 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 should be undertaken by the Contractor prior to the commencement of construction; | | | | | | | |
| | | Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt | | | | | | | |



| | | | · | · | Imp | lementa | tion St | age ¹ | · |
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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction. | | | | | | | |
| | | All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. | | | | | | | |
| | | Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. | | | | | | | |
| | | All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. | | | | | | | |
| | | Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. | | | | | | | |
| | | Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into | | | | | | | |

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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | foul sewers. | | | | | | | |
| | | Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. | | | | | | | |
| | | Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. | | | | | | | |
| 6.8.1.2 | 5.3 | General construction activities | Within construction site / | Contractor | | \checkmark | | | ProPECC Note |
| | | Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. | During construction phase | | | | | | PN 1/94 |
| 6.8.1.3 | 5.3 | Excavation works | Within construction site / | Contractor | | \checkmark | | | ProPECC Note |
| | | The construction programme should be properly planned to minimise excavation works during the wet season (April to September), temporarily exposed slope/soil surfaces should be covered by a tarpaulin or other means, as far as practicable. Interception channels should be provided (e.g. along the crest/edge of the excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should be in place to ensure that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm. Other measures that need to be implemented before, during and after rainstorms are summarized in ProPECC PN 1/94. | During construction phase | | | | | | PN 1/94 |
| 6.8.1.4 | 5.3 | Accidental spillage The Contractor should register as a chemical waste producer | Within construction site / During construction phase | Contractor | | ~ | | | ProPECC Note PN 1/94 and Waste Disposa |



| | | | | | Imple | Implementation Stage ¹ | | | |
|-------------|--------------|--|---|-------------------------|-------|-----------------------------------|----|-----|---|
| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | if chemical wastes are 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. | | | | | | | Ordinance |
| | | Maintenance of vehicles and equipment, involving activities with potential for leakage and spillage, should only be undertaken within areas appropriately equipped to control these discharges. | | | | | | | |
| | | Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. | | | | | | | |
| | | Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: | | | | | | | |
| | | Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. | | | | | | | |
| | | Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. | | | | | | | |
| | | Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. | | | | | | | |
| 6.8.1.5 | 5.3 | Sewage effluent from construction workforce Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be | Within construction site / During construction phase | Contractor | | ~ | | | ProPECC Note PN 1/94 |



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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | responsible for appropriate disposal and maintenance. | | | | | | | |
| Water G | uality Impa | act (Operation) | | | • | | | | |
| 6.8.2.1 | 5.3 | Sewage effluent and sewerage impact | Within construction site / | Design Consultant | \checkmark | | \checkmark | | EIA |
| | | In order to minimise the risk of exceeding capacity of the sewerage system, on-site underground storage of effluent is recommended for the OWTF 2, with a capacity of 6 hours of peak flow. Using the values presented in the preliminary design, the on-site storage required to buffer excess capacity would be equivalent to 30 m ³ . A below ground effluent retention tank would function to store effluent produced during peak periods when usage of the Sha Ling pumping station is high. Effluent stored during such periods could then be pumped out of the retention tank and discharged into the public sewer during off-peak times when capacity is sufficient. | During design and operation phase | / OWTF Operator | | | | | recommendation |
| 6.8.2.2 | 5.3 | Wastewater generation from organic waste treatment processes | as se TF | Design Consultant / OWTF Operator | \checkmark | • | √ | | TM-DSS, Water Pollution Control Ordinance |
| | | Wastewater must be collected and diverted to the wastewater treatment plant (WWTP). | | · | | | | | |
| | | An adequately sized WWTP with technologies such as membrane bioreactor, reverse osmosis or multi-phase separation process or system should be provided for the OWTF 2. Polluting parameters in the effluent should be in compliance with the requirements as specified in the TM-DSS. | | | | | | | |
| | | Leachate from the waste reception and composting process | | | | | | | |
| | | A drainage system will be provided at the reception area connecting to the proposed onsite WWTP. The leachate would be treated in the WWTP and there would be no direct discharge of leachate. | | | | | | | |
| | | Dewatering of the digestate from the separators | | | | | | | |
| | | The wastewater generated from the dewatering of digestate from the digesters is expected to be around 229.18 m³/day and a peak flow of 5.31L/s. The on-site WWTP will deploy suitable treatment process in order to reduce the pollution level to an acceptable standard. The effluent shall be treated according to the TM-DSS standard before discharging to foul sewers. | iy iy n id | | | | | | |



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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | Condensate from biogas drying, odour treatment and ventilation system | | | | | | | |
| | | Condensate from biogas handling and wastewater from the odour treatment process would be collected and transferred to the WWTP. There is no direct discharge of wastewater to the sewer. | | | | | | | |
| | | Washing of waste delivery trucks | | | | | | | |
| | | Surplus wastewater generated from the vehicle washing facilities would be collected and transferred to the WWTP for further treatment before discharging to the foul sewer. | | | | | | | |
| | | Untreated wastewater from wastewater treatment plant | | | | | | | |
| | | Maintenance of the WWTP and its connection pipe work would be conducted regularly to confirm the condition of the holding tank and pipes. This will ensure early detection of any damage for repair or replacement. | | | | | | | |
| | | Leakage of materials from WWTP | | | | | | | |
| | | Regular scheduled maintenance of the WWTP will be carried out to confirm the condition of the facility and detect any damages at an early stage for repair or replacement. | | | | | | | |
| 6.8.2.3 | 5.3 | Contaminated stormwater runoff and accidental spillages | Within construction site / | OWTF Operator | | | \checkmark | | TM-DSS; Water |
| | | Regular maintenance of plant facilities, as recommended in Section 6.8.2.2 of the EIA report, will be performed to confirm the condition of plant facilities and detect any damage for repair or replacement. Training should be provided to the employees on handling accidental spillage, so that in such cases, actions can be carried out quickly to avoid runoff to nearby streams/drains. | During operation phase / Throughout operation phase | | | | | | Pollution Control Ordinance |
| Waste M | lanagemen | t Implications (Construction) | | | | | | | |
| 7.6.1.1 | 6.3 | Good Site Practices | Project construction site / | Contractor | | \checkmark | | | Waste Disposal |
| | | Recommendations for good site practices during the construction activities include: | Throughout construction stage / Until completion | | | | | | Ordinance; Regulation and |
| | | Obtain the relevant waste disposal permits from appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); | al | | | | | | the Land (Miscellaneous Provisions) Ordinance; |



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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | Provide staff training for proper waste management and chemical handling procedures; Provide sufficient waste disposal points and regular waste collection; Provide appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; Separate chemical wastes for special handling and disposal | | | | | | | Waste Disposal (Chemical Wastes) (Genera Regulation; Technical Circula (Works) No. 19/2005 Environmental Management on Construction Site |
| | | to licensed facilities for treatment; and | | | | | | | |
| | 6.3 | Employ licensed waste collectors to collect waste. | , | | | | | | |
| | | Recommendations to achieve waste reduction include: Design foundation works to minimise the amount of excavated material to be generated; Provide training on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; Sort demolition debris and excavated materials from demolition works to recover reusable/recyclable portions Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force Plan the use of construction materials carefully to minimise amount of waste | Throughout construction stage / Until completion of all construction activities | | | | | | Ordinance |
| 7.6.1.3 | 6.3 | Excavated and C&D Materials In order to minimise impacts resulting from collection and transportation of C&D material for off-site disposal, the | Project construction site / Throughout construction stage / Until completion | Contractor | √ | ✓ | | | Waste Disposal Ordinance ; DEVB Technical |

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| | | excavated materials should be reused on-site as fill material as backfilling material and for landscaping works far as practicable. Other mitigation requirements are: | of all construction activities | | • | • | | • | Circular (Works) No.6/2010 for Trip Ticket System for |
| | | A Waste Management Plan (WMP), which becomes part of the Environmental Management Plan (EMP), should be prepared in accordance with ETWB TC(W) No.19/2005; | | | | | | | Disposal of Construction & Demolition Materials: |
| | | A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) should be adopted for easy tracking; and | | | | | | | Technical Circular (Works) No. 19/2005 |
| | | In order to monitor the disposal of excavated and non-inert C&D material at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to DEVB TC(W) No. 6/2010). | | | | | | | Environmental Management on Construction Site |
| 7.6.1.4 | 6.3 | Chemical Waste | Project construction site / | Contractor | | \checkmark | | | Code of Practice |
| | 6.3 | 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 | e, Throughout construction a stage / Until completion of all construction activities ls ls ls ls ls ls ls ls ls ls ls ls ls | | | · | | | on the Packaging Labelling and Storage of Chemical Wastes; |
| | | 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 licensed collector to transport and dispose of the chemical wastes, to either the CWTC in Tsing Yi, or any other licensed facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. | | | | | | | Waste Disposal (Chemical Waste) (General) Regulation |
| 7.6.1.5 | 6.3 | General Refuse General refuse should be stored in enclosed bins or compaction units separated from excavated and non-inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material. | Project construction site / Throughout construction stage / Until completion of all construction activities | Contractor | | ~ | | | Waste Disposal Ordinance and Public Health and Municipal Services Ordinance - Public Cleansing and Prevention of Nuisances |



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| | | · · · · · · · · · · · · · · · · · · · | | | | | | | Regulation | |
| Waste M | • | t Implications (Operation) | | | | | | | | |
| 7.6.2.1 | 6.3 | Good site practices | Construction site / On a | OWTF Operator | | | \checkmark | | Waste Disposal | |
| | | Adoption of the following good operational practices should be recommended to minimise waste management impacts: | regular basis / Throughout operation stage | | | | | | Ordinance; Waste Disposal | |
| | | Obtain the necessary waste disposal permits from the appropriate authorities, in accordance with the Waste | Slage | | | | | | (Chemical Waste) (General); | |
| | | Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation and the Land (Miscellaneous Provision) Ordinance (Cap. 28); | ous | | | | | | Regulation and the Land (Miscellaneous | |
| | | Nomination of an approved person to be responsible for good site practice, arrangements for collection and effective | | | | | | | Provision) Ordinance; | |
| | | disposal to an appropriate facility of all wastes generated at the site; | | | | | | | DEVB Technical Circular (Works) | |
| | | Use of a waste haulier licensed to collect specific category of waste; | | | | | | | No. 6/2010. | |
| | | A trip-ticket system should be included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of solid wastes at public filling facilities and landfills, and to control fly tipping. Reference should be made to DEVB TC(W) No. 6/2010. | | | | | | | | |
| | | Training of site personnel in proper waste management and chemical waste handling procedures; | | | | | | | | |
| | | Separation of chemical wastes for special handling and appropriate treatment at a licensed facility; | ge | | | | | | | |
| | | Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors; | | | | | | | | |
| | | Provision of sufficient waste disposal points and regular collection for disposal; | | | | | | | | |
| | | Adoption of appropriate measures to minimise windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers; and, | | | | | | | | |
| | | Implementation of a recording system for the amount of | | | | | | | | |



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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | • | wastes generated, recycled and disposed of (including the disposal sites). | | | | | | | |
| 7.6.2.2 | 6.3 | Waste reduction measures | Construction site / On a | OWTF Operator | | | \checkmark | | Waste Disposal |
| | | Adoption of the following good operational practices should be recommended to ensure waste reduction: | regular basis / Throughout operation | | | | | | Ordinance; Waste Disposal |
| | | 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; | stage | | | | | | (Chemical Waste) (General); Regulation and |
| | | Encourage collection of aluminium 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 | by be ral nal | | | | | | the Land (Miscellaneous Provision) Ordinance |
| | | Any unused chemicals or those with remaining functional capacity should be reused as far as practicable. | | | | | | | |
| 7.6.2.3 | 6.3 | Waste generated from pre-treatment process Wastes generated from pre-treatment process should be recycled as far as possible. Wastes generated from pre- treatment process should also be separated from any chemical waste and stored in covered skips. The recyclables should be collected by licensed collectors, while the rest of the waste should be removed from the site on a daily basis to minimise odour, pest and litter impacts. Open burning must be strictly prohibited. | Pre-treatment process / Throughout operation stage | OWTF Operator | | | ~ | | Waste Disposal (Chemical Waste) (General) |
| 7.6.2.4 | 6.3 | Chemical Waste Chemical waste generated from machinery maintenance and servicing should be managed in accordance with the Code of Practice on the Packaging, Labelling and storage of Chemical Wastes under the provisions of Waste Disposal (Chemical Waste) (General) Regulation. The chemical waste should be collected by drum-type containers and, when transported off-site, removed by licensed chemical waste contractors. Alternatively, some of the chemical waste may be retained on-site for re-use by the Project in the manufacture of biogas or other products, subject to their composition being confirmed as suitable for such application. | Construction site Throughout operation stage | OWTF Operator | | | ~ | | Code of Practice on the Packaging Labelling and Storage of Chemical Wastes; Waste Disposal (Chemical Waste) (General) Regulation |



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| | | Plant / equipment maintenance schedules should be planned in order to minimise the generation of chemical waste. | | | | | | • | |
| | | Non-recyclable chemical wastes and lubricants should be disposed of at appropriate facilities, such as CWTC. Copies or counterfoils from collection receipts issued by the licensed waste collector should be kept for recording purpose. | | | | | | | |
| | | Recyclable chemical waste will be transported off-site for treatment by a licensed collector. The Contractor will need to register with EPD as a chemical waste producer. | | | | | | | |
| 7.6.2.5 | 6.3 | General Refuse | Construction site / On a | OWTF Operator | | | \checkmark | | Waste Disposa |
| | | Waste generated in site offices should be reduced through segregation and collection of recyclables. To promote the recycling of wastes such as used paper, aluminium cans and plastic bottles, it is recommended that recycling bins should be clearly labelled and placed at locations with easy access. For the collection of recyclable materials, they should be collected by licensed collectors. | regular basis / Throughout operation stage | | | | | | Ordinance |
| | | General refuse, other than segregated recyclable wastes, should be separated from any chemical waste and stored in covered skips. The general refuse should be removed from the site on a daily basis to minimise odour, pest and litter impacts. Also, open burning of refuse must be strictly prohibited. | | | | | | • | |
| Ecologi | cal Impact | (Construction) | | | | | | | |
| 8.7 | 7.3 | For precautionary purposes and to further ensure that no wild flora species of conservation interest will be affected, prior to commencement of any construction works, it is recommended to conduct a detailed vegetation survey as baseline monitoring to update the exact locations, number and condition of individuals of <i>Aquilaria sinensis</i> and any other floral species of conservation interest within the Project Area. A Vegetation Survey Report summarizing the findings and recommendations of the detailed vegetation survey should be prepared and submitted to AFCD for approval no later than one month prior to commencement of construction works. | Before Project commencement | OWTF Operator | ~ | | | | EIAO-TM |
| 8.7 | 7.3 | During construction phase, erection of a temporary protective | Throughout construction | OWTF Operator | | ✓ | | | EIAO-TM |
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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | fence along the plantation area where trees and vegetation, including those of conservation concern identified under the detailed vegetation survey, would be retained within the Project Area is recommended for precautionary purposes to avoid any potential impact from construction activities such as vehicle movement and materials storage. Establishment of the protective fence could also raise the awareness of personnel to be present and protection of the plants. While the protective fence should be properly maintained, monitoring of individuals of <i>Aquilaria sinensis</i> and any other floral species of conservation interest identified in the detailed vegetation survey during construction phase on a monthly basis should be conducted to make sure that they are not affected by the construction works of the Project. | stage | | | | | | |
| Ecologic | cal Impact (| Operation) | | · | | | | | |
| | | No mitigation measure is required. | | | | | | | |
| Landsca | pe and Vis | ual Impact (Construction) | | | | | | | |
| Table 10.7 (CP1) | Table 8.1 (CP1) | Preservation of Existing Vegetation The development proposals would avoid disturbance to the existing trees as far as practicable within the confines of the development site. A preliminary tree survey has been undertaken to establish the existing resources. A tree survey review with formal tree removal application will be submitted to the relevant government departments for approval in accordance with ETWB TC(W) 03/2006 Tree Preservation, during the detailed design phase of the Project. Based on the preliminary findings it would be possible to retain 441 of the existing trees. If possible, all trees which are not in conflict with the proposals would be retained and shall be protected through the means of fencing, where appropriate, to prevent potential damage to tree canopies and root zones from vehicles and materials storage. Specifications for the protection of existing trees will be circulated to the relevant government authorities for approval together with the formal tree removal application. | Construction site / Throughout construction stage / Until completion of all construction activities | Contractor | ~ | ~ | | | Technical Circula (Works) No. 3/2006 |
| Table 10.7 (CP2) | Table 8.1 (CP2) | Control of site construction activities Storage of materials should be carefully arranged to minimise potential landscape and visual impact. | Construction site / Throughout construction stage / Until completion | Contractor | \checkmark | \checkmark | | | EIAO-TM |



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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines | |
| | | The location and appearance of site accommodation should be carefully designed to minimise potential landscape and visual impact. | of all construction activities | | | | | | | |
| | | Site lighting should be carefully designed to prevent light spillage, | | | | | | | | |
| | | Extent of the works area and construction period should be minimised as far as practicable. | | | | | | | | |
| | | Screen hoarding with compatible design to blend into the surrounding natural environmental should be considered. | | | | | | | | |
| | | Temporary works areas should be reinstated at the earliest possible opportunity. | | | | | | | | |
| Table 10.7 (CP3) | Table 8.1 (CP3) | Transplantation of existing trees Under current proposal, no tree is recommended to be transplanted since the trees in conflict with the proposed works are not suitable to be transplanted. However, should transplantation be proposed in the detailed design stage after an update tree survey, the recommended final recipient sites should be adjacent to their current locations. Enough time should be reserved for tree transplantation works to increase the survival rate of the transplanting trees. To ensure the survival of transplanted trees, protection work should be considered. The tree transplantation proposal will be submitted to relevant authorities for approval together with the formal tree removal application. | Construction site / Throughout construction stage / Until completion of all construction activities | Contractor | ~ | ~ | | | Technical Circula (Works) No. 3/2006 | |
| Landsca | pe and Vis | ual Impact (Operation) | | | | | | | | |
| Table 10.8 (OP1) | Table 8.2 (OP1) | Design of the Proposed OWTF OWTF will incorporate design features as part of design mitigation measures including | Construction site / During design stage | Design Consultant / OWTF Operator | ~ | | | | EIAO-TM | |
| | | Integrated design approach - the location of OWTF should be within the existing Livestock Waste Composting Plant, as far as technically feasible. The location and orientation of the OWTF should be away from landscape and visually sensitive areas such as ponds and woodlands. | | | | | | | | |
| | | Building massing – the proposed use of simple responsive design includes having specific height profile requirement | | | | | | | | |



| | ł | | | | Implementation Stage ¹ | | | | | |
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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines | |
| | | such as, single-storey, lower than the adjacent building structures, and avoiding large built structure for supporting facilities to reduce the intrusion of mass in the rural areas. | | | | | | | | |
| | | Treatment of built structures – the structural design should seek to reduce the apparent visual mass of the facilities further through the use of natural materials such as wooden frames or other sustainable materials such as recycled plastics. | | | | | | | | |
| | | Responsive building finishes – Natural tones should be considered for the colour palette for proposed structures. Non-reflective finishes are recommended on the outward facing building facades to reduce glare effect. | | | | | | | | |
| | | Responsive lighting design – Aesthetic design of architectural and lighting with following glare design measures: | | | | | | | | |
| | | Directional and full cut off lighting is recommended within the boundaries of OWTF to minimise light spillage to the surroundings; | | | | | | | | |
| | | Minimise geographical spread of lighting, only applying for safety at the key access points and staircases; and | | | | | | | | |
| | | Limited lighting intensity to meet the minimum safety and operation requirement. | | | | | | | | |
| Table | Table | Amenity / Compensatory Planting | Construction site / during | Design Consultant | \checkmark | | ~ | | Technical Circular | |
| 10.8 (OP2) | 8.2 (OP2) | Tree retention within the works area is considered to be important. New tree plantings will be concentrated in the proposed amenity areas along the boundaries of the site and along the exterior of OWTF buildings. Although a preliminary planting proposal is not yet available at the moment of producing this EIA Report, anticipated new tree planting within the Project site should be able to fully compensate for the loss of 14 trees proposed to be felled in terms of both quantity and quality. 441 existing trees will be retained through preserving them at their current locations. Establishment of newly planted trees is expected. Trees with high amenity value will be placed along the access routes to provide shade and soften the hard structures of OWFT buildings. Amenity plantings will utilise native tree species found on existing neighbouring slopes or | design and operation stage | / OWTF Operator | | | | | (Works) Nos. 7/2002 and 3/2006 | |



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| EIA Ref. | EM&A Ref. | Environmental Protection Measures | Location / Duration of measures / Timing of completion of measures | Implementation Agent | Des | Con | Ор | Dec | Relevant Legislation & Guidelines |
| | | woodland areas to improve the ecological connectivity between existing habitats and create a coherent landscape network. Tree species with aggressive roots should be avoided to prevent damage to OWTF buildings and structures. Trees with high or moderate amenity value and low to medium maintenance should be considered as part of landscape resource enhancement. Recommended tree species include <i>Celtis sinensis</i> and <i>Liquidambar formosana</i> . These proposals will be subjected to review at detail design stage of the Project. | | | | | | | |
| Table 10.8 (OP3) | Table 8.2 (OP3) | Treatment of Slopes In accordance with GEO Publication No. 1/2011 "Technical Guidelines on Landscape Treatment for Slopes", these engineering structures will be aesthetically enhanced through the use of soft landscape works including tree and shrub planting to give man-made slopes a natural appearance, blending into the natural landscape. Whip-sized plantings are preferred on the face of soil cut slopes, at the crest and toe of the slope and within berm planters. These smaller, younger plants can adapt to their new growing conditions quicker than larger sized stock and establish a naturalistic effect rapidly. Recommended tree species include <i>Mallotus paniculatus, Broussonetia papyrifera</i> and <i>Alangium chinense</i> . | Construction site / during design and operation stage | Design Consultant / OWTF Operator | √ | | ~ | | GEO Publication No. 1/2011 "Technical Guidelines on Landscape Treatment for Slopes |
| Table 10.8 (OP4) | Table 8.2 (OP4) | Amenity enhancement Rooftop greening and vertical greening to mitigate the visual impact of taller structures can soften the façade of OWTF structures. Frameworks utilised for vertical greening should appear naturalistic. | Construction site / during design and operation stage | Design Consultant / OWTF Operator | ~ | | ~ | | Technical Circular (Works) No. 7/2002 |

Remarks:

1. Des - Design Stage, C - Construction Stage, O - Operation, Dec - Decommissioning