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Independent Environmental Checker for Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities

Environmental Permit No. EP-488/2014/A

Monthly EM&A Report for December 2022 (Rev. 1)

12 January 2023

By Email

Dear Sir,

I refer to the Monthly EM&A Report for December 2022 (Rev. 1) under the captioned Project, which was certified on 12 January 2023 by the Environmental Team Leader appointed under Condition 2.1 of Environmental Permit No. EP-488/2014/A (hereafter referred to as "EP").

I hereby verify the abovementioned submission in accordance with EP Conditions 1.9 and 4.4.

Should you have any queries regarding the captioned or require any further information, please contact the undersigned at 2828 5751.

Yours faithfully

for MOTT MACDONALD HONG KONG LIMITED

0 8

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Contract No. DC/2019/07

Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and **Disposal Facilities**

17th Monthly Environmental Monitoring and Audit Report -**December 2022**

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EXECUTIVE SUMMARY

- A.1 Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection (DEP) granted the Environmental Permit (No. EP-488/2014/A) to DSD for the Project.
- A.2 Upon the requirement of the Environmental Permit (EP), the Monthly EM&A Monitoring Report shall be submitted to the DEP within 10 working days after the end of the reporting month. The submissions shall be verified by the Independent Environmental Checker (IEC) and complied with the requirements set out in the Environmental Monitoring and Audit (EM&A) Manual before submission to the DEP as stipulated in Condition 4.4 of the EP.
- A.3 The commencement date of the Project was 6 August 2021. Impact environmental monitoring of 24-hour TSP, 1-hour TSP and noise was conducted as stipulated in Condition 4.2 of the EP. This is the 17th Monthly EM&A Report for the Project summarizing the monitoring results and audit findings of the EM&A programme at selected locations at and around Cheung Chau during the reporting period from 1 December to 31 December 2022.
- A.4 Key activities carried out in this reporting period for the Project included the followings:
 - Trial pit and ground investigation
 - Smart sewage monitoring
 - Pre-bored Works for Sheet Piles Installation for Subsequent ELS at CCSTW
 - Repair Works for Existing Sludge Ramp
 - Excavation and Lateral Support (ELS) at CCSTW
 - Mechanical Installation Works of Pak She Sewage Pumping Station
 - Construction of Superstructure of LV Main Switch Room and Transformer Room at CCSTW
 - Construction of Sludge Digester Building
- A.5 The major environmental impacts brought by the above construction works include:
 - Construction dust and noise generation from construction works and piling works
 - Wastewater generated from construction activities
 - Waste generation from the construction activities
- A.6 The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
 - Dust suppression by regular wetting and water spraying for construction works
 - Reduction of noise from equipment and machinery on-site
 - Mitigation measures preventing seepage of muddy water
 - Sorting and storage of general refuse and construction waste
- A.7 Five (5) sessions of air monitoring were carried out at all designated monitoring locations. No exceedance of Action or Limit Level was recorded.
- A.8 Four (4) sessions of noise monitoring were carried out at all designated monitoring locations. No exceedance of Action or Limit Level was recorded.
- A.9 Results of the monitoring for air quality and airborne noise are given in **Table A** and **Table B** as follows:

Table A - Monitoring Results (Dust)

| | | Dust in μg/m ³ | | |
|----------|---------|---------------------------|---------|----------|
| Location | A | verage | Rar | nge |
| | TSP-1hr | TSP-24hr | TSP-1hr | TSP-24hr |
| A1a | 77.5 | 116 | 65 – 90 | 71 - 149 |
| A2a | 72.3 | 97 | 61 - 79 | 39 - 139 |

Table B - Monitoring Results (Noise)

| | Noise in dB(A) | | |
|----------|---------------------------------------|--------------------------------|--|
| Location | Average | Range | |
| | L _{eq (30 min)} (7:00-19:00) | $L_{eq (30 min)} (7:00-19:00)$ | |
| N2a | 72.5 | 70.3 – 74.4 | |
| N3a | 71.8 | 66.8 – 73.5 | |

s: +3 dB(A) free-field corrections have been made to N3a.

- A.10 According to Section 4.3.3 of the EM&A Manual, Site inspection shall be carried out by the ET and attentions shall be paid to the mitigation measures recommended for water pollution control. Weekly site inspections were carried out and no non-compliance was spotted during the reporting month.
- A.11 Waste management mitigation measures were properly implemented in the reporting period.
- A.12 For cultural heritage impact, as this Project does not involve proposed sewers works, according to Section 6.1.5 of the EM&A Manual, no EM&A requirement is considered necessary during the construction and operational phase of upgrading of Cheung Chau STW and Pak She SPS.
- A.13 The recommended landscape and visual mitigation measures were properly implemented in the reporting period.
- A.14 Weekly site inspection of the construction work by ET were carried out on 06, 12, 20 and 28 December 2022.
- A.15 No environmental complaint was received during the reporting period.
- A.16 No notification of summons or prosecution was received in the reporting period.
- A.17 A map of the construction site and monitoring locations are shown in **Appendix A**.
- A.18 The summary of permit / licences for this Project is presented in **Table C** below:

Table C - Summary of Permit / Licences

| Nature | Number | Issue Date | Expiry Date |
|--------------------------|-----------------|------------|-------------|
| Environmental Permit | EP-488/2014/A | 13/05/2021 | N/A |
| Notification pursuant to | 462303 | 26/11/2020 | N/A |
| Air Pollution Control | | | |
| (Construction Dust) | | | |
| Regulation | | | |
| Waste Disposal Billing | 7039094 | 7/12/2020 | N/A |
| Account | | | |
| Waste Disposal (Vessel) | 7040870 | 28/09/2022 | 10/01/2023 |
| Billing Account | | 28/12/2022 | 10/04/2023 |
| Chemical Waste | 5213-920-B2500- | 31/12/2020 | N/A |
| Producer | 05 | | |
| Effluent Discharge | WT00038597- | 20/08/2021 | 31/08/2026 |
| Licence under Water | 2021 | · | · |
| Pollution Control | | | |
| Ordinance | | | |

1. Introduction

1.1. BACKGROUND

- **1.1.1.** Drainage Services Department (DSD) has contracted Build King Civil Engineering Limited (BK) to carry out the Outlying Islands Sewerage Stage 2 Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities under Contract No. DC/2019/07.
- **1.1.2.** Acuity Sustainability Consulting Limited (ASCL) is commissioned by BK to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment Report (EIA Report) (Register No. AEIAR-181/2013) and Environmental Monitoring and Audit Manual (EM&A Manual) for the Project; and to carry out the Environmental Monitoring and Audit (EM&A) programme in fulfillment of the EIA Report's EM&A requirements under Agreement No. CE 15/2010 (DS).

1.2. PROJECT DESCRIPTION

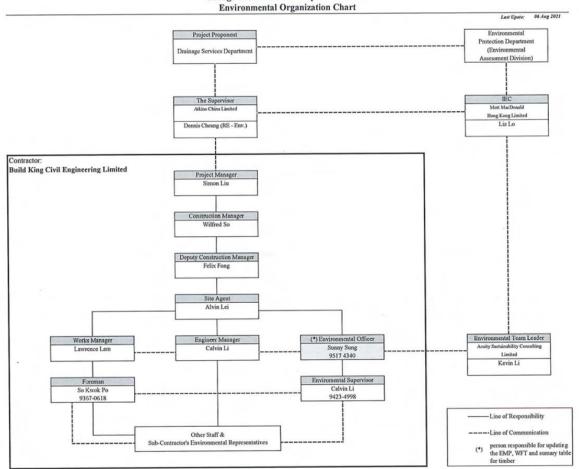
- **1.2.1.** The purpose of the Project is to upgrade the sewerage collection, treatment and disposal facilities in Cheung Chau in order to cater for the projected ultimate population and planned developments in Cheung Chau to meet the increased demand and to achieve more stringent effluent quality standards. The key elements of the proposed works for the Project will include as follows:
 - Expansion of the sewage treatment capacity and upgrading of the treatment level of the existing Cheung Chau Sewage Treatment Works (Cheung Chau STW) to secondary treatment level; and
 - Expansion of the pumping capacity of the existing Pak She Sewage Pumping Station (Pak She SPS).

1.3. PROJECT ORGANISATION STRUCTURE

1.3.1. The Project organization structure is presented in **Figure 1.1**.

Figure 1.1 Project Organization Structure

Contract No.: DC/2019/07
Outlying Islands Sewerage, Stage 2
Upgrading of Cheung Chau
Sewage Treatment and Disposal Facilities



| Project Proponent Resident Engineer | C.K. NG Dennis Cheung | 2594 7264 2675 3910 |
|---|--|--|
| Resident Engineer | Dennis Cheung | 2675 3910 |
| | | |
| Environmental Team Leader | Kevin Li | 2698 6833 |
| Independent Environmental Checker | Liz Lo | 2828 5751 |
| Site Agent | Alvin Lei | 6123 8136 9517 4340 |
| | Leader Independent Environmental Checker | Leader Independent Environmental Checker Site Agent Alvin Lei |

1.4. SUMMARY OF CONSTRUCTION WORKS

1.4.1. Details of the major construction activities undertaken in this and the next reporting periods are shown as below. The construction programme is presented in **Appendix B**.

Key activities carried out in this reporting period for the Project included the followings:

- Trial pit and ground investigation
- Smart sewage monitoring
- Pre-bored Works for Sheet Piles Installation for Subsequent ELS at CCSTW
- Repair Works for Existing Sludge Ramp
- Excavation and Lateral Support (ELS) at CCSTW
- Mechanical Installation Works of Pak She Sewage Pumping Station
- Construction of Superstructure of LV Main Switch Room and Transformer Room at CCSTW
- Construction of Sludge Digester Building

Key activities to be carried out in the next reporting period for the Project included the followings:

- Trial pit and ground investigation
- Smart sewage monitoring
- Pre-bored Works for Sheet Piles Installation for Subsequent ELS at CCSTW
- Repair Works for Existing Sludge Ramp
- Excavation and Lateral Support (ELS) at CCSTW
- Mechanical Installation Works of Pak She Sewage Pumping Station
- Mechanical Installation Works of Temporary Digestion System
- Construction of Superstructure of LV Main Switch Room and Transformer Room at CCSTW
- Construction of Sludge Digester Building

1.5. PURPOSE OF THE REPORT

- **1.5.1.** According to the EM&A Manual for the Project, monitoring for air quality and noise should be conducted throughout the construction period of the Project.
- **1.5.2.** The EM&A requirements for environmental monitoring are set out in the EM&A Manual. Environmental aspect of construction noise and air quality were identified as the key issues requiring implementation of monitoring programme during the construction phase of the Project.
- **1.5.3.** This report is summarizing the monitoring results and audit findings of the EM&A programme during the reporting period from 1 December to 31 December 2022.

2. AIR QUALITY

2.1. AIR QUALITY PARAMETERS

- **2.1.1.** The air quality parameters to be monitored includes:
 - 24-hour TSP:
 - 1-hour TSP; and

2.2. MONITORING CRITERIA

- **2.2.1.** Dust monitoring was carried out at the designated monitoring location at least once in every six-days to obtain 24-hour TSP samples. One-hour TSP sampling shall also be done at least 3 times in every six-days while the highest dust impact occurs.
- **2.2.2.** Before commencing the impact monitoring, the ET Leader shall inform the IEC of the impact monitoring programme such that the IEC can conduct on-site audit to ensure accuracy of the impact monitoring results.
- **2.2.3.** In case of non-compliance with the air quality criteria, additional monitoring as specified in the Action Plan shall be conducted within 24 hours after the result is obtained. This additional monitoring shall be continued until the excessive dust emission or the deterioration in air quality is rectified.

2.3. MONITORING REQUIREMENTS AND EQUIPMENT

- **2.3.1.** 1-hour and 24-hour TSP levels were measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the United States Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- **2.3.2.** High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - (i) $0.6 1.7 \text{ m}^3$ per minute adjustable flow range;
 - (ii) equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - (iii) installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - (iv) capable of providing a minimum exposed area of 406 cm²;
 - (v) flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - (vi) equipped with a shelter to protect the filter and sampler;
 - (vii) incorporated with an electronic mass flow rate controller or other equivalent devices;
 - (viii) equipped with a flow recorder for continuous monitoring;
 - (ix) provided with a peaked roof inlet;
 - (x) incorporated with a manometer;
 - (xi) able to hold and seal the filter paper to the sampler housing at horizontal position;
 - (xii) easily changeable filter; and

(xiii) capable of operating continuously for a 24-hour period.

- **2.3.3.** The ET is responsible for provision of the monitoring equipment. They shall ensure that sufficient number of HVSs with an appropriate calibration kit is available for carrying out the impact monitoring, and ad hoc monitoring. The HVSs shall be equipped with an electronic mass flow controller and be calibrated against a traceable standard at regular intervals. All the equipment, calibration kit, filter papers, etc., shall be clearly labelled.
- **2.3.4.** Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognised primary standard and be calibrated annually. The concerned parties such as ER shall properly document the calibration data for future reference. All the data shall be converted into standard temperature and pressure condition.
- **2.3.5.** If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, he shall submit sufficient information to the ER to prove that the instrument is capable of achieving a comparable result to the HVS. The instrument shall also be calibrated regularly, and the 1-hour sampling shall be determined periodically by the HVS to check the validity and accuracy of the results measured by direct reading method.

<u>Laboratory Measurement / Analysis</u>

- **2.3.6.** A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory shall be HOKLAS accredited.
- **2.3.7.** Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling
- **2.3.8.** After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity-controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- **2.3.9.** 1-hour TSP levels and 24-hour TSP had been measured with direct reading dust meters and High Volume Samplers respectively. The details of equipment used for monitoring are listed in **Table 2.1**, and the calibration certificates are presented in **Appendix C**.

Table 2.1 Equipment Used for Air Quality Monitoring

| Equipment | Model | Serial Number |
|-------------------------------------|---|--------------------------------------|
| Portable dust meter – 1-hour TSP | SIBATA Digital Dust Indicator (Model: LD-5R) | 761173 992821 851820 0Z4544 |
| High Volume Samplers – 24- hour TSP | Tisch TE-5170X High Volume Air Sampler | 1048 1085 |
| Calibrator Kit | Tisch TE-5025A Calibration Kit | 3465 |

2.4. MONITORING LOCATIONS

- **2.4.1.** The ET agreed with the ER and the IEC on the position of the HVS for the installation of the monitoring equipment. When positioning the samplers, the following points were noted:
 - (i) a horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
 - (ii) no two samplers shall be placed less than 2 meters apart;
 - (iii) the distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
 - (iv) a minimum of 2 meters of separation from walls, parapets and penthouses is required for rooftop samplers;
 - (v) a minimum of 2 meters separation from any supporting structure, measured horizontally is required;
 - (vi) no furnace or incinerator flue is nearby;
 - (vii) airflow around the sampler is unrestricted;
 - (viii) the sampler is more than 20 meters from the dripline;
 - (ix) any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring
 - (x) permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- (xi) a secured supply of electricity is needed to operate the samplers.
- **2.4.2.** The proposed dust monitoring station is presented in **Table 2.2** and the respective locations are shown in Figure 2.1 of the EM&A Manual.

Table 2.2 Proposed Dust Monitoring Stations

| ID No. | Location | Nature of Use | Remarks |
|-----------|---|--------------------|--|
| A1 | Cheung King House, Cheung Kwai Estate | Residential | Specified in the EM&A Manual but proposed to change location |
| A1a | The admin building inside the construction site | Institutional | Proposed alternative location to replace A1 |
| A2 | Cheung Chau Slaughter House | Slaughter house | Specified in the EM&A Manual but proposed to change location |
| A2a | The existing outfall pumping station inside the construction site | Institutional | Proposed alternative location to replace A2 |

- **2.4.3.** As secured electricity supply was not able to be provided at Monitoring Station A1, Monitoring Station A1a was then proposed, The proposed Monitoring Station A1a is the Admin Building inside the construction site. It is located at a similar direction as A1 from the construction site, but much closer to any major dust emission source than A1.
- **2.4.4.** Monitoring Station A2 is now abandoned, only limited access can be granted and power supply cannot be guaranteed which may not feasible to be a monitoring location. An alternative location A2a, which is the existing outfall pumping station Building inside the

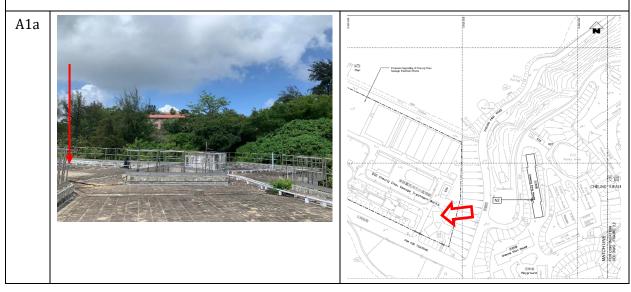
construction site. Location A2a is about 30 meter away from the Cheung Chau slaughter house and closer to the dust emission source.

2.4.5. The proposed alternative monitoring locations meet the guidelines and requirements specified in Section 2.4.1 and 2.4.2 of the EM&A Manual. **Table 2.3** shows the photographs of the air monitoring locations.

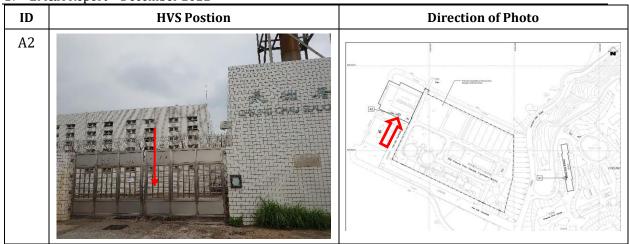
Table 2.3 Photo of Proposed HVS Position at Dust Monitoring Stations



The proposed Monitoring Station A1a is the Admin Building inside the construction site. It is located at a similar direction as A1 from the construction site, but much closer to any major dust emission source than A1.



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Because Monitoring Station A2 is now abandoned, only limited access can be granted and power supply cannot be guarunteed which may not feasible to be a monitoring location.





2.5. RESULTS AND ANALYSIS

2.5.1. The 1-hour TSP and 24-hour TSP measurement data are shown in <u>Appendix D</u> and summarized in **Table 2.4** and **Table 2.5** respectively.

Table 2.4 Summary of 1-hour TSP Monitoring Results

| Monitoring Location | Average(μg/m3) | Range(μg/m3) |
|---------------------|----------------|--------------|
| A1a | 77.5 | 65 - 90 |
| A2a | 72.3 | 61 - 79 |

Table 2.5 Summary of 24-hour TSP Monitoring Results

| Monitoring Location | Average(μg/m3) | Range(μg/m3) |
|---------------------|----------------|--------------|
| A1a | 116 | 71 - 149 |
| A2a | 97 | 39 - 139 |

2.6. Environmental Quality Performance Limits

2.6.1. The baseline monitoring results formed the basis for determining the air quality criteria for the impact monitoring. The ET shall compare the impact monitoring results with air quality criteria set up for 24-hour TSP and 1-hour TSP. **Table 2.6** shows the air quality criteria, namely Action and Limit levels to be used.

Table 2.6 Action / Limit Levels for Air Quality

| Parameters | Action Level | Limit Level |
|-------------------------|---|-----------------------|
| 1-hour TSP Level | For baseline level $\leq 200 \mu\text{g/m}^3$ AL = (BL * 1.3 + LL)/2 | 260 μg/m³ |
| in μg/m³ | For baseline level > $200 \mu g/m^3$ AL = LL | |
| 24-hour TSP Level in | For baseline level $\leq 384 \mu\text{g/m}^3$ AL = (BL * 1.3 + LL)/2 | 500 μg/m ³ |
| μg/m³ | For baseline level > $384 \mu g/m^3$ AL = LL | |

2.6.2. The derived Action/Limit Levels are presented in **Table 2.7**.

Table 2.7 Derived Action / Limit Levels for Air Quality

| Parameters | Monitoring Location | Action Level μg/m ³ | Limit Level μg/m ³ |
|-------------------------|---------------------|---------------------------------------|--------------------------------------|
| 1-hour TSP Level | A1a | 151 | 260 |
| in μg/m ³ | A2a | 154 | |
| 24-hour TSP Level in | A1a | 270 | 500 |
| μg/m³ | A2a | 271 | |

2.7. EVENT AND ACTION PLAN

2.7.1. Should non-compliance of the air quality criteria occur, actions in accordance with the Action Plan in **Table 2.8** shall be carried out.

 Table 2.8
 Event and Action Plan for Air Quality (Construction Dust)

Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities

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| EVENT | | ACTION PLAN FOR CONSTRUCTION DUST | | | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|--|--|
| EVENT | ET | IEC | IEC ER | | | | | | | | |
| | | ACTION LEVEL | | | | | | | | | |
| Exceedance for one sample | Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; and Increase monitoring frequency to daily. | Check monitoring data submitted by ET; and Check Contractor's working method. | Notify Contractor. | Rectify any unacceptable practice; and Amend working methods if appropriate. | | | | | | | |
| Exceedance for two or more consecutive samples | Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; and | Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; and Supervise implementation of remedial measures | Confirm receipt of notification of failure in writing; Notify Contractor; and Ensure remedial measures properly implemented. | Submit proposals for remedial to IEC within 3 working days of notification; Implement the agreed proposals; and Amend proposal if appropriate. | | | | | | | |

3. Noise

3.1. MONITORING CRITERIA

- **3.1.1.** Impact monitoring was conducted once a week between 07:00-19:00 hours on normal weekdays.
- **3.1.2. Table 3.1** summarizes the monitoring parameters, frequency and duration of the noise monitoring.

Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

| Time | Duration | Interval | Parameters |
|---------------------------|---------------|--|--|
| Daytime: 0700-1900 hrs | Once per week | $\begin{array}{c} \text{Continuously in} \\ L_{\text{eq }5\text{min}}/L_{\text{eq }30\text{min}} \\ \text{(average of 6} \\ \text{consecutive } L_{\text{eq}} \\ \text{5min)} \end{array}$ | $L_{eq~5min},L_{eq~30min},$ $L_{10}~\&~L_{90}$ |

3.2. MONITORING REQUIREMENTS AND EQUIPMENT

- **3.2.1.** Sound level meters and calibrators shall comply with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specification as referred to in the Technical Memorandum (TM) issued under the Noise Control Ordinance.
- **3.2.2.** Sound level meters were calibrated using a portable calibrator prior to and following each noise measurement. Where the difference between the calibration levels is greater than 1.0 dB(A), the measurement shall be repeated. Calibrated hand-held anemometers were supplied for the measurement of wind speeds during noise monitoring periods.
- **3.2.3.** Noise measurements should not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- **3.2.4.** The details of equipment used for impact monitoring are listed in **Table 3.2**, and the calibration certificates are presented in <u>Appendix E</u>.

Table 3.2 Equipment Used for Noise Monitoring

| Equipment | Model | Serial Number |
|---------------------|-------------|---------------|
| Sound Level Meter | SVANTEK 971 | 103482 |
| Sound Level Meter | XL2 | A2A-13663-E0 |
| Acoustic Calibrator | Rion NC-75 | 34724244 |
| | | 34724243 |

3.3. Monitoring Location

3.3.1. According to the environmental findings detailed in the EIA report, the designated locations for the construction noise monitoring are listed in **Table 3.3** and shown in Figure 3.1 – 3.8 of the EM&A Manual.

Table 3.3 Noise Monitoring Stations for Noise Monitoring

| ID No. Location | Nature of Uses | Remarks | Façade/Free- field |
|-----------------|----------------|---------|-----------------------|
|-----------------|----------------|---------|-----------------------|

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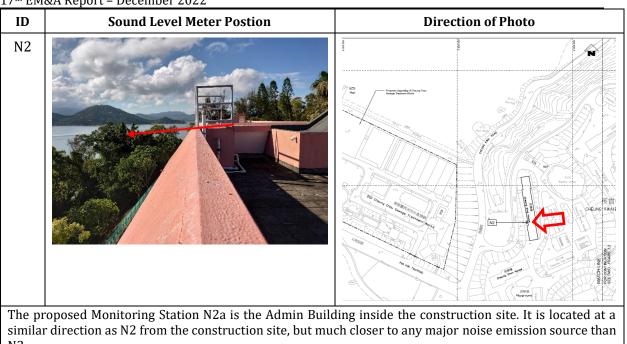
| N2 | Cheung King House, Cheung Kwai Estate | Residential | Specified in the EM&A Manual but proposed to change location | Façade |
|-----|---|---------------|--|------------|
| N2a | Admin Building inside the Construction Site | Institutional | Proposed alternative location to replace N2 | Façade |
| N3 | No. 1A Pak She Second Lane | Residential | Specified in the EM&A Manual but proposed to change location | Free-field |
| N3a | Cheung Chau Fire Station Fire Station | | Proposed alternative location to replace N3 | Free-field |

- **3.3.2.** For this Contract, only N2 and N3 need to be monitored since all the other monitoring stations specified in the EM&A Manual are for sewers works but this Contract does not include sewers works.
- **3.3.3.** The proposed Monitoring Station N2a is the Admin Building inside the construction site. It is located at a similar direction as N2 from the construction site, but much closer to any major noise emission source than N2.
- **3.3.4.** According to Figure 3.3 of the EM&A Manual, Location N3 is placed in front of a restaurant on Ping Chong Road. It may pose potential danger to pedestrians, cyclists, drivers and the equipment. A proposed monitoring location N3a, which is about 5 m away from the original monitoring location. N3a is at the corner of the Cheung Chau Fire Station. This location is more safe and meets the guidelines and requirements specified in Secion 3.4.1 and 3.4.2 of the EM&A Manual.
- **3.3.5.** The monitoring locations should normally be made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. **Table 3.4** showed photographs and indications of the proposed position of sound level meters to be placed for the baseline and impact monitoring.

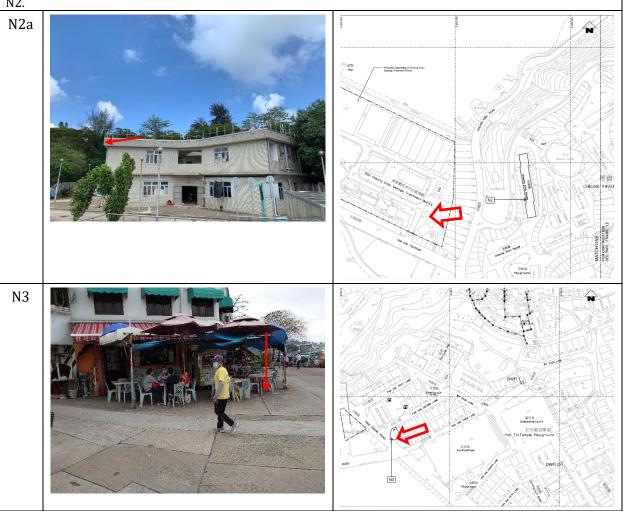
Table 3.4 Photo of Proposed Sound Level Meter Position at Noise Monitoring Stations

Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities

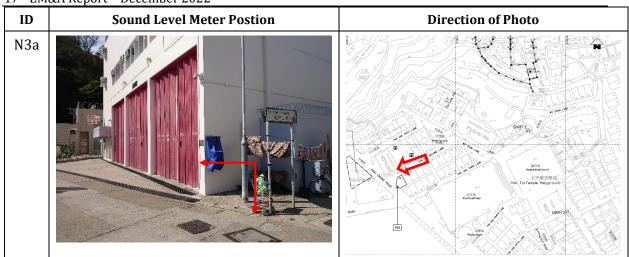
17th EM&A Report – December 2022



N2.



According to Figure 3.3 of the EM&A Manual, Location N3 is placed in front of a restaurant on Ping Chong Road. It may pose potential danger to pedestrians, cyclists, drivers and the equipment.



3.4. RESULTS AND ANALYSIS

3.4.1. The noise monitoring was carried out in Decmeber 2022. The measurement data are shown in Appendix F and summarized in **Tables 3.5**.

Table 3.5 Summary of Noise Monitoring Results

| Monitoring Location | Time Period Average[dB(A)) | | Range[dB(A)) |
|------------------------|----------------------------|------|--------------|
| N2a | Daytime (0700- 1900) | 72.5 | 70.3 – 74.4 |
| N3a | Daytime (0700- 1900) | 71.8 | 66.8 - 73.5 |

s: +3 dB(A) free-field corrections have been made to the data of N3a.

3.5. Environmental Quality Performance Limits

3.5.1. The Action and Limit levels for construction noise are shown in **Table 3.6**. All NSRs identified in the Project are classified with an Area Sensitivity Rating (ASR) A in accordance with the Technical Memorandum on Noise from Construction Work Other Than Percussive Piling.

Table 3.6 Action / Limit Levels for Construction Noise

| Time Period | Action | Limit |
|---------------------------------------|---|---------|
| 07:00-19:00 hours on normal weekdays; | When one or more documented complaints are received | 75dB(A) |

3.6. EVENT AND ACTION PLAN

3.6.1. Should non-compliance of the noise monitoring criteria occur, actions in accordance with the Action Plan in **Table 3.7** shall be carried out.

Table 3.7 Event and Action Plan for Construction Noise

| Event | ET | IEC | ER | CONTRACTOR |
|-----------------|--|--|---|---|
| Action Level | Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and contractor and formulate remedial measures; and | Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; and Advise the ER on the effectiveness of the proposed remedial measures. | Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; and Supervise the implementation of remedial measures. | Submit noise mitigation proposals to IEC and ER; and Implement noise mitigation proposals. |
| Limit Level | Notify IEC, ER, EPD & Contractor; Identify source and investigate the cause of exceedance; Repeat measurement to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Discuss with the IEC, Contractor and ER on remedial measures required; Assess the effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. | Discuss amongst ER, ER and Contractor on the potential remedial actions; and Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. | Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the EIC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; and If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. | Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; and Stop the relevant portion of works as determined by ER, until the exceedance is abated. |

4. WATER QUALITY

- 4.1. As suggested in Section 4.3 of the EM&A Manual, regular site audit was carried out to ensure that the recommended mitigation measures were properly implemented during the construction phase of upgrading of Cheung Chau STW and Pak She SPS. Site audit included site inspections and compliance audits were conducted in the reporting period.
- 4.2. Site inspection was carried out by the ET on 06, 12, 20 and 28 December 2022. No major deficiency was observed and the implementation of recommended for water pollution control was considered satisfactory.
- 4.3. Compliance audits were undertaken that a valid discharge license was issued by EPD on 20 August 2021. The Contractor was reminded to make sure any effluent discharge from construction activities of the Project site should meet the requirements stipulated in the discharge license and monitoring of the treated effluent quality from the Works Areas should be carried out in accordance with the Water Pollution Control Ordinance license that is under the ambit of the relevant regional EPD office.
- 4.4. According to the Specific Conditions B2 in Part B of the discharge licence issued under WPCO, a sample of discharge was taken in December 2022 for testing. Due to the delay of laboratory result, the result will be presented in the next EM&A monthly report.

4.5.

5. WASTE MANAGEMENT

5.1. The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are presented in **Table 5.1**.



Notes

Contract No: DC/2019/07

Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities

| Name of Department : Drainage Services Department | Contract No./ Work Order No. : | DC/2019/07 |
|---|--------------------------------------|---|
| | Project Title: | Outlying Islands Sewerage Stage 2 - Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities |
| | Contractor: | Build King Civil Engineering Limited |
| | Trip Ticket Account (Main Account): | 7039094 |
| | Trip Ticket Account (Vessel Account) | : 7040870 |

Monthly Summary Waste Flow Table for 2022 (in Weight)

Table 5.1

| (All quantities s | hall be rounded off to | 3 decimal places) | | | | | | | | updated on: | 03-Oct-2022 |
|-------------------|-------------------------------|--|---------------------------|-----------------------------|-------------------------|---|-----------------|-----------------------------------|--|-----------------------|--|
| | | Actual Quan | tities of Inert C&D Mater | ials Generated / Imported | l (in '000 kg) | n '000 kg) Actual Quantities of Other C&D Materials / | | | Wastes Generated | | |
| Month | Total Quantities Generated | Broken Concrete (including rock for recycling into aggregates) | Reused in the Contract | Reused in Other Projects | Disposed as Public Fill | Imported C&D Material | Metal | Paper/ Cardboard Packaging (f) | Plastic (g) (hottles/containers, plastic sheets/ foams from package material) | Chemical Waste (h) | Others (i) (e.g. General Refuse etc.) |
| | [a+b+c+d+e+f+g+h+i) | (a) | (b) | (c) | (d) | | (e) (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) |
| Jan-2022 | 42.0400 | 0.0000 | 0.0000 | 0.0000 | 40.5200 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.5200 |
| Feb-2022 | 1.3800 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.3800 |
| Mar-2022 | 2736.9100 | 0.0000 | 0.0000 | 0.0000 | 2735.9500 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.9600 |
| Apr-2022 | 1357.0800 | 0.0000 | 0.0000 | 0.0000 | 1353.9000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 3.1800 |
| May-2022 | 1888,2200 | 0.0000 | 0.0000 | 0.0000 | 1885,0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 3.2200 |
| Jun-2022 | 1319.8900 | 0.0000 | 0.0000 | 0.0000 | 1313,0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 6.8900 |
| Half-year total | 7345.5200 | 0.0000 | 0.0000 | 0.0000 | 7328.3700 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 17.1500 |
| Jul-2022 | 3144.6400 | 0.0000 | 0.0000 | 0.0000 | 3140.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 4.6400 |
| Aug-2022 | 2907.2200 | 0.0000 | 0.0000 | 0.0000 | 2902.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 5.2200 |
| Sep-2022 | 4.3700 | 0.0000 | 0.0000 | 0.0000 | 3.7300 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6400 |
| Oct-2022 | 2.4000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 2.4000 |
| Nov-2022 | 17.3400 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 17.3400 |
| Dec-2022 | 3660.2300 | 0.0000 | 0.0000 | 0.0000 | 3658.2700 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.9600 |
| Yearly Total | 17081.7200 | 0.0000 | 0.0000 | 0.0000 | 17032.3700 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 49.3500 |

(All quantities shall be rounded off to 3 decimal places) Actual Quantities of Inert C&D Materials Generated / Imported (in '000 kg) Broken Concrete Paper/ Cardboard Total Quantities Reused in Other Others Year Disposed as Public Fill Imported C&D Materia Chemical Waste ing rock for recycling Generated Projects Packaging e.g. General Refuse etc Gin 'OOOka' 2020 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 2021 858.3600 0.0000 0.0000 0.0000 0.0000 0.0000 72.0600 2022 17081.7200 0.0000 0.0000 0.0000 17032.3700 0.0000 0.00000.0000 0.0000 0.0000 49.3500 0.0000 2024 0.0000 2025 0.0000 2026 0.0000 Total 17940.0800 0.0000 0.0000 0.0000 17818.6700 0.0000 0.0000 0.0000 0.0000 0.0000 121.4100

- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Sites.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) The summary table shall be submitted to the Project Manager monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.20(8)

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6. LANDSCAPE & VISUAL

- 6.1. The EIA Report has recommended landscape and visual mitigation measures to be undertaken during construction and operational phases of the upgrading of Cheung Chau STW under this Project. The implementation and maintenance of landscape mitigation measures were checked to ensure that they are fully realised and that potential conflicts between the proposed landscape measures and any other project works and without compromise to the intention of the mitigation measures.
- 6.2. Regular audits were carried out to ensure all the recommended landscape and visual mitigation measures were effectively implemented.
- 6.3. The EM&A Manual proposed mitigation measures were checked on a regular basis to ensure compliance with the intended aims of the EIA.

6.4.

7. SITE INSPECTION AUDIT

- 7.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 06, 12, 20 and 28 December 2022. A joint site inspection with IEC was carried out on 12 December 2022.
- 7.2. Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 7.1**.

Table 7.1 Site Observations

| Date | Environmental | Follow-up Status | Reminders |
|------------------|--|--|-----------|
| | Observations | | |
| 6 December 2022 | Watering should be more frequently in dry season.(In MBR) | Water spraying was implemented regularly. | N.A. |
| | Chemical should be removed / placed on drip tray.(In MBR / SDB) | Chemical was removed. | N.A. |
| 12 December 2022 | Construction materials should not be put inside tree protection zone. | Construction materials was removed. | N.A. |
| | Sand bag should be place around gulty to avoid seepage of muddy water. | Sand bag was provided surrounding the gulty. | N.A. |

| Date | Environmental | Follow-up Status | Reminders |
|------------------|---------------------------|------------------------|-----------|
| | Observations | | |
| 20 December 2022 | The cover of the | A taller cover of the | N.A. |
| | pilling should be | pilling was provided. | |
| | lower to avoid | | |
| | the covered the | | |
| | tree body. | | |
| | The water | Sand bag was provided. | N.A. |
| | mitigation | | |
| | measure should | | |
| | be enhanced to | | |
| | avoid muddy water from | | |
| | water from flowing into | | |
| | storm drain. | | |
| | Extensive | Await report from | N.A. |
| | pruning of tree | Contractor. | N.A. |
| | T5 was observed. | Gontiactor. | |
| 28 December 2022 | Oil bottles should | Oil bottles were | N.A. |
| | be put on drip | removed. | 11121 |
| | tray. | | |
| | Sand bags should | Sand bag was provided | N.A. |
| | be placed to | surrounding the stom | |
| | avoid muddy | drain. | |
| | water or loose | | |
| | soil from flowing | | |
| | into the storm | | |
| | drain. Broken | | |
| | sand bags should | | |
| | be replaced. | | |
| | Stone breaker | Stone breaker was | N.A. |
| | should be put on | removed. | |
| | tarpaulin. Oil | | |
| | spillage should | | |
| | be soaked up and | | |
| | treated as | | |
| | chemical waste | | |

7.3. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix G**.

7.4.

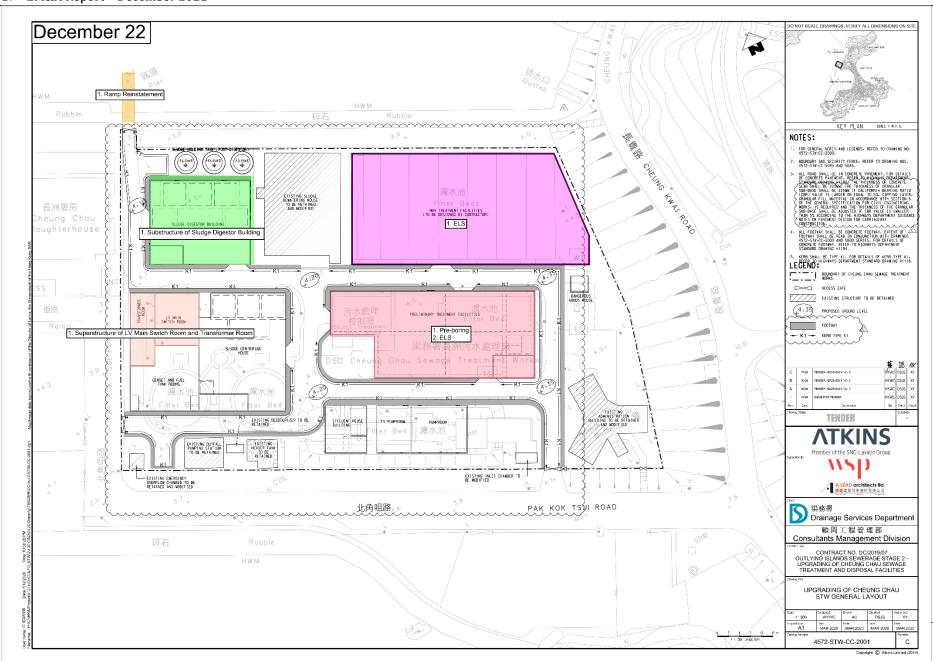
8. CONCLUSION

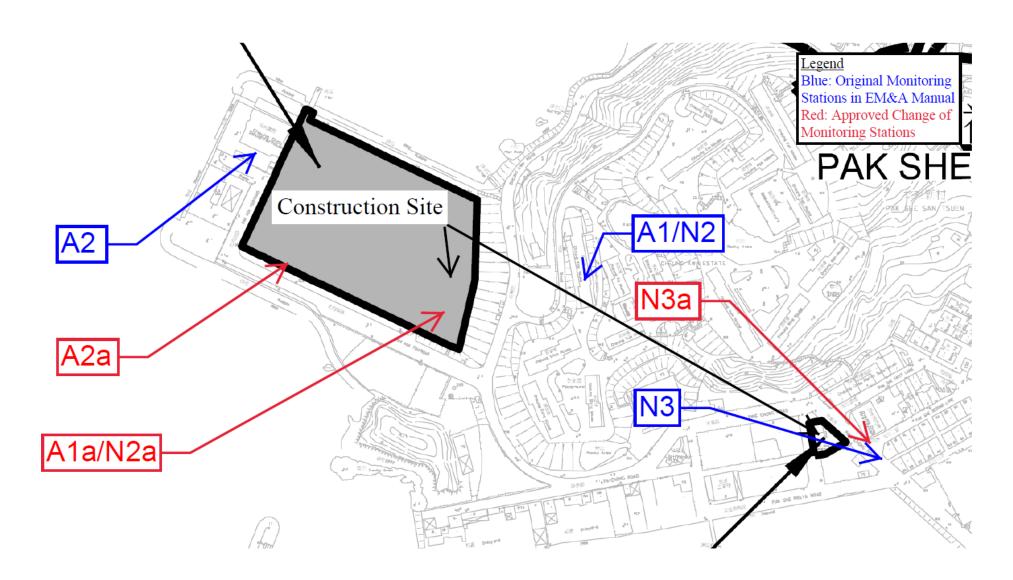
8.1. This is the 17th Monthly EM&A Report for the Project which summarizes the key findings of the programme during the reporting period from 1 December to 31 December 2022, in accordance with the EM&A Manual and the requirement under EP-488/2014/A.

Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 17th EM&A Report – December 2022

- 8.2. Five (5) sessions of air and four (4) sessions of noise monitoring were carried out at the monitoring locations sited at Cheung Chau in the reporting month.
- 8.3. Site audits were conducted as mitigation measures recommended for water pollution control and landscape and visual impact monitoring in the reporting period. Proper mitigation measures were implemented.
- 8.4. Weekly environmental site inspections were conducted during the reporting period. Only minor deficiencies were observed during site inspections. The environmental performance of the project was therefore considered satisfactory.
- 8.5. No exceedance of Action or Limit Level was recorded in the reporting period.
- 8.6. No environmental complaint was received in the reporting period.
- 8.7. No notification of summons or prosecution was received during the reporting period

APPENDIX A Location Plan and Noise and Dust Monitoring Stations





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Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 17th EM&A Report – December 2022

APPENDIX B Construction Programme



| ity ID | Activity Name | Ori, Dur (d) | TRA (d) | Time Elapsed % | Actual Workdone % | Actual Start | Actual Finish | Early Start | Early Finish L | ate Start | Late Finish | Early Start (Rev.17) | Early Finish (Rev.17) | Amended Activities | Total Float | 202 | inals dur | 2022 JEMA III | I AISIONE I | 2023 FINA 1 4 A | STAND JEIM | 2024 | o. |
|--------------------------|---|--------------|----------|----------------|----------------------|-------------------------|------------------------|-----------------------------|----------------------------|------------|-------------|-------------------------|--------------------------|-----------------------|----------------|--|-------------|------------------|-------------|--------------------|----------------|----------------|-----|
| OUTLYING IS | LANDS SEWERAGE STAGE2 - UPGRADING OF CHEUNG CHAU SEWAG | E TREA | TMEL | 30.19% | Workgone % | 27-Nov-20 | | 27-Nov-20 A | 01-Jan-27 3 | 30-Sap-22 | 01-Jan-27 | 27-Nov-20 | 01-Jan-27 | Activities | () | ~ ~ 1 m - 4 m - 1 | - Hadala | als [m] A [3] 3 | UAAMA1 | ILLA INNA | A de a la la | Jul alalyla | 44 |
| EY DATES | DANUS SEVERAGE STAGEZ - OF GRADING OF CHECKS CHAO SEVAC | IL INLA | CHIVILLI | 100% | | 27-Nov-20 | | 27-Nov-20 A | 28-Dec-25 2 | 10 Dec 26 | 28-Dec-25 | 27 Nov 20 | 28-Dec-25 | | | | | | \dashv | | | | ÷ |
| | | | | | 1000 | | | | 26-090-20 2 | :6-Det-25 | 26-De0-25 | 27-Nov-20 | 20-080-20 | | U | | . ! ' | 1 1 1 | | | | | |
| OC.KD.1010 | | 0 | 0 | 100% | 100% | 27-Nov-20 | | 27-Nov-20 A | | | | 27-Nov-20 | | | | 27-Nov-20 A | 1 | 1 1 1 | | | | | |
| DC.KD.1020 | Contract Completion Date | 0 | 0 | 0% | 0% | | | | 28-Dec-25* | | 28-Dec-25 | | 28-Dec-25 | | 0 | | . ! ! | 1 1 1 | | | | | 1 |
| ACCESS DATE | | | | 100% | | 27-Nov-20 | 03-Jun-21 | 27-Nav-20 A | 03-Jun-21 A | | | 27-Nov-20 | 03-Jun-21 | | | | | L | | | | | |
| DC,KD,1030 | | 0 | 0 | 100% | 100% | 27-Nov-20 | | 27-Nov-20 A | | | | 27-Nov-20 | | | | 27-Nov-20 / | 1 | 1 1 1 | | | | | |
| DC.KD.1030a | 11011011011 | 0 | 0 | 100% | 100% | 27-Nov-20 | | 27-Nov-20 A | | | | 27-Nov-20 | | | | 27-Nov-20 A | | | | | | | |
| DC,KD.1040 | Works Area WA3 | 0 | 0 | 100% | 100% | 03-Jun-21 | | 03-Jun-21 A | | | | 03-Jun-21 | | | | 83 | 03-Jun-21 / | A 1 1 | | | | | |
| LANNED CO | MPLETION DATES | | | | | | | 29-May-21 A | 10-Oct-25 2 | ?2-Feb-23 | 10-Oct-25 | 29-May-21 | 02-Oct-25 | | 0 | - | | | \neg | | | | Ŧ |
| DC.KD.1050 | Planned Completion of Section 1 (Actual Commencement Date on 27 Nov 2020) | 0 | 0 | | | | 29-May-21 | | 29-May-21 A | | | | 29-May-21 | | | 8 | | 1 1 1 | | | | | |
| OC,KD,1060 | Planned Completion of Section 2 (Actual Commencement Date on 29 May 2021) | 0 | 0 | | | | | | 22-Feb-23* | | | | 22-Feb-23 | | 0 | | | | 1 | 8 | 1 1 | | Ť |
| DC.KD.1070 | Planned Completion of Section 3 (Actual Commencement Date on 29 May 2021) | 0 | 0 | | | | | | 13-Jan-25* | | | | 02-Apr-25 | | 0 | | | 1 1 1 | | | | | - 8 |
| DC.KD.1080 | Planned Completion of Section 4 (Actual Commencement Date on 29 May 2021) | 0 | 0 | | | | | | 10-Oct-25* | | | | 02-Oct-25 | × | 0 | | | | | | | | |
| CONTRACT SE | ECTIONAL COMPLETION DATES | | | | | | | 29-May-21 A | 02-Jan-26 C | 02-Dec-22 | 02-Jan-26 | 28-Feb-22 | 02-Jan-26 | | 0 | | _ | \rightarrow | + | - | + | - | ÷ |
| OC.KD.1230 | Confract Sectional Completion Date of Section 1 (Actual Commencement Date on 27 Nov 2020) | 0 | 0 | 100% | | | 29-May-21 | 20 | 29-May-21 A | 20002 | 0.000 | 207.00.20 | 29-May-21 | | | | | | | | | | |
| DC.KD.1250 | · · · · · · · · · · · · · · · · · · · | 0 | 0 | 88.4% | | | Zo-Ividy-Zi | | 03-Dec-22* | | | | | | 0 | | | | | | <u> </u> | | |
| | Confract Sectional Completion Date of Section 2 (Actual Commencement Date on 29 May 2021) | 0 | | | | | | | | | | | 03-Dec-22 | | 0 | | | 1 1 1 | • | | | | |
| OC.KD.1260 | , , | 0 | 0 | 34.9% | | | | | 02-Apr-25* | | | | 02-Apr-25 | | 0 | | | 1 1 1 | | | | | |
| DC.KD.1270 | Confract Sectional Completion Date of Section 4 (Actual Commencement Date on 29 May 2021) | V | 0 | 29.2% | | 07.11 | | 67.11 00.1 | 02-Jan-26* | 15101 | 10.0.105 | 07.11 67 | 02-Jan-26 | | - | | | | | | | | - 1 |
| IESIGN SUBM | AISSION, PERMIT | | | 69.92% | | 27-Nov-20 | | 27-Nov-20 A | | 4-Feb-24 | 10-Oct-25 | 27-Nov-20 | 19-Sep-25 | | 100 | | | | | | [] | | |
| OC.KD.1090 | Prepare/submission of Temporary Drainage and Sewerage Management Plan to the Supervisor, DSD/HK& | | 0 | 100% | 100% | 27-Nov-20 | 12-Mar-21 | 27-Nov-20 A | 12-Mar-21 A | | | 27-Nov-20 | 12-Mar-21 | | | | | | | | | | |
| OC,KD,1100 | Consultation/approval of Temporary Drainage and Sewerage Management Plan by the Supervisor, DSD/Hi | | 0 | 100% | 100% | 13-Mar-21 | 11-May-21 | 13-Mar-21 A | 11-May-21 A | | | 13-Mar-21 | 11-May-21 | | | | | | | | | | |
| C.KD.1110 | Application/approval of MDN & seeking Marine Dept's approval for loading/unloading at passage area near | | 0 | 100% | 100% | 27-Nov-20 | 15-May-21 | 27-Nov-20 A | 15-May-21 A | | | 27-Nov-20 | 15-May-21 | | | | | 1 1 1 | | | | | |
| OC.KD.1120 | Application/approval of TTMS and CNP for night works by relevant authorities | 170 | 0 | 100% | 100% | 27-Nov-20 | 15-May-21 | 27-Nov-20 A | 15-May-21 A | | | 27-Nov-20 | 15-May-21 | | | | | 1 1 1 | | | | | |
| OC,KD,1130 | Application/approval of permits or other statutory submissions by relevant authorities/parties | 150 | 0 | 100% | 100% | 27-Nov-20 | 25-Apr-21 | 27-Nov-20 A | 25-Apr-21 A | | | 27-Nov-20 | 25-Apr-21 | | | - | | | | | | | |
| OC.KD.1140 | BIM Execution Plan | 30 | 0 | 100% | 100% | 27-Nov-20 | 26-Dec-20 | 27-Nov-20 A | 26-Dec-20 A | | | 27-Nov-20 | 26-Dec-20 | | | ! | | 1 1 1 | | | | | |
| OC,KD,1150 | Preparation and submission of BIM's CoBle/Asset data deliverables | 50 | 0 | 0% | 0% | | | 15-Mar-25 | 03-May-25 2 | 2-Aug-25 | 10-Oct-25 | 02-Jun-25 | 21-Jul-25 | | 160 | | | / | | | 1 | | |
| OC,KD,1160 | Preparation and submission of fully coordinated as-built BIM model | 25 | 0 | 0% | 0% | | | 14-Apr-25 | 08-May-25 1 | 6-Sep-25 | 10-Oct-25 | 02-Jul-25 | 26-Jul-25 | | 155 | | | 1 1 1 | | | | | |
| OC.KD.1170 | Preparation and submission of proposal of COBie/Asset information requirements | 200 | 0 | 0% | 0% | | | 15-Dec-24 | 02-Jul-25 2 | 25-Mar-25 | 10-Oci-25 | 04-Mar-25 | 19-Sep-25 | | 100 | | | | _ J | | | | |
| DC.KD.1180 | Preparation and submission of Draft Safety Plan | 14 | 0 | 100% | 100% | 27-Nov-20 | 10-Dec-20 | 27-Nov-20 A | 10-Dec-20 A | | | 27-Nov-20 | 10-Dec-20 | | | | . ! ' | 1 1 1 | | | | | |
| DC.KD.1190 | Obtain comments on Draft Safety Plan | 14 | 0 | 100% | 100% | 11-Dec-20 | 24-Dec-20 | 11-Dec-20 A | 24-Dec-20 A | | | 11-Dec-20 | 24-Dec-20 | | | | | 1 1 1 | | | | | |
| DC.KD.1200 | Preparation and Submission of Safety Plan | 7 | 0 | 100% | 100% | 25-Dec-20 | 31-Dec-20 | 25-Dec-20 A | 31-Dec-20 A | | | 25-Dec-20 | 31-Dec-20 | | | | | r | | | · | | - 6 |
| DC,KD,1210 | Preparation and Submission of Tree Survey Report | 111 | 0 | 100% | 100% | 27-Nov-20 | 17-Mar-21 | 27-Nov-20 A | 17-Mar-21 A | | | 27-Nov-20 | 17-Mar-21 | | | | | 1 1 1 | | | | | |
| DC,KD,1210 DC,KD,1220 | | 1 | 0 | 0% | 0% | 27-1909-20 | 17-IVIdI-21 | 14-Feb-24 | | 4-Feb-24 | 14-Feb-24 | 07-Feb-24 | 07-Feb-24 | | n | | | | | | | | - |
| | Ottall bischarge Etense by Shell | 1 | 0 | 100% | 076 | 07 New 00 | 40 Nev 24 | | | 4-1-60-2-4 | 144.60-24 | | | | U | | | 1 1 1 | | | ' | | |
| ECTION 1 | | | | | | 27-Nov-20 | 18-Nov-21 | 27-Nov-20 A | 18-Nov-21 A | | | 27-Nov-20 | 18-Nov-21 | | | | ' | 1 1 1 | | | | | |
| | PROPOSAL for ECI Stage 2 | | | 100% | | 27-Nov-20 | 18-Nov-21 | 27-Nov-20 A | 18-Nov-21 A | | | 27-Nov-20 | 18-Nov-21 | | | | | ıii | | | ļ | | |
| | posal for Preliminary Treatment System at CCSTW | | | 100% | | 03-Jun-21 | 18-Nov-21 | 03-Jun-21 A | 18-Nov-21 A | | | 03-Jun-21 | 18-Nov-21 | | | | | 1 1 1 | | | | | |
| DC.S1.1010 | Preparation and approval of content page | 10 | 0 | 100% | 100% | 03-Jun-21 | 12-Jun-21 | 03-Jun-21 A | 12-Jun-21 A | | | 03-Jun-21 | 12-Jun-21 | | | | | | | | | | |
| DC,S1,1020 | Preparation of design report including design intention and list of design parameters / assumptions | 25 | 0 | 100% | 100% | 13-Jun-21 | 07-Jul-21 | 13-Jun-21 A | 07-Jul-21 A | | | 13-Jun-21 | 07-Jul-21 | | | | | 1 1 1 | | | | | |
| DC.S1.1030 | Preparation of process calculation and equipment sizing | 25 | 0 | 100% | 100% | 08-Jul-21 | 01-Aug-21 | 08-Jul-21 A | 01-Aug-21 A | | | 08-Jul-21 | 01-Aug-21 | | | | • | 1 1 1 | | | | | |
| DC.S1.1040 | Preparation of general layout and equipment location plan | 20 | 0 | 100% | 100% | 02-Aug-21 | 21-Aug-21 | 02-Aug-21 A | 21-Aug-21 A | | | 02-Aug-21 | 21-Aug-21 | | | | • | | | | | | |
| DC,S1,1050 | Preparation of control philosophy | 9 | 0 | 100% | 100% | 22-Aug-21 | 30-Aug-21 | 22-Aug-21 A | 30-Aug-21 A | | | 22-Aug-21 | 30-Aug-21 | | | | | | | | | | |
| DC.S1.1060 | Preparation of remaining content of technical prosposal | 19 | 0 | 100% | 100% | 31-Aug-21 | 18-Sep-21 | 31-Aug-21 A | 18-Sep-21 A | | | 31-Aug-21 | 18-Sep-21 | | | | | | | | | | |
| DC,S1,1070 | Draft Submission | 0 | 0 | 100% | 100% | | 18-Sep-21 | | 18-Sep-21 A | | | | 18-Sep-21 | | | 11 | 8 | 1 1 1 | | | | | |
| DC,S1,1080 | Draft Submission Comment and Approval | 27 | 0 | 100% | 100% | 19-Sep-21 | 15-Oct-21 | 19-Sep-21 A | 15-Oct-21 A | | | 19-Sep-21 | 15-Oct-21 | | | 11 | • | 1 1 1 | | | | | |
| DC.S1.1090 | Final Sutmission | 34 | 0 | 100% | 100% | 16-Oct-21 | 18-Nov-21 | 16-Oct-21 A | 18-Nov-21 A | | | 16-Oct-21 | 18-Nov-21 | | | 11 | - | . 1 1 | | | | | |
| Technical Prop | posal for MBR System and MBR Building at CCSTW | | | 100% | | 27-Nov-20 | 25-May-21 | 27-Nov-20 A | 25-May-21 A | | | 27-Nov-20 | 25-May-21 | | | | | (| | 111111 | | | 1 |
| E&M Submission | | | | 100% | | 27-Nov-20 | 25-May-21 | 27-Nov-20 A | 25-May-21 A | | | 27-Nov-20 | 25-May-21 | | | | | . 1 1 | | | | | |
| DC.S1.1110 | | 10 | 0 | 100% | 100% | 27-Nov-20 | 06-Dec-20 | 27-Nov-20 A | 06-Dec-20 A | | | 27-Nov-20 | 06-Dec-20 | | | | | 1 1 1 | | | | | |
| DC.S1.1120 | Preparation of design report including design intention and list of design parameters / assumptions | 25 | 0 | 100% | 100% | 07-Dec-20 | 31-Dec-20 | 07-Dec-20 A | 31-Dec-20 A | | | 07-Dec-20 | 31-Dec-20 | | | | | . 1 1 | | | | | |
| DC.S1.1130 | Preparation of process calculation and equipment sizing | 25 | 0 | 100% | 100% | 01-Jan-21 | 25-Jan-21 | 01-Jan-21 A | 25-Jan-21 A | | | 01-Jan-21 | 25-Jan-21 | | | | | | | | | | |
| DC.S1.1140 | Preparation of general layout and equipment location plan | 20 | 0 | 100% | 100% | 26-Jan-21 | 14-Feb-21 | 26-Jan-21 A | 14-Feb-21 A | | | 26-Jan-21 | 14-Feb-21 | | | - | | r | | | | , . | |
| DC S1.1140 | Preparation of control philosophy | Q . | 0 | 100% | 100% | 20-Jarr-21 15_Feh_21 | 23.Feb.21 | 25-Jail+21 A 15-Feh-21 A | 23.Feb.21.A | | | 25-Jair-21 15-Feb-21 | 23.Feb.21 | | | | | | | | | | |
| DC,S1,1150 DC,S1,1160 | | 19 | 0 | 10070 | 10070 | 10.00 E | 20.002. | 10 1 00 2 1 1 1 | 25-Mar-21 A | | | 07-Mar-21 | 25-Mar-21 | | | | | 1 1 1 | | | | | |
| DC.S1.1160 DC.S1.1170 | Preparation of remaining content of technical prosposal Draft Submission | 19 | 0 | 100% | 100% | 07-Mar-21 | 25-Mar-21 25-Mar-21 | 07-Mar-21 A | 25-Mar-21 A 25-Mar-21 A | | | 07-War-21 | 25-Mar-21 25-Mar-21 | | | | | 1 1 1 | | | | | |
| | | | _ | | | 00 14 04 | | 001101 | | | | 00.04 01 | | | | 🐪 | . ! ' | 1 1 1 | | | | | |
| DC,S1,1180 | | 27 | 0 | 100% | 100% | 26-Mar-21 | 21-Apr-21 | 26-Mar-21 A | 21-Apr-21 A | | | 26-Mar-21 | 21-Apr-21 | | | | | ıii | | | | | - 3 |
| DC.S1.1190 | The same resident | 34 | 0 | 100% | 100% | 22-Apr-21 | 25-May-21 | 22-Apr-21 A | 25-May-21 A | | | 22-Apr-21 | 25-May-21 | | | | | 1 1 1 | | | | | |
| Civil and Structu | ural Submission | | | 100% | | 23-Dec-20 | 29-Apr-21 | 23-Dec-20 A | 29-Apr-21 A | | | 23-Dec-20 | 29-Apr-21 | | | | | . 1 1 | | | | | |
| DC.S1.1680 | | 54 | 0 | 100% | 100% | 23-Dec-20 | 14-Feb-21 | 23-Dec-20 A | 14-Feb-21 A | | | 23-Dec-20 | 14-Feb-21 | | | [- | . ! ' | 111 | | | | | |
| DC.S1.1690 | Preparation of BIM Modeling | 13 | 0 | 100% | 100% | 15-Feb-21 | 27-Feb-21 | 15-Feb-21 A | 27-Feb-21 A | | | 15-Feb-21 | 27-Feb-21 | | | • | | . 1 1 | | | | | |
| DC S1 1700 | Submission of Draft Technical Proposal | 0 | 0 | 100% | 100% | 28-Feb-21 | 28-Feb-21 | 28-Feb-21 A | 28-Feb-21 A | | | 28-Feb-21 | 28-Feb-21 | | | | | 111 | | | | | |
| DG.S1.1700 | | | | 100% | 100% | 28-Feb-21 | 26-Mar-21 | 28-Feb-21 A | 26-Mar-21 A | | | 28-Feb-21 | 26-Mar-21 | | | 11 | | ····· | | | | | - 1 |
| DC.S1.1700 DC.S1.1710 | Draft Submission Comment and Approval | 27 | 0 | 10076 | 10070 | | | | | | | | | | | | | | | | | | |
| | | 27 34 | 0 | 100% | 100% | 27-Mar-21 | 29-Apr-21 | 27-Mar-21 A | 29-Apr-21 A | | | 27-Mar-21 | 29-Apr-21 | | | | | 1 | | | | | |



| ., | Activity Name | Ori, Dur (d) | TRA (ch | Time Flanced 02 | Actual | Actual Start | Actual Finish | Early Start | Early Finish Late St | art Late Finish | Farly Start | Farly Finish | Amended | Total | 20 | 21 | | 2023 | | | 2023 | | 202 | 4 |
|---|--|--|--|--|--|--|--|---|--|-----------------|--|--|------------|---------|---|------|-------|-------|------|-------|------|-------------|-------|-------|
| | | | Tion (d) | rane clapsed % | Workdone % | Actual start | | Carry Start | | Late Fillish | (Rev.17) | (control) | Activities | Float D | JFM4MJ | JASO | ND JF | MA JJ | ASON | DJFMA | JJA | SONDJE | MAMJ. | ASONE |
| S1.1270 | Did Garinoviii | 0 | 0 | 100% | 100% | | 25-Mar-21 | | 25-Mar-21 A | | | 25-Mar-21 | | | 8 | | | | | | | | | |
| C.S1.1280 | The state of the s | 27 | 0 | 100% | 100% | 26-Mar-21 | 21-Apr-21 | 26-Mar-21 A | 21-Apr-21 A | | 26-Mar-21 | 21-Apr-21 | | | | | | | | | | | | |
| 0,81,1290 | Final Submission | 34 | 0 | 100% | 100% | 22-Apr-21 | 25-May-21 | 22-Apr-21 A | 25-May-21 A | | 22-Apr-21 | 25-May-21 | | | | | | 1 1 | | | | | | |
| echnical Propo | osal for Electrical Works at CCSTW | | | 100% | | 27-Nov-20 | 25-May-21 | 27-Nov-20 A | 25-May-21 A | | 27-Nov-20 | 25-May-21 | | H | | | | | | | | | | |
| C,S1,1310 | Preparation and approval of content page | 10 | 0 | 100% | 100% | 27-Nov-20 | 06-Dec-20 | 27-Nov-20 A | 06-Dec-20 A | | 27-Nov-20 | 06-Dec-20 | | | | | | | | | | | | |
| C.S1.1320 | | 25 | 0 | 100% | 100% | 07-Dec-20 | 31-Dec-20 | 07-Dec-20 A | 31-Dec-20 A | | 07-Dec-20 | 31-Dec-20 | | - | | | | | | | | | | |
| C.S1.1330 | Preparation of process calculation and equipment sizing | 25 | 0 | 100% | 100% | 01-Jan-21 | 25-Jan-21 | 01-Jan-21 A | 25-Jan-21 A | | 01-Jan-21 | 25-Jan-21 | | | • | | | · įį | | | | ÷ | | |
| 0C.S1.1340 | | 20 | 0 | 100% | 100% | 26-Jan-21 | 25-Jain-21 14-Feb-21 | 26-Jan-21 A | 14-Feb-21 A | | 26-Jan-21 | 14-Feb-21 | | | | | | | | | | | | |
| | | | 0 | | | | | | | | | | | | • | | | 1 1 | -1 | | | | | |
| DC.S1.1350 | Preparation of control philosophy | 20 | | 100% | 100% | 15-Feb-21 | 06-Mar-21 | 15-Feb-21 A | 06-Mar-21 A | | 15-Feb-21 | 06-Mar-21 | | | | | | | | | | | | |
| DC,S1,1360 | Preparation of remaining content of technical prosposal | 19 | 0 | 100% | 100% | 07-Mar-21 | 25-Mar-21 | 07-Mar-21 A | 25-Mar-21 A | | 07-Mar-21 | 25-Mar-21 | | | | | | | | | | | | |
| DC,S1,1370 | | 0 | 0 | 100% | 100% | | 26-Mar-21 | | 26-Mar-21 A | | | 26-Mar-21 | | [] | 8 | l | | .ļļ. | | | | ļļ | | |
| DC,S1,1380 | 7,7 | 27 | 0 | 100% | 100% | 26-Mar-21 | 21-Apr-21 | 26-Mar-21 A | 21-Apr-21 A | | 26-Mar-21 | 21-Apr-21 | | | - | | | | | | | | | |
| OC,S1.1390 | Final Submission | 34 | 0 | 100% | 100% | 22-Apr-21 | 25-May-21 | 22-Apr-21 A | 25-May-21 A | | 22-Apr-21 | 25-May-21 | | | - | | | 1 1 | | | | | | |
| echnical Propo | osal for Temp, Works Design for the 1st 3months of ECI S2 | | | 100% | | 16-Jan-21 | 23-May-21 | 16-Jan-21 A | 23-May-21 A | | 16-Jan-21 | 23-May-21 | | | | | | | | | | | | |
| DC.S1.1410a | Preparation and approval of Technical Prosposal for ELS Design of Sludge Digester Building | 67 | 0 | 100% | 100% | 16-Jan-21 | 23-Mar-21 | 16-Jan-21 A | 23-Mar-21 A | | 16-Jan-21 | 23-Mar-21 | | | _ | | | | -1 | | | | | |
| C.S1.1410b | | 67 | 0 | 100% | 100% | 16-Jan-21 | 23-Mar-21 | 16-Jan-21 A | 23-Mar-21 A | | 16-Jan-21 | 23-Mar-21 | | | _ | | | | | | | | | |
| 0C,S1,1410c | Preparation and approval of Technical Proposal for ELS Design of MBR Treatment Facilities | 67 | 0 | 100% | 100% | 16-Jan-21 | 23-Mar-21 | 16-Jan-21 A | 23-Mar-21 A | | 16-Jan-21 | 23-Mar-21 | | | _ | | | 1 1 | | 1 | | 1 | | |
| C,S1,1410d | Preparation and approval of Technical Proposal for ELS of 750mm diameter emergency bypass diversion a | 67 | 0 | 100% | 100% | 16-Jan-21 | 23-Mar-21 | 16-Jan-21 A | 23-Mar-21 A | | 16-Jan-21 | 23-Mar-21 | | -1 | _ | | | | | | | | | |
| C,S1,1420 | Draft Submission | 0 | 0 | 100% | 100% | | 23-Mar-21 | | 23-Mar-21 A | | | 23-Mar-21 | | | * | | | | | | | | | |
| OC.S1.1430 | Draft Submission Comment and Approval | 27 | 0 | 100% | 100% | 24-Mar-21 | 19-Apr-21 | 24-Mar-21 A | 19-Apr-21 A | | 24-Mar-21 | 19-Apr-21 | | | 1 | | | | -1 | | | | | |
| C.S1.1440 | | 34 | 0 | 100% | 100% | 20-Apr-21 | 23-May-21 | 20-Apr-21 A | 23-May-21 A | | 20-Apr-21 | 23-May-21 | - | | _ | | | | | | | | | |
| | | | _ v | | 100% | | | | | | | - | | | | | | . j j | | | | | | |
| - | osal for Accommodation for the Project Manager's, Supervisor's & Contractor's Co-Office | | | 100% | 4000 | 27-Nov-20 | 25-Mar-21 | 27-Nov-20 A | 25-Mar-21 A | | 27-Nov-20 | 25-Mar-21 | | | | | | 1 1 | | | | | | |
| C.S1.1460 | ECI Stage 1 - Technical proposal for accommodation for the Project Manager's, Supervisior's & Contractor's | 119 | 0 | 100% | 100% | 27-Nov-20 | 25-Mar-21 | 27-Nov-20 A | 25-Mar-21 A | | 27-Nov-20 | 25-Mar-21 | | | | | | | | | | | | |
| | osal for DfMA including application of prefabrication and MiC | | | 100% | | 26-Jan-21 | 29-Jun-21 | 26-Jan-21 A | 29-Jun-21 A | | 26-Jan-21 | 29-Jun-21 | | | | 1 | | | | | | | | |
| OC.S1.1480 | Preparation and approval of content page | 46 | 0 | 100% | 100% | 26-Jan-21 | 12-Mar-21 | 26-Jan-21 A | 12-Mar-21 A | | 26-Jan-21 | 12-Mar-21 | | | - | | | | | | | | | |
| C.S1.1490 | | 30 | 0 | 100% | 100% | 13-Mar-21 | 11-Apr-21 | 13-Mar-21 A | 11-Apr-21 A | | 13-Mar-21 | 11-Apr-21 | | | | 1 | | J. J. | | L | | <u> </u> | | |
| C.S1.1500 | Preparation of design memorandum for E&M DfMA | 30 | 0 | 100% | 100% | 13-Mar-21 | 11-Apr-21 | 13-Mar-21 A | 11-Apr-21 A | | 13-Mar-21 | 11-Apr-21 | | | • | | | | | 1 | | | | |
| C.S1.1530 | Preparation of remaining content of technical prosposal | 19 | 0 | 100% | 100% | 12-Apr-21 | 30-Apr-21 | 12-Apr-21 A | 30-Apr-21 A | | 12-Apr-21 | 30-Apr-21 | | | • | | | | | | | | | |
| C.S1.1540 | | 0 | 0 | 100% | 100% | | 30-Apr-21 | <u> </u> | 30-Apr-21 A | | | 30-Apr-21 | | | 8 | | | 1 1 | | | | | | |
| DC.S1.1550 | | 24 | 0 | 100% | 100% | 01-May-21 | 24-May-21 | 01-May-21 A | 24-May-21 A | | 01-May-21 | 24-May-21 | | | • | | | | | | | | | |
| OC S1 1560 | · · | 36 | 0 | 100% | 100% | 25-May-21 | 29-Jun-21 | 25-May-21 A | 29-Jun-21 A | | 25-May-21 | 29-Jun-21 | | - | | | | | | | | | | |
| 20.01.1000 | ATION WORKS | سينت | الشا | 100% | 10010 | 27-Nov-20 | 15-May-21 | 27-Nov-20 A | 15-May-21 A | | 27-Nov-20 | 15-May-21 | | - | | | | ļ | | | | | | |
| C.S1.1680a | Design of MiC Co-Office | 15 | 0 | 100% | 100% | 06-Mar-21 | 23-Mar-21 | 06-Mar-21 A | 23-Mar-21 A | | 06-Mar-21 | 23-Mar-21 | | | | | | 1 1 | -1 | | | | | |
| IC.S1.1580b | ů . | 44 | 0 | 100% | | | | | | | | 23-Mar-21 23-Mar-21 | | | | | | 1 1 | -1 | | | | | |
| 0101110000 | Fabrication of MiC Co-Office | | | | 100% | 28-Jan-21 | 23-Mar-21 | 28-Jan-21 A | 23-Mar-21 A | | 28-Jan-21 | Lo mor L | | | | | | | | | | | | |
| C,S1,1590 | Site clearance, set up site hoarding, provision of temporary fence, and erection of project signboard | 164 | 6 | 100% | 100% | 27-Nov-20 | 15-May-21 | 27-Nov-20 A | 15-May-21 A | | 27-Nov-20 | 15-May-21 | | | | | | | -1 | | | | | |
| DC.S1.1600 | Structural Condition Survey | 34 | 2 | 100% | 100% | 10-Apr-21 | 15-May-21 | 10-Apr-21 A | 15-May-21 A | | 10-Apr-21 | 15-May-21 | | | | ļİ | | ļİ. | | | | <u>.</u> | | |
| C.S1.1630 | Ground Investigation (45 nos, 3 rig, 2leam) with relevant subletting and site setup | 82 | 6 | 100% | 100% | 20-Jan-21 | 40.1104 | | | | 20-Jan-21 | 10-May-21 | | | | | | | | | | | | |
| C.S1.1640 | Setup of monitoring and instrumentation system | 119 | | | | | 10-May-21 | 20-Jan-21 A | 10-May-21 A | | | | | | | | | | -1 | 1 1 | 1 | : [| | |
| | | | 8 | 100% | 100% | 02-Jan-21 | 08-May-21 | 20-Jan-21 A 02-Jan-21 A | 10-May-21 A 08-May-21 A | | 02-Jan-21 | 08-May-21 | | | - | 1 1 | | | | | | | | |
| 0C,S1,1660 | | 56 | 8 | 100% | | | | | | | 02-Jan-21 27-Nov-20 | 08-May-21 25-Jan-21 | | | | | | | | | | | | |
| C,S1,1660 | | 56 28 | | | 100% | 02-Jan-21 | 08-May-21 | 02-Jan-21 A | 08-May-21 A | | | | | | • | | | | | | | | | |
| C,S1,1660 C,S1,1670 | Initial site survey record ConductUU detection and issuance of UU detection report | | 4 | 100% | 100% | 02-Jan-21 27-Nov-20 | 08-May-21 25-Jan-21 | 02-Jan-21 A 27-Nov-20 A | 08-May-21 A 25-Jan-21 A | | 27-Nov-20 | 25-Jan-21 | | | | | | | | | | | | |
| D,S1,1660 D,S1,1670 D,S1,1671a | Initial site survey record Conduct UU detection and issuance of UU detection report Installation of Piezometer PS1 to PS3 | 28 | 4 2 | 100% 100% | 100% 100% 100% | 02-Jan-21 27-Nov-20 21-Dec-20 31-Mar-21 | 08-May-21 25-Jan-21 19-Jan-21 15-May-21 | 02-Jan-21 A 27-Nov-20 A 21-Dec-20 A 31-Mar-21 A | 08-May-21 A 25-Jan-21 A 19-Jan-21 A 15-May-21 A | | 27-Nov-20 21-Dec-20 31-Mar-21 | 25-Jan-21 19-Jan-21 15-May-21 | | | | | | | | | | | | |
| C,S1,1660 C,S1,1670 C,S1,1671a law Sewerage S | Initial site survey record Conduct UU detection and issuance of UU detection report [Installation of Paccomiter PS1 to PS3 Sampling Survey | 28 46 | 4 2 | 100% 100% 100% 100% | 100% 100% 100% 100% | 02-Jan-21 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 | 08-May-21 25-Jan-21 19-Jan-21 15-May-21 06-Feb-21 | 02-Jan-21 A 27-Nov-20 A 21-Dec-20 A 31-Mar-21 A 27-Nov-20 A | 08-May-21 A 25-Jan-21 A 19-Jan-21 A 15-May-21 A 06-Feb-21 A | | 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 | 25-Jan-21 19-Jan-21 15-May-21 06-Feb-21 | | | | | | | | | | | | |
| DC,S1,1660 DC,S1,1670 DC,S1,1671a Raw Sewerage S DC,S1,1610a | Initial site survey record Conduct UU detection and issuance of UU detection report Installation of Piezoneter PS1 to PS3 Sampling Survey Conduct Initial Recomaissance Visit | 28 46 | 4 2 0 | 100% 100% 100% 100% | 100% 100% 100% 100% | 02-Jan-21 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 | 08-May-21 25-Jan-21 19-Jan-21 15-May-21 06-Feb-21 10-Dec-20 | 02-Jan-21 A 27-Nov-20 A 21-Dec-20 A 31-Mar-21 A 27-Nov-20 A 27-Nov-20 A | 08-May-21 A 25-Jan-21 A 19-Jan-21 A 16-May-21 A 06-Feb-21 A 10-Dec-20 A | | 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 | 25-Jan-21 19-Jan-21 15-May-21 06-Feb-21 10-Dec-20 | | | - | | | | | | | | | |
| C,S1,1660 C,S1,1670 C,S1,1671a law Sewerage S DC,S1,1610a DC,S1,1610b | Initial site survey record Conduct UU detection and issuance of UU detection report Installation of Piezoneter PS1 to PS3 Sampling Survey Conduct Initial Reconnaissance Visit Submit Report of Initial Reconnaissance Visit | 28 46 13 5 | 4 2 0 | 100% 100% 100% 100% 100% 100% | 100% 100% 100% 100% 100% | 02-Jan-21 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 11-Dec-20 | 08-May-21 25-Jan-21 19-Jan-21 15-May-21 06-Feb-21 10-Dec-20 15-Dec-20 | 02-Jan-21 A 27-Nov-20 A 21-Dec-20 A 31-Mar-21 A 27-Nov-20 A 27-Nov-20 A 11-Dec-20 A | 08-May-21 A 25-Jan-21 A 19-Jan-21 A 15-May-21 A 06-Feb-21 A 10-Dec-20 A 15-Dec-20 A | | 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 11-Dec-20 | 25-Jan-21 19-Jan-21 15-May-21 06-Feb-21 10-Dec-20 15-Dec-20 | | | • | | | | | | | | | |
| C.S1,1660 C.S1,1670 C.S1,1671a taw Sewerage S DC.S1,1610a DC.S1,1610b DC.S1,1610c | Initial site survey record Conduct UI detection and issuance of UIU detection report Installation of Piccorneler PS1 to PS3 Sampling Survey Conduct Initial Recornalissance Visit Dubmit Report Initial Recornassance Visit Approved of Report of Initial Recornassance Visit | 28 46 13 5 7 | 1 0 0 | 100% 100% 100% 100% 100% 100% 100% | 100% 100% 100% 100% 100% 100% | 02-Jan-21 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 11-Dec-20 16-Dec-20 | 08-May-21 25-Jan-21 19-Jan-21 15-May-21 06-Feb-21 10-Dec-20 15-Dec-20 22-Dec-20 | 02-Jan-21 A 27-Nov-20 A 21-Dec-20 A 31-Mar-21 A 27-Nov-20 A 27-Nov-20 A 11-Dec-20 A | 08-May-21 A 25-Jan-21 A 19-Jan-21 A 15-May-21 A 06-Feb-21 A 10-Dec-20 Λ 15-Dec-20 A 22-Dec-20 Λ | | 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 11-Dec-20 16-Dec-20 | 25-Jan-21 19-Jan-21 15-May-21 06-Feb-21 10-Dec-20 15-Dec-20 22-Dec-20 | | | | | | | | | | | | |
| C.S1,1660 C.S1,1670 C.S1,1671a aw Sewerage S C.S1,1610a C.S1,1610b C.S1,1610c C.S1,1610d | Initial site survey record Conduct UI detection and issuance of UII detection report Initialization of Piezomder PS1 to PS3 Sampling Survey Conduct Initial Recommissance Visit Submit Report of Initial Recommissance Visit Approved (Report of Initial Recommissance Visit Preparation work for Raw Sewage Sampling | 28 46 13 5 7 | 1 0 0 0 | 100% 100% 100% 100% 100% 100% 100% | 100% 100% 100% 100% 100% 100% 100% | 02-Jan-21 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 11-Dec-20 16-Dec-20 23-Dec-20 | 08-May-21 25-Jan-21 19-Jan-21 16-May-21 06-Feb-21 10-Dec-20 15-Dec-20 22-Dec-20 29-Dec-20 | 02-Jan-21 A 27-Nov-20 A 21-Dec-20 A 31-Mar-21 A 27-Nov-20 A 27-Nov-20 A 11-Dec-20 A 16-Dec-20 A 23-Dec-20 A | 08-May-21 A 25-Jan-21 A 19-Jan-21 A 19-Jan-21 A 16-May-21 A 06-Feb-21 A 10-Dec-20 A 15-Dec-20 A 22-Dec-20 A | | 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 11-Dec-20 16-Dec-20 23-Dec-20 | 26-Jan-21 19-Jan-21 15-May-21 06-Feb-21 10-Dec-20 15-Dec-20 22-Dec-20 29-Dec-20 | | | | | | | | | | | | |
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| .51.1660 .51.1670 .51.1670 .51.1670 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1610 .51.1600 | Initial ate survey record Conduct UU detection and issuance of UU detection report Initialization of Picconder PS1 to PS3 Sampling Survey Conduct Initial Recomassance Visit Approved of Report of Initial Recomassance Visit Approved of Report of Initial Recomassance Visit Approved of Report of Initial Recomassance Visit Approved of Report of Initial Recomassance Visit Preparation work for Raw Sewage Sampling Conduct Raw Sewage Sampling Submission of Survey Report Comment and Approval of Survey Report Submission of Final Survey Report Monitoring System Carry out site investigation and submit Recomassance Survery Report Completion of Section 1 (Working Days) Spranding time existing Park Sine Sewage Pumping Station (PSSPS) NT, FABRICATION and DELIVERY of MAJOR E&M EQUIPMENT Torrefering of Subcondator Equipment Submission and Approval (Other equipment) Equipment Submission and Approval (Other equipment) Equipment Submission and Approval (Other equipment) | 28 46 13 5 7 7 7 144 21 2 2 2 | 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 100% 100% 100% 100% 100% 100% 100% 100% | 100% 100% 100% 100% 100% 100% 100% 100% | 02-Jan-21 27-Nov-20 21-Dec 20 31-Mar-21 27-Nov-20 11-Dec 20 16-Dec 20 13-Jan-21 03-Feb-21 03-Feb-21 27-Nov-20 13-Jan-21 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 18-Mar-21 12-Jul-21 12-Jul-21 13-Jul-21 | 08-May-21 25-Jan-21 19-Jan-21 19-Jan-21 19-May-21 08-Feb-21 10-Doc-20 22-Doc-20 22-Doc-20 23-Doc-20 13-Jan-21 08-Feb-21 08-Feb-21 10-Jan-21 10-Jan-21 25-May-21 14-Jan-22 25-May-21 14-Jan-22 09-Oct-21 | 02-Jan-21 A 27-Nov-20 A 21-Dec-20 A 31-Mar-21 A 27-Nov-20 A 27-Nov-20 A 11-Dec-20 A 16-Dec-20 A 30-Dec-20 A 13-Jan-21 A 03-Feb-21 A 05-Feb-21 A 05-Feb-21 A 27-Nov-20 A 27-Nov-20 A 27-Nov-20 A 13-Jan-21 A 31-Jan-21 A 31-Jan-21 A 31-Jan-21 A | 08-May-21 A 25-lan-21 A 19-lan-21 A 19-lan-21 A 19-lan-21 A 19-lan-21 A 10-Dro-20 A 15-Dro-20 A 22-Dro-20 A 10-lan-21 A 10-lan-21 A 22-May-21 A 22-May-21 A 22-May-21 A 22-Dro-20 S 25-May-21 A 25-Dro-20 S 25-May-21 A 25-Dro-20 S | | 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 11-Dec-20 15-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 | 25-Jan-21 19-Jan-21 19-Jan-21 19-Jan-21 19-Jan-21 10-Ge-6b-21 10-Ge-20 29-De-20 29-De-20 12-Jan-21 04-Feb-21 04-Feb-21 10-Jan-21 10-Jan-21 10-Jan-21 29-May-21 10-Jan-22 25-May-22 25-May-22 25-May-21 22-Jan-22 04-Oct-21 | | 0 666 | • • • • • • • • • • • • • • • • • • • | | | | | , | | | | |
| S1.1660 S1.1670 S1.1670 S1.1670 W Sewerage S S1.1610 US.1.1610b S.S1.1610b | Initial site survey record Conduct UI desection and issuance of UI detection report Initialization of Picconder PS1 to PS3 Sampling Survey Conduct Initial Reconnaissance Visit Submit Report of Initial Reconnaissance Visit Approved of Report of Initial Reconnaissance Visit Approved of Report of Initial Reconnaissance Visit Preparation work for Raw Sewage Sampling Conduct Raw Sewage Sampling Submits ond Survey Report Comment and Approved of Survey Report Submission of Survey Report Monitoring System Carry out site investigation and submit Reconnaisance Survery Report Corp section 1 Completion of Section 1 (Working Days) Deparating the existing Pak She Sewage Pumping Station (PSSPS) VIT, FABRICATION and DELIVERY of MAJOR E&M EQUIPMENT Tendering of Subcontrator Equipment Stamssion and Approval (Other equipment) Equipment Stamssion and Approval (Perstooks) | 28 46 113 5 7 7 114 21 2 2 42 42 45 45 45 45 46 47 40 189 | 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 100% 100% 100% 100% 100% 100% 100% 100% | 100% 100% 100% 100% 100% 100% 100% 100% | 02-Jan-21 27-Nov20 31-Mar-21 27-Nov20 31-Mar-21 27-Nov20 11-Des-20 11-Des-20 11-Des-20 30-Des-20 30-Des-20 13-Jan-21 05-Feb-21 27-Nov20 27-Nov20 27-Nov20 27-Nov20 27-Nov20 27-Nov20 31-Jan-21 19-Mar-21 19-Mar-21 12-Jul-21 28-May-21 31-Aug-21 31-Aug-21 | 08-May-21 25-Jan-21 19-Jan-21 19-Jan-21 19-Jan-21 10-Droc-20 15-Droc-20 15-Droc-20 22-Droc-20 22-Droc-20 12-Jan-21 02-Peb-21 10-Jan-21 10-Jan-21 23-May-21 24-May-21 25-May-21 14-Jan-22 09-0ct-21 09-0ct-21 09-0ct-21 09-0ct-21 09-May-21 | 02-Jan-21 A 27-Nov-20 A 21-Dec-20 A 31-Mar-21 A 27-Nov-20 A 11-Dec-20 A 11-Dec-20 A 16-Dec-20 A 30-Dec-20 A 30-Dec-20 A 30-Dec-20 A 23-Dec-20 A 23-Dec-20 A 23-Dec-20 A 23-Dec-20 A 13-Jan-21 A 27-Nov-20 A 27-Nov-20 A 27-Nov-20 A 12-Jul-21 A 12-Jul-21 A 31-Aug-21 A 31-Aug-21 A | 08-May-21 A 25-lan-21 A 15-lan-21 A 15-lan-21 A 15-May-21 A 06-feb-21 A 10-De-20 A 12-De-20 A 12-De-20 A 12-lan-21 A 06-feb-21 A 10-lan-21 A 10-lan-21 A 10-lan-21 A 10-lan-21 A 28-May-21 A | | 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 11-Dec-20 11-Dec-20 23-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 23-Dec-20 23-Dec-20 23-Dec-20 23-Dec-20 23-Dec-20 23-Dec-20 30-Dec-30 30-Dec-20 30-Dec-30 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-30 30-Dec-20 30-Dec-20 30-Dec-20 30-Dec-30 30-Dec | 25-Jan-21 19-Jan-21 19-Jan-21 19-Jan-21 19-Jan-21 19-Jan-21 10-Joc-20 19-Joc-20 29-Joc-20 12-Jan-21 04-Feb-21 10-Jan-21 10-Jan-21 29-May-21 29-May-21 29-May-21 23-May-21 23-May-21 23-May-21 23-May-21 31-Mar-21 | | 0 | • • • • • • • • • • • • • • • • • • • | | | | | - | | | | |
| S.1.1660 S.1.1670 S.1.1670 S.1.1670 S.1.1670 S.1.1610 | Initial site survey record Conduct UU defection and issuance of UU defection report Initialization of Picconder PS1 to PS3 Sampling Survey Conduct Initial Reconnaissance Visit Submit Report of Initial Reconnaissance Visit Approval of Report of Initial Reconnaissance Visit Approval of Report of Initial Reconnaissance Visit Preparation work for Raw Sawage Sampling Conduct Raw Sawage Sampling Submission of Survey Report Submission of Survey Report Submission of Survey Report Submission of Final Survey Report Submission of Final Survey Report Comment and Approval of Survey Report Carry at the Investigation and submit Reconnaisance Survery Report OF SECTION 1 Completion of Section 1 (Working Days) Degrading the existing Pak She Sewage Pumping Station (PSSPS) VIT, FABRICATION and DELIVERY of MAJOR E&M EQUIPMENT Tradeling of Subcritation Equipment Submission and Approval (Other equipment) Equipment Submission and Approval (Ceren Pumps) | 28 46 13 5 7 7 7 14 21 2 2 2 0 | 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 100% 100% 100% 100% 100% 100% 100% 100% | 100% 100% 100% 100% 100% 100% 100% 100% | 02-Jan-21 27-Nov-20 21-Dec 20 31-Mar-21 27-Nov-20 11-Dec 20 16-Dec 20 13-Jan-21 03-Feb-21 03-Feb-21 27-Nov-20 13-Jan-21 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 18-Mar-21 12-Jul-21 12-Jul-21 13-Jul-21 | 08-May-21 25-Jan-21 19-Jan-21 19-Jan-21 19-May-21 08-Feb-21 10-Doc-20 22-Doc-20 22-Doc-20 23-Doc-20 13-Jan-21 08-Feb-21 08-Feb-21 10-Jan-21 10-Jan-21 25-May-21 14-Jan-22 25-May-21 14-Jan-22 09-Oct-21 | 02-Jan-21 A 27-Nov-20 A 21-Dec-20 A 31-Mar-21 A 27-Nov-20 A 27-Nov-20 A 11-Dec-20 A 16-Dec-20 A 30-Dec-20 A 13-Jan-21 A 03-Feb-21 A 05-Feb-21 A 05-Feb-21 A 27-Nov-20 A 27-Nov-20 A 27-Nov-20 A 13-Jan-21 A 31-Jan-21 A 31-Jan-21 A 31-Jan-21 A | 08-May-21 A 25-lan-21 A 19-lan-21 A 19-lan-21 A 19-lan-21 A 19-lan-21 A 10-Dro-20 A 15-Dro-20 A 22-Dro-20 A 10-lan-21 A 10-lan-21 A 22-May-21 A 22-May-21 A 22-May-21 A 22-Dro-20 S 25-May-21 A 25-Dro-20 S 25-May-21 A 25-Dro-20 S | | 27-Nov-20 21-Dec-20 31-Mar-21 27-Nov-20 27-Nov-20 11-Dec-20 11-Dec-20 23-Dec-20 30-Dec-20 30-Dec-20 30-Dec-20 23-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 27-Nov-20 28-May-21 28-May-21 28-May-21 28-May-21 | 25-Jan-21 19-Jan-21 19-Jan-21 19-Jan-21 19-Jan-21 10-Ge-6b-21 10-Ge-20 29-De-20 29-De-20 12-Jan-21 04-Feb-21 04-Feb-21 10-Jan-21 10-Jan-21 10-Jan-21 29-May-21 10-Jan-22 25-May-22 25-May-22 25-May-21 22-Jan-22 04-Oct-21 | | 0 56 | *************************************** | | | | | | | | | |

Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 17th EM&A Report – December 2022





| ctivity ID | Activity Name | Ori, Dur (d) | TRA (d) | Time Elapsed % | Actual | Actual Start | Actual Finish | Early Start | Early Finish | Late Start | Late Finish | Early Start (Rev.17) | Early Finish Amended | Total | | 021 | 20: | 2 | 2023 | 20 | 24 | 2 |
|--|--|--------------|---------|----------------|------------|---|---------------|--------------------------|------------------------|---|-------------|-------------------------|------------------------|-------|---------------|----------|----------|----------------|---------|--------------|----------------|------------|
| DD 00 4040-10 | Processor (UPP) | | 0 | 4000 | Workdone % | 00 1 00 | 00 1 00 | DC 1== DC 1 | 00 1 00 : | | | | (Rev.17) Activities | Float | DJFMAM | JUNASION | DJFMA J | ASONDIFI | JJASONI | JEMAMA | NA SIGN D | JEMAN |
| DC.S2.1010a40 | Procurement (VSD) | 1 | 0 | 100% | 100% | 26-Jan-22 | 26-Jan-22 | 26-Jan-22 A | 26-Jan-22 A | | | 23-Jan-21 | 23-Jan-21 | | II. : | | | | | | | (i |
| DC,S2,1010a50 | Procurement (Flowmeter) | 126 | 0 | 100% | 100% | 26-Jan-22 | 27-Jan-22 | 26-Jan-22 A | 27-Jan-22 A | | | 26-Jan-22 | 26-Jan-22 | | | .ii | | | | | | l |
| DC.S2.1010a60 | Procurement (FRP Cover of Screw Pump) | 1 | 0 | 100% | 100% | 30-May-22 | 30-May-22 | 30-May-22 A | 30-May-22 A | | | 30-May-22 | 30-May-22 | | | | | | | | | |
| DC.S2.1010a70 | Procurement (LVSB) | 1 | 0 | 100% | 100% | 05-Mar-22 | 05-Mar-22 | 05-Mar-22 A | 05-Mar-22 A | | | 05-Mar-22 | 05-Mar-22 | | | | | | | | | |
| DC,S2,1010b | Fabrication (Other equipment) | 253 | 0 | 84,58% | 80% | 28-Feb-22 | | 28-Feb-22 A | 07-Nov-22 | 12-Oct-22 | 19-Nov-22 | 28-Feb-22 | 07-Nov-22 | 12 | | | | - | | | | |
| DC.S2.1010b10 | Fabrication (Screw Pumps) | 253 | 0 | 100% | 100% | 12-Oct-21 | 29-Apr-22 | 12-Oc1-21 A | 29-Apr-22 A | | | 12-Ocl-21 | 29-Apr-22 | | | | | | | | | |
| DC,S2,1010b20 | Fabrication (Penstocks) | 131 | 0 | 100% | 100% | 19-Mar-21 | 11-Jun-21 | 19-Mar-21 A | 11-Jun-21 A | | | 19-Mar-21 | 11-Jun-21 | | - | 4 1 | | | | | | |
| DC,S2,1010b30 | Fabrication (DOU) | 142 | 0 | 100% | 100% | 30-May-22 | 28-Sep-22 | 30-May-22 A | 28-Sep-22 A | | | 30-May-22 | 28-Sep-22 | | | 11 | - | | | | | ····· |
| DC.S2.1010b40 | Fabricalion (VSD) | 101 | 0 | 100% | 100% | 28-Feb-22 | 08-Jun-22 | 28-Feb-22 A | 08-Jun-22 A | | | 28-Feb-22 | 08-Jun-22 | | | | _ | | | | | (|
| DC.S2,1010b50 | Fabrication (Flowmeter) | 148 | 0 | 100% | 100% | 20-May-22 | 18-Sep-22 | 20-May-22 A | 18-Sep-22 A | | | 20-May-22 | 18-Sep-22 | | | | | | | | | |
| DC S2 1010b60 | | 131 | 0 | 93.13% | 30% | 31-May-22 | 10-38p-22 | · · · | | 40 D 00 | 00 0 00 | - | 08-Oct-22 | 79 | | | | | | | | |
| | Fabrication (FRP Cover of Screw Pump) | | | | | - · · · · · · · · · · · · · · · · · · · | 07.100 | 31-May-22 A | 08-Oct-22 | 18-Dec-22 | 26-Dec-22 | 31-May-22 | | 79 | | | | | | | | |
| DC.S2.1010b70 | Fabrication (LVSB) | 90 | 0 | 100% | 100% | 10-May-22 | 07-Aug-22 | 10-May-22 A | 07-Aug-22 A | | | 10-May-22 | 07-Aug-22 | | | .ii | | | | | | ,l |
| DC.S2.1010b80 | Fabrication (PLC) | 162 | 0 | 100% | 100% | 10-May-22 | 28-Sep-22 | 10-May-22 A | 28-Sep-22 A | | | 10-May-22 | 28-Sep-22 | | | | | | | | | <i>i</i> 1 |
| DC,S2,1010c | Delivery (Other equipment) | 30 | 0 | 0% | 0% | | | 08-Nov-22 | 07-Dec-22 | 20-Nov-22 | 19-Dec-22 | 08-Nov-22 | 07-Dec-22 | 12 | | | | - | | | | (|
| DC.S2.1010c10 | Delivery (Screw Pump) | 94 | 0 | 100% | 100% | 30-Apr-22 | 01-Aug-22 | 30-Apr-22 A | 01-Aug-22 A | | | 30-Apr-22 | 01-Aug-22 | | : | | | • | | | | (! . |
| DC.S2.1010c20 | Delivery (Penstocks) | 37 | 0 | 100% | 100% | 12-Jun-22 | 18-Jul-22 | 12-Jun-22 A | 18-Jul-22 A | | | 12-Jun-22 | 18-Jul-22 | | | | | | | | | <i>i</i> . |
| DC,S2,1010c30 | Delvery (DOU) | 17 | 0 | 0% | 0% | | | 30-Sep-22 | 16-Oct-22 | 04-Dec-22 | 20-Dec-22 | 29-Sep-22 | 15-Oct-22 | 65 | | | |) | | | | |
| DC.S2.1010c40 | Delivery (VSD) | 34 | 0 | 100% | 100% | 09-Jun-22 | 12-Jul-22 | 09-Jun-22 A | 12-Jul-22 A | | | 09-Jun-22 | 12-Jul-22 | | [[| T | | | | | | |
| DC.S2.1010c50 | Delivery (Flowmeler) | 30 | 0 | 0% | 0% | | | 30-Sep-22 | 29-Oct-22 | 20-Dec-22 | 18-Jan-23 | 19-Sep-22 | 18-OcI-22 | 81 | 11 | | | ₽ | | | : : | |
| DC.S2.1010x60 | Delivery (FRP Cover of Screw Pump) | 37 | 0 | 0% | 0% | | | 09-Oct-22 | 14-Nov-22 | 27-Dec-22 | 01-Feb-23 | 09-Oc1-22 | 14-Nov-22 | 79 | | | | | | | | |
| DC.S2.1010c70 | Delivery (LVSB) | 29 | 0 | 100% | 100% | 08-Aug-22 | 05-Sep-22 | 08-Aug-22 A | 05-Sep-22 A | | | 08-Aug-22 | 05-Sep-22 | | 11 | | | <u> </u> | | | | |
| DC.S2.1010c/0 | Delvery (PLC) | 30 | 0 | 0% | 0% | scray'ez | oo-oop-ee | 30-Sep-22 | 29-Oct-22 | 20-Oct-22 | 18-Nov-22 | 29-Sep-22 | 28-Oct-22 | 20 | | | | | | | | |
| | · | 30 | 0 | | U% | 07 N 00 | 40.0 00 | | | 20-001-22 | 18-NOV-22 | | | 20 | i | سنسنب | | | | | | ····· |
| | RUCTURAL WORKS | | | 100% | | 27-Nov-20 | 13-Sep-22 | 27-Nov-20 A | 13-Sep-22 A | | | 27-Nov-20 | 13-Sep-22 | | | : : | | | | | | / I |
| | emergency by-pass | | | 100% | | 27-Nov-20 | 13-Sep-22 | 27-Nov-20 A | 13-Sep-22 A | | | 27-Nov-20 | 13-Sep-22 | | | | | 7 | | | | (I |
| DC.S2.1020 | Expose and install protect/support system for existing underground utilities and services (HGC, CLP,etc) | 28 | 2 | 100% | 100% | 29-Jun-21 | 03-Aug-21 | 29-Jun-21 A | 03-Aug-21 A | | | 29-Jun-21 | 03-Aug-21 | | Ш | - | | | | | | 1 |
| DC.S2.1021 | Delivery of percast concrete pipe and marhole fittings | 38 | 0 | 100% | 100% | 27-Nov-20 | 03-Jan-21 | 27-Nov-20 A | 03-Jan-21 A | | | 27-Nov-20 | 03-Jan-21 | | - | | | | | | | |
| DC.S2.1022 | Samples testing for percast concrete pipe and manhole fittings | 30 | 0 | 100% | 100% | 04-Jan-21 | 02-Feb-21 | 04-Jan-21 A | 02-Feb-21 A | | | 04-Jan-21 | 02-Feb-21 | | - | | | | | | | |
| DC.S2.1030 | Installation of ELS for TTA Stage 1 and construction of 750 dia, emergency bypass and 3 manholes (BPMH | 80 | 10 | 100% | 100% | 04-Aug-21 | 19-Nov-21 | 04-Aug-21 A | 19-Nov-21 A | | | 04-Aug-21 | 19-Nov-21 | | | | | | | | | () |
| DC.S2.1031 | Backfilling, Removal of Temporary Supports and Reinstatement of Footpath at Ping Chong Road | 30 | 3 | 100% | 100% | 20-Nov-21 | 21-Dec-21 | 20-Nov-21 A | 21-Dec-21 A | | | 20-Nov-21 | 21-Dec-21 | | | 1 11 | | | | | | |
| DC.S2.1040 | Implementation of TTA Stage 2 to enclose works area of manhole BPMH03 | 6 | 0 | 100% | 100% | 20-Nov-21 | 26-Nov-21 | 20-Nov-21 A | 26-Nov-21 A | | | 20-Nov-21 | 26-Nov-21 | | | | | | | | | |
| DC.S2.1050 | Installation of ELS and construction of 750 dia, emergency bypass for connection to manhole BPMH03 | 40 | 7 | 100% | 100% | 27-Nov-21 | 24-Jan-22 | 27-Nov-21 A | 24-Jan-22 A | | | 27-Nov-21 | 24-Jan-22 | | | 1 1 | <u> </u> | | | | | () |
| DC.S2.1070 | Backfilling, Removal of Temporary Supports and reinstatement of existing road at Ping Chong Road | 28 | 2 | 100% | 100% | 25-Jan-22 | 03-Mar-22 | 25-Jan-22 A | 03-Mar-22 A | | | 25-Jan-22 | 03-Mar-22 | | | | | | | | | 1 |
| DC.S2.1070 | | | 1 | 100% | 100% | | | | 31-May-22 A | | | | | | | | | | | | | ····· |
| | Fipe CCTV survey, application manhole protective cost, capping and sealing of existing bypass and final co | 14 | | 100% | | 05-May-22 | 31-May-22 | 05-May-22 A | | | | 05-May-22 | 31-May-22 | | | | 1 2 | | | | | 1 |
| DC.S2.1150 | Submission of as-constructed records after completion of permanent reinstatement of the footpath | | 0 | 10010 | 100% | 04-Mar-22 | 13-Sep-22 | 04-Mar-22 A | 13-Sep-22 A | | | 04-Mar-22 | 13-Sep-22 | | | | 1 1 | | | | | (|
| DC.S2.1160 | Submission of as-constructed point cloud records after laying of the 750mm diameter precast concrete pipes | 14 | 0 | 100% | 100% | 04-Mar-22 | 13-Sep-22 | 04-Mar-22 A | 13-Sep-22 A | | | 04-Mar-22 | 13-Sep-22 | | | | | | | | | (|
| E&M WORKS | | | | 70,26% | | 20-0ct-21 | | 20-Oct-21 A | 22-Feb-23 | 30-Sep-22 | 22-Feb-23 | 20-Oct-21 | 22-Feb-23 | 0 | | | | | | | | 1 |
| DC,S2,1085a | Perparation and Submission of TTA Drawings for Pump Replacement Works | 184 | 0 | 100% | 100% | 20-Oct-21 | 22-Apr-22 | 20-Oc1-21 A | 22-Apr-22 A | | | 20-Oct-21 | 17-Jan-22 | | | - | | | | | | |
| DC.S2.1085b | Obtain Approval of TTA Drawing from relevant parties | 30 | 0 | 100% | 100% | 29-Apr-22 | 28-May-22 | 29-Apr-22 A | 28-May-22 A | | | 29-Apr-22 | 28-May-22 | | | | | | | | | 1 |
| DC.S2.1085c | Implementation of TTA for Pump Replacement Works | 1 | 0 | 100% | 100% | 24-Jun-22 | 04-Jul-22 | 24-Jun-22 A | 04-Jul-22 A | | | 24-Jun-22 | 24-Jun-22 | | : | | | | | | | (i . |
| DC,S2,1090a | Removal of Existing Penstock No,3 and Screw Pump No, 3 and Civil Works for New Installation | 23 | 0 | 100% | 100% | 19-Jul-22 | 13-Aug-22 | 19-Jul-22 A | 13-Aug-22 A | | | 19-Jul-22 | 13-Aug-22 | | | | | • <u> </u> | | | | (|
| DC.S2.1090b | Installation of New Screw Pump No.3 | 21 | 0 | 100% | 100% | 18-Aug-22 | 12-Sep-22 | 18-Aug-22 A | 12-Sep-22 A | | | 18-Aug-22 | 12-Sep-22 | | | | | - | | | | () |
| DC.S2.1090c | Screeding for the screw pump trough for Screw Pump No.3 | 11 | 0 | 100% | 100% | 13-Sep-22 | 26-Sep-22 | 13-Sep-22 A | 26-Sep-22 A | | - | 13-Sep-22 | 21-Sep-22 | | | | | | | | | (i |
| DC.S2.1090d | Perparation Works and Carry out Dry Test and Wet Test for Screw Pump No.3 | B | 0 | 12,5% | 0% | 29-Sep-22 | ev-osp-ee | 29-Sep-22 A | 06-Oct-22 | 30-Sep-22 | 06-Oct-22 | 29-Sep-22 | 21-3ep-22 06-Oct-22 | 0 | H | ÷ | | | | ļ | ļļ | ····- |
| | | 14 | 0 | 12,5% | 10% | | | | | 30-Sep-22 06-Oct-22 | 06-Oct-22 | | | 4 | 11 | | | | | | | |
| DC.S2.1090d10 | Installation of New Penstock No.3 and Site Acceptance Test | | - | | | 13-Sep-22 | | 13-Sep-22 A | 30-Sep-22 | *** *********************************** | | 13-Sep-22 | 28-Sep-22 | | | | | 1 | | | | |
| DC.S2.1091a | Removal of Existing Penstock No. 2 and Screw Pump No. 2 and Civil Works for New Installation | 12 | 0 | 0% | 0% | | | 07-Oct-22 | 20-Oct-22 | 07-Oct-22 | 20-Oct-22 | 07-Oct-22 | 20-Oct-22 | 0 | | | | [_ | | | | |
| DC.S2.1091b | Installation of New Screw Pump No.2 | 21 | 0 | 0% | 0% | | | 21-Oct-22 | 14-Nov-22 | 21-Oct-22 | 14-Nov-22 | 21-Oc1-22 | 14-Nov-22 | 0 | | | | | | | | (|
| DC.S2.1091c | Screeding for the screw pump trough for Screw Pump No.2 | 8 | 0 | 0% | 0% | | | 15-Nov-22 | 23-Nov-22 | 15-Nov-22 | 23-Nov-22 | 15-Nov-22 | 23-Nov-22 | 0 | II | .ii | 1 | _ ['] | | 1 | | İ |
| DC.S2.1091d | Perparation Works and Carry out Dry Test and Wet Test for Screw Pump No.2 | 6 | 0 | 0% | 0% | | | 24-Nov-22 | 29-Nov-22 | 24-Nov-22 | 29-Nov-22 | 24-Nov-22 | 29-Nov-22 | 0 | | | | 1 | | | | (|
| DC.S2.1091d10 | Installation of New Penstock No.2 and Site Acceptance Test | 14 | 0 | 0% | 0% | | | 21-Oct-22 | 05-Nov-22 | 12-Nov-22 | 29-Nov-22 | 21-Oc1-22 | 05-Nov-22 | 19 | П | | | | | | | (l |
| DC.S2.1092a | Removal of Existing Penstock No.1 and Screw Pump No.1 and Civil Works for New Installation | 12 | 0 | 0% | 0% | | | 30-Nov-22 | 13-Dec-22 | 30-Nov-22 | 13-Dec-22 | 30-Nov-22 | 13-Dec-22 | 0 | | | | | | | | |
| DC.S2.1092b | Installation of New Screw Pump No.1 | 21 | 0 | 0% | 0% | | | 14-Dec-22 | 09-Jan-23 | 14-Dec-22 | 09-Jan-23 | 14-Dec-22 | 09-Jan-23 * | 0 | [[] | | | • | | | | () |
| DC S2.1092c | Screeding for the screw pump trough for Screw Pump No.1 | 6 | 0 | 0% | 0% | + | | 10-Jan-23 | 16-Jan-23 | 10-Jan-23 | 16-Jan-23 | 10-Jan-23 | 16-Jan-23 | 0 | 11 | | | | | | | (l |
| DC.32.1092d | Perparation Works and Carry out Dry Test and Wet Test for Screw Pump No.1 | 7 | 0 | 0% | 0% | - | | 17-Jan-23 | 23-Jan-23 | 17-Jan-23 | 23-Jan-23 | 17-Jan-23 | 23-Jan-23 | 0 | H | + | | | | | } - | · |
| DC.S2.1092d10 | | 14 | 0 | 0% | 0% | | | 14-Dec-22 | 30-Dec-22 | 06-Jan-23 | 21-Jan-23 | | 20-Jan-23 30-Deo-22 | 18 | | | | | | | | (l |
| DC.S2.1092010 DC.S2.1100a | Installation of New Penstock No.1 and Site Acceptance Test | 14 | | | | 07.0 00 | | | | | | 14-Dec-22 | | 68 | | | | . 1 | | | | |
| | Removal of Existing Main Inlet Penstock and Civil Works for New Installation | 1.1 | 0 | 21.43% | 0% | 27-Sep-22 | | 27-Sep-22 A | 14-Oct-22 | 22-Dec-22 | 05-Jan-23 | 27-Sep-22 | 14-Oct-22 | | | | | | | | | () |
| DC.S2.1100b | Replacement of Main Inlet Penstock with Site Acceptance Test & T & C | 14 | 0 | 0% | 0% | | | 15-Oct-22 | 31-Oct-22 | 06-Jan-23 | 21-Jan-23 | 15-Oc1-22 | 31-Oct-22 | 68 | П | | | 1. | | | | |
| DC.S2.1120 | Replacement of the discharge EM flowmeter and modification of associated pipework | 12 | 0 | 0% | 0% | | | 20-Oct-22 | 02-Nov-22 | 09-Jan-23 | 21-Jan-23 | 10-Oct-22 | 22-Oct-22 | 66 | IIi | .ii | 1 | ا ا | | 1 | | <u>l</u> |
| DC.S2.1130 | Installation of Decobrization Unit 6 and associated FRP ductowork | 24 | 2 | 0% | 0% | | | 08-Dec-22 | 09-Jan-23 | 21-Dec-22 | 21-Jan-23 | 08-Dec-22 | 09-Jan-23 | 11 | | | | 1 | | | | (|
| DC.S2.1140 | Replacement of Existing Portable Emergency Generator Set by Midblille Emergency Generator Set | 58 | 2 | 0% | 0% | | | 29-Oct-22 | 10-Jan-23 | 10-Nov-22 | 21-Jan-23 | 29-Oc1-22 | 10-Jan-23 | 10 | | | | | | | | (l |
| DC.S2.1141 | Replacement of Existing LV Switchboard by New LV Switchboard, PLC Panel and UPS | 110 | 1 | 45.95% | 46% | 01-Aug-22 | | 01-Aug-22 A | 12-Dec-22 | 10-Nov-22 | 21-Jan-23 | 01-Aug-22 | 12-Dec-22 | 33 | 11 | | | - | | | | (l |
| DC,S2,1142 | Installation of Screw Pump Starters and Variable Speed Drivers | 110 | 1 | 60,36% | 60% | 13-Jul-22 | | 13-Jul-22 A | 22-Nov-22 | 30-Nov-22 | 21-Jan-23 | 13-Jul-22 | 22-Nov-22 | 49 | | | | | | | | |
| ,,1176 | Replacement of Existing Wall Mounted MCB Boards and Miscellaneous Panel in the Screw Pump House | 63 | 1 | 79.69% | 79% | 01-Aug-22 | | 01-Aug-22 A | 17-Oct-22 | 18-Nov-22 | 03-Dec-22 | 01-Aug-22 | 17-Oct-22 | 40 | 11 | | | - | | | | |
| DC \$211//3 | | 100 | | 10,00% | 100 | o I-Muy-22 | | | 17-00-22 | | 1111111 | - | | 10 | I.Ii | .ii | | | | ļ | ii | , <u>.</u> |
| DC.S2.1143 | <u> </u> | 20 | ^ | OPY | 057 | | | 40.0-100 | | | | | | | | | | | | | | |
| DC.S2.1143 DC.S2.1144 DC.S2.1145 | Neerson & Modification of Electrical System for Existing Equipment Cable Institution for Pensick Screw Pump DOU | 38 80 | 2 | 0% 62.2% | 0% 30% | 01-Aug-22 | | 18-Oct-22 01-Aug-22 A | 03-Dec-22 07-Nov-22 | 05-Dec-22 02-Dec-22 | 21-Jan-23 | 18-Oct-22 01-Aun-22 | 03-Dec-22 07-Nov-22 | 40 | | | | | | | | ١ . |

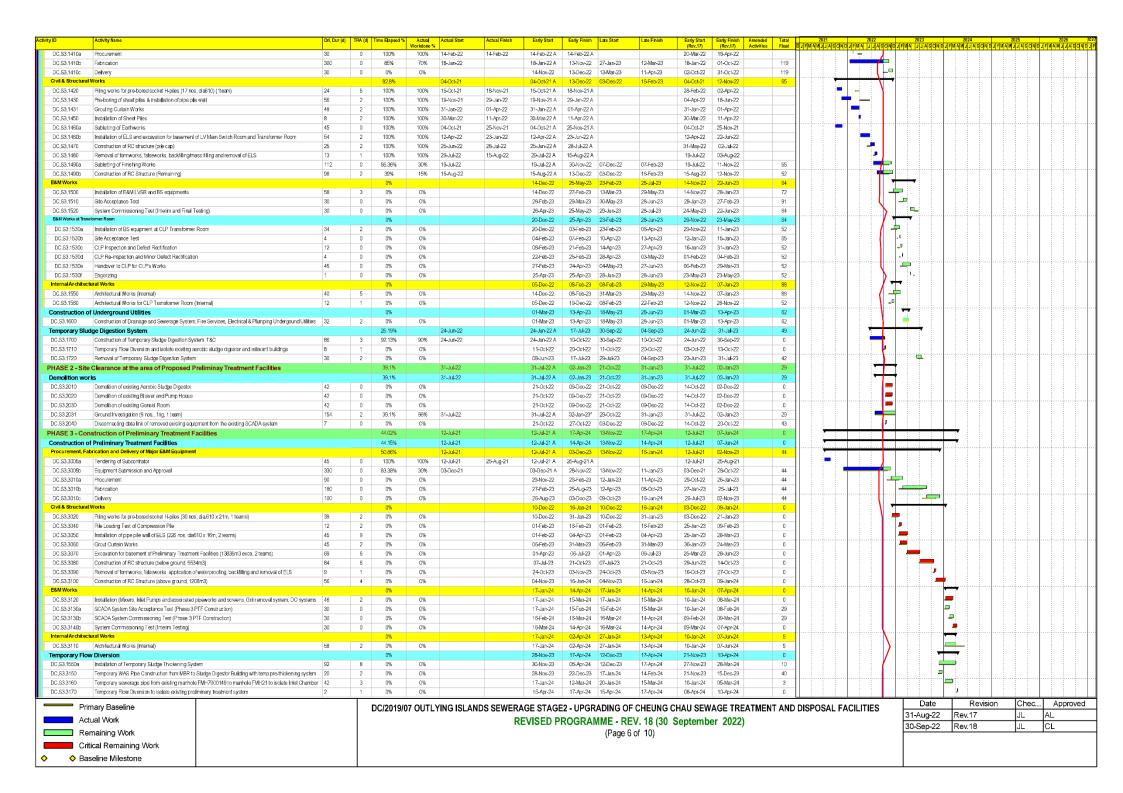


| vity ID | Activity Name | Ori. Dur (d) | TRA (d) | Time Elapsed % | Actual Workdone % | Actual Start | Actual Finish | Early Start | Early Finish | Late Start | Late Finish | Early Start (Rev. 17) | Early Finish (Rev.17) | Amended Activities | Total Float D | 2021 | Agdul | DIEMA | 2022 | OND JIFM | 2023 | advid 1 | 2024 M A M | изань |
|------------------------|--|--------------|---------|----------------|----------------------|--------------|---------------|------------------------|-------------------------|------------------------|------------------------|--------------------------|--------------------------|-----------------------|------------------|-------------|-------|---------------|--------|-------------|---------------------------------------|--------------|---------------|-------|
| DC.S2.1160b20 | O&M Training to DSD/ST2 | 5 | 0 | 0% | Workdone % | | | 09-Jan-23 | 13-Jan-23 | 18-Feb-23 | 22-Feb-23 | (Rev.17) 09-Jan-23 | (Rev.17) 13-Jan-23 | ACHACIES | Float D . | Alcinidad 1 | 7941 | - VITWA | IN NAS | -401HW | IN INITIALS | - Auloly | - 4-1-1-J | HAMP |
| DC.S2.1160b30 | Handover Inspection with DSD/ST2 | 1 | 0 | 0% | 0% | | | 09-Jan-23 20-Feb-23 | | 18-Feb-23 22-Feb-23 | 22-Feb-23 22-Feb-23 | 20-Feb-23 | 13-Jan-23 20-Feb-23 | | 2 | | | | | | | L | | |
| | · | 30 | 0 | 0% | 0% | | | 20-Feb-23 24-Jan-23 | | 24-Jan-23 | 22-Feb-23 22-Feb-23 | 20-Heb-23 24-Jan-23 | 20-Feb-23 22-Feb-23 | | 0 | | | | | | ļ <u>.</u> | ş | | |
| | Final T&C of Section 2 | 30 | U | | U% | | | | | | | | | | - | | | | | | | | | |
| | OF SECTION 2 | | | 0% | | | | 22-Feb-23 | 22-Feb-23 | 22-Feb-23 | 22-Feb-23 | 22-Feb-23 | 22-Feb-23 | | 0 | | | | | " | | | | |
| DC,S2,1170 | Completion of Section 2 (Working Days) | 0 | 0 | 0% | 0% | | | | 22-Feb-23 | | 22-Feb-23 | | 22-Feb-23 | | 0 | | | | | \$ | | | | |
| ECTION 3 | | | | 37,94% | | 27-Nov-20 | | 27-Nov-20 A | 02-Oct-25 | 30-Sep-22 | 02-Jan-26 | 27-Nov-20 | 02-Oct-25 | | 92 | | | | | | | | | |
| | struction of MBR, Sludge Disgestor Building, Transformer Room | | | 54.41% | | 27-Nov-20 | | 27-Nov-20 A | 14-Apr-24 | 30-Sep-22 | 14-Apr-24 | 27-Nov-20 | 07-Apr-24 | | 0 | | | | | | | | 7 | |
| 0C,S3,1001 | - | 21 | 0 | 100% | 100% | 21-Jun-21 | 11-Jul-21 | 21-Jun-21 A | 11-Jul-21 A | | | 21-Jun-21 | 11-Jul-21 | | | | | | | | | | | |
| cceptance of T | Technical Proposal | | | 100% | | 29-May-21 | 15-Jun-21 | 29-May-21 A | 15-Jun-21 A | | | 26-Mar-21 | 02-Dec-21 | | | ₩. | | | | | | | | |
| OC.S1.1100 | Acceptance of Technical Proposal of Preliminary Treatment System at CCSTW | 14 | 0 | 100% | 100% | 01-Jun-21 | 14-Jun-21 | 01-Jun-21 A | 14-Jun-21 A | | | 19-Nov-21 | 02-Dec-21 | | | | - | 1 1 | | | | | | |
| DC.S1.1200 | Acceptance of Technical Proposal for MBR System and MBR Building at CCSTW (E&M) | 14 | 0 | 100% | 100% | 01-Jun-21 | 14-Jun-21 | 01-Jun-21 A | 14-Jun-21 A | | | 26-May-21 | 08-Jun-21 | | | J | | | | | | | | |
| OC.S1.1205 | Acceptance of Technical Proposal for MBR System and MBR Building at CCSTW (Civil & Structural) | 14 | 0 | 100% | 100% | 01-Jun-21 | 14-Jun-21 | 01-Jun-21 A | 14-Jun-21 A | | | 30-Apr-21 | 13-May-21 | | | | | | | | | | | |
| C.S1.1300 | Acceptance of Technical Proposal for Sludge Treatment System at CCSTW | 14 | 0 | 100% | 100% | 01-Jun-21 | 14-Jun-21 | 01-Jun-21 A | 14-Jun-21 A | | | 26-May-21 | 08-Jun-21 | | | | | | | | | | | |
| C.S1.1400 | Acceptance of Technical Proposal for Electrical Works at CCSTW | 14 | 0 | 100% | 100% | 01-Jun-21 | 14-Jun-21 | 01-Jun-21 A | 14-Jun-21 A | | + | 26-May-21 | 08-Jun-21 | | | J | | | | | | | | |
| OC S1.1450 | Acceptance of Technical Proposal for Temp, Works Design for the 1st 3 months of ECIS2 | 7 | 0 | 100% | 100% | 01-Jun-21 | 14-Jun-21 | 01-Jun-21 A | 14-Jun-21 A | | | 24-May-21 | 30-May-21 | | | | | | | | | | | |
| C,S1,1430 C,S1,1470 | | 65 | 0 | 100% | 100% | 29-May-21 | 01-Jun-21 | 01.00.12.111 | 01-Jun-21 A | | | | 29-May-21 | - | | ائــا | | | | | | | | |
| | Approval of Technical proposal for accommodation of co-office | | | | | | | 29-May-21 A | | | | 26-Mar-21 | | | | | | | | | | | | |
| C.S1.1570 | Acceptance of Technical Proposal for DIMA including application of prefabrication of MiC | 15 | 0 | 100% | 100% | 01-Jun-21 | 15-Jun-21 | 01-Jun-21 A | 15-Jun-21 A | | | 30-Jun-21 | 14-Jul-21 | | | | | | | | ļ | įl | | |
| stallation of M | | | | 100% | | 02-Jun-21 | 29-Jun-21 | 02-Jun-21 A | 29-Jun-21 A | | | 24-Mar-21 | 14-Jul-21 | | | 7 | | | | | | | | |
| C,S1,1580c | | 5 | 0 | 100% | 100% | 02-Jun-21 | 07-Jun-21 | 02-Jun-21 A | 07-Jun-21 A | | | 24-Mar-21 | 29-Mar-21 | | | | | | | | | | | |
| C,S1,1580d | Installation of MiC Co-Office | 19 | 2 | 100% | 100% | 04-Jun-21 | 29-Jun-21 | 04-Jun-21 A | 29-Jun-21 A | | | 19-Jun-21 | 14-Jul-21 | | | • | | | | | | | | |
| ranplanting Wo | orks of Tree T4 | | | 98,71% | | 15-Jan-22 | | 15-Jan-22 A | 29-Oct-22 | 28-Jan-23 | 31-Jan-23 | 15-Jan-22 | 21-Sep-22 | | 75 | | | V | | ▼ | | | | |
| C.S3.1010a | Subletting of Tree Transplant | 35 | 0 | 100% | 100% | 15-Jan-22 | 20-Jan-22 | 15-Jan-22 A | 20-Jan-22 A | | | 15-Jan-22 | 28-Feb-22 | | | | | L | | | | | 1 1 | |
| C.S3,1010b | Root prunning and Preparation Works for Transplanting | 133 | 2 | 100% | 100% | 04-Apr-22 | 17-Sep-22 | 04-Apr-22 A | 17-Sep-22 A | | | 04-Apr-22 | 17-Sep-22 | | | | | - | - | | | 1 | | |
| C S3.1020 | Transplanting works | 2 | 1 | 0% | 0% | | | 27-Oct-22* | | 28-Jan-23 | 31-Jan-23 | 19-Sep-22 | 21-Sep-22 | * | 75 | | | | /. | 1 | | | | |
| | Monitoring System (Remaining Works) | - | | 85,93% | 0.0 | 27-Nov-20 | | 27-Nov-20 A | 17-Jan-23 | 21-Nov-22 | 10-Mar-23 | 27-Nov-20 | 28-Oct-22 | | 52 | | - | + | -\ | | | | | |
| C.S1.1620b10 | Complete all trial installation of monitoring devices and sensors and submit an Installation Report for trial inst | 105 | 4 | 100% | 100% | 27-Nov-20 | 24-Jun-21 | 27-Nov-20 A | 24-Jun-21 A | 2.4100-22 | .OHMBIPZO | 27-Nov-20 | 10-Jun-21 | | JE | | | | | | | | | |
| | | 196 | 0 | 100% | 100% | | | | | | - | | | | | _ | | | | | | | | |
| C,S1,1620c10 | Preparation and submission of Draff Transmission Specification | | - | - 00.0 | | 27-Nov-20 | 10-Jun-21 | 27-Nov-20 A | 10-Jun-21 A | 0111 00 | 20.51.00 | 27-Nov-20 | 10-Jun-21 | | | jj. | | | / | | ļļ | į | | |
| C.S1.1620d10 | Completion of installation of monitoring devices and sensors and submission of Installation report | 475 | 0 | 83.16% | 65% | 11-Jun-21 | | 11-Jun-21 A | | 21-Nov-22 | 08-Feb-23 | 11-Jun-21 | 28-Sep-22 | | 52 | - 1 - | | 1 | | | | | | |
| C.S1.1620e10 | Completion testing of data transmission and compatability to DSD's Data Information System | 29 | 1 | 0% | 0% | | | 19-Dec-22 | 17-Jan-23 | 09-Feb-23 | 10-Mar-23 | 29-Sep-22 | 28-Oct-22 | | 52 | 1 1 | _ : | | 1 | - T | | | | |
| | zation of Rock Socket Length for Socketed Steel H-Piles for PTF, SCB, SDB & SHT | | | 100% | | 31-May-21 | 16-Aug-21 | 31-May-21 A | 16-Aug-21 A | | | 30-May-21 | 16-Aug-21 | | | · · | 7 | | 1 | | | | | |
| 00,S3,1050 | Structural Design Review After Completion of Predrilling Works (Phase 1) | 70 | 0 | 100% | 100% | 31-May-21 | 09-Aug-21 | 31-May-21 A | 09-Aug-21 A | | | 30-May-21 | 08-Aug-21 | | | - | | | 1 | | | | | |
| OC,S3,1060 | ICE Checking and Issuance of ICE certificate | 7 | 0 | 100% | 100% | 10-Aug-21 | 16-Aug-21 | 10-Aug-21 A | 16-Aug-21 A | | | 10-Aug-21 | 16-Aug-21 | | | | 1 | | | | | | | |
| Construction of | f MBR Treatment Facilities | | | 49.28% | | 01-Apr-21 | | 01-Apr-21 A | 14-Apr-24 | 30-Sep-22 | 14-Apr-24 | 01-Apr-21 | 07-Apr-24 | | 0 | *** | | 1 | | | · · · · · · · · · · · · · · · · · · · | - | 7 | |
| Procurement, Fab | brication and Delivery of Major E&M Equipment | | | 52.51% | | 12-Jul-21 | | 12-Jul-21 A | 24-Sep-23 | 30-Oct-22 | 25-Oct-23 | 28-Aug-21 | 24-Sep-23 | | 31 | 7 | _ | | | | | • | | |
| DC.S3.1075a | Tendering of Subcontrator | 45 | 0 | 100% | 100% | 12-Jul-21 | 26-Aug-21 | 12-Jul-21 A | 26-Aug-21 A | | | 28-Aug-21 | 14-Oct-21 | | | | ÷ | | | | | | | |
| DC.S3.1075b | Equipment Submission and Approval | 380 | 0 | 92.11% | 40% | 15-Oct-21 | | 15-Oct-21 A | 29-Oct-22 | 30-Oct-22 | 28-Nov-22 | 15-Oct-21 | 29-Oct-22 | | 30 | | _ | + | | | | | 1 1 | |
| DC.S3.1080a | Procurement | 60 | 0 | 50% | 10% | 31-Aug-22 | | 31-Aug-22 A | 29-Oct-22 | 31-Oct-22 | 29-Nov-22 | 31-Aug-22 | 29-Oct-22 | | 31 | | | | | – | | | | |
| DC.S3.1080b | Fabrication | 240 | 0 | 0% | 0% | | | 30-Oct-22 | 26-Jun-23 | 30-Nov-22 | 27-Jul-23 | 30-Oct-22 | 26-Jun-23 | | 31 | | | 1 | | | | * | | |
| DC.S3.1080c | Delivery | 60 | 0 | 0% | 0% | | | 27-Jun-23 | 24-Sep-23 | 28-Jul-23 | 25-0ct-23 | 27-Jun-23 | 24-Sep-23 | + | 31 | | | | | | | | | |
| | Works | 00 | | 5832% | 076 | 01-Apr-24 | | 01-Apr-21 A | 25-Oct-23 | 30-Sep-22 | 25-Oct-23 | 01-Apr-21 | 20-Oct-23 | | 0 | - | | +- | - | \vdash | | . | | |
| | | 24 | - | | 4000 | 01-Apr-21 | 02 64 04 | | | 30-9ep-22 | 20-001-23 | | | | 0 | | | | | | | | | |
| DC.S3.1090a | Site Preparation Works for Piling (including relocation of Existing Sludge Storage Shelter) | 24 | 4 | 100% | 100% | 31-May-21 | 03-Jul-21 | 31-May-21 A | 03-Jul-21 A | | | 31-May-21 | 03-Jul-21 | - | | | | | | | | | | |
| DC.S3.1090b | Subleting of Piling Works | 46 | 0 | 100% | 100% | 01-Apr-21 | 29-May-21 | 01-Apr-21 A | 29-May-21 A | | | 01-Apr-21 | 29-May-21 | | | | | | | | ļļ | įl | | |
| DC.S3.1090c | Material Testing for Piling Works | 29 | 0 | 100% | 100% | 30-Apr-21 | 29-May-21 | 30-Apr-21 A | 29-May-21 A | | | 09-May-21 | 07-Jun-21 | | [] | - | | | | | | | | |
| DC.S3.1090d | Mobilization and Setting up of 2nd Set Piling Rig and Associated Equipment | 9 | 0 | 100% | 100% | 24-Sep-21 | 24-Sep-21 | 24-Sep-21 A | 24-Sep-21 A | | | 24-Feb-22 | 04-Mar-22 | | | | - 1 | 1 . | | | | | | |
| DC.S3.1100 | Piling works for pre-bored socket H-piles (67 nos, dia610) | 90 | 5 | 100% | 100% | 07-Oct-21 | 31-Jan-22 | 07-Oct-21 A | 31-Jan-22 A | | | 07-Oct-21 | 31-Jan-22 | | | | _ | _ | | | | | | |
| DC.S3.1110 | Design and Pile Loading Test of Compression Pile | 54 | 3 | 100% | 100% | 31-Jan-22 | 12-Apr-22 | 31-Jan-22 A | 12-Apr-22 A | | | 28-Feb-22 | 11-May-22 | | | | | 1 - | | | | | | |
| DC.S3.1110a | Pile Loading Test of Compression Pile | 12 | 2 | 100% | 100% | 26-Sep-22 | 29-Sep-22 | 26-Sep-22 A | 29-Sep-22 A | | | 08-Sep-22 | 21-Sep-22 | | | | | | | | | | | |
| DC.S3.1111 | Proof Drill | 6 | 1 | 100% | 100% | 19-Mar-22 | 24-Mar-22 | 19-Mar-22 A | 24-Mar-22 A | | | 17-Mar-22 | 24-Mar-22 | | | | | · · · · · · · | | | | 1 | | |
| DC 83 1140 | Pre-boring for Installation of Sheet Piles (Total 372nos., 3rigs) | 177 | 0 | 77,4% | 66% | 31-Mar-22 | | 31-Mar-22 A | 17-Nov-22 | 08-Oct-22 | 23-Nov-22 | 31-Mar-22 | 04-Nov-22 | | 5 | | | = | - | _ | | | | |
| DC.S3.1140a | Installation of Sheet Piles | 82 | 1 | 45.78% | 37% | 16-Aug-22 | | 16-Aug-22 A | 23-Nov-22 | 30-Sep-22 | 23-Nov-22 | 16-Aug-22 | 19-Nov-22 | | 0 | | | | 4 | _ | | | | |
| | | 15 | 1 | | | - omigree | | | | 24-Nov-22 | | | | | 0 | | | | | | | | | |
| DC.S3.1150 | Pumping Test | | 2 | 0% | 0% | | | 24-Nov-22 | 13-Dec-22 | | 13-Dec-22 | 21-Nov-22 | 09-Dec-22 | | 0 | | | | | | | | 1 1 | |
| DC.S3.1160 | Install internal ELS & excavation for basement (12500m3) | 90 | _ | 0% | 0% | | | 14-Dec-22 | 04-Apr-23 | 14-Dec-22 | 04-Apr-23 | 10-Dec-22 | 31-Mar-23 | | - 1 | | | | | | <u></u> | į | | |
| DC,S3,1170 | Construction of RC structure (below ground, 4500 m3) | 94 | 2 | 0% | 0% | | | 06-Apr-23 | 03-Aug-23 | 06-Apr-23 | 03-Aug-23 | 01-Apr-23 | 31-Jul-23 | | 0 | | | | | | | | | |
| DC.S3.1180 | Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS | 10 | 1 | 0% | 0% | | | 04-Aug-23 | 16-Aug-23 | 04-Aug-23 | 16-Aug-23 | 01-Aug-23 | 12-Aug-23 | | 0 | | | | | | | <u> </u> | | |
| 00,83,1190 | Construction of RC Structure (above ground, 1500 m3) | 56 | 1 | 0% | 0% | | | 17-Aug-23 | 25-Oct-23 | 17-Aug-23 | 25-Oct-23 | 14-Aug-23 | 20-Oct-23 | | 0 | | | | | | - | 7 | | |
| Design Submission | | | | 82.84% | | 01-Jun-21 | | 01-Jun-21 A | 06-Jan-23 | 22-Nov-22 | 05-Apr-23 | 09-Jun-21 | 06-Jan-23 | | 89 | - T | - | | | _ | | | | |
| DC.S3.1220 | Updating of Foundation and Pile Cap Design based on Technical Proposal | 97 | 0 | 100% | 100% | 01-Jun-21 | 06-Sep-21 | 01-Jun-21 A | 06-Sep-21 A | | | 09-Jun-21 | 13-Sep-21 | | | | _ | | | | | | | |
| DC.S3.1230 | Other substructures and Superstructs Design | 299 | 0 | 88.29% | 80% | 09-Jan-22 | | 09-Jan-22 A | 03-Nov-22 | 02-Mar-23 | 05-Apr-23 | 09-Jan-22 | 03-Oct-22 | | 153 | | | - | | | | 1 | | |
| DC.S3.1270 | Architecture & Landscaping Despn | 464 | 0 | 78,66% | 33% | 30-Sep-21 | | 30-Sep-21 A | 06-Jan-23 | 22-Nov-22 | 28-Feb-23 | 30-Sep-21 | 06-Jan-23 | | 53 | | | + : | - | | | | | |
| &M Works | | 187 | - | 0% | 30.74 | - 2 map m. | | 26-Oct-23 | 14-Apr-24 | 26-Oct-23 | 14-Apr-24 | 21-Oct-23 | 07-Apr-24 | | 0 | | | | | | | + | → | - 1 |
| DC S3.1210 | E&M,LVSB and BS Installation (MBR, Air Blower, LVSB, DO system, Pump and associated pipe works, EO1 | en | 10 | 0% | 0% | | | 26-Oct-23 | 14-7¢01-24 14-Feb-24 | 26-Oct-23 | 14-Apr-24 | 21-Oct-23 | 07-Apr-24 07-Feb-24 | | 0 | | | | | | | | | |
| | | | 10 | 0.14 | 0.0 | | | 20 001 20 | 111.00 21 | E0 001 E0 | | E. Out Eu | 07 1 00 2 1 | | | | | | | | | 7 | | |
| OC.S3.1220a | SCADA System Site Acceptance Test (Phase 1 MBR Construction) | 30 | 0 | 0% | 0% | | | 25-Nov-23 | 24-Dec-23 | 15-Feb-24 | 15-Mar-24 | 20-Nov-23 | 19-Dec-23 | | 82 | | | | | | | | فسنام | |
| OC.S3.1220b | SCADA System Commissioning Test (Phase 1 MBR Construction) | 30 | 0 | 0% | 0% | | | 24-Jan-24 | 22-Feb-24 | 16-Mar-24 | 14-Apr-24 | 19-Jan-24 | 17-Feb-24 | | 52 | | | | | | | : [- | | |
| DC,S3,1230b | System Commissioning Test (Interim Testing) | 60 | 0 | 0% | 0% | | | 15-Feb-24 | 14-Apr-24 | 15-Feb-24 | 14-Apr-24 | 08-Feb-24 | 07-Apr-24 | | 0 | 1 1 | | 1 : | | | | 1 1 | = | - 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | |



| | Activity Name | Ori. Dur (d) | TRA (d) | Time Elapsed % | Actual | Actual Start | Actual Finish | Early Start | Early Finish Late Start | Late Finish | Early Start | Early Finish Amended Tota (Rev.17) Activities Floa | d D I E JEAN | 2021 | 2022 | days (By) | 2023 | 2024 Duifim 4 mujulaisicinid |
|--|--|---|---|--|--|------------------------|------------------------|---|--|---|--|--|--------------|---------|--------------|--------------|-------------|---------------------------------|
| OC.S3.1235b | Equipment Submission and Approval | 435 | 0 | 95.63% | Workdone % | 10-Aug-21 | | 10-Aug-21 A | 18-Oci-22 08-Nov-22 | 26-Nov-22 | (Rev.17) 10-Aug-21 | (Rev.17) Activities Floa 18-Oct-22 39 | T DJFMA | an Made | THIP WALLIA | SONDJENA | J J A S O N | NATION OF THE WATER |
| rocurement | сопривни осилновия али ирргома | 400 | U | 100% | 00% | 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A | 20-1104-22 | 10-Aug-21 | 10-Nov-21 | | | ▼ | T | | |
| DC,S3,1240a1 | Sludge Digester Feed Pump and Digested Sludge Pump | 1 | 0 | 100% | 100% | 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A | | 10-Nov-21 | 10-Nov-21 | | | | | | |
| 0C,S3,1240a10 | Studge Digester Freed Furtip and Digested Studge Furtip Studge Digester Air Blower | 1 | 0 | 100% | 100% | 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A | | 10-Nov-21 | 10-Nov-21 | | | | | | |
| | | 4 | 0 | 100% | 100% | 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A | | 10-Nov-21 | 10-Nov-21 | -11 | | | | | |
| 0C.S3.1240a11 | | 1 | 0 | 100% | 100% | 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A | | 10-Nov-21 | 10-Nov-21 | -11 | | 1 | | | |
| DC,83,1240a2 DC S3 1240a3 | Submersible Mixer for Digested Sludge Holding Tank Deachrization Unit 4 | 4 | 0 | 100% | 100% | | | | | | | | -11 | | | | | |
| | LV Switchboards. Motor Control Centers and Associated Components | 1 | 0 | 100% | 100% | 31-Jan-22 31-Jan-22 | 31-Jan-22 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A 31-Jan-22 A | | 10-Nov-21 10-Nov-21 | 10-Nov-21 10-Nov-21 | -11 | 1 1 | | | | |
| 0C.S3.1240a4 0C.S3.1240a6 | | 1 | 0 | 100% | 100% | 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A 31-Jan-22 A | 31-Jan-22 A | | 10-Nov-21 | 10-Nov-21 | | | | | | |
| DC:S3:124080 DC:S3:124086 | Variable Speed Drive (VSD) | 1 | 0 | 100% | 100% | 31-Jan-22 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A 31-Jan-22 A | | 10-Nov-21 | 10-Nov-21 10-Nov-21 | | 1 1' | | | | |
| 0.000,12.1000 | Cable | 1 | 0 | | 10014 | 0.1.00.1.00 | 0.00.00 | 0.000.007 | 0.100.001 | | 10 1107 21 | | -11 | 1 1 | | | | |
| DC.S3.1240a7 | Pipe Work/Valve | 1 | 0 | 100% | 100% | 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A | | 10-Nov-21 | 10-Nov-21 | | 1 1' | | | | |
| C.S3.1240a8 | Instrument | 1 | 0 | 100% | 100% | 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A | | 10-Nov-21 | 10-Nov-21 | | 1 1' | | | | |
| 0C,S3,1240a9 brication | Liffing Appliance | 1 | 0 | 100% | 100% | 31-Jan-22 | 31-Jan-22 | 31-Jan-22 A | 31-Jan-22 A | 00.5 1.00 | 10-Nov-21 | 10-Nov-21 | | | | <u></u> | | |
| | | | | 83.38% | | 01-Feb-22 | 24.0 | 01-Feb-22 A | 26-Nov-22 26-Dec-22 | 26-Feb-23 | 01-Feb-22 | 15-Jan-23 92 | | | 1 | J ' | | |
| | Sludge Digester Feed Pump and Digested Sludge Pump | 240 | 0 | 100% | 100% | 01-Feb-22 | 28-Sap-22 | 01-Feb-22 A | 28-Sep-22 A | | 01-Feb-22 | 28-Sep-22 | -11 | | | 1 | | |
| | Sludge Digester Air Blower | 169 | 0 | 100% | 100% | 01-Feb-22 | 20-Jul-22 | 01-Feb-22 A | 20-Jul-22 A | | 31-Jul-22 | 15-Jan-23 | _ | | | 1 | | |
| | | 240 | 0 | 100% | 100% | 01-Feb-22 | 28-Sep-22 | 01-Feb-22 A | 28-Sep-22 A | | 01-Feb-22 | 28-Sep-22 | _ | | | 1 | | |
| C.S3.1240b2 | Submersible Mixer for Digested Sludge Holding Tank | 164 | 0 | 100% | 100% | 01-Feb-22 | 15-Jul-22 | 01-Feb-22 A | 15-Jul-22 A | | 01-Feb-22 | 14-Jul-22 | | | | <u> </u> | | |
| C.S3.1240b3 | Deodorization Unit 4 | 299 | 0 | 80.6% | 40% | 01-Feb-22 | | 01-Feb-22 A | 26-Nov-22 26-Dec-22 | 21-Feb-23 | 01-Feb-22 | 26-Nov-22 87 | | | | T | | |
| C,S3,1240b4 | LV Switchboards, Motor Control Centers and Associated Components | 239 | 0 | 100% | 100% | 01-Feb-22 | 27-Sep-22 | 01-Feb-22 A | 27-Sep-22 A | | 01-Feb-22 | 27-Sep-22 | _ | | | 1 | | |
| C.S3.1240b5 | Variable Speed Drive (VSD) | 180 | 0 | 100% | 100% | 01-Feb-22 | 30-Jul-22 | 01-Feb-22 A | 30-Jul-22 A | | 01-Feb-22 | 30-Jul-22 | _ | | 1 1 | 1 1 | | |
| C.S3.1240b6 | Cable | 240 | 0 | 100% | 100% | 01-Feb-22 | 28-Sep-22 | 01-Feb-22 A | 28-Sep-22 A | | 01-Feb-22 | 28-Sep-22 | _ | | | 1 | | |
| C,S3,1240b7 | Pipe Work/Valive | 243 | 0 | 99,18% | 75% | 01-Feb-22 | | 01-Feb-22 A | 01-Oc1-22 25-Feb-23 | 26-Feb-23 | 01-Feb-22 | 01-Oct-22 144 | | | | <u> </u> | | |
| C.S3.1240b8 | Instrument | 243 | 0 | 99.18% | 40% | 01-Feb-22 | | 01-Feb-22 A | 01-Oc1-22 25-Feb-23 | 26-Feb-23 | 01-Feb-22 | 01-Oct-22 144 | | | | 1 1 | | |
| | Liffing Appliance | 243 | 0 | 99.18% | 40% | 01-Feb-22 | | 01-Feb-22 A | 01-Oc1-22 25-Feb-23 | 26-Feb-23 | 01-Feb-22 | 01-Oct-22 144 | | | 1 1 | | | |
| livery | | | | 51.15% | | 24-May-22 | | 24-May-22 A | 30-Jan-23 22-Feb-23 | 24-May-23 | 24-May-22 | 30-Jan-23 11- | | | | 7 | | |
| C.S3.1240c1 | Sludge Digester Feed Pump and Digested Sludge Pump | 33 | 0 | 3.03% | 0% | 29-Sep-22 | | 29-Sep-22 A | 31-Oc1-22 27-Mar-23 | 27-Apr-23 | 29-Sep-22 | 31-Oct-22 178 | 3_ : | | | P | | |
| | Studge Digester Air Blower | 26 | 0 | 100% | 100% | 01-Aug-22 | 26-Aug-22 | 01-Aug-22 A | 26-Aug-22 A | | 01-Aug-22 | 26-Aug-22 | | | | | | |
| C.S3.1240c11 | Air Diffuser for Sludge Digester | 47 | 0 | 2.13% | 0% | 29-Sep-22 | | 29-Sep-22 A | 14-Nov-22 09-Apr-23 | 24-May-23 | 29-Sep-22 | 14-Nov-22 19 | | | | | | |
| C.S3.1240c2 | Submersible Mixer for Digested Sludge Holding Tank | 60 | 0 | 100% | 100% | 31-Jul-22 | 28-Sep-22 | 31-Jul-22 A | 28-Sep-22 A | | 31-Jul-22 | 28-Sep-22 | _ | | | 1 i | | |
| C.S3.1240c3 | Deodorization Unit 4 | 65 | 0 | 0% | 0% | | | 27-Nov-22 | 30-Jan-23 22-Feb-23 | 27-Apr-23 | 27-Nov-22 | 30-Jan-23 87 | | | | | | |
| C.S3.1240c4 | LV Switchboards, Motor Control Centers and Associated Components | 56 | 0 | 3.57% | 0% | 28-Sep-22 | | 28-Sep-22 A | 22-Nov-22 15-Mar-23 | 07-May-23 | 28-Sep-22 | 22-Nov-22 166 | 3 | | | PI | | |
| C.S3.1240c5 | Variable Speed Drive (VSD) | 44 | 0 | 100% | 100% | 24-May-22 | 07-Jul-22 | 24-May-22 A | 07-Jul-22 A | | 24-May-22 | 07-Jul-22 | | | | 1 | | |
| C.S3.1240c6 | Cable | 60 | 0 | 18.03% | 20% | 19-Sep-22 | | 19-Sep-22 A | 18-Nov-22 02-Mar-23 | 20-Apr-23 | 29-Sep-22 | 27-Nov-22 15 | | | | T I | | |
| OC.S3.1240c7 | Pipe Work/Valive | 60 | 0 | 0% | 0% | | | 02-Oct-22 | 30-Nov-22 27-Feb-23 | 27-Apr-23 | 02-Oct-22 | 30-Nov-22 148 | 3 | | | - | | |
| DC.S3.1240c8 | Instrument | 60 | 0 | 0% | 0% | | | 02-Oct-22 | 30-Nov-22 27-Feb-23 | 27-Apr-23 | 02-Oct-22 | 30-Nov-22 144 | | | | | | |
| DC.S3.1240c9 | Lifting Appliance | 60 | 0 | 0% | 0% | | | 02-Oct-22 | 30-Nov-22 27-Feb-23 | 27-Apr-23 | 02-Oct-22 | 30-Nov-22 144 | | | | - 1 | | |
| vil & Structural V | Works | | | 78.42% | | 31-May-21 | | 31-May-21 A | 10-Feb-23 07-Dec-22 | 20-Apr-23 | 31-May-21 | 10-Feb-23 69 | | · | | | | |
| C.S3.1250 | Site Preparation Works for Piling (including removal of existing Sludge Tank) | 36 | 4 | 100% | 100% | 31-May-21 | 17-Jul-21 | 31-May-21 A | 17-Jul-21 A | | 31-May-21 | 17-Jul-21 | | _ | | I | | |
| C.S3.1280a | Subletting of Supply and Installation of ELS | 29 | 0 | 100% | 100% | 01-Aug-21 | 29-Aug-21 | 01-Aug-21 A | 29-Aug-21 A | | 01-Aug-21 | 29-Aug-21 | | • | | | | |
| C.S3.1280a10 | Preliminary Pile and Pile Load Test | 45 | 3 | 100% | 100% | 12-Jul-21 | 06-Sep-21 | 12-Jul-21 A | 06-Sep-21 A | | 03-Dec-21 | 04-Feb-22 | | _ | + : : | | | |
| C.S3.1280b | Piling works for pre-bored socket H-piles (37 nos, dia610, 11eam) | 79 | 4 | 100% | 100% | 23-Jul-21 | 01-Nov-21 | 23-Jul-21 A | 01-Nov-21 A | | 15-Dec-21 | 28-Mar-22 | | _ | - | | | |
| CS3.1290a | Pre-boring for installation of sheet piles | 122 | 1 | 100% | 100% | 01-Nov-21 | 31-Mar-22 | 01-Nov-21 A | 31-Mar-22 A | | 01-Nov-21 | 30-Mar-22 | | | | | | |
| C,S3,1290b | Installation of sheet piles(FSPVL) | 25 | 2 | 100% | 100% | 01-Apr-22 | 10-May-22 | 01-Apr-22 A | 10-May-22 A | | 01-Apr-22 | 07-May-22 | | | | | | |
| C.S3.1300 | Excavation for basement of Studge Digestor Building (3425m3 exca, 1 team) | 109 | 2 | 100% | 100% | 10-May-22 | 22-Sep-22 | 10-May-22 A | 22-Sep-22 A | | 10-May-22 | 19-Sep-22 | | | _ | " ! | | |
| | Subletting of Rebar Fixing | 45 | 0 | 100% | 100% | 25-Nov-21 | 19-Jan-22 | 25-Nov-21 A | 19-Jan-22 A | | 25-Nov-21 | 19-Jan-22 | | 1 1 | + | | | |
| .S3.1310a | Substitution of the control of the c | -10 | | | | | | | | | | 19-Jan-22 | | 1 | - | | | |
| | Subjetting of Formworks, Concretor and Miscellaneous Works | 45 | 0 | 100% | 100% | 25-Nov-21 | 19-Jan-22 | 25-Nov-21 A | 19-Jan-22 A | | 25-Nov-21 | 13-Jan-22 | | 1 1 | | - | | |
| ,S3,1310b | | | 0 | 100% 15.25% | 100% | 25-Nov-21 23-Sep-22 | 19-Jan-22 | 25-Nov-21 A 23-Sep-22 A | 19-Jan-22 A 30-Nov-22 07-Dec-22 | 07-Feb-23 | 25-Nov-21 20-Sep-22 | 30-Nov-22 55 | | : : | | | | |
| 0,53,1310b 0,53,1310c | Subletting of Formworks, Concretor and Miscellaneous Works | 45 | | | | | 19-Jan-22 | | | 07-Feb-23 14-Feb-23 | | | | | | 1 1 | | |
| C,S3,1310b C,S3,1310c C,S3,1320 | Subleting of Formworks, Concretor and Miscellaneous Works Construction of RC substructures of sludge digestor building (Grid 2-4) | 45 57 | 2 | 15.25% | 5% | | 19-Jan-22 | 23-Sep-22 A | 30-Nov-22 07-Dec-22 | 07 7 00 20 | 20-Sep-22 | 30-Nov-22 55 | | | | - | | |
| 0,53,1310b 0,53,1310c 0,53,1320 0,53,1330 | Subletting of Formworks, Concretor and Miscellianeous Works Construction of RC substructures of studge digestor building (Grid 2-4) Backfilling to ground level and removal of ELS (Grids 2-4) | 45 57 5 | 2 | 15.25% 0% | 5% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 | 30-Nov-22 07-Dec-22 07-Dec-22 08-Feb-23 | 14-Feb-23 | 20-Sep-22 01-Dec-22 | 30-Nov-22 55 07-Dec-22 55 | | | | Ŀ | | |
| 0,53,1310b 0,53,1310c 0,53,1320 0,53,1330 0,53,1340 | Subjecting of Formworks, Concretor and Miscellaneous Works Construction of RC substructures of studge dispatc building (Grid 2-4) Backfilling to ground level and removal of ELS (Grids 2-4) Installation of ELS and excavation for pile cap of Studge Hidding Tanks (623m3 exca. I team) | 45 57 5 9 | 2 1 | 15.25% 0% 0% | 5% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 | 30-Nov-22 07-Dec-22 07-Dec-22 08-Feb-23 18-Nov-22 14-Jan-23 | 14-Feb-23 27-Jan-23 | 20-Sep-22 01-Dec-22 08-Nov-22 | 30-Nov-22 55 07-Dec-22 55 18-Nov-22 55 | | | | i | | |
| C,S3,1310b C,S3,1310c C,S3,1320 C,S3,1330 C,S3,1340 C,S3,1350 | Subletting of Formworks, Concretor and Miscellaneous Works Construction of RC subdividuouse of sludge displact building (Grid 2-4) Backfilling to ground level and removal of ELS (Grid 2-4) Installation of ELS and excavation for pile cap of Studge Holding Tanks (623m3 exca. 1team) Construction of RC structure of Studge Holding Tanks (pelow ground. 226m3) | 45 57 5 9 | 2 1 | 15.25% 0% 0% 0% | 5% 0% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 | 30-Nov-22 07-Dec-22 07-Dec-22 08-Feb-23 18-Nov-22 14-Jan-23 17-Dec-22 28-Jan-23 | 14-Feb-23 27-Jan-23 24-Feb-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 | 30-Nov-22 55 07-Dec-22 55 18-Nov-22 55 17-Dec-22 55 | | | | | | |
| C,S3,1310b C,S3,1310c C,S3,1320 C,S3,1330 C,S3,1340 C,S3,1350 C,S3,1351 | Suberting of Formworks, Concretor and Miscettaneous Works Construction of RC substructures of studge dispetor building (Grid-24) Backfilling to grand fevel and removal of ELS (Grid-2-4) Installation of ELS and excavation for pile cap of Studge Holding Tanks (623m3 exca. 1team) Construction of RC structure of Studge Holding Tanks (below ground 226m3) Backfilling to ground level and removal of ELS (Studge Holding Tank) Construction of RC superstructure (Studge Holding Tank) | 45 57 5 9 22 5 | 2 1 1 2 1 | 15.25% 0% 0% 0% 0% | 5% 0% 0% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 | 30-Nov-22 07-Dec-22 07-Dec-22 08-Feb-23 18-Nov-22 14-Jan-23 17-Dec-22 28-Jan-23 24-Dec-22 25-Feb-23 | 14-Feb-23 27-Jan-23 24-Feb-23 03-Mar-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 | 30-Nov-22 55 07-Dec-22 55 18-Nov-22 55 17-Dec-22 55 24-Dec-22 55 | | | | | | |
| .S3,1310b .S3,1310c .S3,1320 .S3,1330 .S3,1340 .S3,1350 .S3,1360 | Subletting of Formworks, Concretor and Miscellaneous Works Construction of RCs substructures of sludge displact building (Grid 2-4) Backfilling to ground level and removal of ELS (Grids 2-4) Installation of ELS and excavation for pile cap of Studge Holding Tanks (523m3 exca. 1team) Construction of RCs structure of Sludge Holding Tanks (below ground 226m3) Backfilling to ground level and removal of ELS (Sludge Holding Tank) Construction of RCs superstructure (Sludge Holding Tank) Construction of RCs Superstructure (Sludge Holding Tank) | 45 57 5 9 22 5 35 | 2 1 1 2 1 2 | 15.25% 0% 0% 0% 0% 0% | 5% 0% 0% 0% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 | 30-Nov-22 07-Dec-22 07-Dec-22 08-Feb-23 18-Nov-22 14-Jan-23 17-Dec-22 28-Jan-23 24-Dec-22 25-Feb-23 10-Feb-23 04-Mar-23 | 14-Feb-23 27-Jan-23 24-Feb-23 03-Mar-23 20-Apr-23 20-Apr-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 | 30-Nov-22 555 07-Dec-22 555 18-Nov-22 555 17-Dec-22 555 24-Dec-22 555 10-Feb-23 555 | | | | | | |
| C.S3,1310b C.S3,1310c C.S3,1320 C.S3,1320 C.S3,1330 C.S3,1340 C.S3,1360 C.S3,1360 C.S3,1360 C.S3,1360 C.S3,1360 | Subletting of Formworks, Concretor and Miscellaneous Works Construction of RC sublantularies of sludge displace building (Grid 2-4) Backfilling to ground level and removal of ELS (Gride 2-4) Installation of ELS and excavation for pile cap of Studge Holding Tanks (523m3 exca. 1team) Construction of RC structure of Studge Holding Tanks (below ground, 226m3) Backfilling to ground level and removal of ELS (Studge Holding Tank) Construction of RC Structure (Studge Holding Tank) Construction of RC Structure (Studge Ground, 856m3) Installation of ELS and excavation for substructures of Studge Digostor Building (Gride 1-2) (523m3 exca, 1 | 45 57 5 9 22 5 35 | 2 1 1 2 1 2 | 15.25% 0% 0% 0% 0% 0% 0% 0% | 5% 0% 0% 0% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 | 30-Nov-22 07-Dec-22 07-Dec-22 08-Feb-23 18-Nov-22 14-Jan-23 17-Dec-22 28-Jan-23 24-Dec-22 25-Feb-23 10-Feb-23 04-Mar-23 | 14-Feb-23 27-Jan-23 24-Feb-23 03-Mar-23 20-Apr-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 | 30-Nov-22 55 07-Dec-22 55 18-Nov-22 55 17-Dec-22 55 10-Feb-23 55 10-Feb-23 55 | | | | | | |
| 2.53,1310b 2.53,1310c 2.53,1320 2.53,1320 2.53,1330 2.53,1340 2.53,1350 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 | Subjecting of Formerorks, Concretor and Miscellaneous Works Construction of RC substructures of sludge dispect orbitding (Grid 2-4) Backfilling to grand level and removal of ELS (Grids 2-4) Installation of ELS and excavation for pile cap of Studge Hidding Tanks (523m3 exca. 1team) Construction of RC structure of Sludge Hidding Tanks (below ground 226m3) Backfilling to grand level and removal of ELS (Sludge Holding Tank) Construction of RC superstructure (Studge Holding Tank) Construction of RC superstructure (Studge Holding Tank) Trailation of ELS structure (Gride 1-4) (above ground, 856m3) Installation of ELS and excavation for substructures of Sludge Digestor Building (Gride 1-2) (523m3 exca. 1 Construction of RC substructure of sludge digestor building (Grid 1-2) | 45 57 5 9 22 5 35 35 9 | 2 1 1 2 1 2 2 2 | 15.25% 0% 0% 0% 0% 0% 0% 0% | 5% 0% 0% 0% 0% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 08-Nov-22 | 30-Nov-22 07-Dec-22 07-Dec-22 08-Feb-23 18-Nov-22 14-Jan-23 17-Dec-22 28-Jan-23 24-Dec-22 25-Feb-23 10-Feb-23 04-Mar-23 10-Feb-23 04-Mar-23 18-Nov-22 14-Jan-23 17-Dec-22 28-Jan-23 | 14-Feb-23 27-Jan-23 24-Feb-23 03-Mar-23 20-Apr-23 20-Apr-23 27-Jan-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 08-Nov-22 19-Nov-22 | 30-Nov-22 55 07-Dec-22 55 18-Nov-22 55 17-Dec-22 55 24-Dec-22 55 10-Feb-23 55 18-Nov-22 55 | | | | | | |
| 2.53,1310b 2.53,1310c 2.53,1320 2.53,1330 2.53,1340 2.53,1350 2.53,1351 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 2.53,1360 | Subletting of Formworks, Concretor and Miscellaneous Works Construction of RC sublantularies of sludge displace building (Grid 2-4) Backfilling to ground level and removal of ELS (Gride 2-4) Installation of ELS and excavation for pile cap of Studge Holding Tanks (523m3 exca. 1team) Construction of RC structure of Studge Holding Tanks (below ground, 226m3) Backfilling to ground level and removal of ELS (Studge Holding Tank) Construction of RC Structure (Studge Holding Tank) Construction of RC Structure (Studge Ground, 856m3) Installation of ELS and excavation for substructures of Studge Digostor Building (Gride 1-2) (523m3 exca, 1 | 45 57 5 9 22 5 35 35 9 22 | 2 1 1 2 1 2 2 2 | 15.25% 0% 0% 0% 0% 0% 0% 0% | 5% 0% 0% 0% 0% 0% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 08-Nov-22 19-Nov-22 | 304lor-22 07-Dec-22 07-Dec-22 08-Feb-23 18-lor-22 18-lor-23 10-Feb-23 04-Mar-23 10-Feb-23 04-Mar-23 18-lor-22 14-Jan-22 12-Jan-23 24-Dec-22 28-Jan-23 24-Dec-22 25-Feb-23 | 14-Feb-23 27-Jan-23 24-Feb-23 03-Mar-23 20-Apr-23 27-Jan-23 24-Feb-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 08-Nov-22 | 30-Nov-22 55 07-Doo-22 55 18-Nov-22 55 18-Nov-22 55 24-Doo-22 55 10-Feb-23 55 10-Feb-23 55 17-Doo-22 55 | | | | | - | |
| C.S3.1310b C.S3.1310c C.S3.1320 C.S3.1330 C.S3.1330 C.S3.1350 C.S3.1351 C.S3.1351 C.S3.1360 C.S3.1360 C.S3.1390 C.S3.1400 C.S3.1410 MWorks | Suberting of Formworks, Concretor and Miscellaneous Works Construction of RC substructures of sludge displace building (Grid 2-4) Baschfilling to ground level and removal of ELS (Grob 2-4) Installation of ELS and excavation for pile cap of Studge Holding Tanks (523m3 exca. 1team) Construction of RC structure of Studge Holding Tanks (below ground. 226m3) Baschfilling to groundlevel and removal of ELS (Studge Holding Tank) Construction of RC Structure (Studge Holding Tank) Construction of RC Structure (Grobe 1-4) (above ground. 859m3) Installation of ELS and excavation for substructures of Studge Digestor Building (Gride 1-2) (523m3 excs. 1 Construction of RC substructure of studge digestor building (Grid 1-2) Baschfilling to ground level and removal of ELS (Grids 1-2) | 45 57 5 9 22 5 35 35 9 22 5 | 2 1 1 2 1 2 2 2 | 15.25% 0% 0% 0% 0% 0% 0% 0% | 5% 0% 0% 0% 0% 0% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 08-Nov-22 19-Dec-22 | 30-Nov-22 07-Des-22 07-Des-22 08-feb-23 18-Nov-22 28-Jan-23 24-Des-22 25-feb-23 18-Nov-22 14-Jan-23 17-Des-22 28-Jan-23 24-Des-22 25-feb-23 07-Jan-23 21-4-Jan-23 | 14-Feb-23 27-Jan-23 24-Feb-23 03-Mar-23 20-Apr-23 27-Jan-23 24-Feb-23 03-Mar-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 19-Nov-22 19-Nov-22 19-Dec-22 11-Feb-23 | 30-Nov-22 55 07-0x-02 55 18-Nov-22 55 18-Nov-22 55 24-0x-02 55 24-0x-02 55 10-Feb-23 55 18-Nov-22 55 18-Nov-22 55 24-0x-02 55 24-0x-02 55 24-0x-02 55 24-0x-02 55 55 55 55 55 56 57 58 58 58 58 58 58 58 58 58 58 | | | | | - | |
| C.S3.1310a C.S3.1310b C.S3.1310b C.S3.1310c C.S3.1320 C.S3.1330 C.S3.1340 C.S3.1361 C.S3.1360 C.S3.1400 C.S3.1410 M Works C.S3.1380a C.S3.1380a C.S3.1380a | Subjecting of Formworks, Concretor and Miscellaneous Works Construction of RC substructures of studge objects obtiding (Grid 2-4) Backfilling to ground level and removal of ELS (Grids 2-4) Installation of ELS and excavation for pile cap of Studge Hidding Tanks (623m3 exca. Iteam) Construction of RC structure of Studge Hidding Tanks (below ground 225m3) Backfilling to ground level and removal of ELS (Studge Holding Tank) Construction of RC superstructure (Studge Holding Tank) Construction of RC superstructure (Studge Holding Tank) Installation of ELS structure (Grids 1-4) (above ground, 856m3) Construction of RC superstructure (Studge Holding Tank) Construction of RC substructure of substructures of Subtige Disposor Building (Grids 1-2) (523m3 exca. 1 Construction of RC substructure of studge digestor building (Grid 1-2) Backfilling to ground level and removal of ELS (Grids 1-2) Installation of Submersible Mixer, Arr Stower, Arr Diffuser, Feed Pump, DOU | 45 57 5 9 22 5 35 35 9 22 5 | 2 1 1 2 1 2 2 1 2 1 | 15.25% | 5% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 27-Be-02-2 19-Nov-22 19-Dec-22 11-Feb-23 27-Feb-23 | 30-Nov-22 07-Des-22 07-Des-22 08-feb-23 18-Nov-22 28-Jan-23 24-Des-22 05-feb-23 10-Feb-23 04-Mar-23 18-Nov-22 28-Jan-23 24-Des-22 25-Feb-23 05-May-23 05-May-23 05-May-23 05-May-23 05-May-23 05-May-23 05-May-23 05-May-23 07-Des-22 05-Feb-23 05-May-23 05-May-23 07-Des-22 05-Feb-23 05-May-23 07-Des-22 05-Feb-23 05-May-23 07-Des-22 05-Feb-23 05-May-23 07-Des-22 05-Feb-23 05-May-23 07-Des-22 07-Des-22 05-Feb-23 05-May-23 07-Des-22 07-Des | 14Fob-23 27-Jan-23 24Fob-23 03Mar-23 20-Apr-23 20-Apr-23 27-Jan-23 24-Fob-23 03-Mar-23 28-Jul-23 28-Jul-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 19-Nov-22 19-Nov-22 11-Dec-22 11-Feb-23 27-Feb-23 | 30-Nov-22 555 07-0o-22 555 18-Nov-22 555 18-Nov-22 555 24-Dec-22 555 10-Feb-23 555 10-Feb-23 555 11-Peb-22 555 17-Dec-22 556 24-Dec-22 556 24-Dec-23 557 17-Dec-23 557 17-Dec-24 557 17-Dec-25 557 18-Nov-25 557 18- | | | | | | |
| 2.53,1310b 2.53,1310c 2.53,1320 2.53,1330 2.53,1330 2.53,1340 2.53,1360 2.53,1360 2.53,1390 2.53,1400 2.53,1400 2.53,1360 3.53,1380 3.53,1380a 3.53, | Suberting of Formworks, Concretor and Miscettaneous Works Construction of RC substructures of studge dispetor building (Gird 2-4) Backfilling to ground level and more and ELS (Girds 2-24) Installation of ELS and excavation for pile cap of Studge Holding Tanks (623m3 exca. 1team) Construction of RC structure of Studge Holding Tanks below ground 226m3) Backfilling to ground level and removal of ELS (Studge Holding Tank) Construction of RC super structure (Studge Holding Tank) Construction of RC Structure (Gituge Holding Tank) Construction of RC substructure of studge digestor building (Gird 1-2) (523m3 exca. 1 Construction of RC substructure of studge digestor building (Gird 1-2) Backfilling to ground level and removal of ELS (Girds 1-2) Installation of Submersible Mixer, Air Blower, Air Diffuser, Feed Pump, DOU Installation of Code Containment & Conduit | 57 57 5 9 22 5 35 36 9 22 5 | 2 1 1 2 1 2 2 1 2 1 2 | 15.25% 0% 0% 0% 0% 0% 0% 0% 0% 0% | 5% 0% 0% 0% 0% 0% 0% 0% 0% | | 19-Jan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 11-Feb-23 27-Feb-23 | 30-Nov-22 07-Doo-22 07-Doo-22 08-feb-23 17-Doo-22 28-lan-23 17-Doo-22 28-lan-23 10-Feb-23 04-Mar-23 18-Nov-22 14-Jan-23 24-Doo-22 28-Jan-23 24-Doo-22 28-Jan-23 24-Jan-23 24-Jan | 14Fob-23 27-Jan-23 24Fob-23 03Man-23 20-Apr-23 20-Apr-23 27-Jan-23 24Fob-23 03Man-23 28-Jul-23 28-Jul-23 20-May-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 08-Nov-22 19-Dec-21 19-Dec-22 19-Dec-23 11-Feb-23 11-Feb-23 | 30-Nov-22 55 07-0o-22 55 18-Nov-22 55 17-Do-22 55 17-Do-22 55 10-Feb-23 55 10-Feb-23 55 18-Nov-22 55 24-Do-22 55 24-Do-22 55 24-Do-22 55 24-Do-23 55 08-May-23 42 11-Mar-23 55 | | | | | - | |
| ,53,1310b ,53,1310c ,53,1310c ,53,1320 ,53,1330 ,53,1340 ,53,1360 ,53,1360 ,53,1360 ,53,1410 ,53,1410 ,53,1410 ,53,1410 ,53,1410 ,53,1410 ,53,1410 ,53,1410 ,53,1410 ,53,1410 ,53,1410 ,53,1410 ,53,1410 | Suberting of Formworks, Concretor and Miscellaneous Works Construction of RC substructures of studge dispatch building (Gird 2-4) Baschfling to ground level and removal of ELS (Girds 2-4) Installation of ELS and excavation for pile cap of Studge Holding Tanks (523m3 exca. 1team) Construction of RC structure of Studge Holding Tanks, below ground. 226m3) Backfling to ground level and removal of ELS (Gibbs Holding Tank) Construction of RC superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure (Studge Holding Tank) Construction of RC Superstructure of Studge Digestructure (Studge Holding Tank) Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC Superstructure of Studge Tank Construction of RC | 45 57 5 9 22 5 35 35 36 9 22 5 | 2 1 1 2 1 2 2 1 2 1 2 | 15.25% | 5% 0% 0% 0% 0% 0% 0% 0% 0% 0% | | 19lan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 19-Nov-22 19-Dec-22 11-Feb-23 27-Feb-23 27-Feb-23 | 30-Nov-22 07-Doo-22 07-Doo-22 07-Doo-22 08-fab-23 18-Nov-22 18-Jan-23 10-Fab-23 04-Mar-23 16-Nov-22 18-Jan-23 18-Nov-22 18-Jan-23 07-Jan-23 18-Nov-22 18-Jan-23 07-Jan-23 18-Jan-23 08-May-23 18-Jan-23 08-May-23 18-Jan-23 18-Jan-23 08-Jan-23 08-Jan | 14Fob-23 27-Jan-23 24-Fob-23 05Mar-23 20-Apr-23 20-Apr-23 27-Jan-23 24-Fob-23 03-Mar-23 28-Jul-23 28-Jul-23 29-Jun-23 28-Jun-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 19-Nov-22 19-Nov-22 11-Feb-23 27-Feb-23 27-Feb-23 | 30-Nov-22 55 07-0o-22 55 07-0o-22 55 17-0o-22 55 17-0o-22 55 14-0o-22 55 10-Feb-23 55 18-Nov-22 55 18-Nov-22 55 17-0o-22 55 24-0o-22 55 18-Nov-22 55 08-May-23 51 08-May-23 55 21-Apt-23 55 | | | | | - | |
| 2.53,1310b 2.53,1310b 2.53,1310c 2.53,1320 2.53,1330 2.53,1340 2.53,1350 2.53,1360 2.53,1360 2.53,1360 2.53,1410 M Works 2.53,1380a 2.53,1380a 2.53,1380a 2.53,1380a 2.53,1380a 2.53,1380a 2.53,1380a 2.53,1380a 2.53,1380a | Suberting of Formworks, Concretor and Miscettaneous Works Construction of RC substructures of studge dispetor building (Gird 2-4) Backfilling to ground level and more and ELS (Girds 2-24) Installation of ELS and excavation for pile cap of Studge Holding Tanks (623m3 exca. 1team) Construction of RC structure of Studge Holding Tanks below ground 226m3) Backfilling to ground level and removal of ELS (Studge Holding Tank) Construction of RC super structure (Studge Holding Tank) Construction of RC Structure (Gituge Holding Tank) Construction of RC substructure of studge digestor building (Gird 1-2) (523m3 exca. 1 Construction of RC substructure of studge digestor building (Gird 1-2) Backfilling to ground level and removal of ELS (Girds 1-2) Installation of Submersible Mixer, Air Blower, Air Diffuser, Feed Pump, DOU Installation of Code Containment & Conduit | 57 57 5 9 22 5 35 36 9 22 5 | 2 1 1 2 1 2 2 1 2 1 2 | 15.25% 0% 0% 0% 0% 0% 0% 0% 0% 0% | 5% 0% 0% 0% 0% 0% 0% 0% 0% | | 19- lan-22 | 23-Sep-22 A 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 27-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 11-Feb-23 27-Feb-23 | 30-Nov-22 07-Doo-22 07-Doo-22 08-feb-23 17-Doo-22 28-lan-23 17-Doo-22 28-lan-23 10-Feb-23 04-Mar-23 18-Nov-22 14-Jan-23 24-Doo-22 28-Jan-23 24-Doo-22 28-Jan-23 24-Jan-23 24-Jan | 14Fob-23 27-Jan-23 24Fob-23 03Man-23 20-Apr-23 20-Apr-23 27-Jan-23 24Fob-23 03Man-23 28-Jul-23 28-Jul-23 20-May-23 | 20-Sep-22 01-Dec-22 08-Nov-22 19-Nov-22 19-Dec-22 27-Dec-22 08-Nov-22 19-Dec-21 19-Dec-22 19-Dec-23 11-Feb-23 11-Feb-23 | 30-Nov-22 55 07-0o-22 55 18-Nov-22 55 17-Do-22 55 17-Do-22 55 10-Feb-23 55 10-Feb-23 55 18-Nov-22 55 24-Do-22 55 24-Do-22 55 24-Do-22 55 24-Do-23 55 08-May-23 42 11-Mar-23 55 | | | | | - | |







| ~ | Activity Name | Ori, Dur (d) | IHA (d) | Time Elapsed % | Actual Workdone % | Actual Start | Actual Finish | Early Start | Early Finish | Late Start | Late Finish | Early Start (Rev.17) | Early Finish (Rev.17) | Amended Activities | Total Float D | JFM 4MJ | JASON | D J F M A J J | 2 Iasond Jew | 14 JUNSON | ADJEMAMJJAS | ONDJ |
|--|--|----------------|---------|----------------|----------------------|------------------------|---------------|--|--|--|--|-------------------------------------|--|-----------------------|------------------|---------|-------|---------------|-----------------|-----------------|--------------|----------|
| &M Works - ? | 30-month performance verification (At least 9 months before End of S3) | | | 0% | | | | 18-Apr-24 | 12-Jan-25 | | 01-Apr-25 | 11-Apr-24 | 05-Jan-25 | | 79 | | | | | | T | |
| .S3,3180 | 30-month performance verification (At least 9 months before End of S3) (Period from 0th to 9th month) | 270 | 0 | 0% | 0% | | | 18-Apr-24 | 12-Jan-25 | 06-Jul-24 | 01-Apr-25 | 11-Apr-24 | 05-Jan-25 | • | 79 | | | | | | 1 | — |
| struction (| of Underground Utilities | | | 0% | | | | 17-Jan-24 | 06-Mar-24 | 26-Jan-24 | 15-Mar-24 | 10-Jan-24 | 28-Feb-24 | | 8 | | | | | | - | |
| .S3.3250 | Construction underground utilities for MBR. Treatment Facilities and Perliminary Treatment Facilities | 38 | 2 | 0% | 0% | | | 17-Jan-24 | 06-Mar-24 | 26-Jan-24 | 15-Mar-24 | 10-Jan-24 | 28-Feb-24 | | 8 | l | | 1 1 | | mini | - | |
| | molition of existing Preliminary Treatment System | | | 0% | | | | 18-Apr-24 | 02-Jul-24 | 18-Apr-24 | 31-Jul-24 | 11-Apr-24 | 25-Jun-24 | | 29 | | | | | | | |
| 3.4010 | Demolition of existing inlet pumping station, preliminary treatment facilities & primary sediment tank | 40 | 3 | 0% | 0% | | | 18-Apr-24 | 08-Jun-24 | 18-Apr-24 | 08-Jun-24 | 11-Apr-24 | 01-Jun-24 | | 0 | | | | | | _ | |
| 3.4020 | Modification of Inlet Chamber | 56 | 4 | 0% | 0% | | | 19-Apr-24 | 02-Jul-24 | 21-May-24 | 31-Jul-24 | 13-Apr-24 | 25-Jun-24 | | 25 | | | | | | _ | |
| S3,4030 | Demolition of existing Transformer House | 39 | 3 | 0% | 0% | | | 18-Apr-24 | 07-Jun-24 | | 19-Jun-24 | 11-Apr-24 | 31-May-24 | | 9 | | | | | | _ | |
| S3,4031 | Ground Investigation (7 nos, 1 rig, 1 learn) | 22 | 2 | 0% | 0% | | | 11-May-24 | 08-Jun-24 | 11-May-24 | 08-Jun-24 | 04-May-24 | 01-Jun-24 | | 0 | | | 1 | | terteete | | |
| S3.4040 | Disconnecting data link of removed existing equipment from the existing SCADA systm (Phase 4 Demolition | | 3 | 0% | 0% | | | 26-Jun-24 | 02-Jul-24 | 25-Jul-24 | 31-Jul-24 | 19-Jun-24 | 25-Jun-24 | | 29 | | | | | | ف ا | |
| | nstruction of Remaining Buildings | | | 28.82% | 0.0 | 12-Jul-21 | | 12-Jul-21 A | 02-Oct-25 | 10-Oct-22 | 02-Jan-26 | 12-Jul-21 | 02-Oct-25 | | 92 | | - | + + + | +- | | + | + |
| | of WAS Storage Tank of Sludge Centrifuge House | | | 0% | | | | 18-Jul-23 | 19-Sep-24 | 05-Sep-23 | 15-Nov-24 | 01-Aug-23 | 04-Oc1-24 | | 47 | | | | | - | + | . |
| ristruction o | | | | D% | | | | 18-Jul-23 | 19-Sep-24 | 05-Sep-23 | 15-Nov-24 | 01-Aug-23 | 04-Oct-24 | | 47 | | | | | | + | . 1 |
| D,S3,3190 | Pling works for pre-bored socket H-piles (14 nos, dia 610 x 14m, 1 teams) | 26 | 4 | 0% | 0% | | | 18-Jul-23 | 21-Aug-23 | 05-Sep-23 | 11-Oct-23 | 01-Aug-23 01-Aug-23 | 04-Sep-23 | | 42 | ļ | | | | | | |
| C.S3,3190 C.S3,3200 | Installation of sheet roles and Proof Drill | 56 | 4 | D% | 0% | | - | 22-Aug-23 | 02-Nov-23 | | 21-Dec-23 | 01-Aug-23 06-Sep-23 | 16-Nov-23 | | 42 | | | | | | | |
| C,S3,3201 | Pile Loading Test of Tension Pile | 8 | 1 | 0% | 0% | | | 03-Nov-23 | 10-Nav-23 | | 02-Jan-24 | 17-Nov-23 | 24-Nov-23 | | 42 | | | | | ι I Т. | | |
| 0,83,3201 0,83,3210 | Hije Loading Lest of Tension Pije Excavation and installation of ELS for WAS Storage Tank | 84 | 6 | 0% | 0% | | - | 11-Nov-23 | 10-Nov-23 01-Mar-24 | 03-Jan-24 | 24-Apr-24 | 17-Nov-23 25-Nov-23 | 24-Nov-23 15-Mar-24 | | 42 | | | | | | | |
| 2.83.3210 2.83.3220 | - | 84 | 6 | | 0% | | - | | | | | | | | 42 | | | | | | T | |
| J.S3.3220 C S3.3230 | Construction of RC Structure (below ground) Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS | 12 | 2 | 0% | 0% | | | 02-Mar-24 24-Jun-24 | 22-Jun-24 10-Jul-24 | 25-Apr-24 19-Aug-24 | 12-Aug-24 03-Sep-24 | 16-Mar-24 09-Jul-24 | 08-Jul-24 24-Jul-24 | | 47 | | | | | ļļļ | | |
| J.S3.3230 D.S3.3240 | | 12 | 6 | D% | 0% | | - | | | - | 03-Sep-24 15-Nov-24 | | 24-Jul-24 04-Oct-24 | | 47 | | | | | | | |
| | Construction of RC Structure (above ground) | 94 | ь | 33.76% | U% | 12-Jul-21 | | 11-Jul-24 12-Jul-21 A | 19-Sep-24 | 04-Sep-24 17-Nov-22 | 15-Nov-24 27-Mar-25 | 25-Jul-24 12-Jul-21 | 04-Oc1-24 11-Feb-25 | | 97 | | | | | | | |
| | of Effluent Reuse Building abrication and Delivery of Major E&M Equipment | | | 38.86% | | 12-Jul-21 12-Jul-21 | | 12-Jul-21 A | 18-Feb-25 29-Aug-24 | 17-Nov-22 17-Nov-22 | 27-Mar-25 16-Oct-24 | 12-Jul-21 | | | 3/ | | | | | | | |
| | | 45 | - | 0010010 | 1000 | | OF Aug Of | 10 000 01111 | 2011092 | | T6-U61-24 | | 29-Aug-24 | | 48 | | | | | | | |
| C,S3,5125a | Tendering of Subconfrator | | 0 | 100% | 100% | 12-Jul-21 | 25-Aug-21 | 12-Jul-21 A | 25-Aug-21 A | | 04 14 00 | 12-Jul-21 | 25-Aug-21 | | 40 | | | 1i | | <u> </u> | | |
| 2.S3.5125b | Equipment Submission and Approval | 650 | 0 | 61.54% | 30% | 26-Aug-21 | | 26-Aug-21 A | 06-Jun-23 | 17-Nov-22 | 24-Jul-23 | 26-Aug-21 | 06-Jun-23 | | 48 | | | | | | | |
| C.S3.5130a | Procurement | 90 | 0 | 0% | 0% | | | 07-Jun-23 | 04-Sep-23 | 25-Jul-23 | 22-Ocl-23 | 07-Jun-23 | 04-Sep-23 | | 48 | | | | | T | | |
| C.S3,5130b | Fabrication | 240 | 0 | 0% | 0% | | | 05-Sep-23 | 01-May-24 | 23-Oct-23 | 18-Jun-24 | 05-Sep-23 | 01-May-24 | | 48 | | | | | | T I | |
| C.S3.5130c | Delivery | 120 | 0 | 0% | 0% | | | 02-May-24 | 29-Aug-24 | 19-Jun-24 | 16-Ocl-24 | 02-May-24 | 29-Aug-24 | | 48 | | | | | | | L |
| ril & Structural | Works | | | D% | | | | 11-Jun-24 | 05-Oct-24 | 19-Jul-24 | 13-Nov-24 | 03-Jun-24 | 27-Sep-24 | | 32 | ļ | | | | | | |
| C.S3.5140a | Installation of pipe pile wall of ELS (55 nos, dia323 x 8m, 1 team) | 12 | 8 | 0% | 0% | | | 11-Jun-24 | 04-Jul-24 | 19-Jul-24 | 10-Aug-24 | 03-Jun-24 | 26-Jun-24 | | 32 | | | | | | - | |
| C.S3.5140b | Proof Drill | 7 | 5 | 0% | 0% | | | 05-Jul-24 | 18-Jul-24 | 12-Aug-24 | 24-Aug-24 | 27-Jun-24 | 11-Jul-24 | | 32 | | | | | | J 3 | |
| C.S3.5150 | Grout Curtain Works | 11 | 1 | 0% | 0% | | | 05-Jul-24 | 18-Jul-24 | 12-Aug-24 | 24-Aug-24 | 27-Jun-24 | 11-Jul-24 | | 32 | | | | | | D. | |
| C.S3.5160 | Installation of ELS and Excavation for basement(970m3 exca, 1team) | 11 | 1 | 0% | 0% | | | 19-Jul-24 | 01-Aug-24 | 26-Aug-24 | 07-Sep-24 | 12-Jul-24 | 25-Jul-24 | | 32 | | | | | | ,D | |
| C.S3.5170 | Construction of RC structure (below ground, 437m3) | 22 | 2 | 0% | 0% | | | 02-Aug-24 | 29-Aug-24 | 09-Sep-24 | 08-Oct-24 | 26-Jul-24 | 22-Aug-24 | | 32 | | | | | | | |
| C.S3.5180 | Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS | 5 | 1 | 0% | 0% | | | 30-Aug-24 | 05-Sep-24 | 09-Oct-24 | 16-Oct-24 | 23-Aug-24 | 29-Aug-24 | | 32 | | | T i i | | | 7 | |
| C.S3.5190 | Construction of RC Structure (above ground, 213m3) | 22 | 2 | 0% | 0% | | | 06-Sep-24 | 05-Oct-24 | 17-Oct-24 | 13-Nov-24 | 30-Aug-24 | 27-Sep-24 | | 32 | | | | | | _ | • |
| M Works | | | | 0% | | | | 06-Sep-24 | 18-Feb-25 | 17-Oct-24 | 27-Mar-25 | 30-Aug-24 | 11-Feb-25 | | 37 | | | | | | | |
| C,S3,5210 | E&M,LVSB and BS Installation (UV system, Chemical tanks and dosing system and etc.) | 67 | 5 | 0% | 0% | | | 06-Sep-24 | 02-Dec-24 | 17-Oct-24 | 11-Jan-25 | 30-Aug-24 | 25-Nov-24 | | 32 | | | | | | | |
| C.S3.5220a | SCADA System Site Acceptance Test (Phase 5 Effluent Reuse Construction) | 60 | 0 | 0% | 0% | | | 22-Oct-24 | 20-Dec-24 | 28-Nov-24 | 26-Jan-25 | 15-Oct-24 | 13-Dec-24 | | 37 | | | | | | | |
| C.S3.5220b | SCADA System Commissioning Test (Phase 5 Effluent Reuse Construction) | 60 | 0 | 0% | 0% | | | 21-Dec-24 | 18-Feb-25 | 27-Jan-25 | 27-Mar-25 | 14-Dec-24 | 11-Feb-25 | | 37 | | | 1 | | † | | <u> </u> |
| C,S3,5230b | System Commissioning Test (Interim Testing) | 60 | 0 | D% | 0% | | | 21-Dec-24 | 18-Feb-25 | 27-Jan-25 | 27-Mar-25 | 14-Dec-24 | 11-Feb-25 | | 37 | | | | | | | 4 |
| ernal Architect | 7 | 120 | | 0% | 0.10 | | | 07-Oct-24 | 23-Jan-25 | 06-Dec-24 | 27-Mar-25 | 28-Sep-24 | 16-Jan-25 | | 51 | | | | | | | - |
| C.S3.5200 | Architectural Works (Internal) | 84 | 6 | 0% | 0% | | | 07-0ct-24 | 23-Jan-25 | 06-Dec-24 | 27-Mar-25 | 28-Sep-24 | 16-Jan-25 | | 51 | | | | | | | |
| | of Sludge Centrifuge Building & Genset and Fuel Tank Rooms | | | 32.7% | 0.0 | 12-Jul-21 | | 12-Jul-21 A | 02-Apr-25 | 07-Dec-22 | 02-Apr-25 | 12-Jul-21 | 02-Apr-25 | | 0 | | | + | - | | + | H |
| | abrication and Delivery of Major E&M Equipment | | | 38.53% | | 12-Jul-21 | | 12-Jul-21 A | 08-Sep-24 | 07-Dec-22 | 15-Nov-24 | 12-Jul-21 | 08-Sep-24 | | 6B | | - | | | | | |
| C.S3.5005a | Tenderina of Subconfrator | 45 | n | 100% | 100% | 12-Jul-21 | 25-Aug-21 | 12-Jul-21 A | 25-Aug-21 A | | 15-1164-24 | 12-Jul-21 | 25-Aug-21 | | -00 | | _ | | | | | |
| C.S3.5005h | Equipment Submission and Approval | 660 | 0 | 60.61% | 30% | 26-Aug-21 | zo-rug-z i | 26-Aug-21 A | 25-Aug-21 A 16-Jun-23 | | 23-Aug-23 | 26-Aug-21 | 25-Aug-21 16-Jun-23 | | 68 | | | | | | | |
| C,53,50000 C,53,5010a | Equipment Submission and Approval Procurement | 45 | 0 | 0% | 0% | zo-nug-z1 | - | 26-Aug-21 A 17-Jun-23 | 31-Jul-23 | | 23-Aug-23 07-Oct-23 | 26-Aug-21 17-Jun-23 | 31-Jul-23 | | 66 | | | | | | | 1 |
| 0.00.00100 | | 225 | | | 0.14 | | - | | 31-Jul-23 12-Mar-24 | 24-Aug-23 | 19-May-24 | | 31-Jul-23 12-Mar-24 | | 68 | | | | | : T | | |
| C.S3.5010b C.S3.5010c | Pabrication Delivery | 180 | 0 | D% | 0% | | _ | 01-Aug-23 13-Mar-24 | 12-Mar-24 08-Sen-24 | 08-Oct-23 20-May-24 | 19-May-24 15-Nov-24 | 01-Aug-23 13-Mar-24 | 12-Mar-24 08-Sep-24 | | 68 | | | | | ļļ | | |
| C.S3.50100 vil & Structural | Don't Co | 180 | U | 0.10 | U% | | | 13-Mar-24 | 00 00p E1 | Lo may L | | 10 11101 21 | 00 00p E1 | | 08 | | | | | | | _ |
| | | 90 | | 0% | 924 | | | 03-Jun-24 | 15-Nov-24 | 03-Jun-24 | 15-Nov-24 | 03-Jun-24 | 15-Nov-24 | | U | | | | | | | 1 |
| C.S3,5020a | Piling works for pre-bored socket H-piles (24 nos, dia610 x 15m, 1team) | 23 | 4 | D% | 0% | | | 03-Jun-24 | 05-Jul-24 | 03-Jun-24 | 05-Jul-24 | 03-Jun-24 | 05-Jul-24 | | 0 | | | | | | 1 7 | |
| C,S3,5030 | Installation of pipe pile wall of ELS (80 ros, dia323 x 6m, 1 teams) | 18 | 6 | 0% | 0% | | | 24-Jun-24 | 22-Jul-24 | 24-Jun-24 | 22-Jul-24 | 24-Jun-24 | 22-Jul-24 | | 0 | | | | | | 1 . | |
| S3 5040 | Grout Curlain Works | 16 | 2 | D% | 0% | | | 23-Jul-24 | 12-Aug-24 | 23-Jul-24 | 12-Aug-24 | 23-Jul-24 | 12-Aug-24 | | 0 | ļ | | | | iii | | |
| -,, | Excavation for pumping tank (130m3 exca, 1team) | 11 | 1 | 0% | 0% | | | 13-Aug-24 | 26-Aug-24 | 13-Aug-24 | 26-Aug-24 | 13-Aug-24 | 26-Aug-24 | | 0 | | | | | | | |
| C.S3.5050 | | 22 | 2 | 0% | 0% | | | 27-Aug-24 | 24-Sep-24 | 27-Aug-24 | 24-Sep-24 | 27-Aug-24 | 24-Sep-24 | | 0 | | | | | | | |
| C.S3.5050 C.S3.5060 | Construction of RC structure (below ground, 887 m3) | | 2 | D% | 0% | | | 25-Sep-24 | 03-Oct-24 | 25-Sep-24 | 03-Oct-24 | 25-Sep-24 | 03-Oct-24 | | 0 | | | | | | | |
| C.S3.5050 C.S3.5060 C.S3.5070 | Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS | 5 | _ | | | | | | 15-Nov-24 | 04-Oct-24 | 15-Nov-24 | 04-Oct-24 | 15-Nov-24 | | 0 | | | | | | 1 : : : | - |
| C.S3.5050 C.S3.5060 C.S3.5070 | | 5 34 | 2 | 0% | 0% | | | 04-Oct-24 | 101100-21 | 010002 | | | | | - 11 | | | | | : : : | | |
| C.S3.5050 C.S3.5060 C.S3.5070 C.S3.5080 | Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS | | _ | 0% 0% | 0% | | | 04-Ost-24 16-Nov-24 | 02-Apr-25 | 16-Nov-24 | 02-Apr-25 | 16-Nov-24 | 02-Apr-25 | | 0 | | | | | | | - |
| C.S3.5050 C.S3.5060 C.S3.5070 C.S3.5080 .M Works | Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS | | _ | | 0% 0% | | | | | | | 16-Nov-24 16-Nov-24 | | | | | | | | | | _ |
| C.S3.5050 C.S3.5060 C.S3.5070 C.S3.5080 M Works C.S3.5100 | Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS Construction of RC Structure (above ground, 1310 m3) | 34 | 2 | 0% | | | | 16-Nov-24 | 02-Apr-25 | 16-Nov-24 | 02-Apr-25 | | 02-Apr-25 | | 0 | | | | | | | - |
| C.S3.5050 C.S3.5060 C.S3.5070 C.S3.5080 C.S3.5080 C.S3.5100 C.S3.5110a | Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS Construction of RC Structure (above ground, 1310 m3) ERMILVSB and BS Installation (certifuges and its auxiliary equipment and Polymer preparation system) SCADA System Site Acceptance Test (Phase 5 Studge Centrifuge Construction) | 34 | 2 | D% | 0% | | | 16-Nov-24 16-Nov-24 16-Nov-24 | 02-Apr-25 01-Feb-25 15-Dec-24 | 16-Nov-24 16-Nov-24 03-Jan-25 | 02-Apr-25 01-Feb-25 | 16-Nov-24 16-Nov-24 | 02-4pr-25 01-Feb-25 | | 0 | | | | | | | Ī |
| C.S3.5050 C.S3.5060 C.S3.5070 C.S3.5080 M Works C.S3.5100 C.S3.5110a C.S3.5110b | Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS Construction of RC Structure (above ground, 1310 m3) EBMLVSB and BS Installation (centrifuges and its auxiliary equipment and Polymer preparation system) | 34 56 30 | 5 0 | 0% 0% 0% | 0% 0% | | | 16-Nov-24 16-Nov-24 | 02-Apr-25 01-Feb-25 | 16-Nov-24 16-Nov-24 03-Jan-25 | 02-Apr-25 01-Feb-25 01-Feb-25 | 16-Nov-24 | 02-Apr-25 01-Feb-25 15-Dec-24 | | 0 0 48 | | | | | | | 1 |
| C.S3.5040 C.S3.5050 C.S3.5060 C.S3.5070 C.S3.5080 EM Works C.S3.5100 C.S3.5110a C.S3.5110b C.S3.5120b C.S3.5120b | Removal of formworks, falseworks application of waterproofing, backfilling and removal of ELS Construction of RC Structure (above ground, 1310 m3) EBMLIVSB and BS Installation (certifuges and its auxiliary equipment and Polymer preparation system) SCADA System Site Acceptance Test (Phase 5 Studge Centrifuge Construction) SCADA System Commissioning Test (Phase 5 Studge Centrifuge Construction) | 56 30 30 | 5 0 | 0% 0% 0% | 0% 0% 0% | | | 16-Nov-24 16-Nov-24 16-Nov-24 16-Dec-24 | 02-Apr-25 01-Feb-25 15-Dec-24 14-Jan-25 | 16-Nov-24 16-Nov-24 03-Jan-25 02-Feb-25 | 02-Apr-25 01-Feb-25 01-Feb-25 03-Mar-25 | 16-Nov-24 16-Nov-24 16-Dec-24 | 02-Apr-25 01-Feb-25 15-Dec-24 14-Jan-25 | | 0 0 48 | | | | | | | 1 |



| Activity ID | Activity Name | Ori, Dur (d) | TRA (d) | Time Elapsed % | Actual Workdone % | Actual Start | Actual Finish | Early Start | Early Finish | Late Start | Late Finish | Early Start (Rev.17) | Early Finish (Rev.17) | Amended Activities | Total Float | DIFMAN | 2021 JJJ AS CH | NO JEWA | 2022 4 J J A S | QNDJFM4 | 2023 JJASONE | 2024 201 F M 4 M J . | JASONDJ |
|----------------------------|--|--------------|---------|----------------|----------------------|--------------|---------------|-------------------------|--------------|------------------------|------------------------|-------------------------|--------------------------|-----------------------|----------------|--------|-------------------|---------|-------------------|---------------------------------------|-----------------|-------------------------|--|
| DC.53.5240a | Procurement of EL Equipment | 90 | 0 | 0% | 0% | | | 30-May-23 | 27-Aug-23 | 30-Jul-23 | 27-Oct-23 | 30-May-23 | 27-Aug-23 | | 61 | | | | | | | | |
| DC,S3,5240b | Fabrication of EL Equipment | 240 | 0 | 0% | 0% | | | 28-Aug-23 | 23-Apr-24 | 28-Oct-23 | 23-Jun-24 | 28-Aug-23 | 23-Apr-24 | | 61 | | | | | | | — | |
| DC,S3,5240c | Delivery of EL Equipment | 120 | 0 | 0% | 0% | | | 24-Apr-24 | 21-Aug-24 | 24-Jun-24 | 21-Oct-24 | 24-Apr-24 | 21-Aug-24 | | 61 | | | | | / I | | • | <u>-</u> |
| DC.S3.5240d | Procurement of FS pumps | 150 | 0 | 0% | 0% | | | 30-May-23 | 26-Oct-23 | 30-Jul-23 | 26-Dec-23 | 30-May-23 | 26-Oct-23 | | 61 | | | | | <i>i</i> | | | |
| DC,S3,5240e | Fabrication of FS pumps | 200 | 0 | 0% | 0% | | | 27-Oct-23 | | 27-Dec-23 | 13-Jul-24 | 27-Oct-23 | 13-May-24 | | 61 | | | | | | | - | |
| DC.S3.5240f | Delivery of FS pumps | 100 | 0 | 0% | 0% | | | 14-May-24 | 21-Aug-24 | | 21-Oct-24 | 14-May-24 | 21-Aug-24 | | 61 | | | | | / E | | i 🛶 | <u>- </u> |
| DC.S3.5240g | Procurement of FRP water tanks | 150 | 0 | 0% | 0% | | | 30-May-23 | 26-Oct-23 | 30-Jul-23 | 26-Dec-23 | 30-May-23 | 26-Oc1-23 | | 61 | | | | | <i>i</i> | | | |
| DC.S3.5240h | Fabrication of FRP water tanks | 200 | 0 | 0% | 0% | | | 27-Oct-23 | 13-May-24 | | 13-Jul-24 | 27-Oct-23 | 13-May-24 | | 61 | | | | | | | <u> </u> | |
| DC S3 5240i | Delivery of FRP water tanks | 100 | 0 | 0% | 0% | | | 14-May-24 | 21-Aug-24 | | 21-Oct-24 | 14-May-24 | 21-Aug-24 | | 61 | | | | | | | 🛶 | _ |
| DC.S3.5240j | Procurement of pumps | 150 | 0 | 0% | 0% | | | 30-May-23 | 26-Oct-23 | | 26-Dec-23 | 30-May-23 | 26-Oct-23 | | 61 | | | | | ···· | <u></u> | | |
| DC.S3.5240k | Fabrication of pumps | 200 | 0 | 0% | 0% | | | 27-Oct-23 | 13-May-24 | | 13-Jul-24 | 27-Oct-23 | 13-May-24 | | 61 | | | | | / E | | | |
| DC.S3.5240k | Delivery of pumps | 100 | 0 | 0% | 0% | | | 14-May-24 | 21-Aug-24 | | 21-Oct-24 | 14-May-24 | 21-Aug-24 | | 61 | | | | | / i | | | _ |
| Civil & Structura | Il Works | 100 | v | 0% | U76 | | | 11-Jun-24 | 31-Oct-24 | 28-Jun-24 | 18-Nov-24 | 03-Jun-24 | 24-Oct-24 | | 15 | | | | | | | - | |
| DC.S3.5250 | | 20 | 6 | | 000 | | | 11-Jun-24 | 23-Jul-24 | 28-Jun-24 | | 03-Jun-24 | 16-Jul-24 | | 15 | | | | | | | | |
| | Installation of pipe pile wall of ELS (62 nos, dia323 x 12m, 11eam) and Sheetpile (56nos FSPIII sheetpile x6r | 16 | 2 | 0% | 0% | | | | | | 09-Aug-24 | | | | | | | | | ,li | | ļ | |
| DC,S3,5260 | Grout Curlain Works | | | 0% | 0% | | | 16-Jul-24 | 05-Aug-24 | | 22-Aug-24 | 09-Jul-24 | 29-Jul-24 | | 15 | | | | | | | | <u>.</u> |
| DC.S3.5270 | Installation of ELS and excavation for basement (940m3 exca, 1team) | 16 | 2 | 0% | 0% | | | 06-Aug-24 | 26-Aug-24 | | 12-Sep-24 | 30-Jul-24 | 19-Aug-24 | | 15 | | | | | | | | _ |
| DC.S3.5280 | Construction of RC structure (below ground, 512m3) | 22 | 2 | 0% | 0% | | | 27-Aug-24 | 24-Sep-24 | | 14-Oct-24 | 20-Aug-24 | 16-Sep-24 | | 15 | | | | | | | | - |
| DC,S3,5290 | Removal of formworks, falseworks, application of waterproofing, backfilling and removal of ELS | 5 | 1 | 0% | 0% | | | 25-Sep-24 | 02-Oct-24 | 15-Oct-24 | 21-Oct-24 | 17-Sep-24 | 24-Sep-24 | | 15 | | | | | | | | 1 |
| DC.S3.5300 | Construction of RC Structure (above ground, 326m3) | 22 | 2 | 0% | 0% | | | 03-Oct-24 | 31-Oct-24 | 22-Oct-24 | 18-Nov-24 | 25-Sep-24 | 24-Oct-24 | | 15 | ļ | | | | | | 1 | <u>=</u> |
| E&M Works | | | | 0% | | | | 03-Oct-24 | 08-Mar-25 | 22-0c1-24 | 27-Mar-25 | 25-Sep-24 | 01-Mar-25 | | 19 | | | | | | | | |
| DC,S3,5320 | E&M,LVSB and BS Installation (pumps and associated pipe works) | 67 | 5 | 0% | 0% | | | 03-Oct-24 | 28-Dec-24 | 22-Oct-24 | 16-Jan-25 | 25-Sep-24 | 19-Dec-24 | | 15 | | | | | | | | |
| DC.S3.5330 | Site Acceptance Test | 30 | 0 | 0% | 0% | | | 09-Dec-24 | 07-Jan-25 | | 26-Jan-25 | 02-Dec-24 | 31-Dec-24 | | 19 | | | | | | | | 7 |
| DC.S3.5340b | System Commissioning Test (Final Testing) | 60 | 0 | 0% | 0% | | | 08-Jan-25 | 08-Mar-25 | 27-Jan-25 | 27-Mar-25 | 01-Jan-25 | 01-Mar-25 | | 19 | | | | | | | | - |
| Internal Architec | ctural Works | | | 0% | | | | 01-Nov-24 | 20-Feb-25 | 06-Dec-24 | 27-Mar-25 | 25-Oct-24 | 13-Feb-25 | | 30 | | | | | | | | • |
| DC.S3.5310 | Architectural Works (Internal) | 84 | 6 | 0% | 0% | | | 01-Nov-24 | 20-Feb-25 | 06-Dec-24 | 27-Mar-25 | 25-Oct-24 | 13-Feb-25 | | 30 | | | | | | | | |
| Construction of | of Dangerous Goods House | | | 0% | | | | 11-Jun-24 | 23-Mar-25 | 20-Jun-24 | 02-Apr-25 | 03-Jun-24 | 16-Mar-25 | | 10 | | | | | | | V- | \neg |
| DC.S3.5350 | Installation of ELS and excavation for basement(49nos FSPIII x 9m, 70m3 exca, 11eam) | 11 | 1 | 0% | 0% | | | 11-Jun-24 | 24-Jun-24 | 20-Jun-24 | 04-Jul-24 | 03-Jun-24 | 17-Jun-24 | | 8 | | | | | | | J | |
| DC.S3.5360 | Construction of RC structure (below ground, 34m3) | 28 | 2 | 0% | 0% | | | 25-Jun-24 | 30-Jul-24 | 05-Jul-24 | 08-Aug-24 | 18-Jun-24 | 23-Jul-24 | | 8 | | | | | | | | J |
| DC.S3.5370 | Backfilling to ground level and removal of ELS | 11 | 1 | 0% | 0% | | | 31-Jul-24 | 13-Aug-24 | 09-Aug-24 | 22-Aug-24 | 24-Jul-24 | 06-Aug-24 | | 8 | | | | | | | | D |
| DC.S3.5380 | Construction of RC Structure (above ground, 21m3) | 28 | 2 | 0% | 0% | | | 14-Aug-24 | 17-Sep-24 | 23-Aug-24 | 27-Sep-24 | 07-Aug-24 | 10-Sep-24 | | 8 | 1 | | | | | 111111111 | 1 | _ |
| DC.S3.5390 | Architectural Works (Internal) | 28 | 2 | 0% | 0% | | | 19-Sep-24 | 25-Oct-24 | 28-Sep-24 | 04-Nov-24 | 11-Sep-24 | 18-Oct-24 | | - 8 | | | | | | | | - |
| DC.S3.5400a | E&M Installation and testing | 69 | 6 | 0% | 0% | | | 26-Oct-24 | 24-Jan-25 | 05-Nov-24 | 06-Feb-25 | 19-Oct-24 | 17-Jan-25 | | 8 | | | | | | | | - |
| DC S3.5400b | DG inspection by FSD | 10 | 0 | 0% | 0% | | | 14-Mar-25 | 23-Mar-25 | 24-Mar-25 | 02-Apr-25 | 07-Mar-25 | 16-Mar-25 | | 10 | | | | | | | | |
| Roadworks & | Underground Utilities (Permanent pipeworks, Sewerage System, Road Drainage System | n) | | 0% | | | | 26-Oct-23 | 14-Mar-25 | | 02-Apr-25 | 21-Oct-23 | 08-Mar-25 | | 19 | | | | | | _ | + | \rightarrow |
| DC.S3.5410 | Main access between MBR & PTF | 112 | 8 | 0% | 0% | | | 26-Oct-23 | 20-Mar-24 | | 13-Apr-24 | 21-Oct-23 | 16-Mar-24 | | 17 | ···· | | | | · · · · · · · · · · · · · · · · · · · | + | <u> </u> | |
| DC.S3.5420 | Main access between PTF, Effluent Reuse Building, FS Pumproom and Pumproom | 55 | 5 | 0% | 0% | | | 04-Sep-24 | 15-Nov-24 | | 11-Dec-24 | 04-Sep-24 | 15-Nov-24 | | 22 | | | | | | | | - |
| DC.S3.5430 | Main access between Administration Building & Inlet Chamber | 58 | 2 | 0% | 0% | | | 11-Jun-24 | 20-Aug-24 | | 27-Mar-25 | 03-Jun-24 | 13-Aug-24 | | 179 | | | | | | | | - |
| DC.S3.5440 | Main access between Studge Centrifuge Building & Studge Digestor Building | 58 | 2 | 0% | 0% | | | 11-Jun-24 | 20-Aug-24 | | 27-Mar-25 | 03-Jun-24 | 13-Aug-24 | | 179 | | | | | | | | - |
| DC S3.5450 | Permanent Flow Diversion | 4 | 1 | 0% | 0% | | | 10-Mar-25 | 14-Mar-25 | | 02-Apr-25 | 04-Mar-25 | 08-Mar-25 | | 16 | | | | | | | | - |
| DC.S3.5470 | Construction of EVA and Signage | 58 | 2 | 0% | 0% | | | 21-Dec-24 | 18-Feb-25 | 19-Jan-25 | 19-Mar-25 | 21-Dec-24 | 18-Feb-25 | | 29 | | | | | | | | |
| | | 30 | | 5.26% | 070 | 31-Jul-22 | | 31-Jul-22 A | 02-Oct-25 | | 02-Jan-26 | 31-Jul-22 | 02-Oct-25 | | 92 | | | | _ | | | | |
| Sludge Dewate | ASA works of Shidea Davisterina House | 168 | 12 | 0% | 0% | 3 I+JUI+ZZ | | 20-Jan-23 | | | | | | | 78 | | | | | 🚢 | <u> </u> | | |
| 2 2 1 1 1 1 1 1 1 1 | A&A works of Sludge Dewatering House | | | | | 24 1-122 | - | | 29-Aug-23 | - ' | 01-Dec-23 | 20-Jan-23 | 29-Aug-23 | | 78 52 | | | | | | Ti ' | | |
| DC,S3,5470a | Procurement | 185 | 0 | 32,97% | 10% | 31-Jul-22 | - | 31-Jul-22 A | 31-Jan-23 | | 24-Mar-23 | 31-Jul-22 | 31-Jan-23 | | O.E. | | | | | \Box | | | |
| DC.S3,5470b | Fabrication | 700 | 0 | 0% | 0% | | | 01-Feb-23 | 31-Dec-24 | | 21-Feb-25 | 01-Feb-23 | 31-Dec-24 | | 52 | ļļ | | | | | | | |
| DC.S3.5470c1 | Delivery | 60 | 0 | 0% | 0% | | | 01-Jan-25 | 01-Mar-25 | | 22-Apr-25 | 01-Jan-25 | 01-Mar-25 | | 52 | | | | | | | LII | |
| DC,S3,5470c2 | Installation of E&M, MCC & BS Equipment | 670 | 0 | 0% | 0% | | | 19-Oct-23 | 18-Aug-25 | | 09-Oct-25 | 19-Oct-23 | 18-Aug-26 | | 52 | | | | | | | 1 1 | |
| DC.S3,5480a1 | Testing and commissioning | 30 | 0 | 0% | 0% | | | 19-Aug-25 | 17-Sep-25 | | 18-Dec-25 | 19-Aug-25 | 17-Sep-25 | | 92 | | | | | | | | - |
| DC.S3.5480a2 | Description of the control of the co | 7 | 0 | 0% | 0% | | | 18-Sep-25 | 24-Sep-25 | 19-Dec-25 | 25-Dec-25 | 18-Sep-25 | 24-Sep-25 | | 92 | | | | | | | | 1 |
| DC,S3,5480a3 | Installation of MCC and Cabling Works | 8 | 0 | 0% | 0% | | | 25-Sep-25 | 02-Oct-25 | 26-Dec-25 | 02-Jan-26 | 25-Sep-25 | 02-Oct-25 | | 92 | ļl | | | | | <u> </u> | | |
| Administration | | | | 0% | | | | 30-Sep-22 | 04-Oct-24 | 24-Mar-23 | 02-Apr-25 | 30-Sep-22 | 04-Oct-24 | | 180 | | | | | | | | 7 |
| DC.S3.5490 | A&A works of Administration Building | 224 | 16 | 0% | 0% | | | 27-Jun-23 | 17-Apr-24 | 19-Dec-23 | 12-Oct-24 | 27-Jun-23 | 17-Apr-24 | | 146 | | 1 1 | | | | | - | |
| DC.S3.5500a | Procurement of EL Equipment | 90 | 0 | 0% | 0% | | | 30-Sep-22* | 28-Dec-22 | 24-Mar-23 | 21-Jun-23 | 30-Sep-22 | 28-Dec-22 | | 175 | | | | | | | | - |
| DC.S3.5500b | Fabrication of EL Equipment | 180 | 0 | 0% | 0% | | | 29-Dec-22 | 26-Jun-23 | 22-Jun-23 | 18-Dec-23 | 29-Dec-22 | 26-Jun-23 | | 175 | | | | | | - | | 1 |
| DC.S3.5500c | Delivery of EL Equipment | 120 | 0 | 0% | 0% | | | 27-Jun-23 | 24-Oct-23 | 19-Dec-23 | 16-Apr-24 | 27-Jun-23 | 24-Oct-23 | | 175 | | | | | | - | | |
| DC.S3.5500d | Procurement of Sanitary Fitments | 30 | 0 | 0% | 0% | | | 18-Apr-24 | 17-May-24 | 13-Oct-24 | 11-Nov-24 | 18-Apr-24 | 17-May-24 | | 178 | T | TIT | | | / T | - T - T | | |
| DC.S3,5500e | Fabrication of Sanitary Fitments | 50 | 0 | 0% | 0% | | | 18-May-24 | 06-Jul-24 | 12-Nov-24 | 31-Dec-24 | 18-May-24 | 06-Jul-24 | | 178 | | | | | | | | 1 |
| DC.S3.5500f | Delivery of Sanitary Fitments | 10 | 0 | 0% | 0% | | | 07-Jul-24 | 16-Jul-24 | 01-Jan-25 | 10-Jan-25 | 07-Jul-24 | 16-Jul-24 | | 178 | | | | | | | 1 | . |
| DC.S3.5500g1 | BS Installation | 28 | 2 | 0% | 0% | | | 17-Jul-24 | 20-Aug-24 | 11-Jan-25 | 18-Feb-25 | 17-Jul-24 | 20-Aug-24 | | 147 | | | | | | | 1 | |
| DC.S3.5500g2 | Electrical Installation | 28 | 2 | 0% | 0% | | | 17-Jul-24 | 20-Aug-24 | | 18-Feb-25 | 17-Jul-24 | 20-Aug-24 | | 147 | | | | | | | 1 | |
| DC.S3.5500g2 | Control and SCADA Installation | 28 | 2 | 0% | 0% | | + | 17-Jul-24 | 20-Aug-24 | | 18-Feb-25 | 17-Jul-24 | 20-Aug-24 | | 147 | 1 | +++ | | | / | | Iiy | <u></u> |
| DC.S3.5500g5 | Completion of all the works in the new control room | 0 | 0 | 0% | 0% | | _ | 11-00-21 | 20-Aug-24 | . 1-00/1-20 | 18-Feb-25 | TT-OUT-ET | 20-Aug-24 | | 182 | | | | | | | | 8 |
| INDOCE COLUMN | COMPANION OF All INDIA ACIDO HOME CONTROLL | | | | | | | | | | | _ | | | | | | | | <i>i</i> 1 1 | - | | Y |
| | Delegation of quinting COADA agricument from quinting and all accounts a convented account | | | | | | | | | | | | | | | | | | | | | | |
| DC.S3.5510a DC.S3.5510b | The state of the s | 7 | 0 | 0% | 0% | | | 21-Aug-24* 29-Aug-24 | 28-Aug-24 | 19-Feb-25 27-Feb-25 | 26-Feb-25 02-Apr-25 | 21-Aug-24 29-Aug-24 | 28-Aug-24 04-Ort-24 | | 147 | | | | | \ | | | <u> </u> |



| y ID | Activity Name | Ori, Dur (d) | TRA (d) | Time Elapsed % | Actual Workdone % | Actual Start | Actual Finish | Early Start | Early Finish | Late Start | Late Finish | Early Start (Rev.17) | Early Finish (Rev.17) | Amended Activities | Total Float | 2021 D J FM 4 M J J A S C | 2022 VDJFM 4 1.1.1 | 2023 A S C N D J F N A J J A S C | 2024 N D J FM 4 M J.J. | A SIGN D.II | 20 FM4MJ |
|----------------------|--|--------------|---------|----------------|----------------------|--------------|---------------|-------------|------------------------|------------|-------------|-------------------------|--------------------------|-----------------------|----------------|--|-----------------------|--|---------------------------|---------------|-----------------------|
| DC.S3.5550a | Procurement of E&M Equipment | 30 | 0 | 0% | 0% | | | 08-May-24 | 06-Jun-24 | 07-Jun-24 | 06-Jul-24 | 01-May-24 | 30-May-24 | | 30 | 1 1 1 1 1 1 1 1 1 1 1 1 | 1 199 | 1-0/141 -0/144 | | 177779 | 1111 |
| DC 83.5550h | Fabrication of E&M Equipment | 180 | 0 | 0% | 0% | | | 07-Jun-24 | 03-Dec-24 | 07-Jul-24 | 02-Jan-25 | 31-May-24 | 26-Nov-24 | | 30 | | | | 1 4 | _ | |
| DC.S3.5550c | Delivery and Installation of E&M Equipment | 30 | 0 | 0% | 0% | | | 04-Dec-24 | 02-Jan-25 | 03-Jan-25 | 01-Feb-25 | 27-Nov-24 | 26-Dec-24 | | 30 | | | | | | |
| DC.S3.5550d | Testing and Commissioning | 30 | 0 | 0% | 0% | | | 02-Feb-25 | 03-Mar-25 | 04-Mar-25 | 02-Apr-25 | 26-Jan-25 | 24-Feb-25 | | 30 | | | | | | |
| | | 30 | U | 27.92% | U76 | 14-Oct-21 | | 14-Oct-21 A | 23-Mar-25 | 23-Nov-22 | | 14-Oct-21 | 23-Mar-25 | | 10 | | | | | | |
| | n and inspection for permanent water supply, power supply and fire services works | 000 | | Er Joe IV | | | | | | 23-NOV-22 | 02-Apr-25 | | | | 10 | | | | | | |
| C.S3.5560 | Preparation and approval of WWO 542 submission (FS system) | 295 | 0 | 100% | 100% | 07-Jan-22 | 28-Sep-22 | 07-Jan-22 A | 28-Sep-22 A | | | 07-Jan-22 | 28-Sep-22 | | | | 1 1 | | | | |
| DC,S3,5670 | Preparation and approval of WWO 542 submission (Plumbing system) | 380 | 0 | 100% | 100% | 14-Oc1-21 | 20-Jul-22 | 14-Oct-21 A | 20-Jul-22 A | | | 14-Oct-21 | 20-Jul-22 | | | | 1 : : | | | | |
| C.S3.5680 | Preparation and approval of WWO 46 submission (FS system) | 120 | 0 | 0.83% | 0% | 29-Sep-22 | | 29-Sep-22 A | 26-Jan-23 | 23-Dec-22 | 20-Apr-23 | 29-Sep-22 | 26-Jan-23 | | 84 | | | | | | |
| DC,S3,5590 | Preparation and approval of WWO 46 submission (Plumbing system) | 120 | 0 | 25% | 0% | 31-Aug-22 | | 31-Aug-22 A | 28-Dec-22 | 21-Jan-23 | 20-Apr-23 | 31-Aug-22 | 28-Dec-22 | | 113 | | | — | | | |
| DC,S3,5600 | WSD Inspection (FS system) | 10 | 0 | 0% | 0% | | | 28-Jan-25* | 06-Feb-25 | 08-Feb-25 | 17-Feb-25 | 28-Jan-25 | 06-Feb-25 | | 11 | 1 | | | | 1 | |
| | WSD Inspection (Plumbing system) | 10 | 0 | 0% | 0% | | | 07-Feb-25 | 16-Feb-25 | 14-Mar-25 | 23-Mar-25 | 07-Feb-25 | 16-Feb-25 | | 35 | | | | | | 1 |
| DC.S3.5630 | Preparation and approval of GBP submission for CCSTW (with Phasing Plan) | 325 | 0 | 91.08% | 60% | 08-Dec-21 | | 08-Dec-21 A | 28-Oct-22 | 23-Nov-22 | 21-Dec-22 | 08-Dec-21 | 28-Oct-22 | | 54 | | 1 1 | | | | - 1 |
| | | | D | 0% | | 00-000-21 | - | | | | | | | | 54 | | Tiii | T | | | |
| DC.S3.5640 | Preparation and approval of DG submission (Upon GBP submission) | 120 | - | | 0% | | | 29-Oct-22 | 25-Feb-23 | 22-Dec-22 | 20-Apr-23 | 29-Oct-22 | 25-Feb-23 | | | | | | | | |
| C,S3,5650 | Preparation and approval of FSl314 for VAC (Upon GBP submission) | 120 | 0 | 0% | 0% | | | 29-Oct-22 | 25-Feb-23 | 22-Dec-22 | 20-Apr-23 | 29-Oct-22 | 25-Feb-23 | | 54 | | | | | | |
| C.S3.5680 | Submission of Form 314, 501 and 501a for OCSTW | 30 | 0 | 0% | 0% | | | 08-Feb-25* | 09-Mar-25 | 18-Feb-25 | 19-Mar-25 | 08-Feb-25 | 09-Mar-25 | | 10 | | | | | - | • |
| C,S3,5692 | FSD Inspection of CCSTW (Final Inspection) | 14 | 0 | 0% | 0% | | | 10-Mar-25 | 23-Mar-25 | 20-Mar-25 | 02-Apr-25 | 10-Mar-25 | 23-Mar-25 | | 10 | | | | | | • |
| C,S3,5700 | DG Inspection by FSD | 10 | 0 | 0% | 0% | | | 14-Mar-25 | 23-Mar-25 | 24-Mar-25 | 02-Apr-25 | 07-Mar-25 | 16-Mar-25 | | 10 | | | , | | | J. |
| CADA System | | | | 24.98% | | 15-Dec-21 | | 15-Dec-21 A | 13-Feb-25 | 10-Oct-22 | 02-Apr-25 | 15-Dec-21 | 13-Feb-25 | | 48 | | + : : | / | + : : | ++ | 7 |
| .S3.5705 | SCADA Equipment Submission and Approval | 228 | 0 | 82.81% | 59% | 15-Dec-21 | | 15-Dec-21 A | 28-Nav-22 | 10-Oct-22 | 08-Dec-22 | 15-Dec-21 | 30-Jul-22 | | 10 | | | <u></u> | | | |
| 0.83.5710 | Procurement | 15 | 0 | 33.33% | 33% | 31-Aug-22 | - | 31-Aug-22 A | 28-Nav-22 | 25-Oct-22 | 23-Dec-22 | 31-Aug-22 | 14-Sep-22 | | 25 | | | | | | |
| | | | - | | | | | | | | | | - | | | | \ | <u> </u> | | | |
| C,S3,5720 | Fabrication | 126 | 0 | 11,9% | 0% | 15-Sep-22 | | 15-Sep-22 A | 18-Jan-23 | 10-Dec-22 | 30-Mar-23 | 15-Sep-22 | 18-Jan-23 | | 71 | | | | | | |
| C.S3.5730 | Delivery | 30 | 0 | 0% | 0% | | | 19-Jan-23 | 17-Feb-23 | 25-Jan-24 | 23-Feb-24 | 19-Jan-23 | 17-Feb-23 | | 371 | | | | | | |
| C,S3,5770 | Preparation and cable Installation works by communication company | 245 | 0 | 48,16% | 25% | 04-Jun-22 | | 04-Jun-22 A | 03-Feb-23 | 22-Feb-23 | 28-Jun-23 | 04-Jun-22 | 03-Feb-23 | | 145 | | - | | | | |
| C.S3.5775b1 | SCADA equipment installation (Phase 1 Sludge Digestor Building Construction) | 30 | 0 | 0% | 0% | | | 27-Feb-23 | 28-Mar-23 | 30-Apr-23 | 29-May-23 | 27-Feb-23 | 28-Mar-23 | | 62 | | |] | | | |
| C.S3.577562 | SCADA equipment installation (Phase 3 PTF Construction) | 30 | 0 | 0% | 0% | | | 09-Dec-23 | 07-Jan-24 | 15-Jan-24 | 13-Feb-24 | 02-Dec-23 | 31-Dec-23 | | 37 | Tiri i | | | 4 | | |
| C.S3.5775b3 | SCADA equipment installation (Phase 1 MBR Construction) | 30 | 0 | 0% | 0% | | | 26-Oct-23 | 24-Nov-23 | 17-Dec-23 | 15-Jan-24 | 21-Oct-23 | 19-Nov-23 | | 52 | | | | • | | |
| .S3.5775b4 | SCADA equipment installation (Phase 5 Effluent Reuse Construction) | 30 | 0 | 0% | 0% | | | 24-Sep-24 | 23-Oct-24 | 28-Dec-24 | 26-Jan-25 | 15-Sep-24 | 14-Oci-24 | | 95 | | | | | <u> </u> | |
| .S3.5775b6 | | 30 | 0 | D% | 0% | - | | | 25-001-24 15-Dec-24 | 04-Dec-24 | 02-Jan-25 | 16-Nov-24 | 15-Dec-24 | | 18 | | | 1 | | T . | |
| | SCADA equipment installation (Phase 5 Sludge Centrifuge Construction) | 00 | | 0.10 | 0.10 | | | 16-Nov-24 | | 0100021 | | | | | | | | | | | |
| .S3.5775b6 | SCADA equipment installation (Phase 5 Sludge Dewatering System) | 30 | 0 | 0% | 0% | | | 13-Oct-24 | 11-Nov-24 | 04-Dec-24 | 02-Jan-25 | 13-Oct-24 | 11-Nov-24 | | 52 | | | | | | |
| .S3.5775b7 | SCADA equipment installation (Section 2 at PSSPS) | 30 | 0 | 0% | 0% | | | 18-Feb-23 | 19-Mar-23 | 16-Feb-25 | 17-Mar-25 | 18-Feb-23 | 19-Mar-23 | | 729 | | | | | | |
| .S3.5775c1 | SCADA System Site Acceptance Test (Phase 1 Sludge Digestor Building Construction) | 30 | 0 | 0% | C% | | | 29-Mar-23 | 27-Apr-23 | 30-May-23 | 28-Jun-23 | 29-Mar-23 | 27-Apr-23 | | 62 | | | | | | |
| C.S3.5775c2 | Disconnecting data link of removed existing equipment from the existing SCADA systm (Phase 2 Site Clears | 7 | 0 | 0% | 0% | | | 19-Jan-23 | 25-Jan-23 | 08-Feb-24 | 14-Feb-24 | 19-Jan-23 | 25-Jan-23 | | 385 | | | | | | |
| C.S3.5775c3 | SCADA System Site Acceptance Test (Phase 3 PTF Construction) | 30 | 0 | 0% | 0% | | | 17-Jan-24 | 15-Feb-24 | 15-Feb-24 | 15-Mar-24 | 10-Jan-24 | 08-Feb-24 | | 29 | | | | | | |
| C.S3.5775c4 | SCADA System Site Acceptance Test (Phase 1 MBR Construction) | 30 | 0 | 0% | 0% | | | 25-Nov-23 | 24-Dec-23 | 16-Jan-24 | 14-Feb-24 | 20-Nov-23 | 19-Dec-23 | | 52 | | | | _ | | |
| D.S3.5775c5 | Disconnecting data link of removed existing equipment from the existing SCADA systm (Phase 4 Demolition | 7 | 0 | D% | 0% | | - | 26-Jun-24 | 02-Jul-24 | 25-Jul-24 | 31-Jul-24 | 19-Jun-24 | 25-Jun-24 | | 29 | | | | | | |
| | | 200 | - | | | | | | | | | | | | | | | | | - I | |
| C.S3.5775c6 | SCADA System Site Acceptance Test (Phase 5 Effluent Reuse Construction) | 30 | 0 | 0% | 0% | | | 24-Oct-24 | 22-Nov-24 | 27-Jan-25 | 25-Feb-25 | 15-Oct-24 | 13-Nov-24 | | 95 | | | 1 | | - I | |
| C.S3.5775c7 | SCADA System Site Acceptance Test (Phase 5 Sludge Centrifuge Construction) | 30 | 0 | 0% | 0% | | | 16-Dec-24 | 14-Jan-25 | 03-Jan-25 | 01-Feb-25 | 16-Dec-24 | 14-Jan-25 | | 18 | | | | | 1 | |
| C.S3.5775c8 | SCADA System Site Acceptance Test (Phase 5 Sludge Dewatering System) | 30 | 0 | 0% | 0% | | | 12-Nov-24 | 11-Dec-24 | 03-Jan-25 | 01-Feb-25 | 12-Nov-24 | 11-Dec-24 | | 52 | | | | | - | |
| C.S3.5775c9 | SCADA System Site Acceptance Test (Section 2 at PSSPS) | 30 | 0 | 0% | 0% | | | 06-Mar-23 | 04-Apr-23 | 04-Mar-25 | 02-Apr-25 | 06-Mar-23 | 04-Apr-23 | | 729 | | | | | | |
| C.S3.5775d1 | SCADA System Commissioning Test (Phase 1 Studge Digestor Building Construction) | 30 | 0 | 0% | 0% | 1 | | 28-Apr-23 | 27-May-23 | 29-Jun-23 | 28-Jul-23 | 28-Apr-23 | 27-May-23 | | 62 | Torrior in | | | | | |
| C.S3.5775d2 | SCADA System Commissioning Test (Phase 3 PTF Construction) | 30 | 0 | 0% | 0% | | | 16-Feb-24 | 16-Mar-24 | 16-Mar-24 | 14-Apr-24 | 09-Feb-24 | 09-Mar-24 | | 29 | | | | _ | | |
| C S3.5775d3 | SCADA System Commissioning Test (Phase 1 MBR Construction) | 30 | 0 | 0% | 0% | | | 25-Dec-23 | 23lan-24 | 15-Feb-24 | 15-Mar-24 | 20-Dec-23 | 18-Jan-24 | | 52 | | | | <u> </u> | | |
| | , | | - | | | | | 20 200 20 | 20 000.2. | 10 1 00 0 | 1011101 21 | | | | | | | | T | 1 | |
| C.S3.5775d4 | SCADA System Commissioning Test (Phase 5 Effluent Reuse Construction) | 30 | 0 | 0% | 0% | | | 21-Dec-24 | 19-Jan-25 | 26-Feb-25 | 27-Mar-25 | 14-Dec-24 | 12-Jan-25 | | 67 | | | | | 1 | |
| C,S3,5775d5 | SCADA System Commissioning Test (Phase 5 Studge Centrifuge Construction) | 30 | 0 | 0% | 0% | | | 15-Jan-25 | 13-Feb-25 | 02-Feb-25 | 03-Mar-25 | 15-Jan-25 | 13-Feb-25 | | 18 | [<u>i</u> ii | | | | | <u> </u> |
| C.S3.5775d6 | SCADA System Commissioning Test (Phase 5 Studge Dewatering System) | 30 | 0 | 0% | 0% | | | 12-Dec-24 | 10-Jan-25 | 02-Feb-25 | 03-Mar-25 | 12-Dec-24 | 10-Jan-25 | | 52 | | | | | 1 | |
| C,S3,5775d7 | SCADA System Commissioning Test (Section 2 at PSSPS) | 30 | 0 | 0% | 0% | | | 06-Mar-23 | 04-Apr-23 | 04-Mar-25 | 02-Apr-25 | 06-Mar-23 | 04-Apr-23 | | 729 | | | | | | |
| C.S3.5780 | SCADA equipment installation at SHWSTW | 30 | 0 | 0% | 0% | | | 13-Oct-24 | 11-Nov-24 | 04-Dec-24 | 02-Jan-25 | 13-Oct-24 | 11-Nov-24 | | 52 | | | | | | |
| V System (CC | TV, ACS, Intercom, Radio) | | | 0% | | | | 25-May-24 | 20-Dec-24 | 06-Aug-24 | 03-Mar-25 | 25-May-24 | 20-Dec-24 | | 73 | | | | | - | |
| 0.83.5735 | Equipment Submission and Approval | 30 | 0 | 0% | 0% | | | 25-May-24* | 23-Jun-24 | 06-Aug-24 | 04-Sep-24 | 25-May-24 | 23-Jun-24 | | 73 | | | | | | |
| .ss.s/ss | | 90 | 0 | | | | | - | | | | | | | | 1 | | | | <u> </u> | |
| | Procurement | | - | 0% | 0% | | | 24-Jun-24 | 21-Sep-24 | 05-Sep-24 | 03-Dec-24 | 24-Jun-24 | 21-Sep-24 | | 73 | | | | | | |
| .S3.5750 | Fabrication | 15 | 0 | 0% | 0% | | | 22-Sep-24 | 06-Oct-24 | 04-Dec-24 | 18-Dec-24 | 22-Sep-24 | 06-Oct-24 | | 73 | | | | | 1 | |
| ,S3,5760 | Delivery | 15 | 0 | 0% | 0% | | | 07-Oct-24 | 21-Oct-24 | 19-Dec-24 | 02-Jan-25 | 07-Oct-24 | 21-Oct-24 | | 73 | | | | | • | |
| C,S3,6790 | E&M Installation Works | 60 | 0 | 0% | 0% | | | 22-Oct-24 | 20-Dec-24 | 03-Jan-25 | 03-Mar-25 | 22-Oct-24 | 20-Dec-24 | | 73 | | | | | _ | |
| & M Manual & | Training | | | 0% | | | | 01-Aug-24 | 12-Dec-24 | 20-Nov-24 | 02-Apr-25 | 01-Aug-24 | 12-Dec-24 | | 111 | | | | | - | |
| .S3.5765a | Submission of draft C&M Manual | 80 | 0 | 0% | 0% | | | 01-Aug-24* | 29-Sep-24 | 20-Nov-24 | 18-Jan-25 | 01-Aug-24 | 29-Sep-24 | | 111 | 1 | | | | <u></u> | |
| S3 5765b | Training to Client's Staffs | 14 | 0 | 0% | 0% | | - | 30-Sep-24 | 13-Oct-24 | 19-Jan-25 | 01-Feb-25 | 30-Sep-24 | 13-Oct-24 | | 111 | | | | | i | |
| 0.83.5765c | Submission of interim 08M Manual | 60 | 0 | 0% | 0% | | | | | | 02-Apr-25 | | | | | | | | | - I | |
| | | 00 | U | | U76 | 40 1 00 | | 14-0ct-24 | 12-Dec-24* | 02-Feb-25 | 10.4.00 | 14-Oct-24 | 12-Dec-24 | | 111 | | | | | | |
| | B DUE TO CEs | | | 80,44% | | 18-Jan-22 | | 18-Jan-22 A | 30-Nov-22 | 14-Oct-22 | 15-Dec-22 | 18-Jan-22 | 24-Oct-22 | | 15 | | | | | | |
| S3,6010 | CE-015, Abandonement Works for Existing 900mm Diameter Pipe Connection to Manhole SHM7003180 ar | 6 | 1 | 100% | 100% | 13-May-22 | 20-May-22 | 13-May-22 A | 20-May-22 A | | | 13-May-22 | 20-May-22 | | | 1 | | 1 | | | |
| .S3.6020 | CE-024, Pilot Trial Leak Detection for Existing Manholes in Cheung Chau | 145 | 4 | 96.39% | 95% | 17-Mar-22 | | 17-Mar-22 A | 08-Oct-22* | 25-Oct-22 | 31-Oct-22 | 17-Mar-22 | 16-Sep-22 | | 19 | | - | 7 | | | |
| .S3.6030 | CE-033, Repair Works of Existing Sludge Ramp | 220 | 6 | 80.54% | 80% | 18-Jan-22 | | 18-Jan-22 A | 30-Nov-22* | 18-Oct-22 | 15-Dec-22 | 18-Jan-22 | 24-Oc1-22 | | 13 | | | | | | |
| .S3.6040 | CE-044, Point Cloud Survey at Cheung Chau | 72 | 3 | 100% | 100% | 15-Mar-22 | 17-Jun-22 | 15-Mar-22 A | 17-Jun-22 A | | | 15-Mar-22 | 17-Jun-22 | | | | - | V I I I | | | |
| | | 155 | 2 | 74 19% | 65% | 16-May-22 | HEVUIPEE | 16-May-22 A | 17-Jun-227 | 14-Oct-22 | 30-Nov-22 | 16-May-22 | 03-Sep-22 | | 10 | | | 4 | | | |
| | CE-050, Underground Utilities Survey and Water Intrusion Identification in Cheung Chau | 100 | - 4 | 74.1576 | | i D=Way=ZZ | | TO-Way-ZZ A | 17=NOV=22* | I#UCHZZ | JU-INDV-ZZ | | 03-36P-ZZ | | IU | 1 1 1 1 | 1 1 7 | T 1 1 1 1 1 1 1 1 1 | 1 : : | : I | |
| :S3.6050 :S3.6060 | CE-065, Additional Drillholes for Preliminary Treatment Facilities in CCSTW (Total 15 nos.) | 77 | 0 | 100% | 100% | 31-Jul-22 | 30-Aug-22 | 31-Jul-22 A | 30-Aug-22 A | | | 31-Jul-22 | 14-Oct-22 | | | | | | 2 2 | | |



| tivity ID | Activity Name | Ori, Dur (d) | TRA (d) | Time Elapsed 9 | Actual Actual Start | Actual Finish | Early Start | Early Finish Late Start | Late Finish | Early Start | Early Finish | | Total | | 2021 | | 20.1 | 22 | - | 2023 | | 2024 | | - 2 |
|---------------|---|--------------|---------|----------------|---------------------|---------------|-------------|-------------------------|-------------|-------------|--------------|------------|-------|--------|------|-------|------|------|-------|-------|---------|--------|--------|------|
| | | | | | Workdone % | | | | | (Rev.17) | | Activities | | DJFMAN | JJAS | QNDJF | MAJ | JASO | NDJEW | AA JJ | ASONDJF | MAMJJA | ASOND. | FMAM |
| 30-month Pe | formance Verification (At least 18 months End of S4) | | | 0% | | | 13-Jan-25 | 09-Oct-25 07-Apr-25 | 01-Jan-26 | 06-Jan-25 | 02-Oct-25 | | 84 | il i | | . | | | | | | | | |
| DC,S4,1040 | 30-month performance verification (At least 18 months before End of S4) (Period from 9th to 18th month) | 270 | 0 | 0% | 0% | | 13-Jan-25 | 09-Oct-25 07-Apr-25 | 01-Jan-26 | 06-Jan-25 | 02-Oct-25 | * | 84 | il i | | : | | | 1 | | | | | _ |
| External Arch | itectrual | | | 0% | | | 03-Apr-25 | 30-Jul-25 06-Sep-25 | 02-Jan-26 | 08-Mar-25 | 14-Jul-25 | | 156 | ıl I | | : | | | - | | | | | _ |
| DC.S4.1010 | External Architectural at MBR Treatment Facilities | 90 | 6 | 0% | 0% | | 03-Apr-25 | 30-Jul-25 06-Sep-25 | 02-Jan-26 | 08-Mar-25 | 14-Jul-25 | | 128 | ıl i | | : | | : (| 1 | | | | | + |
| DC.S4.1100 | External Architectural at Sludge Digestor Building | 60 | 4 | 0% | 0% | | 03-Apr-25 | 21-Jun-25 16-Oct-25 | 02-Jan-26 | | | | 160 | ıl I | | . | | 1. | 1 | | | | | _ |
| DC,S4,1110 | External Architectural at Sludge Centrifuge House | 60 | 4 | 0% | 0% | | 03-Apr-25 | 21-Jun-25 16-Oct-25 | 02-Jan-26 | | | | 160 | | | | | | | 1 | | | | |
| DC.S4.1120 | External Architectural at Preliminary Treatment Facilities | 90 | 6 | 0% | 0% | | 03-Apr-25 | 30-Jul-25 06-Sep-25 | 02-Jan-26 | | | | 128 | ıl | | . | | | 1 | | | | | _ |
| DC.S4.1130 | External Architectural at Effluent Reuse Building | 30 | 2 | 0% | 0% | | 03-Apr-25 | 14-May-25 24-Nov-25 | 02-Jan-26 | | | | 192 | ıl İ | | | | | | | | | | - |
| DC.S4.1140 | External Architectural at FS Pumproom and Pumproom | 30 | 2 | 0% | 0% | | 03-Apr-25 | 14-May-25 24-Nov-25 | 02-Jan-26 | | | | 192 | ıl I | | : | | | 1 | | | | | - |
| DC.S4.1150 | External Architectural at Dangerous Good House | 30 | 2 | 0% | 0% | | 03-Apr-25 | 14-May-25 24-Nov-25 | 02-Jan-26 | | | | 192 | ıl i | | : | | | 1 | | | | | - |
| DC.S4.1160 | External Architectural at Sludge Dewatering House | 60 | 4 | 0% | 0% | | 03-Apr-25 | 21-Jun-25 16-Oct-25 | 02-Jan-26 | | | | 160 | | 1 | | | | | | | | | _ |
| DC.S4.1170 | External Architectural at Administration Building | 40 | 2 | 0% | 0% | | 03-Apr-25 | 26-May-25 12-Nov-25 | 02-Jan-26 | | | | 182 | il i | | | | | 1 | | | | | - |
| Landscaping | Works & Irrigation System | | | 0% | | | 03-Apr-25 | 04-Oct-25 28-Aug-25 | 17-Mar-26 | 03-Apr-25 | 08-Aug-25 | | 164 | il I | | : | | - / | - - | | | | | • |
| DC:S4.1020 | The site-wide landscaping works | 97 | 7 | 0% | 0% | | 04-Jun-25 | 04-Oct-25 10-Nov-25 | 17-Mar-26 | 03-Apr-25 | 08-Aug-25 | | 132 | ıl İ | | . | | 1 | - | | | | | _ |
| DC.S4.1080 | Installation of Irrigation System | 97 | 7 | 0% | 0% | | 03-Apr-25 | 08-Aug-25 28-Aug-25 | 02-Jan-26 | | | | 120 | ıl i | | ; | | · N | 1 | | | | | - |
| Construction | of New Security Fence | | | 0% | | | 03-Apr-25 | 22-Aug-25 14-Aug-25 | 02-Jan-26 | 03-Apr-25 | 08-Aug-25 | | 108 | | 1 1 | | | 1 | | 1 1 | | 1 1 | | **** |
| DC.S4.1030 | Demolition of Existing Boundary Wall | 60 | 4 | 0% | 0% | | 03-Apr-25 | 21-Jun-25 14-Aug-25 | 30-Oct-25 | 03-Apr-25 | 08-Aug-25 | | 108 | ıl I | | : | | () | از | | | | | _ |
| DC.S4.1060 | Construction of New Security Fence R.C. Structures | 60 | 4 | 0% | 0% | | 17-May-25 | 01-Aug-25 23-Sep-25 | 09-Dec-25 | | | | 108 | il E | | . | | · / | 1 | | | | | |
| DC.S4.1070 | Installation of New Security Fence Metail Works | 45 | 3 | 0% | 0% | | 27-Jun-25 | 22-Aug-25 05-Nov-25 | 02-Jan-26 | | | | 108 | ıl i | | | | | | | | | | |
| Completion of | f Section 4 (Working Day) | | | 0% | | | 10-Sep-25 | 10-Oct-25 03-Dec-25 | 02-Jan-26 | 02-Oct-25 | 02-Oct-25 | | 84 | il l | | . | | | - | | | | | |
| DC.S4.1041 | Pre-handover meeting with DSD/ST2 | 1 | 0 | 0% | 0% | | 10-Sep-25 | 10-Sep-25 03-Dec-25 | 03-Dec-25 | | | * | 84 | / | 1 | : | | | | 1 | | 11111 | | |
| DC.S4.1042 | Handover meeting with DSD/ST2 | 1 | 0 | 0% | 0% | | 10-Oct-25 | 10-Oct-25 02-Jan-26 | 02-Jan-26 | | | | 84 | ıl I | | . | | | 1 | | | | | |
| DC.S4.1050 | Completion of Section 4 | 0 | 0 | 0% | 0% | | | 10-Oct-25* | 02-Jan-26 | | 02-Oct-25 | | 84 | il l | | : | | : [| | | | | | |
| 30-month per | formance verification (remaining 12 months after S4) | | | 0% | | | 10-0cl-25 | 01-Jan-27 02-Jan-26 | 01-Jan-27 | 03-OcI-25 | 01-Jan-27 | | 0 | il l | | : | | | | | | | | |
| DC,PV,1010 | 30-month performance vertification (remaining 12 months after S4) (Period from 18th to 30th month) | 365 | 0 | 0% | 0% | | 10-Oc1-25 | 09-Oct-26 02-Jan-26 | 01-Jan-27 | 03-Oct-25 | 02-Oct-26 | • | 84 | il l | | . | | | | | | | | |
| DC.PV.1020 | Date of 12 months after S4 | 0 | 0 | 0% | 0% | | | 01-Jan-27* | 01-Jan-27 | | 01-Jan-27 | | 0 | /l | 1111 | | 1111 | | | 1 | | 7777 | | |
| DC.S3.5765d10 | Submission of final O&M Manual | 60 | 0 | D% | D% | | 13-Dec-25 | 10-Feb-26 02-Nov-26 | 31-Dec-26 | 13-Dec-25 | 10-Feb-26 | | 324 | il I | | . | | | | | | | | |

APPENDIX C Calibration Certificates (Air Monitoring)









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

Verification Test Date: 27-Mar-22 to 3-Apr-22

Next Verification Test Date:4-Apr-23Unit-under-Test- Model No.Sibata LD-5RUnit-under-Test Serial No.761173Our Report Refrence No.RPT-22-HVS-0011

| Standard Equipment Information | | | |
|--------------------------------|-----|--------------------|------------------------|
| Verification Equipment Type | | Tisch's TSP HVS | Tish HVS Calibrator |
| Standard Equipment Model No. | | TE-5170X | TE-5025A |
| Equipment serial no. | MFC | 1049 | 3465 |
| Last Calibration Date | | 2-Jun-22 | 28-Jun-22 |
| Next Calibration Date | | 1-Sep-22 | 29-Jun-23 |

| Verification | Date | | Time | | K-Factor | Counts/ Minute (R) | Total Counts | TSP Sample | Dust Concentration (ug/m3), (C) |
|--------------|-----------|------------|----------|-----------------------------|---------------------|-----------------------|-----------------|------------|---------------------------------------|
| Test No. | | Start-time | End-time | Elapsed Time (in min) | K-Factor (K=C/R) | x-axis | (TC) | ID No. | y axis |
| 1 | 10/7/2022 | 5653.00 | 5656.00 | 180.00 | 0.00012 | 50 | 9000 | R221113/1 | 6 |
| 2 | 10/7/2022 | 5656.00 | 5659.00 | 180.00 | 0.00033 | 58 | 7980 | R221113/2 | 15 |
| 3 | 10/7/2022 | 5659.00 | 5663.00 | 240.00 | 0.00008 | 44 | 13920 | R221113/3 | 5 |
| 4 | 17/7/2022 | 5715.00 | 5719.00 | 240.00 | 0.00050 | 67 | 15200 | R221114/1 | 32 |
| 5 | 17/7/2022 | 5719.00 | 5722.00 | 180.00 | 0.00047 | 63 | 11820 | R221114/2 | 31 |
| 6 | 17/7/2022 | 5722.00 | 5725.00 | 180.00 | 0.00051 | 66 | 12000 | R221114/3 | 34 |
| | • | | | · | 0.00033 | | | | • |

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

By Linear Regression of y on x:

slope, mh= 1.4270 intercept,ch= -62.5718 *Correlation Coefficient,R= 0.9594

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

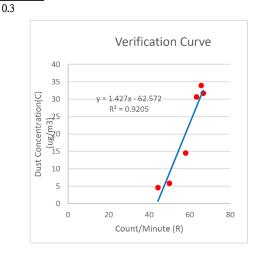
* If the Correlation Coefficient, R is <0.5. Checking and Re-

verification are required.

Verified By:

Field Supervisor

Date: 16-08-2022









Tel. : (852) 2698 6855

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

Verification Test Date: 9-Oct-22 to 16-Oct-22

Next Verification Test Date: 17-Oct-23
Unit-under-Test- Model No. Sibata LD-5R
Unit-under-Test Serial No. 992821
Our Report Refrence No. RPT-22-HVS-0013

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

| Verification | Date | | Time | | K-Factor | Counts/ Minute (R) | Total Counts | TSP Sample | Dust Concentration (ug/m3), (C) |
|--------------|------------|------------|----------|-----------------------------|---------------------|-----------------------|-----------------|------------|---------------------------------------|
| Test No. | | Start-time | End-time | Elapsed Time (in min) | K-Factor (K=C/R) | x-axis | (TC) | ID No. | y axis |
| 1 | 9/10/2022 | 6210.34 | 6213.34 | 180.00 | 0.00072 | 47.67 | 8580 | R221670/1 | 34 |
| 2 | 9/10/2022 | 6213.34 | 6216.36 | 181.20 | 0.00093 | 71.00 | 12865 | R221670/2 | 66 |
| 3 | 9/10/2022 | 6216.36 | 6221.78 | 325.20 | 0.00115 | 89.33 | 29051 | R221670/3 | 103 |
| 4 | 16/10/2022 | 6249.91 | 6252.92 | 180.60 | 0.00108 | 50.00 | 9030 | R221671/1 | 54 |
| 5 | 16/10/2022 | 6252.92 | 6255.92 | 180.00 | 0.00110 | 80.33 | 14460 | R221671/2 | 88 |
| 6 | 16/10/2022 | 6255.92 | 6261.94 | 361.20 | 0.00109 | 75.67 | 27331 | R221671/3 | 83 |
| | | · | | | 0.00101 | | | | |

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

1.0

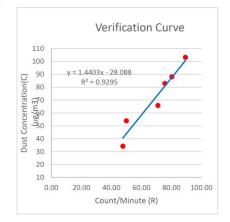
By Linear Regression of y on x:

slope, mh= 1.4403 intercept,ch= -28.0877 *Correlation Coefficient,R= 0.9641

Verification Test Result: Strong Correlation, Results were accepted.

 $\ensuremath{^*}$ If the Correlation Coefficient, R is <0.5. Checking and Reverification are required.

Verified By: ______ Date: 1



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

Verification Test Date: 9-Oct-22 to 16-Oct-22

Next Verification Test Date:17-Oct-23Unit-under-Test- Model No.Sibata LD-5RUnit-under-Test Serial No.851820

Our Report Refrence No. RPT-22-HVS-0019

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

| Verification | Date | | Time | | K-Factor | Counts/ Minute (R) | Total Counts | TSP Sample | Dust Concentration (ug/m3), (C) |
|--------------|------------|------------|----------|-----------------------------|---------------------|-----------------------|-----------------|------------|---------------------------------------|
| Test No. | | Start-time | End-time | Elapsed Time (in min) | K-Factor (K=C/R) | x-axis | (TC) | ID No. | y axis |
| 1 | 9/10/2022 | 6210.34 | 6213.34 | 180.00 | 0.00122 | 28.00 | 5040 | R221670/1 | 34 |
| 2 | 9/10/2022 | 6213.34 | 6216.36 | 181.20 | 0.00103 | 64.00 | 11597 | R221670/2 | 66 |
| 3 | 9/10/2022 | 6216.36 | 6221.78 | 325.20 | 0.00120 | 85.67 | 27859 | R221670/3 | 103 |
| 4 | 16/10/2022 | 6249.91 | 6252.92 | 180.60 | 0.00102 | 53.00 | 9571.8 | R221671/1 | 54 |
| 5 | 16/10/2022 | 6252.92 | 6255.92 | 180.00 | 0.00114 | 77.33 | 13920 | R221671/2 | 88 |
| 6 | 16/10/2022 | 6255.92 | 6261.94 | 361.20 | 0.00116 | 71.33 | 25766 | R221671/3 | 83 |
| | | | | | 0.00112 | | | | |

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

By Linear Regression of y on x:

slope, mh= 1.1948 intercept,ch= -4.2432 *Correlation Coefficient,R= 0.9806

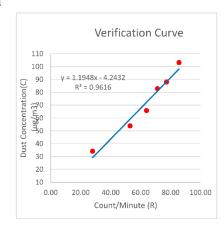
Verification Test Result: Strong Correlation, Results were accepted.

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

Verified By: _

Field Supervisor

Date: 19-10-2022











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

Verification Test Date: 27-Mar-22 to 3-Apr-22

 Next Verification Test Date:
 4-Apr-23

 Unit-under-Test- Model No.
 Sibata LD-5R

 Unit-under-Test Serial No.
 0Z4544

 Our Report Refrence No.
 RPT-22-HVS-0005

| Standard Equipment Information | | | |
|--------------------------------|-----|-------------|------------|
| Verification Equipment Type | | Tisch's TSP | Tish HVS |
| verification equipment Type | | HVS | Calibrator |
| Standard Equipment Model No. | | TE-5170X | TE-5028A |
| Equipment serial no. | MFC | 1049 | 3702 |
| Last Calibration Date | | 22-Mar-22 | 3-Aug-21 |
| Next Calibration Date | | 21-Jun-22 | 4-Aug-22 |

| Verification | Date | | Time | | K-Factor | Counts/ Minute (R) | Total Counts | TSP Sample | Dust Concentration (ug/m3), (C) |
|--------------|-----------|------------|----------|-----------------------------|------------------|-----------------------|-----------------|------------|---------------------------------------|
| Test No. | | Start-time | End-time | Elapsed Time (in min) | K-Factor (K=C/R) | x-axis | (TC) | ID No. | y axis |
| 1 | 27/3/2022 | 4945.81 | 4949.09 | 196.80 | 0.00077 | 65 | 12858 | R220486/1 | 50 |
| 2 | 27/3/2022 | 4949.09 | 4952.83 | 224.40 | 0.00077 | 69 | 15558 | R220486/2 | 53 |
| 3 | 27/3/2022 | 4952.83 | 4956.42 | 215.40 | 0.00076 | 62 | 13355 | R220486/3 | 47 |
| 4 | 3/4/2022 | 4991.80 | 4995.40 | 216.00 | 0.00046 | 49 | 10656 | R220538/1 | 22 |
| 5 | 3/4/2022 | 4995.40 | 4998.79 | 203.40 | 0.00045 | 52 | 10645 | R220538/2 | 23 |
| 6 | 3/4/2022 | 4998.79 | 5002.26 | 208.20 | 0.00064 | 58 | 12006 | R220538/3 | 37 |
| | | | | | 0.00064 | | | | |

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

0.6

By Linear Regression of y on \boldsymbol{x} :

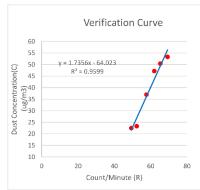
| slope, mh= | 1.7356 | intercept,ch= | -64.0225 *Correlation Coefficient,R= | 0.9797

Verification Test Result: Strong Correlation, Results were accepted.

 $\mbox{\ensuremath{^{\ast}}}$ If the Correlation Coefficient, R is <0.5. Checking and Reverification are required.

Verified By:

Date: 14-04-2022





RECALIBRATION
DUE DATE:

June 28, 2023

Certificate of Calibration

 Calibration Certification Information

 Cal. Date:
 June 28, 2022
 Rootsmeter S/N: 438320
 Ta: 296
 °K

 Operator:
 Jim Tisch
 Pa: 755.1
 mm Hg

 Calibration Model #:
 TE-5025A
 Calibrator S/N: 3465

| Run | Vol. Init (m3) | Vol. Final (m3) | ΔVol. (m3) | ΔTime (min) | ΔP (mm Hg) | ΔH (in H2O) |
|-----|-------------------|--------------------|---------------|----------------|---------------|----------------|
| 1 | 1 | 2 | 1 | 1.4290 | 3.2 | 2.00 |
| 2 | 3 | 4 | 1 | 1.0130 | 6.4 | 4.00 |
| 3 | 5 | 6 | 1 | 0.9050 | 7.9 | 5.00 |
| 4 | 7 | 8 | 1 | 0.8590 | 8.8 | 5.50 |
| 5 | 9 | 10 | 1 | 0.7110 | 12.8 | 8.00 |

| | Data Tabulation | | | | | | | |
|--------|-----------------|---|--------|----------|------------|--|--|--|
| Vstd | Qstd | $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ | | Qa | √∆H(Ta/Pa) | | | |
| (m3) | (x-axis) | (y-axis) | Va | (x-axis) | (y-axis) | | | |
| 0.9961 | 0.6970 | 1.4144 | 0.9958 | 0.6968 | 0.8854 | | | |
| 0.9918 | 0.9791 | 2.0003 | 0.9915 | 0.9788 | 1.2522 | | | |
| 0.9899 | 1.0938 | 2.2364 | 0.9895 | 1.0934 | 1.4000 | | | |
| 0.9887 | 1.1509 | 2.3456 | 0.9883 | 1.1506 | 1.4683 | | | |
| 0.9834 | 1.3831 | 2.8289 | 0.9830 | 1.3826 | 1.7708 | | | |
| | m= | 2.05924 | | m= | 1.28946 | | | |
| QSTD | b= | -0.01929 | QA | b= | -0.01207 | | | |
| | r= | 0.99998 | - | r= | 0.99998 | | | |

| | Calculation | ıs | |
|-------|--|--------------|---|
| Vstd= | ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta) | Va= | ΔVol((Pa-ΔP)/Pa) |
| Qstd= | Vstd/ΔTime | Qa= Va/ΔTime | |
| | For subsequent flow rat | e calculatio | ns: |
| Qstd= | $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$ | Qa= | $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b$ |

| | Standard Conditions |
|----------------|------------------------------|
| Tstd: | 298.15 °K |
| Pstd: | 760 mm Hg |
| | Key |
| ΔH: calibrator | manometer reading (in H2O) |
| ΔP: rootsmete | er manometer reading (mm Hg) |
| Ta: actual abs | olute temperature (°K) |
| Pa: actual bar | ometric pressure (mm Hg) |
| b: intercept | |
| m: slone | |

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

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InnoTech Instrumentation Co. Ltd.

創新科儀有限公司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

| Location: | The admin building inside the construction site | Site ID: | Ala | Date: | 02-Dec-2022 |
|------------|---|----------|----------|-----------|-------------|
| Serial No: | 1048 | Model: | TE-5170X | Operator: | Kate Wong |

Ambient Condition

| Corrected Pressure (mm Hg): | 765.0 | Temperature (deg K): | 293.4 |
|-----------------------------|-------|----------------------|-------|

Calibration Orifice

| Model: | TE-5025A | Slope: | 1.28946 |
|-----------------------|-----------|--------------|----------|
| Serial No.: | 3465 | Intercept: | -0.01207 |
| Calibration Due Date: | 28-Jun-23 | Corr. Coeff: | 0.99998 |

Calibration Data

| Plate or | In,H2O | Qa, X-Axis | I, CFM | IC, Y-Axis |
|----------|--------|------------|---------|-------------|
| Test # | (in) | (m3/min) | (chart) | (corrected) |
| 1 | 0.10 | 0.257 | 24.0 | 24.27 |
| 2 | 0.30 | 0.439 | 27.0 | 27.30 |
| 3 | 0.50 | 0.564 | 30.0 | 30.34 |
| 4 | 0.60 | 0.617 | 32.0 | 32.36 |
| 5 | 0.80 | 0.711 | 34.0 | 34.38 |

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 22.7190 b= 17.9713 Corr. Coeff= 0.9921

Sampler set point(SSP) 45 CFM

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate IC = corrected chart response I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K Pstd = 760 mm Hg

For subsequent calculation of sampler flow: (1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]

Checked by:

Calculations m = sampler slope

b = sampler intercept
l = chart response
Tav = average temperature
Pav = average pressure

02-Dec-2022

Date:

InnoTech Instrumentation Co. Ltd.

創新科儀有限公司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

| Site Information | | | | | | |
|------------------|---|----------|----------|-----------|-------------|--|
| ocation: | The existing outfall pumping station inside the construction site | Site ID: | A2a | Date: | 02-Dec-2022 | |
| erial No: | 1085 | Model: | TE-5170X | Operator: | Kate Wong | |

| Ambient Condition | | | | | |
|-----------------------------|-------|----------------------|-------|--|--|
| Corrected Pressure (mm Hg): | 765.0 | Temperature (deg K): | 293.4 | | |

| Calibration Orifice | | | | | | |
|-----------------------|-----------|--------------|----------|--|--|--|
| Model: | TE-5025A | Slope: | 1.28946 | | | |
| Serial No.: | 3465 | Intercept: | -0.01207 | | | |
| Calibration Due Date: | 28-Jun-23 | Corr. Coeff: | 0.99998 | | | |

| | Calibration Data | | | | | | | | |
|----------|------------------|------------|---------|-------------|--|--|--|--|--|
| Plate or | In,H2O | Qa, X-Axis | I, CFM | IC, Y-Axis | | | | | |
| Test # | (in) | (m3/min) | (chart) | (corrected) | | | | | |
| 1 | 0.10 | 0.257 | 28.0 | 28.31 | | | | | |
| 2 | 0.30 | 0.439 | 30.0 | 30.34 | | | | | |
| 3 | 0.60 | 0.617 | 31.0 | 31.35 | | | | | |
| 4 | 0.80 | 0.711 | 34.0 | 34.38 | | | | | |
| 5 | 1.00 | 0.794 | 37.0 | 37.41 | | | | | |

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

| m= | 15.5180 | b= | 23.6143 | Corr. Coeff= | 0.9378 |
|------------------------------------|---|----|---|--------------|--------|
| Sam | npler set point(SSP) | 42 | CFM | | |
| Qstd = 1/m[Sqi IC = I[Sqrt(Pa/F | rt(H2O(Pa/Pstd)(Tstd/Ta))-b] rstd)(Tstd/Ta)] | | Calculations m = sampler slope b = sampler intercept l = chart response | | |

Tav = average temperature

Pav = average pressure

Qstd = standard flow rate IC = corrected chart response I = actual chart response

I = actual chart responsem = calibrator Qstd slopeb = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K) Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K Pstd = 760 mm Hg

For subsequent calculation of sampler flow: (1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]

| Checked by: | luly | 7 | Date: | 02-Dec-2022 |
|-------------|------|---|-------|-------------|
| | | | | |

APPENDIX D Monitoring Data (Air)

Location: A1a

Monitoring Period: December 2022

Parameter: TSP 1-hour

Major Dust Source Construction activities and daily operation of the sewerage

treatment plant

Other Factors NA

| Date | Weather | Start Time | 1st Hour (μg/m³) | 2 nd Hour (μg/m³) | 3 rd Hour (µg/m³) |
|------------|---------|------------|---------------------|---------------------------------|---------------------------------|
| 2022/12/5 | Sunny | 13:38 | 85 | 76 | 85 |
| 2022/12/12 | Sunny | 13:27 | 90 | 81 | 83 |
| 2022/12/19 | Sunny | 13:26 | 74 | 69 | 75 |
| 2022/12/22 | Sunny | 14:45 | 65 | 76 | 79 |
| 2022/12/29 | Fine | 13:47 | 70 | 74 | 81 |
| | | Range | | 65 - 90 | |
| | | Average | | 77.5 | |

Location: A2a

Monitoring Period: December 2022

Parameter: TSP 1-hour

Major Dust Source Construction activities and daily operation of the sewerage

treatment plant

Other Factors NA

| Date | Weather | Start Time | 1 st Hour (μg/m³) | 2 nd Hour (μg/m³) | 3 rd Hour (μg/m³) |
|------------|---------|------------|---------------------------------|---------------------------------|---------------------------------|
| 2022/12/5 | Sunny | 13:27 | 66 | 65 | 69 |
| 2022/12/12 | Sunny | 13:16 | 74 | 76 | 71 |
| 2022/12/19 | Sunny | 13:17 | 61 | 69 | 73 |
| 2022/12/22 | Sunny | 14:27 | 75 | 77 | 62 |
| 2022/12/29 | Fine | 13:59 | 64 | 79 | 77 |
| | | Range | | 61 - 79 | |
| | | Average | | 72.3 | |

Figure D.1 Measured 1-Hour TSP at the admin building inside the construction site (A1a)

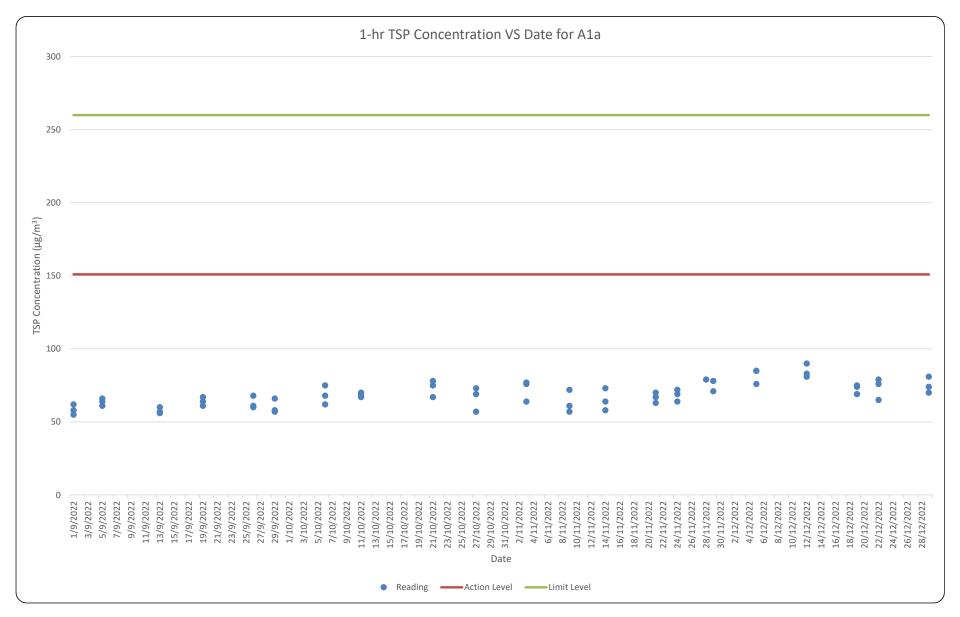
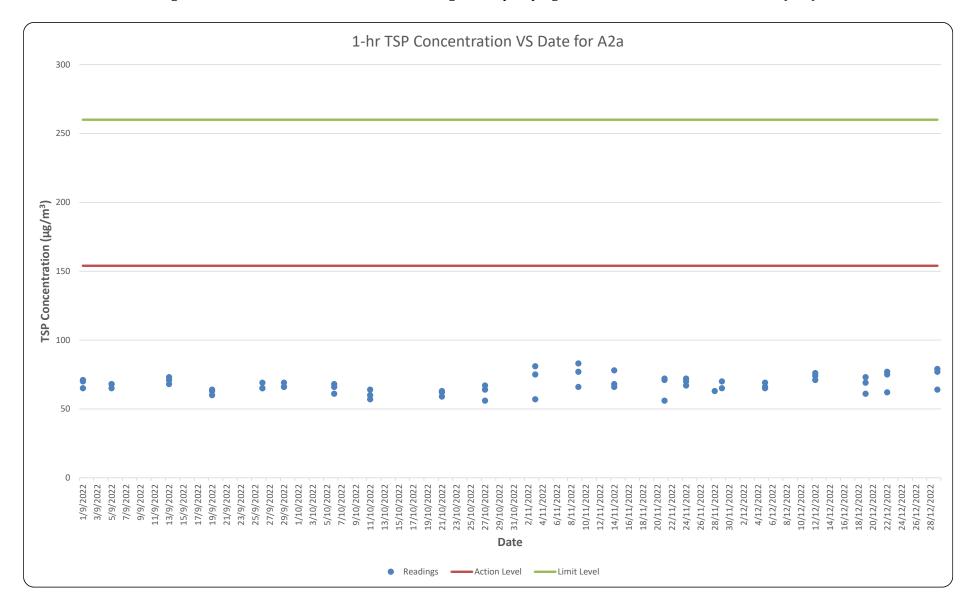


Figure D.2 Measured 1-Hour TSP at the existing outfall pumping station inside the construction site (A2a)



Location: A1a

Parameter: TSP 24-hour

Major dust source Construction activities and daily operation of the sewerage treatment plant

Other Factors NA

| Start Date | Avg Air Temp | Avg Atmospheric Pressure | Weather Condition | Elapse Time | | Sampling Time | Flow Rate | Standard Air Volume | Filter Weigh | nt (g) | Particulate weight | Conc. |
|------------|-----------------|--------------------------------|----------------------|------------------|----------------|------------------|-----------|---------------------------|--------------|--------|-----------------------|----------|
| | (°C) | (mm Hg) | | Initial (min) | Final (min) | Actual (min) | (m³/min) | (m³) | Initial | Final | (g) | (μg/m³) |
| 05/12/2022 | 17.5 | 1019.8 | Sunny | 238283.0 | 239802.0 | 1519.0 | 1.09 | 1661 | 2.7599 | 2.9566 | 0.1967 | 118 |
| 12/12/2022 | 15.4 | 1018.9 | Cloudy | 239802.0 | 241304.0 | 1502.0 | 1.05 | 1583 | 2.7864 | 2.9595 | 0.1731 | 109 |
| 19/12/2022 | 15.3 | 1020.0 | Sunny | 241304.0 | 242821.0 | 1517.0 | 1.06 | 1602 | 2.7875 | 2.9015 | 0.1140 | 71 |
| 22/12/2022 | 17.2 | 1017.8 | Sunny | 242821.0 | 244287.0 | 1466.0 | 1.05 | 1533 | 2.7749 | 2.9798 | 0.2049 | 134 |
| 29/12/2022 | 15.9 | 1024.7 | Fine | 244287.0 | 245742.0 | 1455.0 | 1.11 | 1612 | 2.6303 | 2.8698 | 0.2395 | 149 |
| | · | | | _ | _ | | | | _ | | Average | 96173116 |

Average 96173116
Range 71 - 149

Location: A2a

Parameter: TSP 24-hour

Major Site Activities Construction activities and daily operation of the sewerage treatment plant

Major dust source Routine operation of the Sewage Treatment Plant

Other Factors NA

| Start Date | Avg Air Temp | Avg Atmospheric Pressure | Weather Condition | Elapse Time | | Sampling Time | Flow Rate | Standard Air Volume | Filter Weigh | nt (g) | Particulate weight | Conc. |
|------------|-----------------|--------------------------------|----------------------|------------------|----------------|------------------|-----------|---------------------------|--------------|--------|-----------------------|----------|
| | (°C) | (mm Hg) | | Initial (min) | Final (min) | Actual (min) | (m³/min) | (m³) | Initial | Final | (g) | (μg/m³) |
| 05/12/2022 | 17.5 | 1019.8 | Sunny | 457198.0 | 458716.0 | 1518.00 | 1.11 | 1678 | 2.755 | 2.8202 | 0.0652 | 39 |
| 12/12/2022 | 15.4 | 1018.9 | Cloudy | 458716.0 | 460214.0 | 1498.00 | 1.11 | 1668 | 2.7907 | 2.9579 | 0.1672 | 100 |
| 19/12/2022 | 15.3 | 1020.0 | Sunny | 460214.0 | 461681.0 | 1467.00 | 1.12 | 1638 | 2.7787 | 2.8935 | 0.1148 | 70 |
| 22/12/2022 | 17.2 | 1017.8 | Sunny | 461681.0 | 463148.0 | 1467.00 | 1.10 | 1617 | 2.7895 | 3.0078 | 0.2183 | 135 |
| 29/12/2022 | 15.9 | 1024.7 | Fine | 463148.0 | 464606.0 | 1458.00 | 1.16 | 1689 | 2.6373 | 2.8714 | 0.2341 | 139 |
| | | | | | | | | | | | Average | 97 |
| | | | | | | | | | | | Range | 39 - 139 |

Figure D.3 Measured 24-Hour TSP at the admin building inside the construction site (A1a)

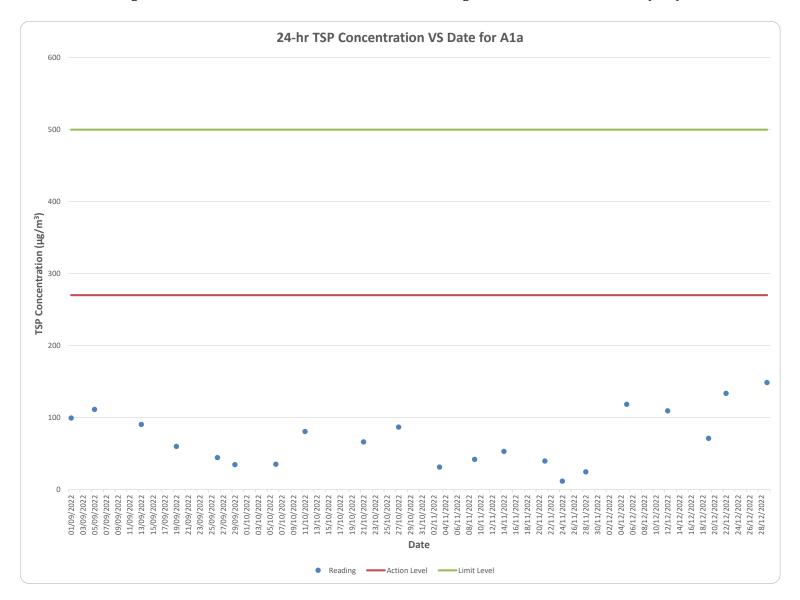
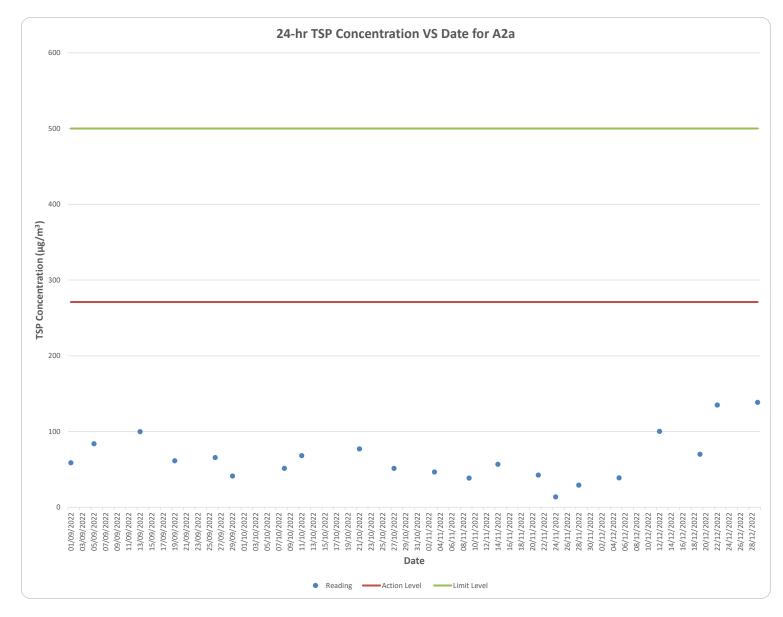


Figure D.4 Measured 24-Hour TSP at the existing outfall pumping station inside the construction site (A2a)



APPENDIX E Calibration Certificates (Noise)



Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

SVANTEK

Type No .:

971 (Serial No.: 103482)

Microphone:

ACO 7052E (Serial No.: 79788)

Preamplifier:

SV18 (Serial No.: 103880)

Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T.

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

☑ Within (31.5 Hz to 4000Hz)

☐ Outside

the allowable tolerance.

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

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

Date of receipt: 9 March 2022

Date of calibration: 11 March 2022

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 11 March 2022

Certificate No.: APJ21-163-CC001

Page 1 of 4



1. Calibration Precaution:

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

2. Calibration Conditions:

 Air Temperature:
 23 °C

 Air Pressure:
 1006 hPa

 Relative Humidity:
 65 %

3. Calibration Equipment:

| | Type | Serial No. | Calibration Report Number | Traceable to |
|--------------------------|----------|------------|------------------------------|--------------|
| Multifunction Calibrator | B&K 4226 | 2288467 | AV200041 | HOKLAS |

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

| Setting of Unit-under-test (UUT) | | | | Арр | lied value | UUT Reading, | IEC 61672 Class 1 | |
|----------------------------------|---------|-----------|----------------|-----------|---------------|--------------|-------------------|--|
| Range, dB | Freq. V | Veighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 25-124 | dBA | SPL | Fast | 94 | 1000 | 94.0 | ±0.4 | |

Linearity

| Sett | ing of Uni | it-under-t | est (UUT) | App | lied value | UUT Reading, | IEC 61672 Class 1 |
|-----------|------------|------------|----------------|-----------|---------------|--------------|-------------------|
| Range, dB | Freq. W | eighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| | | | | 94 | | 94.0 | Ref |
| 25-124 | dBA | SPL | Fast | 104 | 1000 | 104.0 | ±0.3 |
| | | | | 114 | | 114.0 | ±0.3 |

Time Weighting

| Sett | ing of Uni | t-under-t | est (UUT) | App | lied value | UUT Reading, | IEC 61672 Class 1 |
|-----------|------------|-----------|----------------|-----------|---------------|--------------|-------------------|
| Range, dB | Freq. W | eighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| 25-124 | dBA | SPL | Fast | 94 | 1000 | 94.0 | Ref |
| 23-124 | UDA | SPL | Slow | 94 | 1000 | 94.0 | ±0.3 |

Certificate No.: APJ21-163-CC001

(A+A) *L Page 2 of 4

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Frequency Response

Linear Response

| Setting of Unit-under-test (UUT) | | | | App | lied value | UUT Reading, | IEC 61672 Class | |
|----------------------------------|----------|----------|----------------|---------------------------|------------|--------------|-------------------|--|
| Range, dB | Freq. We | eighting | Time Weighting | Level, dB Frequency, Hz | | dB | Specification, dB | |
| | | | | | 31.5 | 94.4 | ±2.0 | |
| | | | | | 63 | 94.3 | ±1.5 | |
| 25-124 dB SPL | F | | 125 | 94.2 | ±1.5 | | | |
| | | 94 | 250 | 94.1 | ±1.4 | | | |
| | SPL | Fast | 94 | 500 | 94.1 | ±1.4 | | |
| | | | | | 1000 | 94.0 | Ref | |
| | | | | | 2000 | 93.7 | ±1.6 | |
| | | | | | 4000 | 93.0 | ±1.6 | |

A-weighting

| Sett | Setting of Unit-under-test (UUT) | | | | lied value | UUT Reading, | IEC 61672 Class 1 |
|-----------|----------------------------------|-----------|----------------|-----------|---------------|--------------|-------------------|
| Range, dB | Freq. V | Veighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| | | | | | 31.5 | 55.0 | -39.4 ±2.0 |
| | | | | | 63 | 68.0 | -26.2 ±1.5 |
| | | | 125 | 78.0 | -16.1 ±1.5 | | |
| 25-124 | 25-124 dBA SPL | Fast | 94 | 250 | 85.4 | -8.6 ±1.4 | |
| 23-124 | UDA | SPL | rast | 94 | 500 | 90.8 | -3.2 ±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | 11 | 2000 | 94.8 | +1.2 ±1.6 |
| | | | | | 4000 | 94.0 | +1.0±1.6 |

C-weighting

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading, | IEC 61672 Class 1 |
|----------------------------------|---------|----------|----------------|---------------|---------------|--------------|-------------------|
| Range, dB | Freq. W | eighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| | | | | | 31.5 | 91.4 | -3.0 ±2.0 |
| | | | | | 63 | 93.5 | -0.8 ±1.5 |
| | | | | | 125 | 94.0 | -0.2 ±1.5 |
| 25-124 | dBC | SPL | Fast | 94 | 250 | 94.1 | -0.0 ±1.4 |
| 23-124 | ubc | SFL | rast | 94 | 500 | 94.1 | -0.0 ±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 93.6 | -0.2 ±1.6 |
| | | | | | 4000 | 92.2 | -0.8 ±1.6 |

Certificate No.: APJ21-163-CC001



Page 3 of 4

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

E-mail:inquiry@aa-lab.com



5. Calibration Results Applied

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

Uncertainties of Applied Value:

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

The uncertainties are evaluated for a 95% confidence level.

Note:

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

Certificate No.: APJ21-163-CC001



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Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

NTi Audio

Type No.:

XL2 (Serial No.: A2A-13663-E0)

Microphone:

ACO 7052 (Serial No.: 73780)

Preamplifier:

NTi Audio MA220 (Serial No.:10390)

Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong

Street, Cheung Sha Wan, Kowloon

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

☑ Within (31.5 Hz – 4k Hz)

☐ Outside

the allowable tolerance.

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

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

Date of receipt: 21 February 2022

Date of calibration: 24 February 2022

Calibrated by: ________Calibration Technician

Certified by:

Mr. Tang Cheuk Hang Quality Manager

Date of issue: 24 February 2022

Certificate No.: APJ21-157-CC001

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E-mail: inquiry@aa-lab.com



1. Calibration Precaution:

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

2. Calibration Conditions:

 Air Temperature:
 18.4 °C

 Air Pressure:
 1018 hPa

 Relative Humidity:
 47.2 %

3. Calibration Equipment:

| | Type | Serial No. | Calibration Report Number | Traceable to |
|--------------------------|----------|------------|------------------------------|--------------|
| Multifunction Calibrator | B&K 4226 | 2288467 | AV200041 | HOKLAS |

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

| Sett | Setting of Unit-under-test (UUT) | | | App | Applied value | | Reading, IEC 61672 Class 1 | |
|-----------|----------------------------------|----------|----------------|-----------|---------------|------|----------------------------|--|
| Range, dB | Freq. Wo | eighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 30-130 | dBA | SPL | Fast | 94 | 1000 | 94.0 | ±0.4 | |

Linearity

| Sett | ing of Uni | t-under-t | est (UUT) | Арр | lied value | UUT Reading, | IEC 61672 Class 1 |
|-----------|------------|-----------|----------------|-----------|---------------|--------------|-------------------|
| Range, dB | Freq. W | eighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| | | | | 94 | | 94.0 | Ref |
| 30-130 | dBA | SPL | Fast | 104 | 1000 | 104.0 | ±0.3 |
| | | | | 114 | | 114.0 | ±0.3 |

Time Weighting

| Sett | ing of Uni | it-under-t | est (UUT) | Appl | lied value | UUT Reading, | IEC 61672 Class 1 |
|-----------|------------|------------|----------------|-----------|---------------|--------------|-------------------|
| Range, dB | Freq. W | eighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| 30-130 | dBA | SPL | Fast | 94 | 1000 | 94.0 | Ref |
| 30-130 | UDA | SIL | Slow | 94 | 1000 | 94.0 | ±0.3 |

Certificate No.: APJ21-157-CC001

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Frequency Response

Linear Response

| Sett | Setting of Unit-under-test (UUT) | | | Applied value | | UUT Reading, | IEC 61672 Class 1 |
|-----------|----------------------------------|----------|----------------|---------------|---------------|--------------|-------------------|
| Range, dB | Freq. W | eighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| | | | | | 31.5 | 94.1 | ±2.0 |
| | | | | | 63 | 94.1 | ±1.5 |
| | | | | | 125 | 94.1 | ±1.5 |
| 30-130 | dB | SPL | Fast | 94 | 250 | 94.0 | ±1.4 |
| 30-130 | uБ | SIL | rast | 94 | 500 | 94.0 | ±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 93.8 | ±1.6 |
| | | | | | 4000 | 93.3 | ±1.6 |

A-weighting

| Sett | ing of Uni | t-under-t | under-test (UUT) | | lied value | UUT Reading, | IEC 61672 Class 1 |
|-----------|------------|-----------|------------------|-----------|---------------|--------------|-------------------|
| Range, dB | Freq. W | eighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| | | | | | 31.5 | 54.8 | -39.4 ±2.0 |
| | | | | | 63 | 67.9 | -26.2±1.5 |
| | | | | | 125 | 78.0 | -16.1 ±1.5 |
| 30-130 | dBA | SPL | Fast | 94 | 250 | 85.4 | -8.6±1.4 |
| 30-130 | UDA | SFL | rasi | 94 | 500 | 90.8 | -3.2 ±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 95.0 | +1.2 ±1.6 |
| | | | | | 4000 | 94.3 | +1.0±1.6 |

C-weighting

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading, | IEC 61672 Class 1 |
|----------------------------------|---------|----------|----------------|---------------|---------------|--------------|-------------------|
| Range, dB | Freq. W | eighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| | | | | | 31.5 | 91.1 | -3.0 ±2.0 |
| | | | | | 63 | 93.3 | -0.8 ±1.5 |
| | | | | | 125 | 93.9 | -0.2 ±1.5 |
| 30-130 | dBC | SPL | Fast | 94 | 250 | 94.0 | -0.0 ± 1.4 |
| 30-130 | ubc | 21.17 | rast | 94 | 500 | 94.1 | -0.0±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 93.6 | -0.2 ±1.6 |
| | | | | | 4000 | 92.5 | -0.8±1.6 |

Certificate No.: APJ21-157-CC001



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E-mail: inquiry@aa-lab.com



5. Calibration Results Applied

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

Uncertainties of Applied Value:

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

The uncertainties are evaluated for a 95% confidence level.

Note:

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

Certificate No.: APJ21-157-CC001



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Certificate No. D224350E



CALIBRATION CERTIFICATE

Product

SOUND CALIBRATOR

Type

: NC-75

Serial number

34724244

Manufacturer

: RION CO., LTD.

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

: Measured by specified secondary standard microphone

according to JCSS calibration procedure specified by RION.

Ambient conditions

: Temperature 23.9 °C, Relative humidity 49 %,

Static pressure 99.9 kPa

Calibration date

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

Calibration location

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

RION CO., LTD. Calibration Room

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

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

Junichi Kawamura

Manager

Quality Assurance Section, Quality Assurance Department,

Environmental Instrument Division, RION CO., LTD.

3-20-41 Higashimotomachi, Kokubunji,

Tokyo 185-8533, Japan

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

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

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

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

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



Page 2 of 2

Certificate No. D224350E

CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

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

Specified secondary standard microphone:

Type

4160

Serial number : 2973341

Reference Sound pressure : 2×10^{-5} Pa

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

Coverage factor k=2

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

BE OUT OF JCSS CALIBRATION

1. Frequency

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

Working measurement standard universal counter:

Type

: 53132A

Serial number : MY40005574

(JCSS Calibration Certificate No. 21081499079575510)

2. Total distortion

| Measured | |
|----------|-------|
| value | |
| 0.2 % | -2000 |

Working measurement standard distortion meter:

Type : VA-2230A Serial number : 11076061

(A2LA Calibration Certificate No. 1501-03080)

· closing ·



Page 1 of 2

Certificate No. D224349E



CALIBRATION CERTIFICATE

Product : SOUND CALIBRATOR

Type : NC-75 Serial number : 34724243

Manufacturer : RION CO., LTD.

Calibration quantities : Sound pressure level (with reference standard microphone)
Calibration method : Measured by specified secondary standard microphone

according to JCSS calibration procedure specified by RION.

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

Static pressure 99.9 kPa

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

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

RION CO., LTD. Calibration Room

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

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

Junichi Kawamura

Manager

Quality Assurance Section, Quality Assurance Department, Environmental Instrument Division,

RION CO., LTD.

3-20-41 Higashimotomachi, Kokubunji,

Tokyo 185-8533, Japan

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

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

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

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

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



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Certificate No. D224349E

CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

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

Specified secondary standard microphone:

Type

: 4160

Serial number : 2973341

Reference Sound pressure : 2×10^{-5} Pa

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

Coverage factor k=2

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

BE OUT OF JCSS CALIBRATION

1. Frequency

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

Working measurement standard universal counter:

Type

: 53132A

Serial number : MY40005574

(JCSS Calibration Certificate No. 21081499079575510)

2. Total distortion

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

Working measurement standard distortion meter:

Type Serial number : 11076061

: VA-2230A

(A2LA Calibration Certificate No. 1501-03080)

· closing ·



APPENDIX F Monitoring Data (Noise)

Location: N2a

Monitoring Period: December 2022

Parameter: Noise

Major Noise Source: Construction activities and daily operation of the sewerage

treatment plant

Other Factors NA

| Date | Weather | Start Time | Leq | L ₁₀ | L ₉₀ | | |
|------------|---------|------------|------|-----------------|-----------------|--|--|
| 2022/12/6 | Sunny | 14:57 | 70.3 | 73.8 | 64.3 | | |
| 2022/12/13 | Cloudy | 14:36 | 73.2 | 75.3 | 70.6 | | |
| 2022/12/20 | Sunny | 14:50 | 74.4 | 76.0 | 71.7 | | |
| 2022/12/30 | Fine | 15:04 | 70.8 | 77.7 | 69.8 | | |
| Average | | | | 72.5 | | | |
| | | Range | 7. | 70.3 – 74 | .4 | | |

Location: N3a

Monitoring Period: December 2022

Parameter: Noise

Major Noise Source: Construction activities and daily operation of the sewerage

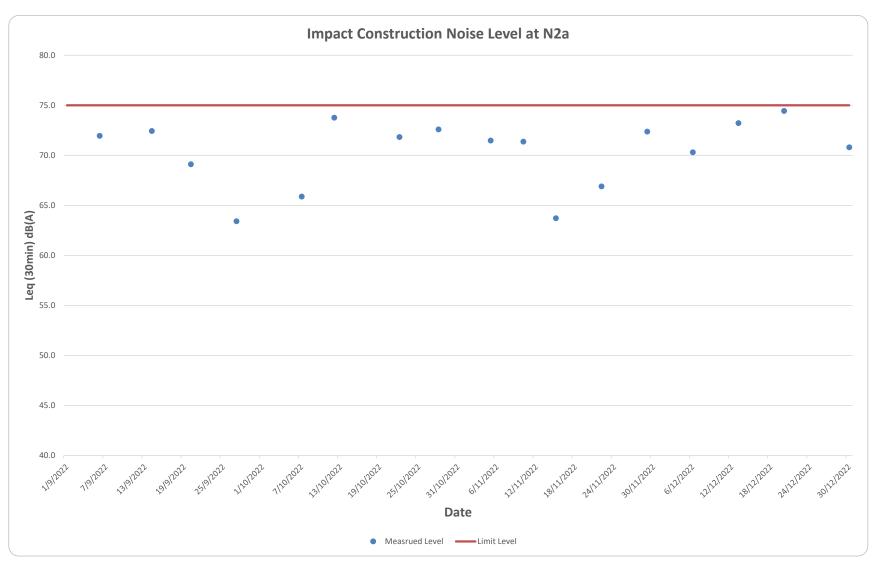
treatment plant

Other Factors NA

| Date | Weather | Start Time | $\mathbf{L}_{\mathbf{eq}}$ | L ₁₀ | L ₉₀ |
|------------|---------|------------|----------------------------|-----------------|-----------------|
| | _ | | | | |
| 2022/12/6 | Sunny | 13:43 | 73.5 | 75.8 | 67.6 |
| 2022/12/13 | Cloudy | 13:13 | 72.5 | 75.0 | 61.1 |
| 2022/12/20 | Sunny | 13:06 | 70.5 | 73.1 | 54.3 |
| 2022/12/30 | Fine | 14:19 | 66.8 | 70.3 | 60.7 |
| | 71.8 | | | | |
| Range | | | | 6.8 – 73 | .5 |

Remarks: +3 dB(A) free-field corrections have been made to N3a.

Figure F.1 Measured daytime (0700-1900) noise level at the admin building inside the construction site (N2a)



Impact Construction Noise Level at N3a 80.0 75.0 70.0 Leq (30min) dB(A) 50.0 45.0 40.0 Date Measured Level ——Limit Level

Figure F.2 Measured daytime (0700-1900) noise level at Cheung Chau Fire Station (N3a)

s: +3 dB(A) free-field corrections have been made to the data in the graph.

APPENDIX G

Implementation Schedule

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | Loc |
|------------------------|--|---|--------------------------------|-----|
| | | | | D |
| Construction Phase (Up | grading Works of Cheung Chau STW and Pak She SPS | (DP Component)) | | |
| S.3.5.5 | Appropriate dust control measures should be implemented during the construction stage in accordance with the requirements in the Air Pollution Control (Construction Dust) Regulation. Dust control techniques should be considered to control dust to a level not exceeding the AQOs as well as the 1-hour TSP guideline level of 500 µg/m³. These measures include, but are not limited to, the following: • Adoption of good site practices; • Avoid practices likely to raise dust level; • Frequent cleaning and damping down of stockpiles and dusty areas of the site; • Covering the exposed areas with tarpaulin; • Reducing drop height during material handling; • Provision of wheel-washing facilities for site vehicles leaving the site; • Regular plant maintenance to minimize exhaust emission; and • Sweep up dust and debris at the end of each shift. | Air Quality (fugitive dust) Control during Construction Phase | Contractors | |
| S.3.10.1 | All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include: | Air Quality (fugitive dust) Control during Construction Phase | Contractors | |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | Location / Timing of implementation of Measures | | | What requirements or standards for the measures to achieve? |
|----------|---|---|--------------------------------|---|----------|---|---|
| | | | measures? | D | С | 0 | |
| S.3.10.1 | Watering every 1.5 hours on active works areas and paved haul roads to reduce dust emissions by 90.9% (e.g. watering intensity at 0.5 litres/m². Actual application shall depend on the site condition and weather conditions). | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | √ | | EIA, Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | Watering every hour on unpaved areas and stockpiles of dusty materials (if no tarpaulin is provided) to reduce dust emissions by 90% (e.g. watering intensity at 1.5 litre/m² during the first hour, subsequent application at 0.2 litre/m². Actual application shall depend on the site condition and weather conditions). | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | 1 | | EIA, Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | V | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | Use of frequent watering for particularly dusty construction areas and areas close to ASRs | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | √ | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | Vehicle washing facilities should be provided at every vehicle exit point | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | √ | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |

| EIA Ref. | , | | implement the | Location / Timin implementatio Measures | | on of | What requirements or standards for the measures to achieve? |
|----------|---|---|------------------|---|---|-------|--|
| | | | measures? | D | С | 0 | |
| S.3.10.1 | Where a site boundary adjoins a road, streets or other areas accessible to the public, hoarding of not less than 2.4 m high from ground level should be provided along the entire length except for a site entrance or exit | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | V | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | Stockpiles of imported material kept on site shall be contained within hoarding, dampened and/or covered during dry and windy weather | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | 1 | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | Material stockpiled alongside trenches should be covered with tarpaulins | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | V | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | V | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | Location / Timing of implementation of Measures | | | What requirements or standards for the measures to achieve? |
|----------|--|---|--------------------------------|---|----------|---|--|
| | | | | D | С | 0 | |
| S.3.10.1 | Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or spayed with water to maintain the entire surface wet during the non-working hours | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | √ | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | All dusty materials shall be sprayed with water prior to any loading, unloading or transfer operation so as to keep the dusty materials wet | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | √ | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | Water sprays shall be used during the delivery and handling of sands aggregates and the like | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | √ | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |
| S.3.10.1 | All demolished items that may emit dust particles should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | V | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | Location / Timing of implementation of Measures | | | What requirements or standards for the measures to achieve? |
|----------|--|---|--------------------------------|---|---|---|--|
| | | | | D | С | 0 | |
| S.3.10.1 | Good site practices for concrete batching plant Every stock of more than 20 bags of cement or dry pulverized fuel ash(PFA) should be cover entirely by impervious sheeting or placed in an area sheltered on the top and the sides. Cement or dry PFA delivered in bulk should stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed. Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with effective fabric filter or equivalent air pollution control system (Maximum TSP emission factor of Silos and Mising Tower: 50mg/m³) | Air Quality (fugitive dust) Control during Construction Phase | Contractors | | √ | | Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation Best Practical Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) |

| EIA Ref. | Recommended Environmental Protection Measures / Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | Location / Timing of implementation of Measures | What requirements or standards for the measures to achieve? | | | | | |
|-----------------------|---|---|--------------------------------|--|---|--|--|--|--|--|
| Construction Phase (U | Construction Phase (Upgrading Works of Cheung Chau STW and Pak She SPS (DP Component)) | | | | | | | | | |
| S.4.4.12 | Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works. | Noise control during construction | Contractors | At all construction areas of the site during the entire construction period | EIA, Contractual requirements | | | | | |
| S.4.4.12 | Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. | Noise control during construction | Contractors | At all construction areas of the site during the entire construction period | EIA, Contractual requirements | | | | | |
| S.4.4.12 | Plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs. | Noise control during construction | Contractors | At all construction areas of the site during the entire construction period | EIA, Contractual requirements | | | | | |
| S.4.4.12 | Mobile plant should be sited as far away from NSRs as possible. | Noise control during construction | Contractors | At all construction areas of the site during the entire construction period | EIA, Contractual requirements | | | | | |
| S.4.4.12 | Material stockpiles and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities. | Noise control during construction | Contractors | At all construction areas of the site during the entire construction period | EIA, Contractual requirements | | | | | |

| EIA Ref. | Recommended Environmental Protection Measures / Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | Location / Timing of implementation of Measures | What requirements or standards for the measures to achieve? |
|----------|--|---|--------------------------------|---|---|
| S.4.4.13 | Use of quiet plant (PME): Generator Poker, vibratory, hand-held Breaker, excavator mounted (hydraulic) Excavator Tracked Mobile Crane Vibratory Compactor Dumper Air compressor Concrete Pump Pilling Rig | Noise control during construction | Contractors | At all construction areas of the site during the entire construction period | EIA, Contractual requirements |
| S.4.4.14 | Temporary site hoardings of 2.4 m high are recommended for the works at the Pak She SPS. The hoardings will be erected along the works boundary facing the NSRs. The PME involved in the works would be screened by the erected site hoardings. Without direct line of sight from the affected NSRs, a noise reduction of 10 dB(A) could be achieved provided that the hoardings have no openings or gaps and have a surface mass of at least 7 kg/m². Nonetheless, a -5 dB(A) screening correction for site hoardings has been applied as a more conservative approach. | Noise control during construction | Contractors | At Pak She SPS during the entire construction period | EIA |
| S.4.4.23 | For NSRs which would be affected by more than one Works Types, good scheduling works is recommended to minimize the cumulative construction noise impacts due to different Works Types. | Noise control during construction | Contractors | Construction areas near the specified locations during the construction period | EIA, Contractual requirements |

| EIA Ref. | Recommended Environmental Protection Measures / Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | Location / Timing of implementation of Measures | What requirements or standards for the measures to achieve? |
|----------|--|---|--------------------------------|---|---|
| S.4.4.29 | In order to prevent potential cumulative construction noise impacts to NSRs, the works at Tai Kwai Wan San Tsuen are recommended to be scheduled to avoid concurrent works at the areas near Tai Kwai Wan of the Improvement of Fresh Water Supply to Cheung Chau project. | Noise control during construction | DSD and Contractors | Construction areas near the specified locations during the construction period | EIA, Contractual requirements |
| S.4.4.30 | The contractor shall liaise with "Replacement and Rehabilitation of Water Mains Stage 4, Mains on Hong Kong and Islands – Investigation, Design and Construction" contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. | Noise control during construction | DSD and Contractors | Construction areas near the specified locations during the construction period | EIA, Contractual requirements |
| S.4.4.31 | The contractor shall liaise with Improvement to Existing Roads and Drains in Cheung Chau Old Town, Remaining Engineering Works Stage 3 works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. | Noise control during construction | DSD and Contractors | Construction areas near the specified locations during the construction period | EIA, Contractual requirements |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | When to implement the measures? | | | What requirements or standards for the |
|-----------------------|---|---|--------------------------------|---------------------------------|----------|---|--|
| | | | measures? | D | С | 0 | measures to achieve? |
| Construction Phase (U | pgrading Works of Cheung Chau STW and Pak She SPS (DP Com | ponent) and Sewers Work | s (non-DP Compo | nent)) | • | | |
| S.5.7.1 | Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: • Perimeter channels are to be installed in works areas to intercept runoff at the site boundary prior to the commencement of any earthworks. Surface runoff should be discharged into storm drains via sand/ silt removal facilities with an adequate capacity; • Works programme should be designed to minimize works areas to reduce soil exposure and site runoff; • Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; • Works programme should be carefully planned to minimize the scale of soil excavation during the rainy season; • Earthworks surfaces should be well compacted and subsequent permanent works or surface protection measures should be carried out immediately; • All vehicles should be washed before they leave the construction site to avoid earth, mud, and debris being carried off from the site. Wash-water should be treated to remove sand and silt at least on a weekly basis to ensure the continued efficiency of the washing facility; | Water Quality Control | Contractors | | V | | WPCO; TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | When to implement the measures? | | | What requirements or standards for the |
|---------------------|---|---|--------------------------------|---------------------------------|----------|---|---|
| | | | medsures? | D | С | 0 | measures to achieve? |
| (cont) | Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric materials during storms; For sections of pipes that need to be laid underneath water courses with the open cut method, site works should be carried out during the dry season with a temporary drainage diversion; and; Any construction works along Hak Pai Road immediately by the Kwun Yam beach and Cheung Chau Tung Wan beach should be avoided during the swimming season. | Water Quality Control | Contractors | | V | | WPCO; TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water |
| S.5.7.2 and S.5.7.3 | Mitigations Measures for General Construction Activities: Good site practices should be adopted to regularly clean the construction sites to avoid rubbish, debris and litter from entering to nearby water bodies; and Good construction and site management practices should be implemented to ensure that litter, fuels, and solvents would not enter the public drainage systems. | Water Quality Control | Contractors | | V | | WPCO; TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main | Who to implement the measures? | When to implement the measures? | | | What requirements or standards for the |
|---------------------|--|---|--------------------------------|---------------------------------|---|---|---|
| | | concerns to address | illedsures? | D | С | 0 | measures to achieve? |
| S.5.7.4 | Domestic sewage generated by workforce would be collected and discharged to the STW for proper treatment. Portable toilets should be provided by the Contractor, where necessary, to handle sewage from the workforce. The Contractor should also be responsible for waste disposal. | Water Quality Control | Contractors | | ٨ | | WPCO; TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water |
| S.5.7.5 and S.5.7.6 | Mitigations Measures for Spillage of Chemicals: Registration to EPD as a Chemical Waste Producer if chemical wastes are generated and need to be disposed of; Illegal disposal of chemicals should be strictly prohibited; and Oils and fuels should only be used and stored in the designated area which has polluting prevention facilities. | Water Quality Control | Contractors | | ٧ | | WPCO; TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water |

| EIA Ref. | | implement the | When to impleme the measures? | | | What requirements or standards for the | |
|-----------------------|--|--------------------------------------|-------------------------------|--------|---|--|---|
| | | | medsures? | D | С | 0 | measures to achieve? |
| Construction Phase (U | Jpgrading Works of Cheung Chau STW and Pak She SPS (DP Comp | oonent) and Sewers Work | s (non-DP Compor | nent)) | | • | |
| S.6.6.1 | The Contractor shall prepare a Waste Management Plan in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Site, for the ER's approval. The WMP shall include monthly and yearly Waste Flow Tables that indicate the amounts of waste generated, recycled and disposed of (including final disposal site). | Waste management during construction | Contractors | | √ | | ETWB TCW No. 19/2005, Waste Management on Construction Sites |
| S.6.6.1 | The Contractor's waste management practices and effectiveness shall be audited by the Engineer's Representative on regular basis. | Waste management during construction | DSD | | √ | | Waste Disposal Ordinance |
| S.6.6.1 | The Contractor shall provide training for site staff concept of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling. | Waste management during construction | Contractors | | 1 | | Waste Disposal Ordinance |
| S.6.6.1 | Sufficient waste disposal points and regular collection of waste shall be provided. | Waste management during construction | Contractors | | √ | | Waste Disposal Ordinance |
| S.6.6.1 | Trucks with covering for the open-box bed and enclosed container shall be used to minimise windblown litter and dust during transportation of waste. | Waste management during construction | Contractors | | 1 | | Waste Disposal Ordinance |
| S.6.6.1 | Regular cleaning and maintenance programme for drainage systems, pumps and oil interceptors. | Waste management during construction | Contractors | | √ | | Waste Disposal Ordinance |

| EIA Ref. Recommended Environmental Protection Measures/ Mitigation Measures | | Objectives of the recommended measures & main | Who to implement the measures? | When to implement the measures? | | | What requirements or standards for the |
|---|--|---|--------------------------------|---------------------------------|----------|---|--|
| | | concerns to address | illeasules ! | D | С | 0 | measures to achieve? |
| S.6.6.1 | Separation of chemical wastes for special handling and appropriate treatment at a Chemical Waste Treatment Facility (CWTF). | Waste management during construction | Contractors | | √ | | Waste Disposal (Chemical Waste) (General) Regulation |
| S.6.6.1 | Encourage collection of aluminium cans, paper and plastic bottles by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the workforce. | Waste management during construction | Contractors | | √ | | Waste Disposal Ordinance |
| S.6.6.1 | 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. | Waste management during construction | Contractors | | √ | | Waste Disposal Ordinance |
| S.6.6.1 | A recording system for the amount of wastes generated, recycled and disposed (including disposal sites) should be proposed. | Waste management during construction | Contractors | | V | | Waste Disposal Ordinance |
| S.6.6.1 | Plan and stock construction materials to minimise amount of waste generated and avoid unnecessary generation of waste. | Waste management during construction | Contractors | | V | | Waste Disposal Ordinance |
| S.6.6.2 | Alternatives C&D materials such as steel frameworks and plastic fencing can be considered to increase the chances for reuse. | Waste management during construction | Contractors | | V | | Waste Disposal Ordinance |
| S.6.6.3 | In order to minimise the potential environmental impacts resulting from collection and transportation of C&D materials for off-site disposal, the excavated materials comprising fill materials should be reused on-site as backfilling materials as far as practicable. | Waste management during construction | Contractors | | √ | | Waste Disposal Ordinance |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main | ed implement the | | to impl | | What requirements or standards for the |
|----------|--|---|------------------|---|---------|---|---|
| | | concerns to address | | D | С | 0 | measures to achieve? |
| S.6.6.4 | C&D waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed of to landfill sites. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process. In order to monitor the disposal of C&D materials at the designated public fill reception facility and landfill and to control fly-tipping, a trip ticket system should be included. Reference can be made to Development Bureau Technical Circular (Works) (TC(W)) No. 6/2010 for details. | Waste management during construction | Contractors | | ٧ | | Development Bureau Technical Circular (Works) (TC(W)) No. 6/2010, Waste Disposal Ordinance |
| S.6.6.5 | The C&D materials to be disposed of at public filling reception facilities shall be only materials consist of brick, concrete, cement plaster, soil and inert building debris. The materials shall be free from plastics, chemical waste, industrial metals and other materials that are considered unsuitable at the facility. | Waste management during construction | Contractors | | √ | | Waste Disposal Ordinance |
| S.6.6.6 | General refuse should be stored in enclosed bins or compaction units separate from C&D materials. A reputable waste collector should be employed by the contractor to remove general refuse from the site regularly, separately from C&D materials. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light materials. In addition, a sufficient number of enclosed bins shall be provided on site for containment of general refuse to prevent visual impacts and nuisance to the sensitive surrounding. | Waste management during construction | Contractors | | 1 | | Waste Disposal Ordinance |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | to impl measur | What requirements or standards for the measures to achieve? |
|----------|---|---|--------------------------------|-------------------|---|
| S.6.6.7 | For the disposal of chemical wastes produced at the construction site, the Contractor is required to register with the EPD as a Chemical Waste Producer and to follow the requirements stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used. Appropriate labels should be securely attached on each chemical waste container indicating the chemical characteristics of the chemical waste, such as explosives, flammable oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall also use a licensed waste collector engaged to transport and dispose of the chemical wastes in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. | Waste management during construction | Contractors | √ | Waste Disposal (Chemical Waste) (General) Regulation |
| S.6.6.8 | Chemical toilets to be provided on-site shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal. | Waste management during construction | Contractors | √ | Waste Disposal Ordinance |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | to impl measur | What requirements or standards for the measures to achieve? |
|--------------------|--|---|--------------------------------|-------------------|---|
| Construction Phase | e (Upgrading Works of Cheung Chau STW (DP Component)) | | | | |
| Table 11.8 | Visual Screen/Hoarding Decorative hoarding or boundary fence for construction sites shall be considered, and designed to be compatible to the surroundings. | To minimise the potential visual impacts | Contractors | √ | N/A |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | | to impl measur | What requirements or standards for the measures to achieve? |
|------------|--|---|--------------------------------|---|-------------------|---|
| Table 11.8 | Protection to Existing Trees within Works Areas All existing trees which are not in direct conflict with the proposed works will be retained. The existing trees proposed to be retained shall be properly maintained and protected by means of fencing to prevent vehicular or pedestrian intrusion that may potentially damage tree canopies, trunks and root zones. Detailed tree protection specifications shall be allowed and included in the Contract Specification, which specifying the tree protection requirement, submission and approval system, and tree monitoring system. For trees with high preservation value, individual tree assessments and continuous tree monitoring reports shall be provided by a certified Arborist, Landscape Architect or related professional during construction. All retained trees shall be recorded photographically at the commencement of contract. Root pruning to the retained trees should be prohibited. Retained trees should be well-preserved by setting up a tree protection zone throughout the construction period for protecting the retained trees from damages. To maximize protection to existing trees and ground vegetation, construction contracts may designate "No-intrusion Zone" to various areas within the site boundary with rigid and durable fencing for each individual no-intrusion zone. The contractor should close monitor and restrict the site working staff not to enter the "no-intrusion zone", even for non-direct construction activities and storage of equipment. | Landscape mitigation measures | DSD and Contractors | √ | √ · | EIA, Annex 10 and Annex 18 of EIAO- TM |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to | Who to implement the | When to implement the measures? | | | What requirements or standards for the |
|------------|--|--|------------------------|---------------------------------|----------|---|--|
| | | address | measures? | D | С | 0 | measures to achieve? |
| Table 11.8 | Tree Transplanting Existing trees to be affected shall be directly transplanted to the proposed tree receiving sites, or to temporary tree nurseries alternatively. Temporary tree nurseries may be set up for the transplanted tree and proposed trees at an early stage to allow small trees to grow during the construction stage. By the time when planting area becomes available, trees have been mature and required minimal pruning and suffer much less damage during transplanting. The construction programme should also allow sufficient time for root pruning and root ball preparation prior to transplanting, if necessary, and transplanting operations to be carried out in planting season. Tree pruning such as topping, lion tailing would be prohibited as far as possible. Also, frequent keep watering would be necessary for transplanting trees. The proposed tree preservation measures during construction would be carried out and approved by the competent persons. | Landscape mitigation measures | DSD and Contractors | ~ | V | | EIA, Annex 10 and Annex 18 of EIAO- TM |
| Table 11.8 | Construction Light Security floodlight for construction areas shall be controlled, such as equipped with adjustable shield, frosted diffusers and reflective covers, at night to avoid excessive glare to the nearby areas and residents. Other security measures shall also be considered to minimize the visual impacts by construction light. | To reduce the night-time glare effect to the surrounding environs. | Contractors | | V | | EIA, Annex 10 and Annex 18 of EIAO- TM |

| EIA Ref. | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Who to implement the measures? | to impl measu C | ement res? | What requirements or standards for the measures to achieve? |
|------------|---|--|--------------------------------|-----------------------|---------------|---|
| Table 11.8 | Dust and Erosion Control for Exposed Soil Excavation works and demolition of existing building blocks shall be well planned with precautions to suppress dust. Exposed soil shall be covered or watered often. Areas that are expected to be left with bare soul for a long period of time after excavation shall be properly covered with suitable protective fabric. Suitable drainage shall be provided around construction sites to avoid discharge of contaminants and sediments into sensitive water-based habitats. | To minimise the disturbance to existing landscape resources and minimise the impacts on the visual amenity of the area | Contractors | 1 | | EIA, Annex 10 and Annex 18 of EIAO- TM |
| Table 11.8 | Reinstatement of Works Areas The affected works areas shall be properly reinstated to the satisfaction of relevant government departments. | Landscape mitigation measures | Contractors | √ | | EIA, Annex 10 and Annex 18 of EIAO- TM |

APPENDIX H Summary of All Complaints Received, Notification of Summons and Successful Prosecutions

Statistical Summary of Environmental Complaints

| | Environmental Complaints Statistics | | | | | |
|-------------------|--|------|-------------------|--|--|--|
| Reporting Period | Frequency Nature | | Follow-up Actions | | | |
| 1 December 2022 - | 0 | NI/A | NI/A | | | |
| 31 December 2022 | U | N/A | N/A | | | |
| Cumulative | 0 | N/A | N/A | | | |

Statistical Summary of Environmental Summons

| | Environmental Summons Statistics | | | | | |
|-------------------|----------------------------------|------------------|------|--|--|--|
| Reporting Period | Frequency | Frequency Nature | | | | |
| 1 December 2022 - | 0 | NI/A | NI/A | | | |
| 31 December 2022 | 0 | N/A | N/A | | | |
| Cumulative | 0 | N/A | N/A | | | |

Statistical Summary of Environmental Prosecution

| | Environmental Prosecution Statistics | | | | | |
|-------------------|---|--------|-------------------|--|--|--|
| Reporting Period | Frequency | Nature | Follow-up Actions | | | |
| 1 December 2022 - | 0 | NI/A | NI/A | | | |
| 31 December 2022 | 0 | N/A | N/A | | | |
| Cumulative | 0 | N/A | N/A | | | |

APPENDIX I

EM&A Monitoring Schedules in the Reporting Period and the Next Reporting Period (Tentative)



| | | mpact Monitoring Schedule for Upgr | | ction, Treatment and Disposal Facilit | ies | | | | | |
|----------|--|---|-----|---|---|-----|--|--|--|--|
| Dec-22 | | | | | | | | | | |
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | | | | |
| | 24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a | Daytime Noise monitoring for N2a & N3a | | 1 | 2 | 3 | | | | |
| 4 | 5 24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a | Daytime Noise monitoring for N2a & N3a | 7 | 8 | 9 | 10 | | | | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | | | | |
| | 24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a | Daytime Noise monitoring for N2a & N3a | | | | | | | | |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | | |
| | 24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a | Daytime Noise monitoring for N2a & N3a | | 24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a | | | | | | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | |
| Remarks: | | | | 24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a | Daytime Noise monitoring for N2a & N3a | | | | | |

Remarks:

1. Daytime Noise Monitoring (07:00-1900)

| Impact Monitoring Schedule for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities | | | | | | | | | | | |
|--|-----|-----|-----|---|-----|-----|--|--|--|--|--|
| Jan-23 | | | | | | | | | | | |
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | |
| | | | | 24-hour TSP monitoring for A2a Daytime Noise monitoring for N2a & N3a | | | | | | | |

