

Atkins China Limited Chief Resident Engineer's Office No. 17 Cheung Chau Sai Tai Road Cheung Chau, New Territories Hong Kong

Attn: Mr. Elwyn Lo – Chief Resident Engineer

Your Reference	Contract No. CM 04/2021
Our Reference AFK/EC/TC/LL/kl/	Independent Environmental Checker for Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities
T601424122/L089	Environmental Permit No. EP-488/2014/A
Mott MacDonald 3/F Manulife Tower	Monthly EM&A Report for September 2024 (Rev. 1)
348 Kwun Tong Road Kwun Tong Kowloon	14 October 2024
Hong Kong	By Email
T +852 2828 5757 F +852 2827 1823	Dear Sir,
mottmac.hk	I refer to the Monthly EM&A Report for September 2024 (Rev. 1) under the captioned Project, which was certified on 14 October 2024 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
	M.

Liz Lo Independent Environmental Checker T +852 2828 5751 Liz.Lo@mottmac.com

Encl.

c.c. DSD Atkins China Limited

> Acuity Sustainability Consulting Limited Build King Civil Engineering Limited

Ir. QIU Yujing, Eugene By Email Ir. Dennis Cheung / By Email Ir. Winnie Choi Mr. Kevin Li By Email Mr. Alvin Lei / By Email Mr. Lawrence Lam







Contract No. DC/2019/07

Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities

38th Monthly Environmental Monitoring and Audit Report – September 2024

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	Reviewed by:	Certified by:
Name	Tandy TSE	Kevin LI
Position	Environmental Team Member	Environmental Team Leader
Signature	L	K.
Date:	14/10/2024	14/10/2024

REVISION HISTORY

REV.	Description of Modification	DATE
0	First Issue for Comments	9 October 2024
1	Updated according to IEC's Comment	14 October 2024

CONTENTS

Exe	cutive Summary	4
1.	Introduction	7
2.	Air Quality	10
3.	Noise	17
4.	Water Quality	22
5.	Waste Management	23
6.	Landscape & Visual	25
7.	Site Inspection Audit	26
8.	Environmental Non-conformance	27
9.	Conclusion	28

Appendix A Location Plan and Noise and Dust Monitoring Stations

- Appendix B <u>Construction Programme</u>
- Appendix C <u>Calibration Certificates (Air Monitoring)</u>
- Appendix D <u>Monitoring Data (Air)</u>
- Appendix E <u>Calibration Certificates (Noise)</u>
- Appendix F <u>Monitoring Data (Noise)</u>
- Appendix G Implementation Schedule
- Appendix H <u>Summary of All Complaints Received, Notification of Summons and</u> <u>Successful Prosecutions</u>
- Appendix I
 EM&A Monitoring Schedules in the Reporting Period and the Next Reporting

 Period (Tentative)
 Period (Tentative)

ii

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 38th 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 to 30 September 2024.
- A.4 Key activities carried out in this reporting period for the Project included the followings:
 - Trial Pit and Ground Investigation
 - Construction of MBR Treatment Facilities
 - MVAC Installation Works
 - Lifting Appliance Installation for Sludge Digestor Building
 - FS Installation
 - Construction of Preliminary Treatment Facilities
 - Laying of Underground Pipes, Utilities and Construction of Manholes
 - Mechanical Installation of MBR
 - Temporary Diversion Works from Inlet Chamber to Preliminary Treatment Facilities
 - Dismantling of Tower Crane "XCMG XT355"
- 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:

	Dust in µg/m³			
Locations	Average		Range	
	TSP-1hr	TSP-24hr	TSP-1hr	TSP-24hr
A1a	66	84	54 - 74	34 - 137
A2a	61	96	53 - 69	48 - 182

Table A – Monitoring Results (Dust)

Table B - Monitoring Results (Noise)

	Noise i	n dB(A)
Locations Average Range		Range
	L _{eq (30 min)} (7:00-19:00)	L _{eq (30 min)} (7:00-19:00)
N2a	70.6	70.2 - 71.0
N3a	70.9	68.8 - 73.3

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 attention 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 According to the EM&A Manual section 4.4.1, baseline water quality monitoring should be carried out prior to the operation of the upgraded Cheung Chau STW to establish a baseline ambient condition. A six-month baseline water quality covering both dry and wet seasons is commenced in June 2024. Baseline water quality monitoring was carried out on 20 and 23 in September 2024.
- A.12 Waste management mitigation measures were properly implemented in the reporting period.
- A.13 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.14 The recommended landscape and visual mitigation measures were properly implemented in the reporting period.

- A.15 Weekly site inspections of the construction work by ET were carried out on 3, 11, 17, 24 and 30 September 2024.
- A.16 No environmental complaint was received during the reporting period.
- A.17 No notification of summons or prosecution was received in the reporting period.
- A.18 A map of the construction site and monitoring locations are shown in <u>Appendix A</u>.
- A.19 The summary of permit / licences for this Project is presented in **Table C** below:

Nature	Number	Issue Date	Expiry Date
Environmental Permit	EP-488/2014/A	13/05/2021	N/A
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	462303	26/11/2020	N/A
Waste Disposal	7039094	7/12/2020	N/A
Billing Account	7040870	9/07/2024	10/10/2024
Chemical Waste Producer	5213-920-B2500-05	31/12/2020	N/A
Effluent Discharge Licence under Water Pollution Control Ordinance	WT00038597-2021	20/08/2021	31/08/2026

Table C - Summary of Permit / Licences

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 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).

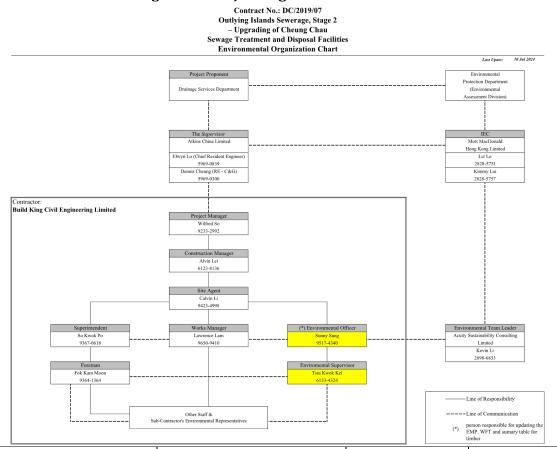
1.2. PROJECT DESCRIPTION

- 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 ORGANIZATION STRUCTURE

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

Figure 1.1 Project Organization Structure



Party	Role	Contact Person	Phone No.
Drainage Services Department HKSAR (DSD)	Project Proponent	QIU Yujiing, Eugene	2594 7298
Supervisor / Supervisor's Representative (Atkins China Limited)	Resident Engineer	Dennis Cheung	2675 3910
Environmental Team (Acuity Sustainability Consulting Limited)	Environmental Team Leader	Kevin Li	2698 6833
Independent Environmental Checker (Mott Macdonald Hong Kong Limited)	Independent Environmental Checker	Liz Lo	2828 5751
Contractor	Site Agent	Calvin Li	9423 4998
(Build King Construction Limited)	Environmental Officer Environmental Supervisor	Sunny Sung Tsui Kwok Kei	9517 4340 6133 4324

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 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
- Construction of MBR Treatment Facilities
- MVAC Installation Works
- Lifting Appliance Installation for Sludge Digestor Building
- FS Installation
- Construction of Preliminary Treatment Facilities
- Laying of Underground Pipes, Utilities and Construction of Manholes
- Mechanical Installation of MBR
- Temporary Diversion Works from Inlet Chamber to Preliminary Treatment Facilities
- Dismantling of Tower Crane "XCMG XT355"

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

- Trial Pit and Ground Investigation
- Construction of MBR Treatment Facilities
- MVAC Installation Works
- Lifting Appliance Installation for Sludge Digestor Building
- FS Installation
- Construction of Preliminary Treatment Facilities
- Laying of Underground Pipes, Utilities and Construction of Manholes
- Mechanical Installation of MBR
- Temporary Diversion Works from Inlet Chamber to Preliminary Treatment Facilities
- Dismantling of Tower Crane "XCMG XT355"

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 summarizing the monitoring results and audit findings of the EM&A programme during the reporting period from 1 September to 30 September 2024.

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 the

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 recognized 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.

Laboratory Measurement / Analysis

- 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 <u>Appendix C</u>.

Equipment	Model	Serial Number
Portable Dust Meter – 1-hour	SIBATA Digital Dust Indicator	2Y6550
TSP	(Model: LD-5R)	2Y6549
High Volume Samplers – 24-	Tisch TE-5170X High Volume	1048
hour TSP	Air Sampler	1085
Calibrator Kit	Tisch TE-5025A Calibration Kit	3465

Table 2.1 Equipment Used for Air Quality Monitoring

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.

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

Table 2.2 Proposed Dust Monitoring Stations

- 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 meters 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.

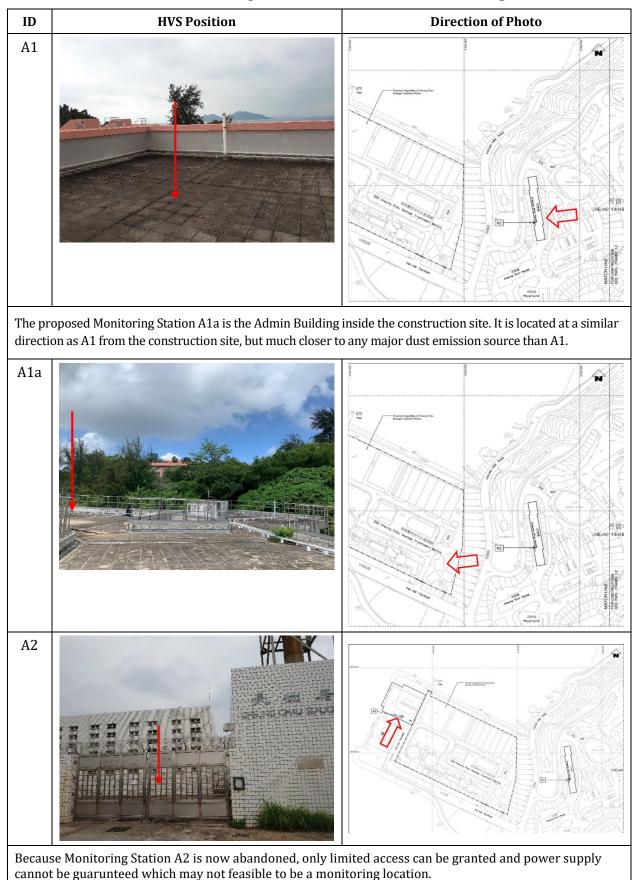


Table 2.3 Photo of Proposed HVS Position at Dust Monitoring Stations

ID	HVS Position	Direction of Photo
A2a		

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.

Tuble 211 Summary of 1 nour 101 Fromtoring Results				
Monitoring Location	Average(µg/m3)	Range(µg/m3)		
A1a	66	54 - 74		
A2a	61	53 - 69		

Table 2.4Summary of 1-hour TSP Monitoring Results

Table 2.5 Summary of 24-nour 151 Monitoring Results	Table 2.5	Summary of 24-hour TSP Monitoring Results
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Monitoring Location	Average(µg/m3)	Range(µg/m3)
A1a	84	34 - 137
A2a	96	48 - 182

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.

Parameters	Action Level	Limit Level
1-hour TSP Level in μg/m³	$\begin{array}{l} \hline For \ baseline \ level \leq 200 \ \mu g/m^3 \\ AL = (BL * 1.3 + LL)/2 \\ \hline For \ baseline \ level > 200 \ \mu g/m^3 \\ AL = LL \end{array}$	260 μg/m³

Table 2.6Action / Limit Levels for Air Quality

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

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

Tuble 2.7 Derived Action / Limit Levels for Am Quanty				
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	260	
24-hour TSP Level	A1a	270	500	
in μg/m ³	A2a	271	500	

Table 2.7 Derived Action / Limit Levels for Air Quality

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.

EVENT	ACTION PLAN FOR CONSTRUCTION DUST			
	ET	IEC	ER	CONTRACTOR
		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. 	1. 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 If exceedance stops, cease additional monitoring. 	 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.

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

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.

Time	Duration	Interval	Parameters
Daytime: 0700-1900 hrs	Once per week	Continuously in L _{eq 5min} /L _{eq 30min} (average of 6 consecutive L _{eq 5min})	L _{eq 5min} , L _{eq 30min} , L ₁₀ & L ₉₀

Table 3.1 Noise Monitoring	Paramotors Ti	imo Fraguancy	and Duration
Table 5.1 Noise Monitoring	raiameters, m	ime, riequency	

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>.

Equipment	Model	Serial Number
Sound Level Meter	SVANTEK 971	C132269
Acoustic Calibrator	Rion NC-75	34524163

Table 3.2 Equipment Used for Noise Monitoring

3.3. MONITORING LOCATION

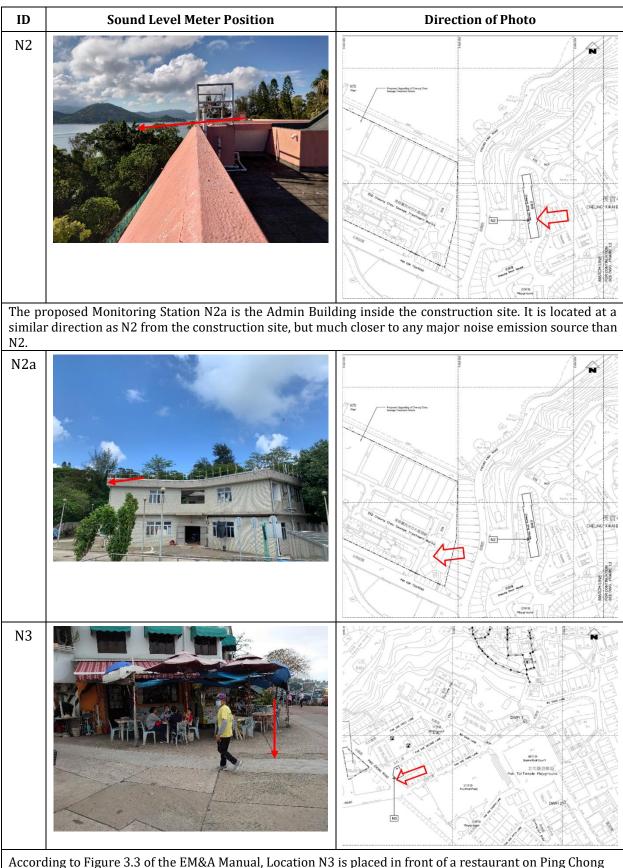
3.3.1 According to the environmental findings detailed in the EIA report, the designated locations for the construction noise monitoring are listed in **Table 3.3** and shown in Figure 3.1 – 3.8 of the EM&A Manual.

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

 Table 3.3 Noise Monitoring Stations for Noise Monitoring

- 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 safer and meets the guidelines and requirements specified in Section 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



Road. It may pose potential danger to pedestrians, cyclists, drivers and the equipment.

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ID	Sound Level Meter Position	Direction of Photo
N3a		en e

3.4. RESULTS AND ANALYSIS

3.4.1 The noise monitoring was carried out in September 2024. The measurement data are shown in <u>Appendix F</u> and summarized in **Table 3.5**.

Monitoring Location	Time Period	Average[dB(A))	Range[dB(A))
N2a	Daytime (0700-1900)	70.6	70.2 - 71.0
N3a	Daytime (0700-1900)	70.9	68.8 - 73.3

Table 3.5 Summary of Noise Monitoring Results

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 3.6Action / 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.

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 Increase monitoring frequency to check the effectiveness of mitigation measures. 	 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 Discuss amongst ET, ER and Contractor on the potential remedial actions; and actuons wnenever 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.

 Table 3.7
 Event and Action Plan for Construction Noise

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 inspections were carried out by the ET on 3, 11, 17, 24 and 30 September 2024. No major deficiency was observed and the implementation of recommended for water pollution control was considered satisfactory.
- 4.3 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 on 12 August 2024 for testing. The test results were under the limitations of the requirements. The quality of the discharge compliant with the requirements of the discharge licence.
- 4.5 According to the EM&A Manual section 4.4.1, marine water quality monitoring should be carried out during the operational phase of the Project is to quantify the variability of pollutant concentrations in the marine waters. Measured pollutant concentrations are to be compared to the relevant Water Quality Objectives and to the baseline data to identify any significant impact on water quality from the operation of upgraded Cheung Chau STW (DP component). Baseline water quality monitoring should be carried out at all monitoring stations prior to the operation of the upgraded Cheung Chau STW to establish a baseline ambient condition.
- 4.6 A six-month baseline water quality covering both dry and wet seasons is commenced in June 2024. Baseline water quality monitoring was carried out on 20 and 23 in September 2024. Water monitoring locations are shown in Table 4.1. Table 4.2 showing the baseline water quality monitoring schedule in September 2024. Any update on the monitoring schedule shall notify the IEC and EPD. A baseline water quality monitoring report will be submitted after finished the baseline monitoring. The baseline water quality monitoring report shall be verified by the IEC.

Locations	Station	Easting	Northing
Cheung Chau STW	w1	820151.20	808236.90
Cheung Chau Wan	w2	820579.40	807761.65
Tung Wan	w3	821221.73	808130.84
Kwun Yam Wan	w4	821469.22	807804.01
Tai Kwai Wan	w5	820493.00	808822.31
Chi Ma Wan	w6	817649.00	811487.00

Table 4.1: Water Quality Monitoring Locations

Month	Dates of Water Sampling	Tidal Period	Sampling Time
	20	Ebb Tide: 11:00 – 16:30 Flood Tide: 04:30 – 11:00	$\frac{12:00 - 15:30}{08:00 - 10:32}$
September	23	Ebb Tide: 14:00 – 18:00 Flood Tide: 07:00 – 14:00	$\frac{14:15 - 17:45}{08:54 - 12:24}$

Table 4.2. Raseline Water	Quality Monitoring Schedule in September 2024
Table 1.2. Dasenne water	Quality Monitoring Schedule in September 2021

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**.



Name of Department : Drainage Services Department	Contract No./ Work Order No. :	DC/2019/07	
	Project Title:	Outlying Islands Sewerage Stage 2 - Upgr	ading 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
	Marine Dumping Permit (Type 1 - Op	oen Sea Disposal):	EP/MD/23-041
	Marine Dumping Permit (Type 2 - Co	onfined Marine Disposal):	EP/MD/23-033

Table 5.1 Monthly Summary Waste Flow Table for 2024 (in Weight)

(All quantities s	hall be rounded off to	3 decimai piaces)								updated on:	30-Sep-2024		
		Actual Quar	ntities of Inert C&D Mater	ials Generated / Imported	(in '000 kg)			Actual Quantities	of Other C&D Materials /	Wastes Generated		Marine	Dumping
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) (bottles/containers, plastic sheets/ foams from package material)	Chemical Waste (h)	Others (i) (e.g. General Refuse etc.)	Type 1 - Open Sea Disposal	Type 2 - Confined Marine Disposal
	[a+b+c+d+e+f+g+h+i)	(a)	(b)	(c)	(d)		(e) (in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in m ³)	(in m ³)
Jan-2024	1588.4400	0.0000	0.0000	0.0000	1563.0000	0.0000	0.0000	0.0000	0.0000	0.0000	25.4400	0.0000	0.0000
Feb-2024	44.9600	0.0000	0.0000	0.0000	18.1200	0.0000	0.0000	0.0000	0.0000	0.0000	26.8400	0.0000	0.0000
Mar-2024	40.6700	0.0000	0.0000	0.0000	18.1100	0.0000	0.0000	0.0000	0.0000	0.0000	22.5600	0.0000	0.0000
Apr-2024	30.2400	0.0000	0.0000	0.0000	24.6400	0.0000	0.0000	0.0000	0.0000	0.0000	5.6000	0.0000	0.0000
May-2024	817.6600	0.0000	0.0000	0.0000	783.0000	0.0000	0.0000	0.0000	0.0000	0.0000	34.6600	0.0000	0.0000
Jun-2024	47.2800	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	47.2800	0.0000	0.0000
Half-year total	2569.2500	0.0000	0.0000	0.0000	2406.8700	0.0000	0.0000	0.0000	0.0000	0.0000	162.3800	0.0000	0.0000
Jul-2024	38.3400	0.0000	0.0000	0.0000	37.5800	0.0000	0.0000	0.0000	0.0000	0.0000	0.7600	0.0000	0.0000
Aug-2024	1909.8500	0.0000	0.0000	0.0000	1855.0000	0.0000	0.0000	0.0000	0.0000	0.0000	54.8500	0.0000	0.0000
Sep-2024	17.6300	0.0000	0.0000	0.0000	0.8500	0.0000	0.0000	0.0000	0.0000	0.0000	16.7800	0.0000	0.0000
Oct-2024		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nov-2024		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Dec-2024		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Yearly Total	4535.0700	0.0000	0.0000	0.0000	4300.3000	0.0000	0.0000	0.0000	0.0000	0.0000	234.7700	0.0000	0.0000

(All quantities shall be rounded off to 3 decimal places)

		Actual Quar	ntities of Inert C&D Mater	rials Generated / Imported	(in '000 kg)			Actual Quantities	of Other C&D Materials /	Wastes Generated		Marine	Dumping
Year	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	Plastic (bottles/containers, plastic sheets/ foams from pockage material)	Chemical Waste	Others (e.g. General Refuse etc.)	Type 1 - Open Sea Disposal	Type 2 - Confined Marine Disposal
	[a+b+c+d+e+f+g+h+i)	(a)	(b)	(c)	(d)		(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in m ³)	(in m ³)
2020	0.0000	0.0000	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	786.3000	0.0000	0.0000	0.0000	0.0000	0.0000	72.0600	0.0000	0.0000
2022	17081.7200	0.0000	0.0000	0.0000	17032.3700	0.0000	0.0000	0.0000	0.0000	0.0000	49.3500	525.0000	203.0000
2023	49757.9100	0.0000	0.0000	0.0000	49610.8700	0.0000	0.0000	0.0000	0.0000	0.2000	146.8400	835.0000	1350.0000
2024	4535.0700	0.0000	0.0000	0.0000	4300.3000	0.0000	0.0000	0.0000	0.0000	0.0000	234.7700	0.0000	0.0000
2025	0.0000												
2026	0.0000												
Total	72233.0600	0.0000	0.0000	0.0000	71729.8400	0.0000	0.0000	0.0000	0.0000	0.2000	503.0200	1360.0000	1553.0000

3) Density of Chemical Waste to be

Remark:

Density of C&D material to be
 Density of General Refuse to be

metric ton/m3 metric ton/m3 0.88 metric ton/m3

Notes:

(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)

1.6

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 realized 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.

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 3, 11, 17, 24 and 30 September 2024. A joint site inspection with IEC was carried out on 30 September 2024.
- 7.2 Environmental deficiencies were observed during weekly site inspections. Key observations during the site inspections and during the reporting period are summarized in **Table 7.1**.

Date	Environmental Observations	Follow-up Status	Reminders
3 September 2024	 Soil should be avoided to spread outside site area. Hoard road should be kept clean. Chemical bottle on- site should be put on drip tray. 	 The loose soil was cleaned up. Chemical bottle was put on drip tray. 	 When working area is dry, water spraying should be applied to avoid dusty condition.
11 September 2024	 Broken Branches on retained tree should be pruned. 	Pending for follow up.	 Contractor was reminded to apply water spraying on dry soil surface to avoid dust nuisance.
17 September 2024	NIL	NIL	 Chemical bottle on-site should be put on drip tray.
24 September 2024	NIL	NIL	 Construction materials should not be stored in tree protection area. Chemical bottle on-site should be put on drip tray.
30 September 2024	NIL	NIL	NIL

Table 7.1 Site Observations

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**.

8. Environmental Non-conformance

- **8.1.** Summary of Exceedances
- 8.1.1 No exceedance of Action and Limit Levels of air quality and construction noise was recorded in the reporting month.
- 8.2. Summary of Environmental Complaint
- 8.2.1 No environmental complaint was recorded in the reporting month.
- **8.3.** Summary of Environmental Summon and Successful Prosecution
- 8.3.1 There was no successful environmental prosecution or notification of summons received since the Project commencement.

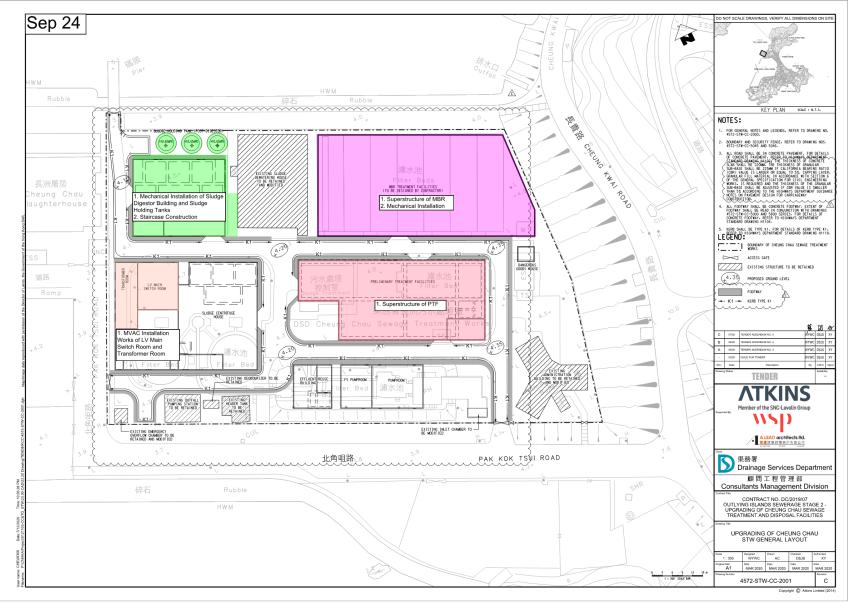
9. CONCLUSION

- 9.1 This is the 38th Monthly EM&A Report for the Project which summarizes the key findings of the programme during the reporting period from 1 to 30 September 2024 in accordance with the EM&A Manual and the requirement under EP-488/2014/A.
- 9.2 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.
- 9.3 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.
- 9.4 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.
- 9.5 A six-month baseline water quality covering both dry and wet seasons is commenced in June 2024 to establish a baseline ambient condition. Baseline water quality monitoring was carried out on 20 and 23 in September2024.
- 9.6 No exceedance of Action or Limit Level was recorded in the reporting period.
- 9.7 No environmental complaint was received in the reporting period.
- 9.8 No notification of summons or prosecution was received during the reporting period.

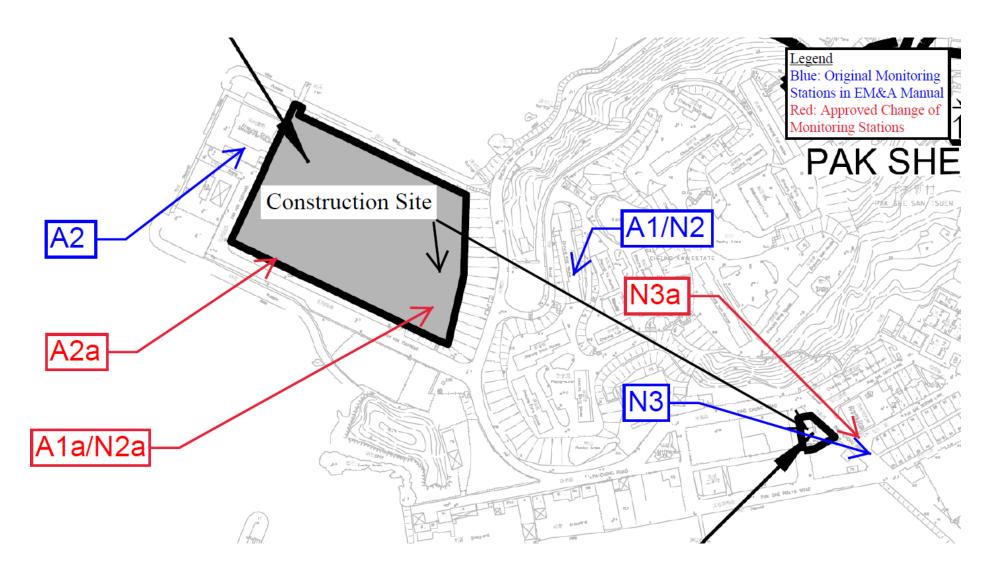
Appendix A

Location Plan and Noise and Dust Monitoring Stations

Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 38th EM&A Report – September 2024



Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 38th EM&A Report – September 2024



APPENDIX B Construction Programme



ity ID	Activity Name	Orl. Dur (d	i) TRA (d)	Time Elapsed %	Actual Workdone 5	Actual Start	Actual Finish	Early Start	Early Finish	Late Start Late Finish	Early Start (Rev. 20)	Early Finish (Rev. 20)	Total Ameni Float Activit	ies Q1	2021	04 0	2022	Q4 07	2023	04 01	2024 Q2 Q3 Q4 C	2025	2026 Q1 Q2 Q3
UTLYING ISL	ANDS SEWERAGE STAGE2 - UPGRADING OF CHEUNG CHAU SEWAGE TREATME	NT AND D	DISPOS	36.4%		27-Nov-20		27-Nov-20 A	05-Feb-27	11-Jun-22 05-Feb-27	27-Nov-20	01-Jan-27	0							-			
Y DATES				100%		27-Nov-20		27-Nov-20 A	05-Fet-28	05-Feb-28 05-Feb-28	27-Nov-20	07-Jan-26	0				111	-		-			-
KD.1010	Contract Starting Date	0	0	100%	100%	27-N:v-21		27-Nov-20 A			27-Nov-20		0 1	27-No	N-20 A			÷/	·		····· ·		
KD.1020	Contract Completion Date	0	0	0%. 100%	03,	22 Hou 22	22. Jun 21	27 May 20 A	05-Feb-26*	05-Feb-26	07 Nov 20	07-Jan-26	0 ^		<u> </u>			(•
CESS DATES KD 1030	Portion A. B. C. D. E. Fand Works Area WA1	0	a	100%	100%	27-Nov-22	03-001-21	27-Nov-20 A	03-JUN-21 A		27-309-20 27-Nov-20	03-301-21		177.AL	20.4			÷)					
KD.1030	Violes Anna WA2	0	0	100%	100%	27-Nov-20		27-Nov-20 A			27-Nov-20			27-N	120 A								
.KD.1040	Works Area WK3	0	0	100%	100%	03-Jun-21		03-Jun-21 A			03-Jun-21			- 60	1 03-J	1-21 A							
ANNED COM	IPLETION DATES			84.35%		29-May-21		29-May-21 A	05-Fob-28	13-May-25 05-Fob-28	29-May-21	16-Ocl-25	0		-		++-	+					-
.KD.1050	Planned Completion of Section 1 (Actual Commencement Bala on 27 Nov 2020)	0	0	100%	103%		29-May-21		29-May-21 A			29-May-21			.					-			
.KD.1069	Planned Completion of Section 2 (Actual Commencement Date on 29 May 2321)	0	0	100%	100%		20-Feb-23		20-Fab-23 A			24-Mar-23	•		111	111	<u>en n</u>	11	•	1		n i i	
KD.1070	Planned Completion of Section 3 (Actual Commencement Balls on 29 May 2021)	0	0	0%	0%				13-Way-251	13-May-25		08-Apr-25	0.					1 1		1		•	
.KD.1080	Planned Completion of Section 4 (Actual Commencement Date on 29 May 2021)	0	0	0%	0%				05-Feb-26*	05-Feb-28		16-Ocl-25	g •									**	<u>·</u>
	CTIONAL COMPLETION DATES			81.42%		28-May-21		29-May-21 A	05-Feb-26	13-May-25 05-Feb-28	28-Feb-22	07-Jan-26	0										
KD 1230 KD 1250	Contract Sectional Completion Date of Section 1 (Actual Commencement Date on 27 Nov 2020) Contract Sectional Completion Date of Section 2 (Actual Commencement Date on 29 May 2021)	0	0	100%	100%		29-May-21 24-Frip-23		29-May-21 A 24-Etb-23 A			28-Feb-22 05-Dec-22					<u>و</u>						
ND.1250 KD.1260	Contract Sectional Completion Date of Section 2 (Actual Commencement Date on 29 May 2021) Contract Sectional Completion Date of Section 3 (Actual Commencement Date on 29 May 2021)	0	0	0%	0%		24+1-60-23		24++t0-23 A 13-Way-25*	13-May-25		05-D60-22 08-Apr-25						11/		1		•	
KD 1270	Contract Sectional Completion Date of Section 4 (Actual Commencement Date on 23 May 2021)	0	0	0%	0%				05-Eeb-26*	05-Feb-28		07-Jan-26	0 .							1		<u>n</u> i i i	
SIGN SUBM	SSION PERMIT			71,37%		27-Ntv-21		27-Nov-20 A	30-0ct-25	03-Jin-24 05-Feb-26	27-Nov-20	25-Sep-25	88				+++	+ [+++++		* I I I I
KD.1090	Prepare/submission of Temporary Drainage and Severage Management Plan to the Supervisor. DSD/HK&land DSD/LDD	106	0	100%	100%	27-Nov-20	12 Mar-21	27-Nov-20 A	12-Mar-21 A		27-Nov-20	12-Mar-21					0.1			1			
KD.1100	Consultation approval of Temporary Drainage and Severage Management Plan by the Supervisor, DSD/HK&I and DSDA.DD	60	0	100%	100%	13-Mar-21	11-May-21	13-Mar-21 A	11-May-21 A		13-Mar-21	11-Msy-21		- 4		111	nni		1	- 1-1		itt itt	
KD.1110	Application/approval of MDN & seeking Marine Dept's approval for loading inloading at passage area near WA2 and PSSPS	170	0	100%	100%	27-N:v-21	15 May-21	27-Nov-20 A	15-May-21 A		27-Nov-20	15-May-21			.		44 <u>4</u>	4 🛛					
(D.1120	Application/approval of TTMS and CNP for highl 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											
(D.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						8					
KD.1140	BM Execution Plan	30	0	100%	100%	27-Nov-20	26-Dec-20	27-Nov-20 A	26-Dac-28 A		27-Nov-20	28-Dec-20											
KD.1150 KD.1160	Proparation and submission of BIMs CoBio/Wesel data deliverables Preparation and submission of fully coordinated as built BIM model	50 25	0	0%	0%			13-Jui-25 12-Auc-25	31-Aug-25 05-Sep-25	18-Dco-25 05-Fob-28 12-Jan-26 05-Feb-28	08-Jun-25 08-Jul-25	27-Jul-25 01-Aup-25	158	_				8 10					
0.1160 0.1170	Preparation and submission of huly coordinated as-cult bina model Preparation and submission of proposal of COBie/Asset information requirements	25	0	0%	0%			12-A0g-25 14-Ap-25	30-Oct-25	12-Jill-25 05-Feb-26 21-Jill-25 05-Feb-26	08-00-25 10-Mar-25	01-7409-25 25-Sep-25	153										
KD.1180	Preparation and submission of Draft Safety Plan	14	0	100%	100%	27-N:v-20	10-Dec-20	27-Nov-20 A	10-Dec-20 A	21-36-23 - 33-186-23	27-Nov-20	10-Dec-20	60							1			
KD.1190	Ottain comments on Draft Safety Plan	14	0	100%	100%	11-Dzo-20	24-Dec-20	11-Dec-20 A	24-Dec-20 A		11-Dec-20	24-Dec-20						8 1					
KD.1200	Preparation and Submission of Safety Plan	7	0	100%	100%	25-Dao-20	31-Dec-20	25-Dec-20 A	31-Dec-20 A		25-Dec-20	31-Dec-20				111	11-1-1	1-1-1			111-1		
KD.1210	Preparation and Submission of Tree Survey Report	111	0	100%	100%	27-Nov-20	17-Ma21	27-Nov-20 A	17-Mar-21 A		27-Nov-20	17-Mar-21								1			
KD.1220	Optain Discharge License by Client	1	0	D%	0%			03-Jun-24	03-Jur-24	03-Jun-24 03-Jun-24	19-Feb-24	19-Feb-24	0					1		- T			
CTION 1				100%		27-Nov-20	18-Nov-21	27-Nov-20 A	18-Nov-21 A		27-Nov-20	16-Nov-21						11				1.1.1	
	ROPOSAL 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				Π.	4	1. A.					
chnical Prope C.S1.1010	sal for Preliminary Treatment System at CCSTW	10	0	100%	107%	03-Jun-21 03-Jun-21	18-Nov-21	03-Jun-21 A 03-Jun-21 A	18-Nov-21 A 12-Jun-21 A		03-Jun-21 03-Jun-21	18-Nov-21 12-Jun-21						8 I V					
C.S1.1020	Preparation and approval of content page Preparation of protections report inclusion inclusion and field of protection approaches, "accumulated	25	0	100%	107%	13-Jun-21	12-Jun-21 07-Jul-21	13-Jun-21 A	07-Jul-21 A		13-Jun-21	07-Jul-21			Ë. I								
C.S1.1030	Preparation of besign report including design intention and list of besign parameters / assumptions Proparation of process calculation and equipment sizing	25	0	100%	107%	08-Jul-21	01-Aug-21	05-Jul-21 A	01-Aug-21 A		08-Jul-21	01-Aug-21											
C.S1.1040	Preparation of ceneral layout and equipment location clan	20	0	100%	100%	02-Aug-21	21-Aug-21	02-Aug-21 A	21-AL9-21 A		02-Aug-21	21-Aug-21					11						
C.S1.1050	Preparation of control philosophy	9	0	100%	100%	22-Aug-21	30-Aug-21	22-Aug-21 A	30-ALg-21 A		22-Aug-21	30-Aug-21			H								
C.S1.1060	Preparation of remaining content of technical prosposial	18	0	100%	100%	31-Aug-21	18-Sep-21	31-Aug-21 A	18-Sep-21 A		31-Aug-21	18-Sep-21			1							1 1 1	
C.S1.1070	Diat Sutmission	0	0	100%	100%		18-Sep-21		18-Sep-21 A			18-Sep-21					11 1	8 8					
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Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 38th EM&A Report – September 2024



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DC 52.1010x40	Procurement (VSD)	1	0	100%	Workdone % 100%	28-Jan-22	26-Jac-22	26-Jan-22 A	26-Jan-22 A	20) 23-Jan-21	(Rev. 20) Float Activities 23-Jan-21	Q1 02	03 04	01 02	03 04	02 03	Q4 Q1	02 03	04 01 0	2 03 04 0	Q1 Q2 Q3 Q4
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DC S2 10105	Fabrication (Other equipment)	253	0	100%	100%	28-Feb-22	07-Nov-22	28-Feb-22 A	07-Nov-22 A	28-Fe0-22	07-Nov-22			-							
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DC S2.1010530	Fabrication (DOU)	2'4	0	100%	100%	30-May-22	29 Dec-22	30 May 22 A	29-Dec-22 A	30-May-22	29 Dec-22								1.00		
DC S2.1010540	Fabrication (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								£ 1		
DC S2.1010850	Fabrication (Flowmeter)	122	0	100%	100%	20-May-22	18-Sep-22	20 Aday-22 A	18-Sep-22 A	20-May-22	18-Sep-22							/1 /1 1	£ 1		
DC S2.1010660	Esbrication (FRP Cover of Screw Pump)	277	0	98.56%	88.45%	31-May-22		31-May-22 A	03-Har-23 28-Feb-23 03-Har-23	31-May-22	18-Dec-22 0			- La	-	1			£ 1		
DC S2.1010670	Fabrication (LVSB)	90	0	100%	100%	10-May-22	07-Aug-22	10-May-22 A	07-ALg-22 A	10-May 22	07-Aug-22			-	- `	V 1					
DC S2.1010t80	Fabrication (FLC)	142	0	100%	100%	10-May-22	28-Sep-22	10 May 22 A	28-Sep-22 A	10-May-22	28-Sep-22		1111	-		1			(
DC S2.1010c	Delivery (Other equipment)	30	0	100%	100%	08-Nov-22	07-Dec-22	05-Nov-22 A	07-Dec-22 A	08-Nov-22	07-Dec-22								£ 1		
DC SZ 1010c10	Delivery (Scree Purp)	94	0	100%	100%	33-Apr-22	01-AJQ-22	30-Apr-22 A	01-Aug-22 A	30-Apr-22	0'-Aug-22			-							
DC S2.1010:20	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			-							
DC S2.1010:30	Delivery (DOU)	39	0	100%	100%	30-Dec-22	06-Feb-23	30-Dec-22 A	06-Feb-23 A	30-Dec-22	28-Jan-23					1			1		
DC S2.1010:40	Delivery (VSD)	34	0	100%	100%	08-Jun-22	12-Jul-22	09-Jun-22 A	12-Jul-22 A	08-Jun-22	12-Jul-22			114					1	1.1	
DC S2.1010:50	Delivery (Flowmeter)	21	0	100%	100%	30-Sep-22	20-Oct-22	30-Sep-22 A	20-0ct-22 A	30-Sep-22	20-Oct-22				-				4 E		
DC S2.1010:60	Delivery (FRP Cover of Screw Pump)	12	0	0%	0%			04-Mar-23	15-Har-23 D4-Mar-23 15-Mar-23	19-Dec-22	24-Jan-23 0 *				۲.				1		
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				# I				4 E		
DC S2.1010:90	Delirery (PLC)	42	0	100%	100%	30-Sec-22	10-Nov-22	30-Sep-22 A	10-Nov-22 A	30-Sep-22	10-Nov-22								L.	. i . i	
CIVIL AND STI				100%		27-Nov-20	13-Scp-22	27-Nov-20 A	13-Stp-22 A	27-Nov-20	13-Sep-22		TH						(T		
Modification of	emergency by-pass			100%		27-Nov-20	13-Sep-22	27-Nov-20 A	13-Sep-22 A	27-Nov-20	12-Sep-22		TH					/1 H L	£ 1		
DC.S2.1020	Expose and install protectsupport system for existing underground utilities and services (HGC, CLP,etc)	25	2	100%	100%	29-Jun-21	03-Aug-21	29-Jun-21 A	03-ALg-21 A	29-Jun-21	03-Aug-21		•						e 11		
DC.S2.1021	Delivery of percast concrete pipe and monhole littings	35	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 tasting for percast concrete pipe and manhole fittings	30	0	100%	100%	04-Jan-21	02-Feb-21	84-Jan-21 A	02-Feb-21 A	04-Jan-21	02-Feb-21								6 l		
DC.S2.1030	Installation of ELS for TTA Stage 1 and construction of 750 dia, emergency bypass and 3 manholes (6PMH01,02804)	80	10	100%	100%	04-Aug-21	19-Nov-21	04-Aug-21 A	19-Nov-21 A	04-Aug-21	19-Nov-21		4								
DC.S2.1031	Backfilling, Removal of Temporary Supports and Reinstatement of Footpath at Ping Chong Road	29	3	100%	100%	20-Nov-21	21-Dec-21	20-Nov-21 A	21-Dec-21 A	20-Nov-21	21-Dep-21		14	o					£ 1		
DC.S2.1040	Implementation of TTA Stage 2 to enclose works area of manifole BPMH03	6	9	100%	100%	20-Nov-21	26-Nov-21	20-Nov-21 A	26-Nov-21 A	20-Nov-21	26-Nov-21		14	_					1		
DC.S2.1050	Installation of ELS and construction of 750 dia, amargency bypasis 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		
DC.S2.1070	Backfilling, Removal of Temporary Supports and reinstatement of existing road at Ping Chorg Road	28	2	100%	100%	25-Jan-22	03-Ma-22	25-Jan-22 A	03-Mer-22 A	25-Jan-22	03-Mar-22								e 1		
DC.S2.1080	Pipe CCTV survey, application manhole protective coat, capping and sealing of existing bypass and final connection works	2'	1	100%	100%	05-May-22	31-May-22	05 May-22 A	31-May-22 A	05-May-22	31-May-22			-							
DC.S2.1150	Submission of as-constructed records after completion of permanen: reinstatement of the footpath	14	0	100%	100%	04-Mar-22	13-Sep-22	04-Mar-22 A	13-Sep-22 A	04-Mar-22	13-Sep-22			-				111	£ 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			-							
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DC SZ 1085a	Perparation and Submission of TTA Drawings for Pump Replacement Works	154	0	100%	100%	20-06-21	22-Apr-22	20-0cl-21 A	31-Vor-23 28-Feb-23 31-Vor-23 22-Apr-22 A	20-0cl-21	24-Mar/23 0 17-Jan-22		1								
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DC 82.1085a DC 82.1085b DC 82.1085c	Ociain Approval of TTA Drawing from relevant parties Implementation of TTA for Punic Replacement Works	30 11	0	100% 100% 100%	100% 100%	29-Apr-22 24-Jun-22	28-May-22 04-Jul-22	20-0:1-21 A 29-Apr-22 A 24-Jun-22 A	28-May-22 A 04-Jul-22 A	20-0ci-21 29-Apr-22 24-Jun-22	28 May-22 24 Jun-22		-								
DC SZ 10858 DC SZ 10856 DC SZ 10856 DC SZ 10856 DC SZ 10908	Obtain Approval of TTA Drawing from relevant parties		0 0	100% 100% 100% 100%	100% 100% 100%	29-Apr-22 24-Jun-22 18-Jul-22	28 May-22 04 Jul-22 13-Aug-22	20-0cl-21 A 29-Apr-22 A 24-Jun-22 A 19-Jul-22 A	28-May-22 A 04-Jul-22 A 13-Aug-22 A	20-0cl-21 29-Apr-22 24-Jun-22 19-Jul-22	28 May-22 24 Jun-22 13-Aug-22		-								
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y ID	Activity Name	Ori. Dur (d)	TRA (d)	Time Elapsed N	Actual Workdone S	Actual Start	Actual Finish	Early Start	Early Finish	Lose Start	Late Finish	Early Start (Rev.	Early Finish (Rev. 20)	Total Float	Amended		2021		2022	-	2023		2024		2025	2	2026
C 62.1152	Installation of MCPs and related cable termination	2'	0	100%	Workdone S 100%	06-Sec-22	30-Sep-22	06-Sep-22 A	30-Sto-22 A			20) 06-Sep-22	(Rav. 20) 30-Sep-22	FIGHT	ACIMILIES		2 UJ		uz us		uz 03 04		42 03 0	19 01 C	<u>az 03 04</u>	- Q1 Q2	03 0
32,1155	Installation of Level Encircle	14	0	100%	100%	64-Jan-23	17-Jan-23	64-Jan-23 A	17-Jan-23 &			04-Jan-23	17-Jan-23						1.1		- L						
S2.1160b05	Submission of Dealt G&M manual	123	0	100%	100%	81-Jul-22	11-Nov-22	31-Jul-22 A	11-Nov-22 A			31-Jul-22	07-Dec-22			11		111	- 4-				++++				
SZ.1160b10	Submission of Final OSM manual	85	0	100%	100%	30-Nov-22	22-Feb-23	30-Nov-22 A	22-Feb-23 A			30-Nov-22	07-Eeb-23							-	- E						
3.52.1160±20	OSM Training in DSD/ST2	15		DN.	P34			09-Mar-23		DS-Mar-23	23-blae-23	08-Feb-23	12-Eeb-23	0										1			
C SZ 1160525	Installation of DOU6 and SAT	45	0	39.12%	39%	07-Feb-23		07-Feb-23 A	31-Har-23	28-Feb-23	31-b/ar-23	3C-Jan-23	22-Mar-23	0	•					. 44	<u>i (</u>						
C SZ 1160630	Handover Inspection with DSD/ST2	1	0	0%	0%			29-Mar-23	30-Har-23		29-Mar-23	22-Mar-23	22-Mar-23	0	•												
DC S2.1160640	30-cay commissioning for the screw pumping system	32	0	100%	100%	20-Jan-23	20-Feb-23	20-Jan-23 A	20-Feb-23 A			23-Feb-23	24-Mar-23		•					- 4 .							
OMPLETION	OF SECTION 2			0%		20-Feb-23	20-Feb-23	20-Feb-23 A	20-Feb-23 A			24-Mar-23	24-Mar-23														
DC SZ.1170	Completion of Section 2 (Working Days)	0	0	100%	107%		20-Feb-23		20-Feb-23 A				24-Mar-23		•						1						
ECTION 3				50.52%		27-Nov-20		27-Nov-20 A	13-May-25	11-Jin-22	13-Way-25	27-N09-20	02-Oct-25	0										_	•		
HASE 1 - Con	struction of MBR, Sludge Disgestor Building, Transformer Room			81,19%		27-Nov-20		27-Nov-20 A	02-Aug-24	28-Feb-23	02-Aug-24	27-Nov-20	19-Apr-24	0				ULU			L.						
DC S3.1001	Baseline Mointoring for Air and Noise	21	0	100%	100%	21-Jun-21	11-Jul-21	21-Jun-21 A	11-Jul-21 A			21-Jun-21	11-Jul-21			I I II		nn					THE				
	echnical Proposal			100%		29-May-21	15-Jun-21	29-May-21 A	15-Jun-21 A			26-Mar-21	02-Dec-21				7						1111				
DC.S1.1100	Acceptance of Technical Proposal of Profininary Treatment System at COSTW	13	0	100%	100%	91-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			19-Nov-21	02-Dec-21					Η									
DC.81.1200	Acceptance of Technical Proposal for MBR System and MBR Building at CCSTW (E8M)	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			26-May-21	08-Jun-21								1						
DC.81.1205	Acceptance of Technical Proposal for MBR System and MBR Building at CCSTW (Civil & Structural)	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jan-21 A	14-Jun-21 A			30-Apr-21	13-May-21														
DC.S1.1300	Acceptance of Technical Proposal for Sludge Treatment System at CCSTW	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			26-May-21	08-Jun-21				1				- E						
DC.S1.1400	Acceptance of Technical Proposal for Electrical Works at CCSTW	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			26-May-21	08-Jun-21				.										
DC.S1.1450	Acceptance of Technical Proposal for Temp. Works Design for the 1s13 months of ECIS2	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			24-May-21	30-May-21														
DC.S1.1470	Approval of Technical proposal for accommodation of co-office	3	0	100%	100%	29-May-21	01-Jun-21	29-May-21 A	01-Jun-21 A			26-\dar-21	29-May-21														
DC.S1.1570	Acceptance of Technical Proposal for DIMA including application of prefabrication of NiC IIC Office	14	0	100%	103%	01-Jun-21	15-Jun-21 29-Jun-21	01-Jun-21 A 02-Jun-21 A	15-Jun-21 A 29-Jun-21 A			30-Jun-21 24-Mar-21	14-Jul-21				1 11										
nstallation of N DC S1 1580c	IIC Office Delivery of Modules for MIC Co-Office	4	0	100%	100%	02-Jun-21 02-Jun-21	29-Jun-21 07-Jun-21	02-Jun-21 A 02-Jun-21 A	29-Jun-21 A 07-Jun-21 A			24-Mar-21 24-Mar-21	14-Jul-21 29-Mar-21								-						
DC.S1.1580c	Installation of MiC Co-Office	4	2	100%	100%	02-Jun-21 04-Jun-21	29-Jun-21	02-Jun-21 A 04-Jun-21 A	29-Jun-21 A			24-Mar-21 19-Jun-21	29-Mar-21 14-Jul-21								1						
Tranplanting W		10	2	100%	10078	15-Jan-22	29-JUN-21 24-Non-22	15-Jan-22 A	29-JUN-21 A			15-Jan-22	14-30-21 24-Nm-22							-							
DC.S3.1010s	Subjecting of Tree Transplant	4	0	100%	100%	15-Jan-22	20-Jan-22	15-Jan-22 A	20-Jan-22 8			15-Jan-22	28-Feb-22					44			1						
DC.S3.10108	Subecing of theel transplans Root prunning and Preparation Works for Transplanting	123	2	100%	100%	04-Apr-22	20-Jan-22 17-Sep-22	B4-Apr-22 A	17-Sep-22 A			01-Apr-22	28-Peb-22 17-Sep-22				++++	ΗÆ		- - - -			+-+		-+-+-		
DC 53 1020	Transplaning works	2	1	100%	100%	22-Nov-22	24-Nov-22	22-Nov-22 A	24-Nov-22 A			22-Nov-22	24-Nov-22							-							
	Monitoring System (Remaining Works)	-		87%		27-N:w-20	21110.22	27-Nov-20 A		28-Eeb-23	30-Jun-23	27-Nov-20	07-Eeb-23	0							-						
DC.S1.1620510	Complete all trial installation of monitoring devices and sensors and submittan installation Report for trial inst.	235	4	100%	102%	27-Nov-20	24-Jun-21	27-Nov-20 A	24-Jun-21.8			27-Nov-20	10-Jun-21				•										
DC.S1.1620c10	Presatation and submission of Draft Transmission Specification	196	0	100%	100%	27-Nov-20	10-Jun-21	27-Nov-20 A	10-Jun-21 &			27-Nov-20	10-Jun-21														
DC.S1.1620c10	Completion of installation of monitoring devices and sensors and submission of Installation report	720	0	87.08%	80%	11-Jun-21		11-Jun-21.A		28-Feb-23	31-May-23	11-Jun-21	28-Sep-22	0			-				-						
DC.S1.1620e10	Completion testing of data transmission and compatibility to DSD's Data Information System	29	1	0%	0%			01-Jun-23	30-Jur-23	01-Jun-23		08-Jan-23	07-Feb-23	0					\sim		i 🖬 🕴 👘						
CDS for Optimi	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														
DC.S3.1050	Structural Design Review After Completion of Predrilling Works (Phase 1)	75	0	100%	100%	31-May-21	09-Aug-21	31-May-21 A	09-ALg-21 A			30-May-21	08-Aug-21			11	-			N	1						
DC.S3.1060	ICE Checking and issuance of ICE certificate	7	0	100%	100%	10-Aug-21	16-Aug-21	10-Aug-21 A	16-ALg-21 A			10-Aug-21	16-Aug-21			11 1	-										
Set Up of Tower	Crane			DS-				04-Mar-23	15-Jul-23	04-Mar-23	03-Aug-23			19							-		T T T		1 1		1 1
DC.S3.1070	Subjetting of Tower Grane Erection	35	0	0%	0%			04 Mar 23*	21-Apr-23	04-Mar-23	21-Apr-23			0	•					. 🗖							
DC.S3.1070a	Design and Approval of Tower Grane	25	0	0%	0%			22-Apr-23	19-h/ay-23	12-May-23				20	•					-1							
DC.S3.1070b	Pile Foundation Construction of Tower Crane	34	0	0%	0%			20-Vay-23	30-Jun-23		20-Jul-23			16	•						-		1.111				
DC.S3.1070c	Erection of Tower Orane	12	0	0%	0%			03-Jui-23			03-Aug-23			16	•						-		h in the				
	MBR Treatment Facilities			57.21%		01-Apr-21		01-Apr-21 A	02-Aug-24		02-Aug-24	01-Apr-21	19-Apr-24	0		ΙТ					- C						
	vrication and Delivery of Major E&M Equipment			58,57%		12-Jul-21		12-Jul-21 A	02-May-24	17-Mar-23	19-May-24	28-Aug-21	29-Oct-22	17													
DC.S3.1075a DC.S3.1075b	Tencering of Subcontrator	45	0	100% 84.77%	100%	12-Jul-21 15-Oct-21	26-Aug-21	12-Jul-21 A 15-Oct-21 A	26-ALg-21 A	20-Mar-23		28-Aug-21 15-Oci-21	14-Oct-21 29-Oct-22								<u> </u>						
DC.83.10755	Equipment Submission and Approval	591	0	84.77% 0.65%	70%	15-Oct-21 01-Nov-22		15-001-21 A 01-Nov-22 A		20-Mar-23 28-Jul-23	17-Jun-23 25-Doc-23	15-OcH21	29-061-22	20							<u> </u>						
120.00 4000-40	Membrane Modules		0	100%	100%	01-Nov-22 01-Nov-22	01-Nov-22	01-Nov-22 A	01-Aug-23 01-Nov-22 A	20-30-23	25-000-25			140													
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	Aeration Biovers & Air Scouring Blovers	1	0	0%	0%		~~ 100 ~~ 2	01-Mar-23*		27-Aug-23	27-Aug-23			179						II II							
	Fine Butble Diffuser	1	0	0%	0%			01-Mar-23*	01-May-23	27-ALQ-23				118	•						1						
	Permesa Pumps	1	0	0%	0%			01-May-23*	01-May-23	27-ALQ-23				118				++++		de HE	j-i-t-						a far af a
DC.S3.1080u16		1	0	D%	0%		-	01-May-23'	01-May-23		27-Aug-23			118							1						
DC.S3.1080u17		1	0	D%	0%			01-May-23*		27-Aug-23				118	•						1 1						
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	Soum Skimming Devices	1	0	0%	0%			01-May-23*	01-May-23		28-Jul-23			88	•						1			1			
	Citric Acid Storage & Dosing System	1	0	0%	0%			01-May-23*	01-May-23		28-Jul-23			88	•						1						
	Socium Hypochlorite Storage & Dosing System	1	0	0%	0%			01-May-23*	01-May-23		28-Jul-23			88	•						1						
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	SS31E Pipework (For Art)	1	0	D%-	0%			01-Jun-23*	01-Jur-23	19-Nov-23	19-Nov-23			171	•						<u>ا</u> ا						
DC.S3.1080a25	Fibre Gasket for Air Fipework	1	0	D%-	0%			01-May-23*	01-May-23	20-Ocl-23	20-0cl-23			172	•		Th			11111	1		111-1				
	DI Fipowork (For Sevege)	1	0	0%	0%			01-May-23*			20-0cl-23			172	•					1	4				1.1		
DC.S3.1080a27	uPVC Pipework	1	0	0%	0%			01-May-23*	01-May-23	20-Oct-23	20-0ct-23			172	•					1	1 5		1111				
	uPVC Pipevork (Double Containment)	1	0	0%	0%			01 May-23*	01-May-23	20-Oct-23	20-0ct-23			172	•				10	. -‡	1 1		1 1 1				
	Valves for Process Pipework (For Sewage and Air)	1	0	0%	0%			01-Apr-23*	01-Apr-23		28-Jul-23			118	•			UUU									
	Actuator for Valves	1	0	0%	0%			01-May-23*		27-ALg-23				118	*		T					TT		1			
DC.S3.1080e31	Deodorisation System Unit 2	1	0	DN-	0%			01-Jun-23*	01-Jur-23	26-Sep-23	26-Sep-23			117				ШШ			L Ì						
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	nary Baseline	DC/204	0/07 0				ACE STA	GE2 - UPG						MENT	AND D	ISBOS	AL 54		IES		Date		Revis	sion	Chec	c A	Approv
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Acti		00/201	3,01 0						AMME -											31-		2 R6					



D	Activity Name	Ori. Dur (d)	TRA (d)	Time Elapsed N	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. 20)	Early Finish (Rev. 20)	Total Amend Float Activiti	d	2021			2022		21	23	_	2024	_	2025		2026
DC S3.1080432	LV Switchboard and Motor Control Panels	1	0	0%	Workdone % D%			01-Jul-23*	01-Jul-23	26-Oct-23	26-Dct-23	20)	(Rav. 20)	Float Activiti	s Q1	02 0	13 04	01	Q2 Q3	04	Q1 Q2	03 04	01 0	2 Q3 Q	<u>14 01</u>	02 03	Q4 Q1	Q2 Q3 0
DC.S3.1080e33		1	0	0%	036			01-Jun-23*	01-Jur-23		25-Dec-23			207 *					1		15	1						
DC.S3.1080e34	UPS with Isolation Transformer	1	0	0%	0%			01-Jun-23*	01-Jur-23		26-Sep-23			117 *								200						
DC.S3.1080u35	PLC Parel	1	0	D%-	0%			01-Aug-23*	01-Aug-23	26-Sep-23	26-Sep-23			56 `			111	1111	1			1 <u> </u>			1			
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Febrication				24.34%		01-Nov-22		01-Nov-22 A	03-Har-24	17-Mar-23	20-Mar-24			17						T	1	1						
	Membrane Modules	489	0	24.34%	24%	01-Nov-22		01-Nov-22 A	03-Mer-24*		20-Mar-24			17 118						T			PU					
DC.S3.1080611	Per stocks Submersible Movers	135	0	0% 22.18%	0% 22%	02-Jan-23		02-May-23* 02-Jan-23 A		28-Asg-23 24-Jun-23				118	-					4		T,						
	Aeration Biovers & Air Scouring Biovers	135	0	22.15%	0%	02-341-23		02-May-23*		28-AL0-23				118 *							-			. 11 1				
	Fine Butble Diffuser	135	0	0%	0%			02-May-23*		28-ALQ-23				118 *							-							
DC.S3.1080u15		125	0	DN-	0%			02-May-23*		28-Aug-23				118							-	- i						
DC.S3.1080u16	Drain Pumps	125	0	DS-	0%			02-May-23*	13-Sep-23	28-Aug-23	09-Jan-24			118														
DC.S3.1080u17		125	0	DS-	0%			02 May-23*		28-Aug-23				118											1			
DC.S3.1080618		185	0	0%	0%			02-Apr-23*		29-Jil-23				118														
	Sourn Skimming Devices	185	0	0%	0%			02-May-23*		29-Jul-23				88	_							- de						
	Citric Acid Storage & Dosing System	185	0	0%	0%			02-May-23*		29-Jul-23	09-Jan-24 09-Jan-24			88 * 88 *								1						
DC.S3.1080621 DC.S3.1080622	Socium Hypochicrite Storage & Doaing System	165	0	0% 0%	0%			02-May-23* 02-May-23*	13-Oct-23 13-Oct-23	29-Jul-23 21-Sep-23				142 1			111				-					+		
	Dupler, Stain ess Steel Air Scouring System	135	0	0%	0%			024089-231	13-Seo-23		09-Jan-24			118 *						51		- E			1	1.1		
	SS31E Pipework (For Art	125	0	0%	03.			02-Jun-23*		20-Nov-23	03-b/ar-24			171							-0							
	Fibre Gastet for Air Pipework	125	0	DS-	03.			02-May-23*		21-Oct-23	03-Mar-24			172							-							
DC.S3.1080x26	DI Pipework (For Soviage)	135	0	0%	0%			02-May-23*	13-Sep-23	21-0:1-23	03-Mar-24			172 *														
DC.S3.1080x27		135	0	0%	0%			02-May-23*		21-Oct-23	03-Mar-24			172 *														
	uPVC Pipevork (Double Containment)	135	0	0%	0%			02 May-23*		21-0ct-23	03-Mar-24			172						1		H						
	Valves for Process Pipework (For Sewage and Air)	185	0	0%	0%			02-Apr-23		29-Jul-23	09-Jan-24			118			111				1							
	Actuator for Valves	125 105	0	0%. 0%.	0%, 0%,			03-May-23* 02-Jun-23*		28-ALg-23	09-Jan-24 09-Jan-24			117 ^ 117 ^							11							
	Deciderisation System Unit 2 LV Switchcoard and Motor Control Panels	100	0	D%	0%			03-Jul-23		27-Sep-23 27-Oct-23				117 *														
DC 53.1080432		30	0	0%	0%			03-a0-23 02-Jun-23*		27-00-23 26-Dec-23				207 *	_													
	UPS with Isolation Transformer	105	0	0%	0%			02-Jun-23*		27-Sop-23				117 *	-						4							
DC.S3.1080635		105	0	0%	0%			02-Aug-23*		27-Sep-23				56 *							-	-						
DC.S3.1080536		105	0	0%	0%			02-Aug-23*		27-Sep-23				56 *							111	-						
Dolkery				0%				02-Jui-23	02-May-24	10-Jan-24	19-blay-24			-17			111	101				i li	++					
	Membrane Modules	60	Ð	0%	0%			04-Mar-24		21-Mar-24				17 *														
DC.S3.1080e11		32	0	0%	0%			14-Sep-23	13-Oct-23					118 *								12						
	Submensible Motors	30 30	0	0%	03,			16-Sep-23	15-Oct-23	10-Jtn-24	08-Feb-24			116	_							1						
	Auration Biovers & Air Scouring Biovers Fine Butble Dillus or	30	0	D% D%	0%			14-Sep-23 14-Sep-23	13-Oci-23 13-Oci-23	10-Jan-24 10-Jan-24	08-Feb-24 08-Feb-24			118					e na finan a			-						
DC.SJ 1080c14		30	0	0%	0%			14-Sep-23	13-Oci-23		08-F0b-24			118 *								-6						
DC.S3.1080c16		30	a	0%	0%			14-Sep-23		10-Jan-24	08-Feb-24			118 *								-6				1.1		
DC.S3.1080c17		30	0	0%	0%			14-Sep-23	13-Oct-23		08-Feb-24			118					1						- 1			
DC.S3.1080c18		30	0	0%	0%			14-Sep-23	13-Oct-23		08-Feb-24			118								-						
DC.S3.1080a19	Soun Skimming Devices	32	0	0%	0%			14-Oct-23	12-Nov-23	10-Jan-24	08-Feb-24			* 68			1111	111	1			1						
	Citric Acid Storage & Dosing System	32	0	DN-	0%			14-3ct-23	12-Nov-23	10-Jan-24	38-Feb-24			58 '								1						
	Socium Hypochlorite Storage & Desing System	30	0	D%-	0%			14-Oct-23	12-Nov-23		08-Feb-24			58 1														
DC.S3.1080c22		30	0	D%	0%			14-0cl-23		04-Mar-24	02-Apr-24			142								I	t					
	Duptex Stan cas Stot Air Scouring System	30	0	0%	0%			14-Sep-23	13-OcI-23 14-Oc1-23	10-Jan-24 04-Mar-24	08-Feb-24			118 *	-							-						
	SS318 Pipework (For Air) Fibre Gaster for Air Pipework	30	0	0%	0%			15-Sep-23 14-Sep-23	14-Oc1-23 13-Oc1-23					1/1 *			111			1		-						
	Di Pipevork (For Sevage)	30	0	0%	0%			14-Sep-23	13-Oct+23	04-Mar-24				172 *								-						
DC.S3.1080c27		30	0	0%	0%		-	14-Sep-23	13-Oct-23	04-Mar-24				172 *								-						
	uPVC Pipevork (Double Containment)	30	0	DN-	0%			14-Sep-23		04-Mar-24	02-Apr-24			172 *						1		-						
DC.S3.1080c29	Valves for Process Pipework (For Servage and Air)	30	0	DS-	0%			14-Sep-23	13-OcI-23	10-Jan-24	38-Feb-24			118	1	TH I	1111	1111	1	1		-	111	111	- T	111		
	Actualizer for Valves	30	0	DS-	0%			15-Sep-23	14-OcI-23		08-Feb-24			117								-1						
	Deodorisation System Unit 2	30	0	0%	0%			15-Sep-23	14-OcI-23		08-Feb-24			117														
	LV Switchoostd and Motor Control Panels	30	0	0%	0%			18-Sep-23	15-Oct-23		08-Feb-24			116			111				I L	. T						
DC.S3.1080c33		15	0	0%	0%			02-Jui-23	16-Jul-23	25-Jan-24	08-Feb-24			207 *		HU						1	###					
DC.S3.1080c34 DC.S3.1080c35	UPS with isolation Transformer EV C Recoil	30	0	0% 0%	0%			15-Sep-23 15-Nor-23	14-Oct-23 14-Dec-23	10-Jan-24 10-Jan-24	08-Feb-24 08-Feb-24			56 *								-						
DC.S3.1080635 DC.S3.1080636		32	0	0%	0%			15-\0+-23	14-Dec-23					56 1			111					-						
International W				65,54%		01-Apr-21	-	01-Apr-21 A	29-Feb-24		29-Feb-24	01-Apr-21	30-April-23	0					-	-			╇╋					
	She Preparation Works for Piling (including relocation of Existing Studge Storage Sheller)	23	4	100%	100%	31-May-21	03-Jul-21	31-May-21 A	03-Jul-21 A			31-May-21	03-Jul-21			H	Ш	411										
	Substring of Pling Works	48	0	100%	100%	01-Apr-21	29-May-21	01-Apr-21 A	29-May-21 A			01-Apr-21	29-May-21			₩Ű	111		-	1								
	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			₩.				5 L								
	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-borec socket H-piles (67 ros, dis610)	90	5	100%	100%	07-Oct-21	31-Jan-22	07-Oct-21 A	31-Jan-22 A			07-Oct-21	31-Jan-22				1 T											
	Design and File Loading Test of Compression Pile	54	3	100%	100%	31-Jan-22	12-Apr-22	31-Jan-22 A	12-Apr-22 A			28-Fed-22	11-Msy-22			ļļ.	111	100		j	.		###			-4-4		
		1	2	100%	100%	26-Sep-22	29-Sep-22	26-Sep-22 A		-		08-Sep-22	21-Sep-22					18. I	1.									
DC.S3.1113a	Pile Loading Test of Compression Pile			100%	100%	19-Mar-22	24-Ma-22	19-Mar-22 A	24-Mar-22 A			17-Mar-22	24-Mar-22		11	1000	1111	11585		6 I.								
DC.S3.1110a	Pie Loadig Lesi d'Ompression Pie Prod Drill	3														1.1.1.1	4	1.01		5 L	1 2 1				_			_
DC.S3.1112a DC.S3.1111	Proof Drill					SSEWEP	AGE STA	GE2 - HPG	RADING	OF CHE	ING CHA	USEWAG	GE TREAT		DISPO	SAI	FA4		ES			Date		Revis	sion	Che		Approv
DC.S3.1112a DC.S3.1111 Prim	Prod Drill			UTLYING	ISLAND			GE2 - UPG						MENT AND	DISPO	SAL	FA	CILIT	ES			Date ov-22	Re	Revis	ision	Ch JL	эс С	
DC.S3.1112a DC.S3.1111 Prim Actu	Prod'Oril nary Baseline ual Work			UTLYING	ISLAND			GE2 - UPG D PROGR	RAMME -	REV. 2	2 (28 Fe			MENT AND	DISPO	SAL	FA	CILIT	ES		30-N		_		ision	Ch JL JL		L
DC.S3.1112a DC.S3.1111 Prim Actu Rem	Prod ^{om} any Baseline ual Work aning Work			UTLYING	ISLAND				RAMME -		2 (28 Fe			MENT AND	DISPO	SAL	FA		ES		30-N 31-D	ov-22	Re	ev. 20	ision	Che JL JL	c c	:L
DC.S3.1112a DC.S3.1111 Prim Actu Rem	Prod'Oril nary Baseline ual Work			UTLYING	ISLAND				RAMME -	REV. 2	2 (28 Fe			MENT AND	DISPO	SAL	FA	CILIT	ES		30-N 31-D	ov-22 ec-22	Re	ev. 20 ev. 21	ision	JL JL	С	:L



D	Activity Name	Orl, Dur (d)	TRA /d	Time Flapsed S	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Fibish	Early Start (Roy	Farty Finish	Tetal	Amanded	202	1	2022		2023		2024		2025	202	
Č.			1000.000	The Capacity	Workdone %						Cut in the	20)	(Rev. 20)	Total Float	Activities	Q1 02	03 04 0	02 03	5 Q4 C	21 02 03	Q4 Q1	1 02 03	3 04 01	02 03 0	Q1 Q2	01 0
DC.\$3.1140	Pte-boring for Installation of Sheet Piles (Total 372nos., 3rips)	184	0	100%	100%	31-Mar-22	24-Nov-22	31-Mar-22 A	24-Nov-22 A			31-Mar-22	24-Nov-22					-	<u> </u>							
DC.S3.1140a	Installation of Sheet Files	92	1	100%	100%	18-Aug-22	06-Dec-22	16-Aug-22 A	06-Dec-22 A			16-Aug-22	06-Dec-22					- i - i - i			2			1 1 1		
DC.S3.1160a	Excentrion to +3.0mPD	10	9	100%	100%	23-Nov-22	05-Dec-22	23-Nov-22 A	05-Dec-22 A			23-Nov-22	05-Dec-22					di 1	i.,		C					
DC.53.1160b	Installation of waiting and shut for ELS Layer 1	23	0	100%	100%	13-Dec-22	07-Jan-23	13-Dec-22 A	07-Jan-23 A			13-Dec-22	30-Dec-22					dt in	1 - 1		(++-	1111	-	i i i i i i		
DC.53.1160c	Excavation to +0.5mPD	29	0	100%	100%	31-Dao-22	06-Feb-23	31-Dec-22 A	06-Feb-23 A			31-Dec-22	12-Jan-23					al 1.						1.1.1		
DC 53 1160d	Installation of wailing and strut for ELS Layer 2	15	9	100%	107%	30-Jan-23	18-Feb-23	30-Jan-23 A	18-Eeb-23 A			13-Jen-23	P'-Feb-23								č i					
DC.53.11606	Excavation to 38mPD	17	- 0	41.15%	41%	20-Feb-23	101-00-20	20-Feb-23 A	10-Har-23 K		10-Mar-23	02-Feb-23	15-Feb-23													
						23-Heb-23								0				di (17	<u>(</u>				1.1.1.		
DC.83.1160f	Installation of walling and strut for ELS Layer 3	15	0	0%	0%			11-Mar-23	28-Har-23	11-Mar-23	28-Mar-23	20-Feb-23	04-Mar/23	0	•			41 1	117		C					
DC.83.1160g	Excavation to -5 0mPD	10	0	0%	0%			29-Mar-23		28-Mar-23	13-Apr-23	06-Mar-23	18-Mar-23	0					11	* *						
DC.S3.1160h	Installation of wailing and strut for ELS Layer 4	15	0	0%	0%			14-Ap+-23	02-May-23	14-Apr-23	02-May-23	20-Mar-23	01-Apr-23	0	•				11	* *				1.1.1		
DC.S3.1160i	Excevation to -7.0mPD and concrete blinding layer	15	0	0%	03,			03-Vay-23	19-May-23	03-May-23	19-May-23	03-Apr-23	13-Apr-23	0	•				11	h.	č i					
Substructure Const	sustion (Water Tanks, Pump Room and Blower Room)			DN-				20-Vey-23	29-Nov-23	20-May-23	29-Nov-23			0										1 1 1		
DC.S3.1170a	Construction of Pile Cap (Grid 3-4)(830m3, 4 pour)	41	0	DN-	0%			20-Vay-23	10-Jul-23	20-May-23	10-Jul-23			0						1 1 1				1.1.1.		
DC.S3.1170a10	Removal of 4th Walling & Struts	7	0	DN-	0%			11-Jui-23	18-Jul-23	11-Jul-23	18-Jul-23			0	•			dr fr	1-0-	1 9	t-tt	1111	-	1-1-1-		
DC \$3 1170a20	RC Wall Construction /rom -5.0mPD to -3.8mPD (150m3, 1 pour)	24	a	0%	0%			19-Jui-23	15-Aug-23	19-Jul-23	15-Aug-23			0	•			d +		- L						
	Removal of Srd Wai ing & Sruts	7	0	0%	0%			18-Aug-23		16-ALg-23				0	•					G						
		50		0%	0%			08-Jul-23			04-Sep-23									-						
	Construction of Pile Cap (Grid 1-3) & RC Wall (Grid 3-4) from -3.8mPD to +0.5mPD(1700m3, 9 pour)	04	0						04-Sep-23					0				1 I.		1 2						
	Removal of 2nd Walling & Struts	9		0%	0%			05-Sep-23	14-Sep-23		14-Sep-23			0				4		- C	-					
	RC Well Construction from +0.5mPD to +3.0mPD (800m3, 4 pour)	24	0	0%	0%			15-Sep-23	14-Oct-23	15-Sep-23	14-Oct-23			0	^					1 7	7					
	Removal of 1st Wailing & Struts	9	0	0%	0%			16-0ct-23	26-Oct-23	16-0ct-23	26-0ct-23			0	* []			11 i		18 - 1	÷.			1 1 1		
	RC Well and Floor Stab Construction from +3.0mPD to +4.66mPD (\$30m3, 3 pour)	29	0	DS-	0%			27-0ct-23	29-Nov-23	27-Oct-23	29-Nov-23			0	*				11	i i r	FP -					
	rustion (Switchroom, Inlet Well and DOU Room)			DS-				03-0pt-23	11-Jan-24	05-Oct-23	11-Jan-24			0			11111	at 1						1 1 1		
JC.S3.1180a	Installation of Shoot Files Well	15	0	0%	0%			03-0cl-23	24-0c1-23	05-0:1-23	26-0cl-23			2	•				11	18 - F	目目			1.1.1		
	Excavation Work	17	0	0%	0%			27-0ct-23		27-Oct-23	15-Nov-23			0	• []			41.1			5 II.			1.1.1.		
	Construction of Pile Cap (280m3, 2 pour)	21	0	0%	0%			16-307-23		16-Nev-23				0	•			at 1			4		- I	1 1 1		
	Construction of Mail and Ground Slab (150m3, 1 tour)	2	0	0%	0%			11-Dec-23	30-Dec-23	10-NOV-23 11-Dec-23	30-Dec-23			0	.			11 i i						1 1 1		
		10												0				d 1	11		10			1.1.1.		
л.:S3.1180ө<0	Backfilling and Remove of ELS	9	0	0%	63,			02-Jan-24		02-Jan-24	11-Jan-24			a				11 I.			§ 1	1				
uperstructural Cor	ISOUCHER IGNO 8 - FI			0%				30-Nov-23	08-Feb-24	30-Nov-23	08-Feb-24			0			цшШ	u. j.			ALT.	L.L.		L. L.		
	Wall and Column Construction from +4.65mPD to ~10.25mPD (290m3, 2 pour)	47	9	0%	0%			30-\\o+-23		30-Nov-23				0				d (1.1.1.		
DC.S3.1190u10	Wall, Column and Roof Stati Construction from +10.25mPD to +13.65mPD (900m3, 4 pour)	25	0	0%	0%			11-Jan-24	08-Feb-24	11-Jan-24	08-Fob-24			0	•											
perstructural Cor	wheeline (Crid A - B)			0%				13-Jan-24	29-Fob-24	13-Jan-24	29-Fob-24			0												
IC S3.11905	Wall Column and Stab Construction from +4 65mPD to +8.95mPD (150mS, 1 pour)	19	0	0%	0%			13-Jan-24	03-Feb-24	13-Jm-24	03-Feb-24			0	•			di 1	1			-		1.1.1.		
DC S3.1190b10	Wall, Column and Roof Construction from +6.95mPD to +13.55mPD (210m3, 1 pour)	19	0	0%	0%			05-Feb-24	29-Feb-24	05-Feb-24	29-Feb-24			0	•											
csian Submission	Pres outsing a rear outsing an internet outsing of a reader of a reader of a reader	10		01.02%	010	81. km.21		Riving 21 A	30,406,23		26-Jun-23	09-Jun-21	27.5eb.23	25		· · · ·				.				1-1-1-		
DC S3.1220	Updating of Foundation and Pile Cap Design based on Technical Proposal	97	a	100%	100%	01-Jun-21	06-Sep-21	01-Jun-21 A	06-Sep-21 A	freedbirgs	Gestulisco	08-Jun-21	13-Sep-21	30				di (1.1.1.		
DC.S3.1230	Oher substructures and Superstructs Design	397	9	100%	100%	69-Jan-22	28-Feb-23	09-Jan-22 A	28-Feb-23 A			09-Jan-22	29-Dec-22					<u> </u>	- 1							
DC.S3.1270	Architecture & Landscaping Desgn	578	9	89.27%	70%	30-Sep-21		30-Sep-21 A	30-Apr-23			30-Srp-21	27-Feb-23	35			1		1					1.1.1.		
8M Works				D%				09-Feb-24		09-Feb-24		31-Oci-23	19-Apr-24	0												
DC.S3.1210	E&H. Mechanical Installation (MBR. Air Blower DO system, Pamp etc.)	60	10	0%	0%			09-Fab-24	03-Jun-24	09-Feb-24	03-Jun-24	31-OcI-23	16-Feb-24	0				11						1 1 1		
00.83.1210a	Electrical Installation (Cablo, Instrument, PLC Planet LVSB, etc)	60	10	0%	0%			09-Feb-24	03-Jur-24	09-Feb-24	03-Jun-24			0				d (1.1.1.		
00.83.12106	Installation of BS Equipment	45	5	0%	0%			13-Mor-24	16-May-24	03-Apr-24	03-Jun-24			15				4 i -				-		1 1 1		
DC.83.1210c	Installation of Lifting Applicance	45	5	0%	035			13-Mar-24	16-May-24	03-Apr-24	03-Jun-24			15							1 5	-		1 1 1		
DC.S3.1220a	SCADA System Site Acceptance Test (Prase 1 MBR Construction)	32	0	0%	03			14-Ap+-24	13-May-24		12-Jun-24	30-Nov-23	29-Dec-23	30												
DC 53 1220b	SCADA System Commissioning Test (Phase 1 MBR Construction)	32	0	0%	0%			13-Jun-24		13-Jin-24		29-Jan-24	27-Eeb-24	0				dt in				. 114	-	1 1 1 1		
DC.53.1230b	Seeding of MBR System	30	0	DN-	0%			04-Jun-24		04-Jun-24	03-Jul-24	20-Feb-24	19-Apr-24	0										1 1 1		
00.53.1230c		32	0	0%	0%			04-Jui-24		D4-Jul-24		201780121	100001120	-					$\pm N$							
	System Commissioning Test	32	0		0%						02-Aug-24			U						1 1 1			-			
ternal Architec				0%				09-Feb-24	29-Apr-24	16-Mar-24	03-Jun-24	31-OcH23	0'-Feb-24	28					+ 1/							
C.83.1200	Archilactural Works (Internal)	60	2	0%	0%			09-Feb-24	29-Apr-24	16-Mar-24		31-OcH23	0'-Feb-24	28				d	- K (The He				
	f Sludge Digestor Building with 3 Sludge Holding Tanks			89.88%		31-May-21		31-May-21 A	29-Nov-23	12-Mar-23	17-Dec-23	31-May-21	11-Nov-23	18					+ 1					1 1 1		
	brication and Delivery of Major E&M Equipment			75.83%		12-Jul-21		12-Jul-21 A	05-Sep-23	12-Mar-23	01-061-23	12-Jul-21	18-Apr-23	26					11		11 📗 '			1 1 1		
C.S3.1235a	Tendering of Subcontrator	45	0	100%	100%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-ALG-21 A			12-Jul-21	25-Aug-21			-	.		1 1	1						
C.SS.1235b	Equipment Submission and Approval	435	0	82.65%	85%	10-Aug-21		10-Aug-21 A	13-Apr-23	12-Mar-23	25-Apr-23	10-Aug-21	18-Oct-22	12			High H	<u></u>	-	+				111		
rocurement	· · · · · · · · · · · · · · · · · · ·			100%		31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A		1.1.1	10-Nov-21	10-Nov-21					41 H	N		t 📗					
C S3 1240a1	Slucge Digester Feed Pump and Digested Sludge Pump	1	0	100%	107%.	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				HH	dt- d-	+	1	11	Htti	-			
0.53.1240a1 00.53.1240a10		1	0	100%	107%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A		-	10-Nov-21	10-Nov-21		[]			31 i -			11			1 1 1		
		1	9								-				I			111	11		11 🕕			1 1 1		
C.S3.1240a11	Air Diffuser for Studge Digester	1	g	100%	107%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21		[]	- 11	1710	11	11							
C.S3.1240a2	Submersible Mixer for Digested Studge Holding Tank	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 Í						111		
C.S3.1240a3	Deodorzation Unit4	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21					il.	1.	L	ti II.	11.11		1-1-1-		
00.\$3.1240%	LV Switchcosids, Motor Control Centers and Associated Components	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21													
DC.S3.1240a5	Variable Speed Onive (VSD)	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		비율대법	41 I	+ 11					1 I I		
DC.S3.1240e6	Cable	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		11								
DC.S3.1240a7	Pipe Work/Veive	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								
DC.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					d (* 1			1			1 I I		
	Lifing Applance	1	0 0	100%	100%	\$1-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21					1-1-		1	th 🕪					
ibrication				87.35%	in a star	01-Feb-22	- T TOT T EAL	01-Feb-22 A	05-Sep-23	23.Mar.23	01-0:1-23	01-Feo-22	15-Jan-23	26				++	. 	+++-	41 1			1 1 1		
00.83.124061	Slucge Digester Feed Pump and Digested Sludge Pump	239	0	100%	100%	01-Feb-22	28-Sep-22	01-Feb-22 A	28-Sep-22 A	25 1141-25	1100120	01-Feb-22	28-Sep-22	20					<u>_ </u>		1			1.1.1.		
		239									-				I				11				1			
	Slucge Digester Air Blower		0	100%	100%	01-Feb-22	20-Jul-22	01-Feb-22 A	20-Jul-22 A			31-Jul-22	15-Jan-23			11			_					1.1.1.		
	Air Diffuser for Sludge Digester	240	0	100%	100%	01-Feb-22	28-Sep-22	01-Feb-22 A	28-Sep-22 A			01-Feb-22	28-Sep-22					allowed as	.					LLL		
	Submensible Mixer for Digested Studge Holding Tank	154	9	100%	100%	01-Feb-22	15-Jul-22	01-Feb-22 A	15-Jul-22 A			01-Feb-22	14-Jul-22		T	11		-	11	1			- T			
	Decidenzation Unit 4	437	0	89.7%	90%	01-Feb-22		01-Feb-22 A	13-Apr-23	08-Apr-23	20-May-23	01-Feb-22	29-Dec-22	37						-						
													·		ш			<u> </u>	- +			<u> </u>				_
	mary Baseline	DC/201	19/07 OL	UTLYING	ISLANDS	S SEWER	AGE STA	GE2 - UPG	RADING C	F CHEU	ING CHA	U SEWA	GE TREAT	MENT	AND DIS	POSAI	- FACIL	ITIES	.	Dat			levision	Cheo		prov
								······································				M	~						1	30-Nov-				JL	CL	
Pri																				30-Nov-	-22 I	Rev. 20	0			
Pri	lual Work						REVISE	D PROGR	AMME -	REV. 2	2 (28 Fe	ebruary :	2023)						-							
Pri Ad	lual Work						REVISE	D PROGR				ebruary	2023)							31-Dec-	-22	Rev. 2'	1	JL	CL	_
Pri Ad Re	ual Work maining Work						REVISE	D PROGR		REV. 2 6 of 13)		ebruary	2023)								-22		1	JL	CL	_
Pri Ad Re	lual Work						REVISE	D PROGR				ebruary	2023)							31-Dec-	-22	Rev. 2'	1	JL		



	Activity Name	Ori. Dur (d)	TRA (d)	Time Elapsed X	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	LateFinish	Early Start (Rev.	Early Finish	Total Amended Float Activities	2021 2022	2023	2024	2025	2026
DC S3.124064	LV Switchcounds, Motor Control Centers and Associated Components	5:2	0	76.52%	Workdone 5 76%	01-Feb-22		01-Feb-22 A	27-Jur-23	15-Apr-23	12-Aug-23	20) 01-Feb-22		Float Activities	Q1 02 03 04 01 02 03	04 01 02 03	04 Q1 Q2 Q3 Q4	01 02 03 04	- Q1 Q2 Q3
DC S3.124064		512	0	100%	100%	01-Feb-22 01-Feb-22	30-Jul-22	01-Feb-22 A	27-JUE-23 30-JUE-22 A	-3-mp2-3	15000053	01-Feb-22 01-Feb-22	27-Sep-22 30-Jul-22			⊷ ⊾ []			
S3.124003		240	0	100%	100%	01-Feb-22	28-Sep-22	01-Feb-22 A	28-Seo-22 A			01-Feb-22	28-Sep-22					1 1 1	
																<u>ka ka ka</u> ng sa ka ka	- -		er en les en les en les en
S3.124067 S3.124068		351	0	100%	100%	01-Feb-22 01-Feb-22	28-Jan-23	01-Feb-22 A	26-Jan-23 A	22.51× 07	10.0	01-Feb-22	14-Dec-22 14-Dec-22	23 '					
				68.52%				01-Feb-22 A		23-Mar-23		01-Feb-22						1.1.1.1	
\$3.1240:9	Lifing Applance	592	0	67.35%	67%	01-Feb-22		01-Feb-22 A	05-Sep-23	26-Mar-23	01-0d-23	01-Feb-22	14-Dec-22	26 *					
kary				69.13%		24-May-22		24-May-22 A	05-Sep-23	21-May-23	01-0di-23	24-May-22	18-Apr-23	26					
& Structural	IWorks	38		76.04%		31-May-21		31 May 21 A	16-Sep-23	17-Mar-23	07-0ct-23	31-May-21	25 May-23	21					
\$3.1250	She Preparation Works for Piling (including removal of existing Studge Tank)		4	100%	100%	31-May-21	17-Jul-21	31-May-21 A	17-JUE21 A			31-May-21	17-Jul-21						
\$3.1280a	Subjetting of Supply and Installation of ELS	29	0	100%	100%	01-Aug-21	29-Aug-21	01-Aug-21 A	29-ALG-21 A			01-Aag-21	29-Aug-21						
\$3.1280a10		45	3	100%	100%	12-Jul-21	06-Sep-21	12-Jul-21 A	08-Sep-21 A			03-Dec-21	04-Feb-22					1 1 1	
53.1283b	Pling works for pre-bored sockel H-piles (37 ros. dia010, fiteem)	79	- 4	100%	100%	23-Jul-21	01-Nov-21	23-Jul-21.A	01-Nov-21 A			15-Dec-21	28-Mar-22						
53.129Ca	Pre-boring for instalation of sheet piles	122	1	100%	100%	01-Nov-21	31-Ma22	01-Nov-21 A	31-Mer-22 A			01-Nov-21	30-Mar-22						
53.129Cb	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					1 1 1	
53.1300	Excavation for basement of Studge Digestor Building (3425m3 exca, 1 team)	111	2	100%	100%	10-May-22	22-Scp-22	10-May-22 A	22-Stp-22 A			10-May-22	2'-Sep-22			(E E			
33.1310a	Subjecting 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 1	
\$3.1310b	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	19-Jan-22						
\$3.1310c	Construction of Pile Cap. (Grid 2-4)	64	2	100%	100%	20-Sec-22	08-Dec-22	20-Sep-22 A	08-Dec-22 A			20-Sep-22	08-Dec-22			🖶 🛛 🔅 🖓			
53.1310d	Removal of Formwork and Backfilling and Removal of ELS (Layer 3)	20	0	100%	100%	08-Deo-22	03-Jan-23	09-Det-22 A	03-Jan-23 A			09-Dec-22	24-Dec-22			9		- 1-1-1-	
3.1310e	Construction of Underground Wall (Grid 2-4) (from -1.2mPD to +1.0 mPD)	23	0	100%	100%	04-Jan-23	01-Feb-23	04-Jan-23 A	01-Feb-23 A			27-Dec-22	20-Jan-23			49			
53.1310f	Removal of Formvork and Backfilling and Removal of ELS (Layer 2)	15	0	100%	100%	02-Feb-23	18-Feb-23	02-Feb-23 A	18-Feb-23 A	-		21-Jan-23	06-Feb-23						
53.1310g	Construction of Underground Wall (Grid 2-4) (from +1.0mPD to +3.1mPD)	22	0	22.72%	31%	20-Feb-23		20-Feb-23 A	18-Har-23	17-Mar-23	06-Apr-23	07-Feb-23	27-Feb-23	15 *		: L <mark>.</mark>			
3.1310h	Removal of Formvork and Backlilling and Removal of ELS (Laver 1)	8	0	0%	0%		-	20-Mar-23	25-Har-23		17-Apr-23	28-Feb-23	14-Mar-23	15 *		i 🛄			
3.1310i	Construction of ground state (Grid 2-4) (from +3.1mPD to +4.4mPD, 180m3, 1 pour)	22	0	0%	0%			27-Mar-23	25-401-23		22-May-23	26-P60-23 15-Mar-23		22 •					
S.1310	Installation of ELS and excavation for pile cap of Studge Holding Tanks (523m3)	6	0	0%	0%			27-mai-23 17-Jui-23	22-Jul-23		10-Aug-23	15-Mar-23	2014pt-23	16 *					
3.1340	Construction of RC structure of Sludge Holding Tanks (below ground, 210m3, 1 pour)	12	0	0%	0%			24-Jui-23	05-Aug-23		24-Aug-23	22-Mar-23	2 -mai 23 04-Apr-23	16 *		i 🚺 📋 i 📊 🕴			
8.1350	Construction of PCC singlet and accege Porang Fains (center ground, 2 torics, 1 pour) Removal of Formwork and Backfilling to ground level and removal of ELS (Sludge Holding Tank)	6	0	0%	0%			07-Aug-23	12-Aug-23		24-mpg-23 31-Aug-23	0E-Apr-23	19-Apr-23	16					
58.1351 58.1351		30	0	0%	0%			14-Aug-23	16-Sep-23		07-0ct-23		25-May-23	16					
	Construction of RC superstructure (Sludge Holding Tank) (376m3, 2 pour)	24										20-Apr-23	25-M8y-23	22		- \ []			
3.136Ca	Construction of RC Well (Gride 2-4) (from +4.4mPD to +9.15mPD, 100m3, 1 pcur)		0	0%	6%			26-Apr-23	24-h/ay-23		20-Jun-23								
53.136Cb	Construction of RC Wall (Gride 2-4) (from +9.25mPD to +12.3mPD, 60m3, 1 pour)	23	0	0%	0%			25-9ay-23	17-Jur-23	21-Jun-23	15-Jul-23			22 *		H H		1 1 1	
\$3.1360c	Construction of RC Roof State (Girdo 2-4) (230m3, 1 pour)	18	0	0%	0%			19-Jun-23	08-Jul-23		03-Aug-23			22 *					
53.1360d	Installation of ELS and excavation for substructures of Studge Digostor Building (Gride 1-2)	8	0	0%	0%			29-Mar-23	11-Apr-23		28-Apr-23			15 *		1		1 1 1	
53.1360e	Construction of RC pile cap. (Grid 1-2) (65m3. 1 pour)	12	0	0%	0%			12-Ap=-23	25-Apr-23	29-Apr-23	13-May-23			15		••••••••••••••••••••••••••••••••••••••			
53.1360f	Construction of RC ground alsb (Gride 1-2) (80m3, 1 pour)	18	0	0%	035			26-Apr-23	15-h/ay-23	15-May-23	02-Jun-23			18		1			
53.1360g	Backfilling to ground level and removal of ELS (Gride 1-2)	6	9	0%	03,			16-Vsy-23	22-May-23	03-Jin-23	09-Jun-23			15 *		- B -		1.1.1	
SS.1360h	Construction of RC Well and State (Cricle 1-2) (from +4.4mpD to +9.15mpD) (90m3, 1 pour)	2'	9	0%	63,			23-Vey-23	16-Jur-23	10-Jin-23	06-Jul-23			15 *		: 1 ⁴ 14 1			
SS.1360i	Construction of RC Well (Gride 1-2) (from +9.15mpD to +12.3mpD) (35m3, 1 pour)	17	9	0%	0%			17-Jun-23	08-Jul-23	07-Jul-23	26-Jul-23			15 1					
.53.1360j	Construction of RC Roof Stab (Gride 1-2) (110m3) (110m3, 1 pour)	17	0	D%-	0%			10-Jul-23	28-Jul-23	27-Jul-23	15-Aug-23			15 *		1			
Works				DN-				10-Aug-23	29-Nov-23	28-Aug-23	17-Dec-23	26-Jul-23	11-Nov-23	18		· · · · · · · · · · · · · · · · · · ·			
.\$3.1380a	Installation of Submonsible Hixer, Air Blower, Air Diffusor, Feed Pump, DOU	58	0	0%	0%			10-Aug-23	18-Oci-23	28-As g-23	03-Nov-23	26-Jul-23	28-Sep-23	15					
\$3.136Cb	Installation of Cable Containment & Conduit	25	0	0%	0%			10-Aug-23	07-Sep-23		25-Sep-23	26-Jul-23	23-Aug-23	15					
\$3.1380c	Installation of BS Equipment, Cable, Instrument, PLC Panel	43	0	0%	035			25-Aug-23	16-Cc1-23	12-Sep-23	03-Nov-23	10-Aag-23	28-Sep-23	15		· -,#		1 1 1	
\$3.1380c10		25	0	0%	0%			02-Sep-23	26-Sep-23		03-Nov-23			38 *					
55 1360d	SAT of Equipment	7	0	0%	0%			17-0ct-23	25-Oct-23		11-Nov-23	29-Sep-23	12-Ont-23	15		÷			
58.1360d10		14	0	DN-	0%			17-0th-23	30-OcI-23	04-Nov-23	17-Nov-23			18		: 🗜			
53.1390a	SCADA System Site Acceptance Test (Press 1 Sludge Digestor Building Construction)	32	0	0%	0%			05-Sep-23	05-Oc1-23	19-0:1-23	17-Nov-23	25-Aug-23	23-Sec-23	40					
53.1390b		32	0	0%	0%			09-001-23	07-Nov-23	18-Nov-23	17-Dec-23	24-Sep-23	23-001-23	41					
53.1400h	SCADA System Commissioning Test (Phase 1 Sudge Digestor Building Construction) System Commissioning Test	30	9	0%	0%			31-0cl-23	29-Nm-23	18-Nov-23	17-Dec-23	13-Oci-23	11-Nov-23	18					
		34	9	0.00	0.8			18-Jul-23	03-Oct-23		20-0ct-23	26-Jul-23	10-Nov-23	10		· · · · · · ·			
58,1370	Architectural Works (internal)	63	2	0%	0%			18-Jui-23	03-Cc1-23	04-ALg-23		26-Jul-23		15					
		63	2	73,25%	0%	12-Jul-21		12-Jul-21 A	02-Aug-23	04-MLg-23	20-Det-23	26-301-23 12-301-21	104N00-23 02-Aup-23	18					
	of LV Main Switch Room, Transformer Room							12-Jul-21 A 12-Jul-21 A				12-Jul-21 12-Jul-21	02-Aug-23 18-May-23	131					
	abrication and Delivery of Major E&M Equipment			97.39%	40.00	12-Jul-21			15-Var-23	20-Aug-23	04-Sep-23			173					
53.1405a	Tendering of Subcontrator	45	0	100%	100%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-ALG-21 A			12-Jul-21	25-Aug-21			i - I - I - I - I - I - I - I - I - I - I - I -	 	Maria da Maria	
S.1405b	Equipment Submission and Approval	140	0	100%	100%	10-Sep-21	18-Dec-21	10-Sep-21 A	18-Dec-21 A			10-Sep-21	18-Dec-21						
3.1410a	Procurement	30	0	100%	107%	14-Feb-22	14-Feb-22	14-Feb-22 A	14-Feb-22 A			20-\far-22	18-Apr-22		<u> </u>				
setion				100%		18-Jan-22	25-Feb-23	18-Jan-22 A	25-Feb-23 A			18-Jan-22	16-May-23						
S3.1410b	Cable	247	0	100%	100%	18-Jan-22	22-Sep-22	18-Jan-22 A	22-Stp-22 A			18-Jan-22	13-Nov-22						
\$3.1410520	0 LV Switchboard, Motor Control Centers and Associated Components	118	0	100%	100%	31-Oct-22	25-Feb-23	31-Oct-22 A	25-Feb-23 A			31-Oct-22	18-May-23			****			
ery				86.89%		01-Sep-22		01-Sep-22 A	15-War-23	20-ALg-23	04-Sep-23	14-Nov-22	18-Apr-23	173					
S3.1410c	Cable	21	0	100%	100%	01-Sep-22	22-Sep-22	01-Sep-22 A	22-Sep-22 A			14-Nov-22	13-Dec-22			₩ -4<u> </u> 			
S3.1410c220	22 LV Switchboard, Motor Control Canters and Associated Components	18	0	11.11%	0%	26-Feb-23		26-Feb-23 A	15-Har-23	20-Aug-23	04-Sep-23	20-\far-23	18-Apr-23	173		: 🔥			
Structural				100%		04-Oct-21	31-Jan-23	D4-Oct-21 A	31-Jan-23 A			04-Oct-21	31-Jan-23			; - - / ↓			
S3.1420	Piling works for pre-bored sockel H-piles (17 ros. dis610) (fieerr)	54	5	100%	100%	15-Oct-21	18-Nov-21	15-0ct-21 A	18-Nov-21 A			28-Feb-22	02-Apr-22			: 			
\$3,1450	Pre-boring of sheet piles & installation of pipe pile wall	58	2	100%	100%	19-Nov-21	29-Jan-22	19-Nov-21 A	29-Jan-22 A			04-Apr-22	18-Jun-22						
33.1431	Grouting Curtain Works	48	2	100%	100%	31-Jan-22	01-Apr-22	31-Jan-22 A	01-Apr-22 A			31-Jan-22	01-Apr-22			5 I I I I I I I			
33.1450	Installation of Sheet Piles	8	2	100%	100%	30-Mar-22	11-Aar-22	30-Mar-22 A	11-Apr-22 A			30-Mar-22	11-Apr-22			:			
S3.1460a	Subjecting of Earthoorks	45	0	100%	100%	04-Oct-21	25-Nov-21	04-0ct-21 A	25-Nov-21 A	-		04-Oct-21	25-Nov-21						
S3.1460b	Installation of ELS and excertation for basement of LV Main Switch Room and Transformet Room	4.0 54	2	100%	100%	12-Apr-22	23-Jun-22	12-Apr-22 A	23-Jun-22 A	1		12-Apr-22	22-Jun-22						
and the Market		25	2	100%	100%	25-Jun-22	25-Jul-22	25-Jun-22 A	28-Jul-22 A	-			02-301-22			÷	⊢∦− - -		
CC 1777	Construction of RC situature (pie cap)	25	2									31-May-22							
	Removal of formetrics, falseworks, backfilling imass filling and removal of ELS	12	1.1	100%	100%	29-Jul-22	15-Aug-22	29-Jul-22 A	15-ALG-22 A			19-Jul-22	03-Aug-22					1 1 1	1
			0.07.01			C CEMPP	ACESTA	GE2_UPC							SPOSAL FACILITIES	Date	Revisio	ion Chec.	с Арр
\$3.1480	man/ Baseline																		
53.1480 Prir	imary Baseline	DC/201	9/07 01	UTLING											OF OURE FACILITIES	30-Nov-25	2 Rev 20	1.1	IC.
53.1480 Prir	imary Baseline xtual Work	DC/201	9/07 0											ENT AND DR		30-Nov-22		JL	CL
S3.1460 Prir Act	stual Work	DC/201	9/07 01					D PROGR	AMME -	REV. 2						31-Dec-22	2 Rev. 21	JL	CL
Bili 480 Prir Act Re	ztual Work emaining Work	DC/201	9/07 01						AMME -								2 Rev. 21		_
Ad Re	stual Work	DC/201	9/07 01						AMME -	REV. 2						31-Dec-22	2 Rev. 21		JL



D	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. 20)	Early Finish	Total Ar	winded	2021		2022	2023	2024	2025	2026
DC.S3.1490a	Subjetting of Finishing Works	181	0	100%	Workdone % 100%	19-Jul-22	31-Jan-23	19-Jul-22 A	31-Jan-23 A			20) 19-Jul-22	Early Finish (Rev. 20) 31-Jan-23	Float Ar	ivities Q	1 02 03	04 01 0	22 03 04	21 02 03 04	Q1 Q2 Q3 Q4	1 02 03 Q4 (Q1 Q2 Q3 C
DC.S3.1490b	Construction of RC Structure (Remaining)	103	2	100%	100%	15-Aug-22	19-Dec-22	15-Aug-22 A	19-Dec-22 A			15-Aug-22	19-Dec-22					-				
E&M Works				1.88%		25-Feb-28		25-Feb-23 A		22-Jil-23	17-Dec-23	16-Feb-23	02-Aug-23	137		2.0						
DC.SS.1500	Installation of other E&M equipments	70	2	DN-	8%			01-Ap+23	03-Jul-23		17-Nov-23	19-Apr-23	03-Jul-23	115			III T					
DC.53.1500b	Installation of Electrical System	70	2	D%	0%			01-Ap-23	29-Jur-23	25-ALg-23	17-Nov-23			117		21.21						
DC.53.1500c	Installation of SCADA	35	0	D%	0%			15-9ay-23	28-Jur-23	07-Ocl-23	17-Nov-23			120		1						
DC.83.1500d	Installation of BS System	45	0	0%	0%			03-9Ey-23	28-Jur-23	23-Sep-23	17-Nov-23	04.54.00	00.4	120					T .			
DC.83.1510	She Acceptorise Test	30	0	0%	0%	25-Feb-23		04-Jul-23 25-Feb-23 A	02-Aug-23 30-Jun-23	18-Nov-23	17-Dec-23 17-Nov-23	04-Jul-23 16-Feb-23	02-Aug-23 20-Jun-23	137								
DC.S3.1530a	Installation of BS equipment at CLP Transformer Room	34	2	5.58%	0%	25-Feb-23 25-Feb-23		25-Feb-23 A	12-Apr-23	CC 001 CO	30-Aug-23	16-Feb-23	20-301-23 29-Mar-23	140								
DC.S3.1530b	Site Americanae Test	4	0	0%	0%	2010020		13-Ap-23	16-Apr-23		03-Sep-23	30-Mar-23	02-Apr-23	140								
DC.S3.1530c	CLP Inspection and Delect Rectification	9	0	DN-	0%			17-Apr-23	26-Apr-23		13-Sep-23	03-Apr-23	20-Apr-23	116								
DC.S3.1530d	CLP Re-inspection and Minor Defect Rectification	4	0	DN-	0%			27-Apr-23	02-May-23	14-Sep-23	18-Sep-23	21-Apr-23	25-Apr-23	116		10.00					1.1.1	
DC.S3.1530d10		12	0	DS-	0%			17-Apr-23	29-Apr-23	05-Sep-23	18-Sep-23			117	•		1117	1111	ē		1111	
DC.83.1530e	Handover to CLP for CLP's Works	48	0	0%	0%			03-¥ay-23	29-Jur-23		16-Nov-23	28-Apr-23	19-Jun-23	116	•	1.0						
DC.S3.1530f	Engerizing	1	0	0%	0%			30-Jun-23	30-Jun-23		17-Nov-23		20-Jun-23	116								
Internal Architect	anal Works	48	5	45.1%		01-Feb-23		01-Feb-23 A	31-Har-23	08-Mar-23	22-Aug-23	01-Feb-23	24-Mar-23	115								
DC.83.1550 DC.83.1560	Architectural Works (Internal) Architectural Works for CLP Transformer Room (Internal)	45	5	45.1% 53.48%	33% 100%	01-Feb-23 01-Feb-23		01-Feb-23 A 01-Feb-23 A	31-Har-23 22-Har-23		22-Aug-23 31-Mar-23	01-Feb-23 01-Feb-23	24-Mar-23 15-Eeb-23	115								
	f Underground Utilities	42		03.48%	10.5	UTHPED-25		18-Sep-23	22-981-23 30-Oct-23	08-0xt-23	17-Nov-23	14-Jun-23	25-30-23	0 16				1 1 7	⊺ ₩ 			
DC.S3.1600	Construction of Drainage and Severage System. Fire Services, Electrical & Plumping Undergound Utilities	32	2	0%	0%			18-Sep-23	30-Oct-23	09-Oct-23		14-Jun-23	25-Jul-23	16				11/				
	Ige Digestion System			97.68%		24-Jun-22		24-Jun-22 A	30-Dec-23		30-Dec-23	24-Jun-22	29-Nov-23	0		21.2		++ \				
DC.S3.1700	Construction of Temporary Studge Digestion System T&C	88	3	100%	100%	24-Jun-22	10-Oci-22	24-Jun-22 A	10-0cl-22 A			24-Jun-22	10-Oct-22					- 🔫 🗏	Y			
C.S3.1710	Temporary Row Diversion and isolate existing aerobic studge digestor and relevant buildings	8	1	100%	100%	11-0ct-22	20-Oct-22	11-0ct-22 A	20-0ct-22 A			11-Oc1-22	20-Oct-22			5-18-						
DC.83.1720	Removal of Temporary Sludge Digestor System	10	0	0%	0%			18-Dec-23		18-Dec-23	30-Dec-23	13-Nov-23	29-Nov-23	0		100						
	Clearance at the area of Proposed Preliminay Treatment Facilities			100%		20-Oct-22	24-Nov-22	20-Oct-22 A	24-Nov-22 A			20-Oct-22	09-Dec-22									
Demolition wor				100%	10.000	20-Oct-22	24-Nov-22	20-Oct-22 A	24-Nov-22 A			20-Oct-22	09-Dec-22			21.22						
DC.83.2010 DC.83.2020	Demolition of existing Aerobic Studge Digestor	29	0	100%		21-Oct-22 21-Oct-22	24-Nov-22 24-Nov-22	21-Oct-22 A 21-Oct-22 A	24-Nov-22 A 24-Nov-22 &			21-Oct-22 21-Oct-22	09-Dec-22 09-Dec-22				H H - !					
DC.S32020 DC.S32030	Demolition of existing Blower and Pump House Demolition of existing Genset Room	28	0	100%	100%	21-Oct-22 21-Oct-22	24-Nov-22	21-00-22 A	24-Nov-22 A			21-0ct-22 21-0ct-22	09-Dec-22 09-Dec-22			5						
DC.S32040	Disconnecing data link of removed existing equipment from the existing SCADA system	7	0	100%	100%	20-Oct-22	26-Oct-22	20-0ct-22 A	26-Oct-22 A			21-0ct-22 20-0ct-22	26-Ont-22			1.0		L L				
HASE 3 - Con	struction of Preliminary Treatment Facilities			53.12%		12-Jul-21		12-Jul-21.A	06-Aug-24	28-Feb-23	06-Aug-24	12-Jul-21	23-Apr-24	0		-		+ []				
	f Preliminary Treatment Facilities			53.31%		12-Jul-21		12-Jul-21.A	02-Aug-24	28-Feb-23	02-Aug-24	12-Jul-21	19-Apr-24	0								
	brication and Delivery of Major E&M Equipment			61.25%		12-Jul-21		12-Jul-21.A	10-Har-24	21-Mar-23	08-Jun-24	12-Jul-21	14-Dec-22	90						-		
DC.SS.3005a	Tendering of Subcontrator	45	0	100%	100%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-ALG-21 A			12-Jul-21	25-Aug-21			-=						
DC.83.3905b	Equipment Submission and Approval	544	0	83.09%	50%	03-Dcc-21		03-Dec-21 A	30-May-23*	21-Mar-23		03-Dec-21	14-Dec-22	21			-					
Procurement				0%				01-Jun-23	01-Dec-23		11-Feb-24			72		200						
DC.83.3015	Stopiq	1	0	0%	0%			01-Aug-23*	01-Aug-23		02-Dec-23			123			H					
DC.S3.3025 DC.S3.5035	Pensitok Nechanical Bar Screan - Coarse Screan	1	0	0%	0%			01-Aug-23* 01-Aug-23*	01-Aug-23 01-Aug-23		02-Dec-23 02-Dec-23			123		1.17						
DC.S3.3035 DC.S3.3045	Screw Conveyor	1	0	0%	0%			01-Aug-23*	01-Aug-23		02-Dec-23			123	•	20.00						
DC.S3.3055	Sorew Compartor	1	0	0%	03,			01-Aug-23*			02-Dec-23			123	*							
DC.S3.3065	Submersible Pump	1	0	DS-	0%			01-Aug-23*		02-Dec-23				123	•	1.1						
DC.S3.3075	Submersible J.g. Mixer	1	0	0%	0%			01-Aug-23*	01-Aug-23	02-Dec-23	02-Dec-23			123	•							
DC.S3.3085	Gri Punç	1	0	0%	0%			01-Aug-23*	01-Aug-23	02-Dec-23	02-Dec-23			123	•							
DC.S3.3095	Grit Classifier & Grit Mixer	1	0	0%	0%			01-Aug-23*	01-Aug-23		02-Dec-23			123	:							
DC.\$3.3105	Nechanical Filter Mean	1	0	0%	0%			01-Aug-23*	01-Aug-23		02-Dec-23			123	•	1.0						
DC.S3.3115 DC.S3.3125	Lifing Applance OI Skimmer Pump	1	0	0%	0%			03-Jul-23 01-Auc-23	03-Jul-23 01-Aug-23		06-Dec-23 02-Dec-23			156							·	e n far al a site
DC.53.3125 DC.53.3135	Deadorization Unit (DOU1)	1	0	0%	0%			01-Aug-23	01-Aug-23		02-Dec-23			123								
DC.S3.3145	LV Switchos d/MCC	1	0	0%	0%			01-Aug-23*	01-Aug-23		13-Dec-23			134		10.12						
DC.S3.3155	VSD	1	0	0%	0%			01-Aug-23*	01-Aug-23		13-Dec-23			134	·							
DC.S3.3165	UPS with Isolation Transformer	1	0	0%	0%			02-Oci-23*	02-OcI-23		11-Feb-24			132	•	21-25						
DC.S3.3175	PLC Parel	1	0	0%	0%			01-Dec-23*	01-Dec-23		06-Feb-24			67	·						TIT	
DC.\$3.3185	Instrumentation	1	0	0%	0%			01-Jun-23*	01-Jur-23		14-0ct-23			135	•	1.0						
Fabrication				0%				02-Jun-23	09-Feb-24	15-Oct-23	09-May-24			90		2						
DC.S3.3195	Stoplog	125	0	0%	0%			02-Aug-23	04-Dec-23		05-Apr-24			123								
DC:S3.3205 DC:S3.3215	Pensitok Mechanical Bar Screen - Coarse Screen	125	0	D%	0% 0%			02-Aug-23 02-Aug-23	04-Dec-23 04-Dec-23		05-Apr-24 05-Apr-24			123	. II-		₩₩				· · · · · · · · · · · · · · · · · · ·	
DC:S3.3215 DC:S3.3225	Mechanical Bar Schein - Coante Schein Schein Conveyor	120	0	D%	0%		-	02-Aug-23 02-Aug-23	04-Dec-23 04-Dec-23		06-Apr-24 05-Apr-24			123		21.22						
DC.S3.3225	Screw Consector	125	0	0%	0%			02-Aug-23	04-Dec-23		05-Apr-24			123	•							
DC.S3.3245	Submersible Pump	125	0	0%	0%			02-Aug-23		03-Dec-23				123	·	2						
DC.83.3255	Submersible Jer Mixer	125	0	0%	0%			02-Aug-23	04-Dec-23		05-Apr-24			123	• -	10.10						
DC.\$3.3265	Grit Punip	125	0	0%	0%			02-Aug-23	04-Dec-23		05-Apr-24			123	•			T				
DC.S3.3275	Grit Classifier & Grit Mixer	125	0	0%	0%			02-Aug-23	04-Dec-23		05-Apr-24			123	•	21.22						
DC.S3.3285	Mechanical Filter Mean	125	9	D%	0%			02-Aug-23	04-Dec-23		05-Apr-24			123	·							
DC.S3.3295	Lifing Applance	155	0	D%	0%			04-Jui-23			09-b/ay-24			156	<u>.</u>	2						
DC.S3.3305 DC.S3.3315	OI Skinner Pump	125	0	D%	0% 0%			02-Aug-23		03-Dec-23				123	. -		-					
DC.S3.3315 DC.S3.3325	Deciderization Unit (DOU1) LV Switchboard/MCC	125	0	D% 0%	0%			02-Aug-23 02-Aug-23		03-Dec-23 14-Dec-23				123								
06.83.3325	EV OWICHOUNDWOO	125	U	U%	0%			02-Aug-23	04-060-23	H-Dec-23	10-9p1-24			- 34	LL_			<u> </u>				1.0
Prin	nary Baseline	DC/201	9/07 OL	JTLYING I	SLANDS	SEWER	AGE STA	GE2 - UPG	RADING (OF CHEU	NG CHA	U SEWAG	E TREAT	MENT A	ND DISP	OSAL F	ACILITI	ES	Date	Revisio		. Approv
	ual Work							D PROGR											30-Nov-22	Rev. 20	JL	CL
																			31-Dec-22	Rev. 21	1.0	CL
Act																						
Act Re	maining Work									8 of 13)			ŕ						28-Feb-23	Rev. 21	JL	CL
Act Rei Crit												ĺ	,								JL	



Activity ID	Activity Name	Ori. Dur (d)	TRA (d)	Time Expeed S	Actual Actual Start Actual Finish Workdone %	Early Start	Early Finish	Late Start Late Fi	ish Early Start 20)	Rev. Early Finish (Rev. 20)	Total Amendec Float Activities	d s Q1 Q	2021	207	2 03 04 0	2023	1 94 0	2024	04 01	2025	4 01 02	26 21
DC.\$3.5335	V80	125	0	0%	0%	02-Aug-23	04-Dec-23				134 *					119	API					
DC.\$3.\$345	UPS with Isolation Transformer	65	0	0%	0%	03-0ct-23	06-Dec-23				132 *											
DC.S3.5355	PLC Parel	70	0	0%	0%	02-Dec-23	09-Feb-24				67 *			استعلم				4444		<u></u>		
DC.S3.S365	Instrumentation	195	0	DN-	0%	02-Jun-23 04-Dec-23		15-Oct-23 16-Ap			135		1			-		_				
DC.S3.3375	Sipping	30	- 0	D%- D%-	0%	04-Dec-23 05-Dec-23	10-Har-24 03-Jar-24	D8-Apr-24 08-Jun D8-Apr-24 05-Ma			123						1 -					
DC.S3.3385	Persick	30	0	0%	0%	05-Dec-23	03-Jan-24	06-Apr-24 05-Ma			123	-										
DC 83,3395	Mechanical Bar Screen - Coarse Screen	30	0	0%	0%	05-Dec-23	03-Jar-24				123											
DC.\$3.3405	Screw Conveyor	30	0	0%	0%	05-Dec-23	03-Jar-24	08-Apr-24 05-Ma	-24		123				- 6 I I				1	6 E E		
DC.\$3.3415	Screw Compactor	30	0	0%	0%	05-Dec-23	03-Jar-24				123 *		1									
DC.S3.5425	Submersible Pump	30	0	0%	0%	05-Dec-23	03-Jar-24				123 *											
DC.S3.3435	Submensible Jet Mixer	30	0	DN-	0%	05-Dec-23	03-Jar-24	06-Apr-24 05-Ma	-24		123 *									6 F F		
DC.S3.3445	Grit Pump	30	0	DS-	0%	05-Dec-23	03-Jar-24	06-Apr-24 05-Ma	-24		123											
DC.S3.3455	Grit Classifier & Grit Mixer	30	0	DS-	0%	05-Dec-23	03-Jar-24	06-Apr-24 05-Ma	-24		123											
DC.83.3465	Mechanical Filter Mesh	30	0	0%	0%	05-Det-23	03-Jan-24				123		- SI									
DC.83.3475	Lifting Applance	30	0	0%	0%	06-Det-23	04-Jan-24				156	_			- S - '							
DC.S3.3485 DC.S3.3495	OI Skimmer Pump	30 30	0	0%	0%	05-Dec-23 05-Dec-23	03-Jar-24				123 *											
DC.S3.3295 DC.S3.3505	Deodorzation Unit (DOU1) LV Switchcoerd/MCC	30	0	0% 0%	0%	05-Dec-23 05-Dec-23	03-Jar-24 03-Jar-24	06-Apr-24 05-Ma 17-Apr-24 16-Ma			123 -					· · · · · ·	- -	-	-			
DC.53.3505 DC.53.3515	VSD	30	0	0%	0%	05-Dec-23	03-Jar-24	17-Apr-24 16-Ma			134 ^	_										
DC 53.3525	UPS with Isolation Transformer	30	0	0%	0%	07-Dec-23	05-Jar-24	17-Apr-24 16-Ma			132 *	-	1									
DC.53.3525 DC.53.3535	PLC Parel	32	0	0%	0%	10-5eb-24	10-Har-24	17-Apr-24 16-Ma			87 .			111			i li 🖡	- 11 B		111		
DC.S3.3545	Instrumentation	30	0	0%	0%	04-Dec-23	02-Jan-24	17-Apr-24 16-Ma			135											
Civil & Structural			1.1	18.03%	25-N:v-22	25-Nov-22 A	04-May-24			22 20-Jan-24	0		1 10		++	╊──┼┼┤	┍╋╋╋					
DC.S3.3020	Pre-boring Works for Sneet Pile Wall Installation	113	0	80.18%	51% 25-Nov-22	25-Nov-22 A	25-Apt-23				0 .		- \$J			≓	H II			(I I		
DC.S3.3040	Installation of Sheet Pile Wall	24	0	0%	0%	31-Mar-23	03-May-23	31-Mar-23 03-Ma	-23 09-Feb-	23 27-Mar-23	0 .		71		- 4	+•			1			
DC.S3.3050a	Excevation to +2.5mPD	7	0	0%	0%	04-Vsy-23	11-May-23	04-May-23 11-Ma	-23		۵ ۰				- E I 1	1 ⁴ 4	ı El 📗			1 I I		
DC.S3.3050a10	Installation of 1st Waiing & Struts	14	0	0%	0%	06-Vsy-23	22-May-23	06-May-23 22-Ma	-23		0 ^		1 (I			1 - 7 1						
	Excevation to +0.5mPD (approx, 50m3 rock excevation)	7	0	0%	0%	23-Vay-23		23-May-23 31-Ma			0 *		1			191						
DC.S3.3050430	Installation of 2nd Wailing & Struts	14	0	0%	0%	01-Jun-23		01-Jun-23 16-Jun			0 .		1.1		111				1			
DC.S3.3050a40	Excavation to -3.5mPD (approx. 1030m3 rock excavation)	18	0	0%	0%	17-Jun-23	07-Jul-23				0		1						1			
DC.83.3050a50	Installation to 3rd Walling & Struts	14	0	0%	0%	08-Jul-23	24-Jul-23				0	_				H				6 E E		
DC.S3.3050a60 DC.S3.3050a70	Excavation to -5mPD (approx, 550m3 rock excavation)	18	0	0% 0%	0%	25-Jul-23 12-Aut-23	11-Aug-23 24-Aug-23				0 .					¢	t l l					
DC.S3.3050#80	Installation to 4th Walling & Struts Excervation to -8.075mPD and Binding Layer (sporox: 960m3 rock excervation)	16	0	0%	0%	25-Aut-23		12-Aug-23 24-Au 25-Aug-23 12-Se			a •	-										
DC.83.3060	Plate Load Test (Totel 3 nos.)	5	9	0%	0%	13-Sep-23		13-Sep-23 17-Se		23 11-Jul-23	a *	_				1 🖽						
DC.S3.3080	Construction of File Cap (Grid E to Grid H) (1209n3, 6 pount)	30	0	0%	0%	28-Sep-23		28-Sep-23 04-No			0 1	-	1		\rightarrow N	, ¢L						
DC.S3.3060a	Removal of 4th Walling and Struts	8	0	D.N.	0%	06-\\or-23		06-Nov-23 11-No			0 .	-	- 91		- H P					e i i i		
DC.83.30605	Construction of File Cap (Grid A to Grid E) and R.C. Wall to -3 5mPD (Grid E to Grid H) (620m3, 5 pount)	25	0	DN-	0%	13-\\or-23	11-Dec-23	13-Nov-23 11-De	-23		0 .		1.1	1-1-1					1			
DC.83.3080c	Removal of Sed Weiling and Situls	5	0	0%	0%	12-Dec-23	18-Dec-23				g •									6 F F		
DC.83.3080d	Construction of RC Well (from -3.5mPD to +0.5mPD) (380m3, 2 pours)	15	0	0%	0%	19-Dec-23	11-Jan-24	19-Dec-23 11-Jan	-24		0 *									1 I I.		
DC.\$3.3080e	Removal of 2nd Wailing and Struts	8	0	0%	0%	12-Jan-24	18-Jar-24	12-Jan-24 18-Jan	-24		0 *						il 🖁					
DC.S3.3080f	Construction of RC Wall (from +0.5mPG to +2.5mPG)	18	0	0%	03,	19-Jan-24	08-Feb-24				0 *						L L 🎁	3				
DC.SS.3080g	Removal of 1st Wailing and Struts	6	0	0%	0%	09-Feb-24	19-Feb-24				a ^							1				
DC.S3.3060h	Construction of RC Ground State (from +2.5mPD to +4.8mPD)	23	0	DN-	0%	20-Feb-24	13-Har-24	20-Feb-24 13-Ma			0 [.]	_					i El IG					
DC.53.3060i	Construction of RC Weil and MCC Room Slab (from +4.5mPD to +9.35mpD)	20	0	D%-	0%	14-Mar-24	10-Apr-24	14-Mar-24 10-Ap			0.	_				1				1 I I.		
DC.S3.3100 EAM Works	Construction of RC Well and Roof State (from +9.35 to +13.55)	23	0	0% 0%	0%	11-Ap+24 05-Wex-24	04-May-24				0.				1			- <u>1</u>				
DC.83.3120	E&H, Mechanicle Installation (Mixers, Inlet Pumps, Gritremoval system, DO systems and etc.)	48	2	0%	05	05-98y-24 06-98y-24	02-Aug-24 03-Jul-24	06-May-24 02-Au 06-May-24 03-Jul			0						i i 📕					
DC.S3.3120a	Electrical Installation (Cable, Instrument, PLC, Planel LVSB, etc)	40	2	0%	05	05-Vay-24	21-Jun-24			24 22100124	12 *				- I N			T-				
DC.S3.3120b	Installation of BS Equipment	25	0	0%	0%	18-984-24	11-Jur-24				22 *						111	-9				
DC.SS.3120510	Installation of Lifting Appliance	25	0	0%	0%	18-Vay-24	11-Jur-24	09-Jun-24 03-Jul	24		22 *						111					
DC.53.3130a	SCADA System Site Acceptance Test (Prese 3 PTF Construction)	30	0	DN-	0%	14-9ay-24	12-Jur-24	04-Jun-24 03-Jul	24 22-Jan-	24 20-Feb-24	21		11.00				11 📕	.		(I I.		
DC.53.3130b	SCADA System Commissioning Test (Phase 3 PTF Construction)	30	0	DS-	0%	13-Jun-24	12-Jul-24	04-Jul-24 02-Au			21	1		1111			i ti 🎼	••••		et f		
DC.53.3140b	System Commissioning Test	30	0	DS-	0%	04-Jui-24	02-Aug-24				0							ч <u>ы</u> .		111		
	aural Works			0%		06-Way-24	17-Jul-24	23-May-24 02-Au			14				1			-				
DC.83.3110	Architectural Works (internal)	58	2	0%	0%	06-Vay-24		23-May-24 02-Au			14								-			
Temporary Flow				0%		14-Mar-24	06-Aug-24				0		L	4-1-4		4.4.4				(
DC.S3.1550s	Installation of Temporary Studge Thickening System	92	8	0%	0%	19-Mar-24	22-Jul-24				13							-		- i i i		
DC.S3.3150 DC.S3.3150	Temporary WAS Pipe Construction from MBR to Studge Digestor Building with temp pre-thickening system	23	2	0%	0%	14-Mar-24	12-Apr-24 28-Jur-24	08-May-24 03-Jun			42							JT 🔐 🗌		(
DC.S3.3160 DC.S3.3170	Temporary saverage pipe from existing manhole FWH7000149 to manhole FWH21 to isolate intel Chamber Temporary Rev Disprint to institute actification institutes institute for the formation.	42	3	0%- 0%-	0%	06-Vey-24 03-Auc-24	28-Jur-24 06-Aug-24	09-May-24 03-Jul 03-Aug-24 06-Au			3						i H 📭					
	Temporary Row Diversion to isolate existing and minary leastment system 0-month performance verification (At least 9 months before End of S3)	4		0%.	0.0	03-Aug-24 07-Aug-24	00-40g-24 07-May-25	03-Aug-24 00-Ab 07-Aug-24 07-Ma			0		1.0					T -	╧┷╇	-		
DC \$3,3180	30-month performance verification (At least 9 months before End of 5.3) 30-month performance verification (At least 9 months before End of 52) (Period from (th to 9th month)	274	0	DN-	0%	07-Aug-24 07-Aug-24		07-Aug-24 07-Ma 07-Aug-24 07-Ma			0			H-l-l		4-444	rth 🎼	1	فاستعل	in de la des		(m. m) m m)
	summer performance rendeation (wheat a months before End or 52) (Pendo from the to set month) of Underground Utilities	274	U	DN.		07-Adg-24 06-Way-24	22-Jur-24	16-May-24 03-Jul			8				1					1 I I.		
DC S3.3250	Construction underground utilities for MBR Treatment Facilities and Perliminary Treatment Facilities	35	2	DN-	0%	06-9ay-24		16-May-24 03-Jul			8				1					111		
	nolition of existing Preliminary Treatment System			DN.		07-Jun-24	18-Ocl-24	20-Jun-24 09-No			22						i li 📕	- II	÷	6 F F		
DC \$3,4010	Demolition of existing interputing station, preliminary treatment facilities & primary sedment tank	24	0	0%	0%	07-Aut-24		07-Aug-24 03-Se			0		1.1					ų •				
DC 53.4020	Modification of Intel Chamber	55	4	D%	0%	07-Aug-24		29-ALg-24 09-No			19		1-12-	1		+-+++	dt 🕇		4	rt-t-		
									and open			ш	1 153			<u> </u>		1				
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- Prir	nary Baseline	DC/201	9/07 OL	JTLYING	ISLANDS SEWERAGE STA	GE2 - UPG	RADING	OF CHEUNG	HAU SEW	AGE TREAT	MENT AND	DISPOS	AL FA	SILITIES	, -	30-Nov		Rev. 20				pored
Act	ual Work				REVISE	D PROGR	RAMME	REV. 22 (2)	Februar	y 2023)											CL	
Re	maining Work	1						e 9 of 13)		,						31-Dec		Rev. 21		JL	CL	
							(+ a9								1	28-Feb	-23	Rev. 22	2	JL	CL	
	tical Remaining Work																					
Satisfy the second s	seline Milestone																					



tvity ID	Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed X	Actual Workdone 5	Actual Start	Actual Finish	Early Start	Early Finish	Lille Start	Late Finish	Early Start (Rev. 20)	Early Finish (Rev. 20)	Total Amendee Float Activities	2021	1 04 01 0	2022	2023	20	01 04 0	2025	2026 4 Q1 Q2 Q3
DC 83.4025	Notification to CLP for Demolition of Existing Transformer House	1	0	0%	0%			07-Jun-24	07-Jur-24	20-Jin-24	20-Jun-24	06-Feb-24	10-Feb-24	13			(T T		
DC 53.4030	Demolition of existing Transformer House	38	3	0%	0%			07-Aug-24	25-Sep-24	20-ALg-24	09-Oct-24	24-Apr-24	14-Jun-24	-11			$\pm \pm N$			P		
DC 53.4031	Ground Investigation (7 nos, 1 rig, 1 team)	22	2	0%	03,			07-Aug-24	03-Sep-24		03-Sep-24	18-May-24	15-Jun-24	0					-		1 1 1	
	Disconnecting data link of removed existing equipment from the existing SCADA system (Phase 4 Demolition Existing PTS)	4	3	DN-	0%			20-Sep-24		03-Nov-24	09-Nav-24	03-Jul-24	09-JLI-24	44	_		1.1.			211		
	struction of Remaining Buildings			42.51%		12-Jul-21		12-Jul-21 A	13-May-25	11-Jin-22	13-May-25	12-Jul-21	02-061-25	0			1 1 1				T 1 1	
Construction of Chill& Structural	I WAS Storage Tank of Sludge Centrifuge House			0%				02-Jan-24 02-Jan-24	30-Nov-24	24-Jan-24 24-Jan-24	23-Dec-24 23-Dec-24	30-Nov-23 30-Nov-23	07-Nov-24 07-Nov-24	19			1 1 1					
DC.53.3190	Piling works for pre-bored sockal H-piles (14 ros. dia.010 x 14m, 1 learns)	25		DS-	05			02-Jan-24	05-Feb-24		23-Dec-24	30-409-23 30-409-23	06-Jan-24	19								
DC 53 3200	Installation of sheet offeet added representations of extension of sheet offeet and Proof Drill	32	2	DS.	0%			02-281-2- 08-Esh-24	16-Har-24		12-Apr-24	08-Jan-24	22-5ab-24	19	-				I.d			
DC.83.3201	Plie Leading Test of Tension Pile	6	1	0%	0%			15-Mar-24	25-Har-24	13-Apr-24	20-Apr-24	23-Feb-24	0'-Mar-24	19) 수						
	Excavation and installation of ELS for WAS Storage Tank	80	2	0%	0%			28-Mar-24	13-Jun-24		06-Jul-24	02-Mar-24	20-May-24	19								
DC.\$3.3220	Construction of RC Structure (below ground)	70	1	0%	0%			14-Jun-24	05-Sep-24		28-Sep-24	21-May-24	13-Aug-24	19								
DC.S3.3250	Removal of formworks, fakeworks, application of waterpropring, backfilling and removal of ELS	12	2	0%	0%			05-Sep-24	23-Sep-24	30-Sep-24	17-0ct-24	14-Aug-24	28-Aug-24	19							1 1 1	
DC.SS.3240	Construction of RC Structure (above ground)	55	2	DS. 42.725	0%	12-Jul-21		24-Sep-24	30-Nov-24		23-Dec-24	30-Aug-24	07-Nov-24	19		tu L.				<u>11</u>		
	f Effluent Reuse Building prication and Delivery of Major E&M Equipment			42.72%		12-Jul-21		12-Jul-21 A 12-Jul-21 A	06-May-25 29-Sep-24		07-May-25 22-Nov-24	12-Jul-21 12-Jul-21	24-Feb-25 29-Aup-24	1	-							
DC.S3.5125a	Tentering of Subcontrator	45	0	100%	100%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-ALG-21 A	23747-23	22-1007-2-	12-Jul-21	25-Aug-21	-	-=							
DC.83.5125b	Equipment Submission and Approval	681	0	80.91%	40%	28-Aug-21		28-Aug-21 A		23-461-23	30-Aug-23	26-Aug-21	08-Jun-23	54	- L		<u> </u>					
DC.83.5130a	Procurement	90	0	0%	0%			08-Jul-23	05-Oct-23	31-4-9-23		07-Jun-23	04-Sep-23	54			1.1	-			1 1 1	
DC.83.5130b	Fabrication	240	0	0%	0%			06-0ct-23	01-Jun-24		25-Jul-24	05-Sep-23	01-May-24	54				│ │\ \				
	Deirey	120	0	0%	0%			02-Jun-24	29-Sep-24		22-Nov-24	02-May-24	28-Aug-24	54			1 1 1					
Civil & Structural V	Works			0%				04-Sep-24	19-Dec-24		20-Dec-24	17-Jun-24	12-Oct-24	1			1 1 1					
DC.S3.5142a DC.S3.5142b	Installation of spec pile well of ELS (55 nos. dis223 x 8m, 1 teem) Proof Drill	12 T	1	DN- DN-	03, 03,			04-Sep-24	19-Sep-24 30-Sep-24		20-Sep-24 05-Oct-24	17-Jun-24 11-Jul-24	13-Jul-24 24-Jul-24	1	-11		+ + 1					
DC.S3.51426 DC.S3.5150	Proof Drill Grout Curtain Works	11		DS- DS-	0%		-	20-Sep-24 20-Sep-24			05-0ct-24 05-0ct-24	11-Jul-24 11-Jul-24	24-Jt1-24 24-Jt1-24	-						3		
DC.83.5160	Installation of ELS and Excevation for besoment(970m3 exce, 1team)	11	1	0%	0%			05-Oct-24	19-Oc1-24		21-0d-24	25 Jul-24	07-Aug-24	1			1 I I					
DC.S3.5170	Construction of RC structure (below ground, 437m3)	22	1	0%	0%			21-0ct-24	15-Nov-24		16-Nov-24	08-Aug-24	04-Sep-24	1						4		
DC.S3.5180	Removal of formworks, fakeworks, application of waterproving, backfilling and removal of ELS	5	1	0%	0%			16-Nor-24	22-Nov-24	18-Nov-24	23-Nov-24	05-Sep-24	1 -Sep-24	1						₩		
DC.S3.5190	Construction of RC Structure (above ground, 213m3)	22	1	0%	0%			23-Vor-24	19-Dec-24	25-Nov-24		12-Sep-24	12-Oct-24	1		NUL.	4.4.1			⊨	1.1.1.	
E&M Works				0%				22-Nor-24	06-May-26		07-Nay-26	12-Stp-24	24-Feb-25	1		9115					T	
DC.S3.5210	E&V(LVSB and BS Installation (UV system, Chemical tanks and dosing system and etc.)	67	5	D%	03,			22-Nor-24			21-Feb-25	12-Sep-24	07-Dec-24	1	_							
DC.S3.5220a DC.S3.5220b	SCADA System Site Acceptance Test (Press 6 Effuent Reuse Construction)	60 60	0	DN- DN-	0% 0%			07-Jan-25 08-Mar-25	07-Har-25		08-Mar-25	29-Oct-24	26-Dec-24 24-Feb-25	1	_		111				<u>- 1 1</u>	
DC 53 52306	SCADA System Commissioning Test (Phase 5 Effuent Reuse Construction) System Commissioning Test	30	0	0%	0%			05-M8r-25 07-Apr-25	06-May-25 06-May-25		07-May-25 07-May-25	27-Dec-24 27-Dec-24	24-Feb-25	1	_							
Internal Architoct		34	0	DN.	0.0			20-Dec-24	10-Apr-25		07-Nov-25	14-Oct-24	D'-Eeh-25	19							+	
DC.83.5200	Architectural Works (Internal)	84	6	0%	0%			20-Dec-24	10-Apt-25	15-Jan-25	07-60y-25	14-Oct-24	0'-Feb-25	19			111					
	Sludge Centrifuge Building & Genset and Fuel Tank Rooms			42.51%		12-Jul-21		12-Jul-21 A	13-May-25	14-May-23	13-May-25	12-Jul-21	08-Apr-25	0	-						17	
	prication and Delivery of Major E&M Equipment			50.25%		12-Jul-21		12-Jul-21 A	09-Cc1-24	14-May-23	23-Dec-24	12-Jul-21	08-Sep-24	75	-							
DC.S3.5005a	Tenciering of Subcontrator	45	0	100%	100%	12-Jul-21	25-Aug-21	12-Jul-21.A	25-ALG-21 A			12-Jul-21	25-Aug-21				-4				<u></u>	
DC.S3.5005b	Equipment Submission and Approval	691		79.74%	43%	28-Aug-21		26-Aug-21 A	17-Jul-23		30-Sep-23	26-Aug-21	16-Jun-23	75								
DC.S3.5010a	Procurement.	45	0	0%	0%	20-Aug-21		18-Jui-23	31-Aug-23	01-Oct-23	14-Nov-23	17-Jun-23	31-Jul-23	75								
DC.53.5913a DC.53.5913b	Procurament. Fabrication	45 225		0% 0%	0% 0%	28-Aug-21		18-Jui-23 01-Sep-23	31-Aug-23 12-Apr-24	01-00-23 15-Nov-23	14-Nov-23 26-Jun-24	17-Jun-23 01-Aug-23	31-Jul-23 12-Mar-24	75 75								
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DC.83.5912a DC.83.5912b DC.83.5912b DC.83.5912c DC.83.5022a DC.83.5020 DC.83.5040 DC.83.5955 DC.83.5955	Rodarovni, Deletry Media Regi ochs for pre-base socks H-piles (24 rox, distil 0 x fbr, filean) Installator d dbs cille out of EES (35) rox, dist23 x 8/n, fitteme; Oraci Julini Media Decording rownang ank (33) rd exist. Name(Decording rownang ank (33) rd exist. Name(Decording rownang ank (33) rd exist. Name(Decording rownang ank (33) rd exist. Name(45 225 190 20 12 9 11 22	0	0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0%	28-Aug-21		18-Jui-23 01-Sep-23 13-Apr-24 28-Aut-24 28-Aut-24 10-Sep-24 26-Sep-24 08-00-24 24-00-24	31-Aug-23 12-Api-24 09-Ocl-24 23-Dec-24 21-Sep-24 25-Sep-24 08-Ocl-24 08-Ocl-24 23-Ocl-24 19-Noy-24	01-00-23 15-Nov-23 27-Jun-24 28-Aug-24 28-Aug-24 10-Sep-24 28-Sep-24 28-Sep-24 03-00-24 24-00-24	14-Nov-23 26-Jun-24 23-Dot-24 23-Dot-24 21-Sep-24 25-Sep-24 28-Dot-24 23-Dot-24 19-Nov-24	17-Jun-23 01-Aug-23 13-Mar-24 08-Jun-24 08-Jun-24 29-Jun-24 29-Jul-24 19-Aug-24 02-Sap-24	31-Jul-23 12-Mar-24 08-Sop-24 21-Nov-24 11-Jul-24 27-Jul-24 17-Aug-24 31-Aug-24 31-Aug-24 30-Sop-24	75 75 75 0 0 0 0 0 0 0 0 0								
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uy uz			1000 (00)		Workdone %	Prode Hiller					20)	(Rev. 20) Fice		Q1 02 03	Q4 Q1 Q2 Q3	Q4 Q1	02 03 04	Q1 Q2 Q3 Q4	01 02 03	13 Q4 Q1	02 03 04
DC.83.5240g	Procurement of FRP water tanks	150	0	0%	0%		30-Jun-23	26-Nov-23	07-Oct-23	04-Mar-24	30-May-23	26-Oct-23 89									
DC.S3.5240h	Fabrication of FRP water tanks	200	0	0%	035		27-Nov-23	13-Jur-24	05-Mar-24	20-Sep-24	27-Oct-23	13-May-24 89								1 1	
DC.83.5240i	Delivery of FRP water tanks	100	0	0%	0%		14-Jun-24	21-Sep-24	21-Sep-24	29-Dec-24	14-May-24	21-Aug-24 89				1		-		1 1	
DC.S3.5240j	Procurement of oumps	150	0	DN-	0%		30-Jun-23	26-Nov-23	07-Oat-23	04-b/ar-24	30-May-23	26-Oct-23 99				1 1 1	•			1.1	
DC.53.5243k	Fabrication of pumps	200	0	DN-	0%		27-Nor-23	13-Jur-24	05-Mar-24	20-Sep-24	27-Oc1-23	13-May-24 99									
DC.53.5240I	Belivery of pumps	100	0	DN-	0%		14-Jun-24	21-Sep-24	21-Sep-24		14-May-24	2'-Aug-24 99								1 1	
Civil & Structural	Works			0%			04-Sep-24	18-Dec-24	28-Sep-24	14-Jan-25	17-Jun-24	05-Nov-24 20				11					
DC.83.5250	Installation of pipe pile well of ELS (82 nos. dia323 x 12m, 1team) and Sheatpile (56 nos FSPIII sheetpile x8m)	20	1	0%	0%		04-Sep-24	27-Sep-24		23-0ct-24	17-Jun-24	28-Jul-24 20				11				1 1	
DC.83.5260	Grout Curtain Works	9	1	0%	0%		20-Sep-24	02-Oct-24	16-Oct-24	26-0ct-24	22-Jul-24	10-Aug-24 20			i i i i i	1					
DC.83.5270	Installation of ELS and excavation for basement (940m3 exca, 1team)	12	1	0%	0%		03-0ct-24	18-Oct-24	28-Oct-24	11-Nov-24	12-Aug-24	31-Aug-24 20				111		14		1 1	
DC.\$3.5280	Construction of RC structure (below ground, 512m3)	22	1	0%	03,		19-Oct-24	14-Nov-24	12-Nov-24	07-Dec-24	02-Sep-24	30-Sep-24 20								-i -i	r i i
DC.53.5290	Removal of formworks, falseworks, application of waterpropring, backfilling and removal of ELS	5	1	DN-	0%		15-\\o+-24	21-Nov-24	09-Dec-24	14-Dec-24	02-Oct-24	08-Oct-24 20				1		H H		1 1	
DC.53.5300	Construction of RC Structure (above ground, 328m3)	22	1	DN-	0%		22-\\o+-24	18-Dec-24	16-Dec-24	14-Jan-25	09-Cc1-24	06-Nov-24 20								1 1	
E&M Works				DN-			21-\\or-24	09-Apr-25	30-Dec-24	07-May-25	08-Cc1-24	12-Mar-25 28									
DC.83.5320	E&HLVSB and 3S Installation (pumps and associated pipe works)	87	5	0%	0%		21-107-24	19-Feb-25	30-Dec-24		06-Oc1-24	04-Jan-25 31						1	71	1 1	
DC.83.5330	She Acceptance Test	30	0	0%	0%		01-Feb-25	02-Har-25		07-Apr-25	14-Dec-24	12-Jan-25 36				± 1(1 1	
DC.83.5340b	System Commissioning Test (Final Testing)	30	0	0%	0%		11-Mar-25	09-Apr-25		07-May-25	13-Jan-25	13-Mar-25 28				111					
Internal Architect				0%			19-Dec-24	09-Apr-25	15-Jan-25	07-May-25	07-Nov-24	28-Feb-25 20				11				1 1	
DC.S3.5310	Architectural Works (internal)	84	6	0%	03,		19-Dec-24	09-Apr-25	15-Jan-25	07-May-25	07-Nov-24	26-Feb-25 20			H	4	-++-+			. i	
	f Dangerous Goods House	41		0%	-		26-Sep-24	26-Apr-25	10-001-24	13-May-25	17-Jun-24	28-Mar-25 17				11				1 1	
DC.S3.5350	Installation of ELS and excavation for basement(48nos FSPIII x 9m, 70m3 excs, 1team)		1	0%	03,		26-Sep-24	10-Oct-24	10-0st-24	24-Oct-24	17-Jun-24	29-Jun-24 11				1 ([4 1	
DC.S3.5360	Construction of RC structure (below ground, 34m2)	15	1	DS-	0%		12-0ct-2-	02-Nov-24	25-Oct-24	15-Nov-24	02-Jul-24	05-Aug-24 11				111				1 1	
DC.S3.5370	Backfilling to ground level and removal of ELS	8	1	0%	0%		04-%07-24	13-Nov-24	16-Nov-24	26-Nov-24	06-Aug-24	19-Aug-24 11				111				1 1	
DC.S3.5380	Construction of RC Structure (above ground, 21m3)	18	1	0%	0%		14-\\07-24	05-Dec-24	27-Nov-24	18-Dec-24	20-Aug-24	24-Sep-24 11				÷ - N				- t t	
DC.83.5390	Architectural Works (internal)	21	1	0%	0%		06-Dec-24	03-Jan-25	19-Dec-24	16-Jan-25	25-Sep 24	31-Oct-24 11				1 N I				1 1	
DC.83.5400a	E&W installation and testing	45	2	0%	0%		04-Jan-25	03-Har-25	17-Jan-25	15-Mar-25	01-Nov-24	03-Feb-25 11				÷ 1)				1 1	
DC.S3.5400b	DC inspection by FSD	28	0	0%	63,		30-Mar-25	26-Apr-25	16-Apr-25	13-May-25	20-\far-25	28-Mar-25 17				1 11				1 1	
Roadworks & L	Inderground Utilities (Permanent pipeworks, Sewerage System, Road Drainage System)			0%			29-Feb-24	12-May-25	08-May-24	13-May-25	31-Oct-23	18-Mar-25 1				11				1	
DC.S3.5410	Main access batween MBR & PTF	70	2	0%	0%		29-Feb-24	29-May-24	08-May-24		31-Oct-23	25-Mar-24 54							+ 1		
DC.S3.5420	Main access ballwarn PTF. Ellburnt Reuse Building, FS Purr proom and Pumproom	55	5	0%	0%		15-0cl-24	23-Dec-24	09-Nov-24	21-Jan-25	10-Scp-24	21-Nov-24 22				1)		"}#	14 B	1 1	
DC.S3.5430	Main access batwash Administration Building & Inlet Chambor	55	2	0%	0%		04-Sop-24	15-Nov-24		07-May-25	17-Jun-24	28-Aug-24 13				11				1 1	
DC.S3.5440	Main access between Studge Centrifuge Building & Studge Digestor Building	55	2	0%	0%		04-Sep-24	15-Nov-24		07-May-25	17-Jun-24	28-Aug-24 13	3			11		++		1 1	
DC.83.5450	Permanent Row Diversion	4	1	0%	0%		07-Hay-25	12-May-25	08-May-25		14-Mar-25	16-Mar-25 1				111				1 1	
DC.S3.5470	Construction of EVA and Signage	58	2	0%	0%		04-Feb-25	04-Apr-25	01-Mar-25	29-Apr-25	29-Dec-24	26-Feb-25 25		l a da da da	H						
Sludge Dowate	ring House			23.09%	15-Au	R-22	15-Aug-22 A	02-Feb-25	11-Jin-22	13-May-25	31-Jul-22	02-Oct-25 10			HI I 17					1	
DC.S3.5460	A&A works of Studge Devisioning House	168	12	0%	0%		08-Aug-23	14-Bar-24		14-b/ar-24	20-Jan-23	29-Aug-23 0				<u> </u>				1	
DC.S3.5460a	Equipment Submission and Approval	397	9	49.62%	0% 15-Au		15-Aug-22 A	15-Sep-23	11-Jin-22	27-Dec-22		-26	2		11 F				1000	1	
DC.S3.5470a	Procurement	1	0	100%	100% 29-Da		26-Dec-22 A	28-Dec-22 A			31-Jul-22	31-Jan-23			III - "~	÷+				1 1	
DC.S3.5470b	Fabrication	350	0	7.78%	0% 31-Ja	1-23	31-Jan-23 A	25-Jar-24	08-Jun-23		01-Feb-23	31-Dec-24 10									
DC.83.5470c1	Delivory	59	0	0%	0%		28-Jan-24	24-Har-24		02-Jul-24	01-Jan-25	0'-Mar-25 10									
DC.93.5470c2	Installation of E&M, MCC & BS Equipment	270	0	0%	0%		25-Mør-24	19-Dec-24	03-Jul-24	29-Mar-25	19-Oct-23	18-Aug-25 10					111			4 1	
DC.S3.5480a1	Testing and commissioning	30	0	0%	0%		20-Dec-24	18-Jar-25	30-Mar-25	28-Apr-25	19-Aag-25	17-Sep-25 10							911 7	- 1	
DC.S3.5480a2	Decommissioning of Existing E&M Equipment and MCC	7	0	0%	0%		19-Jan-25	25-Jar-25	29-Apr-25	05-May-25	18-Sep-25	24-Sep-25 10								ř	
DC.S3.5480s3	Installation of MCC for FS pumping station and Gabling Works	8	0	D%;	03,		26-Jan-25	02-Feb-25		13-blay-25	25-Sep-25	02-Oot-25 10								<u></u>	
Administration				17.4E%	30-Se	p-22	30-Sep-22 A	10-Feb-25	03-Jin-23	13-May-25	30-Sep-22	04-Oct-24 92									
DC.S3.5430	A&A works of Administration Building	224	16	DN-	0%		28-3th-23	19-Aug-24		21-Nov-24	27-Jun-23	17-Apr-24 78									
DC.S3.5500a	Procurement of EL Equipment	213	0	70.89%	30% 33-Se	p-22	30-Sep-22 A	30-Apr-23	03-Jun-23	03-Aug-23	30-Sep-22	28-Dec-22 95					1 1				
DC.93.5500b	Fabrication of EL Equipment	150	0	0%	0%		01-¥ay-23	27-0cl-23	04-Asg-23	30-Jan-24	29-Dec-22	28-Jun-23 85									
DC.83.5500c	Delivery of EL Equipment	120	0	0%	0%		28-Oct-23	24-Feb-24	31-Jan-24	29-May-24	27-Jun-23	24-Oct-23 95									
DC.S3.55006	Procurement of Santary Fitments	30	0	0%	0%		20-Aug-24	18-Sep-24	22-Nov-24	21-Dec-24	18-Apr-24	17-May-24 94									
DC.S3.5500e	Esbrication of Santary Fitments	50	0	0%	0%		19-Sep-24	07-Nov-24		09-Feb-25	18-May-24	08-Jul-24 94							1	91 I	
DC.S3.5500f	Delivery of Sanitary Firments	10	0	0%	0%		08-\\o-24	17-Nov-24	10-Feb-25	19-Feb-25	07-Jul-24	16-Jul-24 94				1					
DC.S3.5500g1	BS Installation	25	2	DN-	0%		18-\\o:-24	21-Dec-24		26-b/ar-25	17-Jul-24	20-Aug-24 75				11					
DC.S3.5500g2	Electrical Installation	25	2	DS-	0%		18-\\o <u>+</u> -24	21-Dec-24	20-Feb-25	26-b/ar-25	17-Jul-24	20-Aug-24 75				444-				444	
DC.S3.5500g3	Control and SCADA Installation	25	2	DS-	0%		18-\\o+-24	21-Dec-24	20-Feb-25	26-Mar-25	17-Jul-24	20-Aug-24 75								11	
DC.S3.5500h	Completion of all the works in the new control room	0	0	D.S.	0%			21-Dec-24		26-Mar-25		20-Aug-24 95				3					
DC.83.5510a	Relocation of existing SCADA equipment from existing control room to new control room	7	0	0%	0%		23-Dep-24*	02-Jan-25		03-Apr-25	21-Aug-24	28-Aug-24 75				11					
DC.83.5510b	Vacating the existing control room and A&A Works	30	0	0%	0%		03-Jan-25	10-Feb-25		13-May-25	29-Aug-24	04-Oct-24 75				IN D					
A&A of existing	outfall pumping station and header tank			0%			04-Sep-24	01-May-25	17-Sep-24	13-May-25	17-Jun-24	27-Feb-25 12			4-4-4-	1. \ .	-++			. i. j i. j.	
DC.S3.5520	A&A works of existing outfall pumping station and header tank	63	2	0%	03,		04-Sep-24	18-Nov-24	17-Sep-24	30-Nov-24	17-Jun-24	16-Sep-24 11				11		4-41	1		
DC.S3.5530s	Procurement	20	0	0%	03,		19-\\or-24	08-Dec-24	01-Dec-24	20-Dec-24	17-Sep-24	06-Oct-24 12		0 1 1						11	
DC.S3.5530b	Fabrication	64	0	D%-	0%		09-Dec-24	10-Feb-25		22-Feb-25	07-Oct-24	09-Dec-24 12									
DC.S3.5530c	Delivery and Installation	23	0	0%	03.		11-Feb-25	02-Har-25	23-Feb-25	14-Mar-25	10-Dec-24	29-Dec-24 12		0 1 1 1						11	
DC.S3.5540	Testing and commissioning	60	0	0%	0%		03-Mar-25	01-May-25	15-Mar-25	13-May-25	30-Dec-24	27-Feb-25 12				÷ / []					
	Emergency overflow chamber			0%			24-Aug-24	20-Apr-25	16-Sep-24	13-May-25	15-May-24	10-Mar-25 23				1/1				11 I	
DC.83.5550a	Procurement of E&M Equipment	30	0	0%	0%		24-Aug-24	22-Sep-24	16-Sep-24	15-0ct-24	15-May-24	13-Jun-24 23				10					
DC.83.5550b	Fabrication of E&M Equipment	120	0	0%	0%		23-Sep-24	20-Jar-25	16-Oct-24	12-Feb-25	14-Jun-24	10-Dec-24 23				11		⁴ + 1		11	
DC.S3.5550c	Delivery and Installation of E&M Equipment	30	0	0%	0%		21-Jan-25	19-Feb-25	13-Feb-25	14-b/ar-25	11-Dec-24	08-Jan-25 23		0 1 1					HE L		
DC.S3.5550c	Testing and Commissioning	30	9	0%	6%		22-Mar-25	20-Apr-25	14-Apr-25	13-May-25	09-Feb-25	10-Mar-25 23							¥+••		
E&M Submissi	on and inspection for permanent water supply, power supply and fire services works			38.89%	14-05	s21	14-0ct-21 A	26-Apr-25	28-Feb-23	13-May-25	14-Oct-21	29-Mar-25 17				1				11	
		Darchi															Date	Revisi		Chec	Approve
	mary Baseline	DC/201	9/07 OL		SLANDS SEV	VERAGE STA	GE2 - UPG	RADING	OF CHEU	ING CHA	U SEWAC	E FREATME	NT AND D	ISPOSAL F	ACILITIES	20	Nov-22	Rev. 20	J		
Act	lual Work					REVISE	D PROGR	RAMME -	REV. 2	2 (28 Fe	bruarv 3	2023)									
Po	maining Work								11 of 13		, ·	,					-Dec-22	Rev. 21	J		
								(r age	110110	/						28	Feb-23	Rev. 22	JI	L C	iL 👘
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CLS 35.70 PH CLS 35.700 PH CLS 35.800 PH CLS 35.800 VE CLS 35.800 PE CLS 35.800 PE CLS 35.800 PE CLS 35.800 PE CLS 35.800 SE CLS 35.800 SE CLS 35.800 SE CLS 35.801 SE CLS 35.700 PE CLS 35.700 PE CLS 35.700 PE CLS 35.700 PE CLS 35.7760 SE CLS 35.7760 SE CLS 35.77674 SE CLS 35.77675 SE CLS 35.77675 SE <t< th=""><th>pendion and approval of WWO Se2 submession (FB system) spendion and approval of WWO Se2 submession (FB system) spendion and approval of WWO Ge a summersion (FB system) spendion and approval (FWO Ge a summersion (FB system) Bit Inpecion FB system) (GM Ge automatics) (Fe stating system) Bit Inpecion FB system) (GM Ge automatics) (Fe stating system) pendion and approval (GM Ge automatics) (Fe stating system) mession of Fron 114, 6(d) and 6(d) after COSTIV Insection (FG CM) (Final Integrating) Insection (FG CM) (Final Integrating) ADAE submersion and Approval toxication bears) ADAE submersi resultation (Fmers 15 stating Computed) ADAE submersi resultation (Fmers 15 stating Computed) ADAE</th><th>265 279 224 278 10 10 449 183 183 183 183 183 183 14 10 12 10 249 30 416</th><th>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th><th>100% 100% 623% 963% 0% 99,55% 153% 153% 153% 0% 0% 0%</th><th>Workdama 5 100% 100% 30% 30% 90% 90% 90% 90% 90% 90% 90% 90% 90%</th><th>07-Jan-22 14-Oct-21 29-Sep-22 31-Aug-22 08-Dec-21 31-Jan-23 31-Jan-23</th><th>28-Sep-22 20-Jul-22</th><th>07-Jan-22 A 14-Oct-21 A 29-Sep-22 A 31-Aug-22 A 28-Jan-25* 20-Feb-25 06-Deo-21 A</th><th>30-May-23 06-Feb-25 01-Mar-25</th><th>28-Way-23 28-Way-23 19-Fet-25 06-Aur-25</th><th>27-Aug-23</th><th>28) 07-Jan-22 14-Oct-21 29-Sep-22 31-Aug-22 28-Jan-25</th><th>Early Time Time Ammende Zora Call Off Call Call Off Call Call Call Call Call Call Call<th></th><th></th></th></t<>	pendion and approval of WWO Se2 submession (FB system) spendion and approval of WWO Se2 submession (FB system) spendion and approval of WWO Ge a summersion (FB system) spendion and approval (FWO Ge a summersion (FB system) Bit Inpecion FB system) (GM Ge automatics) (Fe stating system) Bit Inpecion FB system) (GM Ge automatics) (Fe stating system) pendion and approval (GM Ge automatics) (Fe stating system) mession of Fron 114, 6(d) and 6(d) after COSTIV Insection (FG CM) (Final Integrating) Insection (FG CM) (Final Integrating) ADAE submersion and Approval toxication bears) ADAE submersi resultation (Fmers 15 stating Computed) ADAE	265 279 224 278 10 10 449 183 183 183 183 183 183 14 10 12 10 249 30 416	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100% 100% 623% 963% 0% 99,55% 153% 153% 153% 0% 0% 0%	Workdama 5 100% 100% 30% 30% 90% 90% 90% 90% 90% 90% 90% 90% 90%	07-Jan-22 14-Oct-21 29-Sep-22 31-Aug-22 08-Dec-21 31-Jan-23 31-Jan-23	28-Sep-22 20-Jul-22	07-Jan-22 A 14-Oct-21 A 29-Sep-22 A 31-Aug-22 A 28-Jan-25* 20-Feb-25 06-Deo-21 A	30-May-23 06-Feb-25 01-Mar-25	28-Way-23 28-Way-23 19-Fet-25 06-Aur-25	27-Aug-23	28) 07-Jan-22 14-Oct-21 29-Sep-22 31-Aug-22 28-Jan-25	Early Time Time Ammende Zora Call Off Call Call Off Call Call Call Call Call Call Call <th></th> <th></th>		
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C \$3 5730 De C \$3 5770 Pre C \$3 5770 Pre C \$3 5775a* SC C \$3 5775a2 SC C \$3 5775a2 SC C \$3 5775a5 SC C \$3 5775a5 SC C \$3 5775a5 SC C \$3 5775a7 SC			0	39.9%	39%	15-Sep-22		15-Sep-22.A	04-Nov-23	22-War-23	26-Nor-23	15-Sec-22	18-Jan-23 22		
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C.53.577562 SC C.53.577563 SC C.53.577564 SC C.53.577565 SC C.53.577565 SC C.53.577567 SC C.53.577567 SC		540	0	64.05%	60%	04-Jun-22		64-Jun-22 A	28-Jul-23	20-Jun-23	17-Nov-23	04-Jun-22	03-Feb-23 112		
C.53.577562 SC C.53.577563 SC C.53.577564 SC C.53.577564 SC C.53.577565 SC C.53.577565 SC C.53.577567 SC C.53.577567 SC		30	0	0%	0%			10-Aug-23	08-Sep-23	19-Sep-23	18-Oct-23	28-Jul-23	24-Aug-23 40		
C.52.577562 SC C.52.577564 SC C.52.577565 SC C.53.577565 SC C.53.577567 SC C.53.577567 SC C.53.577567 SC	ADA equipment installation (Phase 3 PTF Construction)	30	0	0%	0%			26-Mar-24		04-Way-24		14-Dec-23	12-Jan-24 38		
C.S3.577504 SC C.S3.577505 SC C.S3.577505 SC C.S3.577507 SC C.S3.577507 SC	ADA equipment installation (Phase 1 MBR Construction)	30	0	0%	0%		-	15-Mar-24	13-Apr-24		13-Apr-24	31-Oct-23	29-Nov-23 C	/ 4	
C.SU 577505 SC C.SU 577508 SC C.SU 577507 SC C.SU 577507 SC C.SU 577507 SC	ADA equipment installation (Phase 5 Effluent Reuse Construction)	30	0	0%	0%			08-Dec-24	0E-Jan-25		08-fdar-25	29-Sec-24	25-0:124 6'		
0.83.577508 90 0.83.577507 90 0.83.577507 90	ADA equipment installation (Phase 5 Studge Centrillige Construction)	30	0	055	0%			24-Dec-24	22-Jan-25		02-Feb-25	22-Nov-24	21-Dac-24 1'		
0.83.577567 90 0.83.577567 90	ADA eculpment installation (Phase 5 Studge Dewatering System)	30	0	055	0%			21-Sep-24	21-Cc1-24		02-Feb-25	13-0:1-24	11-Nov-24 105		
0.83.5775c* 80	ADA ecubment installation (Section 2 at PSSPS)	30	0	055	0%			15-Mar-24	13-Apr-24		27-/pr-25	18-Feb 23	19-Mar-23 379		
	MDA System Site Acceptance Test (Phase 1 Sludge Digestor Building Construction)	30	0	055	0%			09-Sep-23	08-Cc1-23		17-Nov-23	25-Aug-23	23-Sep-23 40		
	connecting data link of removed existing equipment from the existing SCADA system (Phase 2 Site Clearance at PTE Area)	7	0	100%	100%	31-Jan-23	06-Feb-23	31-Jan-23 A	06-Feb-23 A			19-Jan-23	25-Jan-23	+-)	
	ADA System Site Acceptance Test (Phase 3 PTF Construction)	30	p	0%	0%			14-Vsy-24	12-Jun-24	04-Jun-24	03-Jul-24	22-Jan-24	20-Feb-24 2'		
	ADA System Site Acceptance Test (Phase 1 MBR Construction)	30	0	0%	0%			14-Ap-24	13-Hay-24		13-May-24	30-Nov-22	29-Deo-23 0	/ .	
	connecting data link of removed existing oculoment from the existing SCADA system (Phase 4 Demolition of existing PTF)	7	0	055	0%			20-Sep-24			09-Nov-24	03-Jt/-24	09-Jul-24 44		
	ADA System Site Accoctance Test (Phase 5 Elluent Rouse Construction)	30	0	055	0%			07-Jan-25	05-Feb-25		07-Apr-25	29-O:1-24	27-Nov-24 6'		
	ADA System Sile Acceptance Test (Phase 5 Studge Centrifuge Construction)	30	0	055	0%			23-Jan-25	21-Feb-25		04-Mar-25	22-Deo-24	20-Jan-25 1'	N 1	
	ADA System Site Acceptance Test (Phase 5 Sludge Dewatering System)	30	0	055	0%			21-Oct-24			04-Mar-25	12-Nov-24	11-Dec-24 105		4
	ADA System Site Acceptance Test (Section 2 of PSSPS)	30	0	055	055			31-Mar-24	28-Apr-24	14-Agr-25	13-May-25	06-Mar-23	04-Apr-23 379		
	ADA System Commissioning Test (Phase 1 Studge Digestor Building Construction)	30	0	055	055			09-0ct-23	07-Nov-23	18-Nov-23		24-Sec-23	23-Oct+23 40		
	ADA System Commissioning Test (Phase 3 PTF Construction)	30	0	055	0%			13-Jun-24			02-#ug-24	2'-Feb-24	21/den24 2*		
	ADA System Commissioning Test (Phase 1 HER Construction)	30	0	0%	0%			14-Vev-24	12-Jun-24	14-May-24		30-Deo-22	28-Jan-24 0	/ /	
	ADA System Commissioning Test (Phase 5 Effuent Reuse Construction)	30	0	0%	0%			05-Mar-25	0E-Apt-25		07-May-25	27-Dao-24	25-Jan-25 3'		
	ADA System Commissioning Test (Phase 5 Studge Centri use Construction)	30	0	0%	0%			22-Feb-25			03-Apr-25	21-Jan-25	19-Fab-25 1'	N	
	ADA System Commissioning Test (Phase 5 Studge Deviationing System)	30	D	0%	0%			20-307-24			03-Apr-25	12-Deo-24	10-Jac-25 105		
	ADA System Commissioning Test (Sector 2 at PSSPS)	30	n	055	0%			31-Mar-24			13-May-25	08-Mar-23	04-Apr-23 379		
	ADA equipment installation of SHWSTW	30	0	055	055			21-Sep-24			02-Feb-25	13-0::+24	11-Nov-24 105		
	ACS, Intercom, Radio)			055				07-Aug-24	04-Mar-25		03-Apr-25	25-Mtv-24	20-Dec-24 30	· · · · · · · · · · · · · · · · · · ·	
	uoment Submission and Approval	30	0	0%	0%			07-Aug-24*	05-Sep-24	06-Sep-24	05-Oct-24	25-May-24	23-Jun-24 30		
	curement	30	0	0%	0%			05-Sep-24	04-Dec-24		03-Jan-25	24-Jun-24	21-Sap-24 30		
	brication	15	0	0%	0%			05-Dec-24		04-Jan-25	18-Jan-25	22-Sec-24	05-Cc1-24 30	-	•
C.S3.5760 Da	lvery	15	P	0%	0%			20-Dec-24	03-Jan-25	19-Jan-25	02-Feb-25	07-Ocl-24	2'-Oci524 30		
	M Instaliation Works	60	0	0%	0%			04-Jan-25			03-Apr-25	22-O:1-24	20-Dac-24 30		
& M Manual & Tra	aining			055				01-Nor-24	04-Way-25	08-Jan-25	12-May-25	01-Auto-24	12-Dep.24 8		
	amission of draft C&M Manual	60	0	055	05			01-Noe-24*	30-Dec-24	08-Jan-25	08-Mar-25	01-Auto-24	29-Sep-24 68		
C.53.5765b Tra	ining to Client's Staffs	14	0	055	05			21-Ap25	04-Way-25	29-Aar-25	12-May-25	30-Sec-24	13-Qc1-24 8		
C.53.5765c Su	britiston of interim OSM Manual	60	0	055	055			31-Dec-24	28-Feb-25*	09-War-25		14-Oct-24	12-Deo-24 68		
	UE TO CEs	1.1	1.1	87.04%		18-Jan-22		18-Jan-22 A	28-Apr-23		20-May-23	18-Jan-22	19-Apr-23 17	<u>→ → <mark>\</mark> → </u>	
CS3.6010 CE	-015. Abandonement Works for Existing 900mm Diameter Pige Connection to Marhole SHM7003180 and CCH7000000	8	1	100%	100%	13-May-22	20-May-22	13-May-22 A	20-Way-22 A			13-May-22	20-Way-22		
	-021,Pict Trial Leak Detection for Existing Manholes in Cheung Chau	162	4	100%	100%	17-Mar-22	28-Oct-22	17-Mar-22 A	20+083-221 A			17-Mar-22	08-0:1-22		<u></u>
	-032, Repair Works of Existing Studge Ramp	316	2	90.57%	90%	18-Jan-22		18-Jan-22 A		08-War-23	15-Apr-23	18-Jan-22	16-Jan-23 7		
	-144.Point Cloud Survey at Chaung Chau	72	3	100%	100%	15-Mar-22	17-Jun-22	15-Mar-22 A	17-Jun-22 A		Comprised.	15-Mar-22	17-Jun-22	<u> </u>	
	-050. Uncertround Utilities Sarvey and Water Intrusion Identification in Cheung Chau	153	2	100%	100%	18-May-22	17-Nov-22	16-May-22 A	17-Nov-22 A			16-May-22	17-Nov-22		
	-065. Additional Drillholes for Preliminary Treatment Facilities in CCSTW (Batch 1) (Total 7 nos.)	25	0	100%	100%	31-Jui-22	30-Aug-22	31-Jul-22 A	30 Aug-22 A			01-Aug-22	31.0:122		
	-005 Additional Drilholes for Preliminary Treatment Facilities in CCSTW (Batch 2) (Total 8 nos.)	30	0	100%	100%		30-Aug-22	28-Jul-22 A	30-Aug-22 A			30-Sec-22	2.Dec.22		
	-050, Additional Chimoles for Planming y Reduced in actives in Cocon (gatch 2) (Total anology -056, inspection Pt: Works for Water Instruction Indentification in Cheung Chau (Batch 1)	85	0	100%	100%	20-50-22 20-May-22	36-Aug-22	20-50-22 A	06-Aug-22 A			30-Sep-22	17-Dec-22		
	-091, inspection Pri, Morks for Water Instruston Indentification in Cheung Chau (Batch 2)	171	0	71.35%	33%	30-Sep-22		30-Sep-22 A		20-War-23	20-May-23	30-Sec-22	30-Mar-23 17		
	-194, inspection Pri, Morks for Water Instruston Internitication in Cheung Chau (Batch 3)	109	0	65.06%	055	15-Dec-22		15-Dep-22 A		20-Mar-23		15-Dec-22	18-4or-23 17		
19900180	SECTION 3	1.049		055				13-Ap-25	13-Han-25	13-Apr-25	13-May-25	20-Deo-24	08-4pr-25 D		•
	s-bandover meeting with DSD/ST2	1	0	055	05			13-Ap+25	13-Apr-25	13-Aar-25	13-Apr-25	20-Deo-24	20-Dep-24 0		<mark>↓</mark> ↓↓↓↓↓↓
	nandover meeting with DSD/ST2	1	0	055	0%			13-9p-25	13-Mpr-25	13-May-25	13-May-25	20-D80-24 19-Jan-25	20-De0-24 U 19-Jan-25 D		
	ncever meeting with USU/S12 mplation of Section 3 (Working Days)	0	0	0%	0%			10-96y-2D	13-Hay-25	10-May-2D	13-Mary-25	-9581920	08-Apr-25 D		
CTION 4	ubasou a logua o (uounilà galàs)	14 1	0	0%	0%			49 May 25	13-may-25	29 May 25	10-RBy-25	10. Jun 25	15 Out 25 T	1 1	
	ance Verification (At least 18 months End of S4)			0%				08-92y-25 08-98y-25	05-Feb-28 05-Feb-28	08-May-25	05-Feb-26	19-Jan-25	15-Oc+25 D	///////////////////////////////////////	
	y Baseline	DC/201	9/07 OU	JTLYING	ISLAND								E TREATMENT AND DISPOSAL FACILIT	ES Date Rev. 20	vision Chec Appr
Actual	Work						REVISED) PROGR	AMME -	REV. 2	2 (28 Fe	bruary 2	:023)	31-Dec-22 Rev. 21	JL CL
Rema	ining Work									2 of 13)					
	Remaining Work								190	v,				28-Feb-23 Rev. 22	JL CL



rity ID	Activity Name	Ori. Dur (d)	TRA (d) 1	ine Espeed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. 20)	Early Finish (Rev. 20)	Total Float	Amended 2021 Activities 01 02 03	2022 Q4 Q1 Q2 Q3 U		2023	2024	2025	2026	11 04
DC 84.1040	30-month performance verification (At least 18 months before End of S4) (Period from 9th to 18th month)	274	0	0%	0%			08-Vay-25	05-Feb-26	08-May-25	05-Feb-26	19-Jan-25	15-Oct-25	0			(
External Arch	itectrual			0%				14-Vay-25	04-Sep-25	08-Aug-25	01-Dec-25	08-Apr-25	05-Aug-25	88			\mathbf{N}					
DC S4.1010	External Architectural at MBR Treatment Facilities	90	6	0%	0%			14-¥ay-25	04-Sep-25	08-Aug-25	01-Dec-25	06-Apr-25	05-Aug-25	72						-		
DC 54.1100	External Architectural at Studge Digestor Building	60	4	0%	036			14-9ay-25	29-Jul-25	15-Sep-25	01-Dec-25	08-Apr-25	27-Jun-25	104								
DC S4.1110	External Architectural at Studge Centrifuge House	60	4	0%	03,			14-98y-25	29-Jul-25	15-Sep-25	01-Dec-25	08-Apr-25	27-Jun-25	104						-		
DC S4.1120	External Architectural at Preliminary Treatment Facilities	90	6	0%	03,			14-9sy-25	04-Sep-25	08-Aug-25	01-Dec-25	08-Apr-25	05-Aug-25	72					1	•		
DC \$4,1130	External Architectural at Effuent Reuse Building	30	2	DS-	0%			14-9ay-25	20-Jur-25	24-Oct-25	01-Dec-25	06-Apr-25	20-May-25	136						• <u>.</u>		
DC S4.1140	External Architectural at FS Pumproom and Pumproom	30	2	DS-	0%			14-9ay-25	20-Jur-25	24-Oct-25	01-Dec-25	06-Apr-25	20-May-25	136						÷		
DC S4.1150	External Architectural at Dangerou's Good House	30	2	0%	0%			14-9ay-25	20-Jur-25	24-Oct-25	01-Dec-25	06-Apr-25	20-May-25	136						+		
DC S4.1160	External Architectural at Studge Dewatering House	60	4	0%	0%			14-9ay-25	29-Jul-25	15-Sep-25	01-Dec-25	06-Apr-25	27-Jun-25	104								
DC 54.1170	External Architectural at Administration Building	40	2	0%	0%			14-May-25	03-Jul-25	13-Oct-25	01-Dec-25	08-Apr-25	02-Jun-25	126						÷		
andscaping.	Works & Imigation System			0%				14-98y-25	12-Xov-25	02-Oct-25	05-Feb-28	08-Apr-25	11-0et-25	85							+	
DC 54.1020	The site wide landscaping works	97	7	0%	0%			11-Jul-25	12-Xoy-25	02-Oct-25	05-Feb-28	10-Jun-25	11-Oct-25	70							H	
DC S4.1080	Installation of Intigation System	97	7	0%	0%			14-May-25	13-Sep-25	02-Oct-25	05-Feb-28	09-Apr-25	14-Aug-25	118				1.1				
Construction	of New Security Fence			0%				14-Wsy-25	27-Sep-25	06-Aug-25	05-Feb-26	09-Apr-25	28-Aug-25	106							7	
DC S4.1030	Demolition of Existing Boundary Wal	60	- 4	0%	0%			14-Yay-25	29-Jul-25	06-Asg-25	21-0ct-25	06-Apr-25	27-Jun-25	70		1.1.1.1.1.1				وي الم		
DC 84.1060	Construction of New Security Fence R.C. Structures	60	4	0%	0%			24-Jun-25	06-Sep-25	15-Sep-25	01-Dec-25	23-May-25	07-Aug-25	70						l 💻		
DC 54.1070	Installation of New Security Fence Metail Works	45	3	0%	0%			04-Aug-25	27-Sep-25	09-Dec-25	05-Feb-26	04-Jul-25	28-Aug-25	106						المراجع المراجع		
Completion o	f Section 4 (Working Day)			0%				15-Nor-25	05-Feb-26	06-Jtn-26	05-Feb-26	16-Stp-25	16-Oct-25	0								
DC 84.1041	Pre-handover meeting with DSD/ST2	1	0	0%	0%			15-Nor-25	16-Nov-25	06-Jan-26	06-Jan-26	16-Sep-25	18-Sep-25	<u>5</u> 2				1.1				
DC 84.1042	Handover meeting oilf: DSD/ST2	1	0	0%	03,			15-Dec-25	16-Dec-25	05-Feb-28	05-Feb-28	18-Oct-25	16-Oct-25	52			1		1 1		50 I	
DC S4.1050	Completion of Section 4	0	0	0%	03,				05-Feb-26*		05-Feb-26		16-Oct-25	0			<u> </u>				÷ •	
0-month perf	ormance verification (remaining 12 months after S4)			DS-				05-Feb-20	05-Feb-27	05-Feb-25	05-Feb-27	15-Oct-25	01-Jan-27	0								_
DC.PV.1010	32-month performance vertification (remaining 12 months after S4) (Period from 18th to 30th month)	365	0	0%	03,			05-Feb-26	05-Feb-27	05-Feb-28	05-Feb-27	16-Oct-25	15-Oct-26	0			U				4	
DC.PV.1020	Date of 12 months after S4	0	0	DS-	0%				05-Feb-27*		05-Feb-27		01-Jan-27	0			\mathbf{Y}					- i
DC.S3.5765d10	Submission of final O&M Manual	62	0	0%	03.			24-Fab-26	24-Apr-26	07-090-26	04-Feb-27	13-Dec-25	10-Feb-26	286		TEPROT	1				T La	

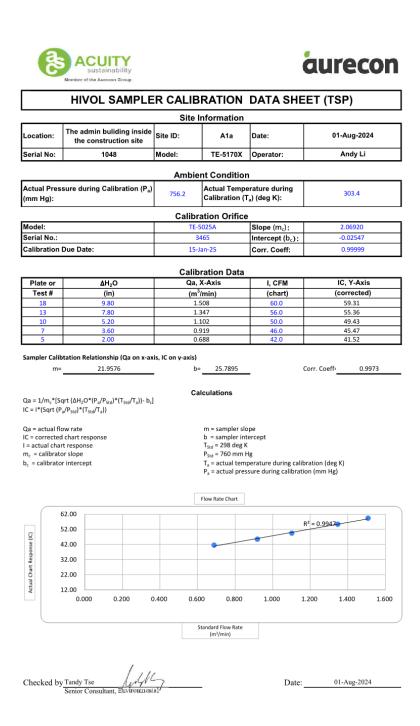
Primary Baseline	DC/2019/07 OUTLYING ISLANDS SEWERAGE STAGE2 - UPGRADING OF CHEUNG CHAU SEWAGE TREATMENT AND DISPOSAL FACILITIES	Date	Revision	Chec	Approved
-		30-Nov-22	Rev. 20	JL	CL
Actual Work	REVISED PROGRAMME - REV. 22 (28 February 2023)	31-Dec-22	Rev. 21		CI
Remaining Work	(Page 13 of 13)		Rev. 22	1	CL
Critical Remaining Work		2010020	1106 22	JL	102
♦ Asseline Milestone					

APPENDIX C Calibration Certificates (Air Monitoring)

15				7				ALIBRATION DUE DATE: ary 15, 2025
ıvir		2	a i cate	of	Cal	ibri	rtion	
			Calibration	Certificatio	on Informat	tion		
Cal. Date:	January 15	, 2024	Roots	meter S/N:	438320	Ta:	294	°K
Operator:	Jim Tisch					Pa:	755.9	mm Hg
Calibration I	Viodel #:	TE-5025A	Calil	brator S/N:	3465			0
		Vol. Init	Val Final	AVAL	A.T.			1
	Run	(m3)	Vol. Final (m3)	ΔVol. (m3)	∆Time (min)			
	1	(m5)	(m3)	(m3) 1	(min) 1.4350	(mm Hg) 3.3	(in H2O) 2.00	-
	2	3	4	1	1.0180	6.4	4.00	-
	3	5	6	1	0.9090	8.0	5.00	-
	4	7	8	1	0.8670	8.9	5.50	4
[5	9	10	1	0.7150	12.9	8.00	4
[)ata Tabulat	tion			í
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd	$-)(-\frac{1std}{Ta})$		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax		Va	(x-axis)	(y-axis)	
	1.0037	0.6995	1.420		0.9956	0.6938	0.8820	
ł	0.9996	0.9819	2.008		0.9915	0.9740	1.2473	
[0.9975	1.0973	2.245	52	0.9894	1.0885	1.3945	
[0.9963	1.1491	2.354	17	0.9882	1.1398	1.4626	
-	0.9909	1.3859	2.839		0.9829	1.3747	1.7639	
	OCTO	m=	2.069			m=	1.29570	
	QSTD	b= 	-0.025		QA	=b=	-0.01582 0.99999	
L L			01000			1-	0.55555	
ŀ	Vstd=//	Vol((Pa-AP)	/Pstd)(Tstd/Ta	Calculation		ΔVol((Pa-ΔF)/Pa)	
F		/std/ATime		/		Va/ATime	<u>][i.q]</u>	
t			For subseque	ent flow rate				
	Qstd=	1/т ((√дн(-	Pa Pstd (Tstd Ta)-b)	Qa=	1/m ((√∆H	(Ta/Pa))-b)	
-		Conditions]					
Tstd:	298.15 •					RECAL	IBRATION]
Pstd:	760 n	nm Hg			US EPA reco	mmends an	nual recalibratio	n nor 1009
H: calibrator			H2O)				egulations Part 5	
P: rootsmet							Reference Meth	
a: actual abs	olute temp	erature (°K)					nded Particulate	
Pa: actual bar	ometric pre	essure (mm H	Hg)				e, 9.2.17, page 3	
: intercept							-,, habe a	

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009



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Corr. Coeff= 0.9913

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	The existing ourtfall pumping station inside the construction site	Site ID:	A2a	Date:	01-Aug-2024
Serial No:	1085	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition						
Actual Pressure during Calibration (P _a) (mm Hg):		Actual Tempe Calibration (T		303.4		
Calibration Orifice						

Model:	TE-5025A	Slope (m _c):	2.06920
Serial No.:	3465	Intercept (b _c):	-0.02547
Calibration Due Date:	15-Jan-25	Corr. Coeff:	0.99994

	Calibration Data							
Plate or	∆H₂O	Qa, X-Axis	I, CFM	IC, Y-Axis				
Test #	(in)	(m ³ /min)	(chart)	(corrected)				
1	9.80	1.508	60.0	59.31				
2	7.60	1.329	56.0	55.36				
3	4.80	1.059	51.0	50.42				
4	3.00	0.840	46.0	45.47				
5	2.00	0.688	40.0	39.54				

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

m= 22.9745

Calculations

25.0988

b=___

 $\begin{aligned} & Qa = 1/m_c*[Sqrt (\Delta H_2O*(P_a/P_{Std})*(T_{Std}/T_a))-b_c] \\ & IC = I*(Sqrt (P_a/P_{Std})*(T_{Std}/T_a)) \end{aligned}$

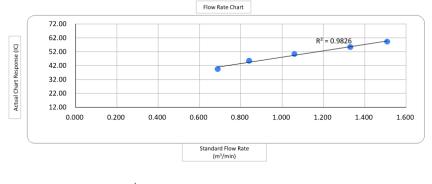
Qa = actual flow rate

IC = corrected chart response I = actual chart response

m_c = calibrator slope

b_c = calibrator intercept

m = sampler slope b = sampler intercept $T_{std} = 298 \text{ deg K}$ $P_{std} = 760 \text{ mm Hg}$ $T_a = actual temperature during calibration (deg K)$ $<math>P_a = actual pressure during calibration (mm Hg)$



helpt Checked by Tandy Tse ///

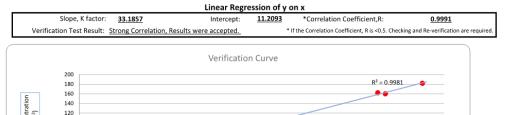
Date: 01-Aug-2024

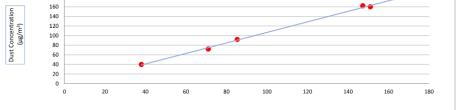
aurecon

Information of Calibrated Equipement							
Verification Test Date:	19-Mar-24	to	24-Mar-24	andrated	Next Verification Test Date:	24-Mar-25	
Unit-under-Test- Model No.:		Sibata LD-5R		-			
Unit-under-Test Serial No.:		2Y6549		-			
Our Report Refrence No.:	PF	RT-24-HVS-002	4	-			
Calibration Location:			E	max			

	Standard Equipment Inform	ation
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1085	3465
Last Calibration Date:	19-Mar-24	15-Jan-24
Next Calibration Date:	2-Apr-24	14-Jan-25

Equipement Vertification Result									
Verification		Duration			Results from	Calibrated Equipement	Results from Standard Equipment		
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m ³) y-axis		
1	19/3/2024	7339.85	7342.85	180.00	26514	147	162		
2	19/3/2024	7342.85	7345.85	180.00	27180	151	160		
3	19/3/2024	7345.85	7348.85	180.00	30474	169	182		
4	24/3/2024	7349.74	7352.74	180.00	6840	38	40		
5	24/3/2024	7352.76	7355.76	180.00	15354	85	92		
6	24/3/2024	7355.77	7358.77	180.00	12780	71	72		





Count/Minute

Andy Li Project Technician, Environ

Operated By:

Tandy Tse ///// Senior Consultant, Environmenta

Checked By:

Date: 29-03-2024

Date:

29-03-2024



aurecon

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

Information of Calibrated Equipement

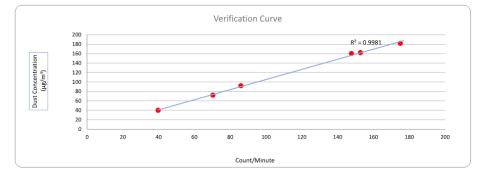
Verification Test Date:	19-Mar-24	to	24-Mar-24	Next Verification Test Date:	24-Mar-25
Unit-under-Test- Model No.:		Sibata LD-5R			
Unit-under-Test Serial No.:		2Y6550			
Our Report Refrence No.:	R	PT-24-HVS-002	8		
Calibration Location:	E		E	max	
					-

	Standard Equipment Informa	ation
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1048	3465
Last Calibration Date:	19-Mar-24	15-Jan-24
Next Calibration Date:	2-Apr-24	14-Jan-25

Equipement Vertification Result									
Verification		Duration			Results from	Calibrated Equipement	Results from Standard Equipment		
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m³) y-axis		
1	19/3/2024	7339.85	7342.85	180.00	27486	153	162		
2	19/3/2024	7342.85	7345.85	180.00	26586	148	160		
3	19/3/2024	7345.85	7348.85	180.00	31500	175	182		
4	24/3/2024	7349.74	7352.74	180.00	7146	40	40		
5	24/3/2024	7352.76	7355.76	180.00	15480	86	92		
6	24/3/2024	7355.77	7358.77	180.00	12654	70	72		

Linear Regression of y on x

Slope, K factor: 33.1857 Intercept: 11.2093 *Correlation Coefficient,R: 0.9990 * If the Correlation Coefficient, R is <0.5. Checking and Re-verification are requ Verification Test Result: Strong Correlation re accepted.



Operated By:

Checked By:

Andy Li Project Techr

29-03-2024 Date:

29-03-2024

Date:

Tandy Tse

nior Consultant, Enviro

APPENDIX D Monitoring Data (Air)

Location:	A1a
Monitoring Period:	September 2024
Parameter:	TSP 1-hour
Major Dust Source	Construction activities and daily operation of the sewerage treatment plant

Other Factors

NA

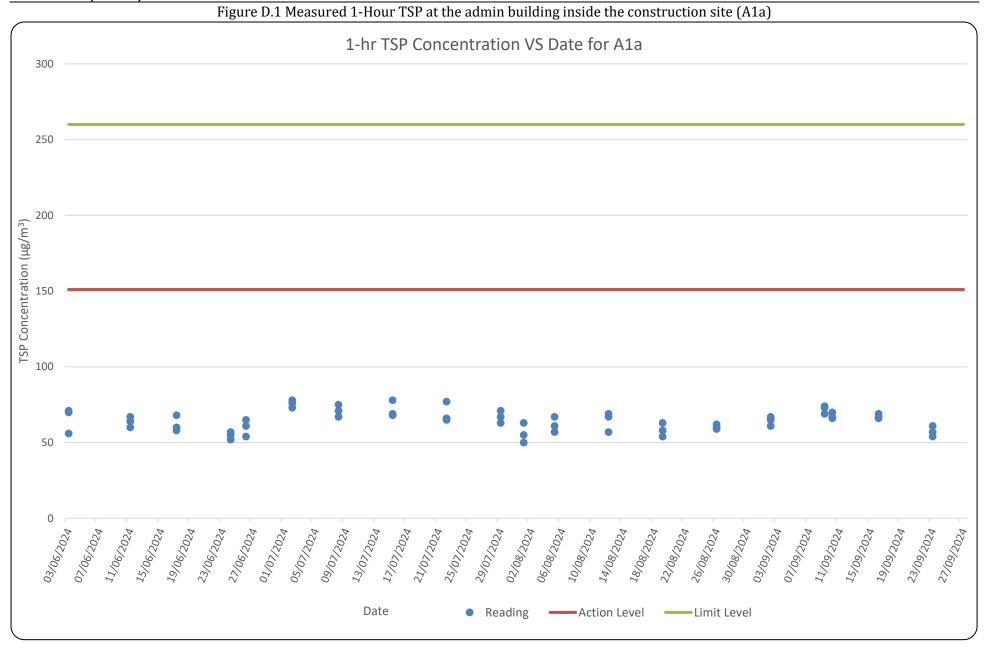
Date	Weather	Start Time	1 st Hour (μg/m³)	2 nd Hour (µg/m³)	3 rd Hour (μg/m³)
2/09/2024	Sunny	14:44	67	65	61
9/09/2024	Cloudy	14:35	69	73	74
10/09/2024	Sunny	15:08	67	66	70
16/09/2024	Cloudy	14:48	67	66	69
23/09/2024	Cloudy	15:12	54	57	61
		Average		66	
		Range		54 - 74	

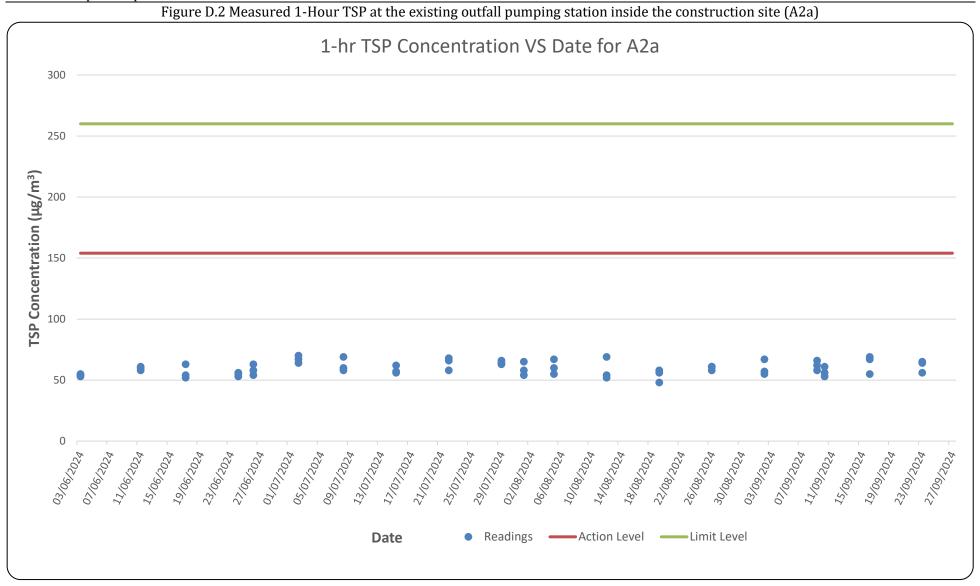
Location:	A2a
Monitoring Period:	September 2024
Parameter:	TSP 1-hour
Major Dust Source	Construction activities and daily operation of the sewerage treatment plant

Other Factors

NA

Date	Weather	Start Time	1st Hour (μg/m³)	2 nd Hour (µg/m³)	3 rd Hour (μg/m³)
2/09/2024	Sunny	14:32	55	67	57
9/09/2024	Cloudy	14:22	58	62	66
10/09/2024	Sunny	14:38	61	56	53
16/09/2024	Cloudy	14:28	67	69	55
23/09/2024	Cloudy	14:52	56	65	64
		Average		61	
		Range		53 - 69	





Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 38th EM&A Report –September 2024

Location:	A1a
Parameter:	TSP 24-hour
Major dust source	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	e Time	Sampling Time	Flow Rate	Standard Air Volume	Filter W	eight (g)	Particulate weight	Conc.
	(°C)	(mm Hg)		Initial (min)	Final (min)	Actual (min)	(m³/min)	(m³)	Initial	Final	(g)	(µg/m³)
2/09/2024	30.4	1006.9	Cloudy	357611	359121	1510	0.62	935	2.6915	2.8197	0.1282	137
9/09/2024	28.6	1007.5	Sunny	359121	360586	1465	0.63	917	2.6754	2.7200	0.0446	49
10/09/2024	28.9	1003.2	Cloudy	360586	362030	1444	0.62	891	2.6800	2.7709	0.0909	102
16/09/2024	29.7	1004.1	Cloudy	362030	363484	1454	0.62	897	2.6910	2.7212	0.0302	34
23/09/2024	26.2	1009.8	Sunny	363484	364984	1500	0.64	956	2.7072	2.8029	0.0957	100

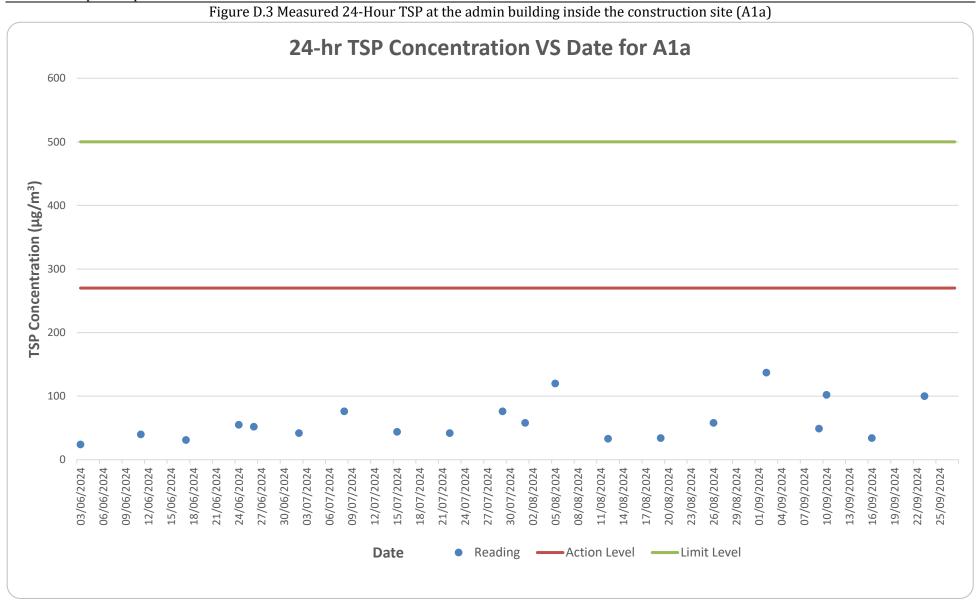
Average	84
Range	34 - 137

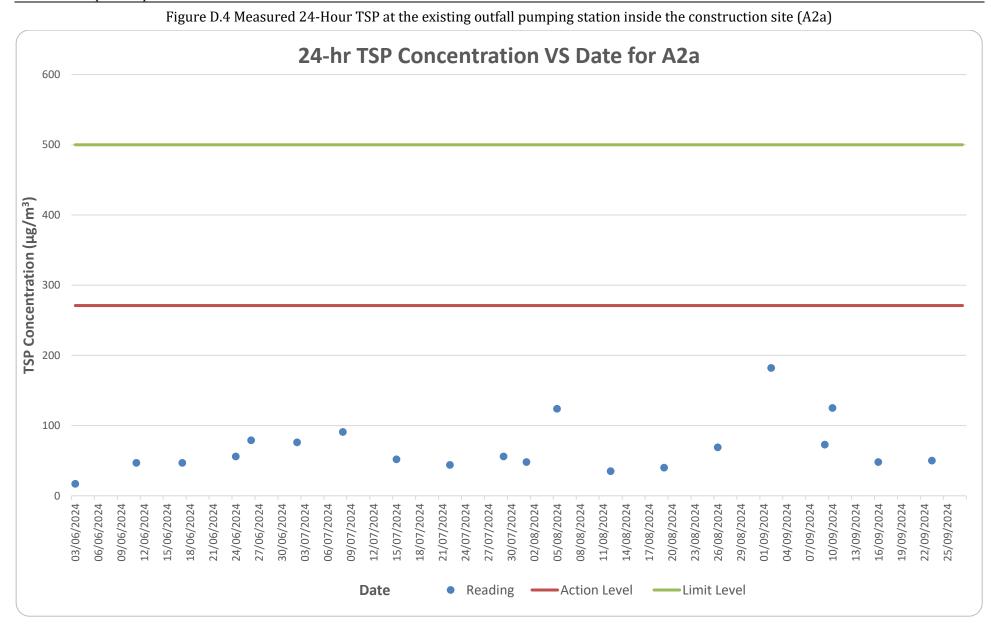
Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 38th EM&A Report –September 2024

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	Elapso	e Time	Sampling Time	Flow Rate	Standard Air Volume	Filter W	eight (g)	Particulate weight	Conc.
	(ºC)	(mm Hg)		Initial (min)	Final (min)	Actual (min)	(m³/min)	(m³)	Initial	Final	(g)	(µg/m³)
2/09/2024	30.4	1006.9	Cloudy	576036	577536	1500	0.45	676	2.6757	2.7984	0.1227	182
9/09/2024	28.6	1007.5	Sunny	577536	578986	1450	0.46	662	2.6583	2.7066	0.0483	73
10/09/2024	28.9	1003.2	Cloudy	578986	580430	1444	0.45	648	2.7026	2.7836	0.0810	125
16/09/2024	29.7	1004.1	Cloudy	580430	581885	1455	0.45	652	2.6884	2.7199	0.0315	48
23/09/2024	26.2	1009.8	Sunny	581885	583385	1500	0.64	959	2.6814	2.7298	0.0484	50
											Average	96

Range 48 - 182





APPENDIX E Calibration Certificates (Noise)

Certific	cate of Calibration
	for
Description	: Sound Level Calibrator
Manufactur	rer: RION
Type No.:	NC-75
Serial No.:	34524163
	Submitted by:
Customer:	Aurecon Hong Kong Limited
Address:	Unit 1608, 16/F, Tower B, Manulife Financial Centre,
	223-231 Wai Yip Street, Kwun Tong,
	Kowloon, Hong Kong
	ibration are traceable to National Standards via: ng Kong Special Administrative Region Standard & Calibration
Date of calibration: 24 July 20	24
Date of NEXT calibration: 23	July 2025
Calibrated by:Calibra	tion Technician
Date of issue: 24 July 2024	S ((A+A) *L)?



1. Calibration Precautions:

- 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 Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	23.4 °C
Air Pressure:	1005 hPa
Relative Humidity:	56.7 %

4. Calibration Equipment:

Test Equipment	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV230128	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	93.9

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ24-010-CC001

Page 2 of 2

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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲量】||| 聲學及空氣測試實驗室有限公司

Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	SVAN 971 (Serial No.:C132269)
Microphone:	ACO 7052 E (Serial No.: 85230)
Preamplifier:	SVANTEK SV-18 (Serial No.:C122483)
	Submitted by:
Customer:	Acuity Sustainability Consulting Limited
Address:	Unit E, 12/F, Ford Glory Plaza,
	Nos. 37-39 Wing Hong Street,
	Cheung Sha Wan, Kowloon, Hong Kong

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

✓ Within (31.5Hz – 8kHz)□ Outside

the allowable tolerance.

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

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

Date of receipt: 19 October 2023

Date of calibration: 26 October 2023

Date of NEXT calibration: 25 October 2024

	Ng Yan Wa y Manager
Date of issue: 27 October 2023	y munuger
Certificate No.: APJ23-091-CC003	Page 1 of 4
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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

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

2. Calibration Conditions:

Air Temperature:	22.6 °C
Air Pressure:	1016 hPa
Relative Humidity:	65.3 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to	
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS	

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124.9	dBA	SPL	Fast	94	1000	94.3	±0.4

Linearity

Sett	ing of U	nit-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.3	Ref
25-124.9	dBA	SPL	Fast	104	1000	104.3	±0.3
				114		114.3	±0.3

Time 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
	25-124.9	dBA	SPL	Fast	94	1000	94.3	Ref
	25-124.9	ubA	SFL	Slow	94		94.3	±0.3
Certific	ertificate No.: APJ23-091-CC003							
Room	422,Leader	long Kong						

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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Арр	Applied value		IEC 61672 Class 1						
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB					
				31.5	94.6	±2.0						
					63	95.2	±1.5					
					125	94.5	±1.5					
		dB SPL								250	94.3	±1.4
25-124.9	dB		Fast	94	500	94.3	±1.4					
										1000	94.3	Ref
				2000	94.5	±1.6						
				4000	94.2	±1.6						
					8000	91.1	+2.1; -3.1					

A-weighting

Setting of Unit-under-test (UUT)			Арр	Applied value		IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				31.5	55.3	-39.4 ±2.0
				63	68.4	-26.2 ±1.5
				125	78.3	-16.1 ±1.5
				250	85.7	-8.6 ±1.4
25-124.9	dBA SPL	Fast	94	500	91.1	-3.2 ±1.4
				1000	94.3	Ref
				2000	95.3	+1.2 ±1.6
				4000	94.9	+1.0 ±1.6
				8000	89.8	-1.1 +2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
				31.5	91.7	-3.0 ±2.0	
				63	94.4	-0.8 ±1.5	
				125	94.3	-0.2 ±1.5	
	dBC SPL	Fast	94		250	94.3	-0.0 ±1.4
25-124.9				500	94.3	-0.0 ±1.4	
				1000	94.3	Ref	
				2000	94.3	-0.2 ±1.6	
				4000	93.4	-0.8 ±1.6	
				8000	88.3	-3.0 +2.1; -3.1	



Certificate No.: APJ23-091-CC003

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5. Calibration Results Applied

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

Uncertainties of Applied Value:

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

The uncertainties are evaluated for a 95% confidence level.

Note:

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

Certificate No.: APJ23-091-CC003



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APPENDIX F Monitoring Data (Noise)

Location:	N2a
Monitoring Period:	September 2024
Parameter:	Noise
Major Noise Source:	Construction activities and daily operation of the sewerage treatment plant
Other Factors	NA

Date	Weather	Start Time	L _{eq}	L ₁₀	L ₉₀	
3/9/2024	Cloudy	15:55	70.8	73.1	67.4	
11/9/2024	Sunny	15:12	71.0	74.0	67.5	
17/9/2024	Cloudy	15:02	70.2	73.7	67.5	
24/9/2024	Cloudy	14:12	70.3	72.8	66.2	
		Average	70.6			
		Range		70.2 - 71.0		

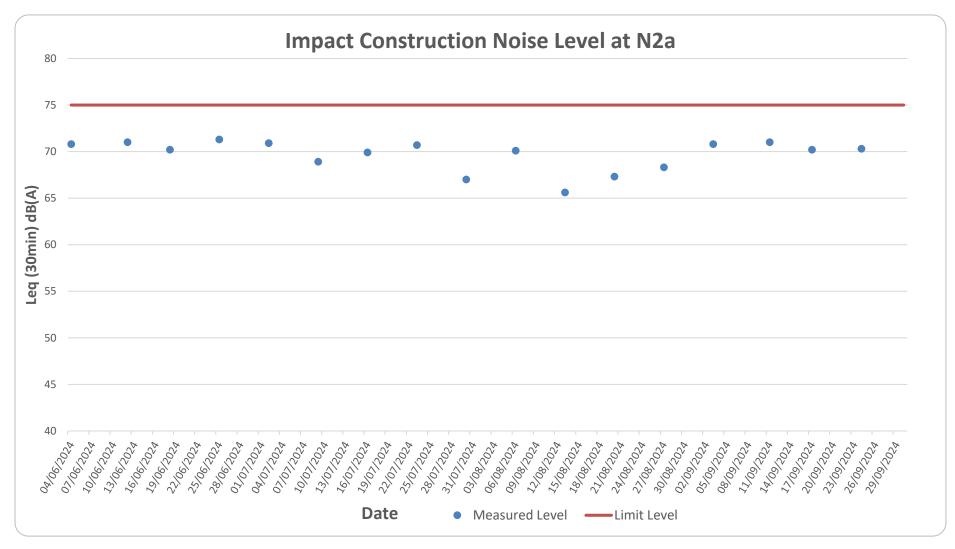
Location:	N3a
Monitoring Period:	September 2024
Parameter:	Noise
Major Noise Source:	Construction activities and daily operation of the sewerage treatment plant
Other Factors	Many noisy vehicles passed by during monitoring

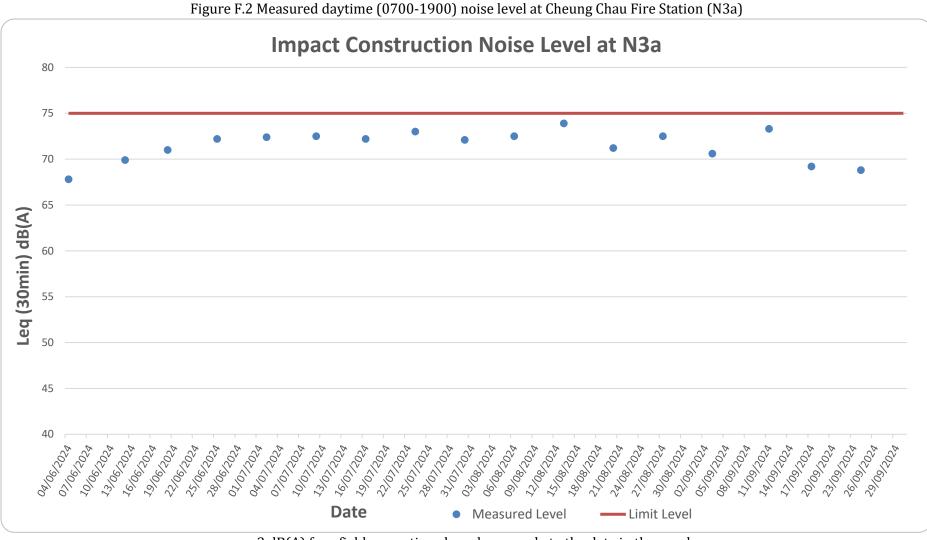
Date	Weather	Start Time	L _{eq}	L ₁₀	L ₉₀
3/9/2024	Cloudy	14:15	70.6	73.4	55.1
11/9/2024	Sunny	13:38	73.3	74.8	66.5
17/9/2024	Cloudy	13:51	69.2	72.1	60.6
24/9/2024	Cloudy	13:30	68.8	71.0	52.9
		Average		70.9	
		Range	68.8 - 73.3		

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

Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 38th EM&A Report – September 2024

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





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?	Location / Timing of implementation of Measures			What requirements or standards for the measures to achieve?
			ineasures :	D	С	0	
Construction Phase (U	ograding 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		~		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
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		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?
			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/m ² . Actual application shall depend on the site condition and weather conditions).	Air Quality (fugitive dust) Control during Construction Phase	Contractors		\checkmark		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/m ² during the first hour, subsequent application at 0.2 litre/m ² . Actual application shall depend on the site condition and weather conditions).	Air Quality (fugitive dust) Control during Construction Phase	Contractors		\checkmark		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		\checkmark		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		\checkmark		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		\checkmark		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 implementation Measures		tation of standards for th	
			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		V		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	Location / Timing implementation Measures		entation of standards for	
			measures?	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		V		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		\checkmark		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		V		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	impl	ion / Tim ementati Measure	on of	What requirements or standards for the measures to achieve?
			measures?	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/m ³)	Air Quality (fugitive dust) Control during Construction Phase	Contractors		V		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)

Contract No. DC/2019/07

Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 38th EM&A Report – September 2024

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 (I	Jpgrading 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

Contract No. DC/2019/07

Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 38th EM&A Report – September 2024

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/m ² . 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 (I	Jpgrading Works of Cheung Chau STW and Pak She SPS (DP Com	ponent) and Sewers Work	ks (non-DP Compo	nent))	•	•	1								
S.5.7.1	Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below:	Water Quality Control	Contractors		\checkmark		WPCO;TM –Effluent								
	 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; 	be	he be	prior to the ınoff should be			e	the be							Standards for Effluents Discharged into Drainage and Sewerage
	 Works programme should be designed to minimize works areas to reduce soil exposure and site runoff; 						Systems, Inland and Coastal Water								
	 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; 														

Contract No. DC/2019/07

Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 38th EM&A Report – September 2024

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the	When to implement the measures?			What requirements or standards for the
			measures?	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		1		 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
			ineasures ?	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		1		 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:	Water Quality Control	Contractors		\checkmark		• WPCO;
	Registration to EPD as a Chemical Waste Producer if chemical wastes are generated and need to be disposed of;						TM –Effluent Standards for
	Illegal disposal of chemicals should be strictly prohibited; and						Effluents Discharged into
	 Oils and fuels should only be used and stored in the designated area which has polluting prevention facilities. 						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
			measures?	D	С	0	measures to achieve?
Construction Phase	(Upgrading 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		V		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		\checkmark		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		V		Waste Disposal Ordinance
S.6.6.1	Sufficient waste disposal points and regular collection of waste shall be provided.	Waste management during construction	Contractors		\checkmark		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		V		Waste Disposal Ordinance
S.6.6.1	Regular cleaning and maintenance programme for drainage systems, pumps and oil interceptors.	Waste management during construction	Contractors		\checkmark		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		ineasures :	D	o c o		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		1		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		V		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		\checkmark		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		1		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		\checkmark		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	Who to implement the measures?	When to implement the measures?			What requirements or standards for the
		concerns to address	measures	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		V		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		V		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		~		Waste Disposal Ordinance

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main	Who to implement the measures?		to imple measure		What requirements or standards for the
		concerns to address	measures :	D	с	0	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		V		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		\checkmark		Waste Disposal Ordinance
EIA Ref.	EIA Ref. Recommended Environmental Protection Measures/ Mitigation Measures		Who to implement the measures?		n to imp e measu C		What requirements or standards for the measures to achieve?
Construction Phas	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		V		N/A

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	commended measures implement the measures? & main concerns to the		the measures?		What requirements or standards for the measures to
		address	incasures :		C	U	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	~	1		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	Landscape mitigation measures	DSD and Contractors	~	1		EIA, Annex 10 and Annex 18 of EIAO- TM
	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.						
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		1		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	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	V	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	\checkmark	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

Depositing Devied	Environmental Complaints Statistics						
Reporting Period	Frequency	Nature	Follow-up Actions				
1 September 2024 - 30 September 2024	0	N/A	N/A				
Cumulative	1*	Water	N/A				

*Follow-up action is mentioned in Complaint Investigation Report of the Complaint Log No. C-001 submitted on 21 Dec 2023.

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics						
Reporting Terrou	Frequency	Nature	Follow-up Actions				
1 September 2024 30 September 2024	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 September 2024 - 30 September 2024	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)



	1	mpact Monitoring Schedule for Upgr	ading of Cheung Chau Sewage Collec	tion, Treatment and Disposal Faciliti	ies	
			Sep-24	<i>,</i> .		
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a				
8	9	10	11	12	13	14
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a			
15	16	17	18	19	20	21
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a				
22	23	24	25	26	27	28
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a				
29	30					
			24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a		



	Impac	Monitoring Schedule for Upgrad	ling of Cheung Chau Sewage Colle Oct-24	ection, Treatment and Disposal Fa	acilities	
Sun	Mon	Tue		Thu	Fri	Sat
		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		
6	7	8	9	10	11	12
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a				
13	14	15	16	17	18	19
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a				
20	21	22	23	24	25	26
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	& A2a	Daytime Noise monitoring for N2a & N3a			
27	28	29	30	31		
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a				