

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

Attn: Mr. Titus Yeung - Senior 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/L069	Environmental Permit No. EP-488/2014/A		
Mott MacDonald 3/F Manulife Tower	Monthly EM&A Report for December 2023 (Rev. 2)		
348 Kwun Tong Road Kwun Tong Kowloon	14 January 2024		
Hong Kong	By Email		
T +852 2828 5757 F +852 2827 1823 mottmac.hk	Dear Sir,		
	I refer to the Monthly EM&A Report for December 2023 (Rev. 2) under the captioned Project, which was certified on 12 January 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		

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

29th Monthly Environmental Monitoring and Audit Report – December 2023

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REVISION HISTORY

REV.	Description of Modification	DATE
0	First Issue for Comments	10 January 2024
1	Updated in accordance with IEC's comments	12 January 2024
2	Updated in accordance with IEC's further comments	12 January 2024

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 Period (Tentative)
 Period (Tentative)

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 29th 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 31 December 2023.
- A.4 Key activities carried out in this reporting period for the Project included the followings:
 - Trial Pit and Ground Investigation
 - Smart Sewage Monitoring
 - Excavation and Lateral Support (ELS) at CCSTW
 - Construction of Sludge Digester Building
 - Construction of MBR Treatment Facilities
 - Mechanical Installation of Sludge Digestor Building and Sludge Holding Tanks
 - MVAC Installation Works
 - Construction of Sludge Holding Tank
 - Lifting Appliance Installation for Sludge Digestor Building
- A.5 The major environmental impacts brought by the above construction works include:
 - Construction dust and noise generation from construction works and piling works
 - Wastewater generated from construction activities
 - Waste generation from the construction activities
- A.6 The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
 - Dust suppression by regular wetting and water spraying for construction works
 - Reduction of noise from equipment and machinery on-site
 - Mitigation measures preventing seepage of muddy water
 - Sorting and storage of general refuse and construction waste
- A.7 Four (4) sessions of air monitoring were carried out at all designated monitoring locations. No exceedance of Action or Limit Level was recorded.
- A.8 Four (4) sessions of noise monitoring were carried out at all designated monitoring locations. No exceedance of Action or Limit Level was recorded.
- A.9 Results of the monitoring for air quality and airborne noise are given in **Table A** and **Table B** as follows:

Table A - Monitoring Results (Dust)

	Dust in µg/m³			
Location	Average		Range	
	TSP-1hr	TSP-24hr	TSP-1hr	TSP-24hr
A1a	67	75	58 - 76	22 - 101
A2a	58	81	52 - 67	48 - 120

Table B – Monitoring Results (Noise)

	Noise in dB(A)		
Location	Average	Range	
	L _{eq (30 min)} (7:00-19:00)	L _{eq (30 min)} (7:00-19:00)	
N2a	71.4	69.7 – 72.4	
N3a	73.5	71.4 - 74.7	

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 Waste management mitigation measures were properly implemented in the reporting period.
- A.12 For cultural heritage impact, as this Project does not involve proposed sewers works, according to Section 6.1.5 of the EM&A Manual, no EM&A requirement is considered necessary during the construction and operational phase of upgrading of Cheung Chau STW and Pak She SPS.
- A.13 The recommended landscape and visual mitigation measures were properly implemented in the reporting period.
- A.14 Weekly site inspection of the construction work by ET were carried out on 05, 12, 18 and 27 December 2023.
- A.15 No environmental complaint was received during the reporting period.
- A.16 No notification of summons or prosecution was received in the reporting period.
- A.17 A map of the construction site and monitoring locations are shown in <u>Appendix A</u>.

A.18 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 Billing Account	7039094	21/11/2020	N/A
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

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).

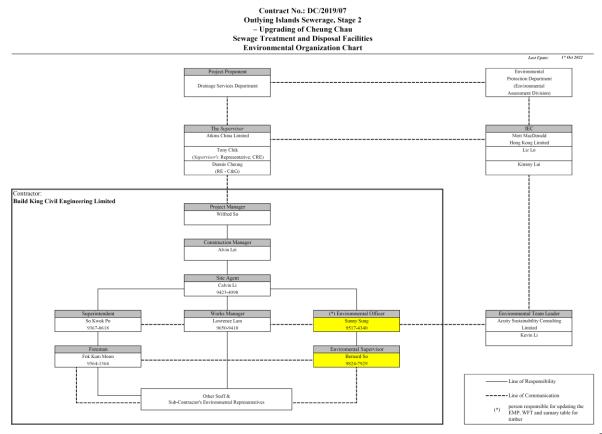
1.2. PROJECT DESCRIPTION

- 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 (Build King Construction	Site Agent Environmental Officer	Calvin Li Sunny Sung	9423 4998 9517 4340
Limited)	Environmental Officer	Bernard So	9824 7929

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
- Smart Sewage Monitoring
- Excavation and Lateral Support (ELS) at CCSTW
- Construction of Sludge Digester Building
- Construction of MBR Treatment Facilities
- Mechanical Installation of Sludge Digestor Building and Sludge Holding Tanks
- MVAC Installation Works
- Constructing of Sludge Holding Tank
- Lifting Appliance Installation for Sludge Digestor Building

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

- Trial Pit and Ground Investigation
- Smart Sewage Monitoring
- Excavation and Lateral Support (ELS) at CCSTW
- Construction of Sludge Digester Building
- Construction of MBR Treatment Facilities
- Mechanical Installation of Sludge Digestor Building and Sludge Holding Tanks
- MVAC Installation Works
- Constructing of Sludge Holding Tank
- Lifting Appliance Installation for Sludge Digestor Building

1.5. Purpose of the Report

- 1.5.1 According to the EM&A Manual for the Project, monitoring for air quality and noise should be conducted throughout the construction period of the Project.
- 1.5.2 The EM&A requirements for environmental monitoring are set out in the EM&A Manual. Environmental aspect of construction noise and air quality were identified as the key issues requiring implementation of monitoring programme during the construction phase of the Project.
- 1.5.3 This report is summarizing the monitoring results and audit findings of the EM&A programme during the reporting period from 1 December to 31 December 2023.

2. AIR QUALITY

2.1. AIR QUALITY PARAMETERS

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

2.2. MONITORING CRITERIA

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

2.3. MONITORING REQUIREMENTS AND EQUIPMENT

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

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

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 **Appendix C**.

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

 Table 2.1 Equipment Used for Air Quality Monitoring

Equipment	Model	Serial Number
Calibrator Kit	Tisch TE-5028A Calibration Kit	3702

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.

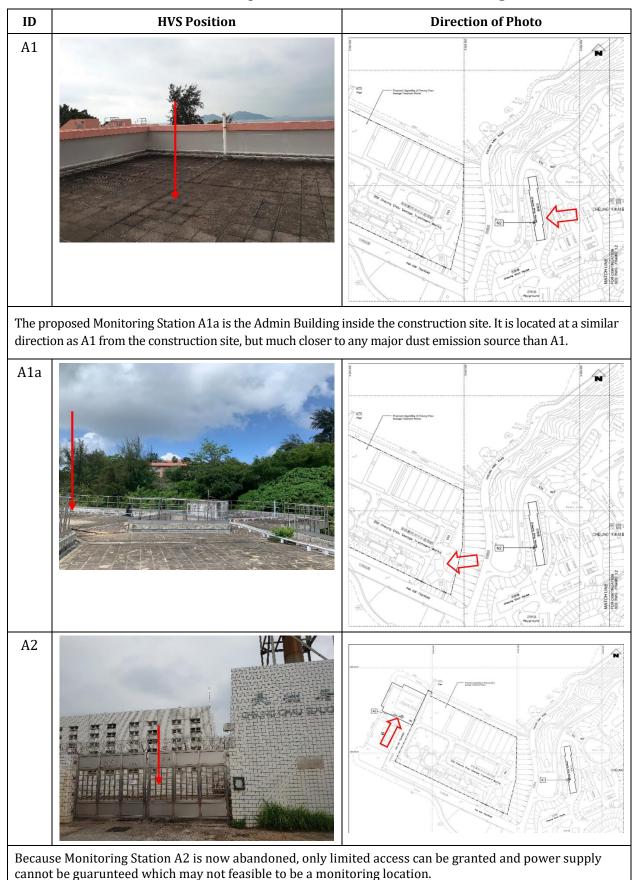


 Table 2.3 Photo of Proposed HVS Position at Dust Monitoring Stations

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.

Monitoring Location	Average(µg/m3)	Range(µg/m3)	
A1a	67	58 - 76	
 A2a	58	52 - 67	

Table 2.4Summary of 1-hour TSP Monitoring Results

A2a	58	52 - 67
Table 2.5 Summary	of 24-hour TSP Monitoring Res	sults
Monitoring Location	Average(µg/m3)	Range(µg/m3)
A1a	75	22 - 101
A2a	81	48 - 120

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	$\frac{\text{For baseline level} \le 200 \ \mu\text{g/m}^3}{\text{AL} = (\text{BL} * 1.3 + \text{LL})/2}$ $\frac{\text{For baseline level} > 200 \ \mu\text{g/m}^3}{\text{AL} = \text{LL}}$	260 μg/m³
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/m ³

Table 2.6	Action / Limit Levels for Air Qu	uality
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2.6.2 The derived Action/Limit Levels are presented in **Table 2.7**.

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	200
24-hour TSP	A1a	270	500
Level in μg/m³	A2a	271	500

Table 2.7	Derived Action	/ Limit Levels for Air Quality
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2.7. EVENT AND ACTION PLAN

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

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

EVENT		ACTION PLAN FOR CONSTRUCTION DUST				
EVENT	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. 		

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 Parameters, Time, Frequency and Duration

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	96063
Acoustic Calibrator	Rion NC-75	34724244

Table 3.2 Equipment Used for Noise Monitoring

3.3. MONITORING LOCATION

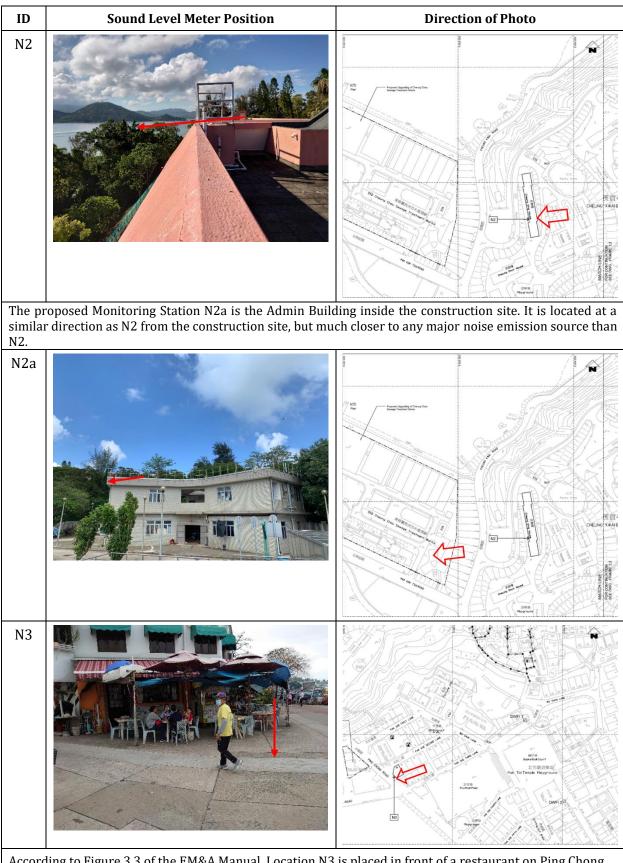
3.3.1 According to the environmental findings detailed in the EIA report, the designated locations for the construction noise monitoring are listed in **Table 3.3** and shown in Figure 3.1 – 3.8 of the EM&A Manual.

 Table 3.3 Noise Monitoring Stations for Noise Monitoring

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

- 3.3.2 For this Contract, only N2 and N3 need to be monitored since all the other monitoring stations specified in the EM&A Manual are for sewers works but this Contract does not include sewers works.
- 3.3.3 The proposed Monitoring Station N2a is the Admin Building inside the construction site. It is located at a similar direction as N2 from the construction site, but much closer to any major noise emission source than N2.
- 3.3.4 According to Figure 3.3 of the EM&A Manual, Location N3 is placed in front of a restaurant on Ping Chong Road. It may pose potential danger to pedestrians, cyclists, drivers and the equipment. A proposed monitoring location N3a, which is about 5 m away from the original monitoring location. N3a is at the corner of the Cheung Chau Fire Station. This location is more safe and meets the guidelines and requirements specified in 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



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.

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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 December 2023. 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)	71.4	69.7 – 72.4
N3a	Daytime (0700-1900)	73.5	71.4 - 74.7

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 3.6	Action / Li	mit Levels for	Construction Noise
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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 ET, ER and Contractor on the potential remedial actions; and Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the EIC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; and If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; and Stop the relevant portion of works as determined by ER, until the exceedance is abated.

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 inspection was carried out by the ET on 05, 12, 18 and 27 December 2023. No major deficiency was observed and the implementation of recommended for water pollution control was considered satisfactory.
- 4.3 Compliance audits were undertaken that a valid discharge license was issued by EPD on 20 August 2021. The Contractor was reminded to make sure any effluent discharge from construction activities of the Project site should meet the requirements stipulated in the discharge license and monitoring of the treated effluent quality from the Works Areas should be carried out in accordance with the Water Pollution Control Ordinance license that is under the ambit of the relevant regional EPD office.
- 4.4 According to the Specific Conditions B2 in Part B of the discharge licence issued under WPCO, a sample of discharge was taken on 05 December 2023 for testing. The quality of the discharge compliant with the requirements of the discharge licence.

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**.

Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 -Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 29th EM&A Report – December 2023

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

Name of Department : Drainage Services Department	Contract No./ Work Order No. :	DC/2019/07	
	Project Title:	Outlying Islands Sewerage Stage 2 -	Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities
	Contractor:	Build King Civil Engineering Lin	nited
	Trip Ticket Account (Main Accou	nt):	7039094
	Trip Ticket Account (Vessel Acco	unt):	7040870
	Marine Dumping Permit (Type 1	- Open Sea Disposal):	EP/MD/23-041
	Marine Dumping Permit (Type 2	- Confined Marine Disposal):	EP/MD/23-033

Table 5.1: Monthly Summary Waste Flow Table for 2023 (in Weight)

(All quantities	shall be rounded off	to 3 decimal place	s)							updated on	04-Jan-2024		
		Actual Quanti	ities of Inert C&D Materi	ials Generated / Import	ed (in '000 kg)			Actual Quantities	of Other C&D Materials /	Wastes Generated		Marine I	Dumping
Month	Total Quantities Generated	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) (botlescomminers, 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-2023	6752.4100	0.0000	0.0000	0.0000	6745.3900	0.0000	0.0000	0.0000	0.0000	0.0000	7.0200	0.0000	0.0000
Feb-2023	2032.0500	0.0000	0.0000	0.0000	2028.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.0500	0.0000	0.0000
Mar-2023	4282.9700	0.0000	0.0000	0.0000	4276.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.9700	835.0000	1350.0000
Apr-2023	2152.4200	0.0000	0.0000	0.0000	2148.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.4200	0.0000	0.0000
May-2023	1664.6600	0.0000	0.0000	0.0000	1657.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.6600	0.0000	0.0000
Jun-2023	1724.9700	0.0000	0.0000	0.0000	1717.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.9700	0.0000	0.0000
Half-year total	18609.4800	0.0000	0.0000	0.0000	18571.3900	0.0000	0.0000	0.0000	0.0000	0.0000	38.0900	835.0000	1350.0000
Jul-2023	7.7400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.7400	0.0000	0.0000
Aug-2023	7520.7800	0.0000	0.0000	0.0000	7505.9000	0.0000	0.0000	0.0000	0.0000	0.0000	14.8800	0.0000	0.0000
Sep-2023	4859.1500	0.0000	0.0000	0.0000	4839.0000	0.0000	0.0000	0.0000	0.0000	0.0000	20.1500	0.0000	0.0000
Oct-2023	11859.2700	0.0000	0.0000	0.0000	11838.0000	0.0000	0.0000	0.0000	0.0000	0.2000	21.0700	0.0000	0.0000
Nov-2023	5501.6900	0.0000	0.0000	0.0000	5479.5800	0.0000	0.0000	0.0000	0.0000	0.0000	22.1100	0.0000	0.0000
Dec-2023	1390.1200	0.0000	0.0000	0.0000	1377.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13.1200	0.0000	0.0000
Yearly Total	49748.2300	0.0000	0.0000	0.0000	49610.8700	0.0000	0.0000	0.0000	0.0000	0.2000	137.1600	835.0000	1350.0000

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

		Actual Quant	ities of Inert C&D Materi	ials Generated / Importe	ed (in '000 kg)			Actual Quantities of	of Other C&D Materials	/Wastes Generated		Marine I	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/comminers, plastic sheets/ foams from package 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	49748.2300	0.0000	0.0000	0.0000	49610.8700	0.0000	0.0000	0.0000	0.0000	0.2000	137.1600	835.0000	1350.0000
2024	0.0000												a 53
2025	0.0000												
2026	0.0000								-				
Total	67688.3100	0.0000	0.0000	0.0000	67429.5400	0.0000	0.0000	0.0000	0.0000	0.2000	258.5700	1360.0000	1553.0000

Remark:

1) Density of C&D material to be 2) Density of General Refuse to be

metric ton/m3 1.6 _____ metric ton/m3 3) Density of Chemical Waste to be 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)

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 05, 12, 18, and 27 December 2023. A joint site inspection with IEC was carried out on 18 December 2023.
- 7.2 Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 7.1**.

Date	Environmental Observations	Follow-up Status	Reminders
5 December 2023	Chemical bottle should be removed near area T5.	The chemical bottle has been removed.	NIL
12 December 2023	NIL	N/A	NIL
18 December 2023	Broken geotextile should be replaced to avoid seepage of muddy water.	Geotextile have been replaced.	At the pier area, stockpile should be well-covered by tarpaulin.
27 December 2023	NIL	N/A	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

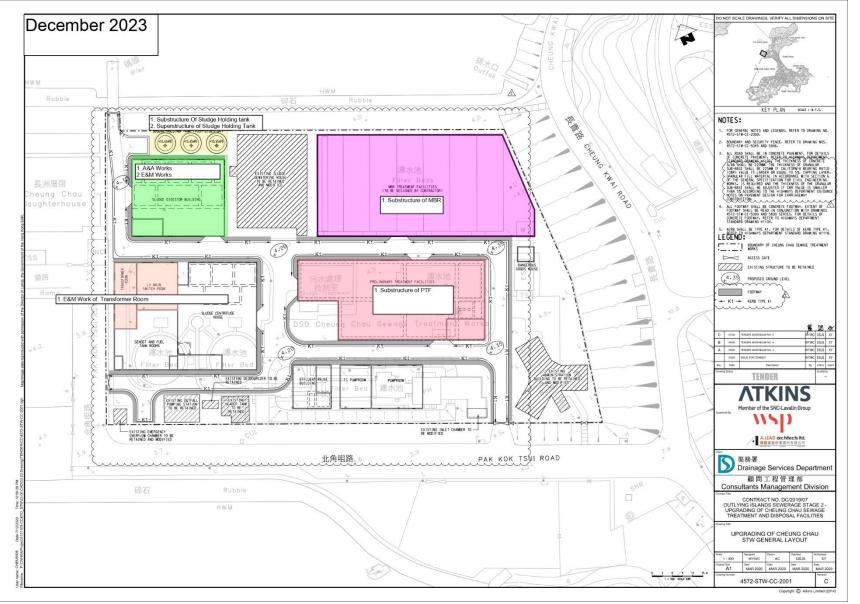
- **8.1.** SUMMARY OF EXCEEDANCES
- 8.1.1 No exceedance of Action and Limit Levels of air quality and construction noise was recorded in the reporting month.
- 8.2. Summary of Environmental Complaint
- 8.2.1 No environmental complaint was recorded in the reporting month.
- 8.2.2 Investigation of the complaint from EPD (Complaint Log No. C-001) on 30 November 2023 was carried out by the ET. During the site inspection of EPD on 29 November 2023, it was observed that a blue hose was discharging yellowish water from the construction site and yellowish water was also seen at the sampling point. Investigation reviewed that the Contractor conducted daily maintenance of the wetsap and no malfunction of the wetsap was recorded. The yellowish water observed on 29 November 2023 was solely by the residue inside the blue hose. An inspection was carried out by ET on 5 December 2023 to check the condition of the wetsep. The wetsep was in good condition and no yellowish water was observed in the outlet chamber of the wetsep and at the sampling point. The Contractor was reminded to keep the daily checking on the wetsep and to replace the blue hose more frequently in future to ensure the quality of discharge meets the requirements of the discharge licence. An additional sedimentation tank was also added by the Contractor to enhance the efficiency of wastewater treatment.
- 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

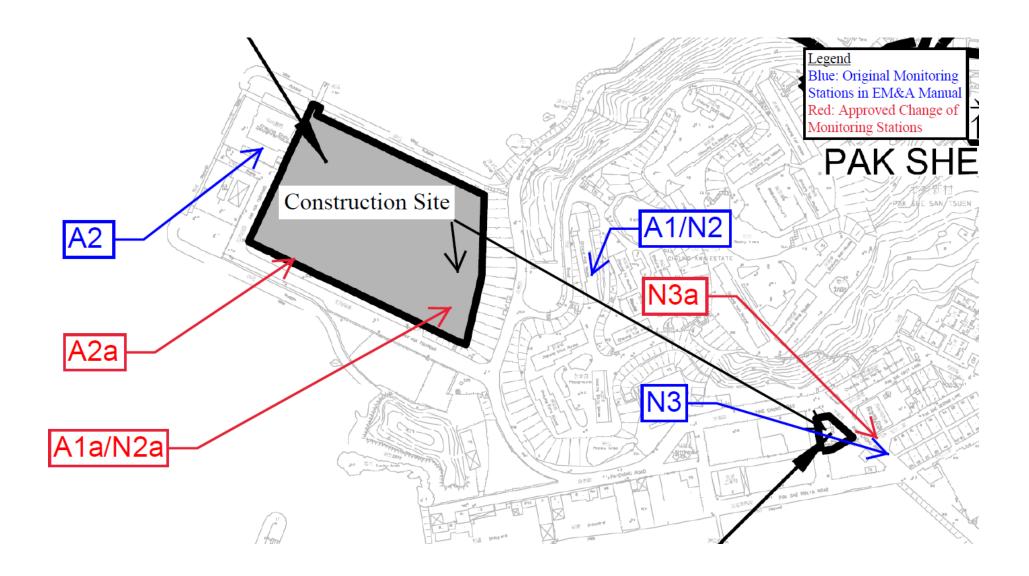
- 9.1 This is the 29th Monthly EM&A Report for the Project which summarizes the key findings of the programme during the reporting period from 1 December to 31 December 2023 in accordance with the EM&A Manual and the requirement under EP-488/2014/A.
- 9.2 Four (4) sessions of air and Four (4) sessions 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 No exceedance of Action or Limit Level was recorded in the reporting period.
- 9.6 No environmental complaint was received in the reporting period.
- 9.7 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 29th EM&A Report – December 2023



Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 29th EM&A Report – December 2023



APPENDIX B Construction Programme



D	Activity Name	Orl. Dur (d)	i) TRA (d)	Time Elapsed %	Actual Workdone S	Actual Start	Actual Finish	Early Start	Early Finish	Late Start Late Finis	h Early Start (Rev 20)	A Early Finish (Rev. 20)	Total Ameni Float Activit	led	2021 02 03 0	4 01 02	022 Q3 Q4	2123 Q1 Q2 Q3 Q4	Q1 Q2	Q3 Q4 Q1	2025 02 03 04 Q	2026
TLYING IS	LANDS SEWERAGE STAGE2 - UPGRADING OF CHEUNG CHAU SEWAGE TREATM	ENT AND D	DISPOS	36.4%		27-Nov-20		27-Nov-20 A	05-Feb-27	11-Jin-22 05-Feb-2	7 27-Nov-20	01-Jan-27	0									
DATES				100%		27-Nov-20		27-Nov-20 A	05-Fet-26	05-Feb-26 05-Feb-2		07-Jan-26	0									·
D.1010	Contract Starling Date	0	0	100%	100%	27-Nov-21		27-Nov-20 A	AF F 1 531		27-Nov-20	47.1 33		27-No-	20 A		÷÷					
D.1020	Contract Completion Date	0	0	0%. 100%	0%	22 Hour 22	00 km 01	07 May 00 A	05-Feb-26*	05-Feb-2	07 Nov 20	07-Jan-26	0 ^		-		1.1	{				
ESS DATE 1.1030	Portion A, B, C, D, E, F and Works Area WA1	0	a	100%	100%	27-Nov-23 27-Nov-23	03-001-21	27-Nov-20 A	03-JUN-21 A		27-309-20 27-Nov-20	03-301-21		27 Ale	20.4							
3.1030#	Vitals A, B, C, J, E, F and Vital Area Viet	0	0	100%	100%	27-New-20		27-Nov-20 A			27-Nov-20				20 A		1 1					
D.1040	Works Area WAG	0	0	100%	100%	03-Jun-21		03-Jun-21 A			02-Jun-21				1 03-Jun-	21 A						
INED CO	MPLETION DATES			84.35%		25-May-21		29-May-21 A	05-Feb-26	13-May-25 05-Feb-2	8 29-May-21	16-Oct-25	0			-		++++				,
D.1050	Planned Completion of Section 1 (Actual Commencement Bale on 27 Nov 2020)	0	0	100%	100%		29-May-21		29-May-21 A			29-May-21			.		1.1					
0.1060	Planned Completion of Section 2 (Actual Commencement Date on 29 May 2021)	0	0	100%	100%		20-Feb-23		20-Feb-23 A			24-Mar-23	•		1111	110	111	•	111	1111		
0.1070	Planned Completion of Section 3 (Actual Commencement Date on 29 May 2021)	0	0	0%	0%				13-Way-25*	13-May-6		08-Apr-25	0 *								•	
1.1080	Planned Completion of Section 4 (Actual Commencement Date on 29 May 2021)	0	0	0%	0%				05-Feb-26*	05-Feb-2		16-Ocl-25	0 .				1 🚺				÷ •	•
TRACT S	ECTIONAL COMPLETION DATES			81.42%		28-May-21		29-May-21-A	05-Feb-26	13-May-25 05-Feb-2	8 28-Feb-22	07-Jan-26	0									· · · ·
1230	Contract Sectional Completion Date of Section 1 (Actual Commencement Date on 27 Nov 2023)	0	0	100%	100%		29-May-21		29-May-21 A			28-Feb-22		_	1	•	1.1.1	1				
1250	Contract Sectional Completion Date of Section 2 (Actual Commencement Date on 29 May 2021)	0	0	100%	100%		24-Feb-23		24-Feb-23 A			05-Dec-22	•	_			4	1				
1260	Contract Sectional Completion Date of Section 3 (Actual Commencement Date on 23 May 2021) Contract Sectional Completion Date of Section 4 (Actual Commencement Date on 23 May 2021)	0	0	0% 0%	0%				13-Way-25* 05-Feb-26*	13-May-0 05-Feb-0		08-Apr-25 07-Jap-26	0 -	- 11				1		1	ſ .	
GN SUBA	ASSION PERMIT		U	71.57%	0.5	27.Mes.22		27.May 20 A	36-04-26	13. Jun.24 25. Feb. 2	8 27-Nov-20	25-Sec-25	93						_		•	
1090	Presare/kuomission of Temporary Drainage and Severage Management Plan to the Supervisor, DSD/HKR/ and DSD/LDD	106	0	100%	100%	27-Nov-20	12-Ma-21	27-Nov-20 A	12 Mar-21 A		27-Nov-20	12-Mar-21										
0.1100	Consubation/sproval 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-\far-21	11-May-21				11	1-1-6	1	1-1+	++++		
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-Nov-20	15-May-21	27-Nov-20 A	15-May-21 A		27-Nov-20	15-May-21				1						
1120	Application/approval of TTMS and CNP for night works by relevant authorities	170	0	100%	100%	27-Nov-20	15 May-21	27-Nov-20 A	15-May-21 A		27-Nov-20	15-May-21										
1130	Application/approval of pennits or other slatutory submissions by relevant authorities (parties	150	0	100%	100%	27-Nov-20	25-Aar-21	27-Nov-20 A	25-Apr-21 A		27-Nov-20	25-Apr-21										
1140	BM Execution Plan	30	0	100%	100%	27-Nov-20	26-Dec-20	27-Nov-20 A	26-Dec-20 A		27-Nov-20	26-Dec-20				1						
1150	Preparation and submission of BIMs CoBioAssel data deliverables	50	0	0%	0%			13-Jui-25	31-Aug-25	18-Dec-25 05-Feb-2		27-Jul-25	158			110		(
1160	Preparation and submission of fully coordinated as built BIM model	25	0	0%	0%			12-Aug-25		12-Jan-26 05-Feb-2		01-Aug-25	153									
1170	Preparation and submission of proposal of COBie/Asset Information requirements	200	0	0%	0%	07. klas. 02	10-Dec-20	14-Apr-25	30-Oct-25 10-Dec-20.4	21-Jul-25 05-Feb-2		25-Sep-25 10-Dec-20	88					N		11		
1180	Precaration and submission of Draft Safety Plan Ordain comments on Draft Safety Plan	14	0	100%	100% 100%	27-Nov-20 11-Dec-20	10-Dec-20 24-Dec-20	27-Nov-20 A 11-Dec-20 A	10-Dec-20 A 24-Dec-20 A		27-Nov-20 11-Dec-20	10-Dec-20 24-Dec-20										
0.1200	Preparation and Submission of Safety Plan	7	0	100%	100%	25-Dec-20	24-Dec-20 31-Dec-20	25-Dec-20 A	31-Dec-20 A		25-Dec-20	24-Dec-20 31-Dec-20										
1210	Preparation and Submission of Tree Survey Report	111	0	100%	100%	27-Nov-20	17-Mar-21	27-Nov-20 A	17-Mar-21 A		27-Nov-20	17-Mar-21		-								
1220	Ottain Discharge License by Client	1	0	0%	0%			03-Jun-24		03-Jun-24 03-Jun-2		19-Feb-24	0				1 1 1	1				
ION 1				100%		27-Nov-20	18-Nov-21	27-Nov-20 A	18-Nov-21 A		27-Nov-20	16-Nov-21				•	188					
HNICAL F	PROPOSAL for ECI Stage 2			100%		27-Nov-20	18-Nov-21	27-Nov-20 A	18-Nov-21 A		27-Nov-20	18-Nov-21				•		x				
nical Prop	posal for Preliminary Treatment System at CCSTW			100%		03-Jun-21	18-Nov-21	63-Jun-21 A	18-Nov-21 A		03-Jun-21	16-Nov-21				1111		N				
S1.1010	Preparation and approval of content page	10	0	100%	100%	63-Jun-21	12-Jun-21	03-Jun-21 A	12-Jun-21 A		03-JLn-21	12-Jun-21										
\$1.1020	Preparation of design report inducing design intention and list of design parameters / assumptions	25	0	100%	100%	13-Jun-21	07-Jul-21	13-Jun-21 A	07-Jul-21 A		13-Jun-21	07-Jul-21										
\$1.1030	Proparation of process celestation and equipment sizing	25	0	100%	100%	08-Jul-21	01-Aug-21	06-Jul-21 A	01-Aug-21 A		08-Jul-21	0'-Aug-21			-							
1.1040	Preparation of general layout and equipment location plan Preparation of control philosophy	20	0	100%	100%	02-Aug-21 22-Aug-21	21-Aug-21 30-Aug-21	02-Aug-21 A 22-Aug-21 A	21-ALg-21 A 30-ALg-21 A		02-Aag-21 22-Aag-21	21-Aug-21 30-Aug-21					181					
51.1060	Preparation of control princespray Preparation of semaining content of technical prosposal	18	0	100%	100%	22-40g-21 31-Aug-21	18-Sep-21	31-Aup-21 A	18-Sto-21 A		31-Aag-21	18-Sep-21					1 1 1					
1.1070	Dat Submission	0	0	100%	100%	01-mogra	18-Sep-21	0 Holgse FA	18-Sep-21 A		01-mager	18-Sep-21										
1.1080	Brat Submission Comment and Approva	27	0	100%	100%	19-Sep-21	15-Oct-21	19-Sep-21 A	15-Oct-21 A		19-Sep-21	15-Oct-21			ų 🙀							
61.1090	Final Submission	34	0	100%	100%	18-Oct-21	18-Nov-21	16-Oct-21 A	18-Nov-21 A		18-Ocl-21	16-Nov-21										
	posal for MBR System and MBR Building at CCSTW			100%		27-Nov-20	25-May-21	27-Nov-20 A	25-May-21 A		27-Nov-20	25-May-21				1111						
Submissio	n			100%		27-Nov-20	25 May-21	27-Nov-20 A	25-May-21 A		27-Nov-20	25-May-21										
\$1.1110	Preparation and approval of content page	10	0	100%	100%	27-Nov-20	06 Dec-20	27-Nov-20 A	06-Dec-20 A		27-Nov-20	08-Dec-20										
81.1120	Preparation of cestign report including design internion and list of cestign parameters / assumptions	25	0	100%	100%	07-Dec-20	31-Dec-20	07-Dec-20 A	31-Dec-20 A		07-Dec-20	31-Dec-20		_								
51.1130 51.1140	Preparation of process calculation and equipment sizing Proparation of process calculation and equipment sizing	25	0	100%	100%	01-Jan-21 26-Jan-21	25-Jan-21 14-Eeb-21	01-Jan-21 A 26-Jan-21 A	25-Jan-21 A 14-Eeb-21 A		01-Jan-21 26-Jan-21	25-Jan-21 14-Eeb-21		Ē.			4	-		4		
81.1140 81.1150	Preparation of general layout and equipment location plan Preparation of control philosophy	23	0	100%	100%	28-Jen-21 15-Feb-21	14-Heb-21 23-Feb-21	2ti-Jan-21 A 15-Feb-21 A	14-Feb-21 A 23-Feb-21 A		25-Jan-21 15-Feb-21	14-Feb-21 22-Feb-21		- C 1								
51.1160	Preparation of remaining content of technical prosposal	9 19	0	100%	100%	07-Mar-21	25-Mar-21	07-Mar-21 A	25-Mar-21 A		07-Mar-21	25-Mar-21		- I Ç.								
51.1170	Drat Submission	0	0	100%	100%		25-Ma-21		25-Mar-21 A			25-Mar-21		- I 🗔								
S1.1180	Dia1 Submission Comment and Approva	27	0	100%	100%	28-Mar-21	21-Apr-21	26-Mar-21 A	21-Apr-21 A		26-Mar-21	21-Apr-21		- I 🖾								
51.1190	Final Submission	34	0	100%	100%	22-Apr-21	25 May-21	22-Apr-21 A	25-May-21 A		22-Apr-21	25 May-21		_ ∥								
and Structs	unal Submission			100%		23-Dec-20	29 Apr-21	23-Dec-20 A	29-Apr-21 A		23-Dec-20	29-Apr-21										
\$1.1680	Preparation of Design Report	54	0	100%	100%	23-Dec-20	14-Feb-21	23-Dec-20 A	14-Feb-21 A		23-Dec-20	14-Feb-21										
S1.1690	Preparation of B.M. Modeling	12	0	100%	100%	15-Feb-21	27-Feb-21	15-Feb-21 A	27-Feb-21 A		15-Feb-21	27-Feb-21		17								
S1.1700	Submission of Draft Technical Proposal	0	0	100%	100%	28-Feb-21	28-Feb-21	28-Feb-21 A	28-Feb-21 A		28-Fed-21	28-Feb-21		- Ť-	4444	4			4.4.			
31.1710	Draft Submission Comment and Approva Final Submission (With ICE Certificate)	27	0	100%	100%	28-Feb-21 27-Mar-21	26-Mar-21 29-Apr-21	28-Feb-21 A 27-Mar-21 A	26-Mer-21 A 29-Apr-21 A		28-Feb-21 27-Mar-21	26-Mar-21 29-Apr-21		17								
51.1720 nical Prop	Final Submission (With CE Certificate) posal for Sludge Treatment System at CCSTW	34	0	100%	100%	27-Mar-21 27-Nov-20	29-Apr-21 25-May-21	27-Mar-21 A 27-Nov-20 A	29-Apr-21 A 25-May-21 A		27-Mar-21 27-Nov-20	29-Apr-21 25-May-21		1.00			1 8 8					
1.1210	Preparation and approval of content page	10	0	100%	107%	27-Nov-20	06-Dec-20	27-Nov-20 A	23-May-21 A 06-Dec-20 A		27-N09-20 27-N09-20	08-Dec-20										
1.1220	Preparation of cestign report inclucing cestign intention and list of cestign parameters / assumptions	25	0	100%	100%	07-Dec-20	31-Dec-20	07-Dec-20 A	31-Dec-20 A		07-Dec-20	31-Dec-20										
1.1230	Preparation of process calculation and equipment sizing	25	0	100%	100%	01-Jan-21	25-Jan-21	01-Jan-21 A	25-Jan-21 A		01-Jan-21	25-Jan-21				1111-						
\$1.1240	Preparation of general layout and equipment location plan	23	0	100%	100%	28-Jan-21	14-Feb-21	26-Jan-21 A	14-Feb-21 A		2E-Jan-21	14-Feb-21		H I								
1.1250	Preparation of control philosophy	9	0	100%	100%	15-Feb-21	23-Feb-21	15-Feb-21 A	23-Feb-21 A		15-Fed-21	23-Feb-21		4								
1.1250	Preparation of remaining content of technical prosposal	19	0	100%	100%	07-Mar-21	25-Mar-21	07-Mar-21 A	25-Mer-21 A		07-\far-21	25-Mar-21										
	Densilian															ou 17:-	•	Date		Revision	Chec	Appr
	imary Baseline	DC/201	19/07 O	UTLYING	ISLAND	S SEWER				F CHEUNG CI			IMENT AND	DISPO	SAL FA	CILITIE	5	30-Nov-22	_		JL	CL
							DEVICE			ALC: 1 00 /00		0000)							1.00		~-	
	tual Work						REVISE	DPROGR	AMINE - M	REV. 22 (28	February	2023)						31-Dec-22	Rovi	21	1.1	
Ac	tual Work emaining Work						REVISE	DPROGR	AMIVIE - N (Page		February	2023)						31-Dec-22				CL
Ac							REVISE	DPROGR			February	2023)						31-Dec-22 28-Feb-23	Rev. Rev.			CL



ty D	Activity Name	Orl. Dur (d	i) TRA (d)	Time Elapsed N	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Lale Start L	to Finish Early Start (Ro	Early Finish (Rev. 20)	Total Amender Float Activitie	1	2021	202	2	2023		2024		2025	2026
DC.\$1.1270	Drat Submission	0	0	100%	Workdone % 100%		25-Mar-21		25-Mar-21 A		20)	(Rav. 20) 25-Mar-21	rioat Activitie		u2 03 04	01 02	40 04	<u>u1 02 0</u>	1 94 91	02 01	u4 01 1	u2 03 04	<u>q1 02 01</u>
DC.S1.1280	Diat Submission Comment and Approva	27	0	100%	100%	26-Mar-21	21-Apr-21	26-Mar-21 A	21-Apr-21 A		26-Mar-21	21-Apr-21		Ť			-8-6						
DC.S1.1290	Final Submission	34	9	100%	100%	22-Apr-21	25-May-21	22-Apr-21 A	25-May-21 A		22-Apr-21	25-May-21							41.01				
Technical Prop	osal for Electrical Works at CCSTW			100%		27-Nov-20	25 May-21	27-Nov-20 A	25-May-21 A		27-Nov-20	25-May-21					88		2				
DC.S1.1310	Preparation and approval of content page	10	0	100%	100%	27-Nov-20	06-Dec-20	27-Nov-20 A	08-Dec-20 A		27-Nov-20	06-Dec-20					88		1				
DC.S1.1320	Preparation of design report including design intention and list of design parameters / assumptions	25	0	100%	100%	07-Dec-20	31-Dec-20	07-Dec-20 A	31-Dec-20 A		07-Dec-20	31-Dec-20		_									
DC.\$1.1330 DC.\$1.1340	Preparation of process calculation and equipment sizing	25	0	100%	100%	01-Jan-21	25-Jan-21	B1-Jan-21 A	25-Jan-21 A		01-Jan-21	25-Jan-21		- C. I					1				
DC.91.1340 DC.91.1350	Preparation of general layout and equipment location plan Preparation of control philosophy	20	0	100%	100%	28-Jan-21 15-Feb-21	14-Feb-21 06-Mar-21	26-Jan-21 A 15-Feb-21 A	14-Feb-21 A 06-Mar-21 A		28-Jan-21 15-Feb-21	14-Feb-21 06-Mar-21		- 0.1			9.8		1				
DC.S1.1380	Preparation of control princeophysy Preparation of remaining content of technical proggosal	19	0	100%	100%	07-Mar-21	25-Ma-21	07-Mar-21 A	25-Mar-21 A		07-Mar-21	25-Mar-21		16			200				1		
DC.S1.1370	Dart Submission	0	0	100%	100%		25-Ma-21		25-Mar-21 A			25-Mar-21											
DC.S1.1380	Braft Submission Comment and Approva	27	0	100%	100%	26-Mar-21	21-Apr-21	26-Mar-21 A	21-Apr-21 A		26-\iar-21	21-Apr-21		14			- 1 - 1				fi		
DC.S1.1390	Final Submission	34	0	100%	100%	22-Apr-21	25-May-21	22-Apr-21 A	25-May-21 A		22-Apr-21	25-May-21							1				
Technical Prop	osal for Temp. Works Design for the 1st 3months of ECI S2			100%		16-Jan-21	23-May-21	16-Jan-21 A	23-May-21 A		15-Jan-21	23-May-21					- 9 8		5				
DC.S1.1410a	Preparation and approval of Technical Prosposal for ELS Design of Sludge Digester Building	67	0	100%	100%	18-Jan-21	23-Mar-21	16-Jan-21 A	23-Mar-21 A		18-Jan-21	23-Mar-21					Ŭ E		200				
DC.S1.1410b	Preparation and approval of Technical Proposal for ELS Design of LV Main Switch Rm, Transformer Rm & WAS Storage Tanks	67	0	100%	100%	18-Jan-21	23-Mar-21	16-Jan-21 A	23-Mar-21 A		18-Jan-21	23-Mar-21					. 8. 6						
DC.S1.1410c	Preparation and approval of Technical Proposal for ELS Design of VBR Treatment Facilities	67	0	100%	100%	18-Jan-21	23-Mar-21	16-Jan-21 A	23-Mar-21 A		18-Jan-21	23-Mar-21					9.8		5				
DC.S1.14106 DC.S1.1420	Preparation and approval of Technical Proposal for ELS of 750mm clameter emergency bypass diversion at PSSPS	67	0	100%	100%	18-Jan-21	23-Mar-21 23-Mar-21	16-Jan-21 A	23-Mar-21 A 23-Mar-21 A		18-Jan-21	23-Mar-21 23-Mar-21					10		200		1		
DC.S1.1420 DC.S1.1430	Draft Submission Draft Submission Comment and Approva	27	0	100%	100%	24-Mar-21	25-M8-21 19-Apr-21	24-Mar-21 A	25-Mer-21 A 19-Apr-21 A		24-\(ar-21	22-Mar-21 19-Apr-21		- 12					1			1.1	
DC.S1.1430	Enal Submission Comment and Approva	2/	- 0	100%	100%	20-Apr-21	73-May-21	20-Apr-21 A	73-Mar-21 A		24-Mar-21	23-Mev-21		- C			1		21.52				
	osal for Accommodation for the Project Manager's Supervisor's & Contractor's Co-Office		0	100%	10014	23-Mpr-21 27-Nov-20	25-Ma-21	20-Apt-21 A	25-May-21 A		21-Apr-2	25-Mar-21		- H- J	1			-			r		
DC.S1.1460	EC Stage 1 - Technical proposal for accommodation for the Project Manager's Supervision's & Contractor's co-office	119	0	100%	100%	27-Nov-20	25-Ma-21	27-Nov-20 A	25-Mar-21 A		27-Nov-20	25-Mar-21			H 11		- 8 6		1.00				
	osal for DfMA including application of prefabrication and MIC			100%		28-Jan-21	29-Jun-21	26-Jan-21 A	29-Jun-21 A		28-Jan-21	29-Jun-21			H 11		- N (100				
DC.S1.1480	Preparation and approval of content page	48	0	100%	100%	28-Jan-21	12-Mar-21	26-Jan-21 A	12-Mar-21 A		28-Jan-21	12-Mar-21		1			88		1				
DC.S1.1430	Preparation of cesign memorandum for Civil DMA	30	0	100%	100%	13-Mar-21	11-Apr-21	13-Mar-21 A	11-Apr-21 A		13-Mar-21	11-Apr-21				IIII. I	. y f		1	11.11			
DC.S1.1530	Preparation of cesign memorandum for E&M DIMA	32	0	100%	100%	13-Mar-21	11-Apr-21	13-Mar-21 A	11-Apr-21 A		13-Mar-21	11-Apr-21							-			11	
DC.S1.1530	Preparation of remaining content of technical prosposal	19	0	100%	100%	12-Apr-21	30-Apr-21	12-Apr-21 A	30-Apr-21 A		12-Apr-21	30-Apr-21		19			9.8		5				
DC.S1.1540	Drat Submission	0	0	100%	100%		30-Apr-21		30-Apr-21 A			30-Apr-21					10		10		1		
DC.S1.1550	Dra t Submission Comment and Approva	24	0	100%	107%	01-May-21	24 May 21	01-May-21 A	24-May-21 A		01-May-21	24 May-21					88		5				
DC.S1.1580	Fnal Submission	38	g	100%	100%	25-May-21	29-Jun-21	25-May-21 A	29-Jun-21 A		25-May-21	29-Jun-21					- U - U						
ITE PREPAR	ATION WORKS			100%		27-Nov-20	15-May-21	27-Nov-20 A	15-May-21 A		27-909-20	15-May-21											
DC S1.1580a	Design of MiC Co-Office Fabrication of MiC Co-Office	15	0	100%	100%	08-Mar-21 28-Jan-21	23-Mar-21 23-Mar-21	06-Mar-21 A 28-Jan-21 A	23-Mar-21 A 23-Mar-21 A		06-Mar-21 28-Jan-21	23-Mar-21 23-Mar-21					9.8		5				
DC S1.15800 DC S1.1590		184	6	100%	100%	25-Jan-21 27.New.20	23-Mar-21 15-May-21	28-Jan-21 A 27-Nov-20 A	23-MBF-21 A 15-May-21 A		28-Jan-21 27-Nov-20	23-Mar-21 15 Max/21							100		1		
DC S1.1800	Site clearance, set up site hearding, provision of temporary fence, and erection of project signopand Sm.ctural Condition Survey	34	2	100%	100%	10-Apr-21	15 May 21	10-Apr-21 A	15-May-21 A		10-Apr-21	15 May-21					88		5				
DC S1.1630	Ground Investigation (45 nos, 3 rig. 2team) with relevant subletting and site setup	82	6	100%	100%	20-Jan-21	10-May-21	20-Jan-21 A	10-May-21 A		20-Jan-21	10-Msy-21		-			- 1 - 6						
DC 51.1640	Setup of monitoring and instrumentation system	119	8	100%	100%	02-Jan-21	08 May -21	02-Jan-21 A	08-May-21 A		02-Jan-21	08-Msv-21											
DC S1.1660	In tal she survey record	56	4	100%	100%	27-N:v-22	25-Jan-21	27-Nov-20 A	25-Jan-21 A		27-Nov-20	25-Jan-21					Ŭ E		1				
DC S1.1670	Conduct/UU detection and issuance of UU detection report	28	2	100%	100%	21-Dao-22	19-Jan-21	21-Dec-20 A	19-Jan-21 A		21-Dec-20	19-Jan-21		-									
DC S1.1871#	Installation of Precomptor PS1 to PS3	48	0	100%	100%	31-Mar-21	15-May-21	31-Mar-21 A	15-May-21 A		31-Mar-21	15-May-21		14			9.8		5				
Raw Sewerage	Sampling Survey			100%		27-Nov-20	06-Feb-21	27-Nov-20 A	06-Feb-21 A		27-Nov-20	08-Feb-21							i.				
DC.S1.1610a	Conduct Initial Reconnaissance Visit	13	1	100%	100%	27-Nov-20	10-Dec-20	27-Nov-20 A	10-Dec-20 A		27-Nov-20	10-Dec-20							201		1	1.1	
DC.S1.1610b	Submit Report of Initial Recommissioner Visit	5	0	100%	100%	11-Dec-20	15-Dec-20	11-Dec-20 A	15-Dec-20 A		11-Dec-20	15-Dec-20					9.6		1.11				
DC.S1.1610c	Approval of Report of Initial Recontraissance Visit		0	100%	100%	16-Dao-20	22-Dec-20	18-Dec-20 A	22-Dec-20 A		16-Dec-20	22-Dec-20 29-Dec-20							26.22		a 1		
DC.S1.16106 DC.S1.1610e	Preparation work for Raw Sewage Sampling Conduct Raw Sewage Sampling	14	0	100%	100% 100%	23-Dao-20 30-Dao-20	29-Dec-20 12-Jan-21	23-Dec-20 A 30-Dec-20 A	29-Dec-20 A 12-Jan-21 A		23-Dec-20 30-Dec-20	294Dec-20 12-Jan-21		-E-H									
DC S1 1610F	Submission of Survey Report	21	0	100%	100%	13. Jan.21	12-Jair-21 (12-Eeh-21	13-Jan-21 A	02-Feb-21 A		13-Jen-21	02-5ab-21							1				
DC.S1.1610c	Comment and Approval of Survey Report	2	0	100%	100%	03-Feb-21	04-Feb-21	03-Feb-21 A	04-Fab-21 A		03-Feb-21	04-Feb-21		-121					2		1		
DC.S1.1610h	Submission of Final Survey Report	2	0	100%	100%	05-Feb-21	06-Fub-21	05-Feb-21 A	06-Fab-21 A		05-Fp0-21	08-Feb-21		무비								1.1	
	e Monitoring System			100%		27-Nov-20	10-Jan-21	27-Nov-20 A	10-Jan-21 A		27-Nov-20	10-Jan-21		+					76				
DC.S1.1620a	Carry out site investigation and submit Reconneisance Survery Report	42	3	100%	100%	27-Nov-20	10-Jan-21	27-Nov-20 A			27-Nov-20	10-Jan-21											
COMPLETION	OF SECTION 1			0%		28-May-21	29-May-21	29 May-21 A	29-May-21 A		28-May-21	29-Msy-21							1				
DC S1.1850	Completion of Section 1 (Working Days)	0	0	100%	100%		29-May-21		29-May-21 A			29-May-21			* 1		88		10.00			1.1	
ECTION 2 - Up	ograding the existing Pak She Sewage Pumping Station (PSSPS)		_	96.28%		27-Nov-20		27-Nov-20 A	31-Har-23	28-Feb-23 3	1-Mar-23 27-Nov-20	24-Mar-23	0				11	T					
ROCUREME	NT, FABRICATION and DELIVERY of MAJOR E&M EQUIPMENT			98.09%		19-Mar-21		19-Mar-21 A	15-Har-23	28-Feb-23 1	5-Mar-23 27-Nov-20	28-Jan-23	0				. 9 F		11				
DC S2.1005s	Tendering of Subcontrator	45	0	100%	100%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-Aug-21 A		12-Jul-21	25-Aug-21			-				1			11	
DC SZ.10055	Equipment Submission and Approval (Other equipment)	141	0	100%	100%	28-Aug-21	14-Jan-22	26-Aug-21 A	14-Jan-22 A		26-Aug-21	22-Jan-22				B			4				
DC SZ 1005c	Equipment Submission and Approval (Screw Pumps)	40	0	100%	100%	31-Aug-21	09-Oci-21	31-Aug-21 A	09-0cl-21 A		26-Aug-21	04-Oct-21				hii fi	- M B		1				
DC S2.10055	Equipment Submission and Approval (Pensitocis)	189	0	100%	100%	31-Aug-21	08-Ma-22	31-Aug-21 A	08-Mar-22 A		27-Nov-20	3'-Mar-21				·····			5				
DC S2.1005e	Equipment Submission and Approval (DOU)	131	0	100%	100%	31-Oct-21 30-Nov-21	11-Mar-22 01-Mar-22	31-0ct-21 A 30-Nov-21 A	11-Mar-22 A		27-Nov-20 27-Nov-20	11-Mar-21					-4.4			44-4-1			
DC S2.1005f	Equipment Submission and Approval (VSD) Equipment Submission and Approval (Rowmeter)	9'	0	100%	100%	30-Nov-21 03-Dec-21	01-Mar-22 24-May-22	30-Nov-21 A 03-Dec-21 A	01-Mar-22 A 24-May-22 A		27-Nov-20 27-Nov-20	22-Jan-21 17-May-21		-Ett		i Tith	FT		2.00				
C SZ 1005; C SZ 1005;	Equipment Submission and Approval (Howtheer) Equipment Submission and Approval (FRP Cover of Soney Pump)	1/2	0	100%	100%	29-Eeb-22	24-M8y-22 08-Jun-22	28-Feb-22 A	24-May-22 A 08-Jun-22 A		27-909-20	17-M8y-21 08-Mar-21			n tt		rt	1	4				
00 SZ 10051	Equipment Submission and Approval (LVSB)	95	0	100%	100%	03-Jan-22	11-Aur-22	03-Jan-22 A	11-Apr-22 A		28-Feg-22	13-Apr-22							1				
DC S2.1010s	Procurement (Other eculpment)	6	0	100%	100%	08-Jan-22	14-Jan-22	08-Jan-22 A	14-Jan-22 A		08-Jan-22	14-Jan-22				HIII	111		5				
	Procurement (Sciere Pumps)	7	0	100%	100%	24-Sep-21	24-Sep-21	24-Sep-21 A	24-Stp-21 A		05-Oci-21	11-Ocl-21			H								
DC SZ 1010a10		1	0	100%	100%	03-Jan-22	04-Jan-22	03-Jan-22 A	04-Jan-22 A		17-Mar-21	18-Mar-21											
DC S2.1010s10 DC S2.1010s20	Procurement (Perstocks)			1004	100%	20-Mar-22	21-Mar-22	20-Mar-22 A	21-Mar-22 A		20-Mar-22	2"-Mar-22							11				
IC S2.1010a20	Procurement (Pensibolis) Procurement (DOU)	2	0	100%	100.0		2.1.1100	20,000,022,04															
DC S2.1010a20		2	0	100%	100.4	20 100 22	211102-02	201011223							0.110								
0C S2.1010s20 0C S2.1010s30	Procurement (DOU)	2 DC/201										GE TREAT		DISPO	SAL FA			Da	te	Rev	vision	Chec	Appro
00 S2.1010s20 00 S2.1010s30 Prir	Prouvener(100)	2 DC/201					RAGE STA	GE2 - UPG	RADING C		G CHAU SEWA		MENT AND	DISPO	SAL FA	CILITIES	;	Da 30-Nov		Rev Rev. 20		Chec JL	Appro
00 52.1010s20 00 52.1010s30 Prin Act	Prouverent(300) many Baseline ual Work	2 DC/201					RAGE STA	GE2 - UPG	RADING C	REV. 22			MENT AND	DISPO	SAL FA	CILITIES	;		√-22 F			Chec JL JL	
DC 52.1010s20 DC 52.1010s30 Prin Act	Prouvener(100)	2 DC/20					RAGE STA	GE2 - UPG	RADING C		G CHAU SEWA		MENT AND	DISPO	SAL FA	CILITIES	i	30-Nov 31-Dec	/-22 F	Rev. 20 Rev. 21		JL JL	CL
00 52 1010s20 00 52 1010s30 Prin Act Rei	Prouverent(300) many Baseline ual Work	2 DC/20					RAGE STA	GE2 - UPG	RADING C	REV. 22	G CHAU SEWA		MENT AND	DISPO	SAL FA	CILITIES	;	30-Nov	/-22 F	Rev. 20		JL	CL

Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 29th EM&A Report – December 2023



	Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed %	Actual	Actual Start	Actual Finish	Early Start	Early Finish Late Start	Late Finish	Early Start (Rev.	Early Finish Total Amended (Rev. 20) Float Activities	2	21		022	2023		2024		2025		2026
DC 52.1010x40	Descences (1997)	4	0	100%	Workdone % 100%	28-Jan-22	26-Jan-22	26-Jan-22 A	26-Jan-22 A		20) 23-Jan-21	(Rev. 20) Float Activities 23-Jpn-21	01 02	03 0	4 01 0	03 04	Q1 02 0	1 04 01	02 0	3 04 0	1 02 03	Q4 Q1	Q2 Q3
C S2.1010840 C S2.1010850	Procurement (VSD) Procurement (Flowmeter)	1 126	0	100%	100%	28-Jan-22 28-Jan-22	26-Jan-22 27-Jan-22	26-Jan-22 A 26-Jan-22 A	26-Jan-22 A 27-Jan-22 A		23-Jan-21 28-Jan-22	23-Jan-21 28-Jan-22	11th	ПŤ		N U		11.12				1 1	
IC 52.1010/90	Procurement (Howneter) Procurement (HRP Cover of Screw Pump)	126	0	100%	100%	30-May-22	30-May-22	30-May-22 A	30-May-22 A	_	2c-Jan-22 30-May-22	20-J80-22 30-Mtw-22	-148	44		41-41-						÷	
C SZ 101080	Procurement (LVSB)	1	0	100%	100%	05-Mar-22	05-Ma-22	05-Mar-22 A	05-Mar-22 A	-	05-Mar-22	05-Mar-22		111		U U		2				1 1	
C S2.10108/0 C S2.10106	Produmment (1/V3b) Fabrication (Ofner acyspinent)	253	0	100%	100%	29-Feb-22	05-Ma-22 07-Nov-22	28-Feb-22 A	05-Mar-22 A 07-Nov-22 A		28-Feb-22	05-Mar-22 07-New-22		111		61 Û						1 1	
C SZ 10106	Fabrication (Screw Pumps)	199	-0 -0	100%	100%	12-0:0-21	29-Aur-22	12-Oct-21 A	29-Apt-22 A	-	12-Ocl-21	28-Acr-22		l U.		ïΓ		1				1 1	
IC SZ 1010670	Fabrication (Porstocka)	65	0	100%	100%	19-Mar-21	11-Jun-21	19-Mar-21 A	11-Jun-21 A	-	19-Mar-21	1'-Jun-21											
DC S2.1010620	Fabrication (POU)	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									-		
C S2.1010540	Estatication (VS2)	101	0	100%	100%	28-Feb-22	08-Jun-22	28-Feb-22 A	08-Jun-22 A		28-Feb-22	08-Jun-22		111	_								
DC 52.1010550	Estrication (Flowmeter)	122	0	100%	100%	20-May-22	18-Sep-22	20-May-22 A	18-Stp-22 A		20-May-22	18-Sep-22		111	1							1 1	
DC 52.1010660	Exploration (FRP Cover of Screw Pump)	277	0	98,56%	88,45%	31-May-22	10 Othas	31-May-22 A	03-Var-23 28-Feb-23	03-Mar-23	31-May-22	16-Dec-22 0 *		111	L	0	4	5			1.1	i i	
DC S2.1010660	Fabrication (LVSB)	90	0	100%	100%	10-May-22	07-Aug-22	10-May-22 A	07-AL0-22 A	23-848-23	10-May-22	07-Aup-22		111								1 1	
DC S2 10106/0	Fabrication (EV20)	142	0	100%	100%	10-May-22	28-Sep-22	10-May-22 A	28-Seo-22 A		10-May-22	28-Sep-22							++-++		· ••••••	÷	
DC 32.1010cs0	Delitery (Other equipment)	30	0	100%	100%	08-Nov-22	07-Dec-22	08-Nov-22 A	07-Dec-22 A		08-Nov-22	07-Dec-22									1.1	1 1	
DC 82.1010c10	Delirory (Scele Pump)	94	0	100%	100%	30-Apr-22	01-Aug-22	30-Apr-22 A	01-Aug-22 A	-	30-Apr-22	0'-Aug-22		111				5					
DC 82.1010:20	Delivery (Scow Policy) Delivery (Penstoks)	37	0	100%	100%	12-Jun-22	18-Jul-22	12-Jun-22 A	18-Jul-22 A		12-Jun-22	18-Jul-22						2				1 1	
DC 82.1010:20 DC 82.1010:30	Delivery (Polisicos) 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		110				2				1 1	
DC 82.1010630	Delivery (USD)	34	0	100%	100%	09-Jun-22	12-Jul-22	09-Jun-22 A	12-Jul-22 A		06-Jun-22	285ari23 12-Jul-22							-		-	1	
DC S2.1010:50	Delivery (Fourielar)	27	0	100%	100%	30-Sec-22	20-Oct-22	30-Sep-22 A	20-0ci-22 A		30-Sep-22	20-061-22		111		T L		5				1 1	
DC 521010550 DC 521010550	Delinery (PDWTeter) Delinery (PRP Cover of Screw Punip)	12	0	0%	0%	au-aep-22	204061-22	04-Mar-23		15-b/ar-23	19-Dec-22	20-06-22 24-Jan-23 0 ^				UTL	<u>/</u>				1.1	i i	
			0			60.4×× 02	0f 0 20			13-6/80-2.3				110			N	200				1 1	
C SZ 1010:70	Delinery (LVSB)	29	0	100%	100%	08-Aug-22 30-Sec-22	05-Sep-22 10-Nov-22	08-Aug-22 A 30-Sep-22 A	05-Sep-22 A 10-Nov-22 A	-	08-Aug-22 30-Sep-22	05-Sep-22 10-Nov-22		111		ii 🛓						1 I	
DC 32 1010090	Deliery (PLC) RUCTURAL WORKS	12	U	100%	100%	30-36p-22	104909-22	30-56p-22 A	101909-22 M		30-5ep-22	104N64-22		Щ	1				++++		-	++	
				10016		27-9629-25	10-0cp-22	27-M0V-20 A	10-3cp-22 A		27-107-20			111								1 1	
	emergency by-pass			100%	40.00	27-Nov-20	13-Sep-22	27-Nov-20 A	13-Sep-22 A		27-Nov-20	13-Sep-22	INT	IT		IN		area.				1 1	
DC.S2.1020	Expose and install protect/support system for existing underground utilities and services (HGC, CLP, etc)	25	2	100%	100%	23-Jun-21	03-Aug-21	29-Jun-21 A	03-ALg-21 A		29-Jun-21	03-Aug-21		P11								1 1	
DC.S2.1021	Delivery of percast concrete pipe and manhole 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						10.00	11.0			1 1	
DC.S2.1022	Samples testing for percast concrete pipe and manhole fittings	30	0	100%	100%	04-Jan-21	02-Feb-21	04-Jan-21 A	02-Feb-21 A		04-Jan-21	02-Feb-21	n III	111					1	-	-	1	
DC.S2.1030	Installation of ELS for TTA Stage 1 and construction of 750 dia, emergency syspass and 3 manholes (BPMH01,02804)	80	10	100%	100%	04-Aug-21	19-Nov-21	04-Aug-21 A	19-Nov-21 A		04-Aug-21	19-Nov-21											
DC.S2.1031	Backfilling, Removal of Temporary Supports and Reinstatement of Footpath at Ping Chong Road	28	3	100%	100%	20-Nov-21	21-Dec-21	20-Nov-21 A	21-Dec-21 A		20-Nov-21	21-Dec-21		111	P-9-18-1			1				1 1	
DC.S2.1040	Implementation of TTA Stage 2 to enclose works area of manifole BPMH03	6	0	100%	100%	20-Nov-21	26-Nov-21	20-Nov-21 A	26-Nov-21 A		20-Nov-21	26-Nov-21		l i i i	8							1 1	
DC.S2.1050	Installation of ELS and construction of 750 dial emergency bypass for connection to manhole BPMH03	40	7	100%	100%	27-Nov-21	24-Jan-22	27-Nov-21 A	24-Jan-22 A		27-Nov-21	24-Jan-22				#		5					
DC.S2.1070	Backfilling, Removal of Temporary Supports and reinstatement of existing road at Ping Chorg Road	25	2	100%	100%	25-Jan-22	03-Mar-22	25-Jan-22 A	03-Mer-22 A		25-Jan-22	02-Mar-22								_		1	
DC.S2.1080	Pipe CCTV survey, application manhole protective coal, capping and sealing of existing bypass and final connection works	21	1	100%	100%	05-May-22	31-May-22	05-May-22 A	31-Nay-22 A		05-May-22	31-May-22			+			2				1	
DC.S2.1150	Submission of as-constructed records after completion of permanent reinstatement of the lootpath	14	0	100%	100%	04-Mar-22	13-Scp-22	04-Mar-22 A	13-Stp-22 A		04-\far-22	13-Sep-22			-							1 1	
DC.S2.1160	Submission of as constructed point cloud records after laying of the 750 mm diameter precast concrete pipes	14	0	100%	100%	04-Mar-22	13-Sep-22	04 Mar-22 A	13-Stp-22 A		04-Mar-22	13-Sep-22		111	-			1				1 1	
E&M WORKS				93,94%		20-Oct-21		20-0ct-21 A	31-Bar-23 28-Feb-23	31-Mar-23	20-001-21	24-Mar-23 0		110							1.1		
DC SZ 1085a	Perparation and Submission of TTA Drawings for Pump Replacement Works	154	0	100%	100%	20-Oct-21	22-Apr-22	20-Oct-21 A	22-Apr-22 A		20-Oci-21	17-Jan-22		11				2.00					
DC S2.1085b	Obtain Approval of TTA Drawing from relevant parties	30	0	100%	100%	29-Apr-22	28 May-22	29-Apr-22 A	28-May-22 A		29-Apr-22	28 May-22			-							÷ 1	
DC S2.1085c	Implementation of TTA for Pump Replacement Works	11	0	100%	100%	24-Jun-22	04-Jul-22	24-Jun-22 A	04-Jul-22 A		24-Jun-22	24-Jun-22		110	· · · ·			1				1 1	
DC S2.1090a	Removal of Existing Penetock No.3 and Sonew Pump No. 3 and Civil Works for New Installation	23	0	100%	100%	19-Jul-22	13-Aug-22	19-Jul-22 A	13-ALg-22 A		19-Jul-22	13-Aug-22		111		11		1				÷ +	
DC S2.10905	Installation of New Sonew Pump No.3	2'	9	100%	100%	18-Aug-22	12-Sep-22	18-Aug-22 A	12-Sep-22 A		18-Aag-22	12-Sep-22		111		1		1				1 1	
DC S2.1090:	Screeding for the screw pump trough for Screev Pump No.2	12	9	100%	100%	13-Sep-22	27-Stp-22	13-Sep-22 A	27-Sep-22 A		13-Stp-22	21-Sep-22	_								J. J	ii	
DC SZ 10905	Perparation Works and Carry out Dry Test and Well Test for Scree Pump No.3	13	0	100%	100%	09-Nov-22	21-Nov-22	09-Nov-22 A	21-Nov-22 A		09-Nov-22	21-Nov-22		111				9				1	
DC SZ 1090510	Installation of Now Perstock No.3 and Site Acceptance Teel	54	0	100%	100%	13-Sep-22	16-Nov-22	13-Sep-22 A	16-Nov-22 A		13-Scp-22	16-Nov-22											
DC SZ 1090420	Weterprecing Cealing at Screw Pump Trough No.3	34	0	100%	100%	30-Sep-22	10-Nov-22	30-Sep-22 A	10-Nov-22 A		30-Scp-22	10-Nov-22		111				1.1				1 1	
				100%	100%	22-Nov-22	03-Dec-22	22-Nov-22 A	03-Dec-22 A		22-Nov-22	10-Dec-22		111		1 17		5				1	
DC 82.1091a	Removal of Existing Penstock No. 2 and Screw Pump No. 2 and Civil Works for New Installation	1.														1 15	ř						
DC S2.10915	Installation of New Screw Pump No.2	8	0	100%	100%	05-Dao-22	13-Dec-22	05-Dec-22 A	13-Dec-22 A		12-Dec-22	0e-Jan-23							11.11		1.1		
DC S2.10915 DC S2.10915	Instellation of New Screw Pump No.2 Screeding for the screw pump Inough for Screw Pump No.2	8	0	100%	100%	14-Dzo-22	06-Jan-23	14-Dec-22 A	06-Jan-23 A		10-Jan-23	2'-Jan-23		ш				2				1 I	
DC 52.10915 DC 52.10915 DC 52.10915	Installation of New Serve Purp No.2 Someding for the screw pump Insugh for Scree Punc No.2 Personation West and Carry ou: Dry Trais and Wet Test for Scree Punc No.2	8 18 6	0	100% 100%	100% 100%	14-Dec-22 15-Jan-23	06-Jan-23 20-Jan-23	14-Dec-22 A 15-Jan-23 A	06-Jan-23 A 20-Jan-23 A		10-Jan-23 04-Feb-23	2'-Jan-23 14-Feb-23					t⇒rη						
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C S2.1152	Activity Name	Orl. Dur (d	2 1164 (0)	Time Elapsed %	Workdone 5	Actual Start	Actual Finish	Early Start	Early Finish	Lose Start	Late Finish	Early Start (Rov. 20)	Early Finish (Rev. 20)	Total As Float A	mended ctivities	2021	1.01	02 01	Q4 Q1 D2	n na l				125	202	<u>0</u>
	Installation of MCPs and related cable termination	2'	0	100%	Workdone S 100%	06-Sec-22	30-Sep-22	06-Sep-22 A	30-Sep-22 A			20) 06-Sep-22	(Rev. 20) 30-Sep-22	Fight A	can/Bes	02 03	G4 01		04 01 02	1 03 04	Q1 02	- 03 04	01 02	03 04	<u>ut 02</u>	40 0
S2.1155	Installation of Level Electrode	14	0	100%	100%	04-Jan-23	17-Jan-23	64-Jan-23 A	17-Jan-23 A			04-Jan-23	17-Jan-23							<u> </u>						
S2.1160b05 S	Submission of Draft O&M manual	103	0	100%	100%	31-Jul-22	11-Nov-22	31-Jul-22.A	11-Nov-22 A			31-Jul-22	07-Dec-22				111	j 🛏	Ă.		111			1 1		-
	Submission of Final C&M manual	65	0	100%	100%	30-Nov-22	22-Feb-23	30-Nov-22 A	22-Feb-23 A			30-Nov-22	07-Feb-23					111						1		
SZ.1160520	O&M Training to DSD/ST2	15	0	D%	03.			09-Mar-23	23-Har-23	09-Mar-23	23-b/ar-23	08-Feb-23	12-Feb-23	0						1						
	Installation of DOU6 and SAT	48	0	39.12%	39%	07-Feb-23		07-Feb-23 A	31-Har-23		31-b/ar-23	30-Jan-23	22-Mar-23	0	•			411	. 147.							
	Handover Inspection with DSD/ST2	1	0	0%	0%			29-Mar-23	30-Har-23	29-Mar-23	29-b/ar-23	22-Mar-23	22-Mar-23	0	•		110	لالال		1				1.1.		
	30-day 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		·					1			1			
	OF SECTION 2			0%		20-Feb-23	20-Feb-23	20-Feb-23 A	20-Feb-23 A			24-Mar-23	24-Mar-23							1			1			
	Completion of Section 2 (Working Days)	0	0	100%	100%		20-Feb-23		20-Feb-23 A				24-Mar-23		•				•	20						
CTION 3				50.52%		27-N09-25		27-Nov-20 A	13-May-25	11-Jun-22	13-66y 25	27-309/20	02-06125	0									1.			
	truction 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				الساسان				- - -		4		
	Baseline Mointoring for Air and Noise	21	0		100%	21-Jun-21	11-Jul-21		11-Jul-21 A			21-Jun-21	11-Jul-21			LH	110			1			1	1.1		
	chnical Proposal	47	0	100%	107%	29-May-21	15-Jun-21	29-May-21 A	15-Jun-21 A 14-Jun-21 A			26-Mar-21	02-Dec-21 02-Dec-21													
	Acceptance of Technical Proposal of Protininary Treatmant System at CCSTW Acceptance of Technical Proposal for MBR System and MBR Building at CCSTW (E8M)	13	0	100%	100%	01-Jun-21 01-Jun-21	14-Jun-21 14-Jun-21	01-Jun-21 A 01-Jun-21 A	14-Jun-21 A			19-Nov-21 26-May-21	02-Dec-21 08-Jun-21							200						
	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													
	Acceptance of Technical Proposal for Studge Treament System at CCSTW	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jan-21 A	14-Jun-21 A			26-May-21	08-Jun-21											+		
	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													
	Acceptance of Technical Proposal for Temp. Works Design for the 1s13 months of ECI S2	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			24-May-21	30-May-21							. <u>E</u>						
	Approval of Technical proposal for accommodation of co-office	3	0	100%	100%	29-May-21	01-Jun-21	20-May-21 A	01-Jun-21 A			26-\tar-21	29-May-21			-				1						
	Acceptance of Technical Proposal for DRMA including application of analabrication of NiC	14	0	100%	100%	61-Jun-21	15-Jun-21	01-Jun-21 A	15-Jun-21 A			30-Jun-21	14-Jul-21			۹.,				- F						
stallation of MiC				100%		02-Jun-21	29-Jun-21	02-Jun-21 A	29-Jun-21 A			24-Mar-21	14-Jul-21			T		111				the first second se		1		
C.S1.1580c [Delivery of Modules for MIC Co-Office	4	0	100%	100%	02-Jun-21	07-Jun-21	02-Jun-21 A	07-Jun-21 A			24-Mar-21	29-Mar-21			- 1				5						
	Installation of HIC Co-Office	18	2	100%	100%	04-Jun-21	29-Jun-21	04-Jan-21 A	29-Jun-21 A			19-Jun-21	14-Jul-21			 										
anplanting Wor	rks of Tree T4			100%		15-Jan-22	24-Nov-22	15-Jan-22 A	24-Nov-22 A			15-Jan-22	24-Nov-22				11		7							
	Subjetting of Tree Transplant	4	0	100%	100%	15-Jan-22	20-Jan-22	15-Jan-22 A	20-Jan-22 A			15-Jan-22	28-Feb-22				1144						1			
	Root prunning and Preparation Works for Transplanting	123	2	100%	100%	04-Apr-22	17-Sep-22	64-Apr-22 A	17-Sep-22 A			01-Apr-22	17-Sep-22				TIT				TT			1		
	Transplanting works	2	1	100%	100%	22-Nov-22	24-Nov-22	22-Nov-22 A	24-Nav-22 A			22-Nov-22	24-Nov-22				Ш			1						
	onitoring System (Remaining Works)			B7%		27-Nov-20		27-Nov-20 A		28-Feb-23	30-Jun-28	27-Nov-20	07-Feb-23	0						-						
	Complete all trial installation of monitoring devices and sensors and submitten installation Report for trial inst.	205		100%	100%	27-Nov-20	24-Jun-21	27-Nov-20 A	24-Jun-21 A			27-Nov-20	10-Jun-21							Ē.						
	Preparation and submission of Draft Transmission Specification	196	0	100%	100%	27-Nov-20	10-Jun-21	27-Nov-20 A	10-Jun-21 A			27-Nov-20	10-Jun-21													
	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		11-Jun-21	28-Sep-22	0		-				5.0						
	Completion testing of data transmission and compatability to DSD's Data Information System	29	1	0%	0%			01-Jun-23	30-Jur-23	01-Jun-23	30-Jun-23	09-Jan-23	07-Feb-23	0					∖ "" '	- E						
	ation of Rock Socket Longth for Socketed Steel H-Piles for PTF, SCB, SDB & SHT	72	0	100%		31-May-21	16-Aug-21	31-May-21 A	16-ALg-21 A			30-May-21	18-Aug-21						N	5						
	Structural Design Review After Completion of Predrilling Works (Phase 1)	70	0	100%	100% 100%	31-May-21	09-Aug-21	31-May-21 A	09-ALg-21 A			30-May-21	08-Aug-21						1	i.						
et Up of Tower C	ICE Checking and issuance of ICE certificate	1	U	DN DN	100%	10-Aug-21	16-Aug-21	10-Aug-21 A 04-Mar-23	16-ALG-21 A	04-Mar-23	70.1	10-Aug-21	15-Aug-21	10			#448	de de d					an an air an a	÷		
	Crane Subisting of Tower Crane Erection	35	0	0%	0%			04-Mar-23*		04-Mar-23				0	•					Č.						
	Besign and Approval of Tower Crane	28	0	0%	0%			22-Ap+23	21-401-23 19-May-23					20					-9	1 8						
	Pile Foundation Construction of Tower Crane	34	0	0%	0%			20-Vay-23	30-Jun-23	09-Jun-23				16					- F							
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	MBR Treatment Facilities			57.21%		01-Apr-21		01-Apr-21.8	02-Aug-24	28-Feb-23		01-Apr-21	19-Apr-24	0		··· •	111	│~~			-	++		+-+		
	loation and Delivery of Major E&M Equipment			58.57%		12-Jul-21		12-Jul-21.A	02-May-24	17-Mar-23	19-blay-24	28-Aug-21	29-Out-22	17			++++++	tt	-+++		+++					
DC.SS.1075a	Tendering of Subcontrator	45	-0	100%	100%	12-Jul-21	26-Aug-21	12-Jul-21.A	26-ALg-21 A			28-Aug-21	14-Oct-21			-										
DC.S3.10755 E	Equipment Submission and Approval	591	0	84.77%	70%	15-Oct-21		15-Oct-21 A	28-Mag-23*	20-Mar-23	17-Jun-23	15-Oci-21	29-Oci-22	20			-	÷		4 1			1			
Procurement				0.65%		01-Nov-22		01-Nov-22 A		28-Jul-23				146						-			1			
DC.S3.1080a10 M	Monibrane Modules	1	0	100%	100%	01-Nov-22	01-Nov-22	01-Nov-22 A	01-Nov-22 A						•		111		1 N	l.				1.1.1		
DC.S3.1080a11 F	Persidoks	1	0	0%	0%			01-May-23*	01-May-23	27-Asg-23	27-Aug-23			118	•				L .				÷			
DC.S3.1080e12 S	Submersible Mixers	1	0	100%	100%	02-Jan-23	02-Jan-23	02-Jan-23 A	02-Jan-23 A						•					200						
	Aeration Biowers & Air Scouring Blowers	1	0	0%	0%			01-Mar-23*	01-Har-23	27-ALg-23	27-Aug-23			179	•											
	Fine Butble Diffuser	1	0	0%	0%			01-May-23*		27-At.g-23				118	•		UUU	J. J. I	J. L					1.1		
DC.S3.1080e15 F		1	0	D%	D%			01-May-23*		27-At.g-23				118	•		TIT		11121							
DC.S3.1080u16		1	0	D%	0%			01-May-23*		27-Aug-23				118	•					1.10						
DC.S3.1080a17 F		1	0	0%	0%			01-May-23*		27-Asg-23				118	•			4	- III - III							
DC.S3.1080a18		1	0	0%	0%			01-Apr-23*	01-Apr-23		28-Jul-23			118	•					100						
	Soun Skimming Devices	1	0	0%	0%			01-May-23*	01-May-23		28-Jul-23			88	•									1		
	Citric Acid Storage & Dosing System	1	0	0%	0%			01-May-23*	01-blay-23		28-Jul-23			88	•					2						
	Socium Hydochlorite Storage & Dosing System	1	0	0%	0%			01-May-23*	01-blay-23		28-Jul-23			88	*									1.1		
DC.S3.1080a22 L		1	0	0%	0%			01-May-23*	01-May-23		20-Sep-23			142	•											
	Duplex Stain ess Steel Air Scouring System	1	0	D%-	0%			01-May-23*	01-May-23		27-Aug-23			118	-					1						
	SS315 Pipework (For Art)	1	0	0%	0%			01-Jun-23*	01-Jur-23	19-Nov-23	19-Nov-23			171	.		1440	4-4-4	-l-l-		-			4		
	Fibre Gasket for Air Pipework	1	0	0%	0% 0%			01-May-23* 01-May-23*	01-May-23		20-0cl-23 20-0cl-23			172				111								
DC.S3.1080a26 U DC.S3.1080a27 U	DI Fipework (For Severage)	1	0	0%	0%			01-May-23* 01-May-23*	01-May-23 01-May-23		20-0dl-23 20-0dl-23			172				, i I		E.				11		
	uPvC Pipevork uPvC Pipevork (Double Containment)	1	0	0%	0%			01-May-23* 01-May-23*	01-May-23 01-May-23		20-0dt-23 20-0dt-23			172												
	Valves for Process Picework (For Sewage and AP)	1	0	0%	0%		-	01-Apr-23*			20-00-23 28-10-23			172	•											
DC.S3.1080829 /		1	0	0%	0%			01-Mar-23*		28-30-23 27-Aug-23				110	•		HHH	1-1-1			++++			+-+		
	Accusion nor varves Decidori sation System Unit 2	1	0	0%	0%			01-Mag-23 01-Jun-23*		27-HLg-23 26-Sep-23				110				1	11	1 8				1		
		-					1									1 13133	11110	B		Date		Revisi		Chec.	A_	pro
	ary Baseline	DC/201	19/07 O	UTLYING	ISLAND	S SEWER	AGE STA	GE2 - UPG	RADING (OF CHEU	NG CHA	U SEWAG	E TREAT	MENT A	ND DIS	SPOSAL I	FACILI	TIES			-		1011			10
- Prima	30-Nov-22 Rev 20 III C												ICL													
	ai work																									
Actua							REVISE	DPROGR			2 (28 Fe	bruary 2	:023)						31-L	Dec-22		IV. 21		JL	CL	_
Actua Rem	al Work laining Work lai Remaining Work						REVISE	DPROGR		4 of 13)	2 (28 Fe	bruary 2	:023)							Dec-22 Feb-23	Rev			JL JL	CL CL	_



ID Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed X	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Late Start Late Finish	Early Start (Rev 20)	. Early Finish Total	Amended	20	21	2022		2023		2024	2025		2026
DC.S3.1080s32 LV Switchzoard and Motor Control Panels	4	0	0%	Workdone %			01-Jul-23*	01-Jul-23	26-0:t-23 26-0:t-23	20)	(Rev. 20) Float 117	Amended Activities (2)	02	03 04	21 02 0	13 04 7	Q1 02 03 Q4	Q1 Q	Q3 Q4	01 02 03	Q4 Q1 Q2	g Q3 Q4
DC.S3.1080432 IV SWEDGER IND KODY COND. PUNKS	1	0	0%	0%			01-Jun-23*	01-Jur-23	25-Dec-23 25-Dec-23		207					1						
DC S3.1080x34 UPS with Isolation Transformer	1	0	0%	0%			01-Jun-23*		26-Sep-23 26-Sep-23		117											
DC S3 1080405 PI C Parel	1	0	DN-	03			01-Auc-23*		26-Sep-23 26-Sep-23		56											
DC.S3.1380436 Instrumentation	1	0	DN-	0%			01-Auc-23*		26-Sep-23 26-Sep-23		56											
Febrication			24,34%	0.4	01-Nov-22		01-Nov-22 A	03-Har-24	17-Mar-23 20-Mar-24		17					-		+				
DC.S3.1380510 Membrane Modules	459	0	24.34%	24%	01-Nov-22		01-Nov-22 A	03-Mar-24*	17-Mar-23 20-Mar-24		17	•				- Yala						
DC.S3.1080e11 Penstocks	135	0	0%	0%			02-May-23*		28-Aug-23 09-Jan-24		118	•										
DC S3.1080b12 Submersible Mixers	257	0	22.18%	22%	02-Jan-23		02-Jan-23 A		24-Jun-23 09-Jan-24		116	•				4						
DC.S3.1080b13 Aeration Blowers & Air Scouring Blowers	135	0	0%	0%			02-May-23*		28-Aug-23 09-Jan-24		118	•				1	-					
DC.S3.1080b14 Fine Butble Diffuser	135	0	0%	0%			02-May-23*		28-AL0-23 09-Jan-24		118	•										
DC.S3.1080x15 Permete Pumps	125	0	DN-	0%			02-May-23*		28-Aug-23 09-Jan-24		118						H					
DC.S3.1080s16 Drain Pumps	125	0	DN-	0%			02-May-23*		28-Aug-23 09-Jan-24		118									1.1.1		
DC.S3.1380s17 RAS Pumps	125	0	DN.	0%			02-Mar-23'		28-Aug-23 09-Jan-24		118					a di a ta						
DC.S3.1080b18 WAS Pumps	185	0	0%	0%			02-Aor-23*		29-Jul-23 09-Jan-24		118	•										
DC.S3.1080b19 Soun Skimming Devices	185	0	0%	0%			02-May-23*	13-Oct-23			88	•										
DC.S3.1080x20 Citr c Acid Storage & Dosing System	185	a	0%	0%			02-May-23*		29-Jul-23 09-Jan-24		88	•				8						
DC S3.1080b21 Socium Headhlarte Starse & Dosing System	185	0	0%	0%			02-May-23*	13-Oct-23			88	•				1						
DC.S3.1080x22 Lifting Applance	155	0	D%	0%			02-May-23*		21-Sep-23 03-Mar-24		142					and in the				-		
DC.S3.1080u23 Duplex Stan ess Steel Air Scouring System	125	0	DN-	0%			02-May-23*		28-Aug-23 09-Jan-24		118					6				1.1.1		
DC.S3.1080024 SS31E Prevork (For Art	125	0	DS-	0%			02-May-25 02-Jun-23*		20-Nov-23 03-Mar-24		171					8 I.						
DC.S3.1080025 Fbre Gastet for An Pipework	125	0	DS-	0%			02-Mar-23*	13-Sep-23			171					5 I.						
	120	0		0%		-										1 I						
DC.S3/108026 DI Fipework (For Sevage) DC.S3/108027 uPVC Pinoverk	125	0	0% 0%	0%			02-May-23* 02-Mare-23*	13-Sep-23 13-Sep-23			172	.				- 8 I -						
DC.S3.1080s27 uPVC Pipework DC.S3.1080s28 uPVC Pipework (Double Containment)	135	0	0%	0%			02-May-23* 02-May-23*	13-Sep-23 13-Sep-23			172	.			11 I.	3 I.		11		11 1 1		
	135	0		0%							172											
DC S3.1080x29 Valves for Process Pipework (For Sewage and Alr)	185	0	0%	0%			02-Apr-23* 03-May-23*	13-Sep-23			118	•			. II. I.	§				11 1 1		
DC S3.1080b30 Accustor for Velves	135	0	0%	0%				14-Sep-23			117					8 I	-			111		
DC S3 1080t31 Decidor System Unit 2	105		D%.	0%			02-Jun-23*		27-Sep-23 09-Jan-24		117	H			4			44		- Hand and A		
DC.S3.108032 LV Switchcoard and Motor Control Panels		0	DN-				03-Jul-23		27-Oct-23 09-Jan-24		116											
DC.S3.1080x33 VSD	32	0	0%	0%			02-Jun-23*		26-Duc-23 24-Jan-24											1 1 1		
DC.SJ.1080c34 UPS with Isolation Transformer	105	g	0%	0%			02-Jun-23*		27-Sep-23 09-Jan-24		117	•										
DC.S3.1080c05 PLC Panel	105	0	0%	0%			02-Aug-23*		27-Sep-23 09-Jan-24		56											
DC.S3.1080x36 Instrumentation	105	0	0%	0%			02-Aug-23*		27-Sep-23 09-Jan-24		56	•					-					
Ddkery			0%				02-Jul-23	02-May-24	10-Jan-24 19-May-24		17											
DC.S3.1080c10 Membrane Modules	60	0	0%	0%			04-Mar-24	02-May-24			17	•				1						
DC.S3.1080x11 Perstocks	30	0	0%	0%			14-Sep-23		10-Jan-24 08-Feb-24		118	•					12					
DC.S3.1080c12 Submersible Mixers	32	0	0%	0%			16-Sep-23	15-Oct-23			116	*				- S -	1			1.1.1		
DC.S3.1080c13 Aeration Blowers & Air Scouring Blowers	30	0	D%	0%			14-Sep-23	13-OcI-23	10-Jan-24 08-Feb-24		118	•					1					
DC.S3.1080c14 Fine Bubble Diffusor	30	0	0%	0%			14-Sep-23	13-OcI-23	10-Jan-24 08-Feb-24		118	•										
DC.S3.1080c15 Permeale Pumps	30	0	0%	0%			14-Sep-23	13-0cl-23	10-Jan-24 08-Feb-24		118	•					19					
DC.S3.1080c16 Drain Pumps	30	0	0%	0%			14-Sep-23	13-OcI-23	10-Jan-24 08-Feb-24		118	•					19			1 1 1		
DC.S3.1080e17 RAS Pumps	30	0	0%	0%			14-Sep-23	13-Oct-23	10-Jan-24 08-Feb-24		118	•				5	119					
DC.S3.1080c18 WAS Pumps	30	0	0%	0%			14-Sep-23	13-Oct-23	10-Jan-24 08-Feb-24		118	•					11					
DC.S3.1080c19 Soun Skimming Devices	30	0	0%	0%			14-Oct-23	12-Nov-23	10-Jan-24 08-Feb-24		88	· .										
DC.S3.1080c20 Citric Acid Storage & Dosing System	30	0	DS-	0%			14-Oct-23	12-Nov-23	10-Jan-24 08-Feb-24		88						1 F.					
DC S3.1080c21 Socium Hypochlorite Storage & Dosing System	30	0	DS-	0%			14-0ct-23	12-Nov-23	10-Jan-24 08-Feb-24		88					6	1.					
DC S3.1080c22 Lifting Applance	30	0	0%	0%			14-0cl-23	12-Nov-23	04-Mar-24 02-Apr-24		142	•					¥e	4.11				
DC S3 1080c23 Dupter: Stain ces: Stoct Air Scouring System	30	0	0%	0%			14-Sep-23	13-OcI-23	10-Jan-24 08-Feb-24		118	•										
DC.S3.1080c24 SS31E Pipework (For Ar)	30	0	0%	0%			15-Sep-23	14-Oct-23	04-Mar-24 02-Apr-24		171	•										
DC.S3.1080c25 Fore Gasket for Air Pipevork	30	0	0%	0%			14-Sep-23	13-Oct-23	04-Mar-24 02-Apr-24		172	•					- 					
DC.S3.1080c26 DI Pipework (For Sevrage)	30	0	0%	0%			14-Sep-23	13-Oct-23	04-Mar-24 02-Apr-24		172	•				1	-					
DC.S3.1080c27 uPVC Ppevork	30	0	0%	03,			14-Sep-23	13-Oct-23	04-Mar-24 02-Apr-24		172	•				8	-			1 1 1		
DC.S3.1080c28 uPVC Pipevork (Double Containment)	32	0	DS-	03.		1	14-Sep-23		04-Mar-24 02-Apr-24		172	· ·				§	 -			11 1 1		
DC S3 1080:20 Valves for Process Pipework (For Servage and Air)	32	0	DS-	0%			14-Sep-23	13-Oci-23	10-Jan-24 08-Feb-24		118	· -	- Hit		11			# 11		· f= † = †		
DC.S3.1080c30 Actuator for Valves	32	0	DS-	0%			15-Sep-23	14-Oc1-23			117	•				5 I	- •					
DC S3.1080c31 Deodorisation System Unit 2	30	0	0%	0%			15-Sep-23	14-Ocl-23			117	· ·				8 I	- -					
DC.S3.1080c32 LV Switchcoard and Notor Control Panels	30	0	0%	0%			16-Sep-23	15-Oct-23			116	·				1 I.	-					
DC 53 1080c33 VSD	15	0	0%	0%			02-Jui-23	16-Jul-23	25-Jan-24 08-Feb-24		207	· ·				3 I						
DC S3.1080c34 UPS with Isolation Transformer	30	0	0%	0%		-	15-Sep-23		10-Jan-24 08-Feb-24		117	•	- 11	HHH	Hi	- j- l-	-			- in in i		
DC S3.1080x36 PLC Parel	32	0	0%	0%		-	15-\\or-23	14-Dec-23			56					5 I.		dl 11				
DC.S3.1080c36 Instrumentation	32	0	D%	0%		-	15-\\or-23		10-Jan-24 08-Feb-24		56											
Chill & Structural Works			65.54%		01-Apr-21	-	01-Apr-21 A		28-Feb-23 29-Feb-24	01-Apr-21	30-April-23 0		+			<u> </u>	╉╧╼╤╋┙	-##				
DC.S3.108Ca Site 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	20130-20 20-00-24	31-May-21	03-Jul-21		L.			8 I						
DC.SS.1092b Subjecting of Pling Works	45	0	100%	100%	01-Apr-21	29-May-21	01-Apr-21 A	29-May-21 A		01-Apr-21	29-May-21		- #	THE				##				
DC.S3.109Cc Material Testing for Piling Works	29	0	100%	100%	30-Apr-21	29 May 21	30-Apr-21 A	29-May-21 A		09-May-21	07-Jun-21											
DC.S3.10900 Mobilization and Setting up of 2nd Set Pling Pig and Associated Equipment	29	0	100%		24-Sep-21	24-Sep-21	24-Sep-21 A	29-May-21 A 24-Sep-21 A		24-Feb-22	04-Mar-22				11	§						
DC.53.1000 Wolmcarch and Setting op of the Set Philing reg on Disescrates Equipment DC.53.1100 Philing works for pre-bored socket H-piles (67 nos, dis610)	90	5	100%	100%	07-Oct-21	31-Jan-22	07-0ct-21 A	31-Jan-22 A		07-Oct-21	3'-Jan-22					\$ I.						
	95	3	100%				31-Jan-22 A			28-Feb-22	3'-Jan-22 11-May-22				<u> </u>	8 I.				1111	÷.	
DC.S3.1110 Design and File Loading Test of Compression File DC.S3.1110e Pile Loading Test of Compression File	54	2	100%	100%	31-Jan-22 26-Sec-22	12-Apr-22 29-Sep-22	31-Jan-22 A 26-Sep-22 A	12-Apr-22 A 29-Sto-22 A		28-Feb-22 08-Sep-22	11-Misy-22 21-Sep-22							# #				
																1						
DC.53.1111 Proof Drill	3	1	100%	100%	19-Mar-22	24-Ma22	19-Mar-22 A	24-Mar-22 A		17-Mar-22	24-Mar-22				<u>81</u>							
	DOUDON	0/07 0			CEWED	ACE OTA	052 1000				OF TREATMENT	AND DICO	<u> </u>	L EAC			Date		Revisio	n Ch	iec A	Approved
Drimon (Pageline			UTLYING	ISLANDS	SEWER	AGESTA	uez UPG	KADING (OF CHEUNG CH	AU SEWAI	GE TREATMENT	AND DISP	USA	L FACI	LITES		I	+-				
Primary Baseline	DC/201	3101 0	•••••														30-Nov-22					
Primary Baseline Actual Work	DC/201	501 0														1	30-Nov-22		v. 20	JL 	CL	
Actual Work	DC/201	5101 0						AMME -	REV. 22 (28 F								31-Dec-22	Re	v. 21		CL	
Actual Work Remaining Work	DC/201	501 0						AMME -										Re		JL JL JL	CL	
Actual Work	DC/201	501 0						AMME -	REV. 22 (28 F								31-Dec-22	Re	v. 21	JL JL JL	CL	

Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 29th EM&A Report – December 2023



	cdbity Name	Orl. Dur (d)	TRA (d)	Time Elapsed X	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. 20)	Early Finish	Total A Float A	mended	202	1	2022	_	2023		2024 12 Q3 Q4 Q1	2025	2026
0C.S3.1140 P	te-boring for Installation of Sheet Piles (Total 372nos., 3rigs)	184	0	100%	Workdone % 100%	31-Mar-22	24-Nov-22	31-Mar-22 A	24-Nov-22 A			20) 31-Mar-22	(Rav. 20) 24-Nov-22	FIGHT A	contres	<u>un 02</u>	U3 G4 (a 02 03 0		2 43 44 61	uz 03 04	un 02 03
	nstallation of Sheet Piles	92	1	100%	100%	18-Aug-22	06-Dec-22	16-Aug-22 A	06-Dec-22 A			16-Aug-22	06-Dec-22					-						
	ixesvation to +3.0mPD	10	0	100%	100%	23-Nov-22	05-Dec-22	23-Nov-22 A	05-Dec-22 A			23-Nov-22	05-Dec-22						4					
C.SS.1160b Ir	nstallation of wailing and shull 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				nntt	IT T	19 H		111		CT T	
C.S3.1163c E	Excevation to +0.5mPD	29	0	100%	100%	31-Dec-22	06-Feb-23	31-Dec-22 A	06-Fab-23 A			31-Dec-22	12-Jan-23						Ц.					
C.S3.1160d Ir	statlation of waiting and shull for ELS Layer 2	15	0	100%	100%	30-Jan-23	18-Feb-23	30-Jan-23 A	18-Fab-23 A			13-Jan-23	0'-Feb-23						- H				(i i -	
0C.S3.1160e E	ixcavalion lo -3 8mPD	17	0	41.15%	41%	20-Feb-23		20-Feb-23 A	10-Har-23	28-Feb-23	10-Mar-23	02-Feb-23	18-Feb-23	0	•				- 1 2	A				
C.83.1180f Ir	nstallation of wailing and strut for ELS Layer 3	15	0	0%	0%			11-Mar-23	28-Har-23	11-Mar-23	28-Mor-23	20-Feb-23	04-Mar-23	0	•				- Y	•				
C.S3.1160g E	Excevation to -5.0mPD	10	0	0%	0%			29-Mar-23	13-Apt-23	29-Mar-23	13-Apr-23	06-Mar-23	18-Mar-23	0	•					, • (
	estallation of wailing and strut for ELS Layer 4	15	0	0%	0%			14-Ap=23		14-Apr-23		20-Mar-23	01-Apr-23	0	•				≥ 11	-			6 E E -	
C.S3.1160i E	excevation to -7.9mPD and concrete blinding layer	15	0	0%	03,			03-Vay-23	19-May-23	03-May-23		03-Apr-23	13-Apr-23	0	•				11	1				
abstructure Constructi	kn (Water Tanks, Pump Room and Blower Room)			DN-				20-Vay-23		20-May-23				0					11		7		1 I I -	
	Construction of File Cap (Grid 3-4)(B30m3, 4 pour)	41	0	DN-	0%			20-Vey-23		20-May-23				0			ЦШЦ	U. J.					i. i. i	
	Removal of 4th Walling & Struts	7	0	D%	0%			11-Jul-23		11-Jul-23	18-Jul-23			0	•					1 7				
	10 Wall Construction from -5.0mPD to -3.8mPD (150m3: 1 pour)	24	0	0%	0%			19-Jui-23		19-Jul-23	15-Aug-23			0	•									
	Removal of Srd Wailing & Struts	7	0	0%	0%			18-Aug-23	23-Aug-23					0	:					- -				
	Construction of Pile Cap (Grid 1-3) & RC Wall (Grid 3-4) from -3.8mPD to +0.5mPD(1700m3, 8 pour)	50	0	0%	0%			08-Jul-23	04-Sep-23		04-Sep-23			0	•					7				
	Removal of 2nd Walling & Struts	9	0	0%	0%			05-Sep-23	14-Sep-23		14-Sep-23			0	•									
	RC Well Construction from +0.5mPD to +3.0mPD (800m3, 4 pour)	24	0	D%,	0%			15-Sep-23	14-Oct-23	15-Sep-23	14-0ct-23			0	^									
	Removel of 1st Viailing & Strute	9	0	DN-	0%			16-Oct-23		16-Oct-23	26-0ct-23			0	- î				11	1 7				
	RC Well and Roor Slab Construction from +3.6mPD to +4.66mPD (530m3, 3 pour)	29	0	DN-	0%			27-0ct-23	29-Nov-23		29-Nov-23			0	*			01 I						
	ion (Switchroson, Iniet Wiel and DOU Room)			D%-				03-0ct-23		05-Oct-23	11-Jan-24			0				11 i	± 1					
	istallation of Sheet Files Well	15	0	0%	0%			03-0cl-23		05-001-23				2	• 1				11	1				
.\$3.1180a10 E		17	0	0%	0%			27-0ct-23	15-Nov-23					0	•					1 1				
	Construction of Pile Cap (280m3, 2 pour)	21	0	0%	0%			16-Nor-23		16-Nov-23				0	•									
\$3.1180a30 C	Construction of Wall and Ground Slab (150m3, 1 pour)	18	0	0%	0%			11-Dec-23	30-Dec-23	11-Dec-23	30-Dec-23			0	•				11					
S3.1180#0 E	ackfiling and Removal of ELS	9	0	0%	0%			02-Jan-24	11-Jar-24	02-Jsn-24				0	•				11		44			
structural Constru	ration (Sind B - F)			0%				30-Nor-23	08-Fet-24	30-Nov-23	08-Feb-24			0										
S3.1190a V	Vall and Column Construction from +4.65mPD to =10.25mPD (290m3, 2 pour)	47	0	DN-	0%			30-\\o+-23	26-Jar-24	30-Nov-23	26-Jan-24			0	*		TITT			-	#			
S3.1190a10 V	Vall, Column and Roof Stab Construction from +10.25mPD to +13.55mPD (900m3, 4 pour)	25	0	0%	0%			11-Jan-24	08-Feb-24	11-Jan-24	28-Feb-24			0	•						- 18			
retructural Conetru	ction (Grid A-R)			0%				13-Jan-24	29-Feb-24	13-Jan-24	29-Feb-24			0							-			
\$3.11906 V	(all, Column and Stab Construction from +4.65mPD to +8.95mPD (150m3, 1 pour)	19	0	0%	0%			13-Jan-24	03-Feb-24	13-Jan-24	03-Feb-24			0	•									
\$3.1190b10 V	(all, Column and Reef Construction from +8.95mPD to +13.55mPD (210m3, 1 pour)	19	0	0%	0%			05-Feb-24	29-Feb-24	05-Feb-24	29-Feb-24			0	•				411		-			
gn Submission				91.03%		01-Jun-21		01-Jun-21 A	30-Apr-23	04-Apr-23	04-Jun-23	08-Jun-21	27-Feb-23	35						-				
S3.1220 U	Ipdating of Foundation and Pile Cap Design based on Technical Proposal	97	0	100%	100%	01-Jun-21	06-Sep-21	01-Jun-21 A	06-Sep-21 A			08-Jun-21	13-Sep-21			ي الم								
.S3.1230 C	Wher substructures and Superstructs Design	387	0	100%	100%	08-Jan-22	28-Feb-23	09-Jan-22 A	28-Feb-23 A			08-Jan-22	29-Dec-22				1.14		ني المحجب				1 I I -	
	vchilecture & Landscaping Desgn	578	0	88.27%	70%	30-Sep-21		30-Sep-21 A	30-Apr-23	04-Apr-23	04-Jun-23	30-Sep-21	27-Feb-23	35			-		<u> </u>					
M Works				0%				09-Feb-24	02-Aug-24	09-Feb-24	02-Aug-24	31-OcH23	19-Apr-24	0					- E 🗗			- i i i		
.83.1210 E	8.9. Mechanical Installation (MBR: Air Blover DO system, Pump. etc.)	80	10	0%	0%			05-Feb-24	03-Jur-24	09-Feb-24	03-Jun-24	31-OcI-23	19-Feb-24	0		11	1111		1			• 1		
	Jectrical Installation (Cable, Instrument, PLC Planet, LVSB, etc)	80	10	0%	0%			05-Feb-24		09-Feb-24	03-Jun-24			9										
	istallation of BS Equipment	45	5	0%	0%			13-Mar-24	16-May-24		03-Jun-24			15			11111							
\$3.1210c Ir	restallation of Lifting Applicance	45	5	0%	0%			13-Mar-24	16-May-24	03-Apr-24	03-Jun-24			15										
\$3.1220a S	(CADA System Site Acceptance Test (Prase 1 MBR Construction)	30	0	0%	03,			14-Apr-24	13-May-24	14-May-24	12-Jun-24	30-Nov-23	29-Dec-23	30						-	4			
	CADA System Commissioning Test (Phase 1 MBR Construction)	30	0	0%	0%			13-Jun-24		13-Jin-24		28-Jan-24	27-Feb-24	0				11						
	eeding of MBR System	30	0	0%	0%			04-Jun-24	04-Jul-24	04-Jun-24	03-Jul-24	20-Feb-24	19-Apr-24	0					- N					
.53.1230c S	ystem Commissioning Test	30	0	0%	0%			04-Jul-24	02-Aug-24	04-Jul-24	02-Aug-24			0										
	il Works			0%				09-Feb-24	29-Acr-24	16-Mar-24	03-Jun-24	31-Ocl-23	01-Feb-24	28					11/					
S3.1200 A	vchiloclural Works (internal)	60	2	0%	0%			05-Fab-24	29-401-24	16-Mar-24	03-Jun-24	31-Ocl-23	0'-Feb-24	28					- V	-				
struction of S	ludge Digestor Building with 3 Sludge Holding Tanks			89.88%		31-May-21		31-May-21-A	29-Xoy-23	12-Mar-23	17-Dec-23	31-May-21	11-Nov-23	18		1 1 1 1	1 111 1		÷ł					
	ation and Delivery of Major E&M Equipment			75.83%		12-Jul-21		12-Jul-21 A	05-Sep-23	12-Mar-23	01-00-23	12-Jul-21	18-Apr-23	26					÷+	-				
	entering 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						111					
3.1235b E	igupment Submission and Approval	435	0	92,65%	85%	10-Aug-21		10-Aug-21 A	13-Apr-23	12-Mar-23	25-Apr-23	10-Aug-21	18-Oct-22	12		- 4			<u> </u>					
arement				100%		31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21						N					
S3.1240a1 S	Russe Digester Feed Pump and Digested Studge Pump	1	0	100%	100%		31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				自動力	h	N		1			
	Rutge Digester Air Bitwer	1	0	100%	100%		31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				14.00	ü.Lj	11					
	ir Diffusor for Sludge Digester	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-107-21	10-Nov-21						11					
	automensible 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			11 I	11					
	leaderzation Unit 4	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21		— <u> </u>			01 1	11					
	V Switchcoands, 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					H-1-						
	ariable Speed Drive (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					
	ande opens one room.	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21		——————————————————————————————————————		1001						/ I I -	
	ioe Work/Valve	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				1001		11					
	Internet	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				11216	01 F	11					
	ifing Applance	1	0	100%			31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				1416	1-1-						
icetion				67.35%		01-Feb-22		01-Feb-22 A	05-Sep-23	23-Mar-23	01-0d-23	01-Feb-22	15-Jan-23	26			119716	81 	÷+				a i 1 -	
\$3.1240b1 \$	lurge 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			01-Feb-22	28-Sep-22				10114		- 1					
	Rusge orgester i deu Pomp and orgestes dauge - ump	189	0	100%	100%	01-Feb-22	20-Jul-22	01-Feb-22 A	20-349-22 A			31-Jul-22	15-Jan-23				1000							
	viciger ungesten vin technen vir Diffuser for Sludge Digester	240	0	100%	100%	01-Feb-22	28-Sep-22	01-Feb-22 A	28-Sec-22 A		-	01-Feb-22	28-Sep-22					-	🖃 🗖 '					
	u Dinister in Subge Digetal ubmensible Mixer for Digetal Sludge Holding Tank	154	0	100%	100%	01-Feb-22	15-Jul-22	01-Feb-22 A	15-Jul-22 A		-	01-Feb-22	14-Jul-22								-			
	Jubrensbe Autor for Ligerand Sludge Holding Lank Jeodolization Unit 4	437	0	89.7%	90%	01-Feb-22 01-Feb-22	13500122	01-Feb-22 A		58.4nn.22	20-May-23		29-Dec-22	37			1010							
53.124033 L	ACCORDENDED OFFICE	427	u	ano	80.4	01-M0-22		01-P80-22 A	15-401-23	uo-epi-23	20-689-23	01-280-22	234090-22	21			1000							1 1
	ary Baseline	DC/201				SEWED	AGE STA	GE2 - UPG					SE TREAT					ITIES	T	Date		Revision	Chec	. Appro
Prima		00/201	1000 U	GILINGI	ULAND3									MENT A	110 013	1 UJA	FAGI		-	30-Nov-22	Re	v. 20	JL	CL
							REVISEI) PROGR	AMME - I	REV 2	2 (28 Ed	hruary 3	2023\											CL
Prima Actua	al Work						IL FIOL													21 Dec 22		. 91		
Actua												.bruury i	2020)							31-Dec-22		IV. 21	JL	
Actua	aining Work									6 of 13)		.or dur y 1	20237						ŀ	31-Dec-22 28-Feb-23		iv. 21 iv. 22	JL	CL
Actua Rema												.ordury .	2023)						-				JL JL	



ity ID	Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Lile Start	Late Finish	Early Start (Rev.	Early Finish	Iotal Amended	2021 2022 2023 2024 2025 2026
DC.S3.124064	LV Switchbosinds, Motor Control Centers and Associated Components	5'2	0	76.58%	Workdone % 76%	01-Eeb-22		01-Eeb-22 A	27-Jur-23		12-Aug-23	20) 01-Feb-22		loat Activities	
	Variable Speed Drive (VSD)	190	0	100%	100%	01-Feb-22	30-Jul-22	01-Feb-22 A	30-Jul-22 A	10%priza	129909-23	01-Feb-22	30-Jul-22	40	
	Cable	240	0	100%	100%	01-Feb-22	26-Sep-22	01-Feb-22 A	28-Sto-22.4			01-Feb-22	28-Sep-22		
40.00.121000	Pipe Work/Valve	351	0	100%	100%	01-Feb-22	26-Jan-23	01-Feb-22 A	26-Jan-23 A	-		01-Feb-22	14-Dec-22		╶╫┍╺╠┝┝╠╠╬ <mark>╬╔╓╧╓╧╓╧╓</mark> ┢ <mark>╞</mark> ┽╡╸╏┞ <mark>╟</mark> ┍╠╠╧┊╘┢╖╸┝╎╸╡╸╫╺╖╸╸┝╶┥╸
DC.S3.124058	Instrument	572	0	58.52%	68%	01-Feb-22		01-Fab-22 A	28-Aug-23	23-Mar-23	18-Sep-23	01-Feb-22	14-Dec-22	23 .	
DC.S3.124059	Lifing Appliance	592	0	67.35%	67%	01-Feb-22		01-Feb-22 A		26-Mar-23		01-Fe0-22		26 .	
Delivery				69.12%		24-May-22		24-May-22 A	05-Sep-23	21-May-23	01-0di-23	24-May-22	18-Apr-23	26	
Civil & Structural V	Works			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	
DC.83.1250	Site Preparation Works for Piling (including nemoval of existing Studge Tank)	38	4	100%	100%	31-May-21	17-Jul-21	31-May-21 A	17-Jul-21 A			31-May-21	17-Jul-21		
DC.\$3.1280a	Subjetting of Supply and Installation of FLS	28	0	100%	100%	01-Aug-21	29-Aug-21	01-Aug-21 A	29-ALG-21 A			01-Aag-21	28-Aug-21		
DC.S3.1280a10	Preiminary File and File Load Test	45	3	100%	100%	12-Jul-21	06-Sep-21	12-Jul-21 A	06-Sep-21 A			03-Dec-21	04-Feb-22		
DC.S3.1280b	Pling works for pre-borec socket H-pies (37 ros. dis610, fiterm)	79	4	100%	100%	23-Jul-21	01-Nov-21	23-Jul-21.A	01-Nov-21 A			15-Dec-21	28-Mar-22		
DC.S3.1290a	Pre-boring for installation of sheet piles	122	1	100%	100%	B1-Nov-21	31-Mar-22	01-Nov-21 A	31-Mar-22 A			01-Nov-21	30-Mar-22		
DC.53.1290b	Installation of sheet piles(FSPVL)	25	2	100%	100%	01-Apr-22	10-May-22	01-Apr-22 A	10-May-22 A			01-Apr-22	07-May-22		
DC.83.1300	Excavation for basement of Studge Digestor Building (3425m3 exca, 1 team)	111	2	100%	100%	10-May-22	22-Sep-22	10-May-22 A	22-Sep-22 A			10-May-22	2'-Sep-22		
DC.83.1310a	Subjecting of Rebar Fixing	45	0	100%	100%	25-Nov-21	19-Jan-22	25-Nov-21 A				25-Nov-21	19-Jan-22		
DC.83.1310b	Subjecting of Formworks, Concretor and Miscellaneous Works	45	0	100%	100%	25-Nov-21	19-Jan-22	25-Nov-21 A	19-Jan-22 A 08-Dec-22 A			25-Nov-21	19-Jan-22 08-Dec-22		
DC.83.1310c	Construction of Pile Cap. (Grid 2-4)	20	2	100%	100%	20-Sep-22 09-Deo-22	08-Dec-22	20-Sep-22 A 09-Dep-22 A	08-Dec-22 A 03-Jan-23 A			20-Sep-22 09-Dep-22	08-Dec-22 24-Dec-22		
DC.S3.1310d DC.S3.1310e	Removal of Formwork and Backfilling and Removal of ELS (Layer 3)	23		100%	100%	09-Dec-22	03-Jan-23 01-Eeb-23	09-Dec-22 A 04-1an-23 A	03-Jan-23 A 01-Eeb-23 A			09-Dec-22 27-Dec-22	24-Dec-22 20-Jen-23		
DC.53.13126	Construction of Underground Well (Grid 2-4) (from -1.2mPD to +1.0 mPD) Removal of Formvork and Backfillino and Removal of ELS (Laver 2)	15	0	100%	100%	04-Jan-23 02-Feb-23	18-Feb-23	02-Feb-23 A	18-Feb-23 A			21-Jer-22 21-Jer-23	20-JE1-23 05-Feb-23		
DC.53.1313g	Construction of Underground Wall (Grid 2-4) (from +1.0mPD to +3.1mPD)	22	0	22.73%	31%	20-Feb-23	104-80-20	20-Feb-23 A	18-Har-23	17-Mar-23	06-Apr-23	07-Feb-23	27-Feb-23	15 '	
DC.83.1313g	Removal of Formsonk and Backfilling and Removal of ELS (Layer 1)	6	0	0%	0%	231160-23		20-Mar-23 A	25-Har-23		17-Apr-23	28-Fe0-23		15 *	
DC.83.1310	Construction of ground stab (Grid 2-4) (from +3.1mPD to +4.4mPD, 180m3, 1 pour)	22	0	0%	0%			27-Mar-23	25-401-23		22-Man-23	20-reo-23 15-Mar-23		22 *	
DC.83.1330	Installation of ELS and excervation for pile cap of Studge Holding Tanks (523/r3)	8	0	0%	0%			17-Jul-23	22-Jul-23	20-Apr-23	10-Aug-23	15-Mar-23	20-Mpr-23 2'-Mar-23	16 *	
DC.S3.1340	Construction of RC structure of Studge Holding Tanks (below ground, 210m3, 1 pour)	12	0	0%	0%			24-Jui-23	05-Aug-23		24-Aug-23	22-Mar-23	04-Apr-23	16	
DC.SS.1350	Removal of Formwork and Backfilling to ground level and removal of ELS (Sludge Holding Tank)	6	0	0%	03,		-	07-Aug-23	12-Aug-23		31-Aug-23	0E-Apr-23	19-Apr-23	16 *	
DC.SS.1351	Construction of RC superstructure (Slutge Holding Tark) (\$75m3, 2 pour)	30	0	0%	03,		-	14-Aug-23	16-Sep-23		07-0ct-23	20-Apr-23	25-May-23	16 *	
DC.SS.1360a	Construction of RC Well (Crite 2-4) (from +4.4mPD to +9.15mPD, 199m3, 1 pour)	24	0	D%-	03,			26-Ap23	24-h/ay-23		20-Jun-23			22 *	
DC.53.1360b	Construction of RC Well (Gride 2-4) (from +9.25mPD to +12.3mPD, 50m3, 1 pour)	22	0	0%	0%			25-Vay-23			15-Jul-23			22 *	
DC.83.1380c	Construction of RC Roof Stab (Girde 2-4) (200m), 1 pour)	18	g	0%	0%			19-Jun-23	08-Jul-23	17-Jul-23	03-Aug-23			22 *	
DC.83.1360d	Installation of ELS and excavation for substructures of Studge Digestor Building (Gride 1-2)	8	0	0%	0%			29-Mar-23	11-Apr-23	20-Apr-23	28-Apr-23			15 *	
DC.83.1380e	Construction of RC oile cap. (Grid 1-2) (85m3, 1 pour)	12	0	0%	0%			12-Ap+23	25-Apt-23	23-Apr-23	13-May-23			15 *	
DC.S3.1360f	Construction of RC ground sisb (Gride 1-2) (80m3, 1 pour)	18	0	0%	0%			26-Ap23	15-May-23	15-May-23	02-Jun-23			15 *	
DC.S3.1360g	Backfilling to ground level and removal of ELS (Gride 1-2)	6	0	0%	03,			16-9ay-23	22-h/ay-23	03-Jin-23	09-Jun-23			15 *	
DC.SS.1360h	Construction of RC Wall and Sab (Gride 1-2) (from +4.4mpD to +9.15mpD) (90m3, 1 pour)	2'	0	0%	03,			23-Vay-23	16-Jur-23	10-Jun-23	06-Jul-23			15 *	
DC.SS.1360i	Construction of RC Well (Gride 1-2) (from +9.15mpD to +12.3mpD) (35m3, 1 pour)	17	0	D%-	0%			17-Jun-23			26-Jul-23			15 *	
DC.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 *	
E&M Works				0%				10-Aug-23	29-Nov-23	28-Aug-23	17-Dec-23	26-Jul-23	11-Nov-23	18	
DC.S3.1383a	Installation of Submorsible Hixer. Air Blover. Air Diffuser, Feed Pump, DOU	58	0	0%	0%			10-Aug-23	18-OcI-23	28-Asg-23	03-Nov-23	26-Jul-23	28-Sep-23	15	
DC.S3.1380b	Installation of Cable Containment & Conduit	25	0	0%	0%			10-Aug-23	07-Sep-23			26-Jul-23	23-Aug-23	15	
DC.S3.1380c	Installation of BS Equipment, Cable, Instrument, PLC Panel	43	0	0%	0%			25-Aug-23	18-Oct-23		03-Nov-23	10-Aug-23	28-Sep-23	15	
	Installation of Lifting Applicance	25	0	0%	03,			02-Sep-23	26-Sep-23		03-Nov-23			38 *	
DC.S3.1380d	SAT of Equipment	7	0	0%	03,			17-0ct-23	25-Oct-23	04-Nov-23	11-Nov-23	29-Sep-23	12-0ct-23	15	
DC.S3.1380d10 DC.S3.1390a	Seeding for studge digestion system	14	0	DS.	0%			17-0ct-23	30-Oc1-23 08-Oc1-23	04-Nov-23 19-Oct-23	17-Nov-23	07.1 00	00.0 00	18 -	
DC.53.1390a	SCADA System Site Acceptance Test (Prese 1 Studge Digestor Building Construction)	32	0	0%	0%			09-Sep-23 09-Oct-23	05-00-23	19-00t-23	17-Nov-23 17-Dec-23	25-Aug-23 24-Sco-23	ne cop ce	40	
DC.S3.13906 DC.S3.14006	SCADA System Commissioning Test (Phase 1 Sudge Digestor Building Construction) System Commissioning Test	30	0	0%	0%			31-00-23	29-Nov-23	18-Nov-23 18-Nov-23	17-Dec-23	24-Sep-23 13-Oci-23	23-001-23 11-Nov-23	18	
Internal Architects		32	0	0%	0.0			18-Jul-23	03-Oct-23		20-00-23	26-Jul-23	10-Nov-23	15	
DC.S3.1370	Architectural Works (Internal)	63	2	0%	0%			18-Jui-23	03-Oct-23	04-AL0-23		26-Jul-23		15	
	f LV Main Switch Room, Transformer Room	00		79,26%	0.0	12-Jul-21		12-Jul-23	03-CCF23 02-Aug-23	09-Mar-23	17-Dec-23	26501-23 125001-23	02-Aup-23	137	
	brication and Delivery of Major E&M Equipment			07 30%		12-Jul-21		12. Jul 21 A	15.Wes.23		04-Sep-23	12-Jul-21	18.Mey 23	173	
	Tendering of Subcontrator	45	0	100%	100%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-Aug-21 A	and a state of		12-Jul-21	25-Aup-21		
DC.S3.1405b	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		╶┼╎╸╍╺╎╸╘ <mark>╞╧╧┊</mark> ┋┊╸┙╴╸╡╸┝╶┨╶╎┥┼╟╠╴┫╸┟┊╘╺┆╸╞╸╸╸ <mark>┝</mark> ╴╴╴╸┾╴╸╸╴
DC.S3.1410a	Procurement	30	0	100%	100%	14-Feb-22	14-Feb-22	14-Feb-22 A	14-Feb-22 A			20-\dar-22	18-Apr-22		
Febrication				100%		18-Jan-22	25-Feb-23	18-Jan-22 A	25-Feb-23 A			18-Jan-22	16-May-23		
DC.S3.1410b	Cable	247	0	100%	100%	18-Jan-22	22-Sep-22	18-Jan-22 A	22-Sep-22 A			18-Jan-22	13-Nov-22		
DC.S3.1410b20	LV Switchcoard, Motor Control Centers and Associated Components	118	0	100%	100%	31-Oct-22	25-Feb-23	31-0ct-22 A	25-Feb-23 A			31-Oct-22	18-May-23		
Delivery				86.89%		01-Sep-22		01-Sep-22 A	15-War-23	20-Aug-23	04-Sep-23	14-Nov-22	18-Apr-23	173	
DC.S3.1410s	Cable	21	9	100%	100%	01-Sep-22	22-Sep-22	01-Sep-22 A	22-Sep-22 A			14-Nov-22	13-Dec-22		
DC.S3.1410c220	LV Switchtosind, Mator Control Centers and Associated Components	15	0	11.11%	0%	26-Feb-23		26-Feb-23 A	15-Har-23	20-Aug-23	04-Sep-23	20-\tar-23	18-Apr-23	173	
Civil & Structural V	Works			100%		04-Oct-21	31-Jan-23	04-0:521 A	31-Jan-23 A			04-Oci-21	81-Jan-23		
DC.S3.1420	Piling works for pre-bored sockal H-piles (17 ros. diaS10) (1team)	54	5	100%	100%	15-Oct-21	18-Nov-21	15-0::-21 A	18-Nav-21 A			28-Feb-22	02-Apr-22		
DC.\$3.1430	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		
DC.\$3.1431	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		
	Installation of Sheet Piles	8	2	100%	100%	30-Mar-22	11-Apr-22	30-Mar-22 A	11-Apr-22 A			30-Mar-22	11-Apr-22		
DC.S3.1460a	Subjecting of Earthworks	45	0	100%	100%	04-Oct-21	25-Nov-21	04-Oct-21 A	25-Nov-21 A			04-Oct-21	25-Nov-21		
	Installation of ELS and excernition for basement of LV Main Switch Room and Transformer Room	54	2	100%	100%	12-Apr-22	23-Jun-22	12-Apr-22 A	23-Jun-22 A			12-Apr-22	22-Jun-22		
DC.S3.1460b		25	2	100%	100%	25-Jun-22	28-Jul-22	25-Jun-22 A	28-Jul-22 A			31-May-22	02-Jtil-22		
DC.S3.1463b DC.S3.1473	Construction of RC structure (pile cap)					29-Jul-22	15-Aug-22	29-Jul-22 A	15-ALG-22 A			19-Jul-22	03-Aup-22		
DC.S3.1460b		13	1	100%	100%	29-36-22	104439-22	29309223				10/00/22	Compagnee.		
DC.S3.1460b DC.S3.1470 DC.S3.1480	Construction of RC structure (pie cap) Removal of formounds, distevents, tackfilling has filling and removal of ELS	12													Disposal FACILITIES Date Revision Chec App
DC.S3.14626 DC.S3.1470 DC.S3.1480 Prin	Constructor of RC studum (pie cap) Removel of branchs, latererste, lated i rightese filling and removel of ELS many Baseline	12				S SEWER	AGE STA	GE2 - UPG	RADING			USEWAG	GE TREAT	IENT AND D	
DC.S3.14605 DC.S3.1470 DC.S3.1460 Prin	Construction of RC structure (pie cap) Removal of formounds, distevents, tackfilling has filling and removal of ELS	12				S SEWER	AGE STA	GE2 - UPG	RADING			USEWAG	GE TREAT	IENT AND D	30-Nov-22 Rev. 20 JL CL
DC.S3.1460b DC.S3.1470 DC.S3.1480 Prin Actu	Constantion of PC statuture (pie cap) Retroved of Democrist, Subercoles, succelling spaces filling and removed of ELS many BaseIne Usal Work	12				S SEWER	AGE STA		RADING (REV. 2		USEWAG	GE TREAT	IENT AND D	30-Nov-22 Rev. 20 JL CL 31-Dec-22 Rev. 21 JL CL
DC.SS.1460b DC.SS.1470 DC.SS.1480 Prin Actu	Constants of PC studuet (pin cap) Renord of Denecks, Saleworks, sackill rightess tilling and renord of ELS many Baseline Laul Work maining Work	12				S SEWER	AGE STA	GE2 - UPG	RADING (USEWAG	GE TREAT	IENT AND D	30-Nov-22 Rev. 20 JL CL
DC.SS.1460b DC.SS.1470 DC.SS.1460 Prin Actu Rer Criti	Constantion of PC statuture (pie cap) Retroved of Democrist, Subercoles, succelling spaces filling and removed of ELS many BaseIne Usal Work	12				S SEWER	AGE STA	GE2 - UPG	RADING (REV. 2		USEWAG	GE TREAT	IENT AND D	30-Nov-22 Rev. 20 JL CL 31-Dec-22 Rev. 21 JL CL



N ID	Activity Name	Orl. Dur (d)	fRA (d)	Time Elapsed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. 20)	Early Finish (Rev. 20)	Total Amender Float Activitie	Q1 Q2 Q3	04 01	2022	2023 14 Q1 Q2 Q3	3 04 0	2024	04 01 0	2 03 04	2026 Q1 Q2 Q3 Q4
DC.S3.1490a	Subjecting of Finishing Works	181	0	100%	100%	19-Jul-22	31-Jan-23	19-Jul-22 A	31-Jan-23 A			19-Jul-22	31-Jan-23										
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-Aag-22	19-Dec-22			22	-						
DC.SS.1500	Installation of other E&M equipments	70	2	1.89% D%	9%	25-Feb-23		25-Feb-23 A 01-Ap-23	02-Aug-23		17-Dec-23	16-Feb-23 19-Apr-23	02-Aug-23 03-Jul-23	137		444							
DC.58.1500 DC.58.1500b	Installation of other E&M equipments Installation of Electrical System	70	2	DN-	0%			01-Ap>23 01-Ap>23		23-Aug-23 25-Aug-23	17-Nov-23 17-Nov-23	19-Apr-23	03-JEI-23	115		1							
DC.53.15006	Installation of SCADA	35	0	DN-	0%			15-Vay-23		25-94.g-23 07-Ocl-23	17-Ncn-23			120				44					
DC 53 15004	Installation of BS System	45	0	0%	0%			03-VEv-23		23-Sep-23	17-Nov-23			120				4					
DC.83.1510	Site Acceptance Test	30	0	0%	0%			04-Jui-23	02-Aug-23	18-Nov-23	17-Dec-23	04-Jul-23	02-Aug-23	137				4.					
E&M Works of Parts	Tomor Room			2.38%		25-Feb-23		25-Feb-23 A	30-Jun-23	22-Jul-23	17-Nov-23	16-Feb-23	20-Jun-23	140			1.1.1	+++					
DC.\$3.15308	Installation of BS equipment at CLP Transformer Room	34	2	5.58%	0%	25-Feb-23		25-Feb-23 A	12-Apt-23	22-Jul-23	30-Aug-23	16-Feb-23	29-Mar-23	116									
DC.S3.1530b	Site Acceptance Test	4	0	0%	0%			13-Ap+23		31-ALg-23		30-\iar-23	02-Apr-23	140				₽					
DC.S3.1530a	CLP Inspection and Defect Rectification	9	0	DN-	8%			17-Ap+23		04-Sep-23	13-Sep-23	03-Apr-23	20-Apr-23	116				- <mark>2</mark>					
DC.S3.1530d	CLP Re-inspection and Minor Defect Redification	4	0	DN-	0%			27-Ap+23	02-May-23		18-Sep-23	21-Apr-23	25-Apr-23	116		ШЦ.	J. J. J.	- P					
DC.S3.1530d10	Temporary Reinstalement of Access for CLP's Works	12	0	DN-	0%			17-Ap-23		05-Sep-23				117				F_					
DC.83.1530e	Handover to CLP for CLP's Works	45	0	0%	0%			03-Yay-23	29-Jun-23		16-Nov-23		19-Jun-23	116									
DC.83.1530f	Engerizing	1	0	0% 45.1%	0%	01-Feb-23		30-Jun-23 01-Feb-23 A	30-Jun-23 31-War-23	17-NOV-23 09-Mat-23	17-Nov-23 22-Aug-23	20-Jun-23 01-Feb-23	20-Jun-23 24-Mar-23	115				↓ - (`)					
DC.83.1550	Architectural Works (Internal)	48	5	45.1%	33%	01-Feb-23		01-Feb-23 A	31-Har-23		22-Aug-23	01-Feb-23	24-Mar-23	115 *				I					
DC.SS.1560	Architectural Works for CLP Transformer Room (Internal)	42	1	53,49%	100%	01-Feb-23		01-Feb-23 A		09-Mar-23		01-Feb-23	15-Feb-23	a ^				;					
Construction o	Underground Utilities			DN-				18-Sep-23	30-Ocl-23	09-Oct-23	17-Nov-23	14-Jun-23	25-Jul-23	16					₩ 1				
DC.S3.1600	Construction of Drainage and Severage System. Fire Services, Electrical & Plumping Undergound Utilities	32	2	DN-	0%			18-Sep-23	30-Ocl-23	09-Ost-23	17-Nov-23	14-JLn-23	25-Jul-23	16				(4+	-⊪ ⊪				
Temporary Slu	Ige Digestion System			97.68%		24-Jun-22		24-Jun-22 A	30-Dec-23	18-Dec-23		24-Jun-22	29-Nov-23	0		1.121	- 						
DC.S3.1700	Construction of Temporary Studge Digestion System T&C	88	3	100%		24-Jun-22	10-OcI-22	24-Jun-22 A	10-0cl-22 A			24-Jun-22	10-Oct-22			2							
DC.83.1710	Temporary Row Diversion and isolate existing aerobic studge digestor and retovant buildings	8	1	100%	100%	11-Oct-22	20-Oct-22	11-0:0-22 A	20-0ct-22 A			11-Oc1-22	20-Oct-22			sii i	1						
DC.83.1720	Removal of Temporary Sludge Digestion System	10	0	0%	0%			18-Dec-23	30-Dec-23*	18-Dec-23	30-Dec-23	13-Nov-23	29-Nov-23	0				_ (1-1				
	Clearance at the area of Proposed Preliminay Treatment Facilities			100%		20-Oct-22	24-Nov-22	20-0:t-22 A	24-Nov-22 A			20-0c1-22	09-Dec-22				1 I I I						
Demolition wor		02		100%	10.00	20-Oct-22	24-Nov-22	20-0:1-22 A	24-Nov-22 A			20-Oct-22	09-Dec-22										
DC.S3.2010 DC.S3.2020	Demolition of existing Aerobic Studge Digestor Demolition of existing Blower and Pump House	29 29	0	100%	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 A			21-Oct-22 21-Oct-22	09-Dec-22 09-Dec-22							4		+-+	
DC.532020 DC.532030	Demolition of existing General Room	28	0	100%	100%	21-0:t-22 21-0:t-22	24-Nov-22	21-0:0-22 8	24-Nov-22 A			21-Oct-22 21-Oct-22	094Dec-22 094Dec-22			811 I.							
DC.S32040	Disconnecting data link of removed existing equipment from the existing SCADA system	7	0	100%	100%	21-0:0-22 20-0:0-22	26-Oct-22	21-0:0-22 A	26-0ct-22 A			21-0cH22 20-0cH22	26-Oct-22				1	1					
	struction of Preliminary Treatment Facilities			53.12%	The second	12-Jul-21	- P BOLER	12-Jul-21 A	06-Aug-24	28-Feb-23	06-Aug-24	12-Jul-21	23-Apr-24	0			<u></u>						
	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						++++			
	rication and Delivery of Major E&M Equipment			61.25%		12-Jil-21		12-Jul-21.A			08-Jun-24	12-Jul-21	14-Dec-22	80	· · · · · ·	1111	1 1 1 1			1			
DC.S3.3005a	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.83.3005b	Equipment Submission and Approval	544	0	83.09%	50%	03-Dco-21		03-Dec-21 A	30-Way-23*			03-Dec-21	14-Dec-22	21		(-	- i 🗸						
Procurement				0%				01-Jun-23		14-0:0-23				72									
DC.83.3015	Stopiog	1	0	0%	0%			01-Aug-23*	01-Aug-23					123 *				N H					
DC.83.3025	Perstock	1	0	0%	0%			01-Aug-23*	01-Aug-23					123		1		H					
DC.S3.5035 DC.S3.5045	Mechanical Bar Screen - Coatte Screen	1	0	0% 0%	035 035			01-Aug-23* 01-Aug-23*	01-Aug-23					123 *	_								
DC.S3.3055	Screw Conveyor Screw Compactor	1	a a	0%	0%			01-Aug-23*	01-Aug-23	02-Dito-23				123		SH 1							
DC S3.3065	Submicible Pump	1	0	D%	0%			01-Aug-23*	01-Aug-23					123									
DC.S3.3075	Submonible Ja: Mixer	1	0	0%	0%			01-Aup-23*	01-Aug-23					123				· · · · · · · · ·					
DC.S3.3085	Gri Panc	1	0	0%	0%			01-Aug-23*	01-Aug-23					123 *									
DC.\$3.3095	Grit Classifier & Grit Mixer	1	0	0%	0%			01-Aug-23*	01-Aug-23	02-Dec-23	02-Dec-23			123 *									
DC.\$3.3105	Mechanical Filter Mean	1	0	0%	0%			01-Aug-23*	01-Aug-23	02-Dec-23	02-Dec-23			123									
DC.S3.3115	L'fing Applance	1	0	0%	0%			03-Jul-23			06-Dec-23			156 *		шц.							
DC.S3.3125	OI Skinner Pump	1	0	0%	63,			01-Aug-23*	01-Aug-23					123 *		ui T	111					1.1	
DC.S3.3135	Decidorization Unit (DOU/)	1	0	0%	0%			01-Aug-23*	01-Aug-23					123 *	귀 티티								
DC.S3.3145 DC.S3.3155	LV Switchboard/MCC VSD	1	0	D% D%	0% 0%			01-Aug-23*	01-Aug-23		13-Dec-23 13-Dec-23			134 1		21.22							
DC.83.3165 DC.83.3165	VSD UPS with Isolation Transformer	1	0	0%	0%		-	01-Aug-23* 02-Ocl-23*	01-Aug-23 02-OcI-23	13-Dec-23 11-Feb-24	13-Dec-23 11-Feb-24			134	-11 - 1 - 1								
DC.83.3165 DC.83.3175	PLC Parel	1	0	0%	0%			02-00-23* 01-Dep-23*	01-Dec-23					87 *					TLI				
DC.S3.3185	Instrumentation	1	0	0%	0%			01-Jun-23*			14-001-23			135 +									
Fabrication				0%				02-Jun-23	09-Feb-24		09-May-24			90				++				1.1	
DC.S3.3195	Stopiog	125	0	0%	0%			02-Aug-23	04-Dec-23	03-Dec-23	05-Apr-24			123 *									
DC:S3.3205	Peratock	125	0	DN-	8%			02-Aug-23	04-Dec-23	03-Dec-23	05-Apr-24			123 *									
DC.S3.3215	Machanical Bar Schean - Coarse Scheen	125	0	DN-	8%			02-Aug-23	04-Dec-23					123		5111						1	
DC.S3.3225	Seriew Conveyor	125	0	D%-	0%			02-Aug-23	04-Dec-23					123 '		2			P				
DC.S3.3235	Screw Compatter	125	0	DN-	0%			02-Aug-23		03-Dec-23				123									
DC.83.3245	Submersible Pump	125	0	0%	0%			02-Aug-23	04-Dec-23					123 *									
DC.83.3255	Submersible Jet Mixer	125	0	0%	0%			02-Aug-23	04-Dec-23					123 *						4 - 4 -		+ - +	
DC.\$3.3265 DC.\$3.3275	Grit Pump Grit Classifier & Grit Nilser	125	0	0%	0%		-	02-Aug-23 02-Aug-23	04-Dec-23 04-Dec-23					123	-11 - 1 - 1							1	
DC 53 3285	Grit Lassifier & Grit laiser	125	0	0%	0%			02-Aug-23 02-Aug-23	04-Dep-23 04-Dep-23					123									
DC.S3.3295	Lino Acciance	155	0	DN-	0%			02-Mag-23 04-Jul-23	05-Dec-23					156 '				+					
DC.S3.3305	OI Skinner Purp	125	0	DN-	0%		-	02-Aug-23	04-Dec-23					123									
DC.S3.3315	Beodorization Unit (DOU1)	125	0	DN-	0%			02-Aug-23	04-Dec-23					123									
DC.83.3325	LV Switchboard/MCC	125	0	0%	0%			02-Aug-23	04-Dec-23					134				+4					
																	TIEC	Da		Ren	vision	Chec	. Approv
	nary Baseline	DC/201	9/07 OU	ILYING	ISLANDS									VENT AND	JISPOSAL	FACIL	THES	30-Nov		Rev. 20		JL	CL
Act	ual Work						REVISED	D PROGR	AMME -	REV. 2	2 (28 Fe	ebruary 2	023)					31-Dec				JL	CL
Re	maining Work									8 of 13)			1							Rev. 21			
	ical Remaining Work								1. 090									28-Feb	-23	Rev. 22		JL	CL
	-																						
🔶 Ba	eline Milestone																						



Activity ID	Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed X	Actual Actual Start Actual Finish	Early Start	Early Finish	Lale Start	Late Finish	Early Start (Rev.	Early Finish Tot (Rev. 20) Filo	al Amended at Activities	01 0	2021	01 02	922	01 (2023	01 01	2024	4	20: Q1 Q2	20104	01 0	926	2027
DC.\$3.3335	V85	125	0	0%	0%	02-Aug-23	04-Dec-23	14-Dec-23	16-Apr-24	20)	13	4 *			4 42		<u> </u>	199	P		<u>40 44 1</u>		00 04	QT QZ		1 41
DC.S3.3345	UPS with Isolation Transformer	65	0	0%	0%	03-0ct-23	06-Dec-23	12-Feb-24	16-Apr-24		13	2 *				1.11		114	HI I			1.1				
DC.S3.5355	PLC Parel	70	0	0%	0%	02-Dec-23	09-Feb-24		16-Apr-24		63								-							
DC.S3.3366	Instrumentation	195	0	D%	0%	02-Jun-23		15-Ost-23			13															
Deilvery				D%		04-Dec-23	10-Har-24		08-Jun-24		9			- FI		1.11						11				
DC.S3.3375	Sloping	30	0	D%	0% 0%	05-Dec-23	03-Jar-24		05-b/ay-24		12					1 11										
DC.S3.3385 DC.S3.3395	Pensizck Mechanical Bar Screen - Coarse Screen	32	0	D%	0%	05-Dec-23	03-Jan-24 03-Jan-24		05-May-24 05-May-24		12		-	1.1		1.11						1.1				
DC.83.3395 DC.83.3405	Mechanical Bar Screen - Coalse Screen	30	0	0%	0%	05-Dec-23 05-Dec-23	03-Jan-24 03-Jan-24		05-May-24 05-May-24		12		-													
DC.\$3.3415	Screw Conversion	30	0	0%	0%	05-Dec-23	03-Jar-24		05-blay-24		12		-	1.1		1.11										
DC.\$3.3425	Submersible Pump	30	0	0%	0%	05-Dec-23	03-Jar-24		05-May-24		12		-	- EU		1.11			-							
DC.S3.5435	Submensible Jet Mixer	32	0	D%	0%	05-Dec-23	03-Jar-24		05-b/av-24		12		-			1 11			-							
DC.S3.3445	Grit Pump	32	0	DN-	0%	05-Dec-23	03-Jar-24		05-May-24		12			- H		1.11										
DC.S3.3455	Grit Classifier & Gril Mixer	32	0	DN-	0%	05-Dec-23	03-Jar-24	D6-Ap1-24	05-b/ay-24		12		-	- 11	111	1-1-1			-	111	-		1			
DC.83.3465	Mechanical Filter Mesh	30	0	0%	0%	05-Det-23	03-Jan-24	08-Apr-24	05-May-24		12	3 *				1.11										
DC.83.3475	Lifting Applance	30	0	0%	0%	06-Dec-23	04-Jan-24	10-May-24	08-Jun-24		15					1.11				-						
DC.83.3485	OI Skimmer Pump	30	0	0%	0%	05-Dec-23	03-Jan-24	06-Apr-24	05-May-24		12	3 *				1.11										
DC.\$3.3495	Deodorization Unit (DOU*)	30	0	0%	0%	05-Dec-23	03-Jar-24		05-May-24		12															
DC.S3.3505	LV Switchcos n9MCC	32	0	D%	0%	05-Det-23	03-Jar-24		16-May-24		13			2					-9							
DC.S3.5515	CSV	30	0	D%-	0%	05-Dec-23	03-Jar-24		16-b/ay-24		13															
DC.S3.3525	UPS with Isolation Transformer	30	0	DN-	0%	07-Dec-23	05-Jar-24		16-blay-24		13			1 1		1.11										
DC.S3.3535	PLC Parel	30	0	DN-	0%	10-Feb-24	10-Har-24		16-blay-24		67			1. [1]	11					111	11					
DC.SJ.3545 Chill & Structural	Instrumentation	30	0	0%	0%	04-Det-23	02-Jan-24		16-May-24	05.00.00	13	5 .				141										
		442		18.03%	25-Nov-22	25-Nov-22 A	04-May-24		04-May-24	25-Nov-22	20-Jan-24 0					1 117										
DC.83.3020 DC.83.3040	Pre-boring Works for Sneet Pile Wall Installation Installation of Sheet Pile Wall	113 24	0	80.18% 0%	51% 25-Nov-22 0%	25-Nov-22 A 31-Mar-23	25-Apt-23 03-May-23	28-Feb-23 31-Mar-23	25-Apr-23 03-May-23		15-Mar-23 0 27-Mar-23 0				. 11		df-									
DC.53.3050a	Excevation to the Wall	24	0	0%	0%		11-May-23		11-blay-23	09-FE0-23	27-Mar-25 0		-	10.0		1.1.1	T.									
DC.SS.3050a10	Excession to +2 mm/2 Installation of 1st Wailing & Struts	14	0	D%.	0%	04-Vay-23 06-Vay-23	11-May-23 22-May-23				0				11	111		,] [
	Installation of 1st Weiling & Struts Excevation to +0.5mPD (acords: 50m3 rock excevation)	7	0	0%	0%	23-Vev-23		23-May-23			0		+		dH-l		ΗÇ	.	+ # !	4++			· - + ·			
	Installation of Znd Wailing & Struts	14	0	0%	0%	01-Jun-23	18-Jur-23		16-Jun-23		0		-	- ED		$i \in I$	5									
DC.83.3053e40	Excavalion to -31 5mPD (approx 1000mB rock excavation)	18	g	0%	0%	17-Jun-23	07-Jul-23		07-Jul-23		0		-	2.1		1.1.1										
	Installation to 3rd Walling & Struts	14	a a	0%	0%	08-Jul-23	24-Jul-23		24-Jul-23		0			1.1		+		F								
DC.83.3050660	Excavation to -5mPD (approx, 550m3 rock excavation)	18	0	0%	0%	25-Jul-23			11-Aug-23		0	•		2.21		1.1.1										
DC.S3.3050a70	Installation to 4th Walling & Struts	11	0	0%	0%	12-Aug-23	24-Aug-23	12-Aug-23	24-Aug-23		0	•				1		191								
	Excevation to -8.075m PD and Blinding Layer (approx: 950m3 rock excevation)	16	0	0%	0%	25-Aug-23	12-Sep-23	25-ALg-23	12-Sep-23		0					111										
DC.SS.3060	Plate Loed Test (Totel 3 nos.)	5	0	0%	0%	13-Sep-23	17-Sep-23	13-Sep-23	17-Sep-23	30-Jun-23	11-Jul-23 0					1 + 1		411				1.1				
DC.SS.3080	Construction of File Cap (Grid E to Grid H) (1200m3.6 pours)	30	0	0%	0%	28-Sep-23	04-Nov-23	28-Sep-23	04-Nov-23	12-Jul-23	27-Oct-23 0					1.1.1	N	\$	1 II I							
DC.53.3063a	Removal of 4th Walling and Sirula	8	0	DS-	0%	06-\\0+-23	11-\ov-23	08-Nov-23	11-Nov-23		0					111			1							
DC.83.3063b	Construction of Pile Cap (Grid A to Grid E) and R.C. Wall to -3 5mPD (Grid E to Grid H) (920m3, 5 pours)	25	0	0%	0%	13-\\01-23	11-Dec-23		11-Dec-23		0					111						-				
DC.83.3083c	Removal of Srd Wailing and Siruls	8	0	0%	0%	12-Det-23	18-Dec-23	12-Dec-23	18-Dec-23		0	•				1.1.1										
DC.83.3083d	Construction of RC Wall (from -3.5mPD to +0.5mPD) (380m3, 2 pours)	18	0	0%	0%	19-Dec-23	11-Jan-24	19-Dec-23	11-Jan-24		0					111										
DC.S3.3080e	Removal of 2nd Wailing and Smuts	6	0	0%	0%	12-Jan-24	18-Jar-24		18-Jan-24		0					111			H							
DC.S3.3080f	Construction of RC Well (from +0.5mPD to +2.5mPD;	18	0	0%	0%	19-Jan-24	08-Feb-24		08-Feb-24		0					i.i.l	h					_				
DC.S3.3080g	Removal of 1st Wailing and Struts	6	0	0%	0%	09-Feb-24	19-Feb-24		19-Feb-24		0		_						E							
DC.S3.3080h	Construction of RC Ground State (from +2.5mPD to +4.8mPD)	23	0	DS-	0%	20-Feb-24	13-Har-24		13-blar-24		0		_			1 + 1										
DC.S3.3080i DC.S3.3100	Construction of RC Wall and WCC Room Stab (from +4.8mPO to +0.35mpD)	23	0	DS-	0%	14-Mar-24	10-Apr-24		10-Apr-24	20.11. 20.	0		_			111	И			1 1						
E&M Works	Construction of RC Wall and Roof Stab (from +9.25 to +13.58)	23	0	0% 0%	0%	11-Ap+24 05-Vav-24	04-May-24	11-Apr-24	04-blay-24 02-Apg-24	09-Nov-23 22-Jan-24	20-Jan-24 0					111	r I			1						
DC.S3.3120	E&W, Mechanida Installation (Mixers, Intel Pumps, Gritnemoval system, DO systems and etc.)	48	2	0%	05	05-989-24 06-989-24	02-400-24	06-May-24			19-Apr-24 0 20-Mar-24 0			5]												
DC.S3.3120a	Electrical Installation (Cable, Instrument, PLC Planet LVSB, etc)	40	2	0%	0%	05-Vsy-24	21-Jur-24		03-Jul-24	26.001154	201001/24 0		-			111	N			-						
DC.83.3120b	Installation of BS Equipment	25	0	0%	0%	18-Vsy-24	11-Jur-24		03-Jul-24		2															
DC.53.3120610	Installation of Lifting Appliance	25	0	0%	0%	18-Vsv-24	11-Jur-26		03-Jul-24		2	2 .	-	1.1		111				-						
DC.S3.3133a	SCADA System Site Acceptance Test (Prase 3 PTF Construction)	30	0	DS-	0%	14-9ay-24	12-Jur-24		03-Jul-24	22-Jan-24	20-Feb-24 2					11/	1									
DC.S3.3133b	SCADA System Commissioning Test (Prese 3 PTF Construction)	30	0	D%	0%	13-Jun-24	12-Jul-24		02-Aug-24		2'-Mar-24 2'		1		di de c	111	11	1	t III	1.0	t t	- 1- 1	; <u>†</u>			
DC.S3.3143b	System Commissioning Test	30	0	D%	0%	04-Jul-24	02-Aug-24		02-Aug-24	21-\dar-24	19-Apr-24 0					1 11			1 1 4	.	<u> </u>					
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DC.83.3110	Architectural Works (Internal)	58	2	0%	0%	06-ilay-24	17-Jul-24	23-May-24		22-Jan-24	08-Apr-24 14					11)	1			. =						
Temporary Flow				0%		14-Mar-24	06-Aug-24		06-Aug-24	02-Dec-23	23-Apr-24 0									110	7					
DC.S3.1550a	Installation of Temporary Studge Thickening System	92	8	0%	0%	19-Mar-24	22-Jul-24	08-Apr-24			10-Apr-24 1						11		┝╋┿┥		1					
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		03-Jun-24		29-Dec-23 43				111		1		H.	F []]						
DC.S3.3160	Temporary severage pipe from existing manhole FK#r7000149 to manhole FK#r21 to isolate Intel Chamber	42	3	D%	0%	06-Vay-24	28-Jur-24		03-Jul-24		16-Mar-24 3					1 1										
DC.S3.3170	Temporary Row Diversion to isolate existing preliminary beatment system	2	1	DS-	0%	03-Aug-24	06-Aug-24	03-Aug-24			23-Apr-24 0					111				P 1		1				
E&M Works - 3	0-month performance verification (At least 9 months before End of S3)			DS-		07-Aug-24	07-May-25		07-blay-26	24-Apr-24	19-Jan-25 0				, 4. Jan	i.i.l		444			<u></u>		İ		dan dan	
DC S3.3180	32-month performance verification (At least 9 months before End of S2) (Period from (thits 9th month)	274	0	D%	0%	07-Aug-24	07-May-25	07-ALg-24			19-Jan-25 0				. 11	1 10	11				TT					
	f Underground Utilities			DN-		06-Way-24	22-Jur-24		03-Jul-24	22-Jan-24	11-Mar-24 8				11	1 I V							- E -			
DC \$3.3250	Construction underground utilities for MBR Treatment Facilities and Perfiminary Treatment Facilities	35	2	D%	0%	06-Vey-24	22-Jur-24	16-May-24			1'-Mar-24 8			1. [1]	. 11	11	([]									
	nolition of existing Preliminary Treatment System			DN-		07-Jun-24	18-OcI-24		09-Nov-24	08-Feb-24	09-361-24 23					111										
DC 53.4010	Demolition of existing inlet pumping station, preliminary treatment facilities & primary sediment tank	24	0	0%	0%	07-Aug-24		07-ALg-24			15-Jun-24 0			티네티	, 4	44/	 	444	∔ ∎_'	ar-	644	-4-4				
DC-S3.4020	Modification of Intel Chamber	55	4	DS-	0%	07-Aug-24	18-Oct-24	29-ALg-24	09-Nov-24	2E-Apr-24	09-Jul-24 11	3	LL L												<u> i i </u>	
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Prir	nary Baseline	DC/201	9/07 OL	UTLYING	ISLANDS SEWERAGE STA	GE2 - UPC	RADING	OF CHEUI	NG CHA	U SEWAGI	E TREATME	NT AND I	DISPOS	AL FA	CILITIE	s		Date			Revisio	<u>س</u>	Chec.	<u> </u>	pprove	iq T
	ual Work																30-	Nov-22	2	Rev. 2	20		JL	CL		
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	maining Work						(Pagi	e 9 of 13)										Feb-23		Rev. 2			JL	CL		
Crit	ical Remaining Work																		P							
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	ty ID	Activity Name	Ori, Dur (d)	TRA (d)	Time Expeed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Lite Start	Late Finish	Early Start (Rev. 20)	Early Finish Total Amended (Rev. 20) Float Activities	2021 2022 Q1 Q2 Q3 Q4 Q1 Q2 Q3	2123 Q4 Q1 02 03 Q4 Q	2024	2025 20 02 03 04 Q1 02	Q3 Q4
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Static Match Lange of Pol_ V <	DC.53.3190	Piling works for pre-bored sockal H-piles (14 ros. dis 610 x 14m. 1 teams)	28	4		0%				05-Feb-24	24-Jan-24	01-b/ar-24							
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Norm	DC.83.3210	Excavation and installation of ELS for WAS Storage Tank		2					28-Mar-24	13-Jun-24	22-Apr-24	06-Jul-24	02-Mar-24	20-May-24 19		-	+		
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DEX.DDS Mpcle (namourp fuit) 1 0 10 0	DC.S3.5220a			0		03,			07-Jan-25	07-Har-25	08-Jan-25	08-Mar-25		26-Dec-24 1					
Number Network No	DC.83.5223b	SCADA System Commissioning Test (Phase 5 Effuent Reuse Construction)		0						06-May-25	09-Mar-25	07-Nay-25	27-Dec-24	24-Feb-25 1				• • • •	
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Primary Baseline DC/2019/07 OUTLYING ISLANDS SEWERAGE STAGE2 - UPGRADING OF CHEUNG CHAU SEWAGE TREATMENT AND DISPOSAL FACILITIES REVISED PROGRAMME - REV. 22 (28 February 2023) Date Revision Chec Approv Actual Work 30-Nov-22 Rev. 20 JL CL Remaining Work (Page 10 of 13) 31-Dec-22 Rev. 21 JL CL	DC.83.52406 DC.83.5240f															*			
Primary baseline DC/Z019/07 / 001 LTING ISLANDS SEWERAGE STAGE2 - OPGRADING OF CHEUNG CHAD SEWARE FREATMENT AND DISPOSAL FACILITIES 30-Nov-22 Rev. 20 JL CL Actual Work REVISED PROGRAMME - REV. 22 (28 February 2023) 31-Dec-22 Rev. 21 JL CL Critical Remaining Work (Page 10 of 13) (Page 10 of 13) 28-Feb-23 Rev. 22 JL CL							1	1										Choo A-	
Actual work REVISED PROGRAMME - REV. 22 (28 February 2023) 31-Dec-22 Rev 21 JL CL Remaining Work (Page 10 of 13) (Page 10 of 13) 28-Feb-23 Rev. 22 JL CL		-	DC/201	9/07 Ol	JTLYING	ISLANDS	S SEWER	AGE STA	GE2 - UPG	GRADING	OF CHEU	NG CHA	U SEWA	GE TREATMENT AND D	DISPOSAL FACILITIES				piove
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ivity ID	Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed X.	Actual Workdone S	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. 20)	Early Finish Total (Rev. 20) Ficat	Amended	2021	2022	04 01	2023	2024	04 01 17	2025	2026 2 Q1 Q2 Q3 Q4
DC:\$3.5240g	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 99							THE	- us ur	4. 4. 4. 4.
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 99				÷					
DC.83.5240i	Delivery of FRP water tanks	100	0	0%	03,			14-Jun-24	21-Sep-24	21-Sep-24	29-Dec-24	14-May-24	21-Aug-24 89									
DC.S3.5240j	Procurament of sumps	150	0	DN-	0%			30-Jun-23	26-Nav-23	07-Oct-23	04-b/ar-24	30-May-23	26-Oct-23 99		0 1 1 1	1.1	3 I I 4					
DC.S3.5240k	Fabrication of pumps	200	0	DN-	0%			27-Nor-23	13-Jur-24		20-Sep-24	27-Oci-23	13-May-24 99		1			1				
DC.53.5240I	Delivery of pumps	100	0	D%	0%			14-Jun-24	21-Sep-24	21-Sep-24	29-Dec-24	14-May-24	21-Aug-24 99									
Civil & Structura	IWorks			DN/				04-Sep-24	18-Dec-24	28-Sep-24	14-Jan-25	17-Jun-24	05-Nov-24 20				11			ΠIII		
DC.83.5250 DC.83.5260	Installation of pipe pile well of ELS (82 nos, dia323 x 12m, 1team) and Sheetpile (56nos FSPIII sheetpile x9m)	20	1	0%	0%			04-Sep-24	27-Sep-24		23-0ct-24	17-Jun-24	28-Jtl-24 20									
DC.83.5260 DC.83.5270	Grout Curtain Works	9	1	0%	0%			20-Sep-24 03-Dct-24	02-Oct-24 18-Oct-24	16-Oct-24 28-Oct-24	26-0ct-24 11-Nov-24	22-Jul-24	10-Aug-24 20 31-Aug-24 20		particular de la des		4-4					
DC.83.5260	Installation of FLS and excertion for basement (940m3 exce, 1team) Construction of RC structure (below ground, 512m3)	22	1	0%	0%			19-0ct-24	16-Oct-24 14-Nov-24		07-Dec-24	12-Aug-24 02-Sep-24	30-Sep-24 20									
DC.53.5290	Removal of formeorks, fabeworks, application of oxilarpropring, backfilling and removal of ELS	5	1	D%	0%			19-00-24 15-Nor-24	21-Nov-24	12-NOV-24 D9-Dec-24	14-Dec-24	02-Sep-24 02-Dcl-24	08-Oct-24 20		0 1 1 1							
DC.53.5300	Construction of RC Structure (above ground, 328m3)	22	1	D%	03			22-\\or-24	18-Dec-24	16-Dec-24	14-Jan-25	05-Cci-24	06-Nov-24 20									
E&M Works				DN.	67			21-Nor-24	09-401-25	20-Dec-24	07-Man-25	09-061-24	12-Mar-25 28									
DC.83.5320	E&HLVSB and BS Installation (pumps and associated pipe works)	87	5	0%	0%			21-307-24	19-Feb-25	30-Dec-24	27-Mar-25	06-Cc1-24	04-Jan-25 31		(
DC.63.5330	Site Acceptance Test	30	0	0%	0%			01-Feb-25	02-Har-25		07-Apr-25	14-Dec-24	12-Jan-25 36				111					
DC.83.5340b	System Commissioning Test (Final Testing)	30	0	0%	0%			11-Mar-25	09-Apt-25	08-Apr-25	07-May-25	13-Jan-25	13-Mar-25 28				± 11			1 		
Internal Architec	tural Works			0%				19-Dec-24	09-Apr-25	15-Jan-25	07-May-25	07-Nov-24	28-Feb-25 20							11		
DC.88.5310	Architectural Works (Internal)	84	6	D%	0%			19-Dec-24	09-Apr-25	15-Jan-25	07-May-25	07-Nov-24	2f:-Feb-25 20									
	of Dangerous Goods House			D%				26-Sep-24	26-Apr-25	10-Oct-24	13-May-25	17-Jun-24	29-Mar-25 17				T			an tr		
DC.S3.5350	Installation of ELS and excavation for basement(45nos FSPIII x 9m, 70m3 exce, fiteem)	11	1	DN-	0%			25-Sep-24	10-OcI-24		24-Oct-24	17-Jun-24	29-Jun-24 11						l P I			
DC.S3.5360	Construction of RC shucture (below ground, \$4m2)	15	1	DN-	0%			12-0ct-24	02-Nov-24	25-Oct-24	15-Nov-24	02-Jul-24	05-Aug-24 11		1 I I I		11					
DC.83.5370	Backfilling to ground level and removal of ELS	8	1	0%	0%			04-Nor-24	13-Nov-24		26-Nov-24	06-Aug-24	19-Aug-24 11							11		
DC.S3.5380	Construction of RC Structure (above ground, 21m3)	18	1	0%	0%			14-Nor-24	05-Dec-24	27-Nov-24	18-Dec-24	20-Aug-24	24-Sep-24 11		[÷-1-1			41.		
DC.\$3.5380	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							d Li		
DC.S3.5400a DC.S3.5400b	E&H installation and testing DG inspection by FSD	45 28	2	0% 0%	0%			04-Jan-25 30-Mar-25	03-Har-25 26-Apr-25	17-Jan-25 16-Apr-25	15-Mar-25 13-May-25	01-Nov-24 20-Mar-25	03-Feb-25 11 29-Mar-25 17				1 D E			TTL.		
Roadworks &		25	u	0%	0%			29-Feb-24	20-H01-20 12-May-20	08-May-24	13-bay-25	20-Mar-25 31-Oct-23	28-MBH-25 17 10-Mar-25 1				111		لللطلي ا		. i i	
DC.S3.5410	Underground Utilities (Permanent pipeworks, Sewerage System, Road Drainage System) Nain access between MBR & PTF	73	2	0%	03.			29-Feb-24 29-Feb-24	29-h/ay-24		02-Aug-24	31-Oct-23	25-Mar-24 54				111				11.1	
DC.S3.5420	Main access balween PTF. Elliuent Reuse Building, FS Pumproom and Pumproom	55		0%	0%			15-00-24	23-Dec-24		21-Jan-25	10-Sep-24	21-Nov-24 22		[÷	· • + + • • • • •	FII U	3	1 	
DC.S3.5430	Main access between Administration Building & Inici Chamber	55	2	0%	0%			04-Sep-24	15-Nov-24		07-May-25	17-Jun-24	28-Aug-24 138						▋▋┡┷┨	a i i		
DC S3 5440	Main access between Studge Centrifuge Building & Studge Digestor Building	58	2	0%	0%			04-Sep-24	15-Nov-24		07-May-25	17-Jun-24	28-Auc-24 138						▋▋┡━╉	H 11	11.1	
DC.S3.5450	Permanent flow Diversion	4	1	0%	0%			07-Way-25	12-May-25	08-May-25	13-May-25	14-Mar-25	19-Mar-25 1				1 1			1 1 4 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	28-Feb-25 25				1 J -			╽┠╍┿╡╿	(L	
Sludge Dewate	aring House			23.09%		15-Aug-22		15-Aug-22 A	02-Feb-25	11-Jin-22	13-May-25	31-Jul-22	02-Oct-25 100		(in the second s						rtter	
DC.S3.5460	A&A works of Studge Devisioning House	158	12	0%	03,			08-Aug-23	14-Har-24	08-ALg-23	14-b/ar-24	20-Jan-23	28-Aug-23 0				<u> </u>				(L	
DC.S3.5460s	Equipment Submission and Approval	397	0	43.62%	0%	15-Aug-22		15-Aug-22 A	15-Sep-23	11-Jun-22	27-Dec-22		-262			-					(i i i i i i i i i i i i i i i i i i i	
DC.S3.5470a	Procurement	1	0	100%	107%	28-Dac-22	26-Dec-22	28-Dec-22 A	28-Dec-22 A			31-Jul-22	31-Jan-23			- L	┿╄┡╸					
DC.S3.5470b	Fabrication	380	0	7.78%	0%	31-Jan-23		31-Jan-23 A	25-Jan-24	08-Jun-23		01-Feb-23	31-Dec-24 100				· •			de U	L	
DC.S3.5470c1	Deiroy	59	0	0%	0%			28-Jan-24	24-Har-24		02-Jul-24	01-Jan-25	01-Mar-25 100								(L .	
DC.S3.5470c2	Installation of E&M, MCC & BS Equipment	270	0	0%	0%			25-Mar-24	19-Dec-24		29-Mar-25	19-Oct-23	18-Aug-25 100					111			CC L	
DC.S3.5480s1	Testing and commissioning	30	0	0%	0%			20-Dec-24	18-Jar-25		28-Apr-25	19-Aug-25	17-Sep-25 100								1 T -	
DC.S3.5480s2	Decommissioning of Existing E&M Equipment and MCC		0	0%	03,			19-Jan-25	25-Jar-25		05-May-25	18-Sep-25	24-Sep-25 100 02-Oct-25 100								1 D.	
DC.S3.5480s3	Installation of MCC for FS pumping station and Cabling Works	8	0	0%	0%	30-Sec-22		26-Jan-25 30-Sep-22 A	02-Feb-25	03-Jun-23	13-May-25	25-Sep-25 30-Sep-22	02-Oct-25 100 04-Oct-24 92						┢╾╢┝╼┪			
Administration DC.S3.5490	A&A works of Administration Building	224	16	0%	05	ph-det-cs		28-001-23	19-Aug-24		21-Nov-24	27-Jun-23	17-Apr-24 78					1				
DC.S3.5500a	Procurement of EL Equipment	213	0	70.89%	30%	30-Sec-22		30-Sep-22 A	30-Apr-23		03-Aug-23	30-Sep-22	28-Dec-22 95								11.11	
DC.S3.5500b	Fabrication of EL Equipment	150	0	0%	0%	eo cop ca		01-964-23	27-Ocl-23		30-Jan-24	29-Dec-22	28-Jun-23 95				- F	┿┿┿╿			(H.	
DC.83.5500c	Delivery of EL Equipment	120	0	0%	0%			28-Oct-23	24-Feb-24		29-May-24	27-Jun-23	24-Oct-23 85								11.11	
DC.\$3.5500d	Procurement of Sankary Fitments	30	0	0%	0%			20-Aug-24	18-Sep-24	22-Nov-24	21-Dec-24	18-Apr-24	17-Msy-24 84						_ 4 4 H		11.11	
DC.S3.5500e	Fabrication of San any Fitments	50	0	0%	0%			19-Sep-24	07-Nov-24		09-Feb-25	18-May-24	08-Jul-24 84		11 : 11				<u> </u> ₩⊾∣⊧	H	6 U.	
DC.S3.5500f	Delivery of Sanitary Fitments	10	0	0%	03,			08-\\or-24	17-Nov-24	10-Feb-25	19-Feb-25	07-Jul-24	16-Jul-24 84								e 11 -	
DC.S3.5500g1	BS Installation	25	2	0%	0%			18-\\o+-24	21-Dec-24		26-Mar-25	17-Jul-24	20-Aug-24 75						╽║┝┥┧	∎ !! []]]	A 11 -	
DC.S3.5530g2	Electrical Installation	25	2	DS-	0%			18-\\o+-24	21-Dec-24		26-Mar-25	17-Jul-24	20-Aug-24 75								u.u.	
DC.S3.5530g3	Control and SCADA Installation	28	2	0%	0%			18-\\or-24	21-Dec-24	20-Feb-25	26-Mar-25	17-Jul-24	20-Aug-24 75							// ft [] []		
DC.S3.5530h	Completion of all the works in the new control room	0	0	0%	0%				21-Dec-24		26-Mar-25		20-Aug-24 95				:(L		 	///////////////////////////////////////	61.01	
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-Aag-24	28-Aug-24 75				4 1		H		(1. E. L.	
DC.83.5510b	Vacating the existing control room and A&A Works	30	0	0%	0%			03-Jan-25 04-Sep-24	10-Feb-25	04-Apr-25	13-May-25	29-Aug-24	04-Oct-24 75				111					
A&A of existing DC.S3.5520		60	2	0% 0%	03,			04-Sep-24 04-Sep-24	01-May-25 18-Nov-24	17-Sep-24 17-Sep-24	13-May-25 30-Nov-24	17-Jun-24 17-Jun-24	27-Feb-25 12 16-Sep-21 11		وأدعد ماغا	+	.÷		<u> </u> -4∐≟fI		مطاؤمهم	
DC.S3.5520 DC.S3.5530s	A&A works of existing outfall pumping station and header bank Progurement	20	2	D%	0%			04-Sep-24 19-Non-24	18-Nov-24 08-Dec-24		30-Nov-24 20-Dec-24	17-Jun-24 17-Sep-24	16-Sep-24 11 06-Ont-24 12							J	(III -	
DC.S3.5530b	Fiburement Fabrication	2.	0	0%	0%		-	09-Dec-24	10-Eeb-25		20-Deb-25	07-Ocl-24	09-Dec-24 12				÷ 11			11411	11.00	
DC.S3.55306 DC.S3.5530c	Patrication Delivery and Installation	23	0	0%	0%		-	11-Feb-25	02-Har-25	23-Feb-25	22-Heb-25 14-b/ar-25	10-Dec-24	29-Dec-24 12						/ lî	1011	1 H -	
DC.83.5540	Testing and commissioning	80	0	0%	0%			03-Mar-25	01-May-25		13-blay-25	30-Dec-24	27-Feb-25 12		1 : 11					d 🖬 🖬	() I	
	f Emergency overflow chamber			0%	2.0			24-60:-24	20-4:01-25	16-Sep-24	13-May-25	15-May-24	10-Mar 25 23				4 / -			/ -{ -{} -{} -{} -{} -{} -{} -{} -{} -{} -{}	1 U -	
DC.83.5550a	Procurement of E&M Equipment	30	0	0%	0%			24-Aug-24	22-Sep-24	16-Sep-24	15-Oct-24	15-May-24	13-Jun-24 23		11 : 11		111		_ <u> </u>		6 H -	
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				IN I		/ 4_4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11.11	
DC.S3.5550r	Delivery and Installation of E&M Equipment	30	Ð	0%	0%			21-Jan-25	19-Feb-25	13-Feb-25	14-blar-25	11-Dec-24	09-Jan-25 23							1446151	11.11	
DC.S3.5550d	Testing and Commissioning	30	9	0%	0%			22-Mar-25	20-Apr-25	14-Apr-25	13-May-25	09-Feb-25	10-Mar-25 23				+ U -			1 	e 11 -	
E&M Submissi	ion and inspection for permanent water supply, power supply and fire services works			38.65%		14-Oct-21	_	14-Oct-21 A		28-Feb-23	13-May-25	14-Ocl-21	29-Mar-25 17		1 1 1 1	the second se	1 1			1111111	n th	
		T															<u> </u>	Date		evision	Chec	. Approved
Pri	mary Baseline	DC/201	9/07 O	UTLYING I	SLAND	S SEWER	AGE STA	GE2 - UPG	RADING	OF CHEU	ING CHA	U SEWA	GE TREATMEI	IT AND D	SPOSAL FA	CILITIES						
Ac	tual Work						REVISE	D PROGE	RAMME -	REV 2	2 (28 F4	hruary '	2023)					-Nov-22	Rev. 20		JL	CL
																	31-	-Dec-22	Rev. 21		JL	CL
	emaining Work								rage	11 of 13)	,						28-	-Feb-23	Rev. 22		JL	CL
Cri	itical Remaining Work																					
🔷 🔷 Ba	seline Milestone																					
	1	1																				



vity ID	Arbitty Nane	Ori. Dur (d)	TRA (d) Time Ela	psed %	Actual tricking Si	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start(Rev. 201	Early Finish Total Amended 2021 2022 (Rev. 20) Final Activities 01 02 03 04 01 02 1 1 02 1 02 1 02 1 02	2023 2024 2026 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q	2026 202 3 04 01 02 03 04 01
DC.83.5560	Preparation and approval of WWO 542 submission (FS system)	265	0 100		100%	07-Jan-22	28-Stp-22	07-Jan-22 A	28-Stp-22 A			20 07-Jan-22	(New.20) Fibit Activities Q1 02 03 Q4 D1 02 1 28-Sep-22		3 04 01 02 03 04 01
DC.83.5570	Preparation and approval of WWO 542 submission (Plumbing system)	279	0 100		10035	14-Oc5-21	20-Jul-22	14-0::-21 A	20-Jul-22 A			14-0:1-21	20-30-22		
DC.53.5580	Preparation and approval of WWO 46 submission (ES system)	244	0 62:	86	30%	29-Sep-22		29-Sep-22 A	30-Hav-23	28-May-23	27-Aug-23	28-Sec-22	26-Jan-23 89		
DC.S3.5590	Preparation and approval of WWO 46 aubmission (Plumbing system)	273	0 05		30%	31-Aug-22		31-Aug-22 A	30-Han-23	28-May-23	27-Aug-23	31-Aug-22	28-Dao-22 89		
DC.S3.6800	WSD Inspection (FS system)	10	0 01		0%			28-Jan-25*	06-Feb-25		28-Feb-25	28-Jan-25	08-Fab-25 22	×	
DC.S3.5810	WSD Inspection (Pluniting system)	10	0 01		0%			20-Feb-25	01-Mar-25	06-Aur-25	15-Apr-25	07-Feb-25	18-Feb-25 45		
DC.83.5830	Properation and approval of GBP submission for CCSTW	449	0 99.5	5%	90%	06-Dec-21		06-Dec-21 A	01-Mar-23	28-Feb-23	01-Mar-23	08-Dao-21	28-Ct H22 D		
DC.83.5840	Preparation and approval of DG submission (Upon GBP submission)	183	0 153	86	0%	31-Jan-23		31-Jan-23 A	01-Aug-23	26-Mar-23	27- <i>i</i> lug-23	29-0:t-22	25-Feb-23 28	/ ■=====	
DC.83.5850	Preparation and approval of FSI314 for VAC (Uson GBP submission)	183	0 15:		05	31-Jan-23		31-Jan-23 A	01-Aug-23	26-Mar-23	27-Aug-23	29-Oct-22	25-Feb-23 28		
DC-83.5880	Submission of Form 314, 501 and 501a for CCSTW	90	0 05	;	055			08-Jan-25*	07-Apr-25	30-Jan-25	29-Apr-25	08-Feb-25	09-Mar-25 22		
DC-53:5892	FSD Inspection of CCSTW (Final Inspection)	14	0 05		055			08-Ap+25	21-Apr-25	30-Aar-25	13-May-25	10-Mar-25	23-Ma+25 22		
DC.S3.5700	DG inspection by FSD	10	0 0		0%			17-Ap>25	28-Apr-25	04-May-25	13-May-25	20-Mar-25	29-Mar-25 17		
SCADA System			36.3	356		15-Dec-21		15-Dec-21 A	0E-Apr-25	22-Mar-23	13-May-25	15-Deo-21	19-Feb-25 37		
DC.S3.5705	SCABA Equipment Submission and Approval	349	0 100	5.	100%	15-Dec-21	28-Nov-22	15-Dec-21 A	28-Nov-22 A			15-Dao-21	28-Nov-22	🛲 👌 🕴 🚺 👘 👘 👘	
DC.83.5710	Procurement	30	0 100	55	100%	31-Aug-22	28-Nov-22	31-Aug-22 A	28-Nov-22 A			31-Aug-22	28-Nov-22		
DC.83.5720	Fabrication	416	0 39	65	39%	15-Sep-22		15-Sep-22.A	04-Nov-23	22-Mar-23	26-Nov-23	15-Sec-22	18-Jan-23 22		
DC.83.5730	Delvery	30	0 05		0%			05-Vor-23	04-Dec-23	15-Jun-24	14-301-24	19 Jan 23	17-Feb-23 223	• • • • • • • • • • • • • • • • • • •	
DC.83.5770	Preparation and cable installation works by communication company	540	0 64.0	555	60%	04-Jun-22		04-Jun-22 A	28-Jul-23	20-Jun-23	17-Nov-23	04-Jun-22	03-Feb-23 112		
DC.83.5775b*	SCADA eculpment installation (Phase 1 Studge Digestor Building Construction)	30	0 05		0%			10-Aug-23	08-Sep-23	19-Sep-23	18-Oct-23	28-Jul-23	24-Aug-23 40		
DC.53.577552	SC4DA eculpment installation (Phase 3 PTF Construction)	30	0 0		0%		-	26-Mar-24	24-Apr-24	04-May-24	02-Jun-24	14-Deo-23	12-Jan-24 39	× •	
DC.S3.577552	SCADA eculpment installation (Phase 1 MBR Construction)	30	0 0		0%			15-Mar-24	12-Apr-24	15-Mar-24	13-Apr-24	31-Oct-23	29-Nov-23 D	/	
DC.S3.577554	SC4DA eculpment installation (Phase 5 Effluent Reuse Construction)	30	0 0		0%		-	08-Dec-24	0E-Jan-25		08-Mar-25	29-Sep-24	28-0c1-24 6'	N	
DC.83.577505	SCADA eculpment installation (Phase 5 Studge Constitution)	30	0 05		0%		-	24-Dec-24	22-Jan-25	04-Jan-25	02-Feb-25	22-Nov-24	21-080-24 11	N	
DC.83.577568	SCADA eculpment installation (Phase 5 Studge Dewatering System)	30	0 05		0%			21-Sep-24	20-Cc1-24	04-Jan-25	02-Feb-25	13-Oct-24	11-Nov-24 105		
DC.83.577567	SCADA eculpment installation (Section 2 at PSSPS)	30	0 05		0%			15-Mar-24	13-Apr-24		27-/ipt-25	18-Feb 23	19-Mar 23 379		
DC.83.5775c1	SCADA System Site Acceptance Test (Phase 1 Sludge Digestor Building Construction)	30	0 05	;	0%			09-Sep-23	08-Cc1-23		17-Nor-23	25-Aug-23	23-Sep-23 40		
DC.53.5775c2	Disconnecting data link of removed existing equipment from the existing SCADA system (Phase 2 Ste Clearance at PTF Area)	7	0 100	5,	100%	31-Jan-23	06-Feb-23	S1-Jan-2S A	06-Feb-23 A	1		19-Jan-23	25-Jan-23	- +-)	
DC.53.5775c2	SCADA System Sile Acceptance Test (Phase 3 PTF Construction)	30	0 05		0%			14-9sy-24	12-Ji. n-24	04-Jun-24	03-Jui-24	22-Jan-24	20-Feb-24 2'		
DC.S3.5775o4	SCADA System Site Acceptance Test (Phase 1 MBR Construction)	30	0 05		0%			14-Apr-24	13-Hay-24		13-May-24	30-Nov-23	29-Deo-23 0	(4	
DC.83.5775c5	Disconnecting data link of removed existing equipment from the existing SCADA systm (Phase 4 Demoiltion of existing PTF)	7	0 05		0%			20-Sep-24	26-Sep-24	03-Nov-24	09-Nov-24	03-Jul-24	09-Jul-24 44	× · · · · · · · · · · · · · · · · · · ·	
DC.S3.5775c8	SCADA System Sile Acceptance Test (Phase 5 Elluent Reuse Construction)	30	0 05		0%			07-Jan-25	05-Feb-25	09-Mar-25	07-Apr-25	29-O:I-24	27-Nov-24 6'		
DC.\$3.5775c7	SCADA System Sile Acceptance Test (Phase 5 Studge Centrifuge Construction)	30	0 05		0%			23-Jan-25	21-Feb-25	03-Feb-25	04-Mar-25	22-Dec-24	20-Jan-25 11	N N	
DC.\$3.5775c8	SCADA System Site Acceptance Test (Phase 5 Studge Dewatering System)	30	0 05		0%			21-001-24	19-Nov-24	03-Feb-25	04-Mar-25	12-Nov-24	11-Dec-24 105		
DC.53.5775c9	SCADA System Site Acceptance Test (Section 2 at PSSPS)	30	0 05	;	0%			31-Mar-24	28-Apr-24	14-Adr-25	13-May-25	06-Mar-23	04-Apr-23 379		
DC.53.5775d1	SCADA System Commissioning Test (Phase 1 Studge Digestor Building Construction)	30	0 05	;	0%			09-0ct-23	07-Nov-23	18-Nov-23	17-Dec-23	24-Sec-23	23-Oct+23 40		
DC.53.5775d2	SC4DA System Commissioning Test (Phase 3 PTF Construction)	30	0 05	;	0%			13-Jun-24	12-Jul-24	04-Jul-24	02-#ug-24	2'-Feb-24	21-Mar-24 2'	✓	
DC.S3.5775d2	SC4DA System Commissioning Test (Phase 1 MBR Construction)	30	0 09		0%			14-9sy-24	12-Jun-24	14-May-24	12-Jun-24	30-Deo-23	28-Jan-24 0	/ 4 •	
DC.S3.577504	SC4DA System Commissioning Test (Phase 5 Effuent Reuse Construction)	30	0 05		0%			08-Mar-25	0E-Apr-25		07-May-25	27-Dec-24	25-Jan-25 3'		
DC.S3.5775d5	SC4D4 System Commissioning Test (Phase 5 Studge Centriluge Construction)	30	0 05		0%			22-Feb-25	23-Mar-25		03-Apr-25	21-Jan-25	19-Fao-25 1'		
DC.\$3.5775d8	SCADA System Commissioning Test (Phase 5 Studge Devialemic System)	30	0 05		0%			20-\\or-24	19-Dec-24	05-Mar-25	03-Apr-25	12-Dec-24	10-Jan-25 105	r - 🖸 - in in the tricht 🙀 tasse	
DC.83.577547	SCADA System Commissioning Test (Section 2 at PSSPS)	30	0 05		0%			31-Mar-24	23-Apr-24	14-Apr-25	13-May-25	08-Mar-23	04-Apr-23 379		
DC.53.5780	SCADA eculoment installation at SHWSTW	30	0 05	;	0%			21-Sep-24	20-Cc1-24	04-Jan-25	02-Feb-25	13-Oct-24	11-Nov-24 105	~ <u>,</u>	
ELV System (Cl	CTV, ACS, Intercom, Radio)		05	;				07-Aug-24	04-Mar-25	06-Sep-24	03-Apr-25	25-May-24	20-Deo-24 30	/	
DC.53.5735	Equipment Submission and Approval	30	0 05	;	0%			07-Aug-24*	05-Sep-24	06-Sep-24	05-Oct-24	25-Mey-24	23-Jun-24 30	· / · · · · · · · · · · · · · · · · · ·	
DC.S3.5740	Procurament	30	0 05		0%			08-Sep-24	04-Dec-24	06-Oct-24	03-Jan-25	24-Jun-24	21-Sep-24 30		
DC.S3.5750	Fabrication	15	0 05		0%			05-Dec-24	19-Dec-24	04-Jan-25	18-Jan-25	22-Sec-24	08-Oc1-24 30		
DC.S3.5760	Delivery	15	0 05		0%			20-Dec-24	02-Jan-25	19-Jan-25	02-Feb-25	07-Oct-24	2'-Oci-24 30		
DC.S3.5790	E&M Installation Works	60	0 05		0%			04-Jan-25	04-Mar-25	03-Feb-25	03-Apr-25	22-0:1-24	20-Dec-24 30	e 	
O & M Manual &	& Training		05	;				01-Yor-24	04-Hay-25	08-Jan-25	12-May-25	01-Aug-24	12-Dec-24 8		
DC.83.5765a	Submission of draft C&M Manual	60	0 05		0%			01-Nor-24*	30-Dec-24	08-Jan-25	08-Mar-25	01-Aug-24	29-Sep-24 68	ジョン・ショー・ショー	
DC.53.5765b	Training to Client's Staffs	14	0 05		0%			21-Apr-25	04-Hay-25	29-Adr-25	12-May-25	30-Sec-24	13-Oc1-24 8	<u>(</u>	
DC.53.5765c	Submission of interim O&M Manual	60	0 05		0%			31-Dec-24	28-Feb-25*	09-Var-25	07-May-25	14-Oct-24	12-Dec-24 68	╲	+ 1 + + + +
OTHER WORK	S DUE TO CEs		87.0	155		18-Jan-22		18-Jan-22 A	28-Apr-23	08-Var-23	20-May-23	18-Jan-22	18-Apr-23 17		
DC.S3.6010	CE-015. Abandonement Works for Existing 900mm Diameter Pipe Connection to Manhole SHM7003180 and COH7000000	6	1 100	5	100%	13-May-22	20-May-22	13-May-22 A	20-Visy-22 A			13-May-22	20-May-22		
DC.S3.6020	CE-024, Pilot Trial Leak Datection for Existing Manholes in Cheung Chau	162	4 100	5	100%	17-Mar-22	08-Oct-22	17-Mar-22 A	08-Oct-22 A			17-Mar-22	08-Oc+22	(
DC.S3.8030	CE-333, Repair Works of Existing Studge Ramp	316	2 90.5	756	90%	18-Jan-22		18-Jan-22 A	03-Apr-231	08-Mar-23	15-Apr-23	18-Jan-22	16-Jan-23 7		
DC.S3.8040	CE-044, Point Cloud Survey at Chaung Chau	72	3 100		100%	15-Mar-22	17-Jun-22	15-Mar-22 A	17-Jun-22 A			15-Mar-22	17-Jun-22		
DC.S3.8050	CE-350, Uncerground Utilities Survey and Water Intrusion Identification in Cheung Chau	153	2 100	Sa	100%	18-May-22	17-Nov-22	16 May-22 A	17-Nov-22 A			16-May-22	17-Nov-22	-	
DC.S3.8060	CE-065, Additional Drilholes for Preliminary Treatment Facilities in CCSTW (Batch 1) (Total 7 nos)	25	0 100	56	100%	31-Jui-22	30 Aug-22	31-Jul-22 A	30-Aug-22 A			01-Aug-22	3'-Ot122		
DC.S3.6090	CE-085. Additional Drillholes for Preliminary Treatment Facilities in CCSTW (Betch 2) (Total 8 nos.)	30	0 100	5	100%	26-Jui-22	30-Aug-22	28-Jul-22 A	30-Aug-22 A			30-Sep-22	12-Dec-22		
DC.S3.8100	CE-058, Inspection Pit Works for Water Instrusion Indentification in Cheung Chau (Batch 1)	85	0 100	5	100%	20-May-22	36-Aug-22	20 May-22 A	06-Arg-22 A			30-Sep-22	17-Dec-22		
DC.S3.6110	CE-091 , Inspection Pit Works for Water Instrusion Indentification in Cheung Chau (Batch 2)	171	0 71.3	556	33%	30-Sep-22		30-Sep-22.A	29-Apr-23*	20-Mar-23	20-May-23	30-Sec-22	30-Mtr=23 17	→+{ +	
DC.S3.6120	CE-094, inspection Pit Works for Water Instrusion Indentification in Cheung Chau (Batch 3)	109	0 65.0		0%	15-Dec-22		15-Dec-22 A		20-Mar-23		15-Deo-22	19-Apr-23 17	: 👐 1	
COMPLETION	OF SECTION 3		05					13-Ap+25	13-Hay-25	13-Apr-25	13-May-25	20-Dao-24	08-Apr-25 D	. 🗶 🐘 👘 👘 👘 👘 👘 👘 👘 👘	
DC.S3.6070	Pre-handover meeting with DSD/ST2	1	0 05		055			13-Ap+-25	13-Apr-25	13-Apr-25	13-Apr-25	20-Deo-24	20-Dec-24 0	7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
DC.53.6080	Handover meeting with DSD/ST2	1	0 0		0%		-	13-9ey-25	13-Hay-25	13-May-25		19-Jan-25	19-Jan-25 D	L	
DC.S3.6500	Completion of Section 3 (Working Days)	3	0 0		0%		-		13-Hay-25	· ·	13-May-25		08-Apr-25 D	Ŋ 	
SECTION 4		_	01	. İ.		_		08-9ay-25	05-Feb-26	08-May-25	05-Feb-26	19-Jan-25	15-Oc425 0	. /	++++
	ormance Verification (At least 18 months End of S4)		05	i i				08-Vey-25	05-Feb-26	08-Way-25	05-Feb-26	19-Jan-25	15-0c925 0	·/ 	
Prir	nary Baseline	DC/201	9/07 OUTLY	NG ISL	ANDS	S SEWER.	AGE STA	GE2 - UPG	RADING	OF CHEL	ING CHA	U SEWAG	E TREATMENT AND DISPOSAL FACILITIES		Chec Approved
Δ <i>r</i> t	ual Work													30-Nov-22 Rev. 20 J	
							REVISEL) PROGR				oruary 2	(023)	31-Dec-22 Rev. 21 J	IL CL
Rei	maining Work								(Page	12 of 13)			28-Feb-23 Rev. 22 J	
0.4	ical Remaining Work													LUI 00'20 110% 22 J	
Chi															
	seline Milestone														



ivity ID	Activity Name	Ori, Dur (d)	TRA (d)	Time Elapsed %	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev		Total	Amended 2021		2022		2023	2024	2025		2026
					Workdone %							20)	(Rev. 20)	Float	Activities Q1 02	03 04 01	02 03 0	24 Q1	02 03 04	Q1 Q2 Q3	04 01 02 03	Q1 Q1 Q	2 Q3
DC 54.1040	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%				14-9sy-25	04-Sep-25	08-Aug-25	01-Dec-25	08-Apr-25	05-Aug-25	88			1.1.1	\mathbf{X}					
DC S4.1010	External Architectural at MBR Treatment Facilities	90	6	0%	0%			14-May-25	04-Sep-25	08-Aug-25	01-Dec-25	06-Apr-25	05-Aug-25	72			111	- NI-		1.1	-	(L	
DC 84.1100	External Architectural at Sludge Digestor Building	60	4	0%	0%			14-Vay-25	29-Jul-25	15-Sep-25	01-Dec-25	06-Apr-25	27-Jun-25	104			1.1.1				•		
DC S4.1110	External Architectural at Sludge Centrifuge House	60	4	0%	03,			14-Vay-25	29-Jul-25	15-Sep-25	01-Dec-25	08-Apr-25	27-Jun-25	104			111				• • • • • •		
DC \$4.1120	External Architectural at Preliminary Treatment Facilities	90	6	0%	03,			14-9ay-25	04-Sep-25	08-Aug-25	01-Dec-25	08-Apr-25	05-Aug-25	72							•		
DC \$4,1130	External Architectural at Effluent Reuse Building	30	2	DN-	0%			14-9ay-25	20-Jur-25	24-Ost-25	01-Dec-25	09-Apr-25	20-May-25	136							• -		
DC S4.1140	External Architectural at FS Pumproom and Pumproom	30	2	DN-	0%			14-9ay-25	20-Jur-25	24-Oct-25	01-Dec-25	06-Apr-25	20-May-25	136			1.1.1	- 11			• <u>.</u>	1 E	
DC S4.1150	External Architectural at Dangarou'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				- 11			•		
DC S4.1160	External Architectural at Studge Dewatering House	60	4	0%	0%			14-Yay-25	29-Jul-25	15-Sep-25	01-Dec-25	06-Apr-25	27-Jun-25	164			1.1.1						
DC \$4.1170	External Architectural at Administration Building	40	2	0%	0%			14-May-25	03-Jul-25	13-Oct-25	01-Dec-25	06-Apr-25	02-Jun-25	126			111				• -		
Landscaping	Works & Imigation System			0%				14-Vay-25	12-Xov-25	02-Oct-25	05-Feb-28	08-Apr-25	11-Oct-25	85			1.1.1	- 11				T	
DC \$4.1020	The site-wide landscaping works	97	7	0%	0%			11-Jui-25	12-Nov-25	02-Oct-25	05-Feb-28	10-Jun-25	11-Oct-25	70			111				- -	#	
DC 54.1080	Installation of Intgation System	97	7	0%	0%			14-Vay-25	13-Sep-25	02-Oct-25	05-Feb-28	08-Apr-25	14-Aug-25	118								1 E	
Construction	of New Security Fence			0%				14-9sy-25	27-Sep-25	06-Aug-25	05-Feb-28	08-Apr-25	28-Aug-25	106				- 11				1	
DC S4.1030	Derrollion of Existing Boundary Wal	60	4	0%	0%			14-Hay-25	29-Jul-25	06-Aug-25	21-0ct-25	06-Apr-25	27-Jun-25	70			1111			1.1		f	
DC S4.1060	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			111				14 <u>.</u>		
DC S4.1070	Installation of New Security Fence Metail Works	45	3	0%	036			04-Aug-25	27-Sep-25	09-Dec-25	05-Feb-28	04-Jul-25	28-Aug-25	106			1.1.1	1		1.1		₹ E.	
Completion o	if Section 4 (Working Day)			0%				15-Vor-25	05-Feb-26	06-Jan-26	05-Feb-26	16-Sep-25	16-Oct-25	0			111						
DC S4.1041	Pte-handover meeting with DSD/ST2	1	0	0%	0%			15-Nor-25	16-Nov-25	06-Jan-26	06-Jan-26	16-Stp-25	18-Sep-25	52			1.1.1		1.1		4	81 E.	
DC S4.1042	Handover meeting with DSD/ST2	1	0	0%	0%			15-Dec-25	16-Dec-25	05-Feb-28	05-Feb-26	18-Oct-25	16-Oct-25	52		1	1 1 1	<u>т</u> т		1 1		6	
DC 84.1050	Completion of Section 4	0	9	0%	03,				05-Feb-26*		05-Feb-26		16-Oct-25	0			1.1.1	7 I I				⊷ •	
30-month perf	formance verification (remaining 12 months after S4)			D%				05-Feb-26	05-Feb-27	DS-Feb-28	05-Feb-27	15-Oct-25	01-Jan-27	0								1 	-
DC.PV.1010	30-month performance settilication (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	18-Oct-25	15-Oct-26	0			1 1 1	U				÷+	_
DC.PV.1020	Date of 12 months after S4	0	0	DN-	0%				05-Feb-27*		05-Feb-27		01-Jan-27	0				\mathbf{Y}					
DC.S3.5765d10	Submission of final D&M Manual	60	0	DN-	0%			24-Feb-26	24-Apr-26	07-Dec-26	04-Feb-27	13-Dec-25	10-Feb-26	286				2				- د- د-	

Primary Baseline	DC/2019/07 OUTLYING ISLANDS SEWERAGE STAGE2 - UPGRADING OF CHEUNG CHAU SEWAGE TREATMENT AND DISPOSAL FACILITIES	Date	Revision	Chec	. Approved
Actual Work	REVISED PROGRAMME - REV. 22 (28 February 2023)	30-Nov-22	Rev. 20	JL	CL
Remaining Work		31-Dec-22	Rev. 21	JL	CL
•	(Page 13 of 13)	28-Feb-23	Rev. 22	JL	CL
Critical Remaining Work					
Baseline Milestone					

APPENDIX C Calibration Certificates (Air Monitoring)

	50							ALIBRATION JE DATE:
)		Mar	ch 31, 2024
vir	onm	ent	al					
	Y		cate	P	P	P.P.	ation	
	Oe			/			auon	
		C	alibration	Certificati	on Inform	ation	p(1	
Cal. Date:	March 31,	2023	Roots	meter S/N:	438320	Ta:	294	°K
Operator:	Jim Tisch					Pa:	748.54	mm Hg
Calibration	Model #:	TE-5028A	Cali	brator S/N:	3702			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔP	ΔН	1
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1		1	1.3110	4.1	1.50	-
	2	3		1	1.0280	6.7	2.50	-
	3	5		1	0.9340	8.1	3.00	4
	4	7	8	1	0.8680	9.4	3.50	-
		9				10.2	0.00]
				Data Tabula	tion			
	Vstd	Qstd	√∆H(<u>Pa</u>	T)(<u>Tstd</u>)		Qa	√∆н(та/Ра)	
	(m3)	(x-axis)	(y-ax	(is)	Va	(x-axis)	(y-axis)	
	0.9929	0.7573	1.22	37	0.9945	0.7586	0.7676	4
	0.9894	0.9624	1.57		0.9910	0.9641	0.9909	4
	0.9875	1.0573	1.73		0.9892	1.0591	1.0855	-
	0.9858	1.1357 1.4844	1.86		0.9874	1.1376	1.1725	4
	0.5707	m=	1.680		0.5704	m=	1.05214	4
	QSTD	b=	-0.04		QA	b=	-0.02731	1
		r=	0.999	94		r=	0.99994]
				Calculation]
)/Pstd)(Tstd/T	a)		ΔVol((Pa-Δ	P)/Pa)	
	Qstd=	Vstd/∆Time	For subsequ	ent flow rat	Qa= te calculation	Va/∆Time		
	Qstd=	1/m (_ AH	Pa V Tstd	- <u>)</u> -b)	1	11	н(Та/Ра))-b)	
		// V	Pstd / Ta	11-1		-/([]]]]
Tstd		Conditions °K		Γ		RECA	LIBRATION	
Pstd		mm Hg					nnual raceliber t	an nor 1000
ALL collines		(ey	n H2O)				nnual recalibration Regulations Part	
	or manomet						, Reference Meth	
	bsolute tem						ended Particulat	
Pa: actual b	arometric pr						re, 9.2.17, page 3	
b: intercept							,, poor .	

Fisch Environmental, Inc. L45 South Miami Avenue /illage of Cleves, OH 45002 <u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009



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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

		Site I	nformation		
Location:	The admin building inside the construction site	Site ID:	A1a	Date:	08-Dec-2023
Serial No:	1048	Model:	TE-5170X	Operator:	Andy Li

	Ambie	nt Condition	
Actual Pressure during Calibration (P _a) (mm Hg):	757.2	Actual Temperature during Calibration (T _a) (deg K):	297.1

Calibration Orifice

Model:	TE-5028A	Slope (m _c):	1.68024
Serial No.:	4167	Intercept (b _c):	-0.04353
Calibration Due Date:	31-Mar-24	Corr. Coeff:	0.99994

Calibration Data	
------------------	--

Plate or	∆H₂O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m ³ /min)	(chart)	(corrected)
18	8.00	1.709	59.0	58.98
13	6.00	1.483	54.0	53.98
10	5.00	1.356	51.0	50.98
7	2.30	0.928	43.0	42.99
5	2.00	0.867	40.0	39.99

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

m=

21.5495 b=

Calculations

22.0428

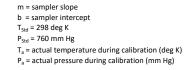
 $\begin{aligned} &Qa = 1/m_c^*[Sqrt~(\Delta H_2O^*(P_a/P_{Std})^*(T_{Std}/T_a)) - b_c] \\ &IC = I^*(Sqrt~(P_a/P_{Std})^*(T_{Std}/T_a)) \end{aligned}$

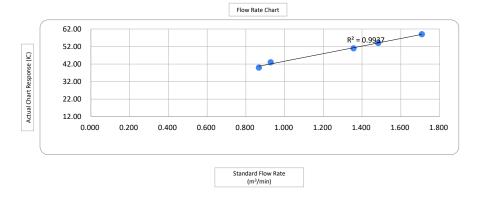
Qa = actual flow rate IC = corrected chart response

I = actual chart response

m_c = calibrator slope

 b_c = calibrator intercept





Checked by: Tandy Tse Senior Consultant, Environmental

Date: 08-Dec-2023

Corr. Coeff=

0.9969



aurecon

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site	Information

Location:	The existing ourtfall pumping station inside the construction site	Site ID:	A2a	Date:	08-Dec-2023
Serial No:	1085	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition					
Actual Pressure during Calibration (P _a) (mm Hg):	757.2	Actual Tempe Calibration (T		297.1	
Calibration Orifice					
Model:	TE-5	028A	Slope (m _c):	1.68024	

Serial No.: 3702 Intercept (b _c): -0.04353 Calibration Due Date: 31-Mar-24 Corr. Coeff: 0.99994	meden	TE SOLOTI	chope (m _c).	2100021
Calibration Due Date: 31-Mar-24 Corr. Coeff: 0.99994	Serial No.:	3702	Intercept (b _c):	-0.04353
	Calibration Due Date:	31-Mar-24	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	10.00	1.907	56.0	55.98			
2	9.00	1.811	54.0	53.98			
3	8.00	1.709	51.0	50.98			
4	6.40	1.531	48.0	47.98			
5	4.20	1.245	40.0	39.99			

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

m= 23.8761

Calculations

10.6122

b=

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

Qa = actual flow rate IC = corrected chart response I = actual chart response

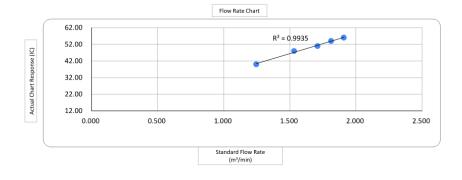
m_c = calibrator slope

b_c = calibrator intercept

m = sampler slope b = sampler intercept T_{Std} = 298 deg K P_{Std} = 760 mm Hg $T_a = actual temperature during calibration (deg K)$ $P_a = actual pressure during calibration (mm Hg)$

Corr. Coeff=

0.9967



Checked by F.C. Tsang Jack Leavy Environemntal Team Leader

Date: 08-Dec-2023



urecon 0

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

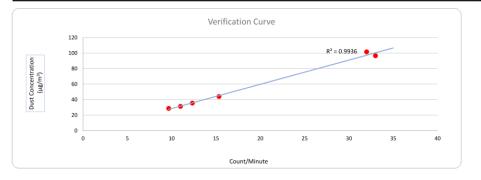
		Infor	mation of	Calibra	ated Equipement	
Verification Test Date:	8-Apr-23	to	9-Apr-23		Next Verification Test Date:	8-Apr-24
Unit-under-Test- Model No.:		Sibata LD-5R				
Unit-under-Test Serial No.:		2Y6549				
Our Report Refrence No.:	F	RPT-23-HVS-004	6	_		
Calibration Location:				Emax		
-						

Standard Equipment Information						
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator				
Standard Equipment Model No.:	TE-5170X	TE-5028A				
Equipment serial no.:	1049	3702				
Last Calibration Date:	8-Apr-23	31-Mar-23				
Next Calibration Date:	7-Jun-23	30-Mar-24				

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	8/4/2023	7339.85	7342.85	180.00	2760	15	44
2	8/4/2023	7342.85	7345.85	180.00	2220	12	36
3	8/4/2023	7345.85	7348.85	180.00	5940	33	97
4	9/4/2023	7349.74	7352.74	180.00	1740	10	29
5	9/4/2023	7352.76	7355.76	180.00	1980	11	31
6	9/4/2023	7355.77	7358.77	180.00	5760	32	102

Linear Regression of y on x

Slope, K factor: 3.1227 Intercept: <u>-2.7291</u> *Correlation Coefficient,R: 0.9968 Verification Test Result: Strong Correlation, Results were accepted. * If the Correlation Coefficient, R is <0.5. Checking and Re-verification are req



Operated By:

Andy Li Project Technician, Environmenta

Date: 10-04-2023

10-04-2023

Date:

Tandy Tse

Checked By:

Senior Consultant, Environmenta



urecon

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

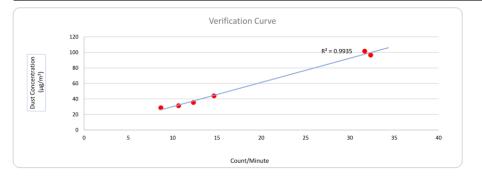
Information of Calibrated Equipement								
Verification Test Date:	8-Apr-23	to	9-Apr-23	_	Next Verification Test Date:	9-Apr-24		
Unit-under-Test- Model No.:		Sibata LD-5R						
Unit-under-Test Serial No.:		2Y6550						
Our Report Refrence No.:	I	RPT-23-HVS-0047	7	-				
Calibration Location:				Emax				
						-		

	Standard Equipment Informa	tion
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1049	3702
Last Calibration Date:	8-Apr-23	31-Mar-23
Next Calibration Date:	7-Jun-23	30-Mar-24

		Duration				Calibrated Equipement	Results from Standard Equipment		
Verification 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	8/4/2023	7339.85	7342.85	180.00	2640	15	44		
2	8/4/2023	7342.85	7345.85	180.00	2220	12	36		
3	8/4/2023	7345.85	7348.85	180.00	5820	32	97		
4	9/4/2023	7349.74	7352.74	180.00	1560	9	29		
5	9/4/2023	7352.76	7355.76	180.00	1920	11	31		
6	9/4/2023	7355.77	7358.77	180.00	5700	32	102		

Linear Regression of y on x

Slope, K factor: 3.1184 *Correlation Coefficient,R: Intercept: -1.0880 <u>0.9967</u> Verification Test Result: Strong Correlation, Results were accepted. * If the Correlation Coefficient, R is <0.5. Checking and Re-verification are req



Operated By:

Andy Li Project Technician, Environmental

Date: 10-04-2023

Date:

10-04-2023

U Tandy Tse

Checked By:

Senior Consultant, Environmental

APPENDIX D Monitoring Data (Air)

NA

Location:	A1a
Monitoring Period:	December 2023
Parameter:	TSP 1-hour
Major Dust Source	Construction activities and daily operation of the sewerage treatment plant

Other Factors

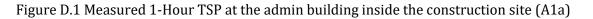
3rd Hour 1st Hour 2nd Hour Date Weather Start Time (µg/m³) $(\mu g/m^3)$ $(\mu g/m^3)$ 66 69 62 5/12/2023 Sunny 14:12 11/12/2023 Sunny 14:46 71 69 58 18/12/2023 15:06 76 67 72 Sunny 65 60 66 27/12/2023 Fine 13:57 Average 67 58 - 76 Range

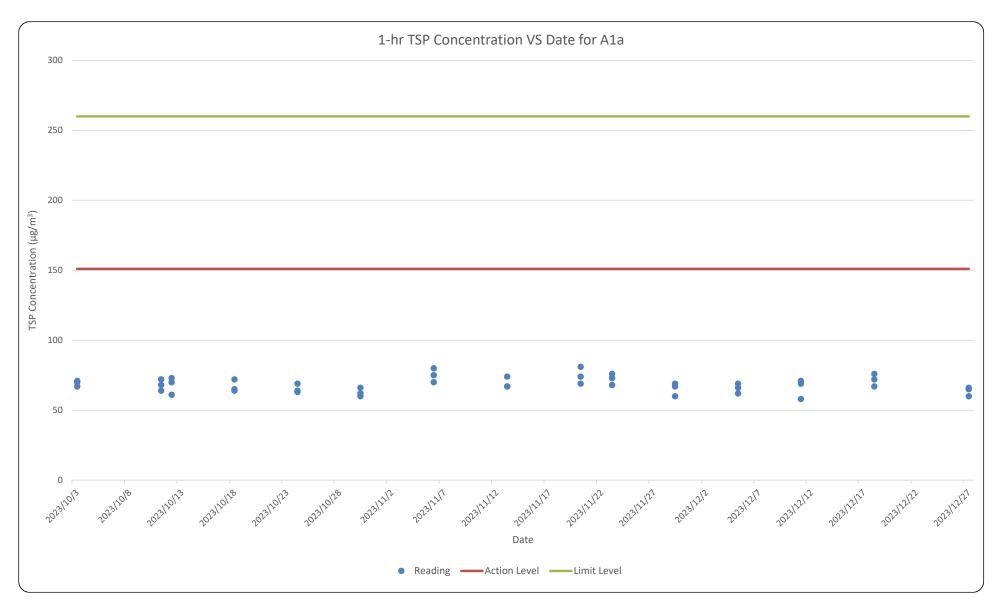
Location:	A2a
Monitoring Period:	December 2023
Parameter:	TSP 1-hour
Major Dust Source	Construction activities and daily operation of the sewerage treatment plant

Other Factors

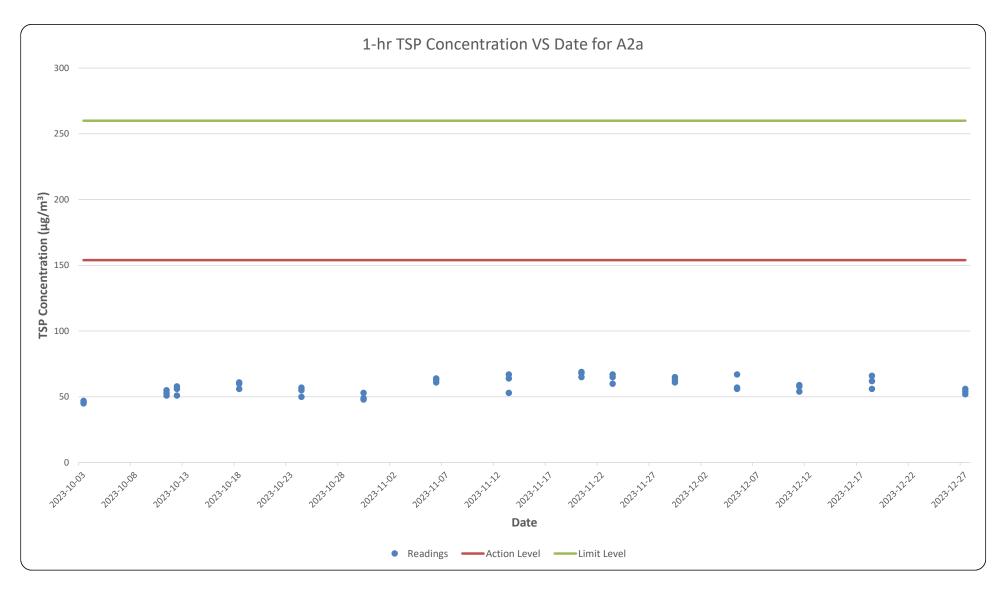
NA

Date	Weather	Start Time	1 st Hour (μg/m³)	2 nd Hour (µg/m³)	3 rd Hour (µg/m³)
5/12/2023	Sunny	13:57	67	57	56
11/12/2023	Sunny	14:34	54	58	59
18/12/2023	Sunny	14:40	56	62	66
27/12/2023	Fine	13:40	54	52	56
		Average		58	
		Range		52 - 67	









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)	(m ³)	Initial	Final	(g)	(µg/m³)
05/12/2023	21.6	1016.6	Sunny	297902	299386	1484	0.94	1401	2.6520	2.6832	0.0312	22
11/12/2023	24.5	1015.4	Sunny	299386	300881	1495	0.93	1393	2.6821	2.8233	0.1412	101
19/12/2023	17.1	1021.7	Sunny	300881	302356	1475	1.06	1569	2.6750	2.8089	0.1339	85
27/12/2023	19.4	1023.2	Fine	302356	303893	1537	0.96	1482	2.7015	2.8343	0.1328	90
											Average	75

Range 22 – 101

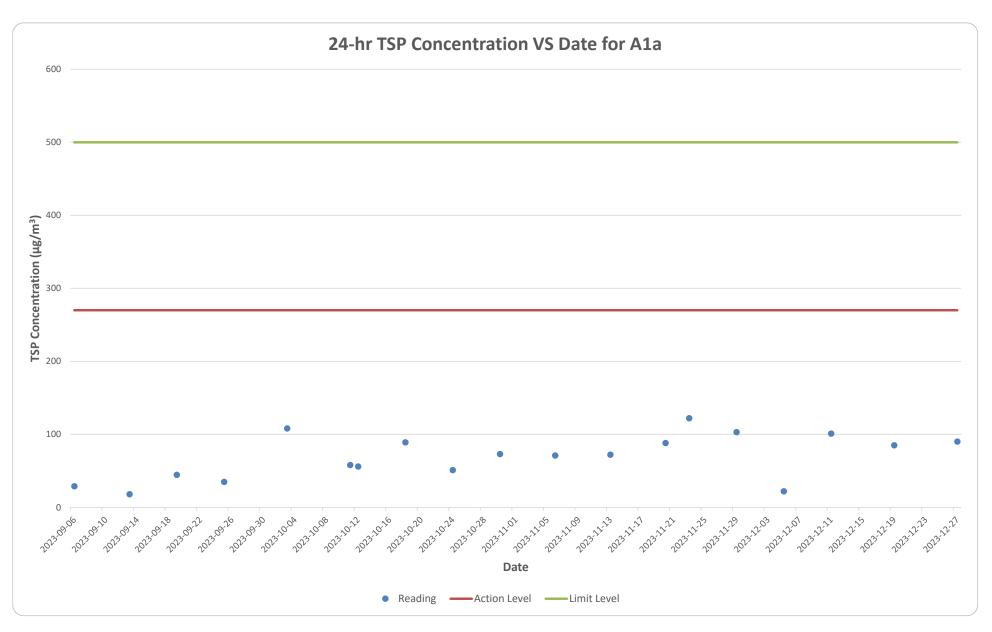
Location:	A2a
Parameter:	TSP 24-hour
Major Site Activities	Construction activities and daily operation of the sewerage treatment plant
Major dust source	Routine operation of the Sewage Treatment Plant
Other Factors	NA

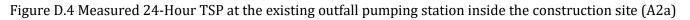
Start Date	Avg Air Temp	Avg Atmospheric Pressure	Weather Condition	Elapse	e Time	Sampling Time	Flow Rate	Standard Air Volume	Filter W	eight (g)	Particulate weight	Conc.
	(°C)	(mm Hg)		Initial (min)	Final (min)	Actual (min)	(m³/min)	(m ³)	Initial	Final	(g)	(µg/m³)
05/12/2023	21.6	1016.6	Sunny	516599	518087	1488	1.33	1980	2.6628	2.8996	0.2368	120
11/12/2023	24.5	1015.4	Sunny	518087	519584	1497	1.32	1976	2.6830	2.8404	0.1574	80
18/12/2023	17.1	1021.7	Sunny	519584	521028	1444	1.44	2078	2.6794	2.8323	0.1528	74
27/12/2023	19.4	1023.2	Fine	521028	522567	1539	1.43	2207	2.6657	2.7714	0.1057	48
											Average	81

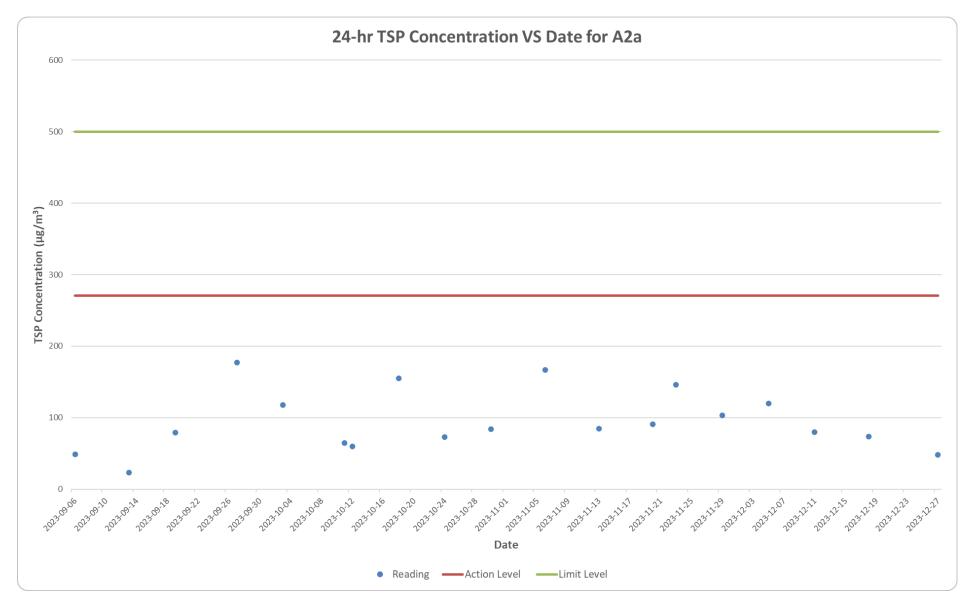
Range 48 - 120

Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 29th EM&A Report – December 2023

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







APPENDIX E Calibration Certificates (Noise)



Certificate of Calibration

for

Description:	Sound Level Calibrator
Manufacturer:	RION
Type No.:	NC-75
Serial No.;	34724244

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

□ Outside

Calibrated by:

the allowable tolerance.

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

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

Date of receipt: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibration Technician

Date of issue: 3 August 2023

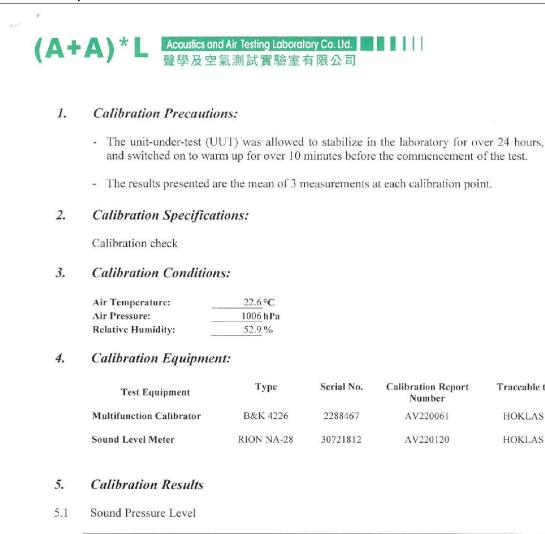
Certificate No.: APJ23-049-CC004

Certified by: Mr. Ng Yan Wa Laboratory Manager



Page 1 of 2

Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street , Fo Tan, Shatin, N.T., Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com



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

Note:

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



Traceable to

HOKLAS

HOKLAS

Page 2 of 2

Certificate No.: APJ23-049-CC004

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Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	971 (Serial No.: 96063)
Microphone:	ACO 7052E (Serial No.:79778)
Preamplifier:	SVANTEK SV 18 (Serial No.:97276)

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: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by: Certified by: Calibration Technician Mr. Ng Yan Wa Laboratory Manager Date of issue: 3 August 2023 Page 1 of 4 Certificate No.: APJ23-049-CC002 Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street , Fo Tan, Shatin, N.T., Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946

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

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E-mail: inquiry@aa-lab.com



1. Calibration Precaution:

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

2. Calibration Conditions:

Air Temperature:	22.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	52.9 %

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. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25.0-124.2	dBA	SPL	Fast	94	1000	93.7	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		93.7	Ref
25.0-124.2	dBA	SPL	Fast	104	1000	103.7	±0.3
				114		113.7	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Appl	lied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25.0-124.2 dBA SPL	SDI	Fast	94	1000	93.7	Ref	
	uBA	SFL	Slow	94	1000	93.7	±0.3

Page 2 of 4 $\Delta + \Delta$

Certificate No.: APJ23-049-CC002

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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			App	Applied value		IEC 61672 Class 1				
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB			
					31.5	94.3	±2.0			
					63	94.2	±1.5			
					125	94.1	±1.5			
					250	94.1	±1.4			
25.0-124.2	dB	SPL	Fast	94	500	94.0	±1.4			
								1000	93.7	Ref
			2000	93.7	±1.6					
			4000	95.1	±1.6					
					8000	91.4	+2.1; -3.1			

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	55.0	-39.4 ±2.0
					63	68.1	-26.2 ±1.5
					125	78.1	-16.1±1.5
					250	85.4	-8.6±1.4
25.0-124.2 dBA SPL	Fast	94	500	90.7	-3.2 ± 1.4		
					1000	93.7	Ref
			2000	94.9	$+1.2 \pm 1.6$		
			4000	96.2	$\pm 1.0 \pm 1.6$		
			8000	90.5	-1.1+2.1; -3.1		

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.3	-3.0 ±2.0
	25.0-124.2 dBC SPL			63	93.4	-0.8±1.5	
		Fast	Fast 94	125	94.0	-0.2±1.5	
				250	94.8	-0.0 ± 1.4	
25.0-124.2				500	94.0	-0.0±1.4	
					1000	93.7	Ref
				2000	93.5	-0.2 ±1.6	
			4000	94.4	-0.8±1.6		
				8000	88.6	-3.0 +2.1: -3.1	

Certificate No.: APJ23-049-CC002



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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	± 0.10
	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.: APJ23-049-CC002



Page 4 of 4

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APPENDIX F Monitoring Data (Noise)

Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 29th EM&A Report – December 2023

Location:	N2a
Monitoring Period:	December 2023
Parameter:	Noise
Major Noise Source:	Construction activities and daily operation of the sewerage treatment plant
Other Factors	NA

Date	Weather	Start Time	\mathbf{L}_{eq}	L ₁₀	L ₉₀	
6/12/2023	Sunny	15:00	69.7	71.2	66.3	
12/12/2023	Sunny	15:42	72.1	74.1	69.3	
19/12/2023	Sunny	15:44	71.0	72.4	68.5	
28/12/2023	Fine	15:45	72.4	75.6	67.6	
Average			71.4			
Range			69.7 - 72.4			

NA

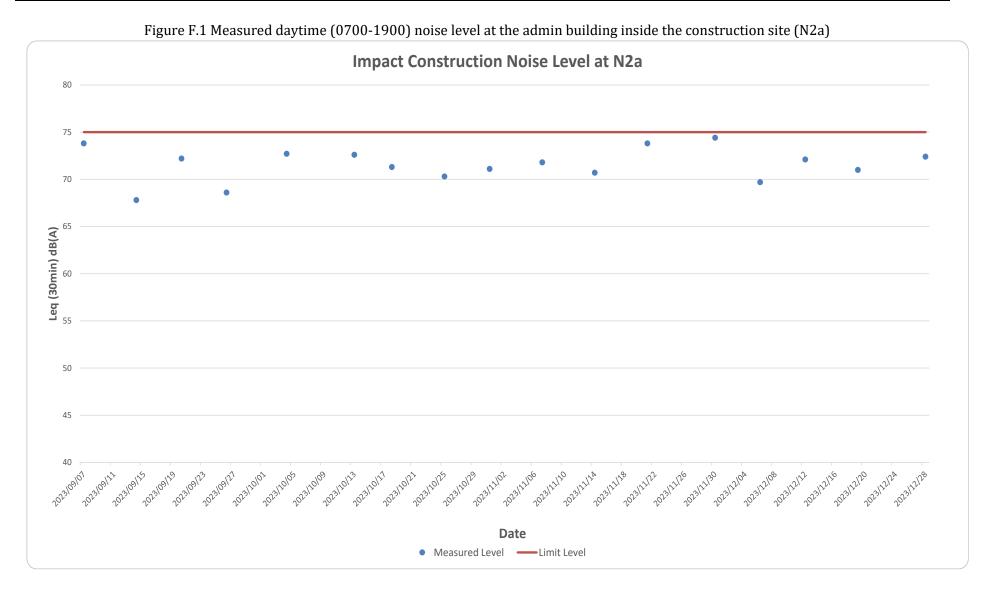
Other Factors

Location:	N3a
Monitoring Period:	December 2023
Parameter:	Noise
Major Noise Source:	Construction activities and daily operation of the sewerage treatment plant

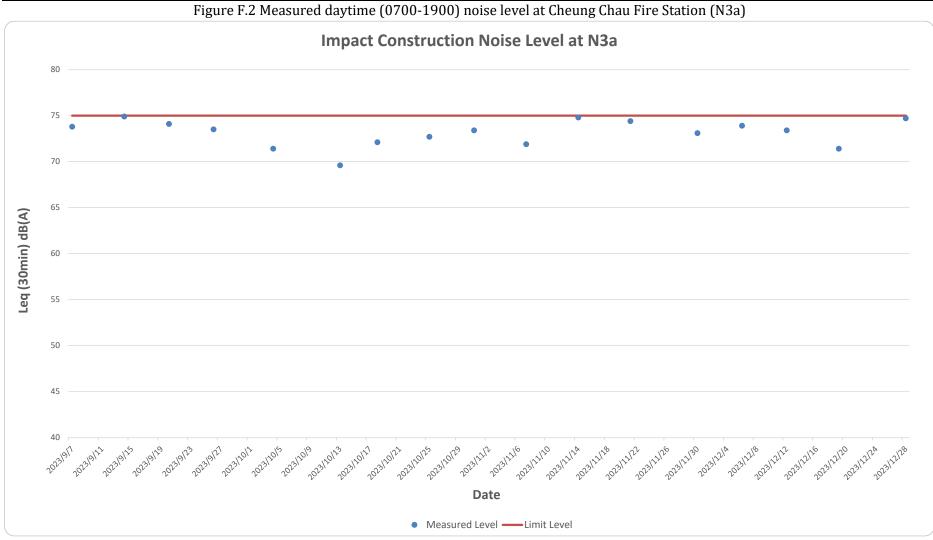
Date	Weather	Start Time	$\mathbf{L}_{\mathbf{eq}}$	L ₁₀	L ₉₀
6/12/2023	Sunny	13:57	73.9	76.8	53.0
12/12/2023	Sunny	13:31	73.4	76.6	54.9
19/12/2023	Sunny	14:00	71.4	74.1	54.3
28/12/2023	Fine	13:51	74.7	77.2	60.8
Average			73.5		
Range			71.4 - 74.7		

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 29th EM&A Report –December 2023



Contract No. DC/2019/07 Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 29th EM&A Report –December 2023



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?
			measures :	D	с	0	
Construction Phase (L	Jpgrading Works of Cheung Chau STW and Pak She SPS	(DP Component))				•	<u>\</u>
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?
				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		V		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		1		EIA, Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather	Air Quality (fugitive dust) Control during Construction Phase	Contractors		V		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	Use of frequent watering for particularly dusty construction areas and areas close to ASRs	Air Quality (fugitive dust) Control during Construction Phase	Contractors		V		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		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 of implementation of Measures			What requirements or standards for the measures to achieve?
			measures?	D	С	0	
S.3.10.1	Where a site boundary adjoins a road, streets or other areas accessible to the public, hoarding of not less than 2.4 m high from ground level should be provided along the entire length except for a site entrance or exit	Air Quality (fugitive dust) Control during Construction Phase	Contractors		V		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	Stockpiles of imported material kept on site shall be contained within hoarding, dampened and/or covered during dry and windy weather	Air Quality (fugitive dust) Control during Construction Phase	Contractors		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 measures?	impl	Location / Timing of implementation of Measures		What requirements or standards for the measures to achieve?
			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 measures?	Location / Timing of implementation of Measures			What requirements or standards for the measures to achieve?
				D	С	0	
S.3.10.1	Good site practices for concrete batching plantEvery stock of more than 20 bags of cement or dry pulverized fuel ash(PFA) should be cover entirely by impervious sheeting or placed in an area sheltered on the top and the sides.Cement or dry PFA delivered in bulk should stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with effective fabric filter or equivalent air pollution control system (Maximum TSP emission factor of Silos and Mising Tower: 50mg/m³)	Air Quality (fugitive dust) Control during Construction Phase	Contractors		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 29th EM&A Report – December 2023

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	Ipgrading 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

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Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 29th EM&A Report – December 2023

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

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
		ineasures !	D	С	0	measures to achieve?
pgrading Works of Cheung Chau STW and Pak She SPS (DP Com	ponent) and Sewers Worl	ks (non-DP Compo	nent))		•	1
 Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: Perimeter channels are to be installed in works areas to intercept runoff at the site boundary prior to the commencement of any earthworks. Surface runoff should be discharged into storm drains via sand/ silt removal facilities with an adequate capacity; Works programme should be designed to minimize works areas to reduce soil exposure and site runoff; Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; Works programme should be carefully planned to minimize the scale of soil excavation during the rainy season; Earthworks surfaces should be well compacted and subsequent permanent works or surface protection measures should be carried out immediately; All vehicles should be washed before they leave the construction site to avoid earth, mud, and debris being carried 	Water Quality Control	Contractors		~		 WPCO; TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water
	Mitigation Measures ograding Works of Cheung Chau STW and Pak She SPS (DP Com Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: • Perimeter channels are to be installed in works areas to intercept runoff at the site boundary prior to the commencement of any earthworks. Surface runoff should be discharged into storm drains via sand/ silt removal facilities with an adequate capacity; • Works programme should be designed to minimize works areas to reduce soil exposure and site runoff; • Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; • Works programme should be carefully planned to minimize the scale of soil excavation during the rainy season; • Earthworks surfaces should be well compacted and subsequent permanent works or surface protection measures should be carried out immediately; • All vehicles should be washed before they leave the	Mitigation Measures recommended measures & main concerns to address ograding Works of Cheung Chau STW and Pak She SPS (DP Component) and Sewers Worl Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: Water Quality Control 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; Water Quality Control • Works programme should be designed to minimize works areas to reduce soil exposure and site runoff; Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; Works programme should be carefully planned to minimize the scale of soil excavation during the rainy season; • Earthworks surfaces should be well compacted and subsequent permanent works or surface protection measures should be carried out immediately; • All vehicles should be washed before they leave the construction site to avoid earth, mud, and debris being carried off from the site. Wash-water should be treated to remove	Mitigation Measures recommended measures & main concerns to address implement the measures? egrading Works of Cheung Chau STW and Pak She SPS (DP Component) and Sewers Works (non-DP Compo Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: Water Quality Control Contractors Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: Water Quality Control Contractors Preimeter 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; Water Quality Control Contractors • Works programme should be designed to minimize works areas to reduce soil exposure and site runoff; Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; Works programme should be carefully planned to minimize the scale of soil excavation during the rainy season; Earthworks surfaces should be well compacted and subsequent permanent works or surface protection measures should be carried out immediately; • All vehicles should be washed before they leave the construction site to avoid earth, mud, and debris being carried off from the site. Wash-water should be treated to remove	Mitigation Measures recommended measures & main concerns to address implement the measures? the measures? ograding Works of Cheung Chau STW and Pak She SPS (DP Component) and Sewers Works (non-DP Component) Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: Water Quality Control Contractors • 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; Water Quality Control Contractors • Works programme should be designed to minimize works areas to reduce soil exposure and silt runoff; Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; Works programme should be carefully planned to minimize the scale of soil excavation during the rainy season; Earthworks surfaces should be well compacted and subsequent permanent works or surface protection measures should be carried out immediately; All vehicles should be washed before they leave the construction site to avoid earth, mud, and debris being carried off from the site. Wash-water should be treated to remove	Implement the measures implement the measures implement the measures implement the measures opgrading Works of Cheung Chau STW and Pak She SPS (DP Component) and Sewers Works (non-DP Component)) D C Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: Water Quality Control Contractors √ • 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; Water Quality Control Contractors √ • Works programme should be designed to minimize works areas to reduce soil exposure and site runoff; Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; 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 of from the site. Wash-water should be treated to remove	Mitigation Measures recommended measures & main concerns to address implement the measures? inthe measures? D C 0 orgrading Works of Cheung Chau STW and Pak She SPS (DP Component) and Sewers Works (non-DP Component)) Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: Water Quality Control Contractors V Practices outlined in ProPECC PN 1/94 Construction Site Drainage are recommended, as highlighted below: Water Quality Control Contractors V Precimeter 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; Water Quality Control Contractors V • Works programme should be designed to minimize works areas to reduce soil exposure and site runoff; Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; Works programme should be carefully planned to minimize the scale of soil excavation during the rainy season; Earthworks surfaces should be well compacted and subsequent permanent works or surface protection measures should be carried out immediately; All vehicles should be washed before they leave the construction site to avoid earth, mud, and debris being carried off from the site. Wash-water should be treated to remove

Contract No. DC/2019/07

Environmental Monitoring Works for Outlying Islands Sewerage Stage 2 – Upgrading of Cheung Chau Sewage Treatment and Disposal Facilities 29th EM&A Report – December 2023

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		~		 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	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		1		Waste Disposal Ordinance
S.6.6.1	Regular cleaning and maintenance programme for drainage systems, pumps and oil interceptors.	Waste management during construction	Contractors		\checkmark		Waste Disposal Ordinance

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main	nended implement the		to impl measu		What requirements or standards for the	
		concerns to address		D	с	ο	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		V		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.		Contractors		\checkmark		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		\checkmark		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		\checkmark		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		1		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		\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		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.	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?	When to implement the measures?			What requirements or standards for the
		concerns to address	ineasures :	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		V		Waste Disposal Ordinance
EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measure & main concerns to address	Who to implement the measures?		n to imp e measu C		What requirements or standards for the measures to achieve?
Construction Phase	se (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	Who to implement the measures?		to impl measur C		What requirements or standards for the measures to
		address	incusures :		C	0	achieve?
Table 11.8	Protection to Existing Trees within Works Areas All existing trees which are not in direct conflict with the proposed works will be retained. The existing trees proposed to be retained shall be properly maintained and protected by means of fencing to prevent vehicular or pedestrian intrusion that may potentially damage tree canopies, trunks and root zones. Detailed tree protection specifications shall be allowed and included in the Contract Specification, which specifying the tree protection requirement, submission and approval system, and tree monitoring system. For trees with high preservation value, individual tree assessments and continuous tree monitoring reports shall be provided by a certified Arborist, Landscape Architect or related professional during construction. All retained trees shall be recorded photographically at the commencement of contract. Root pruning to the retained trees should be prohibited. Retained trees should be well-preserved by setting up a tree protection zone throughout the construction period for protecting the retained trees from damages. To maximize protection to existing trees and ground vegetation, construction contracts may designate "No-intrusion Zone" to various areas within the site boundary with rigid and durable fencing for each individual no-intrusion zone. The contractor should close monitor and restrict the site working staff not to enter the "no-intrusion zone", even for non-direct construction activities and storage of equipment.	Landscape mitigation measures	DSD and Contractors	~	~		EIA, Annex 10 and Annex 18 of EIAO- TM

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

Reporting Period	Environmental Complaints Statistics						
Reporting 1 eriou	Frequency	Nature	Follow-up Actions				
1 December 2023 - 31 December 2023	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	Envir	Environmental Summons Statistics						
Keporting Terrou	Frequency	Nature	Follow-up Actions					
1 December 2023 31 December 2023	0	N/A	N/A					
Cumulative	0	N/A	N/A					

Statistical Summary of Environmental Prosecution

	Enviror	nmental Prosecution Sta	atistics
Reporting Period	Frequency	Nature	Follow-up Actions
1 December 2023 31 December 2023	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)



			ading of Cheung Chau Sewage Collec Dec-23	· · ·		
un	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
			24-hour TSP monitoring for A1a &			
			A2a			
			1-hour TSP monitoring for A1a &			
			A2a			
	4	5	6	7	8	9
			Daytime Noise monitoring for N2a			
		A2a	& N3a			
		1-hour TSP monitoring for A1a &				
		A2a				
0	11	12	13	14	15	16
		Daytime Noise monitoring for N2a				
	A2a 1-hour TSP monitoring for A1a &	& N3a				
	1-hour TSP monitoring for A1a & A2a					
	AZa					
1	18	19	20	21	22	23
	24-hour TSP monitoring for A2a	* 24-hour TSP monitoring for A1a				
	1-hour TSP monitoring for A1a &	Daytime Noise monitoring for N2a				
	A2a	& N3a				
1						
	25	26	27	28	29	30
			24-hour TSP monitoring for A12.8	Daytime Noise monitoring for N2a		
			A2a	& N3a		
			1-hour TSP monitoring for A1a &	6.155		
			A2a			
L						
emarks:						
	nitoring (07:00-1900)					



			Jan-24			
un	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
		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
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a		24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a		
4	15	16	17	18	19	20
			24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a		
21	22	23	24	25	26	27
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a					
28	29	30	31	1 Feb		
			24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a		