





## Contract No. DC/2019/07

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

# 21st Monthly Environmental Monitoring and Audit Report -April 2023

				Document No.		
ASCL	/	210168173	/	EMA042023	/	2
Publisher		Project Code		Sequential No.		Revision Index

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Date:	04/05/2023	11/05/2023	11/05/2023

## **REVISION HISTORY**

REV.	<b>Description of Modification</b>	DATE
0	First Issue for Comments	08 May 2023
1	Updated based on IEC's comment	10 May 2023
2	Updated based on IEC's comment	11 May 2023

## CONTENTS

Exe	cutive Summary	4
1.	Introduction	7
2.	Air Quality	. 11
	Noise	
	Water Quality	
5.	Waste Management	. 23
	Landscape & Visual	
7.	Site Inspection Audit	. 25
	Conclusion	

Page

- Appendix A Location Plan and Noise and Dust Monitoring Stations
- Appendix B <u>Construction Programme</u>
- Appendix C <u>Calibration Certificates (Air Monitoring)</u>
- Appendix D <u>Monitoring Data (Air)</u>
- Appendix E <u>Calibration Certificates (Noise)</u>
- Appendix F <u>Monitoring Data (Noise)</u>
- Appendix G Implementation Schedule
- Appendix H
   Summary of All Complaints Received, Notification of Summons and Successful Prosecutions
- Appendix IEM&A Monitoring Schedules in the Reporting Period and the Next Reporting<br/>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 21<sup>st</sup> 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 April to 30 April 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
  - Pre-bored Works for Sheet Piles Installation for Subsequent ELS at CCSTW
  - Repair Works for Existing Sludge Ramp
  - Excavation and Lateral Support (ELS) at CCSTW
  - Construction of Sludge Digester Building
  - Internal Finishing
  - Construction of MBR Treatment Facilities
  - Reinstatement of Damaged Gate and Column
- A.5 The major environmental impacts brought by the above construction works include:
  - Construction dust and noise generation from construction works and piling works
  - Wastewater generated from construction activities
  - Waste generation from the construction activities
- A.6 The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
  - Dust suppression by regular wetting and water spraying for construction works
  - Reduction of noise from equipment and machinery on-site
  - Mitigation measures preventing seepage of muddy water
  - Sorting and storage of general refuse and construction waste
- A.7 Five (5) sessions of air monitoring were carried out at all designated monitoring locations. No exceedance of Action or Limit Level was recorded.
- A.8 Four (4) sessions of noise monitoring were carried out at all designated monitoring locations. No exceedance of Action or Limit Level was recorded.
- A.9 Results of the monitoring for air quality and airborne noise are given in **Table A** and **Table B** as follows:

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		Dust in µg	g/m <sup>3</sup>	
Location	Avei	rage	e Range	
	TSP-1hr	TSP-24hr	TSP-1hr	TSP-24hr
A1a	73	57	47 - 139	49 - 71
A2a	55	43	40 - 72	35 - 52

## Table A – Monitoring Results (Dust)

## Table B - Monitoring Results (Noise)

	Noise in o	dB(A)
Location	Average	Range
	L <sub>eq (30 min)</sub> (7:00-19:00)	Leq (30 min) (7:00-19:00)
N2a	73.5	73.0 - 74.3
N3a	73.1	70.3 - 74.9

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

- A.10 According to Section 4.3.3 of the EM&A Manual, Site inspection shall be carried out by the ET and attentions shall be paid to the mitigation measures recommended for water pollution control. Weekly site inspections were carried out and no non-compliance was spotted during the reporting month.
- A.11 Waste management mitigation measures were properly implemented in the reporting period.
- A.12 For cultural heritage impact, as this Project does not involve proposed sewers works, according to Section 6.1.5 of the EM&A Manual, no EM&A requirement is considered necessary during the construction and operational phase of upgrading of Cheung Chau STW and Pak She SPS.
- A.13 The recommended landscape and visual mitigation measures were properly implemented in the reporting period.
- A.14 Weekly site inspection of the construction work by ET were carried out on 04, 11, 18 and 24 April 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:

Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 21<sup>st</sup> EM&A Report – April 2023

Nature	Number	Issue Date	Expiry Date
Environmental Permit	EP-488/2014/A	13/05/2021	N/A
Notification pursuant to	462303	26/11/2020	N/A
Air Pollution Control			
(Construction Dust)			
Regulation			
Waste Disposal Billing	7039094	7/12/2020	N/A
Account			
Waste Disposal (Vessel)	7040870	04/04/2022	10/07/2023
Billing Account			
Waste Disposal (Vessel)	7040870	28/12/2022	10/04/2023
Billing Account			(Expired)
Permit issued under the	EP/MD/23-112	07/03/2023	06/09/2023
Dumping At Sea			
Ordinance			
Permit issued under the	EP/MD/23-113	11/03/2023	06/04/2023
Dumping At Sea			(Expired)
Ordinance			
Chemical Waste	5213-920-B2500-	31/12/2020	N/A
Producer	05		
Effluent Discharge	WT00038597-	20/08/2021	31/08/2026
Licence under Water	2021		
Pollution Control			
Ordinance			
Construction Noise	GW-RS0185-23	05/03/2023	28/05/2023
Permit			

## Table C – Summary of Permit / Licences

## **1.** INTRODUCTION

## **1.1. BACKGROUND**

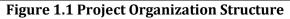
- 1.1.1. Drainage Services Department (DSD) has contracted Build King Civil Engineering Limited (BK) to carry out the Outlying Islands Sewerage Stage 2 Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities under Contract No. DC/2019/07.
- 1.1.2. Acuity Sustainability Consulting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

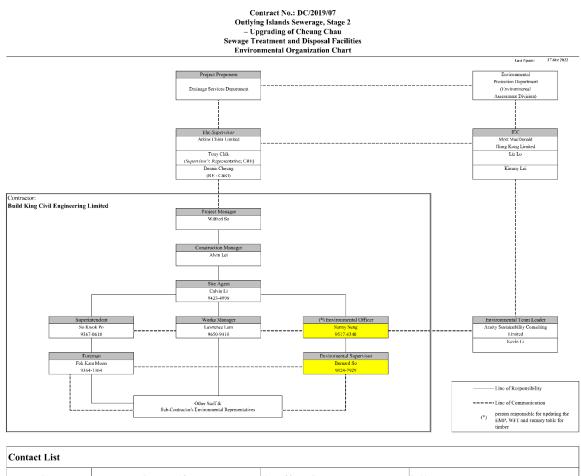
## **1.2. PROJECT DESCRIPTION**

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

## **1.3. PROJECT ORGANISATION STRUCTURE**

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





Party	Department / Company	Name of Contact Person	Position
Project Proponent	Drainage Services Department		
The Supervisor	Atkins China Limited	Dennis Cheung 5969-0300	Resident Engineer - C&G
ndependent Env. Checker	Mott MacDonald Hong Kong Limited	Liz Lo 2828-5751	IEC
Inv. Team Leader	Acuity Sustainability Consulting Limited	Kevin Li 2698-6833	ETL
Contractor	Build King Civil Engineering Limited	Wilfred So	Project Manager
		Alvin Lei	Construction Manager
		Calvin Li	Site Agent
		Lawrence Lam	Works Manager
		So Kwok Po	Superintendent
		Fok Kam Moon 9364-1364	Foreman
		Sunny Sung 9517-4340	(*) Environmental Officer
		Bernard So 9824-7929	Enviromental Supervisor

#### Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 21<sup>st</sup> EM&A Report – April 2023

Party	Role	Contact	Phone No.
		Person	
Drainage Services Department	Project Proponent	C.K. NG	2594 7264
HKSAR (DSD)			
Supervisor / Supervisor's	Resident Engineer	Dennis Cheung	2675 3910
Representative			
(Atkins China Limited)			
Environmental Team	Environmental Team	Kevin Li	2698 6833
(Acuity Sustainability	Leader		
Consulting Limited)			
Independent Environmental	Independent	Liz Lo	2828 5751
Checker	Environmental		
(Mott Macdonald Hong Kong	Checker		
Limited)			
Contractor	Site Agent	Calvin Li	9423 4998
(Build King Construction			
Limited)	Environmental Officer	Sunny Sung	9517 4340

## **1.4. SUMMARY OF CONSTRUCTION WORKS**

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

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

- Trial pit and ground investigation
- Smart sewage monitoring
- Pre-bored Works for Sheet Piles Installation for Subsequent ELS at CCSTW
- Repair Works for Existing Sludge Ramp
- Excavation and Lateral Support (ELS) at CCSTW
- Construction of Sludge Digester Building
- Internal Finishing
- Construction of MBR Treatment Facilities
- Reinstatement of Damaged Gate and Column

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

- Trial pit and ground investigation
- Smart sewage monitoring
- Pre-bored Works for Sheet Piles Installation for Subsequent ELS at CCSTW
- Repair Works for Existing Sludge Ramp
- Excavation and Lateral Support (ELS) at CCSTW
- Construction of Sludge Digester Building
- Internal Finishing
- Construction of MBR Treatment Facilities
- E&M works

## **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 9

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 April to 30 April 2023.

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## **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 cm<sup>2</sup>;
  - (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

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(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 –	Tisch TE-5170X High Volume	1048
24- hour TSP	Air Sampler	1085
Calibrator Kit	Tisch TE-5028A Calibration Kit	3702

Table 2.1	<b>Equipment Us</b>	ed for Air Q	<b>Quality Monitoring</b>
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#### **2.4. MONITORING LOCATIONS**

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

Table 2.2 Proposed Dust Monitoring Stations
---

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

- **2.4.3.** As secured electricity supply was not able to be provided at Monitoring Station A1, Monitoring Station A1a was then proposed. The proposed Monitoring Station A1a is the Admin Building inside the construction site. It is located at a similar direction as A1 from the construction site, but much closer to any major dust emission source than A1.
- **2.4.4.** Monitoring Station A2 is now abandoned, only limited access can be granted and power supply cannot be guaranteed which may not feasible to be a monitoring location. An alternative location A2a, which is the existing outfall pumping station Building inside the construction site. Location A2a is about 30 meter away from the Cheung Chau slaughter

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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.

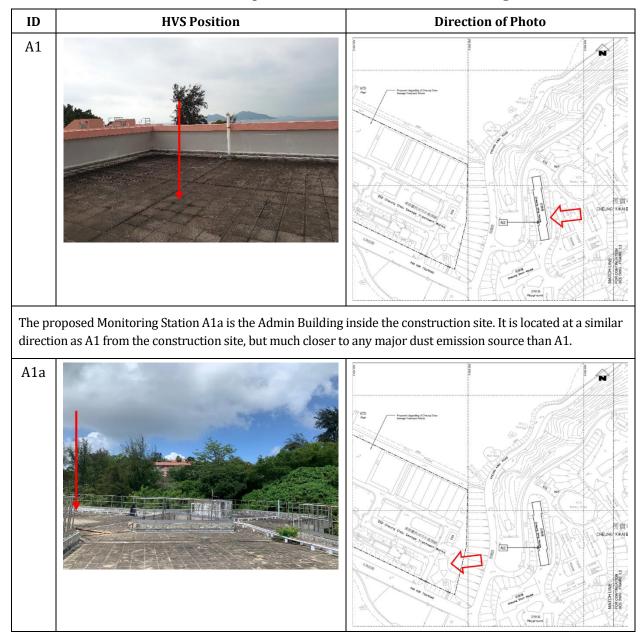
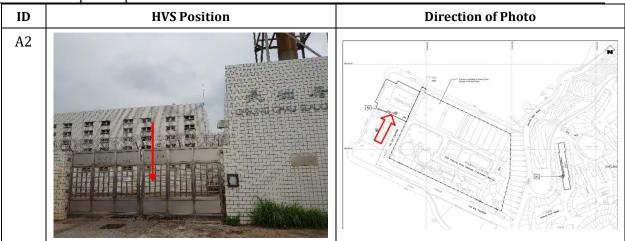


 Table 2.3 Photo of Proposed HVS Position at Dust Monitoring Stations

#### Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 21<sup>st</sup> EM&A Report – April 2023



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



## **2.5.** RESULTS AND ANALYSIS

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

Table 2.4	Summary of 1-hour TSP Monitoring Results
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Monitoring Location	Average(µg/m3)	Range(µg/m3)
A1a	73	47 - 139
A2a	55	40 - 72

## Table 2.5Summary of 24-hour TSP Monitoring Results

Monitoring Location	Average(µg/m3)	Range(µg/m3)
A1a	57	49 - 71
A2a	43	35 - 52

**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	For baseline level $\leq 200 \ \mu g/m^3$ AL = (BL * 1.3 + LL)/2	260 μg/m <sup>3</sup>
in μg/m³	<u>For baseline level &gt; 200 μg/m³</u> AL = LL	
24-hour TSP Level in	For baseline level $\leq 384 \ \mu g/m^3$ AL = (BL * 1.3 + LL)/2	500 μg/m <sup>3</sup>
µg/m³	<u>For baseline level &gt; 384 μg/m<sup>3</sup></u> AL = LL	

Table 2.6 Ac	ction / Limit	Levels for	Air Quality
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2.6.2. The derived Action/Limit Levels are presented in **Table 2.7**.

Table 2.7	Derived Action	/ Limit Levels for Air Quality
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Parameters	Monitoring Location	<b>Action Level</b> µg/m <sup>3</sup>	<b>Limit Level</b> µg/m <sup>3</sup>
1-hour TSP Level	A1a	151	260
in µg/m <sup>3</sup>	A2a	154	
24-hour TSP Level in	A1a	270	500
μg/m <sup>3</sup>	A2a	271	

## **2.7. EVENT AND ACTION PLAN**

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

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

	EVENT ACTION PLAN FOR CONSTRUCTION DUST			
EVENI	ET	IEC	ER	CONTRACTOR
		ACTION LEVEL		
Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding; and</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET; and</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice; and</li> <li>Amend working methods if appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER; and</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures; and</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor; and</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal if appropriate.</li> </ol>

#### **3.** Noise

#### **3.1. MONITORING CRITERIA**

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

#### Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

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

#### **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	C119577
Acoustic Calibrator	Rion NC-75	34724245

Table 3.2 Equipment Used for Noise Monitoring

#### **3.3. MONITORING LOCATION**

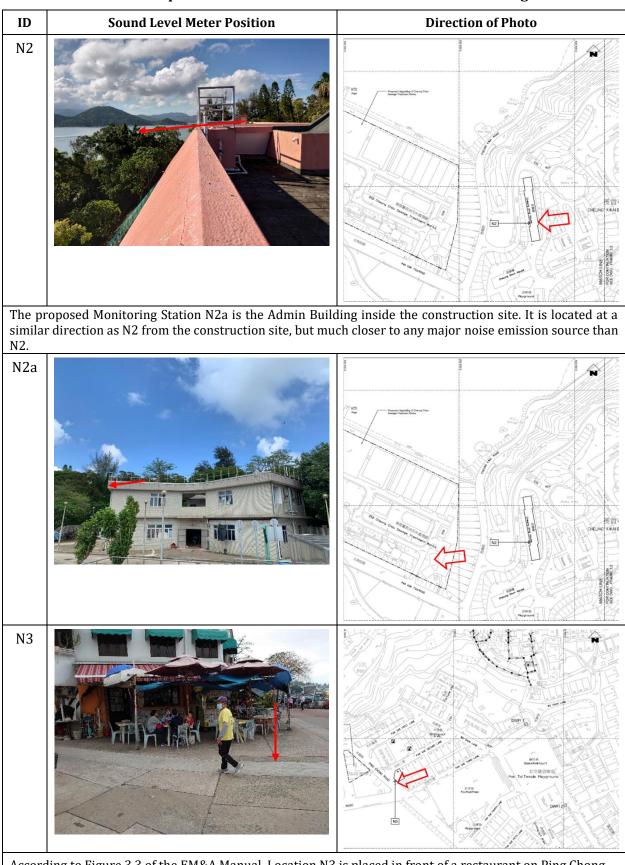
3.3.1. According to the environmental findings detailed in the EIA report, the designated locations for the construction noise monitoring are listed in **Table 3.3** and shown in Figure 3.1 – 3.8 of the EM&A Manual.

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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 Secion 3.4.1 and 3.4.2 of the EM&A Manual.
- 3.3.5. The monitoring locations should normally be made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. **Table 3.4** showed photographs and indications of the proposed position of sound level meters to be placed for the baseline and impact monitoring.

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



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.

20

#### Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 21<sup>st</sup> EM&A Report – April 2023

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 April 2023. The measurement data are shown in <u>Appendix F</u> and summarized in **Tables 3.5**.

Monitoring Location	Time Period	Average[dB(A))	Range[dB(A))
N2a	Daytime (0700-1900)	73.5	73.0 - 74.3
N3a	Daytime (0700-1900)	73.1	70.3 - 74.9

#### Table 3.5 Summary of Noise Monitoring Results

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

## **3.5. Environmental Quality Performance Limits**

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

#### Table 3.6Action / Limit Levels for Construction Noise

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

## **3.6.** EVENT AND ACTION PLAN

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

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

## 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 04, 11, 18 and 24 April 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 in April 2023 for testing. Due to the delay of laboratory result, the result will be presented in the next EM&A monthly report.

## **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**.



(All monthly about the second of effect 2 destroy belows)

#### Contract No: DC/2019/07

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

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

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

(All quantities s	shall be rounded off to	3 decimal places)								updated on:	02-May-2023					
		Actual Quan	titics of Inert C&D Mater	ials Generated / Imported	l (in '000 kg)		Actual Quantities of Other C&D Materials / Wastes Generated									
Month	Total Quantities Generated	Broken Concrete (including rock for recycling into aggregates)	Reused in the Contract	Reused in Other Projects		Imported C&D Material	Metal	Paper/ Cardboard Packaging (f)	Plastic (g) (bottles/containers, plastic sheets/ foams from package material)	Chemical Waste (h)	Others (i) (e.g. General Refuse etc.)					
	[a+b+c+d+c+f+g+h+i)	(a)	(b)	(c)	(d)		(c) (in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)					
Jan-2023	6752.4100	0.0000	0.0000	0.0000	6745.3900	0.0000	0.0000	0.0000	0.0000	0.0000	7.0200					
Feb-2023	2032.0500	0.0000	0.0000	0.0000	2028.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.0500					
Mar-2023	4282.9700	0.0000	0.0000	0.0000	4276.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.9700					
Apr-2023	2152.4200	0.0000	0.0000	0.0000	2148.0000	0.0000	0.0000	0.0000	0.000	0.0000	4.4200					
May-2023																
Jun-2023																
Half-year total	15219.8500	0.0000	0.0000	0.0000	15197.3900	0.0000	0.0000	0.0000	0.0000	0.0000	22.4600					
Jul-2023																
Aug-2023																
Sep-2023																
Oct-2023																
Nov-2023																
Dec-2023																
Yearly Total	15219.8500	0.0000	0.0000	0.0000	15197.3900	0.0000	0.0000	0.0000	0.0000	0.0000	22.4600					

(All quantities s	shall be rounded off to	3 decimal places)									
		Actual Quan	tities of Inert C&D Mater	ials Generated / Imported	l (in '000 kg)			Actual Quantities	of Other C&D Materials /	Wastes Generated	
Year	Total Quantities Generated	Broken Concrete (including rock for recycling into aggregates)	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported C&D Material	Metal	Paper/ Cardboard Packaging	Plastic (bottles/containers, plastic sheets/ fourns from package material)	Chemical Waste	Others (e.g. General Refuse etc.)
	[a+b+c+d+e+f+g+h+i)	(a)	(b)	(c)	(d)		(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2021	858.3600	0.0000	0.0000	0.0000	786.3000	0.0000	0.0000	0.0000	0.0000	0.0000	72.0600
2022	17081.7200	0.0000	0.0000	0.0000	17032.3700	0.0000	0.0000	0.0000	0.0000	0.0000	49.3500
2023	15219.8500	0.0000	0.0000	0.0000	15197.3900	0.0000	0.0000	0.0000	0.0000	0.0000	22,4600
2024											
2025											
2026											
Total	33159.9300	0.0000	0.0000	0.0000	33016.0600	0.0000	0.0000	0.0000	0.0000	0.0000	143.8700

Remark:

1) Density of C&D material to be	2	metric ton/m3	3) Density of Chemical Waste to be
2) Density of General Refuse to be	1.6	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)

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0.88

metric ton/m3

## 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 04, 11, 18 and 24 April 2023. A joint site inspection with IEC was carried out on 24 April 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
4 April 2023	NIL	N.A.	NIL
11 April 2023	Loose soil and acuminated debris on hoard road should be cleared after daily works activities.	The hoard road area was cleaned.	NIL
18 April 2023	NIL	N.A.	NIL
24 April 2023	NIL	N.A.	When vehicles is leaving the site area, vehicles should be washed thoroughly to avoid spreading of mud and loose soil to outside area.

#### Table 7.1 Site Observations

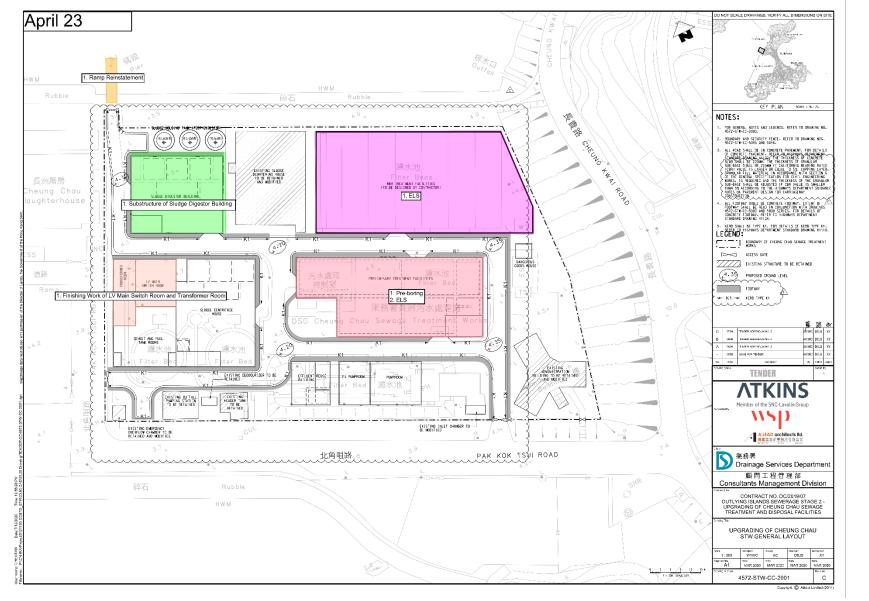
7.3. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided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

## **8.** CONCLUSION

- 8.1. This is the 21<sup>st</sup> Monthly EM&A Report for the Project which summarizes the key findings of the programme during the reporting period from 1 April to 30 April 2023, in accordance with the EM&A Manual and the requirement under EP-488/2014/A.
- 8.2. Five (5) sessions of air and four (4) sessions of noise monitoring were carried out at the monitoring locations sited at Cheung Chau in the reporting month.
- 8.3. Site audits were conducted as mitigation measures recommended for water pollution control and landscape and visual impact monitoring in the reporting period. Proper mitigation measures were implemented.
- 8.4. Weekly environmental site inspections were conducted during the reporting period. Only minor deficiencies were observed during site inspections. The environmental performance of the project was therefore considered satisfactory.
- 8.5. No exceedance of Action or Limit Level was recorded in the reporting period.
- 8.6. No environmental complaint was received in the reporting period.
- 8.7. No notification of summons or prosecution was received during the reporting period.

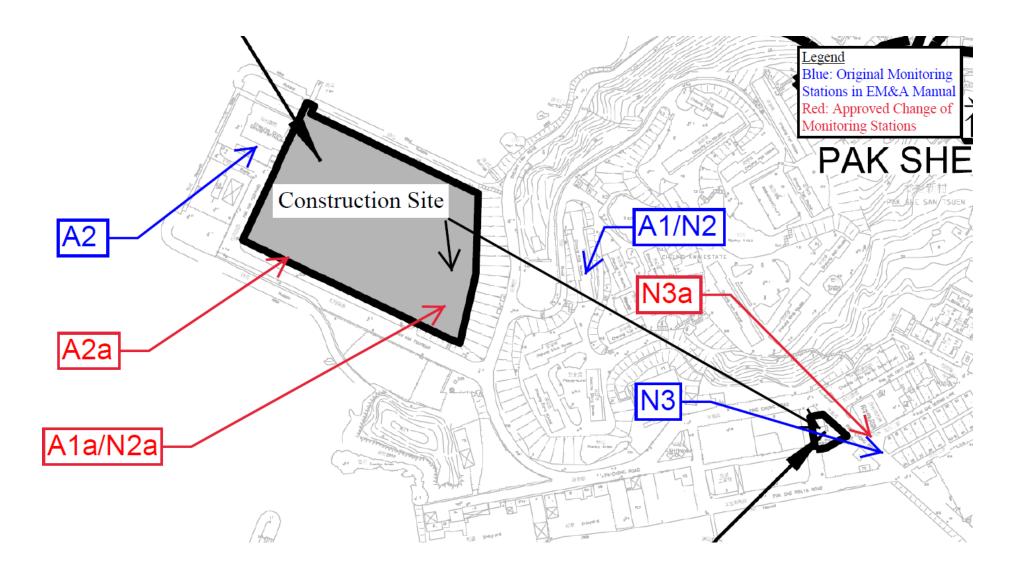
# APPENDIX A Location Plan and Noise and Dust Monitoring Stations

Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 21<sup>st</sup> EM&A Report – April 2023



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Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 21<sup>st</sup> EM&A Report – April 2023



# APPENDIX B Construction Programme



ivity ID	Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Lale Start La	te Finish	iarly Start (Rev. 20)	Early Finish (Rev. 20)	Total Float	Amended Activities	Q1 0	2021	Q4 Q1	2022	2023 4 Q1 Q2 Q3	04 01	2024 Q2 Q3 Q4 Q1	2025 02 03 04 0	2026 Q1 Q2 Q3 0
DUTLYING ISL	ANDS SEWERAGE STAGE2 - UPGRADING OF CHEUNG CHAU SEWAGE TREATME	NT AND DI	SPOS	36.4%		27-Nov-20		27-Nov-20 A	05-Feb-27	11-Jun-22 05	5-Feb-27	27-Nov-20	01-Jan-27	0							-			
EY DATES				100%		27-Nov-20		27-Nov-20 A	05-Feb-26	05-Feb-25 05	5-Feb-2ö	27-Nov-20	07-Jan-26	0							-			•
C.KD.1010	Contract Starting Date	0	0	100%	100%	27-Nov-21		27-Nov-20 A	05-Feb-26*			27-Nov-20				27-Nov-	20 A							
CCESS DATE	Contract Completion Date	0	0	D%.	03,	27 Mar 27	49 Jun 21	27 May 20 A	05-F60-20*	33	5-Feb-28	27 Nov 20	07-Jan-26	0			- 1							
CKD 1030	Portion A. B. C. D. E. F and Works Area WA1	0	0	100%	100%	27-New-20	00000000	27-Nov-20 A	VOVUINCE A			27-Nov-20	CO-SUPER			07-Mas	20 A							
DC.KD.1030#	Viorks Arma WA2	0	0	100%	100%	27-Nov-20		27-Nov-20 A				27-Nov-20				27-Nov	20 A							
DC.KD.1040	Works Anas WAG	0	0	100%	100%	03-Jun-21		03-Jun-21 A				03-Jun-21					🕇 03-Jin	21 A						
LANNED CON	IPLETION DATES			84.35%		29-May-21		294May-21 A	05-Fob-26	13-May-25 05	5-Fob-28	29-May-21	16-Oct-25	0			-							•
DC.KD.1050	Planned Completion of Section 1 (Actual Commencement Bala on 27 Nov 2020)	0	0	100%	100%		29-May-21		29-May-21 A				29-May-21				۶.							
DC.KD.1060	Planned Completion of Section 2 (Actual Commencement Date on 29 May 2021)	0	0	100%	100%		20-Feb-23		20-Fab-23 A				24-Mar-23		•					▶				
DC.KD.1070	Planned Completion of Section 3 (Actual Commencement Date on 29 May 2021) Planned Completion of Section 4 (Actual Commencement Date on 29 May 2021)	0	0	0%	0%				13-May-25* 05-Eeb-26*		3-blay-25 5-Eeb-28		08-Apr-25 16-Oct-25	0									n I.	•
10.100	CTIONAL COMPLETION DATES	0	0	81.42%	0%	29-May 21		29.54ms/21.8	05-Feb-26		5-Feb-26	28-Feb-22	07-Jtn-26	0			+++			<b>_</b>	—		*	
DG KD 1230	Generati Sedimet Complete Date of Sedim 1 (Actual Compensation Date on 27 Nov 2020)	p	q	100%	107%		294Min-21		29-May-21 A				28-Eeb-22				•			N				
DG.KD.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		•			l í						
DC.KD.1260	Contract Sectional Completion Date of Section 3 (Actual Commencement Date on 28 May 2021)	0	0	0%	0%				13-Nay-25*		3-blay-25		08-Apr-25	0	•					11 1			•	
DC.KD.1270	Contract Sectional Completion Date of Section 4 (Actual Commencement Date on 29 May 2021)	0	0	0%	0%				05-Feb-26*	05	5-Feb-26		07-Jan-26	0	•								•	•
DESIGN SUBM	SSION, PERMIT			71,37%		27-Nov-20		27-Nov-20 A	30-0ct-25	03-Jin-24 05	5-Feb-28	27-Nov-20	25-Sep-25	88										
DC.KD.1090	Prepare/submission of Temporary Drainage and Severage Management Plan to the Supervisor. DSD-HK&I 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							<b>  </b>  [-			ļļ <u></u>	
DC.KD.1100	Consultation/approval of Temporary Drainage and Severage Management Plan by the Supervisor, DSD/HK&I and DSDADD Application/approval of MWW 8 applies Marian Depth approval for leading interding approval applies applied by the Consultation of DSDADD	60 170	0	100%	100%	13-Mar-21 27-Nev-20	11-May-21 15-May-21	13-Mar-21 A 27-Nov-20 A	11-May-21 A 15-May-21 A	ļ	_	13-\4ar-21 27-\4oy-20	11-May-21 15-May-21					hhill						
C.KD.1110	Application/approval of MDN & seeking Marine Depts approval for loading/unloading at passage area near WA2 and PSSPS Application/approval of TTMS and CNP for high works by relevant authorities	170	0	100%	100%	27-Nov-20	15-May-21 15-May-21	27-Nov-20 A	10-May-21 A 15-May-21 A			27-909-20	15-May-21 15-May-21	-				TTT						
C.KD.1120	Application/approval of initial and circle and might works by relevant automotes Application/approval of permits or other statutory submissions by relevant automites/parties	150	0	100%	100%	27-Nov-20 27-Nov-20	25-Apr-21	27-Nov-20 A	25-Apr-21 A		_	27-909-20	25-Apr-21			╞┿┫	411							
DC.KD.1140	BM Execution Pan	30	0	100%	100%	27-Nov-20	26-Dec-20	27-Nov-20 A	26-Dec-20 A			27-109-20	26-Dec-20											
DC.KD.1150	Preparation and submission of BIMs CoBio/Assel data deliberables	50	0	0%	0%			13-Jui-25	31-Aug-25			08-Jun-25	27-Jul-25	158						11				
DC.KD.1160	Preparation and submission of fully coordinated as-built BIM model	25	0	0%	0%			12-Aug-25	05-Sep-25		5-Feb-28	08-Jul-25	01-Aug-25	153										
DC.KD.1170	Preparation and submission of proposal of COBIe/Asset Information requirements	200	0	0%	0%			14-Apr-25	30-Oct-25	21-Jul-25 05	5-Feb-28	10-\far-25	25-Sep-25	88								-	1 1	
DC.KD.1180 DC.KD.1190	Preparation and submission of Draft Safety Plan Obtain comments on Draft Safety Plan	14 18	0	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											
DC.KD.1200	Precatation and Submission of Safety Plan	7	0	100%	100%	25-Dec-20	24-Dec-20 31-Dec-20	25-Dec-20 A	24-Dec-20 A 31-Dec-20 A			25-Dec-20	24-Dec-20 31-Dec-20					++++				+++++++++++++++++++++++++++++++++++++++	-+-+	
DC.KD.1210	Precaration and Submission of Tree Survey Report	111	0	100%	100%	27-Nov-20	17-Mar-21	27-Nov-20 A	17-Mar-21 A			27-107-20	17-Mar-21											
OC.KD.1220	Octain Discharge License by Cliant	1	0	0%	0%			03-Jun-24	03-Jur-24	03-Jun-24 03	3-Jun-24	19-Feb-24	19-Feb-24	0							- L-			
SECTION 1				100%		27-Nov-20	18-Nov-21	27-Nov-20 A	18-Nov-21 A			27-Nov-20	16-Nov-21											
	ROPOSAL for ECI Stage 2			100%		27-Nov-20	18-Nov-21	27-Nov-20 A	18-Nov-21 A			27-Nov-20	16-Nov-21							A.				
	osal for Preliminary Treatment System at CCSTW			100%		03-Jun-21	18-Nov-21	83-Jun-21 A	18-Nov-21 A			03-Jun-21	18-Nov-21							N I				
DC.S1.1010 DC.S1.1020	Preparation and approval of content page	10 25	0	100%	100%	03-Jun-21 13-Jun-21	12-Jun-21 07-Jul-21	83-Jun-21 A 13-Jun-21 A	12-Jun-21 A 07-Jul-21 A			03-Jun-21 13-Jun-21	12-Jun-21 07-Jul-21											
DC.S1.1020	Proparation of cestign report including design intention and list of casign parameters / assumptions Proparation of process cateulation and equipment sizing	25	0	100%	100%	08-Jul-21	01-Aug-21	06-Jul-21 A	01-Aug-21 A			08-Jul-21	61-Aug-21				C.							
DC.S1.1040	Preparation of general layout and equipment location plan	20	0	100%	100%	02-Aug-21	21-Aug-21	02-Aug-21 A	21-Aug-21 A			02-Aug-21	2"-Aug-21											
DC.\$1.1050	Preparation of control philosophy	9	0	100%	100%	22-Aug-21	30-Aug-21	22-Aug-21 A	30-ALg-21 A			22-Aag-21	30-Aug-21				-							
DC.S1.1060	Preparation of remaining content of technical prosposal	19	0	100%	100%	31-Aug-21	18-Sep-21	31-Aug-21 A	18-Srp-21 A			31-Aag-21	18-Sep-21				4							
DC.S1.1070	Draft Submission	0	0	100%	100%		18-Sep-21		18-Stp-21 A				18-Sep-21											
DC.S1.1080 DC.S1.1080	Brat Submission Comment and Approva	27	0	100%	100%	19-Sep-21 16-Oct-21	15-Ocl-21 16-Nov-21	19-Sep-21 A 16-Oct-21 A	15-0c>21 A			19-Sep-21 18-Oct-21	15-Oct-21				T.							
	sel for MBR System and MBR Building at CCSTW	54	0	100%	100%	27-Nov-20	25-May-21	27-Nov-20 A	18-Nov-21 A 25-May-21 A			27-Nov-20	16-Nov-21 25-Mey-21					-						
E&M Submission	sai loi nibit system and lubit building at CCSTV			100%		27-Nov-20	25-May-21	27-Nov-20 A	25-May-21 A			27-Nov-20	25-May-21											
DC.61.1110	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	06-Dec-20											
DC.81.1120	Preparation of cestign report inclucing design 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											
DC.\$1.1130	Preparation of process celculation 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			P								
DC.S1.1140	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											
DC.S1.1150 DC.S1.1160	Preparation of control philosophy Preparation of remaining contant of technical prosposal	9	0	100% 100%	100% 100%	15-Feb-21 07-Mar-21	23-Feb-21 25-Ma-21	15-Feb-21 A 07-Mar-21 A	23-Feb-21 A 25-Mer-21 A			15-Feb-21 07-Mar-21	22-Feb-21 25-Mar-21											
DC.S1.1160 DC.S1.1170	Preparation of remaining content of technical prospecial Dira't Submission	12	0	100%	100%	27-Mar-21	25-Ma-21 25-Ma-21	or-Mar-21 A	25-Mer-21 A 25-Mer-21 A			or-man-21	25-Mar-21 25-Mar-21											
DC.51.1160	Dia Laurinsson	27	0	100%	100%	28-Mar-21	21-Apr-21	26-Mar-21 A	21-Apr-21 A			26-Mar-21	21-Apr-21			14								
DC.S1.1190	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											
	al Submission			100%		23-Dec-20	29-Apr-21	23-Dec-20 A	29-Apr-21 A			23-Dec-20	29-Apr-21											
DC.S1.1680	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			-								
DC.S1.1690 DC.S1.1700	Preparation of B.M. Modeling	13	0	100%	100%	15-Feb-21	27-Feb-21	15-Feb-21 A	27-Feb-21 A			15-Feb-21	27-Feb-21 28-Feb-21											
DC.S1.1700	Submission of Draft Technical Proposal Draft Submission Comment and Acousta	0 27	0	100%	100%	28-Feb-21 28-Feb-21	28-Feb-21 26-Mar-21	28-Feb-21 A 28-Feb-21 A	28-Feb-21 A 26-Mar-21 A			28-Feb-21 28-Feb-21	28-Feb-21 26-Mar-21			lič, i		444		<b>₽</b>		↓ <u></u>	-+-+	
DC.81.1715 DC.81.1720	Diat Submission Comment and Approva Final Submission (With ICE Conflicate)	27	0	100%	100%	28-Heb-21 27-Mar-21	20-Mar-21 29-Apr-21	25-Heb-21 A 27-Mar-21 A	25-Mer-21 A 29-Apr-21 A		_	28-Fed-21 27-Mar-21	25-Mar-21 29-Apr-21			5								
	sal for Sludge Treatment System at CCSTW		- · ·	100%	102.10	27-Nov-20	25-May-21	27-Nov-20 A	25-May-21 A			27-Nov-20	25-May-21			HA								
DC.S1.1210	Preparation and approval of content page	10	0	100%	100%	27-Nov-20	06-Dec-20	27-Nov-20 A	06-Dec-20 A			27-Nov-20	06-Dec-20											
DC.\$1.1220	Preparation of cestign report inclucing design 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											
DC.S1.1230	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											
DC.S1.1240	Preparation of general layout and equipment location plan	20	0	100%	100%	28-Jan-21	14-Feb-21	26-Jan-21 A	14-Feb-21 A			28-Jan-21	14-Feb-21			E I								
DC.S1.1250 DC.S1.1250	Preparation of control philosophy Preparation of remaining content of technical prosperal	9	0	100%	100%	15-Feb-21 07-Mar-21	23-Feb-21 25-Ma-21	15-Feb-21 A 07-Mar-21 A	23-Feb-21 A 25-Mer-21 A			15-Feb-21 07-Mar-21	23-Feb-21 25-Mar-21											
oc.a1.1290	n reviewerken kunnen mittig kontent of escrinicer (* caspatele	18	9	100%	100%	e7-M8F-21	204481-21	UT-MBP-21 A	ZOHMEP-21 A			07-986-21	20-6487-21			181	u Ul	uuiii	i li			nai <u>I</u>		
Prir	nary Baseline	DC/201	9/07 OI			S SEWER	AGE STA	GE2 - UPG	RADING	E CHEUN	G CHAI	JSEWAG	E TREA	TMENT		ISPOS	AL FA	ACILIT	ES	Date	_	Revision	Chec	Approv
	ual Work	001201				- JENEN														30-Nov-22	2 [	Rev. 20	JL	CL
	au vronk						REVISE	) PROGR			(20 FE	oruary 2	1023)							31-Dec-22	2 1	Rev. 21	JL	CL
	and the second																							
Re	maining Work								(Page	1 of 13)										28-Feb-23	3	Rev. 22	JL	CL
Re	maining Work ical Remaining Work								(Page	1 of 13)										28-Feb-23	3	Rev. 22	JL	CL



why ID	Activity Name	Orl. Dur (d)	TRA (d)	Time Expeed X	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish Late Start	Late Finish Early Start (Rev 20)	Early Finish T- (Rev. 20) FI	tal Amended bat Activities	20	01 04	01 02	022	202	01 04	2024	1 04 01	2025	2026 Q1 Q2 Q3 Q4
DC.\$1.1270	Deat Submission	0	0	100%	100%		25 Mar-21		25-Mar-21 A		25-Mar-21		131	10								
DC.S1.1280	Draft 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		4					array.				
DC.S1.1290	Final Submission	34	0	100%	100%	22-Apr-21	25-May-21	22-Apr-21 A	25-May-21 A	22-Apr-21	25-May-21											
Technical Prop DC 81 1310	oosel for Electrical Works at CCSTW	12	0	100%	107%	27-Nov-20 27-Nov-20	25-May-21 06-Dec-20	27-Nov-20 A 27-Nov-20 A	25-May-21 A 08-Dar-20 A	27-Nov-20 27-Nov-20	25-May-21 (16-Dec-20							1				
DC.S1.1310 DC.S1.1320	Preparation and approval of content page	25	0	100%	100%	27-Nov-25 07-Dec-25	31-Dec-20	27-Nov-20 A 07-Dec-20 A	31-Dec-20 A	07-Dec-20	05-Dec-20 31-Dec-20					: 8		1				
DC.S1.1320 DC.S1.1330	Preparation of pregin report inducing dasign intention and list of pasign parameters / assumptions Preparation of process calculation and equipment sizing	25	0	100%	100%	01-Jan-21	25-Jan-21	01-Jan-21 A	25-Jan-21 A	01-Jan-21	25-Jan-21											
DC 81.1340	Preparation of general layout and equipment location plan	20	0	100%	100%	28-Jan-21	14-Erb-21	26-Jan-21 A	14-Ftb-21 A	28-Jon-21	14-Feb-21					1		1				
DC.\$1.1350	Preparation of control philosophy	20	0	100%	100%	15-Feb-21	06-Mar-21	15-Feb-21 A	06-Mar-21 A	15-Feb-21	08-Mar-21					1 8		1				
DC.S1.1360	Preparation of remaining content of technical prosposal	19	0	100%	100%	07-Mar-21	25-Man-21	07-Mar-21 A	25-Mar-21 A	07-Mar-21	25-Mar-21							1.11				
DC.S1.1370	Dart Submission	0	0	100%	100%		25-Mar-21		25-Mar-21 A		25-Mar-21		-3			0		2				
DC.S1.1380	Bra't 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			TH	m							
DC.S1.1330	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 9		100				
Technical Prop	oosal for Temp. Works Design for the 1st 3months of ECI S2			100%		16-Jan-21	23-May-21	16-Jan-21 A	23-May-21 A	16-Jan-21	23-May-21											
DC.S1.1410a DC.S1.1410b	Preparation and approval of Technical Prosposal for ELS Design of Slidge Digester Building	87 87	0	100%	100%	18-Jan-21	23-Ma-21 23-Ma-21	16-Jan-21 A 16-Jan-21 A	23-Mar-21 A 23-Mar-21 A	18-Jan-21 18-Jan-21	23-Mar-21 23-Mar-21							5				
DC.S1.14100 DC.S1.1410c	Preparation and approval of Technical Proposal for ELS Design of LV Main Switch Rm, Transformer Rm & WAS Storage Tanks Preparation and approval of Technical Proposal for ELS Design of WBR Treatment Facilities	67	0	100%	100%	18-Jan-21 18-Jan-21	23-Ma-21 23-Ma-21	16-Jan-21 A 16-Jan-21 A	23-M87-21 A 23-M87-21 A	18-Jan-21	23-Mar-21 23-Mar-21					- Q -		21.21	-	-		
DC.S1.14106	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	16-Jan-21 A	23-Mar-21 A	18-Jan-21	23-Mar-21							2				
DC.S1.1420	Dat Submission	0	0	100%	100%		23-Mar-21		23-Mar-21 A		23-Mar-21					9		5				
DC.S1.1430	Diat Submission Comment and Approva	27	0	100%	100%	24-Mar-21	19-Apr-21	24-Mar-21 A	19-Apr-21 A	24-Mar-21	19-Apr-21					. 8		2.5				
DC.S1.1440	Final Submission	34	0	100%	100%	20-Apr-21	23-May-21	20-Apr-21 A	23-Way-21 A	20-Apr-21	23-May-21		-					10				
Technical Prop	iosal for Accommodation for the Project Manager's, Supervisor's & Contractor's Co-Office			100%		27-Nov-20	25-Mar-21	27-Nov-20 A	25-Mer-21 A	27-Nov-20	25-Mar-21			111	111					-		
DC.S1.1460	EC: Stage 1 - Technical proposal for accommodation for the Project Manager's Supervision's & Contractor's co-office	119	Ø	100%	100%	27-Nov-20	25-Mar-21	27-Nov-20 A	25-Mar-21 A	27-Nov-20	25-Mar-21											
Technical Prop	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					8		1				
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 1						
DC.S1.1430	Preparation of cestign 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			444		- H-					(	
DC.S1.1500 DC.S1.1530	Preparation of testign memorandum for E&M DBNA	32 19	0	100%	100%	13-Mar-21	11-Apr-21 30-Apr-21	13-Mar-21 A	11-Apr-21 A	13-Mar-21	11-Apr-21					10.01		41.21				
DC.S1.1540 DC.S1.1540	Preparation of remaining content of technical prosposal Draft Submission	15	0	100%	100%	12-Apr-21	30-Apr-21 30-Apr-21	12-Apr-21 A	30-Apr-21 A 30-Apr-21 A	12-Apr-21	30-Apr-21 30-Apr-21											
DC.S1.1540 DC.S1.1550	Dia't Submission Dia't Submission Comment and Approva	24	0	100%	100%	01-May-21	24-May-21	01-May-21 A	24-May-21 A	01-May-21	24-May-21		11			1 9		5				
DC.S1.1580	Final Submission	38	0	100%	100%	25-May-21	29-Jun-21	25-May-21 A	29-Jun-21 A	25-May-21	29-Jun-21					1 0		2				
SITE PREPAR	ATION WORKS			100%	100.0	27-Nov-20	15 May-21	27-Nov-20 A	15-Way-21 A	27-Noy-20	15-May-21		HHT					1		-		
DC S1.1580a	Design of Hild Co-Office	15	0	100%	107%	08-Mar-21	23-Mar-21	06-Mar-21 A	23-Mar-21 A	06-Mar-21	23-Mar-21							201				
DC S1.1580b	Fabrication of MC Co-O lice	44	0	100%	100%	28-Jan-21	23-Mar-21	28-Jan-21 A	23-Mar-21 A	28-Jan-21	23-Mar-21							2				
DC S1.1590	Site clearance, set up site hearding, provision of temporary fence, and erection of project signopant	184	6	100%	100%	27-Nov-20	15-May-21	27-Nov-20 A	15-Way-21 A	27-Nov-20	15-May-21					1 9		5				
DC S1.1800	Structural Condition Survey	34	2	100%	100%	10-Apr-21	15 May-21	10-Apr-21 A	15-Way-21 A	10-Apr-21	15-May-21		-					2				
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-Way-21 A	20-Jan-21	10-May-21			1111		1		1				
DC S1.1640	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-Msy-21							2				
DC S1.1660	Initial site survey record	55	4	100%	100%	27-N:v-21	25-Jan-21	27-Nov-20 A	25-Jan-21 A	27-Nov-20	25-Jan-21							5				
DC S1.1670	ConductUU devection and issuance of UU detection report	28	2	100%	100%	21-Dec-23	19-Jan-21	21-Dec-20 A	19-Jan-21 A	21-Dec-20	19-Jan-21					1 9		6				
DC S1.1871a Raw Sewerage	Installation of Pieconster PS1 to PS3 Sampling Survey	45	0	100%	100%	31-Mar-21	154May-21 064Feb-21	31-Mar-21 A 27-Nov-20 A	15-May-21 A 06-Feb-21 A	31-War-21 27-Nov-20	15-May-21 08-Eeb-21											
DC.S1.1610a	Conduct nilial Reconnaissance Visit	13	1	100%	100%	27-Nov-20 27-Nov-20	10-Dec-20	27-Nov-20 A	10-Dec-20 A	27-909-20 27-909-20	10-Hdb-21 10-Dec-20							1				
DC.S1.1610b	Subarit Report of Initial Report alsoance Viat	5	0	100%	100%	11-Dec-20	15-Dec-20	11-Dec-20 A	15-Dec-20 A	11-Dec-20	15-Dec-20							5				
DC.S1.1610c	Approval of Report of Initial Reconnaissance Visit	7	0	100%	100%	16-Dec-20	22-Dec-20	16-Dec-20 A	22-Dec-20 A	16-Dec-20	22-Dec-20							200				
DC.S1.1610d	Preparation work for Raw Sewage Sampling	7	0	100%	100%	23-Dec-20	29-Dec-20	23-Dec-20 A	29-Dec-20 A	23-Dec-20	29-Dec-20											
DC.S1.1610e	ConductRae Sewage Sampling	14	a	100%	100%	30-Dao-20	12-Jan-21	30-Dec-20 A	12-Jan-21 A	30-Dec-20	12-Jan-21			111		- 1 -						
DC.S1.1610F	Submission of Survey Report	21	0	100%	100%	13-Jan-21	02-Feb-21	13-Jan-21 A	02-Feb-21 A	13-Jan-21	02-Feb-21							1				
DC.S1.1610g	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		4			1 8		5				
DC.S1.1610h	Submission of Final Survey Report	2	0	100%	100%	05-Feb-21	06-Feb-21	05-Feb-21 A	06-Feb-21 A	05-Feb-21	08-Feb-21		-					200				
	ge Monitoring System			100%		27-Nov-20	10-Jan-21	27-Nov-20 A	10-Jan-21 A	27-Nov-20	10-Jan-21											
DC.S1.1620a	Carty out site investigation and submit Reconnais ance Survery Report	42	3	100%	100%	27-Nov-20 29.34ps/21	10-Jan-21	27-Nov-20 A	10-Jan-21 A	27-Nov-20	10-Jan-21							1				
COMPLETION	I OF SECTION 1	D		0%		28-May-21	294May-21 294May-21	294May-21 A	29-May-21 A	28-May-21	29-Msy-21											
DC.S1.1650 SECTION 2 - U	Completion of Section 1 (Working Days)	U	0	100%	100%	97 May 92	294May-21	07 May 05 A	29-May-21 A	24 May 22 07 May 20	29-May-21 24-Mat-23							5				
				50.20%		27-N07-25 19-Mar-21		20N0020A 19-Mar-21 A	31-887-23 28-Feb-23	31-66-23 27-307-20	24-M0F23 29-Jan-23	0						21.22				
DC SZ 1005s	INT, FABRICATION and DELIVERY of MAJOR E&M EQUIPMENT	45	0	100%	107%	10-Mar-21 12-Jul-21	25-Aug-21	194Mar-21 A 12-Jul-21 A	15-HEF-23 28-H6F-23 25-Aug-21 A	15-Mar-23 27-Nov-20 12-Jul-21	28-Jan-23 25-Aug-21							-		·	(	
DC SZ 10058	Eau brren Subrinskier and Approval (Other equipment)	45	0	100%	107%	12-JU-21 28-Aug-21	25-RJg-21 14-Jan-22	12-JUI-21 A 26-Auc-21 A	20-ALG-21 A 14-Jan-22 A	12-JUI-21 26-Aug-21	25-Aug-21 22-Jan-22							1				
DC SZ 1005c	Equipment Submission and Approval (Scree Pumps)	40	0	100%	100%	20-HUg-2 31-Aug-21	09-001-21	31-Aug-21 A	19-0cl-21 A	26-Aug-21	04-001-21			-		11		1.1				
DC S2.10055	Equipment Submission and Approval (Constant and S)	189	0	100%	100%	31-AUg-21	08-Mar-22	31-Aug-21 A	08-Mar-22 A	27-Nov-20	31-Mar-21				<b>.</b>						111	
DC S2.1005e	Equipment Submission and Approval (DOU)	131	0	100%	100%	31-Oct-21	11-Ma-22	31-0ct-21 A	11-Mar-22 A	27-\0y-20	1'-Mar-21		HH					21				
DC 52.1005f	Equipment Submission and Approval (VSD)	91	0	100%	100%	30-Nov-21	01-Mar-22	30-Nov-21 A	01-Mar-22 A	27-Nov-20	22-Jan-21		┡╡╣║			L-1-1-1			111		int th	
DC 52.1005g	Equipment Submission and Approval (Rowneter)	172	0	100%	100%	03-Deo-21	24-May-22	03-Dec-21 A	24-May-22 A	27-Nov-20	17-Msy-21				i i i	ųų		71.27				
DC S2.1005h	Equipment Submission and Approval (FRP Cover of Sarev Pump)	100	0	100%	100%	28-Feb-22	08-Jun-22	28-Feb-22 A	08-Jun-22 A	27-Nov-20	06-Mar-21					ųų I		100				
DC S2.1005i	Equipment Submission and Approval (LVSB)	95	0	100%	100%	03-Jan-22	11-Apr-22	03-Jan-22 A	11-Apr-22 A	28-Feo-22	13-Apr-22				n <b>n</b>	şş		5				
DC S2.1010s	Procurement (Oher 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							1.				
DC SZ 1010a10	Procuroment (Seree Pumps)	7	0	100%	100%	24-Sep-21	24-Sep-21	24-Sep-21 A	24-Stp-21 A	05-Oci-21	11-0cl-21			ή.								
DC S2.1010s20	Procurement (Persitocks)	1	0	100%	100%	03-Jan-22	04-Jan-22	03-Jan-22 A 20-Mar-22 A	04-Jan-22 A 21-Mar-22 A	17-Mar-21 20-Mar-22	18-Mar-21 21-Mar-22							1.1				
DC S2.1010930	Procurement (DOU)	z	0	100%	100%	20-Mar-22	21-Ma-22	204M9F-22 A	21-M81-22 A	20-48-22	2°-M8F-22				1174			<i></i>	11.0	1		
Pri	mary Baseline	DC/201	9/07 OI			SEWER	AGE STA	GE2 - UPG	RADING OF CHEU	ING CHAU SEWA	GE TREATM	ENT AND D	SPOSA	L FACI	ILITIF	s		ate		evision	Chec	
	tual Work															-	30-No	v-22	Rev. 2	0	JL	CL
							REVIGEI	PROGR	AMME - REV. 2		20231						31-De	c-22	Rev. 2	:1	JL	CL
Re	emaining Work								(Page 2 of 13)								28-Fet		Rev. 2		JL	CL
Cri	itical Remaining Work																					



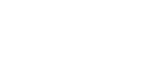
	Activity Hame	Orl. Dur (d)	TRA (d)	Time Elapsed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish E	Early Start (Rev. 20)	Early Finish Total Amended (Rev. 20) Float Activities		1021		2022	202	3	2024	4	202	5	2026
DC S2.1010s40	Procurement(VSD)	1	0	100%	Workdone % 100%	28-Jan-22	26-Jac-22	26-Jan-22 A	26-Jan-22 A			20) 23-Jan-21	(Rav. 20) Float Activities 23-Jan-21	01 0	03	4 01	02 03	4 01 02	01 04 0	1 02 1	Q3 04	01 02	03 Q4 Q1	Q2 Q3 Q4
DC 52.101040	Procurement (Powneter)	126	0	100%	100%	28-Jan-22	27-Jan-22	26-Jan-22 A	27-Jan-22 A			28-Jan-22	28-Jan-22			11	U 1 1		1.1					
DC S2.1010#60	Procurement (FRP Cover of Screw Pump)	1	0	100%	100%	30-May-22	30-May-22	30 Aday-22 A	30-May-22 A			30-May-22	30-May-22	日間	111	11	Lt t			111				
DC S2.1010#70	Procurement (LVSB)	1	0	100%	100%	05-Mar-22	05-Ma22	05-Mar-22 A	05-Mar-22 A			05-\far-22	05-Mar-22			14	199							
DC S2.1010b	Fabrication (Ofner aquipment)	253	0	100%	100%	28-Feb-22	07-Nov-22	28-Feb-22 A	07-Nov-22 A			28-Feb-22	07-Nov-22			-4			1					
DC SZ 1010b10	Fabrication (Screw Pumps)	199	0	100%	100%	12-Oct-21	29-Apr-22	12-Oct-21 A	29-Apr-22 A			12-Oci-21	28-Apr-22		11		• I I							
DC S2.1010528	Fabrication (Pensicoka)	65	0	100%	100%	19-Mar-21	11-Jun-21	19-Mar-21 A	11-Jun-21 A			19-Mar-21	1'-Jun-21		- 11	111			5					
DC S2.1010b30	Fabrication (DOU)	214	0	100%	100%	30-May-22	29 Dec-22	30 May-22 A	29-Dec-22 A			30-May-22	29 Dec-22				-		20.00			1.1		
DC S2.1010540	Fabrication (VSD)	101	0	100%	100%	28-Feb-22	08-Jun-22	28-Feb-22 A	08-Jun-22 A			28-Feb-22	08-Jun-22						1.11					
DC 82.1010850	Fabrication (Flowmster)	122	0	100%	100%	20-May-22	18-Sep-22	20 May-22 A	18-Stp-22 A			20-May-22	18-Sep-22						20.0					
DC S2.1010660	Fabrication (FRP Cover of Screw Pump)	277	0	98.58%	\$8.45%	31-May-22		31-May-22 A		28-Feb-23	03-b/ar-23	31-May-22	18-Dec-22 0 *					n Si i						
DC S2 1010670 DC S2 1010680	Fabrication (LVSB)	90	0	100%	100%	10-May-22	07-Aug-22	10-May-22 A	07-ALg-22 A 28-Seo-22 A			10-May-22	07-Aug-22 28-Sep-22			4.4								
DC S2 1010680	Fabrication (FLC) Delivery (Other equipment)	30	0	100%	100%	10-May-22 08-Nov-22	26-Sep-22 07-Dec-22	10-May-22 A 06-Nov-22 A	20-380-22 A			10-May-22 08-Nov-22	25-56p-22 07-Dec-22									1.1	1	
DC 82.1010c10	Delivery (Scree Pump)	94	0	100%	100%	30-Apr-22	01-Aug-22	30-Apr-22 A	01-AL0-22 A			30-Apr-22	0'-Auo-22						1.11					
DC 82.1010:20	Delivery (Benstocks)	37	0	100%	100%	12-Jun-22	18-Jul-22	12-Jun-22 A	18-Jul-22 A			12-Jun-22	18-Jul-22											
DC S2.1010:30	Delivery (DOU)	39	0	100%	100%	30-Dec-22	06-Feb-23	30-Dec-22 A	06-Feb-23 A			30-Dec-22	28-Jan-23						5					
DC S2.1010:40	Delivery (VSD)	34	0	100%	100%	09-Jun-22	12-Jul-22	09-Jun-22 A	12-Jul-22 A			08-Jun-22	12-Jul-22			10								
DC S2.1010:50	Delivery (Flowmeter)	2'	0	100%	100%	30-Sec-22	20-Oct-22	30-Sep-22.A	20-0ct-22 A			30-Sep-22	20-Oct-22				-		5					
DC S2.1010:50	Delivery (FRP Cover of Sorew Pump)	12	0	DN-	0%			04-Mar-23	15-9ar-23	04-Mar-23	15-Mar-23	19-Dec-22	24-Jan-23 0 *						1					
DC S2.1010:70	Delivery (LVSB)	29	0	100%	100%	08-Aug-22	05-Sep-22	08-Aug-22 A	05-Sep-22 A			08-Aug-22	05-Sep-22					N						
DC S2 1010:50	Deitrery (PLC)	42	0	100%	100%	30-Sep-22	10-Nov-22	30-Sep-22 A	10-Nov-22 A			30-Sep-22	10-Nov-22						5					
CIVIL AND ST	RUCTURAL WORKS			100%		27-Nov-20	13-Sep-22	27-Nov-20 A	13-Sep-22 A			27-Nov-20			111	111								
	f emergency by-pass			100%		27-Nov-20	13-Sep-22	27-Nov-20 A	13-Sep-22 A			27-Nov-20	12-Sep-22	111	111	111			-		11			
DC.S2.1020	Expose and install protectsupport system for existing underground utilities and services (HGC, CLP,etc)	25	2	100%	100%	29-Jun-21	03-Aug-21	29-Jun-21 A	03-ALg-21 A			29-Jun-21	03-Aug-21		-				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						5					
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-Ftb-21 A			04-Jan-21	02-Feb-21	Fi ()					41.17				-	
DC.S2.1030	Installation of ELS for TTA Stage 1 and construction of 750 dia, emergency bypass 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		1	1								
DC.S2.1031	Backfilling, Removal of Temporary Supports and Reinstatement of Pootpath at Ping Chong Road	29	3		100%	20-Nov-21	21-Dec-21	20-Nov-21 A	21-Dec-21 A			20-Nov-21	21-Dec-21			Terr			101				1	
DC.S2.1040 DC.S2.1050	Implementation of TTA Stage 2 to enclose works area of manhole BPMH03	6 40	0	100%	100% 100%	20-Nov-21 27-Nov-21	26-Nov-21 24-Jan-22	20-Nov-21 A	26-Nov-21 A 24-Jan-22 A			20-Nov-21 27-Nov-21	26-Nov-21 24-Jan-22											
DC.S21050 DC.S21070	Installation of ELS and construction of 750 dial emergency bypasis for connection to manhole BPMH03 Restriction of a Tenano of State Provide and American State Provide and American State Provide American State	42	2	100%	100%	27-NOV-21 25-Jan-22	24-Jan-22 03-Mar-22	27-Nov-21 A 25-Jan-22 A	24-Jan-22 A 03-Mar-22 A			27-909-21 25-Jan-22	24-J81-22 03-Mar-22		1 IT		1		5					
DC.S2.10/0	Backfilling, Removal of Temporary Supports and reinstatement of existing road at Ping Chong Road Pipe CCTV survey, application marhole protective coat, capcing and sealing of existing typess and final connection works	25	2	100%	100%	25-Jan-22 05-May-22	31-May-22	05-May-22 A	31-May-22 A			20-Jan-22 05-May-22	31-May-22			-								
DC.S2.1150	Submission of as-constructed records after completion of permanent reinstatement of the toolpath	14	0	100%	100%	04-Mar-22	13-Stp-22	04-Mar-22 A	13-Stp-22 A			04-Mar-22	13-Sep-22											
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-Sto-22 A			04-Mar-22	13-Sep-22						1					
E&M WORKS	contractor o to construct but recent must did a sup to un annual bucch or a configura-			93.94%	111-4	20-Oct-21	to orp as	20-0ct-21 A	31-War-23	28-Feb-23	31-Mar-23	20-001-21	24-Mar-23 0			1 11		-						
DC S2.1085a	Perparation and Submission of TTA Drawings for Pump Replacement Works	154	Ð	100%	100%	20-Oct-21	22-Aar-22	20-0ct-21 A	22-Apr-22 A			20-Oci-21	17-Jan-22		- 4	1.0			5					
DC.S2.1085b	Ottain 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						11.11					
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				4		5					
DC S2.1090a	Removal of Existing Panatock No.3 and Screw Pump No. 3 and Civil Works for New Installation	23	0	100%	100%	18-Jul-22	13-Aug-22	19-Jul-22 A	13-ALg-22 A			19-Jul-22	13-Aug-22				H		1.1					
DC S2.10905	Installation of New Screw 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				14		1					
DC S2.1090:	Screeding for the screw pump frough for Screw Pump No.3	12	9	100%	100%	13-Sep-22	27-Sep-22	13-Sep-22 A	27-Sep-22 A			13-Sep-22	2'-Sep-22			111			1					
												09-Nov-22		1111	- 1 H H				20.00			1.1		
DC S2 1090d	Perparation Works and Carry out Dry Test and Wel Test for Scree Pump No.3	13	0	100%	100%	09-Nov-22	21-Nov-22	09-Nov-22 A	21-Nov-22 A				21-Nov-22											
DC S2.1090310	Installation of New Pensiock No.3 and Sile Acceptance Test	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 1090410 DC SZ 1090420	Installation of Nov-Ponsiock No.3 and Sto Acceptance Test Waterpreding Couling at Screes Pump Trough No.3	54 34	0	100% 100%	100% 100%	13-Sep-22 30-Sep-22	16-Nov-22 10-Nov-22	13-Sep-22 A 30-Sep-22 A	16-Nov-22 A 10-Nov-22 A			13-Scp-22 30-Scp-22	18-Nov-22 10-Nov-22						21.22.22					
DC S2.1090±10 DC S2.1090±20 DC S2.1091a	Installation of Nava Persiock No.3 and Sto Acceptance Test Waterproting Coding at Seres Parto Tesugh No.3 Removal of Existing Penatock No.2 and Seree Party No.2 and Civil Works for Nava Installation	54	0 0 0	100% 100% 100%	100% 100% 100%	13-Sep-22 33-Sep-22 22-Nov-22	16-Nov-22 10-Nov-22 03-Dec-22	13-Sep-22 A 30-Sep-22 A 22-Nov-22 A	16-Nov-22 A 10-Nov-22 A 03-Dec-22 A			13-Scp-22 30-Scp-22 22-Nov-22	18-Nov-22 10-Nov-22 10-Doc-22				Ţ.	-	21.21.21.21.2					
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C S2.1152 Inc	nstellation of MCPs and related cable termination	21	0	100%	Workdone S 100%	08-Sep-22	30-Sep-22	06-Sep-22 A	30-Stp-22 A			20) 06-Stp-22	(Rav. 20) 30-Sep-22	riat	ACIMBES		<u>u</u> u 0		- Ga 04		- 91	w u 04	u uz 03 0	<u>* un az at</u>
	nstallation of Level Electrode	14	0	100%	100%	64-Jan-23	17-Jan-23	B4-Jan-23 A	17-Jan-23 A			04-Jan-23	17-Jan-23						1 1					
C S2.1160505 Su	iubmission of Draft OSM 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			- <b></b>	-		1111	-	
	lubmission of Final OSM manual	85	0	100%	100%	30-Nov-22	22-Feb-23	30-Nov-22 A	22-Feb-23 A			30-Nov-22	07-Feb-23						-					
	35M Training to DSD/ST2	15	0	DN-	0%			09-Mar-23	23-Har-23	09-Mar-23		08-Feb-23	12-Feb-23	0	•					KII 🕴				
	stallation of DOU6 and SAT	45	0	39.13%	39%	07-Feb-23		07-Feb-23 A	31-Har-23	28-Feb-23	31-b/ar-23	30-Jan-23	22-Mar-23	0					11	<b>1</b>				
	landovar Inspecien with DSDIST2	1	0	D.W	0%			29-Mar-23	30-Har-23	29-Mar-23	29-b/ar-23	22-Mar-23	22-Mar-23	0	•									
C S2.1160540 30	C-cay commissioning for the screw pumping system	32	0	100%	100%	20-Jan-23	20-Feb-23	20-Jan-23 A	20-Feb-23 A			23-Feb-23	24-Mar-23		•					•				
OMPLETION OF				0%		20-Feb-23	20-Feb-23	20-Feb-23 A	20-Feb-23 A			24-Mar-23	24-Mar-23											
C SZ.1170 Cc	Completion of Section 2 (Working Days)	0	0	100%	107%	92 Mar 02	20-Feb-23	97 May 95 A	20-Feb-23 A 13-May-25	51 Jun 22	12.104/06	07 May 20	24-Mar-23		•	111				•				
	nuction of MBR. Sludge Disgestor Building, Transformer Room			81.12%		27-Nov-25		27-Nov-20 A	02 Aug 24	11 Jul 22	73 Aug 22	27-307-20	19 Arr 16			111				1 1 2		<u>↓ ↓</u>		
	aceire Mointeing for Air and Noise	21	0	100%	100%	21-Jun-21	11-Jul-21	21-Jun-21 A	11-JUI-21 A	20100-20	SETTO YET	21-Jun-21	11-Jul-21										• • • • • • •	
cceptance of Tech	haire Ronard	4	0	100%	109.4	21-501-21 29-May-21	15Jup-21	29-May-21 A	15-Jun-21 A			21-JUII-21 28-Mar-21	02.Dec.21											
	cooplance of Technical Proposal of Proliminary Treatment System at CCSTW	13	đ	100%	107%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			19-302-21	02-Dec-21											
	cceptance of Technical Proposal for MBR System and MBR Building at CCSTW (E8M)	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			26-May-21	08-Jun-21											
	cosptance of Technical Proposal for MBR System and MBR Building at CCSTW (Civil & Structural)	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A				30-Apr-21	13-May-21											
	cosptance of Technical Proposal for Sludge Treament System at CCSTW	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			26-May-21	08-Jun-21											
	cospanse 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 8			26-May-21	08-Jun-21						1.1				1.1.1	
	cosptance of Technical Proposal for Temp. Works Design for the 1st 3 months of ECIS2	12	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			24-May-21	30-May-21											
	pproval of Technical proposal for accommodation of co-office	3	0	100%	100%	29-May-21	01-Jun-21	29-May-21 A	01-Jun-21 A			26-Mar-21	29-May-21											
	pprova of Technical Proposal for DIMA including application of prefabrication of MiC	3	0	100%	107%	23-May-21 01-Jun-21	15-Jun-21	20-May-21 A	15-Jun-21 A		-	20-Mar-21 30-Jun-21	14-Jul-21				<b>L</b>		1 1 1					
stallation of MiC		19		100%	100/10	62-Jun-21	29-Jun-21	02-Jun-21 A	29-Jun-21 A			24-Mar-21	14-Jul-21				-							
	elivery 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 24-Mar-21	29-Mar-21						1 1 1					
	restrety chrecounes on Mic Co-Office	18	2	100%	100%	02-Jun-21 04-Jun-21	29-Jun-21	02-Jun-21 A	29-Jun-21 A			24-Mar-21 19-Jun-21	29-Mai-21 14-Jul-21						111					
	estalation of Mic Co-Office	10	2	100%	100%	15-Jan-22	29-JUN-21 24-Nov-22	04-JUN-21 A 15-Jan-22 A	29-JUN-21 A 24-Nov-22 A			16-JUR-21 15-Jan-22	14-JU-21 24-Nm-22											
	ke of Inee 14 Ableting of Tree Transplant	4	Ð	100%	100%	15-Jan-22 15-Jan-22	20-Jan-22	15-J30-22 A 15-Jan-22 A	20-Jan-22 A			15-Jan-22	28-Feb-22					LL I	1 1 1					
		4	2	100%	100%	15-Jan-22 04-Apr-22	20-Jan-22 17-Sap-22					15-Jan-22 01-Apr-22						п.	ad an air finn in				n dan dan da	an an an far an far af
	koot prunning and Preparation Works for Transplanting Transplanting works	133	2	100%	100%	22-Nov-22	17-Sap-22 24-Nov-22	64-Apr-22 A 22-Nov-22 A	17-Sep-22 A 24-Nov-22 A			22-Nov-22	17-Sep-22 24-Nov-22											
		2		B7%	100%		294909-22	22-Nov-20 A					07-Feb-23						1 6				1.1.1	
	nitoring System (Remaining Works)	225	4	1005	100%	27-Nov-20	24.Jun-21	27-Nov-20 A 27-Nov-20 A	30-Jur-23 24-Jun-21 A	28-Feb-23	30-Jun-23	27-Nov-20 27-Nov-20	07-Heb-28 10-Jun-21	U										
	Complete all trial installation of monitoring devices and sensors and submitten installation Report for trial inst.		- 0			27-Nov-20																		
	reparation and submission of Draft Transmission Specification	196		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-Jan-21 A	31-May-23			11-Jun-21	28-Sep-22	0			-							
	Completion testing of data transmission and compatability to DSD's Data Information System	29	1	0%	0%			01-Jun-23		01-Jin-23	30-Jun-23	06-Jan-23	07-Feb-23	0			ШП						1.1.1	
	tion of Rock Socket Length for Socketed Steel H-Piles for PTF, SCB, SDB & SHT			100%		81-May-21	16-Aug-21	31-May-21 A	16-ALg-21 A			30-May-21	18-Aug-21											
	Rt. stural Design Review After Completion of Predrilling Works (Phase 1)	75	9	100%		31-May-21	09-Aug-21	31-May-21 A	09-ALg-21 A			30-May-21	68-Aug-21			1								
	CE Checking and Issuance of ICE certificate	7	0	100%	100%	10-Aug-21	16-Aug-21	10-Aug-21 A	16-ALG-21 A			10-Aug-21	16-Aug-21									J. J		
st Up of Tower Cr				DN-				04-Mar-23	15-Jul-23	04-Mar-23				19									1 1 1	
	abibiling of Tower Crane Erection	38	0	0%	0%			04-Mar-23*		04-Mar-23				0	•									
	Design and Approval of Tower Crane	28	0	0%	0%			22-Apt-23	19-May-23					20	•					-			1 1 1	
	Ne Foundation Construction of Tower Crane	34	0	0%	0%			20-Way-23		09-Jin-23				16	•					-				
	irection of Tower Crane	12	0	0%	0%			03-Jui-23	15-Jul-23	21-Jul-23				16	•				J. J.				Jaiak	
	IBR Treatment Facilities			57.21%		01-Apr-21		01-Apr-21 A	02-Aug-24	28-Feb-23		01-Apr-21	19-Apr-24	a		Т								
	ation and Delivery of Major E&M Equipment			58.57%		12-Jul-21		12-Jul-21 A	02-May-24	17-Mar-23	19-May-24	28-Aug-21	29-Ont-22	17			1111							
	entering 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				• • • •						1 1 1	
C.S3.1075b Eq	iquipment Submission and Approval	591	0	84.77%	70%	15-Oct-21		15-0:1-21 A	28-hiay-23*			15-0cl-21	29-Oct-22	20			1							
nourement.				0.65%		01-Nov-22		01-Nov-22 A	01-Aug-23	28-Jul-23	25-Dec-23			146										
DC.S3.1080a10 Mc		1	0	100%	100%	01-Nov-22	01-Nov-22	01-Nov-22 A	01-Nov-22 A						•				1 1					
DC.S3.1080a11 Pe	Pensiboks	1	0	0%	0%			01-May-23*	01-May-23	27-Asg-23	27-Aug-23			118	•					1 .			1.1.1	
DC.S3.1080e12 Su		1	0	100%	100%	02-Jan-23	02-Jan-23	02-Jan-23 A	02-Jan-23 A						•				104					
	eration Blowers & Air Scouring Blowers	1	0	0%	0%			01-Mar-23*		27-ALG-23				179	•				1 11					
C.S3.1080a14 Fir		1	0	0%	0%			01-May-23*		27-ALg-23				118	^			UU.	1.11	4		LULL		
C.S3.1080a15 Pe	Permente Pumps	1	0	D%.	0%			01-May-23*	01-May-23	27-ALg-23	27-Aug-23			118				I II II T	111	12.1				
DC.S3.1080a16 Dr	kain Pumps	1	0	DN-	0%			01-May-23*	01-h/ay-23	27-Aug-23	27-Aug-23			118	•									
C.S3.1080a17 R4	VAS Pumps	1	0	DN-	0%			01-May-23*	01-h/ay-23	27-Asg-23	27-Aug-23			118	•									
C.SJ.1080a18 W		1	0	0%	0%			01-Apr-23*	01-Apr-23		28-Jul-23			118	•				1 11					
	icum Skimming Devices	1	0	0%	0%			01-May-23*	01-May-23	28-Jul-23	28-Jul-23			88	•				1 11					
C.S3.1080a20 Cit	litric Acid Storage & Dosing System	1	0	0%	0%			01-May-23*	01-May-23	28-Jul-23	28-Jul-23			88	•				1 11	1				
	iocium Hypochlorite Storage & Dosing System	1	0	0%	0%			01-May-23*	01-May-23	28-Jul-23	28-Jul-23			88	•				1 11	1 i i i				
C.S3.1080a22 Lf		1	0	0%	0%		-	01-May-23*	01-May-23	20-Sep-23	20-Sep-23			142	•									
	Juplex Stan ess Steel Air Scouring System	1	0	DN-	0%			01-May-23*						118					1 11					
	S316 Pipework (For Art)	1	0	DN-	0%			01-Jun-23*	01-Jur-23	19-Nov-23				171	•									
	bre Gasket (or Air Pipevork	1	0	D%	0%			01-May-23*	01-h/ay-23		20-0cl-23			172	•			111	1-11-			h 11- h		
	Il Fipework (For Sevege)	1	0	0%	0%			01-May-23*	01-May-23	20-0cl-23	20-0cl-23			172	•									
C.S3.1080a27 UP		1	0	0%	0%			01-May-23*	01-May-23	20-Oct-23	20-0:1-23			172	•				1 11					
	PVC Pipevork Double Containment)	1	0	0%	0%			01-May-23*	01-May-23	20-Oct-23	20-0:1-23			172	•				1 11					
	alies for Process Picework (For Sevage and Alf)	1	0	0%	0%		-	01-Apr-23*	01-Apr-23		28-Jul-23			118	•				1 80					
C.S3.1080830 Ac		. 1	0	0%	0%		-	01-May-23*	01-May-23					118			+++++	+++-	十十十			+ +	·	
	Jeadorisation System Unit 2	1	0	0%	0%			01-Jun-23*		26-Sep-23				117										
			-													u II	11411		1 8 11	1 <b>6</b> 81 - 3				
Primar	ary Baseline	DC/201	9/07 01			SEWED	AGE STA	GE2 - UPG						MENT		spos	-	CILIT		Date		Revisio	n Che	ec Appro
		00/201	3101 01	ULTING	ISLAND:	3 JEWER								WENT.	AND DI	500	AL FA		-3	30-Nov-22	2 R	ev. 20	JL	CL
Actual	al Work						REVISE	D PROGR	AMME -	REV. 2	2 (28 Fe	ebruarv 2	2023)											
Rema	aining Work									4 of 13)										31-Dec-22		ev. 21		CL
	-								(i age	. 01 10)										28-Feb-23	R	ev. 22	JL	CL
Critica	al Remaining Work																							
	line Milestone																							

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					Workdone %				Early Finish			Early Start (Rev. Early Finish Total Amended 20) (Rev. 20) Float Activities	Q1 02	2 43		34 01 02 0	1 04 0	02 03 0	M 01 02	03 04 01	1 02
DC.S3.1080e32 LV Switchbor	rd and Notor Control Panels	1	0	0%	0%			01-Jul-23			26-0ct-23	117 *	41 317								
DC.S3.1080e33 VSD		1	0	0%	0%			01-Jun-23*			25-Dec-23	297	41 12				1.11				
DC.S3.1080e34 UPS with Isol	ation Transformer	1	0	0%	0%			01-Jun-23*	01-Jur-23												
DC.S3.1080s35 PLC Parel		1	0	DN-	0%			01-Aug-23*	01-Aug-23			56 *					21.1				
DC.S3.1080a36 Instrumentati	on	1	0	D%	0%			01-Aug-23*	01-Aug-23			56 *					5				
abrication				24.34%		01-Nov-22		01-Nov-22 A	03-Har-24	17-Mar-23	20-Mar-24	17	41 12		, I   I   I   I   I			1111			
DC.S3.1080b10 Membrane M	bdules	459	0	24.34%	24%	01-Nov-22		01-Nov-22 A	03-Mer-24*	17-Mar-23	20-Mar-24	17 *	1 1		d 101   📍		+	1			
DC.S3.1080611 Penstocks		135	0	0%	0%			02-May-23*	13-Sep-23	28-Asg-23	09-Jan-24	118 *					<u>a</u>		- E		÷
DC.S3.1080b12 Submersible	Mxers	257	0	22.18%	22%	02-Jan-23		02-Jan-23 A			09-Jan-24	116 *	11 12			4 <b>4</b>	e 📘				
DC.S3.1080b13 Aeration Blow	rers & Air Scouring Blowers	135	0	0%	0%			02-May-23*	13-Sep-23	28-Aug-23	09-Jan-24	118 *				-					
DC.S3.1080b14 Fine Bubble I	Diff.ner	135	0	0%	03			02-May-23*			09-Jan-24	118 *			400 1 1	-	ai 📗		- E - E		
DC.S3.1080b15 Permeste Pu		135	0	DN-	03,			02-May-23*	13-Sep-23			118					ai I				
DC.S3.1080b16 Drain Pumps		125		DN.	0%			02-Mar-23*	13-Sep-23			118							1		
DC.S3.1080017 RAS Pumps		125	0	D%	0%			02-May-23'				118			444-4-4			-	and the second		
			0		0%				13-Sep-23	28-HLG-23			-1.17		4 10 1 1 1		- I				
DC.S3.1380o18 WAS Pumps		185		0%				02-Apr-23*			09-Jan-24	118 *					<u>-</u>				
DC.83.1080b19 Soum Skimm		185	0	0%	0%			02-May-23*		29-Jul-23	09-Jan-24	60	11 12		d 101   1   1		Ĩ				
DC.S3.1080b20 Citric Acid St	orage & Dosing System	185	0	0%	0%			02-May-23*			09-Jan-24	00					TT				
	chlorite Storage & Dosing System	185	0	0%	0%			02-May-23*	13-Oct-23		09-Jan-24	00	1		d						
DC.S3.1080b22 Lifting Applia		165	0	D%,	03,			02-May-23*	13-Oct-23		03-Mar-24	142 *									
DC.S3.1080t23 Duplex Stain		135	0	DN-	0%			02-May-23*	13-Sep-23			118 *				.     **	<u>#</u>				
DC.S3.1080t24 SS316 Pipew	ork (For Ait)	105	0	DN-	0%			02-Jun-23*	14-Sep-23	20-Nov-23	03-b/ar-24	171 *	11				<u>#</u>				
DC.S3.1080u25 Fibre Gasket	for Air Pipevork	125	0	DN-	0%			02-May-23*	13-Sep-23	21-Oct-23	03-Mar-24	172 *	11			-	<u>#</u>				
DC.S3.1080x26 DI Fipework (		135	0	0%	0%			02-May-23*		21-0:1-23	03-Mar-24	172 *	11 11				# I				1
DC.S3.1080527 uPVC Pipew		135	0	0%	0%			02-May-23*		21-Oct-23	03-Mar-24	172 *				-	<u>a</u> :				
DC.S3.1080x28 uPVC Pipewi		135	0	0%	0%			02-Mae-23*		21-0:1-23	03-Mar-24	172 *	11 11			.	∦ ∥				
	ncess Pipework (For Sevage and Alr)	185	0	0%	0%			02-Apr-23*	13-Sep-23		09-Jan-24	118 *	11 112		400 1 1		4				
		185	0								09-Jan-24 09-Jan-24	118 -	41 112			-	1				1
DC.S3.1080b30 Actuator for \		125		0%	0%			03-May-23*	14-Sep-23				-11 -112				F I				
DC.S3.1080031 Deodorisatio			0	D%.	0%			02-Jun-23*	14-Sep-23			117 *	-+ : L <sup>2</sup>	ЦЦЦ	444-4-4		<u>1</u>				
DC.S3.1080t32 LV Switchoos	rd and Notor Control Panels	75	0	DN-	0%			03-Jul-23	15-Sep-23		09-Jan-24	116 *	11 11				ft 📗				
DC.S3.1080s33 VSD		30	0	0%	0%			02-Jun-23*		26-Dec-23		207 *							1		
DC.S3.1080b34 UPS with lad	alion Transformor	105	g	0%	0%			02-Jun-23*	14-Sep-23	27-Sep-23	09-Jan-24	117 *				.	<u>#</u>				
DC.S3.1080x35 PLC Parel		105	0	0%	0%			02-Aug-23*	14-Nov-23	27-Sep-23	09-Jan-24	56 *	11 117								
DC.S3.1080b36 Instrumentati	on	105	0	0%	0%			02-Aug-23*	14-Nov-23	27-Sep-23	09-Jan-24	56 *					÷.		1.1		
Dcikery				0%				02-Jui-23	02-May-24	10-Jan-24	19-May-24	17	<b>(</b>   1   1   1   1   1   1   1   1   1		10111		1	+			
DC.S3.1080c10 Membrare M	odules	60	0	0%	0%			04-Mar-24	02-b/ay-24	21-Mar-24	19-May-24	17 *					- E	4			
DC.S3.1080c11 Perstocks		32	0	0%	0%			14-Sep-23	13-Oct-23		08-Feb-24	118 *			1881 + 4		-ia		1.1		1
DC.S3.1080c12 Submersible	Myarz	30	0	0%	0%			16-Sep-23	15-Oct-23	10-Jan-24	08-Feb-24	116 *					-È				
DC.S3.1080c13 Aeration Biov		32	0	0%	0%			14-Sep-23	13-Oci-23	10-Jan-24	38-Feb-24	118	- 1		1 181 i R		-6				
DC.S3.1080c14 Fine Bubble I		30	0	0%	0%			14-Sep-23	13-Oci-23	10-Jan-24	08-Feb-24	118	+		d	,					
			0										-1117								
DC.S3.1080c15 Permeale Pu	nps	30	0	0%	0%			14-Sep-23	13-0cl-23	10-Jan-24	08-Feb-24	118 *					E		1 1		
DC.S3.1080c16 Drain Pumps		30	0	0%	0%			14-Sep-23	13-0c1-23	10-Jan-24	08-Feb-24	10	11 11			.	LE I				
DC.S3.1080e17 RAS Pumps		30	0	0%	0%			14-Sep-23	13-Oct-23		08-Feb-24	10	11 117				II I				
DC.S3.1080c18 WAS Pumps		30	0	0%	0%			14-Sep-23	13-Oct-23	10-Jan-24	08-Feb-24	110	- H		المناطلا		IF. J.			i	
DC.S3.1080e19 Soun Skimm		30	0	0%	03,			14-0ct-23	12-Nov-23	10-Jan-24	08-Feb-24	88 *									
DC.S3.1080c20 Citric Acid St	orage & Dosing System	30	0	DS-	03.			14-Oct-23	12-Nov-23	10-Jan-24	08-Feb-24	98 *			, 1 1 1 1 1 1 1	.	118				
DC.S3.1080c21 Socium Hype	chlorite Storage & Dosing System	32	0	DS-	0%			14-0ct-23	12-Nov-23	10-Jan-24	08-Feb-24	88 *	11 117		/IIII ! !		115				
DC.S3.1080c22 Lifting Appla	n e	32	0	0%	0%			14-0cl-23	12-Nov-23	04-Mar-24	02-Apr-24	142 *	1 1				4 <b>e</b> ,				
DC.S3.1080c23 Duplex Stain		32	0	0%	0%			14-Sep-23	13-OcI-23	10-Jan-24	08-Feb-24	118 *	11 112			.	-				
DC.S3.1080c24 SS316 Pipew		30	0	0%	0%			15-Sep-23			02-Apr-24	171 *			100-1-4		-				
DC.S3.1080c25 Fbre Gasket		30	0	0%	0%			14-Sep-23			02-Apr-24	172	11 117			.	-				1
DC.S3.1080c26 DI Pipework		30	0	0%	0%			14-Sep-23	13-Oct-23	04-Mar-24	02-Apr-24	172	11 11			.	-				
DC.S3.1080c27 UPVC Ppevo		30	0	0%	0%			14-Sep-23	13-Oct-23	04-Mar-24	02-Apr-24	172 *	11 117				-6				
		30	0	0%	0%						02-Apr-24	172	-11 - 112				-6				
DC.S3.1080c28 uPVC Pipews		30						14-Sep-23				172	-+ : L <sup>2</sup>	HHH	444-4-4	a ha ha ha ha ƙ		+++++++++++++++++++++++++++++++++++++++			
	acess Pipework (For Sevage and Air)		0	0%	0%			14-Sep-23	13-Ocl-23	10-Jan-24	38-Feb-24	18	비 배신				- L				
DC.S3.1080c30 Actualor for V		30	0	D%	0%			15-Sep-23	14-0cl-23	10-Jan-24	08-Feb-24	10	비 배가		7100 I I	.         [	E II				
DC.S3.1080c31 Decidorisation		30	0	0%	0%			15-Sep-23	14-0cl-23	10-Jan-24	08-Feb-24	10					T I				
DC.S3.1080e32 LV Switchood	ind and Motor Control Panels	30	0	0%	0%			18-Sep-23	15-Oct-23		08-Feb-24	10					<b>T</b>				
DC.S3.1080e33 VSD		15	0	0%	0%			02-Jul-23	16-Jul-23		08-Feb-24	207 *							1.1		
DC.S3.1080c34 UPS with lad	ation Transformer	30	0	0%	0%			15-Sep-23	14-Oct-23	10-Jan-24	08-Feb-24	117 *			100777		-				
DC.S3.1080x35 PLC Parel		30	0	0%	0%			15-Vor-23	14-Dec-23	10-Jan-24	08-Feb-24	56 ^	1 1		AHH I I					1	
DC.S3.1080c36 Instrumentati	on	32	0	0%	0%			15-Vor-23	14-Dec-23		08-Feb-24	56 *	11 11								
Indi & Structural Works				65.54%		01-Apr-21		01-Apr-21 A	29-Feb-24	28-Feb-23	29-Feb-24	01-Apr-21 30-April-23 0	4 ₩	111	<del>/////////////////////////////////////</del>		++++	4111			
DC.S3.109Ca Site Preparat	ion Works for Piling (including relocation of Existing Studge Storage Sheller)	23	- 4	100%	100%		03-Jul-21	31-May-21 A	03-Jul-21 A			31-May-21 03-Jul-21	11 🗜	<b>.</b>			1				
DC.S3.1090b Subjetting of		48	0	100%	100%		29-May-21	01-Apr-21 A	29-May-21 A			01-Apr-21 29-May-21	tto 🗯	ΗĤ	dilletet		1-11	-			
	ing for Pling Works	29	0	100%	100%		29 May-21	30-Apr-21 A	29-May-21 A			09-May-21 07-Jun-21	11 💵								
	ing for Filing vonsional and Set Piling Rig and Associated Equipment	9	0	100%	100%		24-Sep-21	24-Sep-21 A	24-Sep-21 A			24-Feb-22 04-Mar-22	11 11	11111			1 1				
		9	0	100%	100%	24-Sep-21 07-Oct-21		24-Sep-21 A 07-Oct-21 A				24-reo-zz 04-mar-zz 07-0ct-21 31-Jan-22	-11 비원								
	for pre-bored sock at H-piles (67 ros, dia610)		3				31-Jan-22		31-Jan-22 A				-11 - 112								
	ile Loading Test of Compression Pile	54	3	100%	100%		12-Apr-22	31-Jan-22 A	12-Apr-22 A			28-Feb-22 11-May-22	-+ : L <sup>1</sup>	1444			1-1-1	44.4.4			
	Test of Compression Pile	1	2	100%	100%		29-Sep-22	26-Sep-22 A	29-Stp-22 A			08-Stp-22 21-Sep-22	비 배려								
DC.S3.1111 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									
																Da	ate	Revi	ision	Chec	A
Primary Base	line	DC/201	9/07 OL	ITLYING I	ISLANDS	5 SEWER/	AGE STA	GE2 - UPG	RADING (	of Cheu	NG CHA	U SEWAGE TREATMENT AND D	ISPOS/	AL FA	CILITIES					++	
Actual Work							PEVISER	PROCP		REV 2	2 (28 Ez	ebruary 2023)				30-Nov		Rev. 20			CL
							INC VIGEL	rnook				551 dai y 2023				31-Dec	3-22 I	Rev. 21		JL	CL
	Vork								(Page	5 of 13)						28-Feb		Rev. 22			CL
Remaining V																				1~-	, ~ <b>-</b>
Critical Rema	ining Work																			·	



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Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 21<sup>st</sup> EM&A Report – April 2023



D	Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed X	Actual Workdone S	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	LiteFinish	Early Start (Rev. 20)	Early Finish (Rev. 20)	Total Ar Float Ar	mended the fitters	202	01 04	2022		2023		024	2025 02 03 04	2026
DC.83.1140	Pre-boring for Installation of Sheet Piles (Total 372nos., 3rigs)	184	0	100%	100%	31-Mar-22	24-Nov-22	31-Mar-22 A	24-Nov-22 A			31-Mar-22	24-Nov-22			<u></u>		- uc G		uz us 04	1 4		u. v. 4	
C.S3.1140a	Installation of Sheet Piles	92	1	100%	100%	18-Aug-22	06-Dec-22	16-Aug-22 A	06-Dec-22 A			16-Aag-22	06-Dec-22					-	-				111	
C.S3.1160a	Excevation to +3.0mPD	10	9	100%	100%	23-Nov-22	05-Dec-22	23-Nov-22 A	05-Dec-22 A			23-Nov-22	05-Dec-22						1					
DC.SS.1160b	Installation of waiting 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			1	11111	11 1	17					
DC.S3.1160c	Excavation to +0.5mPD	29	0	100%	100%	31-Dac-22	06-Feb-23	31-Dec-22 A	06-Fab-23 A			31-Dec-22	12-Jan-23						1				1 I I -	
DC.S3.1160d DC.S3.1160e	Installation of waiting and shull for ELS Layer 2 Excavation to -3 8mPD	15	0	100%	41%	30-Jan-23 20-Feb-23	18-Feb-23	30-Jan-23 A	18-Fab-23 A 10-Har-23	28-Feb-23	10-Mar-23	13-Jen-23 02-Fe0-23	0'-Feb-23 18-Feb-23											
DC.83.11606	Installation of walling and strut for ELS Layer 3	15	0	41.15%	41.5	23-P60-23		20-Feb-23 A 11-Mar-23		11-Mar-23		20-Feb-23	04-Mar-23	0					1					
DC.83.1160g	Excertain to 40 mmg and at on to ECO Expension	10	0	0%	0%			29-Mar-23	13-Apt-23	28-Mar-23	13-Acr-23	06-Mar-23	18-Mar-23	a	•				- 1	<b>.</b>				
DC.83.1160h	Installation of wailing and strut for ELS Layer 4	15	0	0%	0%			14-Ap+23	02-May-23	14-Apr-23	02-May-23	20-Mar-23	01-Apr-23	0	•					<b>L</b> • (				
DC.83.1160i	Excevation to -7.0mPD and concrete blinding layer	15	0	0%	0%			03-¥sy-23		03-May-23	19-May-23	03-Apr-23	13-Apr-23	0	•				11	hi t			1.1.1	
Substructure Constr	ustion (Water Tanks, Pump Room and Blower Room)			DN-				20-Vay-23	29-Nov-23	20-May-23	29-Nov-23			0							1		111	
DC.S3.1170a	Construction of File Cap (Grid 3-4)(B30m3, 4 pour)	41	0	DN-	0%			20-9ay-23	10-Jul-23	20-May-23	10-Jul-23			0	•					1 <b>1 1</b>				
DC.S3.1170a10	Removal of 4th Walling & Struts	7	0	D%-	0%			11-Jul-23	18-Jul-23	11-Jul-23	18-Jul-23			0	•				1	1 7 1			1 1 1	
	RC Wall Construction from -5.0mPD to -3.8mPD (150m3. 1 pour)	24	0	0%	0%			19-Jui-23	15-Aug-23	19-Jul-23	15-Aug-23			0	•									
	Removal of 3rd Wailing & Struts	7	0	0%	0%			18-Aug-23	23-Aug-23		23-Aug-23			0	•					<u> </u>				
	Construction of Pile Cap (Grid 1-3) & RC Wall (Grid 3-4) from -3.8mPD to +0.5mPD(1700m3, 9 pour)	50	0	0%	0%			08-Jui-23		08-Jul-23	04-Sep-23			0	•					2				
	Removal of 2nd Walling & Struts	9	0	0%	0%			05-Sep-23	14-Sep-23		14-Sep-23			0	•					13				
	RC Well Construction from +0.5mPD to +3.0mPD (\$50m3, 4 pour)	24	0	D%.	0% 0%			15-Sep-23 16-Oct-23	14-Ocl-23 26-Ocl-23	15-Sep-23 16-Oct-23	14-0ct-23 26-0ct-23			0						E.				
	Removal of 1st Wailing & Struts	9	0		0%			16-06-23 27-0ct-23	28-061-23 29-Nov-23					0						L C				
DC:S3.1170ad0	RC Wall and Roor Stab Construction from +3.0mPD to +4.60mPD (530m3, 3 pour) uttion Settlenson, hist Well and DOU Reput	29	0	DN-	0%			27-06-23 09-0ci-23	29-Nov-23		29-N09-23			0	· ·									
DC.S3.1180a	Installation of Shoot Files Wall	15	đ	0%	0%			03-00-23		05-001-23	26-0d-23			2	•					L.,				
	Excavation Work	17	0	0%	0%			27-0ct-23	15-Nov-23		15-Nov-23			0	·					<b>G</b>				
	Construction of Pile Cap (280m3, 2 pour)	21	0	0%	0%			16-107-23	09-Dec-23					0	•					<b>4</b>	, II I I			
	Construction of Wall and Ground Stab (150m3, 1 pour)	18	0	0%	0%			11-Dec-23		11-Dec-23				0	•					1 15				
	Backfilling and Removal of ELS	9	0	0%	0%			02-Jan-24	11-Jar-24					0	•									
Superstructural Con	struction (Oxid B - F)			0%				30-\\o+-23	08-Feb-24	30-Nov-23	08-Feb-24			0							++		1.1.1	
DC.S3.1190a	Wall and Column Construction from +4.65mPD to ~10.25mPD (290m3, 2 pour)	47	0	D%-	0%			30-\o+-23	26-Jar-24	30-Nov-23	26-Jan-24			0				11-1-	1	4	🗯 🔯	1	tototo:	- tritrit
DC.S3.1190a10	Wall, 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	08-Feb-24			0	•						- 14			
Superetructurel Con	etroclico (GidA+R)			0%				13-Jan-24	29-Feb-24	13-Jan-24	29-Feb-24			0										
DC.S3.11906	Wall, Column and Slab 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	•						<b>P</b>			
	Wall, Column and Roof Construction from +8.95mPD to +13.55mPD (210m3, 1 pour)	19	0	0%	0%			05-Feb-24	29-Feb-24	05-Feb-24					•				÷					
Design 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					1					
DC.S3.1220	Updating of Foundation and Pile Cap Design based on Technical Proposal	97	0	100%	100%	01-Jun-21	06-Sep-21	01-Jun-21 A	08-Sep-21 A			08-Jun-21	13-Sep-21			Lal	•		1				1.1.1	
DC.S3.1230	Other 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-Den-22				-		1					
DC.S3.1270	Architecture & Landscaping Desgn	578	0	83.27% DS	70%	30-Sep-21		30-Sep-21 A 09-Feb-24	30-Apr-23 02-Aug-24	04-Apr-23 09-Feb-24	04-Jun-23 02-Apg-24	30-Sep-21 31-Ocl-23	27-Feb-23	35			1		11			4		
DC.S3.1210	E&H, Mechanical Installation (MBR, Air Biower DO system, Pump, etc.)	60	10	0%	0%			05-Feb-24		09-Feb-24	02-90g-24 03-Jun-24	31-OcH23	19-Feb-24	a	-				+			+		
DC.S3.1210a	Electrical Installation (Cable, Instrument, PLC Planet, LVSB, etc)	80	10	0%	0%			05-Feb-24		09-Feb-24	03-Jun-24			0										
DC.83.1210b	Installation of BS Equipment	45	5	0%	0%			13-Mar-24	16-May-24	03-Apr-24	03-Jun-24			15										
DC.\$3.1210c	Installation of Lifting Applicance	45	5	0%	0%			13-Mar-24		03-Apr-24	03-Jun-24			15										
DC.S3.1220a	SCADA System Site Acceptance Test (Prase 1 MBR Construction)	30	0	0%	0%			14-Apr-24	13-May-24	14-May-24	12-Jun-24	30-Nov-23	29-Dec-23	30						-	4 🗎			
DC.S3.1220b	SCADA System Commissioning Test (Phase 1 MBR Construction)	30	0	0%	0%			13-Jun-24	12-Jul-24	13-Jin-24	12-Jul-24	28-Jan-24	27-Feb-24	0					T		<b>h</b>	-	1111	
DC.S3.1230b	Seeding of MBR System	30	0	D'S-	0%			04-Jun-24		04-Jun-24	03-Jul-24	20-Feb-24	19-Apr-24	0								4		
DC.S3.1230c	System Commissioning Test	30	0	DS-	0%			04-Jul-24	02-Aug-24	04-Jul-24	02-Aug-24			0										
nternal Architect				0%				09-Feb-24	29-Apr-24		03-Jun-24	31-Oct-23	01-Feb-24	28										
DC.S3.1200	Architectural Works (Internal)	60	2	0%	0%			09-Fob-24	29-4pr-24	16-Mar-24		31-Oci-23	0'-Feb-24	28					1 (					
	f Sludge Digestor Building with 3 Sludge Holding Tanks prication and Delivery of Major E&M Equipment			89.88% 75.83%		31-May-21		31-May-21 A 12, Jul 21 A	29-Nov-23	12-Mar-23	17-Dec-23 01-Det-23	31-May-21 12-Jul-21	11-Nov-23 18-Acc-23	18					1					
DC S3 1235a	Tencerino of Subcontrator	45	0	100%	100%	12-Jul-21	25.4 - 24	12-Jul-21 A	25-Aug-21 A	12-Mat-23	01-00-23	12-jul-21	18-Apr-23 25-Aup-21	20										
DC.S3.1235a DC.S3.1235b	Tendering of Subcontrator Equipment Submission and Approval	45	0	100%	100%	12-Jul-21 10-Aug-21	25-Aug-21	12-Jul-21 A 10-Aug-21 A	25-Aug-21 A 13-Apr-23	12-Mar-23	25,845,22	12-Jul-21 10-Aug-21	25-Aug-21 18-Oct-22	12		I É		11	-				1.1.1	
Procurement	ade pries animonal are Applicat	430	U	100%	60%	10-A0g-21 31-Jan-22	31-Jan-22	10-Aug-21 A 31-Jan-22 A	13-Apr-23 A	-2-1/81-23	23-942-23	10-Aug-21 10-Nov-21	18-061-22 10-Nov-21	14										
	Sturge Digester Feed Pump and Digested Studge Pump	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				HHH	#	+ N			+		
	Subge Digaster Air Bover	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	104Nov-21				1400	(L.)						
DC.S3.1240a11	Air Diffusion for Studge Digester	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				14.11							
DC.S3.1240a2	Submersible Mixer for Digested Sludge 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					41 1	$\pm 11$					
DC.S3.1240a3	Deodorization 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				1641	91 I						
DC.S3.1240a4	LV Switchcoside, 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				T Ball	111	1				1111	
DC.S3.1240a5	Variable Speed Drive (VSD)	1	0	100%	100%	31-Jan-22	31-Jar-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				184	91 F	11				111	
	Cable	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21											
DC.S3.1240a7	Pipe Work-Valve	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				184	91 F	11					
	Instrument	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				1		1				1.1.1.	
DC.S3.1240a9	Lifting Appliance	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21						1					
Febrication				67.39%		01-Feb-22		01-Feb-22 A	05-Sep-23	23-Mar-23	01-0ct-23	01-Feb-22	15-Jan-23	26									111	
	Sturge Digester Feed Pump and Digested Studge 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						<u>,    </u>					
	Slutge Digester Air Blower	189	0	100%	100%	01-Feb-22	20-Jul-22	01-Feb-22 A	20-Jul-22 A			31-Jul-22	15-Jan-23					-					111	
	Air Diffuser for Sludge Digester	240	0	100%	100%	01-Feb-22	28-Sep-22	01-Feb-22 A	28-Sep-22 A			01-Feb-22	28-Sep-22					-			<b>.</b>	÷		
	Submensible Mixer for Digested Sludge Holding Tank Deodorization Unit 4	154	0	100%	100% 90%	01-Feb-22 01-Feb-22	15-Jul-22	01-Feb-22 A 01-Feb-22 A	15-Jul-22 A 13-Ann-23	08-Apr-22	20.Nav.22	01-Feb-22 01-Feb-22	14-Jki-22 29-Dec-22	37					4					
															Ш			<u>. 1</u>	~		<u> </u>	<u> </u>		
Prin	nary Baseline	DC/201	9/07 OL	JTLYING I	SLANDS	S SEWER	AGE STA	GE2 - UPG	RADING C	F CHEU	ING CHA	U SEWAG	GE TREAT	MENT A	ND DISI	POSAI	L FACI	LITIES		Date	<u> </u>	Revision	Chec.	
Act	ual Work							PROGR												30-Nov-22		/. 20	JL	CL
							AL VIGEL	STROOM			- 120 1-6	or uary i	-320/							31-Dec-22		. 21	JL	CL
	maining Work								(Page	6 of 13)									ľ	28-Feb-23	Rev	1. 22	JL	CL
																			ŀ		<u> </u>			
	ical Remaining Work																		I					



ty ID	Activity Name	Ori. Dur (d)	TRA (d)	Time Elapsed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Lide Start	Late Finish	Early Start (Rev. 20)	Early Finish (Rev. 20)	Total /	mended ctivities	2021 2022 Q1 02 03 04 01 02 03 Q4	2123	2024	2025	2026
DC.S3.124064	LV Switchboards, Motor Control Centers and Associated Components	512	0	76.58%	76%	01-Feb-22		01-Feb-22 A	27-Jur-23	15-Apr-23	12-Aug-23	01-Feb-22	27-Sep-22	46	•					
DC.S3.124065	Variable Speed Drive (VSD)	190	0	100%	100%	01-Feb-22	30-Jul-22	01-Feb-22 A	30-Jul-22 A			01-Feb-22	30-Jtl-22				-			
DC.S3.124066	Cable	240	9	100%	100%	01-Feb-22	28-Sep-22	01-Feb-22 A	28-Sep-22 A			01-Feb-22	28-Sep-22						L	
DC.S3.124067	Pipe Work-Valve	351	0	100%	100%	01-Feb-22	28-Jan-23	01-Feb-22 A	28-Jan-23 A			01-Feb-22	14-Dec-22				4			
DC.S3.124068	Instrument	572	0	68.52%	68%	01-Feb-22		01-Feb-22 A		23-Mar-23		01-Feb-22	14-Dec-22	23	•					
DC.S3.1240u9 Delivery	Lifing Appliance	592	0	67.35% 69.12%	67%	01-Feb-22		01-Feb-22 A		26-Mar-23		01-Feb-22	14-Dec-22 18-Acc-23	26	•					
Civil & Structural	Warks			69.12% 76.04%		24-May-22 31-May-21		24-May-22 A 31-May-21 A	05-Sep-23 16-Sep-23	21-May-23 17-Mat-23	07-06-23	24-May-22 31-May-21	18-Apr-23 25 May-23	20					1.1.1	
DC.83.1250	Site Preparation Works for Piling (including removal of existing Sludge Tank)	38	4	100%	100%	31-May-21	17-Jul-21	31-May-21 A	17-Jul-21 A	T/MdF2a	57-00-25	31-May-21	17-Jul-21	21		┦ └╻┓ │ │ │ │ │ │ │ │ │ │ │ │				
DC.S3.1280a	Subjeting of Supply and Installation of ELS	29	0	100%	100%	01-Aug-21	29-Aug-21	01-Aug-21 A	29-Aug-21 A			01-Aug-21	29-Aup-21							
DC.S3.1280a10	Preliminary Pile and Pile Load Test	45	3	100%	100%	12-Jul-21	06-Sep-21	12-Jul-21 A	08-Sep-21 A			03-Dec-21	04-Feb-22						1.1.1	
DC.S3.1280b	Piling works for pre-bored sockel H-piles (37 ros. dis610, fiteern)	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%	01-Nov-21	31-Mar-22	01-Nov-21 A	31-Mer-22 A			01-Nov-21	30-Mar-22						1.1.1	
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						111	
DC.83.1300	Excavation for basement of Studge Digestor Building (3425m3 exca, 1 team)	111	2	100%	100%	10-May-22	22-Stp-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	19-Jan-22 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			25-Nov-21	19-Jan-22							
DC.\$3.1310c	Construction of Pile Cap. (Grid 2-4)	64	2	100%	100%	20-Sep-22	08-Dec-22	20-Sep-22 A	08-Dec-22 A			20-Sep-22	08-Dec-22							
DC.SS.1310d	Removal of Formwork and Backfilling and Removal of ELS (Layer 3)	23	0	100%	100%	09-Deo-22	03-Jan-23	09-Dec-22 A	03-Jan-23 A			09-Dec-22	24-Dec-22							
DC.S3.1312e	Construction of Underground Well (Grid 2-4) (from -1.2mPD to +1.0 mPD)	23	0	100%	100%	64-Jan-23	01-Feb-23	D4-Jan-23 A	01-Feb-23 A			27-Dec-22	20-Jan-23			1 1 1	1			
DC.SS.1310f	Removal of Formwork and Backfilling and Removal of ELS (Layer 2)	15	0	100%	100%	02-Feb-23	18-Feb-23	02-Feb-23 A	18-Feb-23 A			21-Jen-23	05-Feb-23				1 1		1 1 1	
DC.53.1310g DC.53.1310h	Construction of Underground Well (Grid 2-4) (from +1.0mPD to +3.1mPD) Removal of Formwork and Backliting and Removal of ELS (Layer 1)	22	0	22.72%	31% 0%	20-Feb-23		20-Feb-23 A 20-Mar-23	18-Har-23 25-Har-23	17-Mar-23 11-Apr-23	06-Apr-23 17-Apr-23	07-Feb-23 28-Feb-23	27-Feb-23 14-Mar-23	15	•		₫.			
DG 83 13101	Construction of ground stab (Grid 2-4) (from +3.1mPD to +4.4mPD, 180m3, 1 pour)	6 22	0	0%	0%			20-Mar-23 27-Mar-23	25-Her-23 25-Apr-23		17-9p*-23 22-May-23	28-red-23 15-Mar-23	14-Mar-23 28-Apr-23	22						
DG.83.1310 DG.83.1330	Installation of ELS and excavation for pile cap of Sludge Hidding Tanks (523m3)	6	0	0%	0%			27-Mar-23 17-Jul-23	25-Apt-23 22-Jul-23	20-Apr-23 04-Aug-23	22-669-23 10-Aug-23		20-Apr-23 21-Mar-23	16	•	11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1			
DC.83.1340	Construction of RC structure of Sludge Holding Tariks (below ground, 210m3, 1 pour)	12	0	0%	0%			24-Jul-23	05-Aug-23		24-Aug-23	22-Mar-23	04-Apr-23	16	•		4			
DC.S3.1350	Removal of Formwork and Backfilling to ground level and removal of ELS (Sludge Holding Tank)	6	0	0%	0%			07-Aug-23			31-Aug-23	0E-Apr-23	19-Apr-23	16	*					
DC.\$3.1351	Construction of RC superstructure (Sludge Holding Tank) (\$75m3. 2 pour)	32	0	0%	0%			14-Auc-23			07-0ct-23		25-Mev-23	16	*					
DC.SS.1360a	Construction of RC Wall (Gride 2-4) (from +4.4mPD to +9.15mPD, 100m3, 1 pour)	24	0	DN-	0%			26-Ap1-23	24-h/ay-23	23-May-23	20-Jun-23			22	*	+  <b>-</b>  -+ + ++++ + +- <b>-</b>			1-1-1	
DC.53.1363b	Construction of RC Weil (Gride 2-4) (from +9.25mPD to +12.3mPD, 50m3, 1 pour)	23	g	0%	0%			25-9ay-23	17-Jur-23	21-Jun-23	15-Jul-23			22	•		14 1			
DC.83.1363c	Construction of RC Reof Stab (Gride 2-4) (200m). 1 pour)	18	g	0%	0%			19-Jun-23	08-Jul-23	17-Jul-23	03-Aug-23			22	•					
DC.83.1383d	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	•		19			
DC.S3.1380e	Construction of RC pile cap. (Grid 1-2) (85m3, 1 pour)	12	0	0%	0%			12-Ap1-23	25-4pt-23	29-Apr-23	13-May-23			15	•		9 9 7			
DC.S3.1360f	Construction of RC ground sisb (Gride 1-2) (80m3, 1 pour)	18	0	0%	0%			26-Ap+-23	15-May-23	15-May-23	02-Jun-23			15	•		1			
DC.S3.1360g	Backfilling to ground level and removal of ELS (Gride 1-2)	6	0	0%	0%			16-9sy-23	22-May-23		09-Jun-23			15	•				1.1.1	
DC.SS.1360h	Construction of RC Wall and Siat (Gride 1-2) (from +4.4 mpD to +9.15mpD) (90m3, 1 pour)	2'	0	0%	0%			23-9sy-23	16-Jur-23	10-Jin-23	06-Jul-23			15	*					
DC.SS.1360i	Construction of RC Weil (Critie 1-2) (from +9.15mpD to +12.3mpD) (35m3, 1 pour)	17	0	D%.	0%			17-Jun-23	08-Jul-23		26-Jul-23			15	*				1 1 1	
DC.S3.1360j E&MWorks	Construction of RC Roof Stab (Gride 1-2) (110m3) (110m3, 1 pour)	17	ŋ	D%	0%			10-Jui-23	28-Jul-23		15-Aug-23			15	•					
DC.S3.1383a	Installation of Submonsible Mixer, Air Blover, Air Diffuser, Feed Pump, DOU	55	9	0% 0%	0%			10-Aug-23	29-Nov-23	28-Aug-23	17-Dec-23	26-Jul-23 26-Jul-23	11-Nov-23 28-Sep-23	18						
DC 53 13836	Instalation of Scondistice Water, Air Brower, Air Dilluser, Feed Pump, DOO Installation of Cable Containment & Conduit	25	0	0%	0%			10-Aug-23 10-Aug-23			03-Nov-23 25-Sep-23		28-Sep-23 23-Aug-23	10						
DC.83.1380c	Installation of BS Equipment, Cable, Instrument, P. C Panel	43	0	0%	0%			25-Aut-23	16-Oct-23		23-369-23 03-Noy-23	20-00-23 10-Aug-23	28-Sep-23	15						
DC.S3.1380c10	Installation of Lifting Applicance	25	0	0%	0%			02-Sep-23	26-Sep-23	10-0ct-23	03-Nov-23	to neg to	NO OUP NO	38					1.1.1	
DC.S3.1380d	SAT of Equipment	7	0	0%	0%			17-0ct-23	25-Oct-23	04-Nov-23	11-Nov-23	29-Sep-23	12-Oct-23	15	-	+	1			
DC.53.1380d10	Seeding for sludge dicestion system	14	0	DS-	03.			17-0ct-23	30-Oct-23	04-Nov-23	17-Nov-23			18						
DC.53.1390a	SCADA System Site Acceptance Test (Prese 1 Sludge Digestor Building Construction)	30	0	0%	0%			09-Sep-23	05-Cc1-23	19-0ct-23	17-Nov-23	25-Aug-23	23-Sep-23	40					1 1 1	
DC.S3.1390b	SCADA System Commissioning Test (Phase 1 Studge Digestor Building Construction)	30	0	0%	0%			09-0cl-23	07-509-23	18-Nov-23	17-Dec-23	24-Sip-23	23-Oct-23	40			<b>1</b>			
DC.S3.1400b	System Commissioning Test	30	0	0%	0%			31-0cl-23	29-Nov-23	18-Nov-23	17-Doc-23	13-Oci-23	11-Nov-23	18						
Internal Architec	tural Works			0%				18-Jul-23	03-Oct-23	04-Aug-23	20-0ct-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-Aug-23	20-0ct-23	26-Jul-23	10-Nov-23	15						
	f LV Main Switch Room, Transformer Room			78.26%		12-Jul-21		12-Jul-21 A	02-Aug-23	09-Mar-23	17-Dec-23	12-Jul-21	02-Aug-23	137						
	brication and Delivery of Major E&M Equipment			97.39%	4020	12-Jul-21	ar 1 a 1	12-Jul-21 A	15-War-23	20-Aug-23	04-Sep-23	12-Jul-21	18-Msy-23	173			7			
DC.S3.1405a	Tendering of Subcontrator	45	0	100%	100% 100%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-Aug-21 A			12-Jul-21	25-Aug-21 18-Dec-21			╢╍╡╍╠┇ <mark>╏</mark> ┻╋╫╢╸┥╍┥╸┝	-4-1-4		·	
DC.S3.14055 DC.S3.1410a	Equipment Submission and Approval Procurement	140	0	100%	100%	10-Sep-21 14-Feb-22	18-Dec-21 14-Feb-22	10-Sep-21 A 14-Feb-22 A	18-Dec-21 A 14-Feb-22 A			10-Sep-21 20-\dar-22	16-Dec-21 18-Apr-22							
Febrication	Provincent.	62	U	100%	100%	14-Feb-22 18-Jan-22	14-Feb-22 25-Feb-23	14-Fgb-22 A 18-Jan-22 A	14-Feb-22 A 25-Feb-23 A			20-Mar-22 18-Jan-22	18-Apr-22 16-May-23				┥║║╿			
DC.S3.1410b	Cable	247	0	100%	100%	18-Jan-22	20+60-23 22-Sep-22	18-Jan-22 A 18-Jan-22 A	20-Ft0-23 A 22-Stp-22 A			18-Jan-22	13-Nov-22							
	U Switchosed, Mater Control Centers and Associated Components	118	0	100%	100%	31-Ort-22	25-Feb-23	31-0:5-22 A	25-5eb-23 A			31-0d-22	18-May-23							
Delkery	ca careful and a second a second a second second second	1.0		86.89%	10010	01-Sep-22	2010020	01-Sep-22 A	15-War-23	20-ALG-23	04-Sep.23	14-Nov-22	18-Apr-23	173		a na a sa	- <b></b>			
DC.S3.1410a	Cable	21	Ð	100%	100%	01-Sep-22	22-Sep-22	01-Sep-22 A	22-Sep-22 A	roreg to	0- 000 10	14-Nov-22	13-Dec-22			•				
	CLV Switchcosind, Motor Control Centers and Associated Components	18	0	11.11%	03.	26-Feb-23		26-Feb-23 A		20-ALg-23	04-Sep-23	20-\/ar-23	18-Apr-23	173			₩			
Civil & Structural				100%		04-Oct-21	31-Jan-23	84-05521 A	31-Jan-23 A			04-Oci-21	81-Jan-23				•/			
DC.S3.1423	Piling works for pre-bored sockal H-piles (17 ros. dia510) (1team)	54	5	100%	100%	15-Oct-21	16-Nov-21	15-Oct-21 A	18-Nav-21 A			28-Feb-22	02-Apr-22							
DC.83.1430	Pro-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							
D0.\$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							
DC.S3.1450	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							
	Subletting 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							
DC.S3.1460a	Installation of ELS and excervation 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.S3.1463b	Construction of RC structure (pile cap)	25	2	100%	100%	25-Jun-22	28-Jul-22	25-Jun-22 A	28-Jul-22 A		-	31-May-22	02-Jkl-22							
DC.S3.1460b DC.S3.1470			1	100%	100%	29-Jul-22	15-Aug-22	29-Jul-22 A	15-ALG-22 A			19-Jul-22	03-Aug-22							1.1.1
DC.S3.1460b	Removal of formetriks, faiteworks, backfilling hass filling and removal of ELS	13	_														0.1		n Chec	Approv
DC.S3.1462b DC.S3.1472 DC.S3.1460	Removal of formetriks, faiteworks, backfilling inters filling and removal of ELS	DC/2014	07.01	ITLYING		SEWED	AGE STA	GE2 - LIPC	PADING			LISEWAG		MENT 4	ND DR	ISPOSAL FACILITIES	Date	Revision	i chec.	Appiov
DC.S3.1460b DC.S3.1470 DC.S3.1480 Print	Remonal of formetrics, fasteworks, backfilling and remonal of ELS many Baseline	DC/2019	9/07 OL	UTLYING	ISLAND									MENT A	ND DI	ISPOSAL FACILITIES	30-Nov-22	Rev. 20	JL	CL CL
DC.S3.1460b DC.S3.1470 DC.S3.1460 Print Act	Remone of Brancoks, Sakeroks, Sachti inghass Ming and remonit of BLS many Baseline Lual Work	DC/201	9/07 Ol	UTLYING	ISLAND			GE2 - UPG D PROGR	AMME -	REV. 2	2 (28 F			MENT A	ND DI	ISPOSAL FACILITIES	30-Nov-22	Rev. 20	JL	CL
DC.S3.1460b DC.S3.1470 DC.S3.1460 Print Act	Remonal of formetrics, fasteworks, backfilling and remonal of ELS many Baseline	DC/2011	9/07 Ol	UTLYING	ISLAND				AMME -		2 (28 F			MENT A	ND DI	ISPOSAL FACILITIES	30-Nov-22 31-Dec-22	Rev. 20 Rev. 21	JL JL	CL CL
DC.S3.14605 DC.S3.1470 DC.S3.1480 Print Act	Remone of Brancoks, Sakeroks, Sachti inghass Ming and remonit of BLS many Baseline Lual Work	DC/201!	9/07 OL	UTLYING	ISLAND				AMME -	REV. 2	2 (28 F			MENT A	ND DI	ISPOSAL FACILITIES	30-Nov-22	Rev. 20	JL JL JL	CL



	Activity Name	Ori. Dur (d)	TRA (d)	Time Elapsed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev 20)	(Rev. 20)	Total Amende Float Activitie	d s Q1	2021	4 01 03	022	2023 Q1 Q2 Q3 Q	4 91 07	2024 2 Q3 Q4 Q1 I	2025	2026
DC.S3.1490a	Subletting 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					-		1			
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			1010			h				
E&M Works				1.89%		25-Feb-23		25-Feb-23 A	02-Aug-23	22-Jil-23	17-Dec-23	16-Feb-23	02-Aug-23	137			11.	i. i.					
DC.S3.1560	Installation of other E&M equipments	70	2	D%	03.			01-Ap-23		23-ALg-23	17-Nov-23	19-Apr-23	03-Jul-23	115									
DC.S3.1500b	Installation of Electrical System	70	2	D%	0%			01-Ap+23		25-Aug-23	17-Nov-23			117	_	1							
DC.53.1500c	Installation of SCADA	35	0	D%	0%			15-¥ey-23	28-Jur-23	07-Ocl-23	17-Nov-23			120	_								
DC.53.1500d	Installation of BS System	45	0	0%	0%			03-9ey-23	28-Jur-23	23-Sep-23	17-Nov-23			120	_	1							
DC.83.1510	Site Acceptance Test	30	0	0%	0%			04-Jul-23	02-Aug-23	18-Nov-23	17-Dec-23	04-Jul-23	02-Aug-23	137									
	/emerRoom		2	2.38%		25-Feb-23		25-Feb-23 A	30-Jur-23	22-Jul-23	17-Nov-23	16-Feb-23	20-Jun-23	140									
DC.S3.1530a DC.S3.1530b	Installation of BS equipment at CLP Transformer Room Site Accession - Test	34	2	5.58% 0%	0%	25-Feb-23		25-Feb-23 A	12-Apr-23 16-Apr-23	22-Jul-23	30-Aug-23	16-Feb-23	29-Mar-23	116	_								
DC.S3.15300 DC.S3.15300	CLP Inspection and Defect Rectification	4	0	D%	0%			13-Ap+23 17-Ap+23		31-Aug-23 D4-Sep-23	03-Sep-23 13-Sep-23	30-Mar-23 02-Apr-23	02-Apr-23 20-Apr-23	140	_								
DC.S3.15306	CLP Inspector and Detect Redification	9	0	D%	0%			27-Apr-23	02-h/av-23			21-Apr-23	20-Apr-23 25-Apr-23	116	_								
DC.S3.1530d DC.S3.1530d10	Temporary Reinstelement of Access for CLP's Works	12	0	D%	0%			27-Apr-23		05-Sep-23		21-#pt=23	20-Mpr-23	117			++	ta ta	2				e an free a far a f
DC.83.1530a10	Handover to CLP for CLP's Works	45	0	0%	0%			03-Vev-23	29-Jur-23	19-860-23	16-Nov-23	28-Apr-23	19-Jun-23	116	_								
DC.83.15306	Engerizing	1	0	0%	0%			30-Jun-23	30-Jun-23	17-Nov-23	17-Nov-23	20-Jun-23	20-Jun-23	116	-	1							
Internal Architect				45.1%	6.4	01-Feb-23		01-Feb-23 A	31-Mar-23	08-Mar-23	22-Aug-23	01-Feb-23	24-Mar-23	115					-				
DC.83.1550	Anchitectural Works (Internal)	48	5	45.1%	33%	01-Feb-23		01-Feb-23 A	01 000 00		22-Aug-23	01-Feb-23	24-Mar-23	115					+				
DC.83.1560	Architectural Works for CLP Transformer Room (Internal)	42	1	53,49%	100%	01-Feb-23		01-Feb-23 A	22-War-23	09-Mar-23	31-b/ar-23	01-Feb-23	15-Feb-23	a *	-				4				
	f Underground Utilities			0%		0110020		18-Sep-23	30-Oct-23	08-00-23	17-Nov-23	14-Jun-23	25-Jul-23	16				1.1.	/				
DC 53 1600	Construction of Brainage and Severage System. Fire Services, Electrical & Pluncing Undergound Utilities	32	2	DN.	0%			18-Sep-23		08-0:1-23		14-Jun-23	25-11-23	16		- 51			/ ↓↓↓+				
Temporary Slug	lae Digestion System			97.6E%-		24-Jun-22		24-Jun-22 A	30-Dec-23	18-Dec-23	30-Dec-23	24-Jun-22	29-Nov-23	0				+	<b>╲</b> ┥┥┥┥┥┥┥┥┥				
DC.S3.1700	Construction of Temporary Studge Digestion System 180	85	3	100%	100%	24-Jun-22	10-OcI-22	24-Jun-22 A	10-0ci-22 A			24-Jun-22	10-Oct-22						N				
DC.83.1710	Temporary Row Diversion and isolate existing aerobic studge diges or and relevant buildings	8	1	100%	100%	11-Oct-22	20-Oct-22	11-0:0-22 A	20-0ct-22 A			11-Oci-22	20-Oct-22										
DC.S3.1720	Removal of Temporary Skidge 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	-			
	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-Oct-22	09-Dec-22			1		-	1 <b>1</b>				
Demolition wor				100%		20-Oct-22	24 Nov-22	20-0:t-22 A	24-Nov-22 A			20-Oct-22	09-Dec-22										
DC.S3.2010	Demolition of existing Aerobic Studge Digestor	29	0	100%	100%	21-Oct-22	24-Nov-22	21-0ct-22 A	24-Nov-22 A			21-Oct-22	09-Dec-22										
DC.S3.2020	Demolition of existing Blower and Pump House	29	0	100%	100%	21-Oct-22	24-Nov-22	21-0ct-22 A	24-Nov-22 A			21-Oct-22	09-Dec-22					- <b>4</b>					
DC.S32030	Demolition of existing Genset Room	29	0	100%	100%	21-Oct-22	24-Nov-22	21-0:t-22 A	24-Nov-22 A			21-Oct-22	09-Dec-22					- L <b>.</b>					
DC.S32040	Disconnecting data link of removed existing equipment from the existing SCADA system	7	0	100%	100%	20-Oct-22	26-Oct-22	20-0:t-22 A	28-0ct-22 A			20-Oct-22	26-Oct-22					4					
PHASE 3 - Con	struction of Preliminary Treatment Facilities			53.12%		12-Jul-21		12-Jul-21.A	06-Aug-24	28-Feb-23	06-Aug-24	12-Jul-21	23-Apr-24	0		- 51					÷:		
Construction of	f Preliminary Treatment Facilities			53.31%		12-Jul-21		12-Jul-21 A	02-Aug-24	28-Feb-23	02-Aug-24	12-Jul-21	19-Apr-24	0									
Procurement, Fai	brication and Delivery of Najor E&M Equipment			61.25%		12-Jul-21		12-Jul-21 A	10-Har-24	21-Mar-23	08-Jun-24	12-Jul-21	14-Dec-22	80			1111	4 m - 44 m -	┉┫┉┉┫╪┝╉┾╼				
DC.S3.3005a	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			-							
DC.S3.3005b	Equipment Submission and Approval	544	0	83.09%	50%	03-Dco-21		03-Dec-21 A	30-War-23*	21-Mar-23	20-Jun-23	03-Dec-21	14-Dec-22	21									
Procurement				0%				01-Jun-23	01-Dec-23	14-0:1-23	11-Feb-24			72				- N	· · · · · · · · ·				
DC.S3.3015	Stoplag	1	0	0%	0%			01-Aug-23*	01-Aug-23	02-Dec-23	02-Dec-23			123									
DC.S3.3025	Perstock	1	0	0%	0%			01-Aug-23*	01-Aug-23					123									
DC.S3.3035	Mechanical Bar Screen - Coarse Screen	1	0	0%	03,			01-Aug-23*						123 *									
DC.S3.3045	Screw Conveyor	1	a	0%	03,			01-Aug-23*	01-Aug-23	02-Dec-23	02-Dec-23			123 *				1.1					
DC.S3.3055	Screw Compatter	1	9	0%	03,			01-Aug-23*	01-Aug-23	02-Dec-23	02-Dec-23			123 *									
DC.S3.3065	Submenzible Pump	1	0	D%	0%			01-Aug-23*	01-Aug-23	02-Dec-23	02-Dec-23			123									
DC.S3.3075	Submonsible Je: Mixer	1	0	0%	0%			01-Aug-23*						123									
DC.S3.3385	Gri Punç	1	0	0%	0%			01-Aug-23*	01-Aug-23	02-Dec-23	02-Doc-23			123 *		1							
DC.\$3.3095	Grit Classifier & Grit Mixer	1	0	0%	0%			01-Aug-23*	01-Aug-23					123 *									
DC.\$3.3105	Mechanical Filter Mean	1	0	0%	0%			01-Aug-23*						123	_								
DC.S3.3115	Lifting Appliance	1	0	0%	0%			03-Jul-23		06-Dec-23				156 *	_		11						
DC.S3.3125	OI Skimmer Pump	1	0	0%	0%			01-Aug-23*		02-Dec-23				123 *	_			1.1					
DC.S3.3135	Decidorization Unit (DOU*)	1	0	0%	0%			01-Aug-23*						123 ^		1.1							
DC.S3.3145	LV Switchtosrd/MCC	1	0	D%	0%			01-Aug-23*	01-Aug-23	13-Duc-23	13-Dec-23			134				: II					
DC.S3.3155	VSD	1	0	D%	0%			01-Aug-23*		13-Dec-23				134									
DC.S3.3165	UPS with Isolation Transformer	1	0	0%	0%			02-Ocl-23*		11-Feb-24	11-Fob-24			132 *		1.1		1. J.I					
DC.S3.3175	PLC Parol	1	0	0%	0%			01-Dec-23*						67 *					, I IIIF	-			
DC.\$3.3185	Instrumentation	1	0	0%	0%			01-Jun-23*		14-Oct-23				135 *				5 J I					
Fabrication				0%				02-Jun-23	09-Feb-24	15-Oct-23	09-May-24			90		1.10				T			
DC.S3.3195	Stoping	125	0	0%	0%			02-Aug-23	04-Dec-23	03-Dec-23	05-Apr-24			123 *		1 9				4			
DC.S3.3205	Persizzk	125	0	D%	0%			02-Aug-23		03-Dec-23				123				1		<b>3</b>			
DC.S3.3215	Machanical Bar Screen - Coarse Screen	125	0	D%-	0%			02-Aug-23		03-Dec-23				123						3			
DC.S3.3225	Screw Conveyor	125	0	D%-	0%			02-Aug-23		03-Duc-23				123						4			
DC.S3.3235	Screw Compactor	125	0	D%	0%			02-Aug-23		03-Dec-23				123 *				5 I I	+	1			
DC.83.3245	Submersible Pump	125	0	0%	0%			02-Aug-23	04-Dec/23					123		10.00				3			
DC.S3.3255	Subnersible Jet Mixer	125	0	0%	0%			02-Aug-23		03-Dec-23				123				1. J.I.	1		4		
DC.\$3.3265	Grit Punc	125	0	0%	0%			02-Aug-23	04-Dec-23					123					1	3			
DC.S3.3275	Grit Classifier & Grit Mixer	125	0	0%	03,			02-Aug-23		03-Dec-23				128		1			1				
DC.S3.3285	Mechanical Filter Mesh	125	0	D%	0%			02-Aug-23		D3-Dec-23				123						3			
DC.S3.3295	Lifing Applance	155	0	D%-	03.			04-Jui-23		07-Dec-23				156				11					
DC.S3.3305	OI Skimmer Partp	125	0	D%	0%			02-Aug-23	04-Dec-23					123									
DC.S3.3315	Deciderization Unit (DOU*)	125	0	D%-	0%			02-Aug-23	04-Dec-23					123									
DC.83.3325	LV Switchcosrd/MCC	125	0	0%	0%			02-Au <sub>8</sub> -23	04-Dec-23	14-Dec-23	16-Apr-24			134 *	Ш			11			<u> 14 H</u>	<u> </u>	
Prir	mary Baseline	DC/2019	9/07 OU		SLANDS	SEWER	AGE STAC	SE2 - LIPGI	RADING	DE CHEU	ING CHA	U SEWA	GE TREAT	MENT AND	DISPO	SAL FA	CILITIE	s	Date		Revision	Chec	
	ual Work	5572013													-101 01			•	30-Nov-22	Rev	v. 20	JL	CL
Act							REVISEL	PROGR				eoruary	2023)						31-Dec-22	Re	v. 21	JL	CL
	maining Work	1							(Page	8 of 13)									28-Feb-23		v. 22	JL	CL
Re	manning work																						
	lical Remaining Work								(	,									20-1-60-23	Iner	Y. 22	JL	105



viv D	Letisfic kima	Orl. Dur (d	TPA //A	Time Element N	Actual Actual Start	Actual Finish Early Start	Early Finish	Lide Start Lide Finish Early Start (Re	Early Einish Total Amended	2021 2022 2023 2024 2025 2026
D0.00.000	VSD	125	0	and the second of the	Actual Actual Start Workdone %			20)		
DC.\$3.3335	VSD UPS with Isolation Transformer	125	0	0%	0%	02-Aug-23	04-Dec-23 06-Dec-23		134	
DC.S3.3345 DC.S3.3355	PLC Parel	70	0	0% 0%	0%	03-Det-23 02-Det-23	09-5eb-24		132 -	
DC.S3.3365	Instrumentation	195	0	D%	0%	02-Jet-23 02-Jun-23	03-Dec-23		135	╸╸┥╸┝╺╠╫┿┥┥╸┥╸┥╸╢╸ <mark>╸┥┥<mark>┙╻</mark>╹╻<mark>╴</mark>┟╞┆╴┝╸╸<mark>┥╴┼╸┝╸╸</mark>┝╸╵╸</mark>
Deikery	nishtir offatori	120	0	D%	0%	04-Dec-23	10-Har-24	D6-Apr-24 08-Jun-24	90	
DC.S3.3375	Sloping	30	0	D%	0%	05-Dec-23	03-Jar-24		123	
DC.S3.3385	Persidek	32	0	DN-	0%	05-Dec-23	03-Jar-24		123	
DC.83.3395	Mechanical Bar Screen - Coarse Screen	30	0	0%	0%	05-Dec-23	03-Jan-24	06-/or-24 05-May 24	123 *	
DC.\$3.3405	Screw Conveyor	30	0	0%	0%	05-Dec-23	03-Jar-24	06-Apr-24 05-May-24	123 *	
DC.\$3.3415	Serew Compactor	30	0	0%	0%	05-Dec-23	03-Jar-24	06-Apr-24 05-May-24	123 *	
DC.\$3.\$425	Submensible Pump	30	0	0%	0%	05-Dec-23	03-Jar-24	06-Apr-24 05-May-24	123 *	
DC.S3.3435	Submensible Jet Mixer	30	0	DN-	0%	05-Dec-23	03-Jar-24	D8-Apr-24 05-May-24	123 *	
DC.S3.3445	Grit Pump	30	0	DN-	0%	05-Dec-23	03-Jar-24	D6-Apr-24 05-May-24	123 '	
DC.S3.3455	Grit Classifier & Gril Mixer	30	0	DN-	0%	05-Dec-23	03-Jar-24		123 '	
DC.83.3465	Mechanical Filter Mean	30	0	0%	0%	05-Det-23	03-Jan-24		123 *	
DC.83.3475	L fing Applance	30	0	0%	0%	06-Dec-23	04-Jan-24		156 *	
DC.S3.3485	OI Skimmer Pump	30	0	0%	0%	05-Dec-23	03-Jar-24		123	
DC.S3.3495 DC.S3.3505	Deadbrization Unit (DOU') EV Switchnes rdMCC	30 30	0	0% D%	0%	05-Dec-23 05-Dec-23	03-Jar-24 03-Jar-24	06-Apr-24 05-May-24 17-Apr-24 16-May-24	123 *	
DC.53.3505 DC.53.3515	VSD	32	0	0%	0%	05-Det-23	03-Jar-24		134	
DC.53.3515 DC.53.3525	UPS with isolation Transformer	30	0	0%	0%	07-Dec-23	05-Jar-24	17-Apr-24 16-May-24 17-Apr-24 16-May-24	132	
DC.53.3525 DC.53.3535	PLC Parel	30	0	0%	0%	10-5eb-24	10-9ar-24	17-Apr-24 16-May-24	67	
DC.83.3535	Instrumentation	30	0	0%	0%	04-Dec-23	02-Jan-24		135 *	
	Il Works	~	1 4	18,03%	25-Nov-22	25-Nov-22 A	04-May-24		20-Jan-24 0	
DC.83.3020	Pre-boring Works for Sneet Pile Wall Installation	113	0	80.18%	51% 25-Nov-22	25-Nov-22 A			15-Mar-23 0	
DC.83.3040	Installation of Sheet File Wall	24	0	0%	0%	31-Mar-23	03-May-23		27-Mar-23 0 *	
DC.SS.3050a	Excevation to +2.5mPD	7	0	0%	03,	04-Vay-23	11-May-23	04-May-23 11-May-23	a ^	
DC.SS.3050a10		14	0	D%,	0%	06-9sy-23		D6-May-23 22-May-23	0 ^	
DC.SS.3050a20		7	0	DN-	0%	23-¥ay-23		23-May-23 31-May-23	0 *	
DC.83.3050a30	Installation of 2nd Wailing & Struts	14	0	D.N.	0%	01-Jun-23	18-Jur-23	01-Jun-23 16-Jun-23	g .	
DC.83.3050a40		18	g	0%	0%	17-Jun-23	07-Jul-23		g •	
DC.83.3050a50		14	g	0%	0%	08-Jui-23	24-Jul-23		g •	
DC.83.3050a60	Excavation to -5mPD (approx, 250m3 rock excavation)	18	0	0%	0%	25-Jul-23	11-Aug-23		0 .	
DC.S3.3050a70 DC.S3.3050a60		11	0	0% 0%	0%	12-Aug-23 25-Aug-23	24-Aug-23		0 *	
DC.SS.305080 DC.SS.3060	Excevation to -3 075mPD and Blinding Layer (approx: 950m3 rock excevation) Plate Load Test (Total 3 ros.)	10	0	0%	0%	25-Aug-23 13-Sep-23		25-ALg-23 12-Sep-23 13-Sep-23 17-Sep-23 30-Jun-23	0	
DC 53.3067	Construction of File Cap (Grid E to Grid H) (1200m3.6 pours)	30	0	0%	0%	28-Sep-23		28-Sep-23 04-Nov-23 12-Jul-23	27-Oct-23 0 *	
DC.53.3060a	Removal of 4h Waling and Studs	5.	0	0%	0%	06-\02-23	11-109-23		0 1	
DC.53.3063b	Construction of Pile Cap (Grid A to Grid E) and R.C. Wall to -3.5mPD (Grid E to Grid H) (820m3, 5 pours)	25	0	0%	0%	13-\\0r-23	11-Dec-23		g ·	┽╎╸┍╎┑╎╸╸╠╫╡╎╉╍╬╸┥╸┥╸┝╺ <mark>┥╶╎╺╎┼╴<mark>╔</mark>╣┥╸╢╠╶╎╸┢╺╸╸┍┤╸┥╺┝╺╸╸┝╸┥╸┥╸</mark>
DC.83.3983c	Removal of 3rd Wailing and Siruls	6	0	0%	0%	12-Det-23	18-Dec-23		0 .	
DC.S3.3080d	Construction of RC Wall (from -3.5mPD to +0.5mPD) (380m3, 2 pours)	15	0	0%	0%	19-Dec-23	11-Jan-24		g •	
DC.S3.3080e	Removal of 2nd Walling and Struts	6	0	0%	0%	12-Jan-24	18-Jar-24	12-Jan-24 18-Jan-24	0 ·	
DC.\$3.3080f	Construction of RC Wall (from +0.5mPD to +2.5mPD;	18	0	0%	03,	19-Jan-24	08-Feb-24	19-Jan-24 08-Feb-24	0 *	
DC.S3.3080g	Removal of 1st Wailing and Struta	6	0	0%	0%	09-Feb-24	19-Feb-24	09-Feb-24 19-Feb-24	0 *	
DC.S3.3083h	Construction of RC Ground Stati (from +2.5mPD to +4.8mPD)	23	0	DS-	0%	20-Feb-24	13-Har-24		0 .	
DC.S3.3060i	Construction of RC Wall and MCC Room Stab (from +4.8/nPD to +0.35mpD)	23	0	0%	0%	14-Mar-24	10-Apr-24	14-Mar-24 10-Apr-24	0 ·	
DC.S3.3100 E&MWorks	Construction of RC Wall and Roof Stab (from +9.35 to +13.55)	23	0	0%	0%	11-Ap24	04-May-24			
		48		0%	414	05-Way-24	02-Aug-24	08-May-24 02-Aug-24 22-Jan-24	19-Apr-24 0	
DC.S3.3120 DC.S3.3120a	E&H, Mechanicia Installation (Mixers, Inter Pumps, Gritnemoval system, DO systems and etc.) Electrical Installation (Cable, Instrument PLC Planel LIVSB, etc.)	45	2	0% 0%	0%	06-Way-24 05-Way-24	03-Jul-24 21-Jun-24		20-Mar-24 0	
DC.S3.31208 DC.S3.31208	Installation of BS Equipment	45	2	0%	0%	05-989-24 18-989-24	21-Jur-24 11-Jur-24		12 *	
DC.S3.31230 DC.S3.3123b10	Instalation of to equipment	25	0	0%	0%	18-989-24 18-989-24	11-Jur-24		22 *	
DC.53.312.012 DC.53.3130a	SCADA System Site Acceptance Test (Press 3 PTF Construction)	30	0	0%	0%	14-Vay-24	12-Jur-24		20-Fab-24 21	
DC.53.3133b	SCADA System Commissioning Test (Prese 3 PTF Construction)	30	0	0%	0%	13-Jun-24	12-Jul-24	D4-Jul-24 02-Aug-24 21-Feb-24	2'-Mar-24 21	╪╎╸┉╺┝╸┉╠╡╪╎╡╍╌╸┙╸┥ <mark>╴┝┝╸╅┑┥╪╎╴╠╸╹<mark>╴</mark>┇┇<mark>╞</mark>╓╸┡╺╸╸┝╵╴┥╸┾╸╸╸┝╴╸╸╸</mark>
DC.S3.3143b	System Commissioning Test	30	0	DS-	0%	04-Jui-24	02-Aug-24		19-Apr-24 0	
Internal Architec				0%		06-Vay-24	17-Jul-24	23-May-24 02-Aug-24 22-Jan-24	08-Apr-24 14	
DC.S3.3110	Architectural Works (Internal)	58	2	0%	0%	06-Way-24		23-May-24 02-Aug-24 22-Jan-24		
Temporary Flo	w Diversion			0%		14-Mar-24	06-Aug-24	08-Apr-24 06-Aug-24 02-Dec-23	23-Apr-24 0	
DC.S3.1550s	Installation of Temporary Sludge Thiokening System	92	8	0%	0%	19-Mar-24	22-Jul-24	08-Apr-24 06-Aug-24 05-Dec-23	10-Apr-24 13	
DC.S3.3150	Temporary WAS Pipe Construction from MBR to Sludge Digestor Building with temp pre-thickening system	23	2	0%	0%	14-Mar-24	12-Apr-24	08-May-24 03-Jun-24 02-Dec-23	29-Dec-23 42	
DC.S3.3160	Temporary severage pipe from existing manhole FMH7000149 to manhole FMH21 to isolate Intel Chamber	42	3	0%	0%	06-Vay-24	28-Jur-24	09-May-24 03-Jul-24 22-Jan-24	16-Mar-24 3	
		2	1	D%	0%	03-Aug-24	06-Aug-24	03-Aug-24 06-Aug-24 20-Apr-24	23-Apr-24 0	
DC.S3.3170	Temporary Row Diversion to isolate existing preliminary treatment system			DS-		07-Aug-24	07-May-25	07-Aug-24 07-May-25 24-Apr-24	19-Jan-25 0	
E&M Works - 3	30-month performance verification (At least 9 months before End of S3)						07.May.25	07-Aug-24 07-May-25 24-Apr-24	18-Jan-25 0	
E&M Works - 3 DC S3.8180	30-month performance verification (At least 9 months before End of S3) 33-month performance verification (At least 9 months before End of S3) (Period from (thise 9th month)	274	Ð	D%	0%	07-Aug-24				
E&M Works - 3 DC S13180 Construction	30-month performance verification (At least 9 months before End of S3) 32-month performance verification (At least 3 months before End of S3) (Period from (th to 5th month) of Underground Utilities			D%		06-Vey-24	22-Jur-24	16-May-24 03-Jul-24 22-Jan-24	11-Mar-24 8	
E&M Works - 3 DC S3.3180 Construction DC S3.3250	30-month parformance verification (Al least 9 months before End of 53) 53-month parformance verification (Al least 9 months before E vid 53) (Péois Fon Cho Bin month) of Underground Utilities Construction recence utilities extra facilities and Petimnary Teatment Facilities	274	0 2	D%	0% 0%	08-Way-24 06-Way-24	22-Jur-24 22-Jur-24	16-May-24         03-Jul-24         22-Jan-24           16-May-24         03-Jul-24         22-Jan-24	1'-Mar-24 8	
E&M Works - 3 DC S33180 Construction ( DC S33250 PHASE 4 - Der	30-month performance verification (Ar least 9 months before End of 53) 55-moh performane verification (Al least 9 moths before 1 of 32) (Period for 0 to 16 month) of Inderground Utilities Constance in acceptored allies to ABR Teatment Faillees and 9-finnary Teatment Fail Bes motificition of existing Performinary Terrationert System	35	2	DN- DN- DN-	0%	06-Vay-24 06-Vay-24 07-Jun-24	22-Jur-24 22-Jur-24 18-Oct-24	16-May-24         03-Jul-24         22-Jan-24           16-May-24         03-Jul-24         22-Jan-24           20-Jun-24         09-Nov-24         08-Fac-24	11-Mar-24 8 09-Jul-24 22	
E&M Works - 3 DC S33180 Construction DC S33250 PHASE 4 - Der DC S34010	30-month performance verification (At least 9 months before End of 53) 33-moth performance verification (At least 9 months before End of 53) 60 inderground (Billieie Constocion ancergonal dillies hOBB Treatment Facilies and Petinnary Treatment Facilies molition of existing Preliminary Treatment System Developing devisiting Preliminary Treatment System	38	2	DN- DN- DN- DN-	0%, 0%,	06-Way-24 06-Way-24 07-Jun-24 07-Aug-24	22-Jur-24 22-Jur-24 16-Oct-24 03-Sep-24	16-May-24         03-Jul-24         22-Jun-24           16-May-24         03-Jul-24         22-Jun-24           20-Jun-24         09-Nov-24         00-Feo-24           07-Aug-24         03-Seg-24         24-Apr-24	1°-Mar-24 8 09-Jul-24 22 15-Jun-24 0	
E&M Works - 3 DC S3.8180 Construction ( DC S3.8250 PHASE 4 - Der DC S3.4010	30-month performance verification (Ar least 9 months before End of 53) 55-moh performane verification (Al least 9 moths before 1 of 32) (Period for 0 to 16 month) of Inderground Utilities Constance in acceptored allies to ABR Teatment Faillees and 9-finnary Teatment Fail Bes motificition of existing Performinary Terrationert System	35	2	DN- DN- DN-	0%	06-Vay-24 06-Vay-24 07-Jun-24	22-Jur-24 22-Jur-24 16-Oct-24 03-Sep-24	16-May-24         03-Jul-24         22-Jan-24           16-May-24         03-Jul-24         22-Jan-24           20-Jun-24         09-Nov-24         08-Fac-24	11-Mar-24 8 09-Jul-24 22	
E&M Works - : DC \$13140 Construction DC \$13250 PHASE 4 - Der DC \$14010 DC \$14020	30-month performance verification (At least 9 months before End of 53) 33-moth performance verification (At least 9 months before End of 53) 60 inderground (Billieie Constocion ancergonal dillies hOBB Treatment Facilies and Petinnary Treatment Facilies molition of existing Preliminary Treatment System Developing devisiting Preliminary Treatment System	38 24 55	2 0 4	DN: DN: DN: DN: DN:	0% 0% 0%	06-Hay-24 06-Hay-24 07-Jun-24 07-Jun-24 07-Jun-24	22-Jur-24 22-Jur-24 18-Oct-24 03-Sep-24 18-Oct-24	18-May-24         03-Jul-24         23-Jul-24         23-Jul-24           18-May-24         03-Jul-24         23-Jul-24         23-Jul-24           23-Jul-24         03-May-24         03-May-24         03-May-24           23-May-24         03-May-24         26-Apr-24	1°-Mar-24 8 09-Jul-24 22 15-Jun-24 0	ISPOSAL FACILITIES Date Revision Chec Approve
E&M Works - C DC S13180 Construction I DC S13250 PHASE 4 - Der DC S14020 DC S14020 Pri	30-month performance verification (At least 10 months before End of 53) So-mak geterrates enfection (At least 10 months and e 54 of 52) (Period for 04 to 10 month) of Underground Utilities Constants and end of 54 months and e 54 of 52) (Period for 04 to 10 month) Denotion of existing Parliminary Transmert Facilies are 54 months and the formation of existing Parliminary Transmert Section 5 primely sedment task Redication of India Constants Denotion of existing Parliminary Transmert Facilies 5 primely sedment task Redication of India Chartee many Baseline	38 24 55	2 0 4	DN: DN: DN: DN: DN:	0% 0% 0%	08-Hzy-24 06-Hzy-24 07-Jun-24 07-Aug-24 07-Aug-24 07-Aug-24	22-Jur-24 22-Jur-24 15-OcI-24 03-Sep-24 16-OcI-24 SRADING	18-May-24 33-Jul-24 22-Jun-24 18-May-24 33-Jul-24 22-Jun-24 23-Jun-24 23-Jun-24 23-Jun-24 23-Jun-24 23-Jun-24 03-Re-24 23-Re-24 23-Re-24 23-Re-24 23-Re-24 23-Non-24 25-Re-24 OF CHEUNG CHAU SEWAR	1-44r-24 8 05-44-24 22 15-44-24 22 05-44-24 19 GE TREATMENT AND DIS	30-Nov-22 Rev. 20 JL CL
E&M Works - 1 DC S3 S180 Construction DC S3 S280 PHASE 4 - Der DC S3 4010 DC S3 4010 DC S3 4020 Pri AC	30-month porformance verification (At least 9 months before End of 53) 35-moth performance verification (At least 9 months before End of 53) 61 Underground Utilities Constructor accessory of sites to 459 months faulteen Parlies motition of existing Preliminary Treatment Faulteen Parlies motition of existing Preliminary Treatment System Demolend existing act party provide the site of the site of the site of the site toderation informations (State 10) Market and State 10) many Baseline tual Work	38 24 55	2 0 4	DN: DN: DN: DN: DN:	0% 0% 0%	08-Hzy-24 06-Hzy-24 07-Jun-24 07-Aug-24 07-Aug-24 07-Aug-24	22-Jun-24 22-Jun-24 18-Oct-24 03-Sep-24 18-Oct-24 BRADING RAMME	19.30/24         23.30/24         22.30/24           19.30/24         23.30/24         22.30/24           23.30/24         23.40/24         23.40/24           23.30/24         23.40/24         23.40/24           23.40/24         23.40/24         23.40/24           27.40/24         23.40/24         24.40/24           23.40/24         23.40/24         24.40/24           23.40/24         23.40/24         24.40/24           29.40/24         29.40/274         21.40/24           OF CHEUNG CHAU SEWA         REV. 22 (28 February	1-44r-24 8 05-44-24 22 15-44-24 22 05-44-24 19 GE TREATMENT AND DIS	
E&M Works -: DC 533/30 Construction 1 DC 533/200 PHASE 4 - Der DC 534/200 Pri AC	20-month performance verification (At least 8 months before Eucl of 53)     30-moth performance verification (At least 8 months before Eucl of 53)     50-moth performance verification (At least 8 months)     of Linderground Utilities     Constance a memory between the traities and % element facilities     constance a memory performance the traities and % element facilities     Denoted descrip der pranty stroke, premisely tealment facilities \$ primary sedment task     Modification of electric der pranty stroke, premisely tealment facilities \$ primary sedment task     Modification of leasting     many Baseline     Lual Work     emaining Work	38 24 55	2 0 4	DN: DN: DN: DN: DN:	0% 0% 0%	08-Hzy-24 06-Hzy-24 07-Jun-24 07-Aug-24 07-Aug-24 07-Aug-24	22-Jun-24 22-Jun-24 18-Oct-24 03-Sep-24 18-Oct-24 BRADING RAMME	18-May-24 33-Jul-24 22-Jun-24 18-May-24 33-Jul-24 22-Jun-24 23-Jun-24 23-Jun-24 23-Jun-24 23-Jun-24 23-Jun-24 03-Re-24 23-Re-24 23-Re-24 23-Re-24 23-Re-24 23-Non-24 25-Re-24 OF CHEUNG CHAU SEWAR	1-44r-24 8 05-44-24 22 15-44-24 22 05-44-24 19 GE TREATMENT AND DIS	30-Nov-22 Rev. 20 JL CL
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	And the Means		TOU IT		4.4.4.4	A constant for		E al Arri	Read and the state		the second second	Ende Arms (T	Frank Flatter	Test Internet			5050	_					_	-	- Inter
INRY ID	Activity Name	Ori, Dur (d)	TRA (d)	Time Elapsed N	Workdone %	Actual Start	Actual Finish	Early Start	Early Finish		Late Finish	Early Start (Rev 20)	(Rev. 20)	Float Activitie	Q1 02	03 04 0	02 03 0	4 Q1 02	2023	Q1 Q2	Q3 Q4 4	01 02 0	3 04 01	Q2 Q3	04 01
DC 83.4025	Notification to CLP for Demolition of Existing Transformer House	1	0	0%	0%			07-Jun-24	07-Jur-24		20-Jun-24	06-Feb-24	10-Feb-24	13											
DC 534030	Demolition of existing Transformer House Ground Incestigation (Z. tots. 1 rig. 1 term)	38	3	0% 0%	0%			07-Aug-24 07-Aug-24			09-Oct-24 03-Sen-24	24-Apr-24 18-May-24	14-Jun-24 15-Jun-24	11	_			1		T.					
DC 53.4031 DC 53.4040	Ground Investigation (7 nots, 1 ng, 1 teem) Disconnecting data link of removed existing equipment from the existing SCADA system (Phase 4 Demolition Existing PTS)	4	3	DN-	0%			20-Sep-24	00.000.00		03-580-24 09-Nov-24	03-Jul-24	15-Jul-24 09-Jul-24	44	- 11	2122		1		L.	al e		1		
	nstruction of Remaining Buildings		3	42.51%	0.4	12-Jul-21		12-Jul-21 A	13-May-25	11-Jun-22	13-May-25	12-Jul-21	02-0:1-25	0	•		in de de			l in the second second					
	of WAS Storage Tank of Sludge Centrifuge House			0%				02-Jan-24	30-Nov-24	24-Jan-24	23-Dec-24	30-Nov-23	07-Nov-24	19		1.1		A L			-		1		
Civil & Structura				DN-				02-Jan-24	30-Nov-24	24-Jan-24	23-Dec-24	30-Nov-23	07-Nov-24	19											
DC.53.3190	Piling works for pre-bored sockel H-piles (14 ros. dis.610 x 14m, 1 teams)	25	4	D%-	0%			02-Jan-24	05-Fet-24	24-Jan-24	01-Mar-24	30-Nov-23	06-Jan-24	19				11							
DC.53.3200	Installation of sheet piles and Proof Drill	30	2	0%	0%			05-Feb-24	16-Har-24	02-Mar-24	12-Apr-24	08-Jan-24	22-Feb-24	19		21.02		11		- 5					
DC.83.3201	Pile Loading Test of Tension Pile	6	1	0%	0%			15-Mar-24	25-Har-24	13-Apr-24	20-Apr-24	23-Fe0-24	0' -Mar-24	19						5			1		
DC.83.3210	Excevation and installation of ELS for WAS Storage Tank	60	2	0%	0%			28-Mar-24			06-Jul-24	02-Mar-24	20-May-24	19		1.1									
DC.83.3220 DC.83.3230	Construction of RC Structure (below ground)	70	1	0%	0%			14-Jun-24	05-Sep-24		28-Sep-24	21-May-24	13-Aug-24	19							<b>T</b> .				
DC.88.3280 DC.88.3240	Removal of formatorks, falseworks, application of exterprior/ing, backfilling and removal of ELS Construction of RC Structure (above ground)	12	2	0% D%	0%			08-Sep-24 24-Sep-24	23-Sep-24 30-Nov-24		17-Oct-24 23-Dec-24	14-Aug-24 30-Aug-24	29-Aug-24 07-Nov-24	19			1.1.1				1	1.1	1		
	of Effluent Reuse Building	02		42.72%	0.94	12-Jul-21		12-Jul-21.A			07-May-25	12-Jul-21	24-Feb-25	1		- Hard				an in a sea a					
	abrication and Delivery of Major E&M Equipment			50.68%		12-Jul-21		12-Jul-21 A	29-Sep-24		22-Nov-24	12-Jul-21	29-Aug-24	54		2.									
DC.53.5125a	Tendering of Subcontrator	45	0	100%	107%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-ALg-21 A			12-Jul-21	25-Aug-21		-										
DC.83.5125b	Equipment Submission and Approval	681	0	80.91%	40%	28-Aug-21		28-Aug-21 A	07-Jul-23	23-Apr-23	30-Aug-23	26-Aug-21	08-Jun-23	54					•						
DC.83.5130a	Proturement	90	0	0%	0%			08-Jul-23	05-Oc1-23		28-Nov-23	07-Jun-23	04-Sep-23	54			1.1.1.	-	· • •						
DC.83.5130b	Fabrication	240	0	0%	0%			06-0ct-23	01-Jur-24		25-Jul-24	05-Sep-23	01-May-24	54						1					
DC.S3.5130c CMI & Structure	Delitery	120	0	0%	0%			02-Jun-24 04-Sep-24	29-Sep-24 19-Dec-24		22-Nov-24 20-Dec-24	02-May-24 17-Jun-24	29-Aug-24 12-Oct-24	54				11 1							
DC.S3.5140a	Installation of obe cile vell of ELS (55 nos. dis323 x 8m, 1 team)	12	1	D%. D%	0%			04-Sep-24 04-Sep-24		05-Sep-24		17-Jun-24 17-Jun-24	12-001-24	1		21									
DC.53.51408 DC.53.51408	Proof Drill	7	2	DS-	0%			20-Sep-24			20-3e3-24 05-0ct-24	11-Jul-24	24-Jul-24	1	-1 : L		111						1		
DC.53.5150	Grout Curtain Works	11	1	DS-	0%		-	20-Sep-24	04-Oc1-24		05-0cl-24	11-Jul-24	24-Jul-24	1	+		to to to	+	1+ - +		3++++		÷		- + '
DC.83.5160	Installation of ELS and Excevation for besement(970m3 exce, 1/earr)	11	1	0%	0%			05-0cl-24	19-OcI-24		21-0cl-24	25-Jul-24	07-Aug-24	1		28-22							1		
DC.83.5170	Construction of RC structure (below ground, 437m3)	22	1	0%	0%			21-0ct-24			16-Nov-24	08-Aug-24	04-Sep-24	1							4		1		
DC.83.5180	Removal of formworks, faiseworks, application of waterproofing, backfilling and removal of ELS	5	1	0%	0%			16-Nor-24	22-Nov-24		23-Noy-24	05-Sep-24	11-Sep-24	1							₽ I				
DC.\$3.5190	Construction of RC Structure (above ground, 213m3)	22	1	0%	0%			23-\\o+-24		25-Nov-24		12-Sep-24	12-Oct-24	1							÷ .				
E&M Works				0%				22-Nor-24	06-May-25	23-Nov-24	07-May-25	12-Sep-24	24-Feb-25	1											
DC.S3.5210 DC.S3.5220a	E&MLVSB and BS Installation (LV system. Chemical tanks and dosing system and etc.) SCADA System Site Acceptance Test (Phase 5 Effluent Reuse Construction)	67	5	0%. 0%	03, 03,			22-\\o+-24 07-Jan-25			21-Feb-25	12-Sep-24	07-Dec-24 26-Dec-24	1				1				1			
DC.53.52238 DC.53.5223b	SURUA System site Addeptance rest (Hisse 5 Erillient Reuse Construction) SCADA System Commissioning Test (Phase 5 Erillient Reuse Construction)	62	0	0%	0%			07-Jan-25 08-Mar-25	07-Har-25 05-May-25		08-Mar-25 07-May-25	25-Oct-24 27-Dec-24	26-Dec-24 24-Feb-25	1	-	252						<b>_</b>			
DC.83.52230 DC.83.5233b	Solar Comissioning Test	30	0	0%	0%			05-Mail-20 07-Api-25			07-May-20	27-Dec-24	24-Feb-25	1	-										
Internal Architec				0%				20-Dec-24	10-4or-25		07-May-25	14-Oc1-24	0'-Feb-25	19		-	- i - i -								
DC.S3.5200	Architectural Works (Internal)	84	6	0%	0%			20-Dec-24	10-Apr-25		07-May-25	14-Oct-24	0'-Feb-25	19			1.1.1	1			- <b>-</b>	₩ :			
Construction of	of Sludge Centrifuge Building & Genset and Fuel Tank Rooms			42.51%		12-Jul-21		12-Jul-21 A	13-May-25	14-May-23	13-May-25	12-Jul-21	08-Apr-25	0		1001						<u>†</u>			
Procurement, Fa	and control of the point of the			50.25%		12-Jul-21		12-Jul-21 A	09-Oct-24	14-May-23	23-Dec-24	12-Jul-21	08-Sep-24	76											
DC.S3.5005a	Tendering of Subcontralor	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							
																		- in Anin		a a se a se a se a					
DC.S3.50056	Equipment Submission and Approval	681	0	79.74%	40%	26-Aug-21		26-Aug-21 A	17-Jul-23	14-May-23		26-Aug-21	16-Jun-23	78											
DC.S3.5010a	Procurement	45	0	0%	0%	26-Aug-21		18-Jui-23	17-Jul-23 31-Aug-23	01-0:1-23	14-Nov-23	26-Aug-21 17-Jun-23	18-Jun-23 31-Jul-23	75				1				****			
DC.53.5012a DC.53.5012b	Procurement Fabrication	45 225	0	0% 0%	0% 0%	26-Aug-21		18-Jul-23 01-Sep-23	17-Jul-23 31-Aug-23 12-Apr-24	01-0cl-23 15-Nov-23	14-Nov-23 26-Jun-24	26-Aug-21 17-Jun-23 01-Aug-23	16-Jun-23 31-Jul-23 12-Mar-24	75 75				-	•						
DC.S3.5010a	Procurement	45	0	0%	0%	26-4ug-21		18-Jui-23	17-Jul-23 31-Aug-23 12-Apr-24	01-0cl-23 15-Nov-23	14-Nov-23	26-Aug-21 17-Jun-23	18-Jun-23 31-Jul-23	75											
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DC.S3.5010a DC.S3.5010b DC.S3.5010c Civil & Structura	Posaranan: Fato alion Delanoy Works	45 225 190	0	0% 0% 0%	0% 0% 0%	26-Aug-21		18-Jul-23 01-Sop-23 13-Apt-24 28-Aug-24	17-Jul-23 31-Aug-23 12-Apr-24 09-Ocl-24 23-Dec-24	01-00-23 15-Nov-23 27-Jun-24 28-4cg-24 28-4cg-24	14-Nov-23 26-Jun-24 23-Dec-24 23-Dec-24	26-Aug-21 17-Jun-23 01-Aug-23 13-Mar-24 08-Jun-24	16-Jun-23 31-Jul-23 12-Mar-24 06-Sep-24 21-Nov-24	75 75											
DC.S3.5010a DC.S3.5010b DC.S3.5010b Chill & Structura DC.S3.5020a DC.S3.5020a DC.S3.5030 DC.S3.5040	Postanover Debrey Verwerk Misg workt for pre-bone socket H-pies (24 nov, disči t) v. 15m, riteren) Innolaten dr pies pie veti FEIS (30 nov. disči šv. 45m, i tearen) Innolaten dr pies pie veti FEIS (30 nov. disči šv. 45m, i tearen)	45 225 180 20 12 9	0 0 0 1 1 1	0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0%	28-Aug-21		15-Jul-23 01-Sop-23 13-Apt-24 28-Aut-24 28-Aut-24 28-Aut-24 10-Sep-24 26-Sep-24	17-Jul-23 31-Aug-23 12-Apr-24 09-Cc1-24 23-Dec-24 21-Sep-24 25-Sep-24 05-Oct-24	01-00-23 15-Nov-23 27-Jun-24 28-Aug-24 28-Aug-24 10-Sep-24 26-Sep-24	14-Nov-23 26-Jun-24 23-Dot-24 23-Dot-24 21-Sep-24 25-Sep-24 08-Oct-24	26-Aug-21 17-Jun-23 01-Aug-23 13-Mar-24 08-Jun-24 08-Jun-24 28-Jun-24 29-Jun-24	18-Jun-23 31-Jul-23 12-Mar-24 08-Sep-24 21-Nov-24 11-Jul-24 27-Jul-24 17-Jul-24 17-Jul-24	75 75 75 0 0 0 0 0 0								and a state of the			
DC.83.5010a DC.83.5010b DC.83.5010c Chill & Structura DC.83.5020a DC.83.5080 DC.83.5040 DC.83.5040	Peoutement Fabrication Definey Weake Pellay conduct for pre-base conduct H-prins (24 nov., did210 x 15m, "Barm) Installator of pice piles and of EL3 (30 nov., did230 x 8m, 1 tearret) Const Carrier Networ Execution for grunning gian k (132m) excs. Iteam(	45 225 180 20 12 9 11	0 0 1 1 1 1	0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0%	26-Aug-21		18-Jul-23 01-Sop-23 13-Apt-24 28-Aug-24 28-Aug-24 10-Sep-24 26-Sep-24 26-Sep-24 09-0ct-24	17-Jul-23 31-Aug-23 12-Apr-24 09-Oc1-24 23-Dec-24 21-Sep-24 25-Sep-24 05-Oc1-24 25-Sep-24 05-Oc1-24	01-001-23 15-Nov-23 27-Jun-24 28-Aug-24 28-Aug-24 10-Sep-24 26-Sep-24 29-Ost-24	14-Nov-23 26-Jun-24 23-Dec-24 23-Dec-24 21-Sep-24 25-Sep-24 25-Sep-24 23-Oct-24 23-Oct-24	26-Aug-21 17-Jun-23 01-Aug-23 13-Mar-24 08-Jun-24 08-Jun-24 29-Jun-24 29-Jun-24 10-Aug-24	16-Jun-23 31-Jul-23 12-Mar-24 08-Sep-24 21-Nov-24 11-Jul-24 27-Jul-24 17-Aug-24 31-Aug-24	75 75 75 0 0 0 0 0 0 0 0 0								and a state of the			
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ivity ID	Activity Name	Ori. Dur (d)	TRA (d) TI	ne Elapsed X	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	LiteFhish	Early Start (Rev 20)	Early Finish Total Amended	2021	2022	2023	2024	2025	2026 2027
DC.83.5240g	Procurement of FRP water tanks	150	a	0%	Workdone % 0%			30-Jun-23	26-Nov-23	07-Oct-23	04-Mar-24		Early Finish Total Amended (Rav. 20) Float Activities 26-Oct-23 99	Q1 02 03 Q4	01 02 03 04	01 02 03 04	Q1 Q2 Q3 Q4 Q1 Q	2 03 04 01	02 03 04 01
DC 53 52405	Exploration of FRP water taxies	200	0	0%	0%			27-50=23	13-Jun-24	05-Mar-24		27-Oct-23	13-May-24 89						
DC.\$8.5240i	Delivery of FRP water tanks	100	0	0%	03,			14-Jun-24	21-Sep-24	21-Sep-24		14-May-24	2'-Aup-24 89		1.1.1			1.1.1	
DC.S3.5240j	Procurement 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		111	-			
DC.53.5243k	Fabrication of pumps	200	0	DN-	0%			27-\\o+-23	13-Jur-24	05-Mar-24	20-Sep-24	27-Oci-23	13-May-24 99						
DC.53.52401	Delivery of pumps	100	0	D%	0%			14-Jun-24	21-Sep-24	21-Sep-24	29-Dec-24	14-May-24	2'-Aug-24 99						
Civil & Structural	Works			0%				04-Sep-24	18-Dec-24	28-Sep-24	14-Jan-25	17-Jun-24	05-Nov-24 20						
DC.83.5250	Installation of pipe pile wall of ELS (82 nos, dia323 x 12m, 1team) and Sheetpile (56 nos FSPIII sheetpile x8m)	20	1	0%	0%			04-Sep-24	27-Sep-24	28-Sep-24		17-Jun-24	28-341-24 20				•		
DC.83.5260	Grout Curtain Works	9	1	0%	0%			20-Sep-24	02-Oct-24	16-Oct-24	26-Oct-24	22-Jul-24	10-Aug-24 20						
DC.83.5270	Installation of FLS and excevation for basement (640m3 exce, 1team)	12	1	0%	0%			03-0ct-24	18-Oct-24	28-Oct-24	11-Nov-24	12-Aug-24	31-Aug-24 20 30-Sep-24 20						
DC.83.5260 DC.83.5290	Construction of RC structure (below ground, 512m3)	22	1	0% D%	036 036			19-0ct-24 15-Not-24	14-Nov-24 21-Nov-24	12-Nov-24 D9-Dec-24	07-Dec-24 14-Dec-24	02-Sep-24 02-Oct-24	30-Sep-24 20 08-Opt-24 20						
DC.53.5290 DC.53.5360	Removal of formeorks, faiteworks, application of celeproofing, backfilling and removal of ELS Construction of RC Structure (above ground, 326m3)	22	1	DN-	0%			22-Not-24	18-Dec-24	16-Dec-24	14-Jan-25	02-06-24 05-06-24	06-Nov-24 20						
E8M Works	Consector of the dedeate (above ground, azonis)	22		D%	0.9			21-Nor-24	09-Apr-25	30-Dec-24	07-May-25	05-061-24	12-Mar-25 28					1.1.1	
DC.83.5320	E&HLVSB and BS Installation (pumps and associated pipe works)	67	5	0%	0%			21-Nor-24	19-Feb-25	30-Dec-24		06-Cc1-24	04-Jan-25 31						
DC.83.5330	Site Acceptance Test	30	0	0%	0%			01-Feb-25	02-Har-25		07-Apr-25	14-Dec/24	12-Jan-25 36			1 111			
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						
Internal Architect	aral Works			0%				19-Dec-24	09-Apr-25	15-Jan-25	07-May-25	07-Nov-24	28-Feb-25 20						
DC.S3.5310	Architectural Works (Internal)	84	6	D%	03,			19-Dec-24	09-Apr-25	15-Jan-25	07-May-25	07-Nov-24	26-Feb-25 20					1.1.1	
	Dangerous Goods House			DN-				26-Sep-24	26-Apr-25	10-Oct-24	13-b/ay-25	17-Jun-24	28-Mar-25 17						
DC.S3.5350	Installation of ELS and excavation for basement(48nos FSPIII x 9m, 70m3 exce, fiteem)	11	1	DN-	0%			25-Sep-24	10-Oct-24	10-Oct-24	24-Oct-24	17-Jun-24	29-Jun-24 11						
DC.S3.5360	Construction of RC structure (below ground, 34m2)	15	1	DN-	0%			12-0tt-24	02-Nov-24	25-Oct-24	15-Nov-24	02-Jul-24	05-Aug-24 11						
DC.S3.5370	Backfilling to ground level and removal of ELS	6	1	0%	0%			04-Nor-24	13-Nov-24	16-Nov-24	26-Nov-24	06-Aug-24	18-Aug-24 11						
DC.S3.5380	Construction of RC Structure (above ground, 21m2)	15	1	0%	0%			14-Nor-24	05-Dec-24	27-Nov-24		20-Aug-24	24-Sep-24 11					+	
DC.83.5380	Architectural Works (internal)	21	1	0%	0%			06-Dec-24	03-Jan-25	19-Dec-24		25-Sep 24	31-Oct-24 11 03-Eeb-25 11						
DC.S3.5400a	E&H installation and testing	45	2	0%	0%			04-Jan-25	03-Har-25	17-Jan-25	15-Mar-25	01-Nov-24	60100 20 11						
DC.S3.5400b	DG respection by FSD	28	a	0%	03,			30-Mar-25 28-Feb-24	28-Apr-25	16-Apr-25	13-May-25	20-Mar-25 31-Oct-23	28-Mar-25 17 18-Mar-25 1						
Roadworks & U DC S35410	Inderground Utilities (Permanent pipeworks, Sewerage System, Road Drainage System) Min access biteren MBR & FTF	73	2	0%	0%			29-Feb-24 29-Feb-24	12-May-25 29-May-24	08-May-24 08-May-24	13-May-25 02-Aug-24	31-DcH23	25-Mar-24 54						
DC.53.5420	Main scores between Miller & PTP Main scores between PTF. Effluent Reuse Building, FS Pumproom and Pumproom	55	- 2	0%	0%			15-00-24	23-Dec-24	09-Nov-24		3 -OCH23 10-Sep-24	25-Mar-24 54 21-Nov-24 22			-\			
DC.S3.5430	Main scccss between Administration Building & Inici Chamber	55	2	0%	0%			04-Sep-24	15-309-24	22-Feb-25	07-May-25		28-Aug-24 138						
DC 83 5440	Main socess between Sturge Centr fuge Building & Sturge Digitslor Building	55	2	0%	0%			04-Sep-24	15-Nov-24	22-Feb-25	07-May-25		28-Aup-24 138						
DC.S3.5450	Permanent flow Diversion	4	1	0%	0%			07-Way-25	12-May-25	08-May-25		14-Mar-25	19-Mar-25 1						
DC.S3.5470	Construction of EVA and Signage	58	2	0%	0%			04-Feb-25	04-Apr-25	01-Mar-25	29-Apr-25	29-Dec-24	26-Feb-25 25						
Sludge Dewate	Ing 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		<del></del>			11111	
DC.S3.5460	A&A works of Studge Devisiering 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						
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		-				
DC.S3.5470a	Procurement	1	0	100%	100%	28-Dao-22	28-Dec-22	28-Dec-22 A	28-Dec-22 A			31-Jul-22	31-Jan-23			╬┡╾┥║║			
DC.S3.5470b	Fabrication	380	0	7.78%	0%	31-Jan-23		31-Jan-23 A	25-Jar-24	08-Jun-23	,	01-Feb-23	31-Dec-24 100						
DC.S3.5470c1	Deirery	59	Ø	0%	0%			28-Jan-24	24-Har-24	05-May-24	02-Jul-24	01-Jan-25	01-Mar-25 100				▶		
DC.S3.5470c2	Installation of E&M, MCC & BS Equipment	270	0	0%	0%			25-Mar-24	19-Dec-24	03-Jul-24	29-Mar-25	19-Oct-23	18-Aug-25 100					T ! !	
DC.S3.5480s1	Testing and commissioning	30	0	0%	0%			20-Dec-24	18-Jar-25	30-Mar-25	28-Apr-25	19-Aug-25	17-Sep-25 100					-	
DC.S3.5480s2	Decommissioning of Existing E&M Equipment and MCC	1	0	0%	0%			19-Jan-25	25-Jar-25	28-Apr-25	05-May-25		24-Sep-25 100					1	
DC.S3.5480s3	Installation of WCC for FS pumping station and Cabling Works	8	a	0%	03,	33,9an,27		26-Jan-25 30-Sep-22 &	02-Feb-25	06-May-25	13-May-25	25-Sep-25 30-Sep-22	02-Oct-25 100 04-Oct-25 92						
DC.S3.5430	A&A works of Administration Build no	224	16	D%	05	ph-deh-cs		28-0ci-23	19-Aug-24	31-Jan-24	21-Nov-24	27-Jun-23	17-Apr-24 78						
DC.S3.5530a	Procurement of EL Equipment	213	0	70.89%	30%	30-Sep-22		30-Sep-22 A	30-Apr-23	03-Jun-23	03-Aug-23		28-Dec-22 95						
DC.S3.5530b	Fabrication of EL Equipment	150	0	0%	0%	on-non-ce		01-Hay-23	27-OcI-23	04-Asg-23	30-Jan-24	29-Dec-22	28-Jun-23 95						
DC.83.5500c	Delivery of EL Equipment	120	0	0%	0%			28-Oct-23	24-Feb-24	31-Jan-24		27-Jun-23	24-0ct-23 85			4.4			
DC.83.5500c	Procurement of Santary Fitments	30	0	0%	0%			20-Aug-24	18-Sep-24	22-Nov-24	21-Dec-24	18-Apr-24	17-Msy-24 84						
DC.S3.5500e	Fabrication of Sen tary Filments	50	0	0%	0%			19-Sep-24	07-Nov-24	22-Dec-24	09-Feb-25	18-May-24	06-Jul-24 84	11 1 1 11					
DC.S3.5500f	Delivery of Sanitary Firments	10	0	0%	0%			08-\\or-24	17-Nov-24	10-Feb-25	19-Feb-25	07-Jul-24	16-Jul-24 84	1					
DC.S3.5530g1	BS Installation	28	2	DS-	0%			18-\\o+-24	21-Dec-24	20-Feb-25	26-blar-25	17-Jul-24	20-Aug-24 75	11 1 1 1 1	<b> </b>		+-   <b> </b>		
DC.S3.5500g2	Bedroal Installation	28	2	DS-	0%			18-\\or-24	21-Dec-24	20-Feb-25	26-b/ar-25	17-Jul-24	20-Aug-24 75						
DC.S3.5530g3	Control and SCADA Installation	25	2	D%-	0%			18-\\o+-24	21-Dec-24	20-Feb-25	26-Mar-25	17-Jul-24	20-Aug-24 75					1.1	
DC.S3.5530h	Completion of all the works in the new control room	0	0	0%	0%				21-Dec-24		26-b/ar-25		20-Aug-24 95		1 I I I I				
DC.S3.5510a	Relocation of existing SCADA equipment from existing control room to new control room	7	0	0%	0%			23-Dec-24*	02-Jan-25	27-Mar-25		21-Aag-24	28-Aug-24 75					111	
DC.83.5510b	Vacating the existing control room and A&A Works	30	0	0%	0%			03-Jan-25	10-Feb-25	04-Apr-25	13-May-25	29-Aag-24	04-Oct-24 75						
A&A of existing	outfall pumping station and header tank	44		0%	-			04-Sep-24	01-May-25	17-Sep-24	13-May-25	17-Jun-24	27-Feb-25 12			V			
DC.S3.5520	A&A works of existing outfall pumping slation and header tank	60	2	0% 08	0%			04-Sep-24	18-Nov-24	17-Sep-24	30-Nov-24	17-Jun-24	16-Sep-21 11	-[]		1			
DC.S3.5530s DC.S3.5530b	Procurement Fabrication	23	0	0%. 0%	0% 0%			19-Nor-24 09-Dec-24	08-Dec-24 10-Feb-25	01-Dec-24 21-Dec-24	20-Dec-24 22-Feb-25	17-Sep-24 07-Oct-24	08-Oct-24 12 09-Dec-24 12	-11 - 11					
DC.S3.55305 DC.S3.5530c	Fabrication Delivery and Installation	23	0	DS- DS-	0%			09-Dec-24 11-Fab-25	10-Feb-25 02-Har-25	21-Dec-24 23-Feb-25	22-Feb-25 14-b/ar-25	07-Det-24 10-Dec-24	054Dec-24 12 254Dec-24 12	-					
DC.83.5540	Testing and commissioning	60	0	0%	0%			03-Mar-25	02-Har-25 01-May-25	23-Heb-25 15-Mar-25	13-May-25		27-Feb-25 12						
Modification of	Emergency overflow chamber		· ·	0%				24-/up-24	20-801-25	16.Sec.24	13-blay-25	15-May 24	10 Mar 25 23			/			
DC.83.5550a	Procurement of E&M Equipment	30	0	0%	0%			24-/102-24	22-Sep-24	16-Sep-24	15-0ct-24	15-May-24	13-Jun-24 23						
DC.S3.5550b	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				┃ ║┥ <u>┥</u> ┿╋╋╣║┊║		
DC.S3.5550c	Delivery and Installation of E&b1 Equipment	32	0	0%	03,			21-Jan-25	19-Feb-25	13-Feb-25	14-b/ar-25	11-Dec-24	09-Jan-25 23	11 1 11			<b>                     </b>		
DC.S3.5650d	Testing and Commissioning	30	0	0%	0%			22-Mar-25	20-Apr-25	14-Apr-25	13-May-25	09-Feb-25	10-Mar-25 23	-11 - 1 - 1 - 1 - 1 - 1					
E&M Submissi	on and inspection for permanent water supply, power supply and fire services works			38.65%		14-Oct-21		14-0:521 A	28-Apr-25	28-Feb-23	13-May-25	14-Oci-21	29-Mar-25 17	1					
		1												u		Date	Revision	Chec	Approved
Prir	nary Baseline	DC/201	9/07 OUT	'LYING I	SLANDS	SEWER/	AGE STAGI	E2 - UPG	RADING	OF CHE	JNG CHA	AU SEWA	GE TREATMENT AND [	DISPOSAL FAC	ILITIES				
Ac	ual Work					, F	REVISED	PROGR	AMME -	REV.	2 (28 F	ebruary	2023)			30-Nov-22	Rev. 20	JL CI	
	maining Work											condury .	/			31-Dec-22	Rev. 21	JL C	
	-								(rage	11 of 13	7					28-Feb-23	Rev. 22	JL CI	L
	ical Remaining Work																		
A Base	eline Milestone																		
		1														1			



DC.83.5560 DC.83.5570 DC.83.5580			Hot (a)	me Elapsid %	Warkdone %	Actual Start	Actual Hnish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. 20)	(Rev. 20)	Flaat Activities Q1 Q2	03 04 01 02 01 0	2023	04 01 02 03	04 01 00	03 04 0	2026
DC.83.5580	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			07-Jan-22	28-Sep-22					<b>THIT</b>		
	Preparation and approval of WWO 542 submission (Plumbing system)	279	0	100%	100%	14-Oct-21	20-Jul-22	14-Oct-21 A	20-Jul-22 A			14-Oct-21	20-Jul-22							
	Preparation and approval of WWO 48 submission (FS system)	244	0	62.3%	30%	29-Sep-22		29-Sep-22 A			27-Aug-23	29-Sec-22	26-Jan-23	89		<b></b>				
DC.S3.6590	Preparation and approval of WWO 48 automission (Plumbing system)	273	0	05.3%	30%	31-Aug-22		31-Aug-22 A			27-Aug-23	31-Aug-22	28-Dec-22	89						i i i i
DC.S3.5800	WSD Inspection (FS system)	10	0	0%	0%			28-Jan-25*	06-Føb-25		28-Feb-25	28-Jan-25	08-Feb-25	22						
DC.S3.5810	WSD Inspection (Plumbing system)	10	0	0%	0%			20-Feb-25		06-Apr-25	15-Apr-25	07-Feb-25	16-Fab-25	45						
DC.83.5830	Properation and approval of GBP submission for CCSTW	449	0	99.55%	90%	06-Dec-21		06-Dec-21 A	01-Mar-23	28-Feb-23	01-Mar-23	05-Dao-21	28-Cc1-22	0	· · · · · /					
DC.83.5840	Preparation and approval of DG submission (Upon GBP submission)	183	0	15.3%	0%	31-Jan-23		31-Jan-23 A			27-Aug-23	29-Oct-22	25-Feb-23	28						
DC.83.5850	Preparation and approval of FSI314 for VAC (Upon GBP submission)	183	0	15.3%	0%	31-Jan-23		31-Jan-23 A	01-Aug-23		27-Aug-23	29-0:t-22	25-Feb-23	28						. La La la se
DC-83.5880	Submission of Form 314, 501 and 501a for CCSTW	90	0	055	0%			08-Jan-25*	07-Apr-25	30-Jan-25	29-Apr-25	08-Feb-25	09-\\8+25	22						
DC-53.5892	FSD Inspection of CCSTW (Final Inspection)	14	0	055	0%			08-Ap25		30-Agr-25	13-May-25	10-Mar-25	23-Mar-25	22						
DC.S3.5700	DG inspection by FSD	10	0	0%	0%			17-Apr-25		04-May-25		20-Mar-25	29-Mar-25	17						
SCADA System		349	D	36.39%	100%	15-Dec-21		15-Dec-21 A		22-Mar-23	13-May-25	15-Dec-21	19-Feb-25	3/		- 11 818				
DC.83.5705 DC 83.5710	SCADA Equipment Submission and Approval Procurement	349	0	100%	100%	15-Dec-21	28-Nov-22 28-Nov-22	15-Dec-21 A	28-Nov-22 A 28-Nov-22 A			15-Dec-21	28-Nov-22 28-Nov-22			2	h			
DC.83.5710 DC.83.5720	Fabrication	416	D	39.9%	39%	31-Aug-22 15-Sep-22	28-909-22	31-Aug-22 A 15-Sep-22 A		22-War-23	0E Nov. 09	31-Aug-22 15-Sec-22	28-Nov-22 18-Jan-23	22						
DC.83.5720 DC.83.5730	Papercanon Delvery	416	0	0%	39%	15-8ep-22		05-Vor-23	04-109-23 04-Dec-23	15-Jun-24	26-1407-23	15-56p-22 19-Jan-23	18-Jan-23 17-Feb-23	223						
DC.83.5730 DC.83.5770	Preparation and cable Installation works by communication company	540	0	64.05%	60%	04.Jun-22		05- V01-23 04-Jun-22 A	28-04-06023	20-Jun-23	14-30-24 17-Nov-23	19 Jan 23 04 Jun 22	17-rep-23 03-Feb-23	1'2				d III III -		
DC.83.57755'	SCADA equipment installation (Phase 1 Sludge Digestor Building Construction)	30	0	0%	055	04-301-22		10-6ug-23	08-Sep-23	19-Sep-23	18-Oct-23	28-Jul-23	24-Aug-23	45						
DC.83.577552	SCADA eculpriant installation (Phase 3 PTF Construction)	30	0	0%	0%			26-Mar-24			02-Jun-24	14-Dec-23	12-Jan-24	39		<u>/</u>	<b></b>	A		
DC 83 677652	SCADA eculoment installation (Phase 1 MBR Construction)	30	0	0%	0%			15-Mar-24	17-Apr-24	15-Mar-24	13-Apr-24	31-Oct-23	29-Nov-23	0	/	/				
DC.53.577554	SCADA ecubment installation (Phase 5 Effluent Reuse Construction)	30	0	0%	0%			08-Dec-24			08-Mar-25	29-Sec-24	28-Cc1-24	6				4 8 8		1.1.1
DC.83.577505	SCADA equipment installation (Phase 5 Studge Centrifuge Construction)	30	n	0%	0%			24-Dec-24	22-Jan-25	04-Jan-25	02-Feb-25	22-Nov-24	21-Dec-24	11		X				
DC.83.577568	SCADA eculpriont installation (Phase 5 Studge Deviational System)	30	0	0%	0%			21-Sep-24	20-0c1-24		02-Feb-25	13-0:1-24	21-060-24 11-Nov-24	105				<b>4</b>		
DC.83.577567	SCADA ecubment installation (Section 2 at PSSPS)	30	0	0%	0%			15-Mar-24			27-/01-25	18-Feb-23	19-Mar-23	379	the second second					
DC.83.5775cr	SCADA System Site Acceptance Test (Phase 1 Sludge Digestor Building Construction)	30	0	055	05			09-Sep-23	08-Cc1-23	19-Oct-23	17-Nov-23	25-Aug-23	23-Sep-23	40						
DC.53.577562	Disconnecting data link of removes existing eculoment from the existing SCADA system (Phase 2 Ste Clearance at PTF Area)	7	0	100%	100%	31-Jan-23	08-Feb-23	S1-Jan-2S A	06-Feb-23 A			19-Jan-23	25-Jan-23			+J []				
DC.53.5775c2	SCADA System Site Acceptance Test (Phase 3 PTF Construction)	30	0	0%	0%			14-Vey-24		04-Jun-24	03-Jul-24	22-Jan-24	20-Feb-24	2'						
DC.53.5775o4	SCADA System Sile Acceptance Test (Phase 1 MBR Construction)	30	0	0%	0%			14-Apr-24	13-Hay-24	14-Agr-24	13-May-24	30-Nov-23	29-Dec-23	0			-1			
DC.S3.5775c5	Disconnecting data link of removed existing equipment from the existing SCADA systm (Phase 4 Demolition of existing PTF)	7	0	0%	0%			20-Sep-24			09-Nov-24	03-Jul-24	09-Jul-24	44		<b>\</b>	العربية ا	# <b>1</b> 0111-	111-	
DC.S3.5775c8	SCADA System Sile Acceptance Test (Phase 5 Elluent Reuse Construction)	30	0	0%	0%			07-Jan-25			07-Apr-25	29-Oct-24	27-Nov-24	6'				( <b>4.</b>   <b>1</b>   .		
DC.83.5775c7	SCADA System Sile Acceptance Test (Phase 5 Studge Centrifuge Construction)	30	0	0%	0%			23-Jan-25	21-Feb-25	03-Feb-25	04-Mar-25	22-Dec-24	20-Jan-25	11		N E E E				
DC.83.5775c8	SCADA System Site Acceptance Test (Phase 5 Sludge Dewatering System)	30	0	0%	0%			21-0ct-24	19-Nov-24	03-Feb-25	04-Mar-25	12-Nov-24	11-Dec-24	105				44		
DC.83.5775c8	SCADA System Site Acceptance Test (Section 2 at PSSPS)	30	0	055	0%			31-Mar-24	28-Apr-24	14-Agr-25	13-May-25	06-Mar-23	04-Apr-23	379			<b>#</b> : :	d          -		
DC.83.5775d1	SCADA System Commissioning Test (Phase 1 Studge Digestor Building Construction)	30	0	0%	0%			09-Oct-23	07-Nov-23	18-Nov-23	17-Dec-23	24-Sec-23	23-Cc1-23	40		ينيا 🚽	44 11 11			1111
DC.53.5775d2	SCADA System Commissioning Test (Phase 3 PTF Construction)	30	0	0%	0%			13-Jun-24	12-Jul-24	04-Jul-24	02-ikug-24	2'-Feb-24	21-Mer-24	2'			···			
DC.83.5775d3	SC4DA System Commissioning Test (Phase 1 HBR Construction)	30	0	0%	0%			14-9sy-24	12-Jun-24	14-May-24	12-Jun-24	30-Dec-23	28-Jan-24	0	· · · · · · · · · · · · · · · · · · ·		446 <b>•</b>			
DC.S3.5775d4	SCADA System Commissioning Test (Phase 5 Effuent Reuse Construction)	30	0	0%	0%			08-Mar-25			07-May-25	27-Dec-24	25-Jan-25	3'		N		144		
DC.S3.5775d5	SCADA System Commissioning Test (Phase 5 Studge Centriluge Construction)	30	0	0%	0%			22-Feb-25	23-Mar-25		03-Apr-25	21-Jan-25	19-Feb-25	11		N				
DC.SJ.5775d8	SCADA System Commissioning Test (Phase 5 Studge Deviatoring System)	30	0	0%	0%			20-\\or-24			03-Apr-25	12-Dec-24	10-Jan-25	105		<u>_</u>				
DC.83.5775d7	SCADA System Commissioning Test (Section 2 at PSSPS)	30	0	0%	0%			31-Mar-24	23-Apr-24		13-May-25	06-Mar-23	04-Apr-23	379		<b>*</b>		4		
DC.53.5780	SCADA eculpment installation at SHWSTW	30	0	055	0%			21-Sep-24	20-Cc1-24	04-Jan-25	02-Feb-25	13-0ct-24	11-Nov-24	105		77		<b>"</b>		
	CTV, ACS, Intercom, Radio)			0%				07-Aug-24	04-ldsr-25	06-Sep-24	03-Apr-25	25-May-24	20-Dec-24	30						
DC.53.5735	Equipment Submission and Approval	30	0	0%	0%			07-Aug-24*			05-Oct-24	25-May-24	23-Jun-24	80						-+
DC.S3.5740	Procuranant	30	0	0%	0%			05-Sep-24		06-Oct-24	03-Jan-25	24-Jun-24	21-Sep-24	30						
DC.S3.5750 DC.S3.5760	Fabrication	15	0	0%	0%			05-Dec-24		04-Jan-25	18-Jan-25	22-Sep-24	08-Cc124	30			Ī			
00/04/0-00	Dalvary	15	0	0%	0%			20-Dec-24	03-Jan-25		02-Feb-25	07-Oct-24	21-0:124	30			1			
DC.S1.5790 O & M Manual 8	E6M Installation Works 8. Training	20	0	0%	0%			04-Jan-25 01-Nor-24	04-Mar-25 M. Mov 26	03-Feb-25	03-Apr-25	22-0:1-24	20-Dec-24	30						
DC.83.5765a	& Training Submission of draft C&M Manual	60	0	055	055			01-Nor-24 01-Nor-24*	04-99y-25 30-Dec-24	08-Jan-25 08-Jan-25	12-May-25 08-Mar-25	0" -Aug-24 0" -Aug-24	12-Dec-24 29-Sep-24	68				_ <b>     </b>		
DC.53.57658 DC.53.57655	Suomesion or dram Geen's Staffs	14	0	0%	0%			01-N04-24 21-Apr-25	30-Dec-24 04-May-25		08-M8-25 12-May-25	0° -A0g-24 30-Sec-24	29-Sep-24 13-Oc1-24	8		1	I	â∏ la		
DC.53.57650 DC.53.57650	Submission of interim OBM Manual	60	0	0%	055			21-9(p-23 31-Dec-24		09-War-25		14-Oct-24	12-Dec-24	68	Sector 1			411		
	IS DUE TO CEs	00		87.04%	978	18-Jan-22		18-Jan-22 A	26-Fe0-25 25-Apr-23	08.Wps/22	20-May-23	18-Jan-22	19.4ns.23	17		<b>→</b>				
DC.S3.6010	CE-015, Abandonement Works for Existing 900mm Diameter Pipe Connection fo Manhole SHM7003180 and CCH7000000	8	1	100%	100%	13-May-22	20-May-22	13-May-22 A	20-Vey-22 A		active years	13-May-22	20-May-22			N				
DC.53.6010 DC.53.6020	CE-015, Management works for Existing Mumm Litameter Pipe Connection to Mannale SHMP003183, and CCH7000000 CE-024, Pilot Trial Leak Detection for Existing Manhales in Cheung Chau	162	4	100%	100%	13-May-22 17-Mar-22	20-May-22 08-Oct-22	13-Map-22 A	20-089-22 A 08-0ct-22 A			13-MBy-22 17-Mar-22	20-May-22 08-Cc1-22					4111		
DC.53.8030	CE-033, Repair Works of Existing Studys Ramp	316	2	90.57%	90%	18-Jan-22		18-Jan-22 A		08-Mar-23	15-Apr-23	18-Jan-22	16-Jan-23	7						
DC.S3.8040	CE-033, Kepain Works of Externing Studie Kamp CE-044, Point Cloud Survey at Chaung Chau	72		100%	100%	15-Mar-22	17-Jun-22	15-Mar-22 A	17-Jun-22 A	sorver-23	10/10/20	18-Jan-22 15-Mar-22	10-Jun-22	,		N				
DC.53.6040 DC.53.8150	CE-804, Point Cloud Servey at Unsung Onsu CE-850, Uncerground Utilities Servey and Water Intrusion Identification in Chaung Chau	153	2	100%	100%	15-May-22	17-Sun-22	16-May-22 A	17-Jun-22 A			16-May-22	17-Jun-22 17-Nov-22		-					
DC.S3.6050 DC.S3.6060	CE-265, Additional Drilholes for Pretiminary Treatment Facilities in CCSTW (Batch 1) (Total 7 nos.)	25	2	100%	100%	31-Jui-22	30-Aug-22	31-Jul-22 A	30-Auto-22 A			01-Aug-22	3'-Oc122							
DC.S3.6060 DC.S3.6090	CE-065, Additional Drillholes for Preliminary Treatment Facilities in CCSTW (Batch 1) [ Joan 7 Hos.]	30	0	100%	100%	26-Jui-22	30-Aug-22 30-Aug-22	26-Jul-22 A	30-Aug-22 A			30-Sep-22	12-Dec-22		<b>-</b>					
DC.53.6090	CE-056, Inspection Pt: Works for Water Instruction Indentification in Clean Clau (Batch 1)	30	0	100%	100%	20-30-22 20-May-22	30-Mig-22 36-Aug-22	20-30-22 A	06-Aug-22 A			30-Sec-22	12-De0-22							
DC.S3.6110	CE-0st, repection Pt Works for Water Instrusion Indentification in Cheura Chau (Batch 2)	171	0	71.355	33%	20-May-22 30-Sep-22	"Danidare	20 May 22 A 30-Sep-22 A		20-Mar-23	20-May-23	30-Sec-22	30-Mar-23	17						
DC.S3.6120	CE-091, hispection Pr. Works for Water Instrusion Indentification in Cheurg, Callor (addit 2) CE-091, inspection Pr. Works for Water Instrusion Indentification in Cheurg Chau (Batch 3)	109	0	65.06%	0%	15-Dec-22		15-Dec-22 A			20-May-23 20-May-23	15-Dec-22	19-Apr-23	17		<b>4</b>				
COMPLETION	OF SECTION 3			0%				13-Ap-25	13-Hay-26	13-Apr-25	13-May-25	20-Deo-24	08-Apr-25					- I I 🖛		
DC.S3.6070	Pre-handover meeting with DSD/ST2	1	0	055	055			13-Ap-25	13-Apr-25	13-Aar-25	13-Apr-25	20-Deo-24	20-Dec-24	0		/		di di se		
DC.53.6080	Handover meeting with DSD/ST2	1	0	0%	0%			13-Vev-25			13-May-25	19-Jan-25	19-Jan-25	0		ι I I I I		1. 🔒 🕞		
DC.53.6500	Compision of Section 3 (Working Bays)	3	0	0%	0%			70° 019°20	13-Hay-25	- 5-049-200	13-May-25		08-Apr-25	0				1.		
SECTION 4		1	Ť	0%	9.4	_		08-Mey-25	05-Feb-28	18-May-25	05-Feb-26	19-Jan-25	15-0:125					1    Î`+	┿┿┿	•
ALC: NOT OF	ormance Verification (At least 18 months End of S4)			0%				08-Vey-25		08-Way-25	05-Feb-26	19-Jan-25	15-Cc1-25	0		/		-    -	++++•	•
30-month Perfe		DC/201	9/07 OUT	ELYING I	SLAND	S SEWER	AGE STA	GE2 - UPG	RADING C	E CHEU	NG CHA	U SEWAG	E TREAT	MENT AND DISPOS	AL FACILITIES	Date		evision	Chec	
	mary Baseline																			
Prin		00,201					DEVICE									30-Nov-22	2 Rev. 20	2	JL	CL
Prin Actu	wal Work	DOLUT				I	REVISED	PROGR	AMME -	REV. 2	2 (28 Fe									
Prin Actu		001201					REVISED		AMME -		2 (28 Fe					31-Dec-22	2 Rev. 21	1	JL	CL
Prin Actu Rer	wal Work	50.201				I	REVISED		AMME -	REV. 2	2 (28 Fe						2 Rev. 21	1	JL	



vity ID	Activity Name	Orl. Dur (d)	TRA (d) Time I	Bapeed N	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev.	Early Finish	Total	Amended	2021	2022		2023	2024	2025		2026
					Workdone %							20)	(Rav. 20)	Float	Activities	Q1 02 03 04	01 02 03	04 01	02 03 04	Q1 Q2 Q3	04 01 02 0	13 Q4 Q1	02 03 0
DC 84.1040	33-month performance verification (At least 18 months before End of S4) (Period from 9th to 18th month)	274		0%	0%			08-¥sy-25	05-Feb-26	08-May-25		19-Jan-25	15-Oct-25	0							-	<b>1</b>	
External Arch				0%				14-Vay-25	04-Sep-25	08-Aug-25	01-Dec-25	08-Apr-25	05-Aug-25	88									
DC \$4.1010	External Architectural at MBR Treatment Facilities	90	6	0%	0%			14-Yay-25	04-Sep-25	08-ALg-25	01-Dec-25	06-Apr-25	05-Aug-25	72			1111	- 11			-		
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	
DC 54.1110	External Architectural at Sludge Centrifuge House	60	4	0%	0%			14-9ay-25	29-Jul-25	15-Sep-25	01-Dec-25	08-Apr-25	27-Jun-25	104							-		
DC 54.1120	External Architectural at Preliminary Treatment Facilities	90	6	0%	0%			14-9ay-25	04-Sep-25	08-Aug-25	01-Dec-25	08-Apr-25	05-Aug-25	72							•		
DC 54.1130	External Architectural at Effluent Reuse Building	30	2	DN-	0%			14-9ay-25	20-Jur-25	24-Oct-25	01-Dec-25	0G-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							- <u>-</u>		
DC S4.1150	External Architectural at Dangerous Good House	30	2	DN-	0%			14-9ay-25	20-Jur-25	24-Oct-25	01-Dec-25	06-Apr-25	20-May-25	136									
DC S4.1160	External Architectural at Studge Dewatering House	60	4	0%	0%			14-9ay-25	29-Jul-25	15-Sep-25	01-Dec-25	06-Apr-25	27-Jun-25	104								- E	
DC \$4.1170	External Architectural at Administration Building	40	2	0%	0%			14-Yay-25	03-Jul-25	13-Oct-25	01-Dec-25	06-Apr-25	02-Jun-25	126							· · ·		
Landscaping	Works & Imigation System			0%				14-9ay-25	12-Nov-25	02-Oct-25	05-Feb-28	08-Apr-25	11-Oct-25	85								<b>t</b> t :	
DC \$4.1020	The site wide landscaping works	97	7	0%	0%			11-Jul-25	12-Nov-25	02-Oct-25	05-Feb-28	10-Jun-25	11-Oct-25	70									
DC S4.1080	Installation of Imgation System	97	7	0%	0%			14-Vay-25	13-Sep-25	02-Oct-25	05-Feb-28	09-Apr-25	14-Aug-25	118						1.1			
Construction	of New Security Fence			0%				14-Vsy-25	27-Sep-25	06-Aug-25	05-Feb-28	08-Apr-25	28-Aug-25	106								1	
DC S4.1030	Demolition of Existing Boundary Wall	80	4	0%	0%			14-Yay-25	29-Jul-25	06-44-9-25	21-0ct-25	06-Apr-25	27-Jun-25	70									
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							_ ال		
DC S4.1070	Installation of New Security Fence Metail Works	45	3	0%	0%			04-Aug-25	27-Sep-25	09-Dec-25	05-Feb-26	04-Jul-25	28-Aug-25	106			1.1.1.1				لبها و	<b>e</b> l :	
Completion o	f Section 4 (Working Day)			0%				15-Vor-25	05-Feb-26	06-Jan-26	05-Feb-26	16-Sep-25	16-Oct-25	0				11			1.1		
DC 84.1041	Pre-handover meeting with DSD/ST2	1	0	0%	0%			15-Nor-25	16-Nov-25	06-Jan-26	06-Jan-26	16-Sep-25	18-Sep-25	52				11	1.1			• 1 ( )	
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				- J T		1 1		5	
DC S4.1050	Completion of Section 4	0	9	0%	0%				05-Feb-26*		05-Feb-26		16-Oct-25	0				71				•	
0-month perf	ormance verification (remaining 12 months after S4)			DN-				05-Feb-26	05-Feb-27	DS-Feb-25	05-Feb-27	15-Ocl-25	01-Jan-27	0									
DC.PV.1010	30-month performance vertification (remaining 12 months after S4) (Period from 18th to 30th month)	365	0	0%	0%			05-Feb-26	05-Feb-27	05-Feb-28	05-Feb-27	18-Oct-25	15-Oct-26	0				ι				4	
DC.FV.1020	Date of 12 months after S4	0	0	DN-	0%				05-Feb-27*		05-Feb-27		01-Jan-27	0				$\mathbf{N}$					. I I <mark>.</mark>
DC.S3.5765d10	Submission of final O&M Manual	60	0	DN-	0%			24-Feb-26	24-Apr-26	07-Dec-26	04-Feb-27	13-Dec-25	10-Feb-28	286			10000	-21				- L- L-	<b>4</b>

Primary Baseline	DC/2019/07 OUTLYING ISLANDS SEWERAGE STAGE2 - UPGRADING OF CHEUNG CHAU SEWAGE TREATMENT AND DISPOSAL FACILITIES	Date	Revision	Chec	. Approved
Actual Work	REVEALE INFO SERVICE OF ORACING OF ORACING OF ORACING CALL AND A CALL AND DISCORD FOR THE ORACLE AND A CALL AND DISCORD FOR A CALL AND DI		Rev. 20	JL	CL
Remaining Work	(Page 13 of 13)		Rev. 21 Rev. 22	JL	CL
Critical Remaining Work  Baseline Milestone					

# APPENDIX C Calibration Certificates

(Air Monitoring)

								ALIBRATIO
	51				1		D	UE DATE:
		and the second second					Ma	rch 31, 2024
nvir	onm	nent	al					
	Ce		icate				ation	
			Calibration	Certificat	tion Inform	nation		
Cal. Date:	March 31,	2023	Roots	meter S/N:	438320	Та	: 294	°K
Operator:	Jim Tisch					Pa	748.54	mm Hg
Calibration	Model #:	TE-5028A	Calil	brator S/N:	3702			inning
		Vol. Init	Vol. Final	∆Vol.	ΔTime	ΔΡ	ΔΗ	]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3110	4.1	1.50	]
	3	5	4	1	1.0280	6.7	2.50	
	4	7	8	1	0.9340	8.1	3.00	
	5	9	10	1	0.6580	16.2	3.50 6.00	
						10.2	0.00	
		1	D	ata Tabula	tion			
	Vstd	Qstd	√∆H( <u>Pa</u> Pstd	)( <u>Tstd</u> ) Ta)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-axi	s)	Va	(x-axis)	(y-axis)	
	0.9929	0.7573	1.223		0.9945	0.7586	0.7676	
	0.9894	0.9624	1.579		0.9910	0.9641	0.9909	
	0.9858	1.0573	1.730		0.9892	1.0591	1.0855	
	0.9767	1.4844	1.869		0.9874	1.1376	1.1725	
		m=	1.6802		0.9784	1.4869 m=	1.5351	
	QSTD	b=	-0.0435		QA	b=	-0.02731	
l		r=	0.9999	94		r=	0.99994	
Γ				Calculation	c			
ľ	Vstd= 🛆	Vol((Pa-ΔP)/	Pstd)(Tstd/Ta)		-	Vol((Pa-ΔP	)/Pa)	
		′std/∆Time	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		the second se	/a/ATime	//rd)	
[			For subseque	nt flow rate				
	Qstd= 1	/m(( 1/2H(-	$\frac{Pa}{Pstd}$ $\left(\frac{Tstd}{Ta}\right)$	)-b)	Qa=	11	(Та/Ра))-ь)	
Г	Standard C					// *	1//	
Tstd:	298.15 °			Г		DECAL	DRATION	
Pstd:	760 m	ım Hg		F			BRATION	
AH: calibrate	Ke	y	112.03		US EPA recor	nmends an	nual recalibration	per 1998
ΔH: calibrator ΔP: rootsmet	er manomete	er reading (in	H2O)		40 Code o	f Federal Re	egulations Part 50	to 51.
Ta: actual abs	olute tempe	rature (°K)			Appendix B	to Part 50, I	Reference Metho	d for the
			1	1	Determinatio	on of Susnel	nded Particulate	Mattor in
Pa: actual bar b: intercept	ometric pres	ssure (mm H	g)		+h -	Atmost	e, 9.2.17, page 30	watter in

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	HIVOL SAMPL	ER CALIE	BRATION	DATA SHEE	ET (TSP)
		Site	Information		
ocation:	The admin building inside the construction site	Site ID:	A1a	Date:	03-四月-2023
erial No:	1048	Model:	TE-5170X	Operator:	Andy Li
		Ambie	ent Condition		
ctual Press mm Hg):	ure during Calibration (P <sub>a</sub> )	758.9	Actual Temper Calibration (T <sub>a</sub>		294.1
		Calibi	ration Orifice		
lodel:		TE-	5028A	Slope (m <sub>c</sub> ):	1.05214
erial No.:		3	702	Intercept (b <sub>c</sub> ):	-0.02731
alibration D	ue Date:	31-1	Mar-24	Corr. Coeff:	0.99994
		Calik	pration Data		
Plate or	∆H₂O		X-Axis	I, CFM	IC, Y-Axis
	(in)	(m <sup>3</sup>	³/min)	(chart)	(corrected)
Test #					
18	8.80	2.	.862	64.0	64.38
18 13	8.80 7.00	2.	.862	64.0 61.0	61.36
18	8.80	2. 2. 2.	.862	64.0	
18 13 10 7 5 ampler Calibt m= a = 1/m <sub>e</sub> *[Sqr	8.80 7.00 5.40 3.30 2.00 ation Relationship (Qa on x-axis, 13.9912 t (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>5td</sub> )*(T <sub>5td</sub> /T <sub>a</sub> ))- b <sub>c</sub> ]	2. 2. 2. 1. 1. 1. IC on y-axis)	862 555 248 763 378	64.0 61.0 57.0 51.0 43.0	61.36 57.34
18 13 10 7 5 ampler Calibt: m= (a = 1/m_c*[Sqrt C = I*(Sqrt (P_s/ a = actual flow	8.80 7.00 5.40 3.30 2.00 ation Relationship (Qa on x-axis, 13.9912 t (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>3cd</sub> )*(T <sub>5cd</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] P <sub>5cd</sub> )*(T <sub>5cd</sub> /T <sub>a</sub> )) w rate	2. 2. 2. 1. 1. 1. IC on y-axis)	862 555 248 763 378 = 25.2877 alculations m = sampler slop	64.0 61.0 57.0 51.0 43.0	61.36 57.34 51.30 43.25
18 13 10 7 5 ampler Calibt m= (Sqrt (P <sub>a</sub> / is = actual flow c = corrected of	8.80 7.00 5.40 3.30 2.00 ation Relationship (Qa on x-axis, 13.9912 t (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>5cc</sub> )*(T <sub>5tc</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] P <sub>5tcl</sub> )*(T <sub>5tcl</sub> /T <sub>a</sub> )) w rate hohr response	2. 2. 2. 1. 1. 1. IC on y-axis)	862 555 248 763 378 =	64.0 61.0 57.0 51.0 43.0	61.36 57.34 51.30 43.25
18 13 10 7 5 ampler Calibt: m= (a = 1/m_c*[Sqrt C = I*(Sqrt (P_s/ a = actual flow	8.80 7.00 5.40 3.30 2.00 ation Relationship (Qa on x-axis, 13.9912 t (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>5tcl</sub> )*(T <sub>5tcl</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] (P <sub>5tcl</sub> )*(T <sub>5tcl</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] w rate chart response	2. 2. 2. 1. 1. 1. IC on y-axis)	862 555 248 763 378 = 25.2877 alculations m = sampler slop	64.0 61.0 57.0 51.0 43.0	61.36 57.34 51.30 43.25
18           13           10           7           sampler Calibit           m=		2. 2. 2. 1. 1. 1. IC on y-axis)		64.0 61.0 57.0 51.0 43.0	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)
18         13           10         7           7         5           ampler Calibt         m=           a= 1/me*[Sqrt (Ps/ a = actual flow = actual flow = actual chart         actual flow		2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		e e crcept s rature during calibra	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)
18           13           10           7           5   meter Calibt meter Calibt meter Calibr meter Calibration a = actual flow a = actual flow a = actual chart c = calibrator actual chart c = calibrator		2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{l} 862 \\ 555 \\ 248 \\ 763 \\ 378 \\ \end{array}$ = 25.2877 alculations m = sampler slop b =	e ccept srature during calibration	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)
18           13           10           7           5   metal flow a = actual flow a = corrected c actual chart = calibrator = calibrator 72	8.80 7.00 5.40 3.30 2.00 ation Relationship (Qa on x-axis, 13.9912 t (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>5t0</sub> )*(T <sub>5t0</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] (P <sub>5t0</sub> )*(T <sub>5t0</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] (P <sub>5t0</sub> )*(T <sub>5t0</sub> /T <sub>a</sub> )) w rate chart response response slope intercept	2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{l} 862 \\ 555 \\ 248 \\ 763 \\ 378 \\ \end{array}$ = 25.2877 alculations m = sampler slop b =	e e crcept s rature during calibra	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)
18           13           10           7           5           mpler Calibt           m=           1/me*[Sqr           = 1/me*[Sqr           = actual flow           = corrected actual chart           = calibrator           72           62	8.80 7.00 5.40 3.30 2.00 ation Relationship (Qa on x-axis, 13.9912 t (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>3ce</sub> )*(T <sub>3ce</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] P <sub>3cel</sub> )*(T <sub>3ce</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] P <sub>3cel</sub> ×(T <sub>3ce</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] v rate chart response response response response slope intercept	2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{l} 862 \\ 555 \\ 248 \\ 763 \\ 378 \\ \end{array}$ = 25.2877 alculations m = sampler slop b =	e ccept srature during calibration	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)
18           13           10           7           5   mpler Calibit m= 1/me*[Sqrt (Pg/ actual flow corrected actual chart = calibrator = calibrator 72 62	8.80       7.00       5.40       3.30       2.00       ation Relationship (Qa on x-axis, 13.9912       t (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>stal</sub> )*(T <sub>stal</sub> /T <sub>a</sub> ))- b <sub>c</sub> ]       P <sub>stal</sub> )*(T <sub>stal</sub> /T <sub>a</sub> ))       w rate       hart response       response       slope       intercept	2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{l} 862 \\ 555 \\ 248 \\ 763 \\ 378 \\ \end{array}$ = 25.2877 alculations m = sampler slop b =	e ccept srature during calibration	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)
18           13           10           7           5           mpler Calibt           m=           = 1/me*[Sqrt (Pg/           = actual flow           = corrected actual chart           = calibrator           = calibrator           72           62	8.80           7.00           5.40           3.30           2.00           ation Relationship (Qa on x-axis, 13.9912           tt (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>stal</sub> )*(T <sub>stal</sub> /T <sub>a</sub> ))- b <sub>c</sub> ]           (P <sub>stal</sub> )*(T <sub>stal</sub> /T <sub>a</sub> ))           w rate           hart response response           slope           intercept	2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{l} 862 \\ 555 \\ 248 \\ 763 \\ 378 \\ \end{array}$ = 25.2877 alculations m = sampler slop b =	e ccept srature during calibration	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)
18           13           10           7           5           mpler Calibt           m=           1/me*[Sqr           = 1/me*[Sqr           = actual flow           = corrected actual chart           = calibrator           72           62	8,80           7.00           5,40           3.30           2.00           ation Relationship (Qa on x-axis, 13.9912           tt (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>sta</sub> )*(T <sub>Sta</sub> /T <sub>a</sub> ))- b <sub>c</sub> ] (P <sub>Sta</sub> )*(T <sub>Sta</sub> /T <sub>a</sub> )) w rate chart response response slope intercept           .00           .00           .00	2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{l} 862 \\ 555 \\ 248 \\ 763 \\ 378 \\ \end{array}$ = 25.2877 alculations m = sampler slop b =	e ccept srature during calibration	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)
18           13           10           7           5           mpler Calibt           m=           1/me*[Sqr           = 1/me*[Sqr           = actual flow           = corrected actual chart           = calibrator           72           62	8.80 7.00 5.40 3.30 2.00 ation Relationship (Qa on x-axis, 13.9912 t ( $\Delta H_2O^*(P_2/P_{Stal})^*(T_{Stal}/T_a)) - b_c]$ r( $T_{Stal}/T_a)$ ) w rate chart response response slope intercept	2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{l} 862 \\ 555 \\ 248 \\ 763 \\ 378 \\ \end{array}$ = 25.2877 alculations m = sampler slop b =	e ccept srature during calibration	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)
18           13           10           7           5           mpler Calibt           m=	8.80           7.00           5.40           3.30           2.00           ation Relationship (Qa on x-axis, 13.9912           t (ΔH <sub>2</sub> O*(P <sub>a</sub> /P <sub>3ce</sub> )*(T <sub>3ce</sub> /T <sub>a</sub> ))- b <sub>c</sub> ]           P <sub>3ce</sub> )*(T <sub>3ce</sub> /T <sub>a</sub> ))           w rate           h-bart response           response           ·slope           intercept	2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	862 555 248 763 378 = 25.2877 alculations m = sampler slop b = sampler inte T <sub>Suf</sub> = 298 deg K P <sub>Suf</sub> = 760 mm H <sub>2</sub> P <sub>suf</sub> = 760 mm H <sub>2</sub> P <sub>suf</sub> = actual tempt P <sub>a</sub> = actual tempt P <sub>a</sub> = actual tempt	e ccept srature during calibration	61.36 57.34 51.30 43.25 Corr. Coeff= 0.99 tion (deg K)





#### HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

		Site I	nformation		
Location:	The existing outfall pumping station inside the construction site	Site ID:	A2A	Date:	03-Apr-2023
Serial No:	1085	Model:	TE-5170X	Operator:	Andy Li

#### Ambient Condition

Actual Pressure during Calibration (P <sub>a</sub> ) (mm Hg):		Actual Temperature during Calibration (T <sub>a</sub> ) (deg K):	294.1
--	--	---	-------

	Calibration Orifice		
Model:	TE-5028A	Slope (m <sub>c</sub> ):	1.05214
Serial No.:	3702	Intercept (b <sub>c</sub> ):	-0.02731
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)	(m³/min)	(chart)	(corrected)
18	9.00	2.894	58.0	58.35
13	7.30	2.609	52.0	52.31
10	5.20	2.206	48.0	48.29
7	3.40	1.789	42.0	42.25
5	2.00	1.378	33.0	33.20

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis) 15.6543

Corr. Coeff=

0.9916

Calculations

12.8243

b=\_

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

Qa = actual flow rate

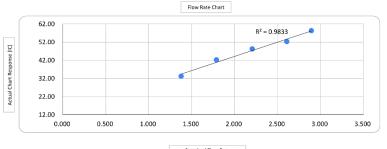
m=

IC = corrected chart response I = actual chart response

m<sub>c</sub> = calibrator slope

b<sub>c</sub> = calibrator intercept

m = sampler slope b = sampler intercept T<sub>Std</sub> = 298 deg K P<sub>Std</sub> = 760 mm Hg  $\label{eq:tau} \begin{array}{l} T_a = actual \ temperature \ during \ calibration \ (deg \ K) \\ P_a = actual \ pressure \ during \ calibration \ (mm \ Hg) \end{array}$ 



Standard Flow Rate (m<sup>3</sup>/min)

herter 7 Checked by: Tandy Tse Senior Consultant, Environmental

Date: 03-Apr-2023



SIBATA SCIENTIFIC TECHNOLOGY LTD. 1-1-62, Nakane, Soka, Saitama, 340-0005 Japan TEL. +81-48-933-1582 FAX. +81-48-933-1591

Date: January 23th, 2023

### CALIBRATION CERTIFICATE

Equipment Name Code No. Quantity Serial No. Sensitivity Sensitivity Adjustment Scale Setting

- Digital Dust Indicator, Model LD-5R
  080000-73
  1 unit
  2Y6549
  0.001 mg/m3
  549 CPM
  - : November 15th, 2022.

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

long Zhang (Signature) Tong Zhang Overseas & New Business Group **Overseas Sales Department** 



SIBATA SCIENTIFIC TECHNOLOGY LTD. 1-1-62, Nakane, Soka, Saitama, 340-0005 Japan TEL. +81-48-933-1582 FAX. +81-48-933-1591

Date: January 23th, 2023

## CALIBRATION CERTIFICATE

Equipment Name Code No. Quantity Serial No. Sensitivity Sensitivity Adjustment Scale Setting Digital Dust Indicator, Model LD-5R
080000-73
1 unit
2Y6550
0.001 mg/m3
665 CPM
November 15th, 2022.

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

Jong Than (Signature) Tong Zhang

Overseas & New Business Group

# APPENDIX D Monitoring Data (Air)

Location:	A1a
Monitoring Period:	April 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 <sup>st</sup> Hour (μg/m³)	2 <sup>nd</sup> Hour (μg/m³)	3 <sup>rd</sup> Hour (μg/m³)
3/4/2023	Cloudy	14:47	55	67	64
11/4/2023	Sunny	14:03	59	69	70
17/4/2023	Cloudy	14:15	65	66	61
24/4/2023	Fine	13:59	139	107	117
27/4/2023	Sunny	14:10	59	47	47
	·	Average		73	
		Range		47 - 139	

21° EMAA Report – April 2025	
Location:	A2a
Monitoring Period:	April 2023
Parameter:	TSP 1-hour
Major Dust Source	Construction activities and daily operation of the sewerage treatment plant

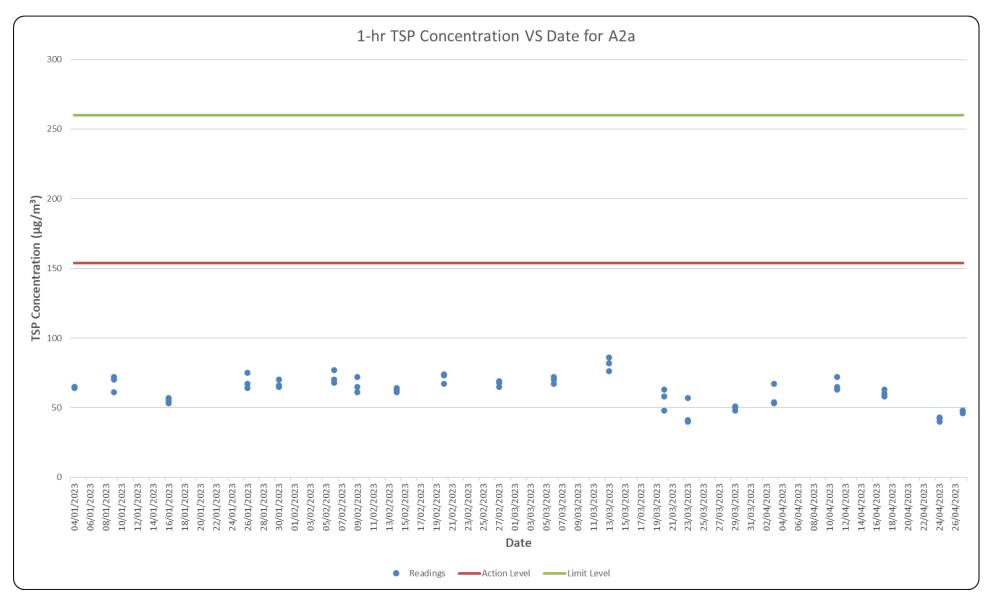
Other Factors

NA

Date	Weather	Start Time	1 <sup>st</sup> Hour (μg/m³)	2 <sup>nd</sup> Hour (μg/m <sup>3</sup> )	3 <sup>rd</sup> Hour (μg/m³)
3/4/2023	Cloudy	14:37	67	54	53
11/4/2023	Sunny	13:46	63	72	65
17/4/2023	Cloudy	13:47	58	60	63
24/4/2023	Fine	13:40	40	42	43
27/4/2023	Sunny	14:00	48	48	46
	·	Average		55	
		Range		40 - 72	

Figure D.1 Measured 1-Hour TSP at the admin building inside the construction site (A1a) 1-hr TSP Concentration VS Date for A1a 300 250 200 TSP Concentration  $(\mu g/m^3)$ 150 100 • ۲ • 50 0 2023/1/4 2023/1/6 2023/2/15 2023/2/17 2023/2/19 2023/3/13 2023/3/15 2023/3/17 2023/3/19 2023/3/21 2023/3/23 2023/3/25 2023/3/27 2023/4/18 2023/4/20 2023/4/22 2023/1/18 2023/1/20 2023/1/22 2023/1/24 2023/2/5 2023/2/7 2023/2/9 2023/2/23 2023/2/25 2023/2/27 2023/1/8 2023/1/10 2023/1/12 2023/1/14 2023/1/16 2023/1/26 2023/1/28 2023/1/30 2023/2/3 2023/2/11 2023/2/13 2023/2/21 2023/3/3 2023/3/5 2023/3/9 2023/3/11 2023/3/29 2023/3/31 2023/4/2 2023/4/4 2023/4/6 2023/4/8 2023/4/12 2023/4/14 2023/4/16 2023/4/24 2023/2/1 2023/3/1 2023/3/7 2023/4/10 2023/4/26 Date Reading ——Action Level ——Limit Level





Location:	A1a
Parameter:	TSP 24-hour
Major dust source	Construction activities and daily operation of the sewerage treatment plant
Other Factors	NA

Start Date	Avg Air Temp	Avg Atmos pheric Pressu re	Weather Condition	Elapse Time		Sampling Time	Flow Rate	Standard Air Volume	Filter Weigh	ıt (g)	Particulate weight	Conc.
	(°C)	(mm Hg)		Initial (min)	Final (min)	Actual (min)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m³)
04/04/2023	24.5	1009.4	Cloudy	267998.0	269493.0	1495.0	1.11	1666	2.6653	2.7636	0.0983	59
11/04/2023	24.6	1012.6	Sunny	269493.0	270968.0	1475.0	1.19	1762	2.7836	2.8693	0.0857	49
17/04/2023	26.4	1010.8	Cloudy	270968.0	272440.0	1472.0	1.11	1633	2.7779	2.8719	0.0940	58
24/04/2023	23.0	1014.1	Cloudy	272440.0	273937.0	1497.0	1.14	1700	2.7399	2.8602	0.1203	71
27/04/2023	23.4	1014.5	Sunny	273937.0	275377.0	1440.0	1.28	1840	2.7813	2.8752	0.0939	51
											Average	57

Range 49 - 71

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 Atmos pheric Pressu re	Weather Condition	Elapse Time		Sampling Time	Flow Rate	Standard Air Volume	Filter Weigh	ıt (g)	Particulate weight	Conc.
	(°C)	(mm Hg)	]	Initial (min)	Final (min)	Actual (min)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m³)
03/04/2023	22.3	1010.6	Cloudy	486854.0	488349.0	1495.0	1.55	2315	2.6637	2.7448	0.0811	35
11/04/2023	24.6	1012.6	Sunny	488349.0	489828.0	1479.0	1.61	2379	2.7627	2.8534	0.0907	38
17/04/2023	26.4	1010.1	Cloudy	489828.0	491304.0	1476.0	1.60	2357	2.7886	2.9008	0.1122	48
24/04/2023	23.0	1014.1	Cloudy	491304.0	492790.0	1486.0	1.55	2310	2.7615	2.8807	0.1192	52
27/04/2023	23.4	1014.5	Sunny	492790.0	494241.0	1451.0	1.55	2254	2.7730	2.8671	0.0941	42

Average43Range35 - 52

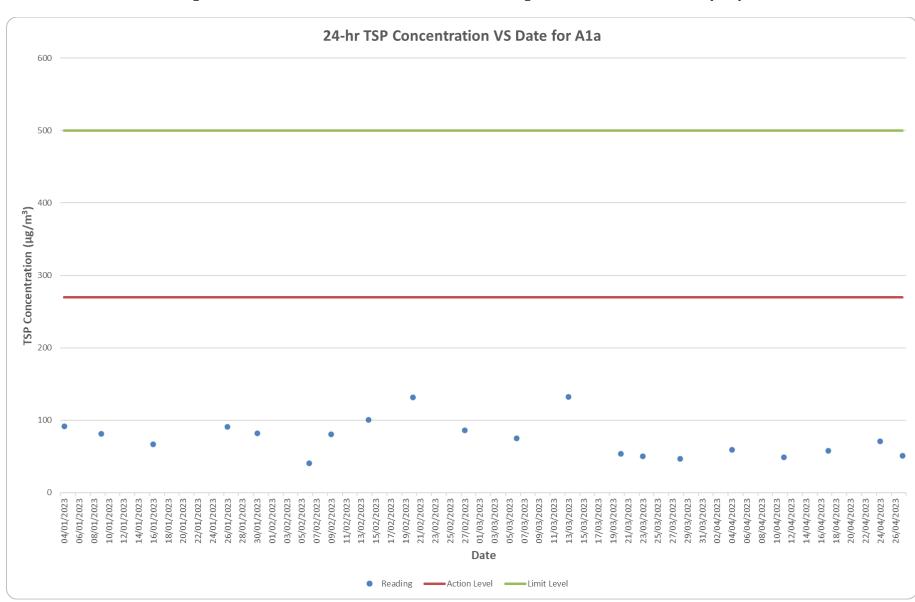
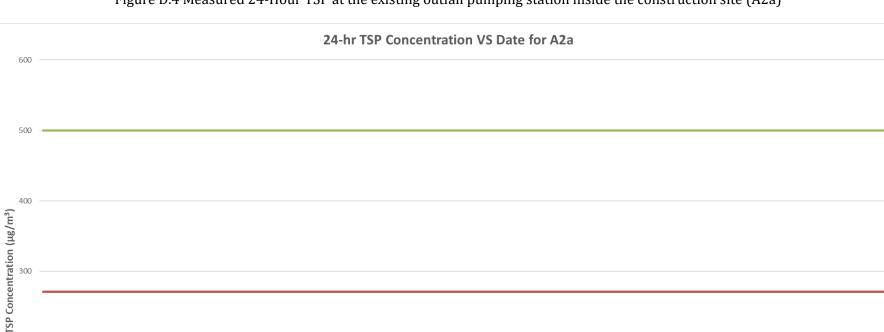


Figure D.3 Measured 24-Hour TSP at the admin building inside the construction site (A1a)

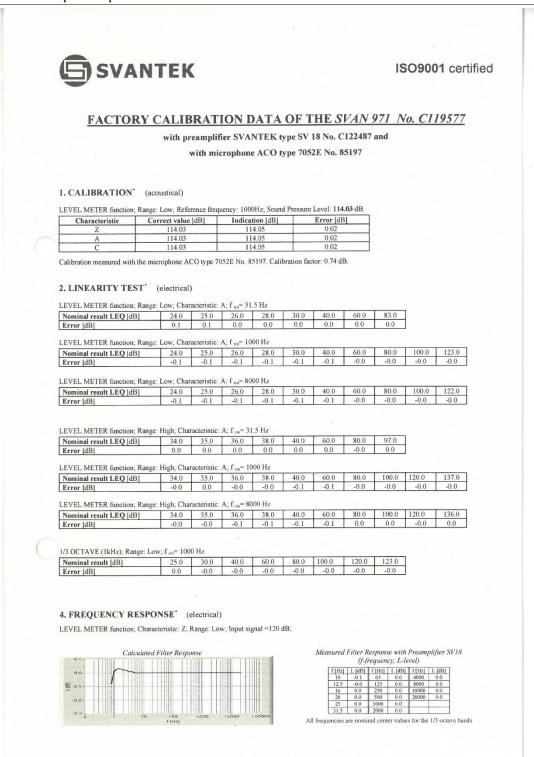
200



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



# APPENDIX E Calibration Certificates (Noise)



5. INTERNAL NOISE LEVEL' (electrical - compensated)

EVEL METER function; R	ange: Low; (Back-light	- off) ; Calibratio	n factor: 0dB
Characteristic	Z	A	C
Level [dB]	≤20	≤12	≤12

\* measured with preamplifier SVANTEK type SV 18 No. C122487.

#### 6. INTERNAL NOISE LEVEL (acoustical - compensated)

LEVEL METER function; Characteristic: A; (Backlight - off) Range Indication [dB] Low High <15 20.5

Noise measured in special chamber, with reference microphone G.R.A.S type 40AN No. 73421

#### ENVIRONMENTAL CONDITIONS

Temperature	Relative humidity	Ambient pressure
23 °C	42%	1008 hPa

#### TEST EQUIPMENT

Item	Manufacturer	Manufacturer Model Serial no.		Description
1.	SVANTEK	SVAN 401	100	Signal generator
2.	SVANTEK	SVAN 912A	4369	Sound & Vibration Analyser
3.	RIGOL	DM3068	DM30155100773	Digital multimeter
4.	SVANTEK	SV33B	93171	Acoustic calibrator
5.	SVANTEK	ST02	-	Microphone equivalent electrical impedance (18pF)

#### **CONFORMITY & TEST DECLARATION**

Herewith Svantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.
 The acoustic calibration was performed using the Sound Calibrator and is traceable to the GUM (Central Office of Measures) reference standard - sound level calibrator type 4231 No 2292773.

Auro

3. The information appearing on this sheet has been compiled specifically for this instrument. This form is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein. 4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd

Calibration specialist: Cezary Dardziński

Test date: 2022-10-11



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		LIDDATION	DEGILI	Certificate N	No. D22
	CA	LIBRATION	RESULT		
1 Sound	pressure level (wi	ith reference stand	ard microphone)		
	Measured	Expanded	in morephone,		
1	value	uncertainty *1			
	93.99 dB	0.09 dB			
Typ Ser	ied secondary stand be : 4160 ial number : 2973 nce Sound pressur	) 3341			
*1 Define	e an interval estim	nated to have a level	of confidence of	annroximately 95	5 %
	age factor <i>k</i> =2	nated to have a level	or confluence of a	approximately 50	
		ibration value in am	hight conditions	during calibratio	m
cumoran				0	
	BE OUT	OF JCSS CA	LIBRATIC	)N	
1. Freque				)N	
1. Freque		Measureme	ıt	DN	
1. Freque	ncy	Measuremen	ıt	DN	
1. Freque	ncy Measured value	Measuremen uncertainty ( <i>k</i> =2)	ıt	)N	
	ncy Measured value 1000.0 Hz	Measuremen uncertainty ( <i>k</i> =2) 3.9×10 <sup>-4</sup> Hz	ıt	DN	
Worki Typ Ser	Measured value 1000.0 Hz ng measurement s se : 53 rial number : MY	Measuremen uncertainty ( <i>k</i> =2)	t counter:	DN	
Worki Typ Ser (JC	Measured value 1000.0 Hz ng measurement s pe : 53 rial number : M SS Calibration Co	Measuremen uncertainty (k=2) 3.9×10 <sup>.4</sup> Hz standard universal 132A Y40005574	t counter:	DN	
Typ Ser	Measured value 1000.0 Hz ng measurement s pe : 53 rial number : M SS Calibration Co stortion	Measuremen uncertainty (k=2) 3.9×10 <sup>.4</sup> Hz standard universal 132A Y40005574	t counter:	DN	
Worki Typ Ser (JC	Measured value 1000.0 Hz ng measurement a be : 53 rial number : M SS Calibration Co astortion Measured	Measuremen uncertainty (k=2) 3.9×10 <sup>.4</sup> Hz standard universal 132A Y40005574	t counter:	DN	
Worki Typ Ser (JC	Measured value 1000.0 Hz ng measurement s oe : 53 rial number : M SS Calibration Co stortion Measured value	Measuremen uncertainty (k=2) 3.9×10 <sup>.4</sup> Hz standard universal 132A Y40005574	t counter:	DN	
Worki Typ Ser (JC 2. Total di	Measured value 1000.0 Hz ng measurement s be : 53 rial number : M SS Calibration Co stortion Measured value 0.2 %	Measuremen uncertainty (k=2) 3.9×10 <sup>-4</sup> Hz standard universal 132A Y40005574 ertificate No. 21083	tt  counter: 499079575510)	DN	
Worki Typ Ser (JC 2. Total di [ Worki Typ	Measured value 1000.0 Hz ng measurement s be : 53 rial number : M SS Calibration Co stortion Measured value 0.2 % ng measurement be : VA	Measuremen uncertainty (k=2) 3.9×10 <sup>.4</sup> Hz standard universal 132A Y40005574	tt  counter: 499079575510)	DN	
Worki Typ Ser (JC 2. Total di [ Worki Typ Ser	Measured value 1000.0 Hz ng measurement sole : 53 rial number : M SS Calibration Co stortion Measured value 0.2 % ng measurement oe : VA rial number : 11	Measuremen uncertainty (k=2) 3.9×10 <sup>-4</sup> Hz standard universal 132A Y40005574 ertificate No. 21083	nt counter: 499079575510) meter:	DN	
Worki Typ Ser (JC 2. Total di [ Worki Typ Ser	Measured value 1000.0 Hz ng measurement sole : 53 rial number : M SS Calibration Co stortion Measured value 0.2 % ng measurement oe : VA rial number : 11	Measuremen uncertainty (k=2) 3.9×10 <sup>-4</sup> Hz standard universal 132A Y40005574 ertificate No. 2108: standard distortion A-2230A 076061	nt counter: 499079575510) meter:	DN	- cl

# APPENDIX F Monitoring Data (Noise)

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

Date	Weather	Start Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>		
4/4/2023	Cloudy	15:40	73.5	75.0	71.7		
12/4/2023	Sunny	14:51	74.3	76.8	70.7		
18/4/2023	Cloudy	14:48	73.2	75.8	69.7		
25/4/2023	Cloudy	15:20	73.0	75.0	70.1		
Average 73.5							
		Range	<b>73.0 – 74.3</b>				

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

Date	Weather	Start Time	Leq	L <sub>10</sub>	L90
4/4/2023	Cloudy	14:40	70.3	74.4	55.4
12/4/2023	Sunny	13:22	74.6	77.9	54.9
18/4/2023	Cloudy	13:21	70.7	73.4	53.2
25/4/2023	Cloudy	13:16	74.9	78.4	55.5
			73.1		
		Range		70.3 - 74.9	

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

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





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

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

# APPENDIX G Implementation Schedule

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	impl	tion / Tin ementat Measure	ion of	What requirements or standards for the measures to achieve?
			measures?	D	С	0	
Construction Phase	(Upgrading Works of Cheung Chau STW and Pak She SPS	(DP Component))		<u> </u>			•
S.3.5.5	<ul> <li>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/m<sup>3</sup>. These measures include, but are not limited to, the following: <ul> <li>Adoption of good site practices;</li> <li>Avoid practices likely to raise dust level;</li> <li>Frequent cleaning and damping down of stockpiles and dusty areas of the site;</li> <li>Covering the exposed areas with tarpaulin;</li> <li>Reducing drop height during material handling;</li> <li>Provision of wheel-washing facilities for site vehicles leaving the site;</li> <li>Regular plant maintenance to minimize exhaust emission; and</li> <li>Sweep up dust and debris at the end of each shift.</li> </ul> </li> </ul>	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	impl	Location / Timing of implementation of Measures		What requirements or standards for the measures to achieve?
			measures?	D	С	0	
S.3.10.1	Watering every 1.5 hours on active works areas and paved haul roads to reduce dust emissions by 90.9% (e.g. watering intensity at 0.5 litres/m <sup>2</sup> . 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 <sup>2</sup> during the first hour, subsequent application at 0.2 litre/m <sup>2</sup> . 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	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	impl	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		$\checkmark$		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		$\checkmark$		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		$\checkmark$		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs	Air Quality (fugitive dust) Control during Construction Phase	Contractors		V		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures			What requirements or standards for the measures to achieve?
				D	с	0	
S.3.10.1	Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or spayed with water to maintain the entire surface wet during the non-working hours	Air Quality (fugitive dust) Control during Construction Phase	Contractors		~		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	All dusty materials shall be sprayed with water prior to any loading, unloading or transfer operation so as to keep the dusty materials wet	Air Quality (fugitive dust) Control during Construction Phase	Contractors		$\checkmark$		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		$\checkmark$		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?	impl	tion / Tim ementati Measure	on of	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)

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 (Upgrading Works of Cheung Chau STW and Pak She SPS (DP Component))											
S.4.4.12	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	Noise control during construction	Contractors	At all construction areas of the site during the entire construction period	EIA, Contractual requirements						
S.4.4.12	Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	Noise control during construction	Contractors	At all construction areas of the site during the entire construction period	EIA, Contractual requirements						
S.4.4.12	Plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs.	Noise control during construction	Contractors	At all construction areas of the site during the entire construction period	EIA, Contractual requirements						
S.4.4.12	Mobile plant should be sited as far away from NSRs as possible.	Noise control during construction	Contractors	At all construction areas of the site during the entire construction period	EIA, Contractual requirements						
S.4.4.12	Material stockpiles and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.	Noise control during construction	Contractors	At all construction areas of the site during the entire construction period	EIA, Contractual requirements						

EIA Ref.	Recommended Environmental Protection Measures / Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
S.4.4.13	Use of quiet plant (PME): Generator Poker, vibratory, hand-held Breaker, excavator mounted (hydraulic) Excavator Tracked Mobile Crane Vibratory Compactor Dumper Air compressor Concrete Pump Pilling Rig	Noise control during construction	Contractors	At all construction areas of the site during the entire construction period	EIA, Contractual requirements
S.4.4.14	Temporary site hoardings of 2.4 m high are recommended for the works at the Pak She SPS. The hoardings will be erected along the works boundary facing the NSRs. The PME involved in the works would be screened by the erected site hoardings. Without direct line of sight from the affected NSRs, a noise reduction of 10 dB(A) could be achieved provided that the hoardings have no openings or gaps and have a surface mass of at least 7 kg/m <sup>2</sup> . Nonetheless, a -5 dB(A) screening correction for site hoardings has been applied as a more conservative approach.	Noise control during construction	Contractors	At Pak She SPS during the entire construction period	EIA
S.4.4.23	For NSRs which would be affected by more than one Works Types, good scheduling works is recommended to minimize the cumulative construction noise impacts due to different Works Types.	Noise control during construction	Contractors	Construction areas near the specified locations during the construction period	EIA, Contractual requirements

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

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

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)	<ul> <li>Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric materials during storms;</li> <li>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;</li> <li>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.</li> </ul>	Water Quality Control	Contractors		V		<ul> <li>WPCO;</li> <li>TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water</li> </ul>
S.5.7.2 and S.5.7.3	<ul> <li>Mitigations Measures for General Construction Activities:</li> <li>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</li> <li>Good construction and site management practices should be implemented to ensure that litter, fuels, and solvents would not enter the public drainage systems.</li> </ul>	Water Quality Control	Contractors		~		<ul> <li>WPCO;</li> <li>TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water</li> </ul>

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		V		<ul> <li>WPCO;</li> <li>TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water</li> </ul>
S.5.7.5 and S.5.7.6	<ul> <li>Mitigations Measures for Spillage of Chemicals:</li> <li>Registration to EPD as a Chemical Waste Producer if chemical wastes are generated and need to be disposed of;</li> <li>Illegal disposal of chemicals should be strictly prohibited; and</li> <li>Oils and fuels should only be used and stored in the designated area which has polluting prevention facilities.</li> </ul>	Water Quality Control	Contractors		V		<ul> <li>WPCO;</li> <li>TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water</li> </ul>

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 (U	pgrading Works of Cheung Chau STW and Pak She SPS (DP Comp	oonent) and Sewers Work	s (non-DP Compor	nent))			1
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		V		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		~		Waste Disposal Ordinance
S.6.6.1	Regular cleaning and maintenance programme for drainage systems, pumps and oil interceptors.	Waste management during construction	Contractors		V		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	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.	Waste management during construction	Contractors		V		Waste Disposal Ordinance
S.6.6.1	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	Waste management during construction	Contractors		V		Waste Disposal Ordinance
S.6.6.1	A recording system for the amount of wastes generated, recycled and disposed (including disposal sites) should be proposed.	Waste management during construction	Contractors		V		Waste Disposal Ordinance
S.6.6.1	Plan and stock construction materials to minimise amount of waste generated and avoid unnecessary generation of waste.	Waste management during construction	Contractors		V		Waste Disposal Ordinance
S.6.6.2	Alternatives C&D materials such as steel frameworks and plastic fencing can be considered to increase the chances for reuse.	Waste management during construction	Contractors		V		Waste Disposal Ordinance
S.6.6.3	In order to minimise the potential environmental impacts resulting from collection and transportation of C&D materials for off-site disposal, the excavated materials comprising fill materials should be reused on-site as backfilling materials as far as practicable.	Waste management during construction	Contractors		~		Waste Disposal Ordinance

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

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main	Who to implement the measures?		to imple measure		What requirements or standards for the
		concerns to address		D	С	0	measures to achieve?
S.6.6.7	For the disposal of chemical wastes produced at the construction site, the Contractor is required to register with the EPD as a Chemical Waste Producer and to follow the requirements stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used. Appropriate labels should be securely attached on each chemical waste container indicating the chemical characteristics of the chemical waste, such as explosives, flammable oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall also use a licensed waste collector engaged to transport and dispose of the chemical wastes in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Waste management during construction	Contractors		V		Waste Disposal (Chemical Waste) (General) Regulation
S.6.6.8	Chemical toilets to be provided on-site shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal.	Waste management during construction	Contractors		$\checkmark$		Waste Disposal Ordinance
EIA Ref.	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))		I				
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 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	<ul> <li>Tree Transplanting</li> <li>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.</li> <li>Tree pruning such as topping, lion tailing would be prohibited as far as possible. Also, frequent keep watering would be necessary for transplanting trees. The proposed tree preservation measures during construction would be carried out and approved by the competent persons.</li> </ul>	Landscape mitigation measures	DSD and Contractors	$\checkmark$	V		EIA, Annex 10 and Annex 18 of EIAO- TM
Table 11.8	Construction Light Security floodlight for construction areas shall be controlled, such as equipped with adjustable shield, frosted diffusers and reflective covers, at night to avoid excessive glare to the nearby areas and residents. Other security measures shall also be considered to minimize the visual impacts by construction light.	To reduce the night-time glare effect to the surrounding environs.	Contractors		$\checkmark$		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	Dust and Erosion Control for Exposed Soil Excavation works and demolition of existing building blocks shall be well planned with precautions to suppress dust. Exposed soil shall be covered or watered often. Areas that are expected to be left with bare soul for a long period of time after excavation shall be properly covered with suitable protective fabric. Suitable drainage shall be provided around construction sites to avoid discharge of contaminants and sediments into sensitive water-based habitats.	To minimise the disturbance to existing landscape resources and minimise the impacts on the visual amenity of the area	Contractors		V		EIA, Annex 10 and Annex 18 of EIAO- TM
Table 11.8	Reinstatement of Works Areas The affected works areas shall be properly reinstated to the satisfaction of relevant government departments.	Landscape mitigation measures	Contractors		$\checkmark$		EIA, Annex 10 and Annex 18 of EIAO- TM

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

#### Statistical Summary of Environmental Complaints

	Environmental Complaints Statistics						
Reporting Period	Frequency	Nature	Follow-up Actions				
1 April 2023 -	0	N/A	NT/ A				
30 April 2023	0	N/A	N/A				
Cumulative	0	N/A	N/A				

### Statistical Summary of Environmental Summons

	Environmental Summons Statistics						
Reporting Period	Frequency	Nature	Follow-up Actions				
1 April 2023 -	0	NT/A	NT/ A				
30 April 2023	0	N/A	N/A				
Cumulative	0	N/A	N/A				

## Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics						
Reporting Period	Frequency	Nature	Follow-up Actions				
1 April 2023 -	0	N/A	N/A				
30 April 2023	0	N/A					
Cumulative	0	N/A	N/A				

# Appendix I

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



Apr-23							
n	Mon	Тие	Wed	Thu	Fri	Sat 1	
			Daytime Noise monitoring for N2a & N3a				
	3	4	5	6	7	8	
	24-hour TSP monitoring for A2a 1-hour TSP monitoring for A1a & A2a	24-hour TSP monitoring for A1a Daytime Noise monitoring for N2a & N3a					
	10	11	12	13	14	15	
		24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a				
i	17	18	19	20	21	22	
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a					
<b>I</b>	24	25	26	27	28	29	
	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			
)							
emarks:							



	······································		ading of Cheung Chau Sewage Collec May-23	•		
Sun	Mon	Tue		Thu	Fri	Sat
		2			5	6
			24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a		
t	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			
14	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	Daytime Noise monitoring for N2a & N3a				
28	29	30	31			
		Daytime Noise monitoring for N2a & N3a				