





Contract No. DC/2019/07

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

24th Monthly Environmental Monitoring and Audit Report – July 2023

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REVISION HISTORY

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EXECUTIVE SUMMARY

- A.1 Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection (DEP) granted the Environmental Permit (No. EP-488/2014/A) to DSD for the Project.
- A.2 Upon the requirement of the Environmental Permit (EP), the Monthly EM&A Monitoring Report shall be submitted to the DEP within 10 working days after the end of the reporting month. The submissions shall be verified by the Independent Environmental Checker (IEC) and complied with the requirements set out in the Environmental Monitoring and Audit (EM&A) Manual before submission to the DEP as stipulated in Condition 4.4 of the EP.
- A.3 The commencement date of the Project was 6 August 2021. Impact environmental monitoring of 24-hour TSP, 1-hour TSP and noise was conducted as stipulated in Condition 4.2 of the EP. This is the 24th 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 July to 31 July 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
 - Repair Works for Existing Sludge Ramp
 - Excavation and Lateral Support (ELS) at CCSTW
 - Construction of Sludge Digester Building
 - Construction of MBR Treatment Facilities
 - Erection of Tower Crane "XCMG XT335"
 - Energization of Electrical System and Permit to Work Procedure
- 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/m ³			
Location	Avei	rage	Ran	ge
	TSP-1hr	TSP-24hr	TSP-1hr	TSP-24hr
A1a	57	36	47 - 67	20 - 70
A2a	51	50	45 - 63	32 - 85

Table A – Monitoring Results (Dust)

Table B - Monitoring Results (Noise)

	Noise in o	dB(A)
Location	Average	Range
	L _{eq (30 min)} (7:00-19:00)	Leq (30 min) (7:00-19:00)
N2a	68.1	66.7 - 69.2
N3a	70.5	66.3 - 74.8

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

- A.10 According to Section 4.3.3 of the EM&A Manual, Site inspection shall be carried out by the ET and attention shall be paid to the mitigation measures recommended for water pollution control. Weekly site inspections were carried out and no non-compliance was spotted during the reporting month.
- A.11 Waste management mitigation measures were properly implemented in the reporting period.
- A.12 For cultural heritage impact, as this Project does not involve proposed sewers works, according to Section 6.1.5 of the EM&A Manual, no EM&A requirement is considered necessary during the construction and operational phase of upgrading of Cheung Chau STW and Pak She SPS.
- A.13 The recommended landscape and visual mitigation measures were properly implemented in the reporting period.
- A.14 Weekly site inspection of the construction work by ET were carried out on 04, 11, 18 and 24 July 2023.
- A.15 No environmental complaint was received during the reporting period.
- A.16 No notification of summons or prosecution was received in the reporting period.
- A.17 A map of the construction site and monitoring locations are shown in <u>Appendix A</u>.
- A.18 The summary of permit / licences for this Project is presented in **Table C** below:

Nature	Number	Issue Date	Expiry Date
Environmental Permit	EP-488/2014/A	13/05/2021	N/A
Notification pursuant to	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			
Permit issued under the	EP/MD/23-112	07/03/2023	06/09/2023
Dumping At Sea			
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			

Table C – Summary of Permit / Licences

1. INTRODUCTION

1.1. BACKGROUND

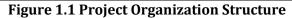
- 1.1.1. Drainage Services Department (DSD) has contracted Build King Civil Engineering Limited (BK) to carry out the Outlying Islands Sewerage Stage 2 Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities under Contract No. DC/2019/07.
- 1.1.2. Acuity Sustainability Consulting 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).

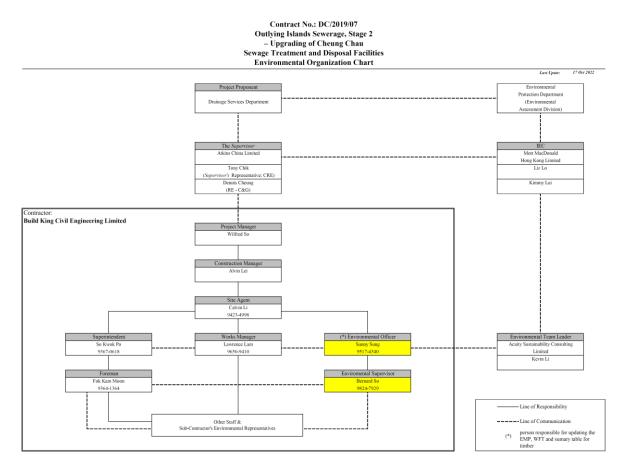
1.2. PROJECT DESCRIPTION

- 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	Role	Contact Person	Phone No.
Drainage Services Department HKSAR (DSD)	Project Proponent	QIU Yujiing, Eugene	2594 7298
Supervisor / Supervisor's Representative (Atkins China Limited)	Resident Engineer	Dennis Cheung	2675 3910
Environmental Team (Acuity Sustainability Consulting Limited)	Environmental Team Leader	Kevin Li	2698 6833
Independent Environmental Checker (Mott Macdonald Hong Kong Limited)	Independent Environmental Checker	Liz Lo	2828 5751
Contractor (Build King Construction	Site Agent	Calvin Li	9423 4998
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 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
- Repair Works for Existing Sludge Ramp
- Excavation and Lateral Support (ELS) at CCSTW
- Construction of Sludge Digester Building
- Construction of MBR Treatment Facilities
- Erection of Tower Crane "XCMG XT335"
- Energization of Electrical System and Permit to Work Procedure

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
- Repair Works for Existing Sludge Ramp
- Excavation and Lateral Support (ELS) at CCSTW
- Construction of Sludge Digester Building
- Construction of MBR Treatment Facilities
- Erection of Tower Crane "XCMG XT335"
- Energization of Electrical System and Permit to Work Procedure

1.5. PURPOSE OF THE REPORT

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

2. AIR QUALITY

2.1. AIR QUALITY PARAMETERS

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

2.2. MONITORING CRITERIA

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

2.3. MONITORING REQUIREMENTS AND EQUIPMENT

- 2.3.1. 1-hour and 24-hour TSP levels were measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the United States Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 2.3.2. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - (i) 0.6 1.7 m³ per minute adjustable flow range;
 - (ii) equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - (iii) installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - (iv) capable of providing a minimum exposed area of 406 cm²;
 - (v) flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - (vi) equipped with a shelter to protect the filter and sampler;
 - (vii) incorporated with an electronic mass flow rate controller or other equivalent devices;
 - (viii) equipped with a flow recorder for continuous monitoring;
 - (ix) provided with a peaked roof inlet;
 - (x) incorporated with a manometer;
 - (xi) able to hold and seal the filter paper to the sampler housing at horizontal position;
 - (xii) easily changeable filter; and

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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-	SIBATA Digital Dust Indicator	2Y6550
hour 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 Equipment Used for Air	Quality Monitoring
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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.

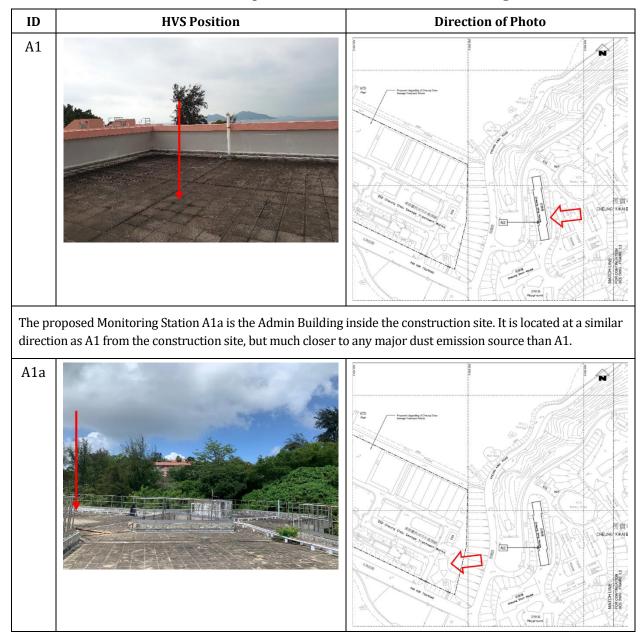
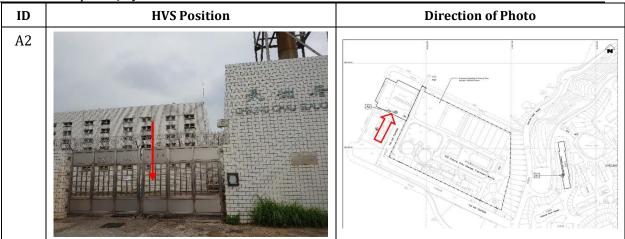


 Table 2.3 Photo of Proposed HVS Position at Dust Monitoring Stations

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



2.5. RESULTS AND ANALYSIS

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

Table 2.4	Summary of 1-hour TSP Monitoring Results
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Monitoring Location	Average(µg/m3)	Range(µg/m3)
A1a	57	47 - 67
A2a	51	45 - 63

Table 2.5Summary of 24-hour TSP Monitoring Results

Monitoring Location	Average(µg/m3)	Range(µg/m3)
A1a	36	20 - 70
A2a	50	32 - 85

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/m³
in μg/m ³	<u>For baseline level > 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 ³
µg/m³	For baseline level > $384 \mu g/m^3$ AL = LL	

Table 2.6 Action / Limit Levels for Air Quality

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

Table 2.7 Derived Action / Limit Levels for Air Quality

Parameters	Monitoring Location	Action Level µg/m ³	Limit Level µg/m ³
1-hour TSP Level	A1a	151	260
in µg/m ³	A2a	154	
24-hour TSP Level in	A1a	270	500
μg/m ³	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	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; and Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; and Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; and Amend working methods if appropriate. 	
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; and If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; and Supervise implementation of remedial measures 	 Confirm receipt of notification of failure in writing; Notify Contractor; and Ensure remedial measures properly implemented. 	 Submit proposals for remedial to IEC within 3 working days of notification; Implement the agreed proposals; and Amend proposal if appropriate. 	

3. Noise

3.1. MONITORING CRITERIA

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

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 _{eq 5min} , L _{eq 30min} , L ₁₀ & L ₉₀

3.2. MONITORING REQUIREMENTS AND EQUIPMENT

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

Equipment	Model	Serial Number
Sound Level Meter	SVANTEK 971	C119577
Acoustic Calibrator	Rion NC-75	35124528

Table 3.2 Equipment Used for Noise Monitoring

3.3. MONITORING LOCATION

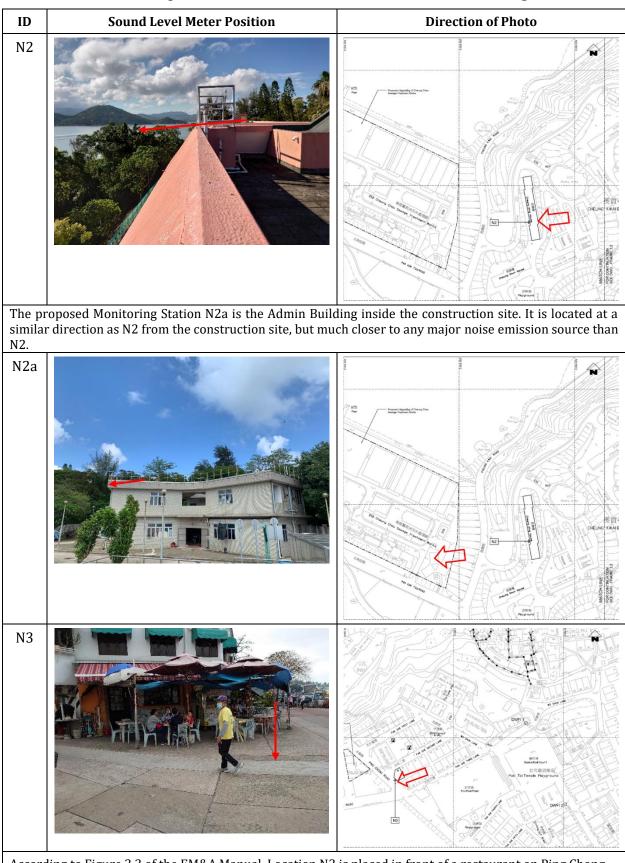
3.3.1. According to the environmental findings detailed in the EIA report, the designated locations for the construction noise monitoring are listed in **Table 3.3** and shown in Figure 3.1 – 3.8 of the EM&A Manual.

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

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



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

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ID	Sound Level Meter Position	Direction of Photo
N3a		en e

3.4. RESULTS AND ANALYSIS

3.4.1. The noise monitoring was carried out in July 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)	68.1	66.7 - 69.2
N3a	Daytime (0700-1900)	70.5	66.3 - 74.8

Table 3.5 Summary of Noise Monitoring Results

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

3.5. Environmental Quality Performance Limits

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

Table 3.6Action / Limit Levels for Construction Noise

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

3.6. EVENT AND ACTION PLAN

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

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

Table 3.7 Event and Action Plan for Construction Noise

4. WATER QUALITY

- 4.1. As suggested in Section 4.3 of the EM&A Manual, regular site audit was carried out to ensure that the recommended mitigation measures were properly implemented during the construction phase of upgrading of Cheung Chau STW and Pak She SPS. Site audit included site inspections and compliance audits were conducted in the reporting period.
- 4.2. Site inspection was carried out by the ET on 04, 11, 18 and 24 July 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 15 June 2023 for testing. The quality of the discharge compliance with the requirements of the discharge licence.

5. WASTE MANAGEMENT

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



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

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

(All quantities :	shall be rounded of	to 3 decimal place	s)							updated on:	10-Jul-2023		
		Actual Quanti	ties of Inert C&D Mater	ials Generated / Import	ed (in '000 kg)			Actual Quantities of	of Other C&D Materials	Wastes Generated		Marine	Dumping
Month	Total Quantities Generated	Broken Concrete (including rock for recycling into aggregates)	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported C&D Material	Metal	Paper/ Cardboard Packaging (f)	Plastic (g) (bottles/containers, plastic sheets/ lourns from package material)	Chemical Waste (h)	Others (i) (e.g. General Refuse etc.)	Type I - Open Sea Disposal	Type 2 - Confined Marine Disposal
	a+b+c+d+e+f+g+h+i)	(a)	(b)	(c)	(d)		(e) (in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in m ³)	(in m ³)
Jan-2023	6752.4100	0.0000	0.0000	0.0000	6745.3900	0.0000	0.0000	0.0000	0.0000	0.0000	7.0200	0.0000	0.0000
Feb-2023	2032.0500	0.0000	0.0000	0.0000	2028.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.0500	0.0000	0.0000
Mar-2023	4282.9700	0.0000	0.0000	0.0000	4276.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.9700	835.0000	1350.0000
Apr-2023	2152.4200	0.0000	0.0000	0.0000	2148.0000	0.0000	0.0000	0.0000	0.000	0.0000	4.4200	0.0000	0.0000
May-2023	1664.6600	0.0000	0.0000	0.0000	1657.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.6600	0.0000	0.0000
Jun-2023	1724.9700	0.0000	0.0000	0.0000	1717.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.9700	0.0000	0.0000
Half-year total	18609.4800	0.0000	0.0000	0.0000	18571.3900	0.0000	0.0000	0.0000	0.0000	0.0000	38.0900	835.0000	1350.0000
Jul-2023	3.6500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.6500	0.0000	0.0000
Aug-2023													
Sep-2023													
Oct-2023													
Nov-2023													
Dec-2023													
Yearly Total	18613.1300	0.0000	0.0000	0.0000	18571.3900	0.0000	0.0000	0.0000	0.0000	0.0000	41.7400	835.0000	1350.0000

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

		Actual Quanti	ties of Inert C&D Mater	ials Generated / Importe	ed (in '000 kg)			Actual Quantities of	f Other C&D Materials	Wastes Generated		Marine I	Dumping
Year	Total Quantities Generated	Broken Concrete (including rock for recycling into aggregates)	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported C&D Material	Metal	Paper/ Cardboard Packaging	Plastic (bottles/containers, plastic sheets/ foams from package material)	Chemical Waste	Others (e.g. General Refuse etc.)	Type 1 - Open Sea Disposal	Type 2 - Confined Marine Disposal
	[a+b+c+d+e+f+g+h+i)	(a)	(b)	(c)	(d)		(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in m ³)	(in m ³)
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2021	858.3600	0.0000	0.0000	0.0000	786.3000	0.0000	0.0000	0.0000	0.0000	0.0000	72.0600	0.0000	0.0000
2022	17081.7200	0.0000	0.0000	0.0000	17032.3700	0.0000	0.0000	0.0000	0.0000	0.0000	49.3500	525.0000	203.0000
2023	18613.1300	0.0000	0.0000	0.0000	18571.3900	0.0000	0.0000	0.0000	0.0000	0.0000	41.7400	835.0000	1350.0000
2024	0.0000												
2025	0.0000												
2026	0.0000												
Total	36553.2100	0.0000	0.0000	0.0000	36390.0600	0.0000	0.0000	0.0000	0.0000	0.0000	163.1500	1360.0000	1553.0000

Remark:

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

2 metric ton/m3 1.6 metric ton/m3 3) Density of Chemical Waste to be 0.88 metric ton/m3

Notes:

(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Sites.

Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
 The summary table shall be submitted to the Project Manager monthly together with the Waste Flow Table for

review and monitoring in accordance with the PS Clause 25.20(8)

6. LANDSCAPE & VISUAL

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

7. SITE INSPECTION AUDIT

- 7.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 04, 11, 18 and 24 July 2023. A joint site inspection with IEC was carried out on 24 July 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
04 July 2023	 Chemical should be placed on drip tray.(Near dewatering house) Sandbag should be placed surrounding the drainage 	 Chemical was removed. Drainage was cover. 	Contractor was reminded to check if the NRMM(s) label was missing.
11 July 2023	NIL	N/A	 Contractor was reminded to pay attention to the construction activities which might damage to the retained tree. Contractor was reminded to clean the haul road after daily construction activities.

Table 7.1 Site Observations

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Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 24th EM&A Report – July 2023

24 LM&A Report -	J=-J =		
Date	Environmental Observations	Follow-up Status	Reminders
18 July 2023	Chemical bottle should be placed on the drip tray.	Chemical bottle was removed.	Cement bags should be covered with the 3- side tarpaulin sheet
24 July 2023	NIL	N/A	Loose soil in haul road should be cleaned after daily work.

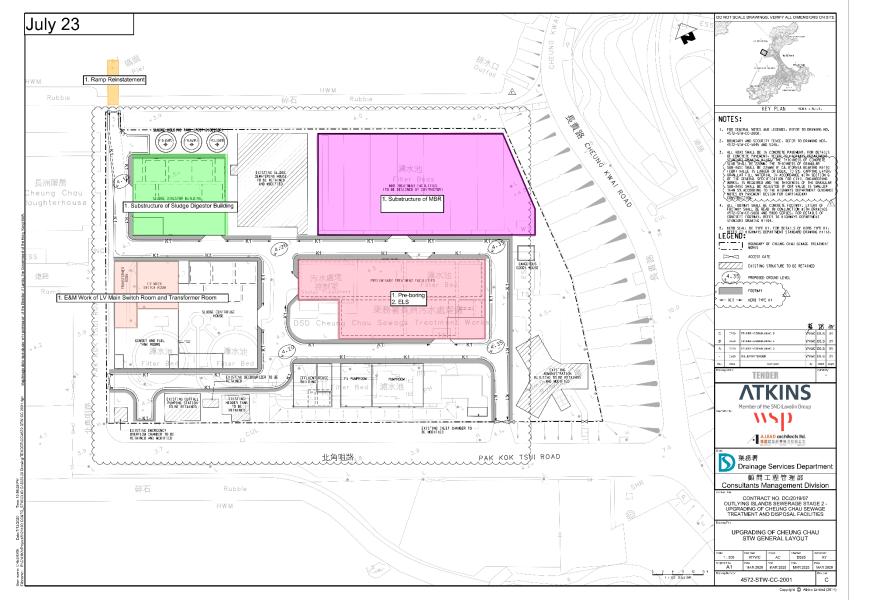
7.3. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided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

8. CONCLUSION

- 8.1. This is the 24th Monthly EM&A Report for the Project which summarizes the key findings of the programme during the reporting period from 1 July to 31 July 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.

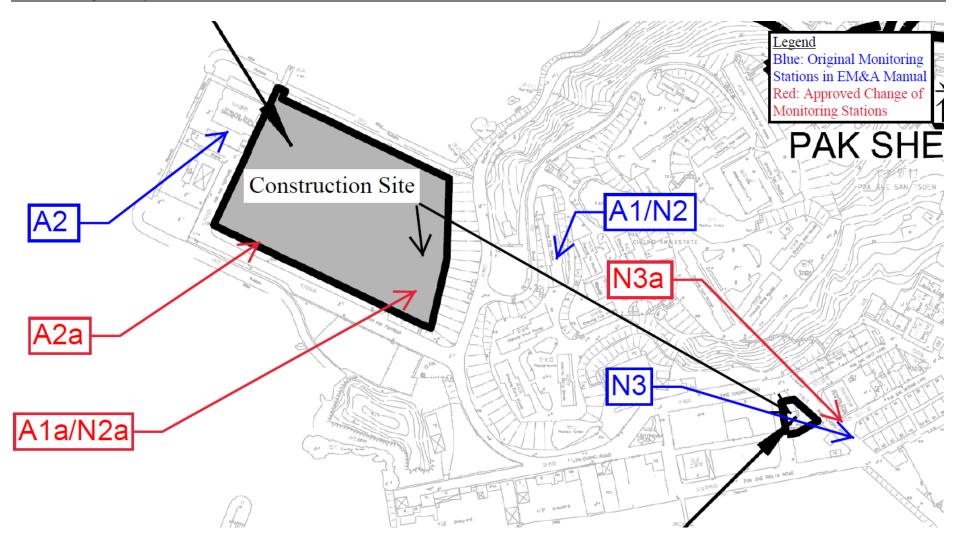
APPENDIX A Location Plan and Noise and Dust Monitoring Stations

Contract No. DC/2019/07 Environmental Monitoring Works for Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities 24th EM&A Report – July 2023



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APPENDIX B Construction Programme



D	Activity Name	Orl. Dur (d)	i) TRA (d)	Time Elapsed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rov. 20)	Early Finish (Rev. 20)	Total Amend Float Activiti	led Q1	2021 02 0	04 01	2022	2023 4 Q1 Q2 Q	1 04	2024 Q1 Q2 Q3 Q4 C	2025	2026 Q1 Q2 Q3
TLYING ISI	LANDS SEWERAGE STAGE2 - UPGRADING OF CHEUNG CHAU SEWAGE TREATME	NT AND D	DISPOS	36.4%		27-Nov-20		27-Nov-20 A	05-Feb-27	11-Jin-22	05-Feb-27	27-Nov-20	01-Jan-27	0			-						
Y DATES				100%		27-Nov-20		27-Nov-20 A	05-Feb-28	05-Feb-25	05-Feb-28		07-Jan-26	0			1						-
CD.1010	Contract Starting Date	0	0	100%	100%	27-N:v-21		27-Nov-20 A	05.5 1.50			27-Nov-20	47.1 33		274	10v-20 A							
D.1020	Contract Completion Date	0	0	0%. 100%	0%	27 Mar 22	49 Jun 21	27 May 20 A	05-Feb-26*		05-Feb-28	27 Nov 20	07-Jan-26	0 ^		<u> </u>							•*
0.1030	Portion A. B. C. D. E. Fand Works Area WA1	0	0	100%	100%	27-Nov-20	005001621	27-Nov-20 A	03-001-21-8			27-307-20 27-Nov-20	02-001-21		7.1	10-20 A							
4D 1030a	Vitarias Acos WA2	0	0	100%	100%	27-Nov-20		27-Nov-20 A				27-Nov-20				10-20 A							
D.1040	Works Area WA3	0	0	100%	100%	03-Jun-21		03-Jun-21 A				03-Jun-21				3 03	JI 1-21 A	1.1.1		1		1 1 1	
NNED CO	MPLETION DATES			84.35%		29-May-21		294May-21 A	05-Fob-26	13-May-25	05-Fob-28	29-May-21	16-Oct-25	0		-	-	+++	+	÷	-		-
D.1050	Plarmed Completion of Section 1 (Actual Commencement Date or 27 Nov 2020)	0	0	100%	100%		29-May-21		29-May-21 A				29-May-21			÷.,							
D.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	•		-111		IN L	1	1			
0.1070	Plannod Complotion of Section 3 (Actual Commoncement Date on 29 May 2021)	0	0	0%	0%				13-Way-25*		13-May-25		08-Apr-25	0 .						2		••	
0.1080	Planned Completion of Section 4 (Actual Commencement Date on 29 May 2021)	0	0	0%	0%				05-Feb-26*		05-Feb-28		16-Oct-25	0 ·				1				-0-	<u>•</u>
TRACT SE	ECTIONAL COMPLETION DATES			81.42%		28-May-21		29-May-21-A	05-Feb-26	13-May-25	05-Feb-28	28-Feb-22	07-Jan-26	0		10							-
0.1230	Contract Sectional Completion Date of Section 1 (Actual Commencement Date on 27 Nov 2020)	0	0	100%	100%		29-May-21		29-May-21 A				28-Feb-22			1	•	1.1.1.		-			
0.1250 0.1260	Contract Sectional Completion Date of Section 2 (Actual Commencement Date on 29 May 2021) Contract Sectional Completion Date of Section 3 (Actual Commencement Date on 29 May 2021)	0	0	100%	100%		24-Feb-23		24-Feb-23 A 13-Way-25*		13-May-25		05-Dec-22 08-Apr-25	0 .	-11				1				
0.1260 D.1270	Contract Sectional Completion Date of Section 3 (Actual Commencement Date on 28 May 2021) Contract Sectional Completion Date of Section 4 (Actual Commencement Date on 28 May 2021)	0	0	0%	0%				13-989-25* 05-Eeb-26*		13-May-25 05-Feb-28		03-Mpr-28 07-Jan-26	0 *								*	
GN SUBM	ISSION PERMIT		u	71.57%	0.3	27.819.422		27.May/20.4	30-04-26	13. Jun-24	05-Eeb-20	27-Nov-20	25-Sec-25	03		- 11				2		······································	•
010 30 50 50 0.1090	Prepare/submission of Temporary Distrate and Severate Management Plan to the Supervisor DSD/HK&land 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					: 11					
D.1100	Consultation/sproval of Temporary Drainage and Severage Management Plan by the Supervisor, DSD/HK&I and DSDA.DD	60	0	100%	100%	13-Mar-21	11-May-21	13-Mar-21 A	11-May-21 A			13-Mar-21	11-May-21		- 4			1-1- 1 -	1	1		111-1-1-	
0.1110	Application/approval of MDN & seeking Marine Dep/s approval for loading-unloading at passage area near WA2 and PSSPS	170	0	100%	100%	27-N:v-20	15-May-21	27-Nov-20 A	15-May-21 A			27-Nov-20	15-May-21										
1120	Application/approval of TTMS and CNP for night works by relevant authorities	170	0	100%	100%	27-Nov-20	15-May-21	27-Nov-20 A	15-May-21 A			27-Nov-20	15-May-21			.							
0.1130	Application/approval of permits or other statutory submissions by relevant author textparties	150	0	100%	100%	27-Nov-20	25-Apr-21	27-Nov-20 A	25-Apr-21 A			27-Nov-20	25-Apr-21		- H÷	- 11 - 1				8			
0.1140	B/M Execution Plan	32	0	100%	100%	27-Nov-20	26-Dec-20	27-Nov-20 A	26-Dec-20 A			27-409-20	26-Dec-20			- International		<u> </u>					
0.1150	Preparation and submission of BIMs CoBioAssel data delivorables	50	0	0%	0%			13-Jui-25	31-Aug-25		05-Feb-28	08-Jun-25	27-Jul-25	158		TTATTA			1				
1160	Preparation and submission of fully coordinated as built BIM model	25	0	0%	0%			12-Aug-25	05-Sep-25		05-Feb-28	08-Jul-25	01-Aug-25	153		10000		1 8					
0.1170	Preparation and submission of proposal of COBie/Asset information requirements	200	0	0%	0%			14-Ap<-25	30-Oct-25	21-Jul-25	05-Feb-28	10-Mar-25	25-Sep-25	98		14174						1 1 1	
0.1180	Preparation and submission of Draft Safety Plan	14	0	100%	100%	27-Nov-20	10-Dec-20	27-Nov-20 A	10-Dec-20 A			27-Nov-20	10-Dec-20			110.11							
D.1190	Ottain comments on Draft Safety Plan	14	0	100%	100%	11-Dec-20	24-Dec-20	11-Dec-20 A	24-Dec-20 A			11-Dec-20	24-Dec-20										
0.1200 0.1210	Preparation and Submission of Safety Plan	7	0	100%	100%	25-Dec-20	31-Dec-20 17-Mar-21	25-Dec-20 A 27-Nov-20 A	31-Dec-20 A 17-Mar-21 A			25-Dec-20 27-Nov-20	31-Dec-20 17-Mar-21							N. 0			
1220	Preparation and Submission of Thee Survey Report Obtain Discharge License by Client	- 11	0	100% D%	05	27-Nov-20	17-Mar-21	03-Jun-24		03-Jun-24	22 Jun 24	27-909-20 19-Feb-24	17-Mar-21 19-Esb-24	0	- 1					- W.			
TION 1	Colambischange Lonise by Clain	_	0	1005	0.8	27.Mex.22	18 May 21	27 May 20 A	18 Nov 31 A	00-001-24	33-JUII-24	27.Nov.20	16 Mon 21	0	- H ÷	2							
	PROPOSAL for ECI Stage 2			100%		27-Nov-20	18-Nov-21	27-Nov-20 A	18-Nov-21 A			27-Nov-20	18-Nov-21			3	-		X III				
	posel for Preliminary Treatment System at CCSTW			100%		03-Jun-21	18-Nov-21	03-Jun-21 A	18-Nov-21 A			02-Jun-21	16-Nov-21					1	•				
S1.1010	Preparation and approval of content page	10	0	100%	100%	03-Jun-21	12-Jun-21	83-Jun-21 A	12-Jun-21 A			03-Jun-21	12-Jun-21									1 1 1	
S1.1020	Preparation of cesign report inclucing design intention and list of cesign parameters / assumptions	25	0	100%	100%	13-Jun-21	07-Jul-21	13-Jun-21 A	07-Jul-21 A			13-Jun-21	07-Jul-21							1			
\$1.1030	Proparation of process celeulation and equipment sizing	25	0	100%	100%	08-Jul-21	01-Aug-21	06-Jul-21 A	01-Aug-21 A			08-Jul-21	8'-Aug-21			14- 1							
\$1.1040	Preparation of general layout and equipment location plan	20	0	100%	100%	02-Aug-21	21-Aug-21	02-Aug-21 A	21-Aug-21 A			02-Aug-21	21-Aug-21										
\$1.1050	Preparation of control philosophy	9	0	100%	100%	22-Aug-21	30-Aug-21	22-Aug-21 A	30-Aug-21 A			22-Aag-21	30-Aug-21									1.1.1	
\$1.1060	Preparation of remaining content of technical prosposal	19	0	100%	100%	31-Aug-21	18-Sep-21	31-Aug-21 A	18-Sep-21 A			31-Aag-21	18-Sep-21							1			
51.1070 51.1080	Dert Submission	0	0	100%	100%		18-Sep-21		18-Stp-21 A				18-Sep-21 15-Oct-21		- 11		2						
\$1.1080 \$1.1090	Deat Submission Comment and Approva Final Submission	2/	0	100%	100%	19-Sep-21 16-Oct-21	15-Oct-21 18-Nov-21	19-Sep-21 A 16-Oct-21 A	15-Oct-21 A 18-Nov-21 A			19-Sep-21 15-Ocl-21	10-06521 18-Nov-21		- 1								
	enal successor losal for MBR System and MBR Building at CCSTW	54	0	100%	100%	27-Nov-20	25-May-21	27-Nov-20 A	25-May-21 A			27-Nov-20	25-May-21			<u> </u>	P						
Submission	nosai foi mibit system and mbit ballang at CCSTV			100%		27-Nov-20	25 May-21	27-Nov-20 A	25-May-21 A			27-Nov-20	25 May 21			-							
\$11110	Presaration and approval of content page	10	0	100%	103%	27-Nov-20	06 Dec-20	27-Nov-20 A	06-Dec-20 A			27-Nov-20	06-Dec-20							5			
.\$1.1120	Preparation of cesign report inclucing cesign intention and list of cesign 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			1000							
\$1.1130	Preparation of process calculation and equipment sizing	25	0	100%	100%	01-Jan-21	25-Jan-21	01-Jan-21 A	25-Jan-21 A			01-Jan-21	25-Jan-21							1			
S1.1140	Preparation of general layout and equipment location plan	23	0	100%	100%	26-Jen-21	14-Feb-21	26-Jan-21 A	14-Feb-21 A			28-Jan-21	14-Feb-21					TT	E I	1		1 1 1	
S1.1150	Preparation of control philosophy	9	0	100%	100%	15-Feb-21	23-Feb-21	15-Feb-21 A	23-Feb-21 A			15-Feb-21	23-Feb-21		-								
S1.1160	Preparation of remaining contant of technical prosposal	19	0	100%	100%	07-Mar-21	25-Ma21	07-Mar-21 A	25-Mer-21 A			07-Mar-21	25-Mar-21		1								
S1.1170	Draft Submission	0	0	100%	100%		25-Ma21		25-Mar-21 A				25-Mar-21			1							
S1.1180	Drait Submission Commerit 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							2			
S1.1190 and Structu	Final Submission	34	0	100%	100%	22-Apr-21	25 May-21	22-Apr-21 A	25-May-21 A			22-Apt-21	25-May-21							V		1 1 1	
and Structu S1.1680	Presavation of Design Resort	54	0	100%	100%	23-Dec-20 23-Dec-20	29-Apr-21 14-Feb-21	23-Dec-20 A 23-Dec-20 A	23-Apr-21 A 14-Eeb-21 A			23-Dec-20 23-Dec-20	29-Apr-21 14-Feb-21										
51.1660 S1.1690	Preparation of Design Report	13	0	100%	100%	23-Deo-20 15-Feb-21	27-Feb-21	15-Feb-21 A	27-Feb-21 A			23-Dec-20 15-Feb-21	14-Peb-21 27-Feb-21		- E								
.\$1.1760	Submission of Draft Technical Proposal	0	0	100%	100%	28-Feb-21	28-Feb-21	28-Feb-21 A	26-Feb-21 A			28-Feb-21	25-Feb-21		- E								
S1.1710	Dia't Submission Comment and Approva	27	0	100%	100%	28-Feb-21	26-Mar-21	28-Feb-21 A	26-Mer-21 A			28-Feb-21	25-Mar-21		- IE			<u>++-</u>	· •			1-1-1	
\$1.1720	Final Submission (With ICE Certificate)	34	0	100%	107%	27-Mar-21	29-Apr-21	27-Mar-21 A	29-Apr-21 A			27-Mar-21	29-Apr-21							Y			
nical Prop	osal for Sludge Treatment System at CCSTW			100%		27-Nov-20	25-May-21	27-Nov-20 A	25-May-21 A			27-Nov-20	25-May-21			TT I							
1.1210	Presaration 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									1.1.1	
\$1.1220	Preparation of cestign report inclucing cestign intention and list of cestign parameters / assumptions	25	0	100%	100%	07-Dec-20	31-Dec-20	07-Dec-20 A	31-Dec-20 A			07-Dec-20	31-Dec-20					1.1.1		1		4	
\$1.1230	Preparation of process calculation and equipment sizing	25	0	100%	100%	01-Jan-21	25-Jan-21	01-Jan-21 A	25-Jan-21 A			01-Jan-21	25-Jan-21										
\$1.1240	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			2E-Jan-21	14-Feb-21		_#								
S1.1250	Preparation of control philosophy	9	0	100%	100%	15-Feb-21	23-Feb-21	15-Feb-21 A	23-Feb-21 A			15-Feb-21	23-Feb-21		-17								
\$1.1250	Preparation of remaining content of technical prosposial	19	0	100%	100%	07-Mar-21	25-Ma21	07-Mar-21 A	25-Mer-21 A			07-Mar-21	25-Mar-21		11 5	7461		<u>i i ü</u>		1			
	mary Baseline	DC/204	10/07 0			SEWED	ACE STA	GE2 - UPG								0641	EACH	TIES	Dat	ıte	Revision	Chec.	Арр
- D4	many seasoned	06/201	1907-01	ULTING	GLANDS										10154	UJAL	FAUILI	HE0	30-Nov	-22	Rev. 20	JL	CL
	tual Work						REVISEI) PROGR		REV. 24	2 (28 Fe	pruary 2	(023)						31-Doc	222	Rev 21	Lu	
Ad	tual Work emaining Work						REVISEI	JPROGR		1 of 13)	2 (28 Fe	bruary 2	(023)						31-Dec		Rev. 21	JL	CL
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tivity ID	Activity Name	Orl. Dur (d)	TRA (d)	Time Expeed %	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish Early Start (Rev. 20)	Early Finish (Rev. 20)	Total Amended Float Activities	Q1 04	021	2022	04 01	2023	20 Q1 02	Q3 04	2025	2026 Q4 Q1 Q2 Q3	2027
DC.\$1.1270	Dra't Submission	0	0	100%	100%		25-Mar-21		25-Mar-21 A			25-Mar-21		131	ПП								
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		1									
DC.S1.1290	Final Submission osal for Electrical Works at CCSTW	34	9	100%	100%	22-Apr-21 27-New-22	25-May-21	22-Apr-21 A 27-Mon-20 A	25-May-21 A		22-Apr-21 27-Nov-20	25-May-21 25-May-21		-							1.1.1		
Technical Prop DC 81 1810	Precaration and approval of content page	12	9	100%	107%	27-New-22	20+May-21 06-Dec-20	27-Nov-20 A	20-May-21 A 06-Dep-20 A		27-909-20	20-Mily-21 05-Dec-20											
DC.S1.1320	Preparation of cestion report inclucing design intention and list of cestion parameters / assumptions	25	0	100%	100%	07-Dec-20	31-Dec-20	07-Dec-20 A	31-Dec-20 A		07-Dec-20	31-Dec-20											
DC.\$1.1330	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						1					
DC.\$1.1340	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									1 1 1		
DC.81.1350	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									111		
DC.81.1360 DC.81.1870	Preparation of remaining content of technical prosposial Dest Submission	18	0	100%	100%	07-Mar-21	25-Ma-21 25-Ma-21	07-Mar-21 A	25-Mar-21 A 25-Mar-21 A		07-Mar-21	25-Mar-21 25-Mar-21		17.									
DC.S1.1370 DC.S1.1380	Dert Submission Dert Submission Comment and Approva	27	0	100%	100%	26-Mar-21	20-Mar-21 21-Apr-21	26-Mar-21 A	20-MBP-21 A		26-Mar-21	25-Mar-21 21-Apr-21		13			-				da d		
DC.S1.1390	Final Submission	34	0	100%	100%	22-Apr-21	25-May-21	22-Apr-21 A	25-May-21 A		22-Apr-21	25-May-21						1.					
Technical Prop	osal for Temp. Works Design for the 1st 3months of ECI S2			100%		16-Jan-21	23-May-21	16-Jan-21 A	23-May-21 A		16-Jan-21	23-May-21											
DC.S1.1410a	Preparation and approval of Technical Prosposal for ELS Design of Sludge Digretor Bulding	67	0	100%	100%	18-Jan-21	23-Mar-21	16-Jan-21 A	23-Mar-21 A		18-Jan-21	23-Mar-21						1					
DC.S1.1410b	Preparation and approval of Technical Proposal for ELS Design of LV Main Switch Rm, Transformer Rm & WAS Storage Tanks	67	0	100%	100%	18-Jan-21	23-Mar-21	16-Jan-21 A	23-Mar-21 A		18-Jan-21	23-Mar-21											
DC.S1.1410c DC.S1.1410c	Preparation and approval of Technical Proposal for ELS Design of VBR Treatment Facilities	67	0	100%	100%	18-Jan-21	23-Ma+21 23-Ma+21	16-Jan-21 A	23-Mar-21 A 23-Mar-21 A		18-Jan-21	23-Mar-21 23-Mar-21											
DC.S1.14106 DC.S1.1420	Preparation and approval of Technical Proposal for ELS of 750mm clameter emergency bypass diversion at PSSPS Dirat Submission	0	0	100%	100%	18-Jan-21	23-Man-21 23-Man-21	16-Jan-21 A	23-Mar-21 A 23-Mar-21 A		18-Jan-21	23-Mar-21 23-Mar-21											
DC.S1.1420	Dia't Submission Dia't Submission Comment and Approve	27	0	100%	100%	24-Mar-21	19-Apr-21	24-Mar-21 A	19-Apr-21 A		24-Mar-21	19-Apr-21						1.1			1.1.1		
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-Mey-21											
Technical Prop	osal 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-Mar-21 A		27-Nov-20	25-Mar-21			1111			1-1-		1-1			
DC.S1.1480	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		27-909-20	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		11									
DC.S1.1480	Preparation and approval of content page Descention of application promotion for Civil D016	48	0	100%	100%	28-Jan-21	12-Mar-21	26-Jan-21 A	12-Mar-21 A		28-Jan-21	12-Mar-21											
DC.S1.1430 DC.S1.1500	Preparation of besign memorandum for CVI DMA Preparation of besign memorandum for E&M DMA	30	0	100%	100%	13-Mar-21 13-Mar-21	11-Apr-21 11-Apr-21	13-Mar-21 A 13-Mar-21 A	11-Apr-21 A 11-Apr-21 A		13-Mar-21 13-Mar-21	11-Apr-21 11-Apr-21			1111	11					4-4-4		+-+-
DC.S1.1530	Preparation of remaining content of technical prosposal	19	0	100%	100%	12-Apr-21	30-Apr-21	12-Apr-21 A	30-Apr-21 A		12-Apr-21	30-Apr-21		- 4									
DC.S1.1540	Drat Submission	0	0	100%	100%		30-Apr-21		30-Apr-21 A			30-Apr-21											
DC.S1.1550	Drait Submission Commerci and Approva	24	g	100%	107%	01-May-21	24-May-21	01-May-21 A	24-Nay-21 A		01-May-21	24-May-21											
DC.S1.1560	Final Submission	38	g	100%	107%	25-May-21	29-Jun-21	25-May-21 A	29-Jun-21 A		25-May-21	29-Jun-21											
SITE PREPAR	ATION WORKS			100%		27-Nov-20	15-May-21	27-Nov-20 A	15-May-21 A		27-Nov-20	15-May-21											
DC S1.1580a	Design of HIC Co-Office	15	0	100%	100%	08-Mar-21	23-Mar-21	06-Mar-21 A	23-Mar-21 A		06-Mar-21	23-Mar-21						1					
DC S1.15806 DC S1.1590	Fabrication of MC Co-O lice	44 184	0	100%	100%	25-Jan-21 27-Nov-20	23-Mar-21	28-Jan-21 A 27-Nov-20 A	23-Mar-21 A 15-May-21 A		28-Jan-21	23-Mar-21 15-May-21											
DC S1.1590 DC S1.1800	Site clearance, set up site hoarding, provision of temporary fence, and erection of project signopand Situatural Condition Survey	34	6	100%	100%	27-Nov-25 10-Apr-21	15 May-21 15 May-21	27-Nov-20 A 10-Apr-21 A	15-May-21 A 15-May-21 A		27-Nov-20 10-Apr-21	15-May-21 15-May-21											
DC S1.1630	Ground Investigation (45 nos, 3 rig. 2team) with relevant subletting and site setup	82	6	100%	100%	20-Jan-21	10-May-21	20-Jan-21 A	10-May-21 A		20-Jan-21	10-May-21		+									
DC S1.1640	Setup of moritoring 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									111		
DC S1.1660	Initial site survey record	5£	4	100%	100%	27-Nov-20	25-Jan-21	27-Nov-20 A	25-Jan-21 A		27-Nov-20	25-Jan-21						1					
DC S1.1670	Conduct/UU detection and issuance of UU detection report	28	2	100%	100%	21-Dec-20	19-Jan-21	21-Dec-20 A	19-Jan-21 A		21-Dec-20	19-Jan-21		-									
DC S1.1871#	Installation of Piecometer PS1 to PS3	48	0	100%	100%	31-Mar-21	15-May-21	31-Mar-21 A	15-May-21 A		31-Mar-21	15-May-21			5111								
Raw Sewerage DC.S1.1610a	Sampling Survey Conduct hilial Reconnaissence Visit	13	1	100%	100%	27-Nov-20 27-Nov-20	06-Feb-21 10-Dec-20	27-Nov-20 A 27-Nov-20 A	06-Feb-21 A 10-Dec-20 A		27-Nov-20 27-Nov-20	08-Feb-21 10-Dec-20											
DC.S1.1610b	Subrit Report of Initial Report assence Visit	5	0	100%	100%	11-DEC-20	15-Dec-20	11-Dec-20 A	15-Dec-20 A		11-Dec-20	15-Dec-20											
DC.S1.1610c	Approval of Report of Initial Reconnaissance Visit	7	0	100%	100%	16-Dec-20	22-Dec-20	18-Dec-20 A	22-Dec-20 A		16-Dec-20	22-Dec-20											
DC.S1.16106	Preparation work for Raw Sewage Sampling	7	0	100%	100%	23-DEO-23	29-Dec-20	23-Dec-20 A	29-Dec-20 A		23-Dec-20	29-Dec-20						1			1.1.1		
DC.S1.1610e	Conduct Raw Sewage Sampling	14	0	100%	100%	30-DEO-22	12-Jan-21	30-Dec-20 A	12-Jan-21 A		30-Dec-20	12-Jan-21											
DC.S1.1610F	Submission of Survey Report	2'	0	100%	100%	13-Jan-21	02-Feb-21	13-Jan-21 A	02-Feb-21 A		12-Jan-21	02-Feb-21											
DC.S1.1610g DC.S1.1610b	Comment and Approval of Survey Report Submission of Final Survey Report	2	0	100%	100%	03-Feb-21 05-Feb-21	04-Feb-21 06-Feb-21	03-Feb-21 A 05-Feb-21 A	04-Feb-21 A 06-Feb-21 A		03-Feb-21 05-Feb-21	04-Feb-21 08-Feb-21		0.1									
	e Monitoring System	2	0	100%	100.4	27-Nov-20	10-Jan-21	27-Nov-20 A	10-Jan-21 A		27-Nov-20	10-Jan-21		+									
DC.S1.1620a	Carry out site investigation and submit Reconnaisance Survery Report	42	3	100%	100%	27-Nov-20	10-Jan-21	27-Nov-20 A	10-Jan-21 A		27-Nov-20	10-Jan-21					9-1	1			1		
COMPLETION	OF SECTION 1			0%		28-May-21	29-May-21	29-May-21-A	29-May-21 A		28-May-21	29-Msy-21											
DC.S1.1850	Completion of Section 1 (Working Days)	0	0	100%	100%		29-May-21		29-May-21 A			29-May-21									1.1.1		
SECTION 2 - U	ograding the existing Pak She Sewage Pumping Station (PSSPS)			96.28%		27-Nov-20		27-Nov-20 A	31-Har-23	28-Feb-23	31-Mar-23 27-Nov-20	24-Mar-23	0										
PROCUREME	NT, FABRICATION and DELIVERY of MAJOR E&M EQUIPMENT			88.09%		19-Mar-21		19-Mar-21 A	15-Har-23	28-Feb-23	15-Mar-23 27-Nov-20	28-Jan-23	0					1			Jalah		
DC S2.1005s	Tendering of Subcontrator	45	0	100%	107%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-Aug-21 A		12-Jul-21	25-Aug-21											
DC SZ 10055 DC SZ 1005c	Equipment Submission and Approval (Other equipment)	141 40	0	100%	100%	28-Aug-21 31-Aug-21	14-Jan-22 09-Oct-21	26-Aug-21 A	14-Jan-22 A 09-Oci-21 A		26-Aug-21	22-Jan-22 04-Oct-21						1 1					
DC S2 10050	Equipment Submission and Approval (Screw Pumps) Equipment Submission and Approval (Penstocks)	189	0	100%	100%	31-AUg-21	08-Mar-22	31-Aug-21 A 31-Aug-21 A	08-Mar-22 A		26-Aug-21 27-Noy-20	31-Mar-21											
DC S21005e	Equipment Submission and Approval (DOU)	131	0	100%	100%	31-Oct-21	11-Mar-22	31-0ct-21 A	11-Mar-22 A		27-Nov-20	1'-Mar-21		H.U				1					
DC S2.1005f	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		+1.1							1 1 1 1		
DC S2.1005g	Equipment Submission and Approval (Flow meter)	172	Û	100%	100%	03-Deo-21	24-May-22	03-Dec-21 A	24-May-22 A		27-Nov-20	17-Msy-21		╟╫╢			L.L.						
DC S2.1005h	Equipment Submission and Approval (FRP Cover of Screw Pump)	100	0	100%	100%	29-Feb-22	08-Jun-22	28-Feb-22 A	08-Jun-22 A		27-%07-20	06-Mar-21		┢╋╋									
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-Fec-22	13-Apr-22											
DC SZ 1010s DC SZ 1010a10	Procurement (Oher eculpment) Procurement (Scieve Purros)	5	0	100%	100%	08-Jan-22 24-Sec-21	14-Jan-22 24-Scp-21	08-Jan-22 A 24-Sep-21 A	14-Jan-22 A 24-Sco-21 A		08-Jan-22 05-Cci-21	14-Jan-22 11-Ocl-21			ΗUIT								
DC S2.1010e10 DC S2.1010e20	Procurement (Solow Pumps) Procurement (Pensitocis)	1	0	100%	100%	24-Sep-21 03-Jan-22	24-Sep-21 04-Jan-22	24-Sep-21 A 03-Jan-22 A	24-Sep-21 A 04-Jan-22 A		05-DCF21 17-Mar-21	11-0cl-21 18-Mar-21											
DC S2.1010s30	Procurement (DOU)	2	0	100%	100%	20-Mar-22	21-Ma-22		21-Mar-22 A		20-14a-22	2'-Mar-22		- 01									
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- Pri	nary Baseline	DC/2014	0/07 01			SEWED	AGE STA	GE2 - UPC			NG CHAU SEWA							Date		Revision	n Che	ec Appr	roved
	ual Work	2012013													- I AU		3	0-Nov-22	Rev.	20	JL	CL	
							REVISE	D PROGR			2 (28 February 3	2023)					3	1-Dec-22	Rev.	21	JL	CL	
	maining Work								(Page	2 of 13)								8-Feb-23	Rev.		JL	CL	
Cri	tical Remaining Work																- I		1				
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ivity ID	Activity Name	Ori. Dur (d)	TRA (d)	Time Elapsed N	Actual Workdone %	Actual Start	Actual Finish	Early Start	Early Finish	Lose Start	Late Finish	Early Start (Rov. 20)	Early Finish Total Amendee (Rev. 20) Float Activities	01	2021	04 0	2022	2023	01 0	024	2025	0 04 01	2026
DC S2.1010s40	Procurement (VSD)	1	0	100%	100%	28-Jan-22	26-Jan-22	26-Jan-22 A	26-Jan-22 A			23-Jan-21	23-Jan-21	1									
DC S2.1010850	Procurement (Rowneter)	126	0	100%	100%	28-Jan-22	27-Jan-22	26-Jan-22 A	27-Jan-22 A			28-Jan-22	26-Jan-22					(
DC S2.1010#90	Procurement (FRP Cover of Screw Pump)	1	0	100%	100%	30-May-22	30-May-22	30-May-22 A	30-May-22 A			30-May-22	30-May-22				÷						
DC S2.1010s70 DC S2.1010b	Procurement (LVSB)	1 253	0	100%	100%	05-Mar-22 28-Feb-22	05-Ma-22 07-Nov-22	05-Mar-22 A 28-Feb-22 A	05-Mar-22 A 07-Nov-22 A			05-Mar-22 28-Feb-22	05-Mar-22 07-Nov-22	-111			4 ((1	
DC S2.10106 DC S2.1010610	Fabrication (Other equipment) Fabrication (Screw Parnes)	253	0	100%	100%	28-Heb-22 12-Oct-21	29-Aur-22	26-Heb-22 A 12-Oct-21 A	29-Apt-22 A			28-FB0-22 12-Ocl-21	07-Nov-22 28-Apr-22	-11								1	
DC S2.1010620	Fabrication (Forstocka)	85	0	100%	100%	19-Mar-21	11-Jun-21	19-Mar-21 A	11-Jun-21 A			19-Mar-21	1'-Jun-21	- 4									
DC 82.1010630	Fabrication (DOU)	2'4	0	100%	100%	30-May-22	29 Dec-22	30 May 22 A	29-Dec-22 A			30-May-22	29 Dec 22				-						
DC S2.1010640	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										
DC S2.1010550	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				+==						
DC S2.1010b80	Esbrication (FRP Cover of Screw Pump)	277	0	98.58%	\$8.45%	31-May-22		31-May-22 A		28-Feb-23	03-Mar-23	31-May-22	18-Dec-22 0 *				┝╇╋╋	<					
DC S2.1010570	Fabrication (LV2B)	90	0	100%	100%	10-May-22	07-Aug-22	10-May-22 A	07-ALG-22 A			10-May-22	07-Aug-22					<u>N</u>			1.1		
DC S2.1010680	Fabrication (FLC)	142	0	100%	100%	10-May-22	28-Sep-22	10-May-22 A	28-Sep-22 A			10-May-22	28-Sep-22				-						
DC S2 1010:	Delivery (Other equipment)	30	0	100%	100%	08-Nov-22	07-Dec-22	08-Nov-22 A	07-Dec-22 A			08-Nov-22	07-Dec-22	_									
DC 82.1010±10 DC 82.1010±20	Delivery (Sote Funp) Delivery (Penstocks)	94	0	100%	100%	30-Apr-22 12-Jun-22	01-Aug-22 18-Jul-22	30-Apr-22 A 12-Jun-22 A	01-Aug-22 A 18-Jul-22 A			30-Apr-22 12-Jun-22	0'-Aug-22 18-Jul-22	-									
DC S2.1010:30	Delirery (COU)	39	0	100%	100%	30-Dec-22	06-Feb-23	30-Dec-22.A	06-Feb-23 A			30-Dec-22	28-Jan-23	-									
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					F - - - - -			and the state		
DC S2.1010:50	Beitrery (Flowmeter)	2'	0	100%	100%	30-Sep-22	20-Oct-22	30-Sep-22 A	20-0c>22 A			30-Sep-22	20-Oct-22				-4						
DC S2.1010:50	Delivery (FRP Cover of Sorew Pump)	12	0	DN-	0%			04-Mar-23	15-Har-23	D4-Mar-23	15-b/ar-23	19-Dec-22	24-Jan-23 0 *				L						
DC S2.1010:70	Delitery (LVSB)	29	0	100%	100%	08-Aug-22	05-Sep-22	06-Aug-22 A	05-Sep-22 A			08-Aug-22	05-Sep-22					N				1	
DC S2 1010:50	Delitery (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					.					
	RUCTURAL WORKS			100%		27-Nov-20	13-Scp-22	27-Nov-20 A	13-Sep-22 A			27-Nov-20	13-Sep-22										
	emergency by-pass			100%	4.0.000	27-Nov-20	13-Sep-22	27-Nov-20 A	13-Sep-22 A			27-Nov-20	12-Sep-22									1	
DC.S2.1020 DC.S2.1021	Expose and install protect/support system for existing underground utilities and services (HGC, CLP,etc)	28	2	100%	100%	23-Jun-21 27-Nov-20	03-Aug-21 03-Jan-21	29-Jun-21 A 27-Nov-20 A	03-Aug-21 A 03-Jan-21 A			29-Jun-21 27-Nov-20	02-Aug-21 03-Jan-21										
DC.S2.1021 DC.S2.1022	Delivery of percast our crete pipe and manhole fittings Samoles testing for percast concrete pipe and manhole fittings	35	0	100%	100%	27-Nov-20 04-Jan-21	03-Jan-21 02-Feb-21	27-Nov-20 A 04-Jan-21 A	03-Jan-21 A 02-Feb-21 A			27-N09-20 04-Jan-21	03-Jan-21 02-Feb-21	ļ.								1	
DC.S2.1022 DC.S2.1030	Samples esting or percast concrete pipe and mannue librigs Installation of ELS for TTA Stage 1 and construction of 750 dia, emergency bypass and 3 mannoles (BPWH01,02804)	80	10	100%	100%	04-Jan-21 04-Aug-21	19-Nov-21	04-381-21 A	19-Nov-21 A			04-Jan-21 04-Aug-21	19-Nov-21	-[[[]]								1	
DC.S2.1031	Backfilling, Removal of Temporary Supports and Reinstalement of Footpath at Ping Chong Road	29	3	100%	100%	20-Nov-21	21-Dec-21	20-Nov-21 A	21-Dec-21 A			20-Nov-21	21-Dep-21			F4							
DC.S2.1040	Implementation of TTA Stage 2 to enclose works area of manifole BPMH03	6	0	100%	100%	20-Nov-21	26-Nov-21	20-Nov-21 A	26-Nov-21 A			20-Nov-21	26-Nov-21			<u>+</u>							
DC.S2.1050	Installation of ELS and construction of 750 dial emergency bypasis for connection to manhole BPMH03	40	7	100%	100%	27-Nov-21	24-Jan-22	27-Nov-21 A	24-Jan-22 A			27-Nov-21	24-Jan-22			-							
DC.S2.1070	Backfilling, Removal of Temporary Supports and reinstatement of existing road at Ping Chorg Road	28	2	100%	100%	25-Jan-22	03-Ma-22	25-Jan-22 A	03-Mar-22 A			25-Jan-22	02-Mar-22			-						1	
DC.S2.1080	Pipe CCTV survey, application manhole protective coat, capping and sealing of existing bypass and final connection works	21	1	100%	100%	05-May-22	31 May-22	05-May-22 A	31-May-22 A			05-May-22	31-May-22				+						
DC.S2.1150	Submission of as-constructed records after completion of permanen, reinstatement of the lootpath	14	0	100%	100%	04-Mar-22	13-Scp-22	04-Mar-22 A	13-Sep-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 20-Oct-21	13-Sep-22	04-Mar-22 A 20-Oct-21 A	13-Stp-22 A	20 Ext. 02	31-Nor-23	04-Mar-22	13-Sep-22 24-Mar 23 0			Ш						1	
E&M WORKS DC S2 1085a	Descention and Relation of TTE Descent for Beau Deduce over Works	154	0	100%	100%	23-06021	22-Aar-22	20-06021 A	31-Har-23 22-Apr-22 A	20-160-23	31-668-23	20-0cl-21 20-0cl-21	24-040-23 0 17-Jan-22										
DC S2.10858	Perparation and Submission of TTA Drawings for Pump Replacement Works Obtain Approval of TTA Drawing from relevant parties	30	0	100%	100%	23-06-21 29-Apr-22	22-May-22 28-May-22	29-06021 A	28-May-22 A			29-Apr-22	28-May-22								-		
DC S2.1085c	Implementation of TTA for Pump Replacement Works	11	0	100%	100%	24-Jun-22	04-Jul-22	24-Jan-22 A	04-Jul-22 A			24-Jun-22	24-Jun-22	-1111			4	l î					
DC S2.1090s	Removal of Existing Panatock No.3 and Sonew 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										
DC S2.10905	Installation of New Screw Pump No.3	2'	0	100%	100%	18-Aug-22	12-Sep-22	18-Aug-22 A	12-Sep-22 A			18-Aug-22	12-Sep-22				· · · · · · · · · · · · · · · · · · ·						
DC S2.1090:	Screeding for the screw pump frough for Screw Pump No.2	12	0	100%	100%	13-Sep-22	27-Sep-22	13-Sep-22 A	27-Stp-22 A			13-Stp-22	2'-Sep-22										
DC SZ 10905	Perparation Works and Carry out Dry Test and Well Test for Scree Pump No.3	13	0	100%	100%	09-Nov-22	21-Nov-22	09-Nov-22 A	21-Nov-22 A			09-Nov-22	21-Nov-22										
DC S2 1090±10	Installation of Non-Pensiock No.3 and Sile Acceptance Teel	54	0	100%	100%	13-Sep-22	16-Nov-22	13-Sep-22 A	16-Nov-22 A			13-Scp-22	16-Nov-22										
DC S2.1090±20 DC S2.1091a	Weterprocing Coaling at Scree Pump Trough No.3	34	0	100%	100%	30-Sep-22 22-Nov-22	10-Nov-22 03-Dec-22	30-Sep-22 A 22-Nov-22 A	10-Nov-22 A 03-Dec-22 A			30-Scp-22 22-Nov-22	10-Nov-22 10-Dec-22										
DC 52.10918	Removal of Existing Penalock No. 2 and Screw Pump No. 2 and Civil Works for New Installation Installation of New Screw Pump No.2	6	0	100%	100%	05-Dro-22	13-Dec-22	05-Dec-22 A	13-Dec-22 A			12-Dec-22	0%-Jan-23	-									
DC S2.10915	Screeding for the screw pump tough for Screw Pump No.2	18	0	100%	100%	14-Dec-22	06-Jan-23	14-Dep-22 A	06-Jan-23 A			10-Jan-23	2*-Jan-23					[]	-				
DC 52.10915	Perparation Works and Carry out Dry Test and Wet Test for Some Pump No.2	6	0	100%	100%	15-Jan-23	20-Jan-23	15-Jan-23 A	20-Jan-23 A			04-Feb-23	14-Feb-23	-111				L					
DC S2.1091510	Installation of New Perstock No.2 and Size Acceptance Test	15	0	100%	100%	12-Dec-22	31-Dec-22	12-Dep-22 A	31-Dec-22 A			09-Dec-22	24-Dec-22									1	
DC SZ 1091±20	Waterproofing Coating at Screw Fump Trough No.2	7	0	100%	100%	07-Jan-23	14-Jan-23	07-Jan-23 A	14-Jan-23 A			25-Jan-23	02-Feb-23									1	
DC SZ 1092#	Removal of Existing Panatock No.1 and Screw Pump No.1 and Civil Works for New Installation	10	0	100%	100%	28-Nov-22	20-Dec-22	26-Nov-22 A	20-Dec-22 A			28-Nov-22	20-Dec-22									1	
DC SZ 10926	Installation of Non Scrow Pump No.1	9	0	100%	100%	10-Dzo-22	21-Dec-22	10-Dec-22 A	21-Dec-22 A			21-Dec-22	18-Jan-23 *			ПП						1	
DC 82.1092c	Screeding for the screw pump hough for Screw Pump No.1	15	0	100%	100%	28-Dro-22	14-Jan-23	26-Dec-22 A	14-Jan-23 A			19-Jan-23	02-Feb-23										
DC 82.10925 DC 82.1092510	Perparation Works and Comyout Dry Test and Wet Test for Screw Pump No.1	/	0	100%	100%	01-Feb-23	06-Feb-23	01-Feb-23 A	06-Feb-23 A			12-Feb-23	22-Feb-23 *	-				[1]				1	
DC 52.1092510 DC 52.1092520	Installation of New Persock No.1 and She Acceptance Test Waterproofing Coaling at Screw Purna Trough No.1	28	0	100%	100%	13-Dec-22 81-Jan-23	17-Jan-23 02-Feb-23	13-Dec-22 A 31-Jan-23 A	17-Jan-23 A 02-Feb-23 A			05-Jan-23 03-Feb-23	21-Jan-23 11-Seb-23	-									
DC S2.1092620 DC S2.1109a	Vieterprocting Loating at Screek Pump Liough No.1 Removal of Existing Main Inite Penatook and Chil Works for New Installation	3	0	100%	100%	31-Jan-23 27-Dac-22	02+eo-23 16-Jan-23	31-Jan-23 A 27-Dec-22 A	02-Feb-23 A 16-Jan-23 A			03-Fe0-23 25-Jan-23	1'-Heb-23 08-Feb-23					[]	+++				
DC 32.11008	Replacement of Main Inlat Penalock with Sile Acceptance Test & T & C	19	0	100%	100%	07-Feb-23	28-Feb-23	07-Feb-23 A	28-Fab-23 A			09-Feb-23	22-Feb-23	-1111								1	
DC S2.1120	Replacement of the discharge EM flowmeier and modification of essociated pipework	3	0	100%	100%	14-Jan-23	17-Jan-23	14-Jan-23 A	17-Jan-23 A			30-Nov-22	24-Dec-22	- 11				4.1				1	
DC SZ 1130	Installation of Deodorization Unit 6 and associated FRP ductowork	17	2	100%	107%	07-Feb-23	28-Feb-23	07-Feb-23 A	28-Fab-23 A			3C-Jan-23	2'-Feb-23					H .					
DC 82.1140	Replacement of Existing Portable Emergency Generator Set by Mobile Emergency Generator Set	57	2	100%	100%	29-Oct-22	10 Jan-23	29-0ct-22 A	10-Jan-23 A			29-Oct-22	10-Jan-23					4					
DC 82.1141	Replacement of Existing LV Switchboard by New LV Switchboard, PLC Panel and UPS	110	1	100%	100%	01-Aug-22	12-Dec-22	01-Aug-22 A	12-Dec-22 A			01-Aag-22	12-Dec-22									1	
DC 82.1142	Installation of Screw Pure Scarers and Variable Speed Drivers	110	1	100%	100%	13-Jul-22	22-Nov-22	13-Jul-22 A	22-Nov-22 A			13-Jul-22	22-Nov-22					4				1	
DC 82.1148	Replacement of Existing Wall Mounted MCB Boards and Miscellaneous Panel in the Screw Pump House	63	1	100%	100%	01-Aug-22	17-Oct-22	01-Aug-22 A	17-Oct-22 A			01-Aag-22	17-Oct-22	_ ()			: 2 년 - 1 년 -					1	
DC S2.1144	Diversion & Modification of Electrical System for Existing Equipment	35	2	100%	100%	18-Oct-22	03-Dec-22	18-Oct-22 A	03-Dec-22 A			15-Oct-22	03-Dec-22	- []									
DC S2 1145	Cable Installation for Pensitock. Scree Pump. DOU Installation of FRP cover of Screev Pump No.1	118	2	100% 42.6F%	100%	01-Aug-22 03-Eeb-23	22-Dec-22	01-Aug-22 A 03-E+b-23 A	22-Dec-22 A 31-Wer-23	28-Feb-23	11 May 22	01-Aug-22 13-Feb-23	22-Dec-22 15-Fab-23 0					14	+-++		an <mark>dia di</mark> a	÷	
DC S2 1146	Installation of HRP cover of Screw Party No.1 Installation of FRP cover of Screw Party No.2	49	0	42.85%	0%	16-Jan-23	-	03-Heb-23 A 16-Jan-23 A		28-Feb-23 28-Feb-23		13-F60-23 04-F60-23	16-Heb-23 0 1	-11 (1								1	
DC 82.1147	Installation of FRP cover of Screw Pump No.3	45	0	37,78%	0%	08-Feb-23		08-Feb-23 A		28-Feb-23		23-Feb-23	27-Feb-23 0 *					₩				1	
							1							ш	a n: : : : :		- CI 88	Date	<u>+++</u>	Revisio		Chec	Approve
Prir	mary Baseline	DC/2019	9/07 O	UTLYING IS	SLANDS	S SEWER	AGE STA	GE2 - UPG	RADING	OF CHEU	NG CHA	J SEWAG	GE TREATMENT AND	DISPO	SAL F.	ACIL	TIES		+				
Act	lual Work						REVISE	D PROGR	RAMME -	REV. 2	2 (28 Fe	bruarv 3	2023)					30-Nov-22	_	v. 20	J		CL
										3 of 13)	_ ,		,					31-Dec-22		v. 21	L		CL
Re	maining Work																	28-Feb-23	Rev				CL
	maining Work																	20-160-20	11/0	V. ZZ	J		
Crit	maining Work tical Remaining Work seline Milestone																	20-1-60-23	110	V. 22	v		



ty ID	Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed %	Actual Workdone 5	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rov. 20)	Early Finish (Rev. 20)	Total Am Float Act	ended ivities	20	01 04	2022	2023		2024	2025 Q1 Q2 Q3	20	126
DC 82.1152	Instellation of MCPs and related cable termination	2*	0	100%	100%	06-Sep-22	30-Sep-22	06-Sep-22 A	30-Sep-22 A			20) 06-Stp-22	30-Sep-22	- AC		111				1-4-10-10	42 43 64	<u>u uz us</u>	un un 02	
DC 82.1155	Installation of Level Electrode	14	0	100%	100%	64-Jan-23	17-Jan-23	64-Jan-23 A	17-Jan-23 &			04-Jan-23	17-Jan-23											
DC S2.1160605	Submission of Draft O&M manual	103	0	100%	100%	31-Jul-22	11-Nov-22	31-Jul-22.A	11-Nov-22 A			31-Jul-22	07-Dec-22						A		1111	1 1 1		1
C S2.1160b10	Submission of Final OSM manual	85	0	100%	100%	30-Nov-22	22-Feb-23	30-Nov-22 A	22-Fab-23 A			30-Nov-22	07-Feb-23						11					
DC S2.1160620	OSM Training to DSD/ST2	15	0	D%	0%			09-Mar-23	23-Hzr-23		23-b/ar-23	08-Feb-23	12-Feb-23	0	•				K1 -	5				
DC S2.1160625	Installation of DOU6 and SAT	45	0	39.12%	39%	07-Feb-23		07-Feb-23 A	31-Har-23		31-b/ar-23	30-Jan-23	22-Mar-23	0	•				HT- I					
DC S2.1160530 DC S2.1160540	Handover Inspection with DSC/ST2 30-cay commissioning for the screw aunging system	32	0	0%	0%	20-Jan-23	20 Feb-23	29-Mar-23 20-Jan-23 A	30-Har-23 20-Feb-23 A	29-Mar-23	29-Mar-23	22-Mar-23 23-Feb-23	22-Mar-23 24-Mar-23	0					 []					
	OF SECTION 2	32	U	0%	100%	23-381-23 20-Feb-23	20/Feb-23 20/Feb-23	20-J3h-23 A 20-Eeb-23 A	20-Feb-23 A			23-F60-23 24-Mar-23	24-Mar-23						T					
OMPLETION 30 SZ 1170	Completion of Section 2 (Working Days)	0	0		107%	2010020	20-Feb-23	20100201	20-Feb-23 A			24-10-22	24-Mar-23		•									
ECTION 3		-		50.52%		27-Nov-20		27-Nov-20 A	13-May-25		13-May-25	27-Nov-20	02-Oct-25	0				+++++	+	++	+++-			
	struction of MBR, Sludge Disgestor Building, Transformer Room			81.19%		27-Nov-20		27-Nov-20 A	02-Aug-24	28-Feb-23	02-Aug-24	27-Nov-20	19-Apr-24	0					+++++++++++++++++++++++++++++++++++++++	÷	- 1			
DC S3.1001	Baseline Mointoring for Air and Noise	21	0	100%	100%	21-Jun-21	11-Jul-21	21-Jun-21 A	11-Jul-21 A			21-Jun-21	11-Jul-21			- 11 1	111	10-1-1-			ttirtr			
Acceptance of	Technical Proposal			100%		29-May-21	15-Jun-21	29-May-21 A	15-Jun-21 A			26-\far-21	02-Dec-21			•				-				
DC.S1.1100	Acceptance of Technical Proposal of Profininary Treatment System at COSTW	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A				19-Nov-21	02-Dec-21				4							
DC.S1.1200	Acceptance of Technical Proposal for MBR System and MBR Building at CCSTW (E8M)	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			26-May-21	08-Jun-21											
DC.S1.1205	Acceptance of Technical Proposal for MBR System and MBR Building at CCSTW (Civil & Structural)	13	0	100%	100%	01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 A			30-Apr-21	13-May-21											
DC.S1.1300 DC.S1.1400	Acceptance of Technical Proposal for Studge Treatment System at COSTW Acceptance of Technical Proposal for Electrical Works at COSTW	13	0	100%	100% 100%	01-Jun-21 01-Jun-21	14-Jun-21 14-Jun-21	01-Jun-21 A 01-Jun-21 A	14-Jun-21 A			26-May-21 26-May-21	08-Jun-21 08-Jun-21											
DC.S1.1450	Acceptance of recrimical Proposal for Electrical Works Design for the 1st3 months of ECIS2	13	0	100%	100%	01-Jun-21 01-Jun-21	14-Jun-21	01-Jun-21 A	14-Jun-21 8			26-May-21 24-May-21	08-JUN-21 30-May-21							1				
DC.S1.1470	Approval of Technical proposal for accommodation of co-office	3	0	100%	100%	29-May-21	01-Jur-21	29-May-21 A	01-Jun-21 A			26-Mar-21	29-May-21			-								
DC.S1.1570	Acceptance of Technical Proposal for DRAA including application of crefabrication of NiC	- 14	0	100%	100%	61-Jun-21	15-Jun-21	01-Jun-21 A	15-Jun-21 A			30-Jun-21	14-Jui-21			4				1.1				
nstallation of I	AiC Office			100%		02-Jun-21	29-Jun-21	02-Jun-21 A	29-Jun-21 A			24-Mar-21	14-Jul-21				111			1	t tinte			
DC.S1.1580c	Delivery of Modules for MIC Co-Office	4	0	100%	100%	02-Jun-21	07-Jun-21	02-Jun-21 A	07-Jun-21 A			24-Mar-21	29-Mar-21			5.								
DC.S1.15806	Installation of MIC Co-Office	18	2	100%	100%	04-Jun-21	29-Jun-21	B4-Jan-21 A	29-Jun-21 A			19-Jun-21	14-Jul-21				-							
	orks of Tree T4			100%		15-Jan-22	24-Nov-22	15-Jan-22 A	24-Nov-22 A			15-Jan-22	24-Nov-22						1					
DC.S3.1010s	Subjeting of Tree Transplant	4	0	100%	100%	15-Jan-22	20-Jan-22	15-Jan-22 A	20-Jan-22 A			15-Jan-22	28-Feb-22					- المحديل						
DC.S3.1010b DC.S3.1020	Root prunting and Preparation Works for Transplanting Transplanting works	123	2	100%	100%	04-Apr-22 22-Nov-22	17-Sep-22 24-Nov-22	04-Apr-22 A 22-Nov-22 A	17-Sep-22 A 24-Nov-22 A			01-Apr-22 22-Nov-22	17-Sep-22 24-Nov-22											
Smart Sewage	Monitoring System (Remaining Works)	2		B7%	100%	27-Nov-22	214909-22	22-Nov-20 A	24-NdV-22 A 30-Jur-23	28-Feb-23	30-Jun-23	22-Nov-22 27-Nov-20	244400-22 07-Feb-23	0	-			<u>HH F</u>	┿╋╧┿┊╞					
DC.S1.1620b10	Complete all trial installation of monitoring devices and sensors and submit an installation Report for trial inst.	205	- 4	100%	100%	27-Nov-20	24-Jun-21	27-Nov-20 A		20100-20	20-0011-20	27-Nov-20	10-Jun-21											
DC.S1.1620c10	Presentation and submission of Draft Transmission Specification	196	0	100%	100%	27-Nov-20	10-Jun-21	27-Nov-20 A	10-Jun-21 A			27-Nov-20	10-Jun-21											
DC.S1.1620610	Completion of installation of monitoring devices and sensors and submission of Installation report	720	0	87.08%	80%	11-Jun-21		11-Jun-21 A	31-May-23	28-Feb-23	31-May-23	11-Jun-21	28-Sep-22	0		-		₩		1				
DC.S1.1620e10	Completion testing of data transmission and compatability to DSD's Data Information System	29	1	0%	0%			01-Jun-23	30-Jun-23	01-Jun-23	30-Jun-23	09-Jan-23	07-Feb-23	0			****		†= <mark>-</mark>					
	zation of Rock Socket Longth for Socketed Steel H-Piles for PTF, SCB, SDB & SHT			100%		31-May-21	16-Aug-21	31-May-21 A	16-Aug-21 A			30-May-21	18-Aug-21			L IT	•		X I					
DC.S3.1050	Structural Design Review After Completion of Predrilling Works (Phase 1)	75	9	100%	100%	31-May-21	09-Azg-21	31-May-21 A	09-ALG-21 A			30-May-21	08-Aug-21			-				-				
DC.S3.1060	ICE Checking and Issuance of ICE certificate	7	0	100%	100%	10-Aug-21	16-Aug-21	10-Aug-21 A 04-Mar-23	16-ALg-21 A			10-Aug-21	16-Aug-21						la de la companya de					la de
Set Up of Towe DC.93.1070	r Crane Subbling of Tower Crane Erection	35	Ø	DN- DN-	0%			04-Mar-23 04-Mar-23*		04-Mar-23 04-Mar-23				19	•									
DC.S3.1070 DC.S3.1070a	Design and Approval of Tower Crane	25	0	0%	0%			22-Ap+23	21-Mpt-23 19-May-23	12-May-23				20					-					
DC.93.1070b	Pile Foundation Construction of Tower Crane	34	0	0%	0%			20-Way-23	30-Jun-23	09-Jun-23				16	•				- Fe -					
DC.S3.1070c	Erection of Tower Onane	12	0	0%	0%			03-Jui-23	15-Jul-23	21-Jul-23	03-Aug-23			16	•				-	1				
Construction o	f MBR Treatment Facilities			57.21%		01-Apr-21		01-Apr-21 A	02-Aug-24	28-Feb-23	02-Aug-24	01-Apr-21	19-Apr-24	0				11111			+			
	brication and Delivery of Major E&M Equipment			58.57%		12-Jul-21		12-Jul-21 A	02-May-24	17-Mar-23	19-blay-24	28-Aug-21	29-Ont-22	17							1			
DC.SS.1075a	Tentering of Subcontrator	45	0	100%	100%	12-Jul-21	26-Aug-21	12-Jul-21 A	26-ALG-21 A			28-Aug-21	14-Oct-21				-							
DC.53.10755	Equipment Submission and Approval	591	0	B4.77%	70%	15-Oct-21		15-Oct-21 A			17-Jun-23 25-Doc-23	15-Oci-21	29-Oct-22	20			-	$\overline{}$						
100 Cit 4000 sto	Membrane Modules	4	Ø	0.65%	100%	01-Nov-22 01-Nov-22	01-Nov-22	01-Nov-22 A 01-Nov-22 A	01-Aug-23 01-Nov-22 A	28-34-23	25-060-23			146					N					
DC.S3.1080a10 DC.S3.1080a11		1	0	0%	100%	01-1909-22	014400422	01-May-23*	01-May-23	27-46-0-23	27. Aug. 22			118				JIII I I	1111	1				
	Submensible Mixers	1	0	100%	100%	02-Jan-23	02-Jan-23	01-May-23 A	02-Jan-23 A	2196925	21909/20			110	•									
	Aeration Biovers & Air Scouring Biovers	1	0	0%	0%			01-Mar-23*		27-Aug-23	27-Aug-23			179	•									
DC.S3.1080e14	Fine Butble Diffuser	1	0	D%	03,			01-May-23*	01-May-23	27-ALg-23	27-Aug-23			118	•				1 4 7					
DC.S3.1080a15	Permeste Purips	1	θ	D%,	0%			01-May-23*	01-May-23	27-ALg-23	27-Aug-23			118	*		nnn	111-1-1-	112-11	[]]]				
DC.S3.1080a16		1	0	DN-	0%			01-May-23*		27-ALg-23				118	•)II						
DC.S3.1080a17		1	0	0%	0%			01-May-23*		27-Asg-23				118	•									
DC.S3.1080a18		1	0	0%	0%			01-Apr-23*	01-Apr-23		28-Jul-23			118	:				1 F . 1					
	Soum Skimming Devices Citric Acid Skimae & Desing System	1	0	0%	0%			01-May-23* 01-May-23*	01-May-23 01-May-23	28-Jul-23 28-Jul-23	28-Jul-23 28-Jul-23			88 88	:			JIII						
	Catro Acid Satrage & Dosing System Socium Hysochorite Storage & Dosing System	1	0	0%	0%		-	01-May-23* 01-May-23*	01-May-23 01-May-23	28-Jul-23 28-Jul-23	28-Jul-23 28-Jul-23			88										
	Socium Hypoortonie Storiege & Doeing System Lifting Appliance	1	0	0%	0%			01-May-23* 01-May-23*	01-May-23 01-May-23	28-Jul-23 20-Sep-23	28-JUI-23 20-Sep-23								1 5 1					
	Duplex Stain ess Steel Air Scouring System	1	0	D%	0%		-	01-Mar-231	01-May-23		20-3ep-23 27-Aug-23								15:					
	SS316 Pipework (For Art)	1	0	DN-	0%			01-Jun-23*	01-Jur-23	19-Nov-23	19-Nov-23			171	•				1 2 3					
	Fibre Gastet for Air Pipework	1	0	D%	0%			01-May-23*	01-May-23	20-Oct-23	20-0ct-23			172	•		nhit			1	t tr			
DC.S3.1080a26	DI Pipework (For Sewage)	1	g	0%	0%			01-May-23*	01-May-23		20-0ct-23			172	•				-	1				
	uPVC Pipevork	1	0	0%	0%			01-May-23*	01-May-23		20-0ct-23			172	•				∥∥┦					
	uPVC Pipevork (Double Containment)	1	0	0%	0%			01-May-23*	01-May-23	20-Oct-23	20-0ct-23			172	•				111					
	Valves for Process Pipework (For Sewage and Air)	1	0	0%	0%		_	01-Apr-23*	01-Apr-23		28-Jul-23			110	•		444	44- <u> </u> - -	de <mark>la la</mark> teria d		14-h-	-4-4-4		
	Actuator for Valves	1	0	0%	0%		_	01-May-23*		27-Aug-23				118	-				i i i i i	1.1				
UL SJ.1080631	Deodorisation System Unit 2	1	0	D%-	0%			01-Jun-23*	01-Jur-23	26-Sep-23	20-560-23			117				<u>na i E</u>	LIBH LI					
																					D		^	
Pri	nary Baseline	DC/201	9/07 OI	JTLYING	ISLAND	S SEWER	RAGE STA	GE2 - UPG	RADING	OF CHEU	NG CHA	U SEWAG	GE TREAT	MENT AP	ND DIS	SPOSA	L FACI	LITIES	Date		Revisio			pprove
Ad	ual Work							D PROGR											30-Nov-2		ev. 20	JL	CL	
	maining Work						AL VIOL				- (31-Dec-2		ev. 21	JL	CL	
	-								rage	4 of 13)									28-Feb-2	23 R/	ev. 22	JL	CL	
Cri	tical Remaining Work																							
	seline Milestone																							



ativity ID	Activity Hame	Orl. Dur (d)	TRA (d) T	ine Espeed X	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. Early Finish Total Amended 20) (Rev. 20) Float Activities		2021	_	2022	2023		2024		2025	2026
DC 62 4280+22	LV Switchased and Kotor Control Panels	4	0	2%	Actual Workdone %			01-Jul-23	01-Jul-23	26-Oct-23	26-Dct-23	Early Start (Rev. Early Finish Total Amended 20) (Rev. 20) Float Activities 117	Q1 0	2 03	04 01	02 03	04 01 02 03	Q4 Q1	Q2 Q3 P	04 01 F	12 03 04	Q1 Q2 Q3 Q4
DC.S3.1080432		1	0	0%	0%			01-Jun-23*	01-Jur-23	25-Dac-23		207										
	UPS with Isolation Transformer	1	0	0%	0%			01-Jun-23*	01-Jur-23		26-Sep-23	117 *	1 1							1		
DC.S3.1080#35		1	0	DN-	0%			01-Aug-23*	01-Aug-23	26-Sep-23	26-Sep-23	56			1111		t tat					
DC.S3.1080u36	Instrumentation	1	0	DN-	0%			01-Aug-23*		26-Sep-23		56 *	1 1									
Febrication				24.34%		01-Nov-22		01-Nov-22 A	03-Har-24	17-Mar-23	20-Mar-24	17										
	Manibrane Modules	459	0	24.34%	24%	01-Nov-22		01-Nov-22 A	03-Mer-24*			17 *			1101							
DC.S3.1380611		135	0	0%	0%			02 May-23*		28-Asg-23		118 *										
	Submersible Mixers	257	0	22.18%	22%	02-Jan-23		02-Jan-23 A		24-Jin-23		116										
	Aeration Biowers & Air Scouring Biowers Fine Butble Diffuser	135	0	0% 0%	035			02-May-23* 02-May-23*			09-Jan-24	118 *										
	Pine Butble Dimoser Permesia Purips	135	0	DN-	0%			02-May-23* 02-May-23*		28-ALg-23 28-ALg-23		118 -								1		
DC.S3.1080015 DC.S3.1080016		125	0	DN-	0%			02-May-23		28-ALG-23		118			1101		-					
DC.S3.1080u17		125	0	DN-	0%			02-Mar-23*			09-Jan-24	118	+ +									
DC.S3.1080o18		185	0	0%	0%			02-Aor-23*		29-Jul-23	09-Jan-24	118 *	1 1									
DC.83.1080619	Sourn Skimming Devices	185	0	0%	0%			02-May-23*	13-Oct-23	29-Jul-23	09-Jan-24	88 *										
DC.S3.1080520	Citric Acid Storage & Dosing System	185	0	0%	0%			02 May 23*	13-Oct-23	29-Jul-23	09-Jan-24	88 *			1101							
DC.\$3.1080621	Socium Hypochionite Storage & Doxing System	185	0	0%	0%			02-May-23*		29-Jul-23	09-Jan-24	88 *										
DC.S3.1080h22		165	9	D%	D%			02-May-23*			03-b/ar-24	142 ^										
	Duplex Stain ess Steel Air Scouring System	135	0	D%-	0%			02-May-23*		28-Aug-23		118 *										
	SS31E Pipework (For Art)	105	0	DN-	0%			02-Jun-23*		20-Nov-23		171 *										
	Fibre Gasket for Air Fipevork	125	0	DN-	0%			02-May-23*			03-Mar-24	172										
	DI Fipework (For Sewage)	135	0	0%	0%			02-May-23*			03-Mar-24	172										
DC.S3.1080627		135	0	0%	0%			02-May-23*		21-0:1-23		172 *										
	uPVC Pipevork (Double Containment) Valves for Process Pipework (For Sevage and A/)	135	0	0% 0%	0%			02-May-23* 02-Apr-23*		21-0ct-23 29-Jul-23	03-Mar-24 09-Jan-24	172 *										
	Valves for Process Pipework (nor Servage and Air) Accurator for Valves	185	0	0%	0%		-	02-401-23* 03-May-23*		28-Jul-23 28-Aug-23		118 -	11							1		
	Decidori sation System Unit 2	155	0	0%	0%			02-Jun-23*		27-Sep-23		117 *	11							÷		
	LV Switchboard and Notor Control Panela	75	0	0%	0%		-	03-Jui-23*		27-0et-23		116	+ -	H H H	1111				++		-+-+	
DC.S3.1080633		32	9	0%	0%			02-Jun-23*		28-Dec-23		207 .	1 1				1					
DC.S3.1080x34	UPS with Isolation Transformer	105	g	0%	0%			02-Jun-23*	14-Sep-23	27-Sep-23	09-Jan-24	117 *	11									
DC.S3.1080635	PLC Parel	105	0	0%	0%			02-Aug-23*	14-Nov-23	27-Sep-23	09-Jan-24	56 *			1101	1.1						
DC.S3.1080536	Instrumentation	105	0	0%	0%			02-Aug-23*			09-Jan-24	56 *					-	3				
Delkery				0%				02-Jui-23		10-Jan-24		17			110				•			
	Membrane Modules	60	0	0%	0%			04-Mar-24			19-b/ay-24	17 *							f			
DC.S3.1080e11		30	0	0%	0%			14-Sep-23			08-Feb-24	118 *					12					
	Submersible Mixers	30	0	D%-	0%			16-Sep-23		10-Jan-24		116 *										
	Aeration Blowers & Air Scouring Blowers	30	0	DS-	0%			14-Sep-23		10-Jan-24		118										
DC.S3.1080c14 DC.S3.1080c15	Fine Butble Diffusor	30	0	0%	0%			14-Sep-23		10-Jan-24 10-Jan-24		118 *										
DC.S3.1080c15 DC.S3.1080c16		30	0	0%	0%			14-Sep-23 14-Sep-23		10-Jan-24 10-Jan-24		118										
DC.S3.1080c17		30	0	0%	0%			14-Sep-23	13-Oct-23	10-Jan-24	08-Feb-24	118 *					-6					
DC.S3.1080c18		30	0	0%	0%			14-Sep-23	13-Oct-23	10-Jan-24		118 *										
	Sour Skinning Devices	30	0	0%	0%			14-Oct-23		10-Jan-24	08-Feb-24	88 *	+	HH	1111				+++-+			
	Citric Acid Storage & Dosing System	30	0	DS-	0%			14-Oct-23	12-\\av-23	10-Jan-24	38-Feb-24	. 88			1101							
DC.S3.1080c21	Socium Hypochlorite Storage & Dosing System	30	0	DS-	0%			14-Oct-23	12-\\cy-23	10-Jan-24	08-Feb-24	88 *	11 1				1					
DC.S3.1080c22	Lifing Applance	30	0	0%	0%			14-0cl-23	12-Nov-23	04-Mar-24	02-Apr-24	142 *	11 1				44	•				
	Duptex Stan ess Steel Air Scouring System	30	0	0%	0%			14-Sep-23	13-0cl-23			118 *					-					
	SS316 Pipework (For Art)	30	0	0%	0%			15-Sep-23	14-Oct-23			171 *			110		-					
	Flare Gasket for Air Pipework	30	0	0%	0%			14-Sep-23		04-Mar-24		1/2			100							
	DI Pipework (For Sevrage)	30	0	0%	0%			14-Sep-23		04-Mar-24		172 -	11							1		
DC.S3.1080c27		30 30	0	0% 0%	0%			14-Sep-23		04-Mar-24 04-Mar-24		172 *	11									
	uPVC Pipevork (Double Containment) Valves for Process Pipevork (For Sevage and Ari)	30	0	DS- DS-	0%			14-Sep-23 14-Sep-23	13-Oci-23 13-Oci-23	04-Mar-24 10-Jan-24		172			++++				+++-+		-+-+	
	Valkes of Process Pitework (For Selvage and An) Actuator for Valves	30	0	0%	0%		-	14-Sep-23 15-Sep-23	13-0cl-23	10-Jan-24		118	11		110		-li			1		
	Deodorisation System Unit 2	30	0	0%	0%			15-Sep-23	14-Oci-23	10-Jan-24		117 *	11									
	LV Switchboard and Motor Control Panels	30	0	0%	0%			16-Sep-23	15-Oct-23			116										
DC.S3.1080c33	V\$D	15	0	0%	0%			02-Jui-23	16-Jul-23	25-Jan-24	08-Feb-24	207 *	11 1									
	UPS with Isolation Transformer	30	0	0%	0%			15-Sep-23			08-Feb-24	117 *			1111						11	
DC.S3.1080x35	PLC Parel	30	0	0%	0%			15-\or-23	14-Dec-23	10-Jan-24	08-Feb-24	56 *						•ч∥				
DC.S3.1080c36		30	0	D%	0%			15-\or-23		10-Jan-24		56 ^	1					0				
Civil & Structural V				65.54%		01-Apr-21		01-Apr-21 A	29-Feb-24		29-Feb-24	01-Apr-21 30-April-23 0	11									
	Site Preparation Works for Piling (including relocation of Existing Studge Storage Sheller)	23	4	100%		31-May-21	03-Jul-21	31-May-21 A				31-May-21 03-Jul-21	II. E	1 444	± 10							
	Subjecting of Pling Works	48	0	100%		01-Apr-21	29-May-21	01-Apr-21 A	29-May-21 A			01-Apr-21 29-May-21	ll (t		+					1		
	Material Testing for Piling Works	29	0	100%			29 May 21	30-Apr-21 A				09-May-21 07-Jun-21 24-Feb-22 04-Mar-22	11	11	ТШ					i.		
	Mobilization and Setting up of 2nd Set Pling Rig and Associated Equipment	9	0	100%	100%	24-Sep-21 07-Oct-21	24-Sep-21 31-Jan-22	24-Sep-21 A 07-Oct-21 A	24-Sep-21 A 31-Jan-22 A			24-Feb-22 04-Mar-22 07-Oct-21 31-Jan-22	11	ШĽ	L, T I							
DC.S3.1100 DC.S3.1110	Piling works for pre-bored socket H-piles (67 ros, dis610) Design and File Loading Test of Compression Pile	90	3	100%	100%	07-Oct-21 31-Jan-22	31-Jan-22 12-Apr-22	07-0et-21 A 31-Jan-22 A		-	-	07-Oct-21 31-Jan-22 28-Feb-22 11-May-22	11	ШŤ		_						
	Pile Loading Test of Compression Pile	1	3	100%	100%	26-Sep-22	12-Adt-22 29-Sep-22	26-Sep-22 A				28-FR0-22 11-MNy-22 08-Sep-22 21-Sep-22	H		++61	- - j			+		-+-+	
DC.53.1111	Proof Drill	3	1	100%	100%		20-56p-22 24-Ma-22		24-Mar-22 A			17-Mar-22 24-Mar-22	11									
-													u I		31183	: ::			<u></u>		101	
Prin	nary Baseline	DC/2019	9/07 OU	TLYING I	SLANDS	SEWER/	AGE STA	GE2 - UPG	RADING	OF CHE	JNG CHA	U SEWAGE TREATMENT AND D	ISPOS	AL FA	CILIT	IES	Date	_	Revis	sion	Chec.	
Acti	ual Work											bruary 2023)					30-Nov-2		lev. 20		JL	CL
								2 ROOM				in adi y 2020/					31-Dec-2		lev. 21		JL	CL
	maining Work								(Page	5 of 13)						28-Feb-23	3 F	lev. 22		JL	CL
Criti	ical Remaining Work																					
A A Bas	eline Milestone																					



D	Activity Name	Ori. Dur (d)	TRA (d)	Time Elapsed X	Actual Workdone S	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. 20)	Early Finish (Rev. 20)	Total A Float A	mended cibilies	202	03 04	202	2	2023	1 94	2024 Q1 Q2 Q3 Q4	2025	2026
DC.S3.1140	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									. 42 40 44	u. uz u. u	
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-Aug-22	06-Dec-22					•	-				1.1.1	
0C.S3.1160a	Exervation 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				ШШ.		12					
DC.SS.11635	Installation of wailing and shut for ELS Layer 1	23	0	100%	100%	13-Dec-22	07-Jan-23	13-Dec-22 A	07-Jan-23 A			13-Dec-22	30-Dec-22					III T	17		1			
DC.53.1160c	Excavation to +0.5mPD	29	0	100%	100%	31-Dec-22	06-Feb-23	31-Dec-22 A	06-Fab-23 A			31-Dec-22	12-Jan-23						- 4	1				
DC.53.1160d DC.53.1160e	Installation of waiting and shull for ELS Layer 2 Excavation to -3 8mPD	15	0	100% 41.15%	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-Jan-23 02-Feb-23	0'-Feb-23 15-Feb-23							1				
DC.83.11606 DC.83.1160f	Installation of walling and strut for ELS Layer 3	15	0	0%	0%	23-P60-23		20-Fab-23 A 11-Mar-23		11-Mar-23		20-Feb-23	04-Mar-23	0						đ.				
DC.83.1160g	Excertaion to -5 0mPD	10	0	0%	0%			29-Mar-23	13-Apt-23	29-Mar-23	13-Acr-23	06-Mar-23	18-Mar-23	0						Q				
DC.S3.1160h	Installation of wailing and strut for ELS Lover 4	15	0	0%	0%			14-Apr-23	02-May-23	14-Apr-23	02-May-28	20-Mar-23	01-Apr-23	0	•					. .				
DC.83.1160i	Excevation to -7.0mPD and concrete blinding layer	15	0	0%	03,			03-Vay-23		03-May-23	19-blay-23	03-Apr-23	13-Apr-23	0	•					6.				
Substructure Const	uttion (Water Tanks, Pump Room and Blower Room)			DN-				20-Vey-23	29-Nov-23	20-May-23	29-Nov-23			0						VI	←			
DC.S3.1170a	Construction of File Cap (Grid 3-4)(B30m3, 4 pour)	41	-0	DN-	0%			20-Vey-23	10-Jul-23	20-May-23	10-Jul-23			0						1 5 -	1			
DC.S3.1170a10	Removal of 4th Waling & Struta	7	0	D%	0%			11-Jui-23	18-Jul-23	11-Jul-23	18-Jul-23			0	•		1111			1 7				
	RC Wall Construction from -5.0mPD to -3.8mPD (150m3, 1 pour)	24	0	0%	0%			19-Jul-23	15-Aug-23	19-Jul-23	15-Aug-23			0	·					1 1				
	Removal of 3rd Wailing & Struts	7	0	0%	0%			18-Aug-23	23-Aug-23					0	•					4			1 1 1	
	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-Jul-23			04-Sep-23			0	•					1 7	5 H			
	Removal of 2nd Walling & Struts	9	0	0%	0%			05-Sep-23	14-Sep-23		14-Sep-23			0	•	14	Ц.Ц.	<u> </u>		C	5			
	RC Well Construction from +0.5mPD to +3.0mPD (\$20m3, 4 pour)	24	0	D%.	03, 03,			15-Sep-23 16-Oct-23	14-OcI-23 26-OcI-23	15-Sep-23 16-Oct-23	14-Oct-23 26-Oct-23			0	-						¢,		1 1 1	
	Removal of 1st Wailing & Struts RC Wail and Roor Stab Construction from +3.0mPD to +4.65mPD (530m3, 3 pour)	29	0	D%	0%			27-00-23	20-00+23 29-Nov-23					0							F.			
Substantiane Const	rectives and hear state care recearing volume to the common (sound), a poor/	28	0	DN DN	0%			27-00+23 03-00+23	29-109-23 11-Jar-24		29-N09-23			0						ſ				
DC.SJ.1180a	Installation of Shoet Files Wall	15	đ	0%	0%			03-00-23		05-001-23	26-0cl-23			2	.					L	4 1			
	Excavation Work	17	0	0%	0%			27-001-23	15-Nov-23		15-Nov-23			0	·			10 L			9			
	Construction of Pile Cap (280m3, 2 pour)	21	0	0%	0%			16-\07-23	09-Dec-23					0	·						H			
	Construction of Wall and Ground Slab (150m3, 1 pour)	18	0	0%	0%			11-Dec-23		11-Dec-23				0	•									
	Backfilling and Removal of ELS	9	0	0%	03,			02-Jan-24		02-Jan-24				0	•						4			
Superstructural Cor	struction (Oxid B - F)			DN-				30-\\or-23	08-Feb-24	30-Nov-23				0							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	TITIT		1		1-#		1111	
DC.S3.1190a10	Wall, Column and Roof Stati 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	•									
Superetructurel Cor	etrockin (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 (150mS, 1 pour)	19	0	0%	0%			13-Jan-24		13-Jan-24				0	·									
	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				0	·						H			
Ocsign 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			1	-							
DC.S3.1230	Other substructures and Superstructs Design	397	0	100%	100%	08-Jan-22	28-Feb-23	09-Jan-22 A	28-Feb-23 A			08-Jan-22	29-Dec-22				-		- 1	2				
DC.S3.1270	Architecture & Landscaping Desgn	578	0	83.27%	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-Aug-24	30-Sep-21 31-Oci-23	27-Feb-23 19-Acc-24	35			1		1					
DC.53.1210	E&H. Mechanical Installation (MBR. Air Blover DO system, Pump. etc.)	80	10	0%	0%			05-Feb-24		09-Feb-24	02-A09-24 03-Jun-24	31-OcH23 31-OcH23	19-Feb-24	0			++++		-+-				•	
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. HOURED	10-1 60-24	0										
DC.S3.1213b	Installation of BS Equipment	45	5	0%	0%			13.Mar.74	16-May-24		03-Jun-24			15										
DC.S3.1210c	Installation of Lifting Applicance	45	5	0%	0%			13-Mar-24		03-Apr-24	03-Jun-24			15									1 1 1	
DC.S3.1223a	SCADA System Site Acceptance Test (Prase 1 MBR Construction)	30	0	0%	03,			14-Apr-24	13-May-24	14-May-24	12-Jun-24	30-Nov-23	29-Dec-23	30						1	r-4			
DC.S3.1223b	SCADA System Commissioning Test (Prase 1 MBR Construction)	30	0	0%	03,			13-Jun-24	12-Jul-24	13-Jin-24	12-Jul-24	28-Jan-24	27-Feb-24	0				111-1-	- t-	111	11			
DC.S3.1233b	Seeding of MBR System	30	0	0%	0%			04-Jun-2-	04-Jul-24	04-Jun-24	03-Jul-24	20-Feb-24	19-Apr-24	0										
DC.S3.1233c	System Commissioning Test	32	0	DS-	0%			04-Jul-24	02-Aug-24	04-Jul-24	02-Aug-24			0						N .				
Internal Architect	ural Works			0%				09-Feb-24	29-4pr-24	16-Mar-24	03-Jun-24	31-Ocl-23	01-Feb-24	28										
DC.83.1200	Architectural Works (Internal)	60	2	0%	0%			09-Fob-24	29-Apr-24	16-Mar-24		31-Oci-23	0'-Feb-24	28								T	- 1. 1. 1.	
	f Sludge Digestor Building with 3 Sludge Holding Tanks			89.88%		31-May-21		31-May-21 A	29-Nov-23	12-Mar-23	17-Dec-23	31-May-21	11-Nov-23	18		T			1					
	brication and Delivery of Major E&M Equipment			75.83%		12-Jul-21		12-Jul-21 A	05-Sep-23	12-Mar-23	01-00+23	12-Jul-21	18-Apr-23	26			1 111			1	1 1			
DC.S3.1235a	Tendering of Subcontrator	45	0	100%	100%	12-Jul-21	25-Aug-21	12-Jul-21 A	25-Aug-21 A	10.11		12-Jul-21	25-Aug-21			1	1			4				
DC.S3.1235b	Equipment Submission and Approval	435	0	92.65%	85%	10-Aug-21	24.1- 07	10-Aug-21 A 31-Jan-22 A	13-Apr-23	12-Mar-23	25-Apr-23	10-Aug-21	18-0ct-22 10-Nov-21	12		11	1		N	T				
DC.S3.1240a1	Change Dimenter Found Draw and Dimented Chanter Draw	1	a	100%	107%	31-Jan-22 31-Jan-22	31-Jan-22 31-Jan-22	31-Jan-22 A 31-Jan-22 A	31-Jan-22 A 31-Jan-22 A			10-Nov-21 10-Nov-21	10-Nov-21 10-Nov-21					[-		J.				
	Sturge Digester Feed Pump and Digested Studge Pump Sturge Digester Air Blower	1	0	100%	100%	31-Jan-22 31-Jan-22	31-Jan-22 31-Jan-22	31-Jan-22 A 31-Jan-22 A	31-Jan-22 A 31-Jan-22 A		-	10-Nov-21 10-Nov-21	104Nov-21 104Nov-21		——————————————————————————————————————		11@h	101 I.						
DC.S3.1240a10 DC.S3.1240a11	Suzge Digetoer Air Bicker Air Diffuser for Sludge Digester	1	0	100%	100%	31-Jan-22 31-Jan-22	31-Jan-22 31-Jan-22	31-Jan-22 A 31-Jan-22 A	31-Jan-22 A 31-Jan-22 A			10-309-21	104Nov-21 10-Nov-21		—— <u> </u>		10,0							
DC.S3.1240a11 DC.S3.1240a2	Submersible Mixer for Digested Studge Holding Tank	1	0	100%	100%	31-Jan-22 31-Jan-22	31-Jan-22	31-Jan-22 A 31-Jan-22 A	31-Jan-22 A 31-Jan-22 A			10-Nov-21 10-Nov-21	104N08-21]]		101	NI I						
DC.S3.1240a2	Deadhrization 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					MI L						
DC.S3.124064	LV Switchcoands, Motor Control Centers and Associated Components	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				1841	NH-1-				the transmission of transmission of the transmission of the transmission of transmissi		
DC.S3.1240a5	Variable Speed Drive (VSD)	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21		—— <u> </u>		140							
DC.S3.1240#5	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				184	NI I						
DC.S3.1240a7	Pipe Work/Veive	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21					MI 1						
DC.S3.1240a8	Instrument	1	0	100%	100%	31-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21				.	NI L						
DC.S3.1240a9	Lifting Appliance	1	0	100%	100%	\$1-Jan-22	31-Jan-22	31-Jan-22 A	31-Jan-22 A			10-Nov-21	10-Nov-21					NI T	1					
Febrication				67.35%		01-Feb-22		01-Feb-22 A		23-Mar-23	01-0di-23	01-Feb-22	15-Jan-23	26							1 1			
	Slucge Digester Feed Pump and Digested Sludge Pump	239	0	100%	100%	01-Feb-22	28-Sep-22	01-Feb-22 A	28-Sep-22 A			01-Feb-22	28-Sep-22				1 M P							
	Slucge 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											
	Air Diffuser for Sludge Digester	240	9	100%	100%	01-Feb-22	28-Sep-22	01-Feb-22 A	28-Sep-22 A			01-Feb-22	28-Sep-22			.	144					-		
DC.S3.1240b11		154	9	100%	100%	01-Feb-22	15-Jul-22	01-Feb-22 A	15-Jul-22 A		20.11	01-Feb-22	14-Jtil-22		. 11					4				
DC.S3.1240611 DC.S3.124062	Submensible Mixer for Digested Studge Holding Tank			89.7%	90%	01-Feb-22		01-Feb-22 A	13-Apr-23	DS-Apr-23	20-blay-23	01-Feb-22	29-Dec-22	37	<u>`</u>			<u>111 1</u>						
DC.S3.1240611 DC.S3.124062	Submensible Mixer for Digested Studge Holding Tank Deaderzation Unit 4	437	9																					
DC S3.1240611 DC S3.124062 DC S3.124063	Deodorization Unil 4					SEWEP	AGE STA	GE2 - LIPO		E CHE	ING CHA	LI SEWA	SE TREAT	MENT A		POSA	FAC	I ITIES		Dat	te	Revision	n Cheo	
DC S3.1240e11 DC S3.1240e2 DC S3.1240e3 Prin	Deoderzator Uni 4 mary Baseline				SLAND			GE2 - UPG						MENT A	ND DIS	POSA	L FAC	ILITIES		Dat 30-Nov-			n Cheu JL	C Appre CL
DC.S3.1240611 DC.S3.124062 DC.S3.124063 Prin Act	Develoration Uni 4 many Baseline ual Work				SLAND			GE2 - UPG D PROGR	AMME -	REV. 2	2 (28 Fe			MENT A	ND DIS	POSA	L FAC	ILITIES		30-Nov-	-22	Rev. 20	n Cheu JL JL	CL
DC.S3.1240611 DC.S3.124062 DC.S3.124063 Prin Act	Deoderzator Uni 4 mary Baseline				SLAND				AMME -		2 (28 Fe			MENT A	ND DIS	POSA	L FAC	ILITIES		30-Nov- 31-Dec-	-22 -22	Rev. 20 Rev. 21	JL JL	CL CL
DC S3.1240e11 DC S3.1240e2 DC S3.1240e3 Prir Act	Develoration Uni 4 many Baseline ual Work				SLAND				AMME -	REV. 2	2 (28 Fe			MENT A	ND DIS	POSA	L FAC	ILITIES	i	30-Nov-	-22 -22	Rev. 20	n Cheo JL JL JL	CL



otivity ID	Activity Name	Ori, Dur (d)	TRA (d)	Time Elapsed X	Actual Workdone S	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. 20)	Early Finish	Total A Float A	mended	202		202		2	123	202/		2025 02 03 04	2026	202
DC.S3.124064	LV Switchboards, Motor Control Centers and Associated Components	5-2	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	- canada		1 11		15 (14 (un uz						
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-Jul-22					-	++	4				1.1.1		
DC.S3.124096	Cable	240	0	100%	100%	01-Feb-22	28-Sep-22	01-Feb-22 A	28-Stp-22 A			01-Feb-22	28-Sep-22					-	-							
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				- 511		-	1		1111	(* † * * * * *	1-1-1-		
DC.S3.124068	Instrument	572	0	68.52%	68%	01-Feb-22		01-Feb-22 A	26-Aug-23	23-Mar-23	18-Sep-23	01-Feb-22	14-Dec-22	23	•				-							
DC.S3.1240s9	Lifing Appliance	582	0	67.35%	67%	01-Feb-22		01-Feb-22 A	05-Sep-23	28-Mar-23	01-0d-23	01-Feb-22	14-Dec-22	26	•		511	-	-					1 1 1		
Delivery				69.13%		24-May-22		24-May-22 A	05-Sep-23	21-May-23	01-0di-23	24-May-22	18-Apr-23	26				-	<hr/>							
Civil & Structural	l Works			76.04%		31-May-21		31-May-21 A	16-Sep-23	17-Mar/23	07-0ct-23	31-May-21	25 May-23	21		1+-								1.1.1		
DC.83.1250	Site Preparation Works for Piling (including removal of existing Studge Tank)	38	4	100%	100%	31-May-21	17-Jul-21	31-May-21-A	17-Jul-21 A			31-May-21	17-Jul-21			-				N						
DC.S3.1280a	Subjetting of Supply and Installation of FLS	28	0	100%	100%	01-Aug-21	29-Aug-21	01-Aug-21 A	29-Aug-21 A			01-Aag-21	29-Aug-21											1 I I I		
DC.S3.1280a10	Preiminary Pile and Pile Load Test	45	3	100%	100%	12-Jul-21	06-Sep-21	12-Jul-21 A	06-Sep-21 A			03-Dec-21	04-Feb-22					-								
DC.SS.1263b	Piling works for pre-bored sockel H-piles (37 ros. dis610, fteam)	79	4	100%	100%	23-Jul-21	01-Nov-21	23-Jul-21 A	01-Nov-21 A			15-Dec-21	28-Mar-22			1.12		#						1.1.1		
DC.S3.1290a	Pre-boring for installation of sheet piles	122	1	100%	100%	01-Nov-21	31-Ma22	01-Nov-21 A	31-Mer-22 A			01-Nov-21	30-Mar-22					189 J.					<u></u>	J. J. L.		
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					1						1 1 1		
DC.83.1300	Excevation 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					-	B L							
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											1 1 1		
DC.83.1310b	Subjetting of Formworks, Concretor and Miscellaneous Works	45	0	100%	100%	25-Nov-21	19-Jan-22	25-Nov-21 A	19-Jan-22 A			25-Nov-21	19-Jan-22													
DC.83.1310c	Construction of Pile Cap. (Grid 2-4)	84	2	100%	100%	20-Sep-22	08-Dec-22	20-Sep-22 A	08-Dec-22 A			20-Sep-22	08-Dec-22										í			
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						11					111		
DC.SS.1312e	Construction of Underground Wall (Grid 2-4) (from -1.2mPD to +1.0 mPD)	23	0	100%	100%	64-Jen-23	01-Feb-23	B4-Jan-23 A	01-Feb-23 A			27-Dec-22	20-Jan-23						11	1				1.1.1		
DC.53.1310f	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		
DC.53.1310g	Construction of Underground Wall (Grid 2-4) (from +1.0mPD to +3.1mPD)	22	0	22.72%	31%	23-Feb-23		20-Feb-23 A	18-Har-23	17-Mar-23		07-Feb-23	27-Feb-23	15	<u>.</u>				117	f			6 E - E	1.1.1		
DG.83.1310h	Removal of Formwork and Backlilling and Removal of ELS (Layer 1)	6	0	0%	0%			20-Mar-23	25-Har-23	11-Apr-23	17-Apr-23	28-Feb-23	14-Mar-23	15	: 11				11	1						
DG.83.1310	Construction of ground stab (Grid 2-4) (from +3.1mPD to +4.4mPD, 180m3, 1 pour)	22	0	0%	0%			27-Mar-23	25-Apt-23	26-Apr-23	22-blay-23	15-Mar-23	28-Apr-23	22	: 11					1	. II			111		
DC.83.1330	Installation of ELS and excavation for pile cap of Sludge Holding Tanks (523/r3)	8	0	0%	0%			17-Jui-23		04-Asg-23	10-Aug-23	15-Mar-23	2'-Mar 23	16	•				1	Ĩ.	C. 11					
DC.\$3.1340	Construction of RC structure of Sludge Holding Tanks (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	•					1				1.1.1		
DC.SS.1350	Removal of Formwork and Backfilling to ground level and removal of ELS (Sludge Holding Tank)	6	0	0%	03,			07-Aug-23		25-ALg-23		0E-Apr-23	19-Apr-23	16	-					Ĩ.				111		
DC.SS.1351	Construction of RC superstructure (Sludge Holding Tank) (373m3, 2 pour)	30	0	0%	03,		-	14-Aug-23		01-Sep-23		20-Apr-23	25-Mey-23	16	÷ .		444	H		L.	1-1-		í- -	4-4-4-		
DC.SS.1360a	Construction of RC Weil (Gride 2-4) (from +4.4mPD to +9.15mPD, 130m3, 1 pour)	24	0	DN-	0%			26-Ap23			20-Jun-23			22						١ĉ						
DC.53.1360b	Construction of RC Weil (Gride 2-4) (from +9.25mPD to +12.3mPD, 60m3, 1 pour)	20	0	D%	0%			25-Vey-23	17-Jur-23	21-Jun-23	15-Jul-23			22										1.1.1		
DC.83.1383c	Construction of RC Real Stab (Girde 2-4) (230m8.1 pour)	18	g	0%	0%			15-Jun-23	08-Jul-23	17-Jul-23	03-Aug-23			22												
DC.83.1360d	Installation of ELS and excavation for substructures of Studge Digestor Building (Gride 1-2)	8	0	0%	0%			29-Mar-23		20-Apr-23	28-Apr-23			15						2						
DC.S3.1360e	Construction of RC pile cap (Grid 1-2) (65m3, 1 pour)	12	0	0%	0%			12-Apr-23		29-401-23	13-May-23			15			LUU I			la la la			(
DC.SS.1360f	Construction of RC ground sisb (Gride 1-2) (80m3, 1 pour)	15	0	0%	0%			26-Ap-23 16-Vay-23	15-May-23 22-May-23	15-May-23 03-Jun-23	02-Jun-23 09-Jun-23			15	-					ìť				1.1.1		
DC.SS.1360g DC.SS.1360h	Backfilling to ground level and removal of ELS (Gride 1-2) Construction of RC Wall and Sab (Gride 1-2) (from +4.4mpD to +9.15mpD) (90m3, 1 pour)	b 2'	0	0%	0%			16-98y-23 23-98y-23		10-Jun-23	09-Jun-23 06-Jul-23			1a 15						Ľ.						
DC.SS.13601	Construction of RC Weil (Crite 1-2) (from +4 AmpLi to +9, fontpu) (90m3, 1 pour) Construction of RC Weil (Crite 1-2) (from +9, 15mpD to +12,3mpD) (35m3, 1 pour)	2'	0	0%	0%			23-98y-23 17-Jun-23	16-Jur-23 08-Jul-23	10-Jul-23 07-Jul-23	26-Jul-23			1a 15	-											
DC.53.1360	Construction of RC Roal Stab (Gride 1-2) (Iron 19: rango (of 12:angu) (construction of RC Roal Stab (Gride 1-2) (110m3) (110m3, 1 pour)	17	0	DS.	0%			10-Jul-23	28-Jul-23		26-Jul-23			15						1	F _		(
E&MWorks	Construction of NC Road Place (ender 1-2; (110Hb) (110Hb; 1 (20H)	17	0	0%	0.8			10-4up-23	20-Jul-23 29-Non-23	28-44-0-23	17-Dec-23	26-Jul-23	11-Nov-23	13								.				
DC.S3.1383a	Installation of Submorsible Nixer, Air Blover, Air Diffuser, Feed Pump, DOU	58	a	0%	0%			10-Aug-23		28-Aug-23		26-Jul-23	28-Sep-23	15							L-			1 1 1		
DC.S3.1380b	Installation of Cable Containment & Conduit	25	0	0%	0%			10-Aug-23		28-44-9-23		26-Jul-23	23-Aug-23	15							- 4					
DC.S3.1380c	Installation of BS Equipment, Caple, Instrument, P. C Panel	43	0	0%	0%			25-Aut-23	18-Oct-23		03-Noy-23	10-Aug-23	28-Sep-23	15							L.			1 1 1		
DC.S3.1380e10	Installation of Lifting Applicance	25	0	0%	0%			02-Sep-23	26-Sep-23	10-Oct-23	03-Noy-23			38	•						۲đ					
DC.SS.1380d	SAT of Equipment	7	0	0%	03,			17-0ct-23		04-Nov-23	11-Nov-23	29-Sep-23	12-Oct-23	15				11				1-1-1	- t t-	1-1-1-		
DC.53.1383d10	Seeding for sludge digestion system	14	0	DS-	03.			17-0ct-23		04-Nov-23	17-Nov-23			18												
DC.S3.1390a	SCADA System Site Acceptance Test (Prese 1 Studge Digestor Building Construction)	30	0	DS-	0%			09-Sep-23	08-Oc1-23	19-0ct-23	17-Nov-23	25-Aug-23	23-Sep-23	40							-					
DC.53.1390b	SCADA System Commissioning Test (Phase 1 Sudge Digestor Building Construction)	30	0	0%	0%			09-0cl-23	07-Nov-23	18-Nov-23	17-Dec-23	24-Sap-23	23-Oct-23	40							🖣					
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						U		-		1.1.1		
Internal Architec				0%				18-Jul-23	03-Oct-23	04-Aug-23	20-0ct-23	26-Jul-23	10-Nov-23	15						N.	H H					
DC.S3.1370	Architectural Works (internal)	63	2	0%	0%			18-Jui-23	03-Oct-23	04-ALg-23	20-0ct-23	26-Jul-23	10-Nov-23	15						N	⊨ a ati	4				
Construction of	f LV Main Swtich 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												
Procurement, Fa	brication and Delivery of Major E&M Equipment			97.39%		12-Jul-21		12-Jul-21 A	15-War-23	20-Aug-23	04-Sep-23	12-Jul-21	18-Msy-23	173					-	71				1 1 1		
DC.S3.1405a	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.S3.1405b	Equipment Submission and Approval	140	0	100%	100%	10-Sep-21	18-Dec-21	10-Sep-21 A	18-Dec-21 A			10-Sep-21	18-Dec-21											1		
DC.S3.1410a	Procurement	30	0	100%	100%	14-Feb-22	14-Feb-22	14-Feb-22 A	14-Feb-22 A			20-\lar-22	18-Apr-22					<u> </u>	-							
Febrication				100%		18-Jan-22	25-Feb-23	18-Jan-22 A	25-Feb-23 A			18-Jan-22	16-May-23							11			(L	111		
DC.S3.14106	Cable	247	0	100%	100%	18-Jan-22	22-Sep-22	18-Jan-22 A	22-Sep-22 A			18-Jan-22	13-Nov-22											1 1 1		
	LV Switchboard, Motor Control Centers and Associated Components	118	0	100%	100%	31-Oct-22	25-Feb-23	31-Oct-22 A	25-Feb-23 A			31-Oct-22	18-May-23						+					1.1.1		
Delkery				86.89%		01-Sep-22		01-Sep-22 A	15-War-23	20-Aug-23	04-Sep-23	14-Nov-22	18-Apr-23	173					11							
DC.S3.1410e	Cable	21	0	100%	100%	01-Sec-22	22-Sep-22	01-Sep-22 A	22-Sep-22 A			14-Nov-22	13-Dec-22						•••	41				111		
	EV Switchoosind, Motor Control Centers and Associated Components	15	0	11.11%	0%	26-Feb-23		26-Feb-23 A	15-Har-23	20-ALg-23	04-Sep-23	20-\lar-23	18-Apr-23	173						}						
Civil & Structural				100%		04-Oct-21	31-Jan-23	04-0st-21 A	31-Jan-23 A			04-Oct-21	31-Jan-23							7/				1.1.1		
DC.S3.1420	Piling works for pre-bored sockal H-piles (17 ros. dia610) (1team)	54	5	100%	100%	15-Oct-21	18-Nov-21	15-Oct-21 A	18-Nov-21 A			28-Feb-22	02-Apr-22					- H						1.1.1.		
DC.S3.1430	Pre-boring of sheet piles & installation of pipe pile wall	58	2	100%	100%	19-Nov-21	29-Jan-22	19-Nov-21 A	29-Jan-22 A			04-Apr-22	18-Jin-22					2 mm	- E				(111		
DC.S3.1431	Grouting Cuitain 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				100	n i								
D0.83.1450	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				1911	n i						111		
DC.S3.1460a	Subjecting of Earthworks	45	0	100%	100%	04-Oct-21	25-Nov-21	04-Oct-21 A	25-Nov-21 A			04-Oct-21	25-Nov-21					FL.								
DC.S3.1460b	Installation of ELS and excevation 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		II.			L EL					<u></u>			
DC.S3.1470	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-Jul-22					- -								
DC.S3.1480	Removal of formetoks, falseworks, backfilling insiss filling and removal of ELS	13	1	100%	100%	29-Jt/-22	15-Aug-22	29-Jul-22 A	15-ALG-22 A			19-Jul-22	03-Aug-22					-					<u>, 1</u>	111		
	mary Baseline	DOIDCH	V07 01			CENT	ACENT	050 1100	DADING	E OUE		LICENCE		CAREAUX -		0004	E 4 0		T		Date	F	Revision	Chec	Apr	roved
	-	DC/2019	007.00	ILYING	SLANDS			GE2 - UPG						INENTA	ND DIS	PUSAL	. FAC	LITIES		30~	lov-22	2 Rev. 2	20		CL	
Ad	tual Work						REVISED	D PROGR	AMME -	REV. 2	2 (28 Fe	ebruary 2	2023)												CL	
Re	maining Work									7 of 13))ec-22			JL		
	5								(i age	. 01 10)										28-F	eb-23	3 Rev. 2	22	JL	CL	
	tical Remaining Work																									
🔷 🔷 Ba	seline Milestone	1																								
		1																		1						



y 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 (Bay 20)	Total Amended Float Activities	2021	2022	2023	2	024	2025	2026 4 Q1 Q2 Q3 1
DC.S3.1490a	Subletting of Enishing Works	181	0	100%	100%	18-Jul-22	31-Jan-23	19-Jul-22 A	31-Jan-23 A			19-Jul-22	31-Jan-23			- uz uo U4		3			
DC.\$3.1490b	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								
E&M Works				1.89%		25-Feb-28		25-Feb-23 A	02-Aug-23	22-Jil-23	17-Dec-23	16-Feb-23	02-Aug-23	137						<u></u>	
DC.S3.1500	Installation of other E&M equipments	70 70	2	DN-	03.			01-Apr-23		23-Aug-23	17-Nov-23	19-Apr-23	03-Jul-23	115							
DC.S3.15006 DC.S3.15006	Installation of Electrical System Installation of SCADA	75	2	D%- D%-	0%			01-Apr-23 15-Vey-23	28-Jur-23 28-Jur-23	25-Aug-23 07-Oct-23	17-Nov-23 17-Nov-23			117							
DC.83.15000 DC.83.15000	Installation of SCADA Installation of BS System	35	0	0%	0%			15-98y-23 03-98y-23	28-Jur-23 28-Jur-23	23-Sep-23	17-Nov-23 17-Nov-23			120			- - -				
DC.83.1510	Site Acceptance Test	30	0	0%	0%			04-Jul-23	02-Aug-23		17-Dec-23	04-Jul-23	02-Aug-23	137							
E&M Works of Pans	Inter Room			2.38%		25-Feb-23		25-Feb-23 A	30-Jun-23	22-Jul-23	17-Nov-23	16-Feb-23	20-Jun-23	140							
DC.\$3.1530a	Installation of BS equipment at CLP Transformer Room	34	2	5.58%	0%	25-Feb-23		25-Feb-23 A	12-Apt-23	22-Jul-23	30-Aug-23	16-Feb-23	29-Mar-23	116		111	-			111	
DC.S3.1530b	Site Acceptance Test	4	0	0%	0%			13-Ap+23			03-Sep-23	30-\far-23	02-Apr-23	140			₽				
DC.S3.1530a	CLP Inspection and Defect Restification	9	0	DN-	0%			17-Ap+23		04-Sep-23		03-Apr-23	20-Apr-23	116			77				
DC.S3.1530d	CLP Re-inspection and Minor Defect Redification	4	0	DN-	0%			27-Ap-23	02-h/ay-23		18-Sep-23	21-Apr-23	25-Apr-23	116			. e			4	
DC.S3.1530d10 DC.S3.1530e	Temporary Reinstatement of Access for CLP's Works Handover to CLP for CLP's Works	12 48	0	D%- D%-	0%			17-Apr-23 03-Vev-23	29-Apr-23	05-Sep-23 19-Sep-23		og 4	40.1	117 116							
DC.83.15306 DC.83.1530f	Handover to CLP for CLP's Works Engenzing	45	0	0%	0%			30-Jun-23	29-Jun-23 30-Jun-23	19-8ep-23 17-Nov-23	16-N0y-23 17-Noy-23	28-Apr-23 20-Jun-23	19-Jun-23 20-Jun-23	116							
Internal Architect		1		45.1%	64	01-Eeb-23		01-Feb-23 A	31-Har-23	08-Mar-23	22-Aug-23	01-Feb-23	24-Mar/23	115			+++				
DC.83.1550	Architectural Works (internal)	48	5	45.1%	33%	01-Feb-23		01-Feb-23 A	31-Har-23		22-Aug-23	01-Feb-23	24-Mar-23	115							
DC.83.1560	Architectural Works for CLP Transformer Room (Internal)	42	1	53.49%	100%	01-Feb-23		01-Feb-23 A	22-Har-23	09-Mar-23	31-b/ar-23	01-Feb-23	15-Feb-23	a *			4		÷	1111	
Construction of	f Underground Utilities			DN-				18-Sep-23	30-Oct-23	09-Oct-23	17-Nov-23	14-Jun-23	25-Jul-23	16			/ +				
DC.S3.1600	Construction of Drainage and Severage System. Fire Services, Electrical & Plumping Undergound Utilities	32	2	DN-	0%			18-Sep-23		09-Oct-23		14-Jun-23	25-Jul-23	16			<u> </u>				
	Ige Digestion System			97.68%		24-Jun-22		24-Jun-22 A	30-Dec-23	18-Dec-23	30-Dec-23	24-Jun-22	29-Nov-23	0							
DC.S3.1700	Construction of Temporary Studge Digestion System 18C	88	3	100%		24-Jun-22	10-Oct-22	24-Jun-22 A	10-Oct-22 A			24-Jun-22	10-001-22			.					
DC.S3.1710 DC.S3.1720	Temporary Row Diversion and isolate existing perceive studge digestor and retovant buildings Removal of Temporary Studge Digestion System	8	1	100%	100%	11-Oct-22	20-Oct-22	11-Oct-22 A 18-Dec-23	20-0ct-22 A	18-Dec-23	20 Dec 22	11-Oct-22	20-Oct-22 29-Nov-23	0						0 I I I	
	Removal of Temporary Sludge Digestor System Clearance at the area of Proposed Preliminay Treatment Facilities	10	0	0%	05	20-Oct-22	24-Nov-22	18-Dec-23 20-Oct-22 A	30-Dec-23* 24-Nov-22 A	18-D60-23	30-060-23	13-Nov-23 20-Oct-22	29/N09/23	0							
Demolition wor				100%		20-0:0-22	24140V-22 24 Nov-22	20-001-22 A	24-Nov-22 A			20-001-22	09/Dec-22		21.12						
DC.S3.2010	Ks Demolition of existing Aerobic Studge Digestor	29	0	100%	100%	21-Oct-22	24-Nov-22 24-Nov-22	20-061-22 A 21-061-22 A	24-Nov-22 A 24-Nov-22 A			21-0c1-22 21-0c1-22	09-Dec-22 09-Dec-22			-				n t t	
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		+						
DC.S3.2030	Demolition of existing Gense: Room	28	0	100%	100%	21-Oct-22	24-Nov-22	21-0st-22 A	24-Nov-22 A			21-Oct-22	09-Den-22								
DC.S3.2040	Disconnecting data link of removed existing equipment from the existing SCADA system	7	0	100%	100%	20-Oct-22	26-Oct-22	20-0ct-22 A	26-0ct-22 A			20-Oct-22	26-Oct-22								
HASE 3 - Con	struction of Preliminary Treatment Facilities			53.12%		12-Jul-21		12-Jul-21 A	06-Aug-24	28-Feb-23	06-Aug-24	12-Jul-21	23-Apr-24	0					7		
	f Preliminary Treatment Facilities			53.31%		12-Jul-21		12-Jul-21 A			02-Aug-24	12-Jul-21	19-Apr-24	0	· · · · · · · · · · · · · · · · · · ·				7		
	brication and Delivery of Najor E&M Equipment			61.25%		12-Jul-21		12-Jul-21 A	10-War-24	21-Mar-23	08-Jun-24	12-Jul-21	14-Dec-22	80	1 1 1 1						
DC.S3.3005a	Tendering of Subcontrator	45	0	100%	100%	12-Jul-21	25-Azg-21	12-Jul-21 A	25-ALg-21 A			12-Jul-21	25-Aug-21		-						
DC.S3.30055	Equipment Submission and Approval	544	0	83.09% 0%	50%	03-Dec-21		03-Dec-21 A 01-Jun-23	30-Way-23* 01-Dec-23	21-Mar-23 14-Oct-23	20-Jun-23 11-Feb-24	03-Dec-21	14-Dec-22	21		<u> </u>					
DC.S3.3015	Suprag	1	0	0%	0%			01-Aug-23*		02-Dec-23				72							
DC 83.3025	Perstock	1	0	0%	0%			01-Aug-23*		02-Dec-23				123							
DC.S3.3035	Mechanical Bar Screen - Coarse Screen	1	0	0%	0%			01-Aug-23*			02-Dec-23			123			6				
DC:S3.3045	Screw Conveyor	1	a	0%	6%			01-Aug-23*		02-Dec-23				123 *							
DC.S3.3055	Sonew Compactor	1	9	0%	6%			01-Aug-23*	01-Aug-23	02-Dec-23	02-Dec-23			123			H				
DC.S3.3065	Submenible Pump	1	0	D%	0%			01-Aug-23*			02-Dec-23			123 *			H			1.1.1.	
DC.S3.3075	Submonible Ja: Mixar	1	0	0%	0%			01-Aug-23*			02-Dec-23			123			H				
DC.S3.3085	Gri Panç	1	0	0%	0%			01-Aug-23*			02-Doc-23			123			H				
DC.S3.3095 DC.S3.3105	Grit Classifier & Grit Mixer Mechanical Filter Mean	1	0	0%	0%			01-Aug-23* 01-Aug-23*			02-Dec-23 02-Dec-23			123 *			H				
DC.S3.3115	Lifing Appliance	1	0	0%	0%			01-40g-23 03-Jul-23*			06-Dec-23			156			1				
DC.S3.3125	OI Skimmer Pump	1	0	0%	0%			01-Auc-23*		02-Dec-23				123 *				-			
DC.S3.3135	Decidorization Unit (DOUr)	1	a	0%	0%			01-Aug-23*	01-Aug-23	02-Dito-23	02-Dec-23			123 *	11 : [: [211]					e E E	
DC.S3.3145	EV Switchtourd/MCC	1	0	D%	0%			01-Aug-23*			13-Dec-23			134							
DC.S3.3155	VSD	1	0	DN-	0%			01-Aug-23*	01-Aug-23		13-Dec-23			134			H			(1 L	
DC.S3.3165	UPS with Isolation Transformer	1	0	0%	0%			02-Ocl-23*			11-Fob-24			132 *							
DC.S3.3175	PLC Parel	1	0	0%	0%			01-Dec-23*		06-Feb-24				87 *				-			
DC.S3.3185	Instrumentation	1	0	0%	0%			01-Jun-23* 02-Jun-23	01-Jur-23 09-Feb-24	14-Oct-23 15-Oct-23	14-0ct-23 09-May-24			135 *				_		(1 L	
DC.S3.3195	Stopleg	125	Ð	0% 0%	03,			02-Jun-23 02-Aug-23	09-heb-24 04-Dec-23		09-May-24 05-Apr-24			123							
DC.S3.3205	Persitok	128	0	DN-	0%			02-Aug-23 02-Aug-23	04-Dec-23		06-Apr-24			123							
DC.S3.3215	Machanical Bar Screen - Coarse Screen	125	0	DN-	034			02-Aug-23			05-Apr-24			123 '					1	1-1-1-	
DC.S3.3225	Screw Conveyor	125	0	D%	0%			02-Aug-23			05-Apr-24			123							
DC.S3.3235	Screw Compactor	125	0	DN-	0%			02-Aug-23	04-Dec-23	03-Dec-23	05-Apr-24			123 *	11			-			
DC.83.3245	Submersible Pump	125	0	0%	0%			02-Aug-23		03-Dec-23				123 *						(i i i	
DC.S3.3255	Submersible Jet Mixer	125	0	0%	0%			02-Aug-23		03-Dec-23				123 *						J. J. L.	
DC.\$3.3265	Grit Punç	125	0	0%	0%			02-Aug-23			05-Apr-24			123 *						(1.1.1.)	
DC.S3.8275	Grit Classifier & Grit Mixer	125	0	0%	0%			02-Aug-23		03-Dec-23				120				3		(i i i	
DC.S3.3285 DC.S3.3295	Mechanical Filter Mesh Lifting Appliance	125	0	DN- DN-	0%			02-Aug-23 04-Jul-23		03-Dec-23 07-Dec-23				123 ^ 156 ^							
DC:S3.3295 DC:S3.3305	Di Skimmer Punp	150	0	DN-	0%			04-Jui-23 02-Aug-23		07-Dec-23 03-Dec-23				136 123						(1 1 İ.)	
DC.S3.3305 DC.S3.3315	Deadwization Unit (2001)	120	0	DN-	0%			02-Aug-23 02-Aug-23		03-Dec-23				123 1	+					4-4-4-	
DC.83.3315 DC.83.3325	LV Switchosard/MCC	125	0	0%	0%			02-Aug-23		14-Dec-23				134 *	11		+			(1.1.1.)	
		-													C11.1				Devision	Chec	
Prir	nary Baseline	DC/201	9/07 OU	JTLYING I	SLANDS	SEWER	AGE STAC	GE2 - UPG	RADING	OF CHEU	ING CHA	U SEWAC	E TREAT	MENT AND D	ISPOSAL FACI	LITIES	Date		Revision		
Act	ual Work						REVISED	PROGR	AMME -	REV. 2	2 (28 Fe	ebruary 2	023)				30-Nov-2		/ 20	JL	CL
	maining Work									8 of 13)	- (31-Dec-2		/. 21	JL	CL
	including train	1							(r dye	0 01 10)							28-Feb-23	3 Rev	1.22	JL	CL
	inal Remaining Made																				
Crit	tical Remaining Work seline Milestone																				



ty ID	Activity Name	Orl. Dur (d) TRA (d)	Time Expeed %	Actual Actual Start Workdone %	Actual Finish Early Start	Early Finish	Late Start Late F	hish Early Start (20)	Rev. Early Finish (Rev. 20)	Total Amended Float Activities	d 2021 2022 S Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 U	2023	2024	2025	2026 2
DC.\$3.3335	V80	125	0	0%	0%	02-Aug-23	04-Dec-23	14-Dec-23 16-A	n-24		134 *					-
DC.S3.3345	UPS with Isolation Transformer	65	0	0%	0%	03-0ct-23	06-Dec-23	12-Feb-24 16-A			132 *					
DC.S3.3355	PLC Parel	70	9	0%	03,	02-Dec-23	09-Feb-24				67 *		-			
DC.S3.3365	Instrumentation	195	0	D%	0%	02-Jun-23	03-Dec-23				135					
Deilvery				D%		04-Dec-23	10-Har-24	D8-Apr-24 08-Ju			90					
DC.S3.3375	Sioping	30	0	D%-	0%	05-Dec-23	03-Jan-24	D8-Apr-24 05-M			123					
DC.S3.3385 DC.S3.3395	Perside	30	0	0%	0%	05-Dec-23	03-Jan-24	D6-Apr-24 05-M			123 *					
	Mechanical Bar Screen - Coarse Screen	30	0	0%	0%	05-Dec-23	03-Jan-24 03-Jan-24	06-Apr-24 05-M			123					
DC.S3.3405 DC.S3.3415	Screw Conveyor Screw Consector	30	0	0% 0%	0%	05-Dec-23 05-Dec-23	03-Jan-24 03-Jan-24	06-Apr-24 05-M 06-Apr-24 05-M			123 *					
DC \$3.5415	Softwick Comparison	30	0	0%	0%	05-Dec-23	03-Jan-24				123					
DC.S3.3425	Submersible Jet Miter	30	0	0%	0%	05-Dec-23 05-Dec-23	03-Jar-24	D6-Apr-24 D5-M			123					
DC.S3.3435	Grit Pump	30	0	0%	0%	05-Dec-23	03-Jan-24	D6-Apr-24 05-M			123		-			
DC.S3.3455	Grit Classifer & Gril Mixer	30	- 6	D%	0%	05-Dec-23	03-Jan-24	D6-Apr-24 05-M			123					
DC 813465	Mechanical Filter Mesh	30	- 0 - 0	0%	0%	05-Dec-23	(13-Jan-24				123					
DC.83.3475	Lifting Applance	30	0	0%	0%	06-Dec-23	04-Jan-24				156		-			
DC.83.3485	OI Skimmer Pump	30	0	0%	0%	05-Dec-23	03-Jan-24				123 *		-			
DC S13495	Deadorization Unit (DOU')	30	0	0%	0%	05-Dec-23	03-Jar-24				123 *		-			
DC.S3.3505	LV Switchcoard/MCC	30	0	DN.	0%	05-Det-23	03-Jar-24	17-Apr-24 16-M			134 1					
DC.S3.3515	VSD	30	0	D%	0%	05-Dec-23	03-Jar-24	17-Apr-24 16-M			134 ^					
DC.S3.3525	UPS with Isolation Transformer	30	0	DN-	034	07-Dec-23	05-Jar-24	17-Apr-24 16-M			132					
DC.S3.3535	PLC Parel	30	0	DS-	03	10-Feb-24	10-Har-24	17-Apr-24 16-M			67					
DC.S3.3545	Instrumentation	30	0	0%	0%	04-Det-23	02-Jan-24	17-Apr-24 16-M			135 *		-4			
Civil & Structural				18.03%	25-Nov-22	25-Nov-22 A	04-May-24	28-Feb-23 04-M		2 20-Jan-24	0				(1 1 1 I)	
DC.83.3020	Pre-boring Works for Sheet Pile Wall Installation	113	0	80.18%	51% 25-Nov-22	25-Nov-22 A	25-Apt-23				0 *	- I I I I I I I I I I I I I I I I I I I	⊨			
DC.83.3040	Installation of Sheet File Wall	24	0	0%	0%	31-Mar-23	03-May-23	31-Mar-23 03-M	w-23 09-Feb-2	3 27-Mar-23	0 .	-11 - 12 14 14 - 14 14	+=			
DC.S3.3050a	Excavation to +2.5mPD	7	0	0%	0%	04-Vay-23	11-May-23				0 ^		<u>\-</u> ц			
DC.SS.3050a10	Installation of 1st Wailing & Struts	14	0	D%.	0%	06-Vay-23		D6-May-23 22-M	vy-23		e ^		24			
DC.S3.3050a20	Excevation to +0.5mPD (approx. 50m3 rock excevation)	7	0	D%-	0%	23-Vey-23	31-h/ay-23	23-May-23 31-M	vy-23		0 '		19111		<u>n tranic</u>	
DC.53.3050a30	Installation of 2nd Wailing & Struts	14	0	0%	0%	01-Jun-23	18-Jur-23	01-Jun-23 16-Ju	n-23		0.					
DC.83.3050a40	Excavation to -3 5mPD (approx. 1030m8 rock excavation)	18	0	0%	0%	17-Jun-23	07-Jul-23	17-Jun-23 07-Ju	-23		g •					
DC.83.3050a50	Installation to 3rc Walling & Struts	14	0	0%	0%	08-Jui-23	24-Jul-23		-23		g •					
DC.83.3050a60	Excavation to -5mPD (approx. 950m3 rock excavation)	18	0	0%	0%	25-Jul-23	11-Aug-23				0 .					
DC.S3.3050a70	Installation to 4th Walling & Struts	11	0	0%	0%	12-Aug-23	24-Aug-23	12-Aug-23 24-Au	g-23		0 *		1 2 1			
DC.SS.3050a60	Excevation to -3.075mPD and Blinding Layer (approx. 950m3 rock excension)	18	0	0%	0%	25-Aug-23	12-Sep-23				0 ^		╷╷┾╄╝║║			
DC.SS.3060	Plate Losd Test (Totel 3 nos.)	5	0	0%	0%	13-Sep-23	17-Sep-23				a ^					
DC.SS.3080	Construction of File Cap (Grid E to Grid H) (1200m3 6 pours)	30	0	0%	0%	28-Sep-23		28-Sep-23 04-N		3 27-Oct-23	0 1		Ŋ ĿĿĿ			
DC.53.3080a	Removal of 4th Walling and Shuls	6	0	DS-	0%	06-\\o+-23		08-Nov-23 11-N			0 '		J. J. J. J. J. B. J.		بالمسلم المالي	
DC.S3.3083b	Construction of File Cap (Grid A to Grid E) and R.C. Wall to -2.5mPD (Grid E to Grid H) (920m3, 5 pours)	25	0	0%	0%	13-\\or-23	11-Dec-23				0 .					
DC.83.3080c	Removal of Srd Wailing and Struts	8	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-Det-23	11-Jan-24	19-Dec-23 11-Ja			0 .					
DC.S3.3080e	Removal of 2nd Walling and Struts	6	0	0%	0%	12-Jan-24	18-Jar-24	12-Jan-24 18-Ja			0					
DC.S3.3080f	Construction of RC Wall (from +0.5mPD to +2.5mPD;	18	0	0%	0%	19-Jan-24	08-Feb-24	19-Jan-24 08-Fe			0		4	E. II I. I. I. I	<u></u>	
DC.S3.3080g	Removal of 1st Walling and Stuts	6	0	0%	0%	09-Feb-24	19-Feb-24	09-Feb-24 19-Fe			0 .			E.		
DC.S3.3080h	Construction of RC Ground Stab (from +2.5mPD to +4.6mPD)	23	0	DS-	0%	20-Feb-24	13-Har-24	20-Feb-24 13-M			0 .					
DC.S3.3080i	Construction of RC Wall and MCC Room Stab (from +4.8mPD to +0.35mpD)	23	0	0% 0%		14-Mar-24	10-Apr-24	14-Mar-24 10-A		0 00 1 . 21	0 . 0 .		1			
DC.S3.3100 E&M Works	Construction of RC Wall and Roof Stab (from +9.25 to +13.58)	23	0	0%	0%	11-Apt-24 05-Wex-24	04-May-24 02-Aug-24	11-Apr-24 04-M 08-May-24 02-Ap			0 .					
DC.S3.3120	E&W. Mechanida Installation (Mixers, Intel Pumps, Gritnemoval system, DO systems and etc.)	48	2	0%	0%	06-Vay-24	02-409-24	06-May-24 03-Ju			0		· · · · · · · ·			
DC.S3.3120a	Each Mechanica Installation (matcher inter Policite, entren oral system, consystems and exc) Electrical Installation (Cable, Instrument PLC Planel, UVSB, etc)	40	2	0%	0%	05-Wsy-24	21-Jur-24	17-May-24 03-Ju			12 *					
DC.53.3120b	Installation of BS Equipment	40	2	0%	0%	18-Vsv-24	2 1-301-24 11-Jur-24	08-Jup-24 03-Ju			22 *			+9		
DC.S3.3123510	Installation of Lifting Appliance	25	0	0%	0%	18-989-24	11-Jur-24				22 *					
DC.S3.3130a	SCADA System Site Acceptance Test (Prese 3 PTF Construction)	30	0	0%	0%	14-98y-24	12-Jur-24	04-Jun-24 03-Ju		4 20-Feb-24	21					
DC.53.3130b	SCADA System Commissioning Test (Prase 3 PTF Construction)	30	0	0%	0%	13-Jun-24	12-Jul-24	04-Jul-24 02-Au			21	╶╢╸┽╺┢╺╠╡╢┽╴┥╸┽┞┝╴	+++++++++			
DC.S3.3143b	System Commissioning Test	30	0	0%	0%	04-Jul-24	02-Aug-24				0	- 1 : I		H		
	ural Works			0%		06-Vay-24	17-Jul-24	23-May-24 02-A			14					
DC.53.3110	Architectural Works (Internal)	58	2	0%	0%	06-Way-24		23-May-24 02-A			14					
Temporary Flow				0%		14-Mar-24	06-Aug-24				0					
DC.S3.1550a	Installation of Temporary Sludge Thiokening System	92	8	0%	0%	19-Mar-24	22-Jul-24	08-Apr-24 06-A		3 10-Apr-24	13		1 11 -			
DC.S3.3150	Temporary WAS Pipe Construction from MBR to Sludge Digastor Building with temp pre-thickening system	23	2	0%	0%	14-Mar-24	12-Apr-24	08-May-24 03-Ju	n-24 02-Dec-2	3 25-Dec-23	42		-	L. 🛤		
DC.S3.3160	Temporary severage pipe from existing manhole FMH7000149 to manhole FMH21 to isolate inlet Chamber	42	3	0%	0%	06-Vay-24	28-Jur-24	09-May-24 03-Ju			3					
DC.S3.3170	Temporary Row Diversion to isolate existing onel minary beatment system	2	1	DS-	03.	03-Aug-24	06-Aug-24	03-ALg-24 06-A			0			-		
&M Works - 3	D-month performance verification (At least 9 months before End of S3)			D%		07-Aug-24	07-May-25	07-Aug-24 07-M		4 18-Jan-25	0				TT	
C S3.3180	32-month performance verification (At least 9 months before End of S2) (Period from 6th to 9th month)	274	0	D%	0%	07-Aug-24	07-May-25	07-ALg-24 07-M	vy-25 24-Apr-2	4 19-Jan-25	0				* • • • • • • • • • • • • • • • • • • •	1.1
onstruction o	f Underground Utilities			D%		06-Way-24	22-Jur-24	16-May-24 03-Ju			a	📕 : :				
C S3.3250	Construction underground utilities for MBR Treatment Facilities and Perliminary Treatment Facilities	35	2	D%	0%	06-Vey-24	22-Jur-24	16-May-24 03-Ju	-24 22-Jan-2	4 11-Mar-24	a					
HASE 4 - Den	nolition of existing Preliminary Treatment System			DN-		07-Jun-24	18-OcI-24	20-Jin-24 09-N	w-24 08-Feb-2	4 09-Jul-24	22					
IC 53.4010	Demolition of existing inlet pumping station, preliminary treatment facilities & primary sedment tank	24	0	0%	0%	07-Aug-24	03-Sep-24	07-ALg-24 03-St	o-24 24-Apr-2	4 15-Jun-24	0			• • • • • • • • • • • • • • • • • • •		
DC 53.4020	Modification of Inlet Chamber	55	4	DS-	0%	07-Aug-24		29-ALg-24 09-N			19		† * * † † † 		1-1-1	
	D 1												Date	Revision	Chec A	Approve
	nary Baseline	DC/201	19/07 Ol	JTLYING	ISLANDS SEWER	AGE STAGE2 - UPO	RADING	OF CHEUNG	CHAU SEW	AGE TREAT	MENT AND I	DISPOSAL FACILITIES	30-Nov-22	Rev. 20	JL CL	
Act	ual Work				1	REVISED PROGR	RAMME -	REV. 22 (2	8 Februar	v 2023)						
Ro	maining Work							e 9 of 13)		,,			31-Dec-22	Rev. 21	JL CL	
							(rage	500 (0)					28-Feb-23	Rev. 22	JL CL	
	ical Remaining Work															
🔷 Bas	eline Milestone															



	Activity Name	Orl. Dur (d)	TRA (d)	Time Elapsed X	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Lite Start	Lite Finish	Early Start (Rev. 20)	Early Finish Total Amende (Rev. 20) Float Activitie	d 2021 2022	2023 2024	2025 2026 2
DC S3.4025	Notification to CLP for Demolition of Existing Transformer House	1	0	0%	Workdone % 0%			07-Jun-24	07-Jur-24	20-Jin-24	20-Jun-24	20) 06-Feb-24	Early Finish Total Amende (Rav. 20) Float Activitie 10-Feb-24 13	IS Q1 02 03 Q4 01 02 Q3	24 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q	24 01 02 03 04 01 02 03 04 1
DC 834030	Demolition of existing Transformer House	30	3	0%	0%			07-Aut-24	25-Sep-24		09-0::+24	24-Apr-24	14-lin-24 11			
C 53.4031	Ground Investigation (7 nos. 1 nio. 1 term)	22	2	0%	0%			07-Aug-24	03-Sep-24	07-460-24	03-Sep-24	18-May-24	15-Jun-24 0			
C S3.40/0	Disconnecting data link of removed existing equipment from the existing SCACA system (Phase 4 Demolition Existing PTS)	4	3	DN-	0%			20-Sep-24	26-Sep-24	03-Nov-24	09-Nov-24	03-Jul-24	09-Jul-24 44			
HASE 5 - Cor	nstruction of Remaining Buildings		-	42.51%		12-Jul-21		12-Jul-21 A	13-May-25	11-Jun-22	13-May-25	12-Jul-21	02-00-25 0	a la contra de la co	n ha na shekara na shek	• • • • • • • • • • • • • • • • • • •
	of WAS Storage Tank of Sludge Centrifuge House			05.				02-Jan-24	30-Nov-24	24-Jan-24	23-Dec-24	30-Nov-23	07-Nov-24 19		· \	
Civil & Structural				DN-				02-Jan-24	30-Nm-24	24-Jan-24	23-Der-24	30-Nov-23	07-Nov-24 19			
DC.53.3190	Piling works for pre-bored sockel H-piles (14 nos. dis.610 x 14m, 1 learns)	25	4	DN-	0%			02-Jan-24	05-Feb-24	24-Jan-24	01-Mar-24	30-Nov-23	06-Jan-24 19		\	
DC.53.3200	Installation of sheet piles and Proof Drill	30	2	DN-	0%			08-Feb-24	16-Har-24	02-Mar-24	12-Apr-24	08-Jan-24	22-Feb-24 19			
DG 53 3201	Pile Loading Test of Tension Pile	6	1	0%	0%			15-Mar-74	25-Her-24	13-Apr-24	20-Apr-24	23-Feb-24	P'-Mir-24 19			
DC.83.3210	Excavation and installation of ELS for WAS Storage Tank	60	2	0%	0%			28-Mar-24	13-Jun-24	22-701-24	06-Jul-24	02-Mar-24	20 May 24 19			
DC.\$3.3220	Construction of RC Structure (below ground)	70	1	0%	0%			14-Jun-24	05-Sep-24	08-Jul-24	28-Sep-24	21-May-24	13-Aup-24 19			
DC.\$3.3230	Removal of formworks, falseworks, application of valerphoning, backfilling and removal of ELS	12	2	0%	0%			08-Sep-24	23-Sep-24	30-Sec-24	17-0ct-24	14-Aug-24	28-Aug-24 19			
DC.SS.3240	Construction of RC Structure (above ground)	55	2	DN-	0%			24-Sep-24	30-Nov-24	18-Oct-24	23-Dec-24	30-Aug-24	07-Nov-24 19			
	of Effluent Reuse Building			42.72%		12-Jul-21		12-Jul-21 A	06-May-25	23-Apr-23	07-May-25	12-Jul-21	24-Feb-25 1			
Procurement, Fa	abrication and Delivery of Major E&M Equipment	45		50.68%	4.0.000	12-Jul-21 12-Jul-21		12-Jul-21 A	29-Sep-24	23-Apr-23	22-Nov-24	12-Jul-21	29-Aug-24 54			
DC.83.51258 DC.83.51258	Tendening of Subcontrator Equipment Submission and Approval	45	0	100% 80.91%	40%	12-JUI-21 28-Aug-21	25-Aug-21	12-Jul-21 A 26-Auc-21 A	25-ALg-21 A 07-Jul-23	23-Apr-23	00.0	12-Jul-21 26-Aut-21	25-Aug-21 08-Jun-23 54			
DC.83.51230 DC.83.5130a	Procurement	90	0	0%	0%	20-9409-2		08-Jul-23	05-Oct-23	31-ALg-23		07-Jun-23	04-Sep-23 54			
DC.83.5130b	Fishisation	240	0	0%	0%			06-0ct-23	03-001-23 01-Jur-24	29-Nov-23	25-Jul-24	05-Sep-23	01-May-24 54			
DC.83.5130c	Delivery	120	0	0%	0%			02-Jun-24	29-Sep-24	26-Jul-24	22-Nov-24	02-May-24	29-Aug-24 54			
Civil & Structural		11.9	9	08	0.4			04-Sep-24	19-Dec-24	05-Sep-24	20-Dec-24	17-Jun-24	12-0ct-24 1		/ / / / /	
DC 53.5140a	Installation of pipe pile yell of ELS (55 nos. die323 x 8m. 1 teem)	12	1	0%	0%			04-Sep-24	19-Seo-24	05-Sec-24	20-Sep-24	17-Jun-24	12-Jul-24 1			
DC.53.5142b	Proof Onli	7	2	DS-	0%			20-Sep-24	30-Sep-24	25-Sep-24	26-3ep-24	11-Jul-24	24-30-24 4			
DC.53.5150	Grout Curlain Works	11	1	DS-	0%			20-Sep-24	04-Oci-24	21-Sep-24	05-Oct-24	11-Jul-24	24-Jul-24 1			 -
DC.83.5160	Installation of ELS and Excavation for besement(970m3 exca, 1(earr)	11	1	0%	0%			05-0cl-24	19-OcI-24	07-Oct-24	21-0cl-24	25-Jul-24	07-Aug-24 1			
DC.83.5170	Construction of RC structure (below ground, 437m3)	22	1	0%	0%			21-0ct-24	15-Nov-24	22-Oct-24	16-Nov-24	08-Aug-24	04-Sep-24 1			
DC.\$3.5180	Removal of formetorks, faiseworks, application of eaterproofing, backfilling and removal of ELS	5	1	0%	0%			16-Yor-24	22-Nov-24	18-Nov-24	23-Noy-24	05-Sep-24	1'-Sep-24 1			
DC.S3.5190	Construction of RC Structure (above ground, 213m3)	22	1	0%	0%			23-\\or-24	19-Dec-24	25-Nov-24		12-Sep-24	12-0ct-24 1			•
E&M Works				0%				22-Vor-24	06 May 25	23-Nov-24	07-May-25	12-Sep-24	24-Feb-25 1			* <u>***</u> *
DC.SS.5210	E&MLVSB and BS Installation (UV system, Chemical tanks and dosing system and etc.)	67	ő	0%	0%			22-\\o ₇ -24	20-Fet-25	23-Nov-24	21-Feb-25	12-Sep-24	07-Dec-24 1			
DC.S3.5223a	SCADA System Site Acceptance Test (Prese 6 Effuent Reuse Construction)	62	0	DS-	0%			07-Jan-25	07-Var-25	08-Jan-25	08-Mar-25	25-Oct-24	26-Dec-24 1			
DC.S3.5220b	SCADA System Commissioning Test (Phase 5 Effuent Reuse Construction)	60	0	0%	0%			05-Mar-25	06-May-25	09-Mar-25	07-Nay-25	27-Dec-24	24-Feb-25 1			
DC.83.5233b	System Commissioning Test	30	0	0%	0%			07-Apr-25	06-May-25	08-Apr-25	07-May-25	27-Dec-24	24-Feb-25 1			
Internal Architect	tural Works			0%				20-Dec-24	10-Apr-25	15-Jan-25	07-May-25	14-Oct-24	01-Feb-25 19			
DC.83.5200	Architectural Works (Internal)	84	6	0%	0%			20-Dec-24	10-5pr-25		07-May-25	14-Oc1-24	01-Feb-25 19		\ +-	
Construction o	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			
Procurement, Fa	abrication and Delivery of Major E&M Equipment	45		50.25%		12-Jul-21		12-Jul-21 A	09-Oct-24	14-May-23	23-Dec-24	12-Jul-21	08-Sep-24 75			
DC.S3.5005a DC.S3.5005b	Tentering of Subcontrator Equipment Submission and Acoustal	45	0	100%	40%	12-Jul-21 26-Aup-21	25-Aug-21	12-Jul-21 A 26-Aup-21 A	25-Aug-21 A 17-Jul-23	14-May-23		12-Jul-21	25-Aug-21 16-Jun-23 75		╺┓┛┛╼╸╸╴╂╵╴┊╸┟╴┈┾╴┝╴	
DC.S3.50055 DC.S3.5010a	Equipment Submission and Approval Procurement	45	0	79.74%	0%	28-Aug-21		26-Aug-21 A 18-Jul-23	17-Jul-23 31-Aug-23	14-May-23 01-Oct-23	30-Sep-23 14-Nov-23	26-Aug-21 17-Jun-23	16-Jun-23 75 31-Jul-23 75	_		
DC.83.5010a	Fabrication	42	0	0%	0%			01-Sep-23	12-Apr-24	15-Nov-23		01-Aug-23	12-Mar-24 75			
DC.S3.5010c	Deirery	150	0	0%	0%			13-Apr-24	09-Cc1-24	27-Jun-24		13-Mar-24	08-Sep-24 75			
Civil & Structural	Works	100		0%	0.4			28-Aut-24	23-Dec-24	28-44.0-24	23-Dec-24	08-Jun-24	21-Nov-24 0		/	
DC.\$3.5020a	Piling works for pre-bored sock of H-piles (24 nos, dis610 x 15n, 1team)	22	1	0%	0%			28-Aug-24	21-Sep-24	28-AL9-24	21-Sep-24	08-Jun-24	11-Jul-24 0			
DC.S3.5030	Installation of size cile well of ELS (80 nos. dis823 x 6m, 1 teams)	12	1	0%	0%			10-Sep-24	25-Sep-24	10-Sep-24	25-Sep-24	29-Jun-24	27-Jul-24 0			
DC.\$3.5040	Great Curtain Works	9	1	0%	0%			26-Sep-24	08-Oct-24	26-Sep-24	08-0ct-24	29-Jul-24	17-Aug-24 0		- }	
DC.S3.5050	Excevation for purning tank (133m3 excel 1beam)	47														
		11	1	D%	0%			09-3ct-24	23-Oc1-24	09-Oct-24	23-Oct-24	19-Aug-24	31-Aug-24 0		- I I I I I I I I SI SI SI SI SI SI SI SI	
DC.S3.5080	Construction of RC structure (balow ground, 687 m3)	11 22	1	D%- D%-	0% 0%			09-0ct-24 24-0ct-24		09-Oct-24 24-Oct-24	23-0ct-24 19-Nov-24	19-Aug-24 02-Sep-24			1 L L	
DC.S3.5060 DC.S3.5070			1 1 1						23-Oci-24				31-Aug-24 0			
	Combruior of RC situation: (balance ground, BRT m3) Remonsi of formeenks, fathewentra, application of osalarproping, backfilling and removal of ELS Combruiction of RC Situation (above) ground, 1317 m3)	22	1 1 1 1	D%	0%			24-Oct-24	23-OcI-24 19-Nov-24	24-Oct-24	19-Nov-24	02-Sap-24	31-Aug-24 0 30-Sep-24 0			
DC.S3.5070 DC.S3.5080 E&MWorks	Removal of formworks, falseworks, application of waterpropring, backfilling and removal of ELS	22 5 22	1 1 1	D% D% D% D%	0%			24-0cl-24 20-Nor-24	23-Oci-24 19-Nov-24 26-Nov-24 23-Doc-24 13-Way-25	24-Oct-24 20-Nov-24	19-Nov-24 26-Nov-24 23-Dot-24 13-May-25	02-Sap-24 02-Oci-24	31-Aug-24 0 30-Sep-24 0 09-Ocl-24 0			
DC.S3.5070 DC.S3.5080 E8M Works DC.S3.5100	Remonsi of Bornechs, laboenta, spilation of oxdepooling, taxkilling and removal of ELS Constexcion of RC Stockne balance ground, 1515 m3) F&AU VSB and SS Installation (sent Ruges of its auxiliaryequipment and Polymar perpendice system)	22 5 22 55	1 1 0	D% D% D% D%	0% 0% 0%			24-0cl-24 20-Nor-24 27-Nor-24 24-Dec-24 24-Dec-24	23-Oct-24 19-Nov-24 26-Nov-24 23-Doc-24 13-May-25 04-Har-25	24-Oct-24 20-Nov-24 27-Nov-24 24-Dec-24 24-Dec-24	19-Nov-24 26-Nov-24 23-Doc-24 13-May-25 04-Mar-25	02-Stp-24 02-Dci-24 10-Oci-24 22-Nov-24 22-Nov-24	81-4ug-24 0 50:Sep-24 0 09-Oct/24 0 21:Nov-24 0 08-tgr-25 0 28-tgr-25 0			
DC.83.5070 DC.83.5080 E&M Works DC.83.5100 DC.83.5110a	Romond of Bornecks, Marcecks, application of websprooling, backfilling and removal of ELS Combrocking of RCS Backran Motor application (2017; m3) REV/LIVER and SS Insultation (cent Fugues at dis auxiliary equipment and Polymer progenetion system) SCACRS System SR Secondance Test (9) wave S School Constraints Construction)	22 5 22 55 30	1 1 1 0 0	0% 0% 0% 0% 0%	0% 0% 0% 0%			24-0cl-24 20-Vor-24 27-Vor-24 24-Dec-24 24-Dec-24 24-Dec-24	23-0ci-24 19-Nov-24 26-Nov-24 23-Doc-24 23-Doc-24 13-Way-25 04-Har-25 22-Jar-25	24-Oct-24 20-Nov-24 27-Nov-24 24-Dec-24 24-Dec-24 03-Feb-25	19-Nov-24 26-Nov-24 23-Doc-24 13-May-25 04-Mar-25 04-Mar-25	02-Sip-24 02-Oci-24 10-Oci-24 22-Nov-24 22-Nov-24 22-Nov-24	5'-4ug-24 0 5C:Sep-24 0 19:Oct/24 0 21:Nov-24 0 08:Apr-25 0 24:Jen-25 0 21:Oec-24 41			
DC.83.5970 DC.83.5960 E&M Works DC.83.5100 DC.83.5110a DC.83.5110b	Remonsi of Bornechs, laboenta, spilation of oxdepooling, taxkilling and removal of ELS Constexcion of RC Stockne balance ground, 1515 m3) F&AU VSB and SS Installation (sent Ruges of its auxiliaryequipment and Polymar perpendice system)	22 5 22 65 30 30	1 1 0	0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0%			24-0cl-24 20-Vor-24 27-Vor-24 24-Dec-24 24-Dec-24 24-Dec-24 23-Jan-25	23-Oct-24 19-Nov-24 26-Nov-24 23-Doc-24 13-May-25 04-Har-25	24-Oct-24 20-Nov-24 27-Nov-24 24-Dec-24 24-Dec-24	19-Nov-24 26-Nov-24 23-Doc-24 13-May-25 04-Mar-25	02-Sip-24 02-Cci-24 10-Cci-24 22-Nov-24 22-Nov-24 22-Nov-24 22-Nov-24	81-4ug-24 0 50:Sep-24 0 09-Oct/24 0 21:Nov-24 0 08-tgr-25 0 28-tgr-25 0			
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DC 83.597 DC 83.597 DC 83.596 EAM Works DC 85.5100 DC 85.51100 DC 85.51120 DC 85.51120 DC 85.51120 DC 85.51220 DC 85.51220 DC 85.51220 DC 85.51220 DC 85.52420 DC 85.54200 DC	Remore of Democris Lakevices, application of subproteings and removal of BLS Constructions 1400 Statuto Island Status (Construction) SCADA System Constructions of the Status Construction) SCADA System Construction for the Status Construction SCADA System Construction for the Status Construction Status and Delay Status (Status Construction) Status and Delay Status (Status Construction) Status and Delay Status (Status Construction) Architection (Status Status Construction) Status and Delay Status (Status Construction) Procurement (St. Edupment Productions of Status Construction) Delay of Status Construct of Status (Status Construction) Delay Status (Status) Status Construction (Status Construction) Delay Status (Status Construction) Delay Status Construction (Status Construction) Delay Status Construction) Status Construction (Status Construction) Delay Status Construction) Delay Status Construction (Status Construction) Delay Status Const	22 55 55 33 35 35 35 35 35 35 35 35 35 35		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	01-Nov-21 01-Nov-21 09-Dec-21	AGE STAC	24-00-24 20-Vor-24 27-Vor-24 24-Dec-24 24-Dec-24 24-Dec-24 24-Dec-24 24-Dec-24 24-Dec-24 24-Dec-24 24-Dec-24 24-Dec-24 24-Dec-24 01-Nov-21A 01-Nov-21A 06-Dec-21A 36-Dec-21A 36-Dec-21 36-Dec-23 25-Sup-23 25-Sup-23 26-Sup-23 26-Sup-24 26-Sup-24 26-Sup-24 27-Vor-23 14-Jun-24	23-Oct-34 26-Nor-24 26-Nor-24 23-Soc-24 13-Nor-26 21-In-25 21-In-25 21-In-25 23-In-25 13-Nor-25 13-Nor-25 14-Apr-25 14-Apr-25 14-Apr-25 14-Apr-25 14-Apr-25 24-Sop-24 27-Sop-23 25-Sop-24 25-Sop-25 25-Sop-25 25-Sop-25 25-Sop-25 25-Sop-25 25-Sop-25 25-Sop-25 25-Sop-25 25-Sop-25 25-S	24-Oct-24 20-Nov-24 27-Nov-24 24-Dero-24 24-Dero-24 24-Dero-24 25-Mar-25 25-Mar-25 21-Jan 25 21-Jan 2	19-Non-24 26-Non-24 23-Doc-24 13-Non-25 04-Man-25 04-Man-25 03-Ap-25 03-Ap-25 03-Ap-25 03-Ap-25 13-Non-25 03-Ap-25	02-Stp-24 02-Oct-24 12-Oct-24 22-Nov-24 22-Nov-24 22-Nov-24 22-Dec-24 22-Dec-24 22-Nov-24 22-Nov-24 22-Nov-24 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 23-May-23 22-May-24 33-May-23 24-Apt-24 33-May-24 U SEWAC	5'.dup34' 0 0350.bt/4' 0 0350.bt/4' 0 0350.bt/4' 0 27.40x24' 0 27.40x24' 0 27.40x24' 0 27.40x25' 0 039.40x55' 0 27.40x25' 0 039.40x55' 0 27.40x26' 2 27.40x26' 0 07.40x27' 0 07.40x27' 0 27.40x26' 0 27.40x24' 0 27.40x24' 0 13.50x12 27.40x24' 0 27.40x24' 0 25.40x24' 0 27.40x24' 0 25.40x24' 0 27.40x24' 0 27.40x24'' 0 27.40x24'' 0 27.40x24'' 0 27.40x24'' 0 27.40x24'' 0 27.40x24'' 0 27.40x24'' 0 27.40x24''' 0 27.40x24'''''''''''''''''''''''''''''''''''	DISPOSAL FACILITIES	Date Revi 30-Nov-22 Rev. 20	JL CL



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outry as	Poenty many		THE AVE A	- Lapada A	Workdone %	Posta in Over	Provide Thinks					Early Start (Rev 20)		s Q1 Q2 Q3	04 01 02 03 0	4 Q1 Q2 Q3 Q4	Q1 Q2 Q1 Q4 Q1	02 03 04 01	02 03 04 01
DC.83.5240g	Procurement of FRP water tanks Exbrigation of FRP water tanks	150 200	0	0% 0%	0% 0%			30-Jun-23 27-Nov-23	26-Nov-23 13-Jur-24	07-Oct-23 05-Mar-24	04-Mar-24 20-Seo-24	30-May-23 27-Oct-23	26-Oct-23 99 13-May-24 99	_					
DC.83.5240i	Patrication of PRP water tanks Delivery of FRP enter tanks	200	0	0%	0%			27-307-23 14-Jun-24	21-Sep-24	21-Sep-24	20-580-24 29-Dec-24	14-May-24	2'-Aup-24 89	_					
DC.53.5240	Programment of sumps	150	0	D%	03			30-Jun-23	26-Nov-23	07-Oct-23	04-b/ar-24	30-May-23	26-Oct-23 99	-					
DC.53.5240k	Fabrication of pumps	210	0	DN-	0%			27-Nor-23	13-Jur-24	05-Mar-24	20-Sep-24	27-Oci-23	13-May-24 99						
DC.53.5240I	Delivery of pumps	100	0	D%	0%			14-Jun-24	21-Sep-24	21-Sep-24	29-Dec-24	14-May-24	21-Aug-24 99						
Civil & 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 sipe pile well 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	23-Oct-24	17-Jun-24	28-Jul-24 20						
DC.83.5260 DC.83.5270	Grout Curtain Works Installation of FLS and excavation for basement; (840m3 excav. fiteam)	9	1	0% 0%	0%			20-Sep-24 03-Oct-24	02-Oct-24 18-Oct-24	16-Oct-24 28-Oct-24	26-0ct-24 11-Nov-24	22-Jul-24 12-Aag-24	10-Aug-24 20 31-Aug-24 20						
DC.83.5260	Construction of RC structure (below ground, 512m3)	22	1	0%	0%			19-0ct-24	16-Oct-24 14-Nov-24	12-Nov-24	07-Dec-24	12-9439-24 02-Sep-24	31-W09-24 20 30-Sep-24 20	_			1.		
DC.53.5290	Removal of formeorks, fakeworks, application of ealerproofing, backfilling and removal of ELS	5	1	DN-	03			15-Nor-24	21-Nov-24	D9-Dec-24	14-Dec-24	02-Oci-24	08-Oct-24 20						
DC.53.5300	Construction of RC Structure (above ground, 326m3)	22	1	DN-	0%			22-Nor-24	18-Dec-24	16-Dec-24	14-Jan-25	09-Oci-24	06-Nov-24 20						
E&M Works				DN-				21-Nor-24	09-Apr-25	30-Dec-24	07-May-25	09-DcI-24	12-Mar-25 28						
DC.83.5320	E&HLVSB and 3S Installation (pumps and associated pipe works)	67	5	0%	0%			21-Nor-24	19-Feb-25	30-Dec-24	27-Mar-25	06-Oci-24	04-Jan-25 31						
DC.83.5330	Site Acceptance Test	30	0	0%	0%			01-Feb-25	02-Har-25	09-Mar-25		14-Dec/24	12-Jan-25 36						
DC.83.5340b	System Commissioning Test (Final Testing)	30	0	0%	0%			11-Mar-25 19-Dec-24	09-Apt-25	08-Apr-25	07-May-25 07-May-25	13-Jan-25	13-Mar-25 28						
DC 53 5310	Architectural Works (internal)	84	6	0%	0%			19-Dec-24 19-Dec-24	09-Apr-25 09-Apr-25	15-Jan-25	07-68y-25 07-68y-25	07-Nov-24	26-Feb-25 20 26-Feb-25 20	_					
-	A Dangerous Goods House	D4	a	DN.	0.54			26-Sep-24	26-Apr-25	10-0:0-24	13-May-25	17-Jun-24	29-Mar-25 17			/		*******	- fan an fan sef an se se s
DC.S3.5350	Installation of ELS and excavation for basement/45nos FSP1I x 9m, 70m3 exce, (team)	11	1	DN-	0%			25-Sep-24	10-Oci-24	10-Oct-24	24-0ct-24	17-Jun-24	29-Jun-24 11	-		/	- F		
DC.S3.5360	Construction of RC structure (below ground, \$4m2)	15	1	DN-	0%			12-0ct-24	02-Nov-24	25-Oct-24	15-Nov-24	02-Jul-24	05-Aug-24 11						
DC.93.5370	Backfilling to ground level and removal of ELS	8	1	0%	0%			04-Not-24	13-Nov-24	16-Nov-24	26-Nov-24	06-Aug-24	19-Aug-24 11				4		
DC.S3.5380	Construction of RC Structure (above ground, 21m3)	18	1	0%	0%			14-Nor-24	05-Dec-24	27-Nov-24	18-Dec-24	20-Aug-24	24-Sep-24 11						
DC.83.5380	Architectural Works (internal)	21	1	0%	0%			06-Dec-24	03-Jan-25	19-Dec-24	16-Jan-25	25-Sep 24	31-Oct-24 11 03-Eeb-25 11						
DC.S3.5400a DC.S3.5400b	E&H installation and testing DG inspection by FSD	45	2	0% 0%	0%			04-Jan-25 30-Mar-25	03-War-25 26-Apr-25	17-Jan-25 16-Apr-25	15-Mar-25 13-May-25	01-Nov-24 20-Mar-25	03-Feb-25 11 28-Mar-25 17	- 11					1.1.1.1.1
	Underground Utilities (Permanent pipeworks, Sewerage System, Road Drainage System)	25		0%	10.34			29-Feb-24	26-Apr-25 12-May-25	08-May-24	13-b/ay-25 13-b/ay-25	20-Mar-25 31-Oct-23	29-Mar-25 17 18-Mar-25 1			1/1		ł	
DC.S3.5410	Main sozass bateesn MBR & PTF	70	2	DS-	0%			29-Feb-24	29-h/ay-24	08-May-24		31-Oct-23	25-Mar-24 54	_					
DC.S3.5420	Main access batween PTF. Ellivent Reuse Building, FS Pumproom and Pumproom	55	5	0%	0%			15-0cl-24	23-Dec-24	09-Nov-24		10-Sep-24	21-Nov-24 22			- <u>}</u>			
DC.S3.5430	Main access bolycom Administration Building & Intel Chambor	55	2	0%	0%			04-Sep-24	15-Nov-24	22-Feb-25	07-May-25	17-Jun-24	28-Aug-24 138			/	- 		
DC.S3.5440	Main access between Sludge Centrifuge Building & Studge Digission Building	55	2	0%	0%			04-Sep-24	15-Nov-24	22-Feb-25	07-May-25	17-Jun-24	28-Aug-24 138				- - - + = 1		
DC.S3.5450	Permanent Row Diversion	4	1	0%	0%			07-Yay-25	12-h/ay-25	08-May-25	13-b/ay-25	14-Mar-25	19-Mar-25 1	_					
DC.S3.5470	Construction of EVA and Signage	58	2	0%	0%	15-Aug-22		04-Feb-25 15-Aup-22 A	04-Apr-25 02-Feb-25	01-Mar-25 11-Jun-22	29-Apr-25 13-May-25	29-Dec-24 31-Jul-22	26-Feb-25 25 02-Oct-25 100			/		4	
Sludge Dewate DC.S3.5460	ASA works of Studge Devisitering House	158	12	05.	0%	15-A0g-22		15-80g-22.8 08-Aut-23	02-Feb-25 14-War-20	08-Aug-23	13-68y-25 14-Mar-24	20-Jan-23	28-Aup-23 0						
DC.S3.5460s	Equipment Submission and Acoroval	397		13.62%	0%	15-Aug-22		15-Aup-22 A	10-5x1-2- 10-Sep-23		27-Dec-22	265460563	-252		-				
DC.S3.5470a	Procurement	1		100%		28-Dac-22	28-Dec-22	28-Dec-22 A	28-Dec-22 A			31-Jul-22	3'-Jan-23	-		<u>+</u>			
DC.S3.5470b	Fabrication	380		7.78%	0%	51-Jan-23		31-Jan-23 A	25-Jar-24	08-Jun-23	04-Ney-24	01-Feb-23	31-Dec-24 100						
DC.S3.5470c1	Delirery	59	0	0%	0%			28-Jan-24	24-Har-24	05-May-24	02-Jul-24	01-Jan-25	0'-Mar-25 100				╞╴╵╴╵┡╌╴	1.1	
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			1 1 4			
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 DC.S3.5480s3	Deconversioning of Existing E&M Equipment and MCC Installation of WCC for FS pumping station and Cabling Works	8	0	0% 0%	0%, 0%,			19-Jan-25 26-Jan-25	25-Jar-25 02-Feb-25	28-Apr-25 06-May-25	05-May-25 13-May-25	18-Sep-25 25-Sep-25	24-Sep-25 100 02-Oct-25 100	_				Ľ.	
Administration	Reliding			7.48%	0.9	30-Sec-22		30-5en-22 à	10-Feb-25	03. Jup.23	13-May-25	30-Sep-23	02-00F23 100 04-0F53 07						
DC.S3.5490	A&A works of Administration Building	224	16	0%	0%			28-0ct-23	19-Aug-24	31-Jan-24	21-Nov-24	27-Jun-23	17-Apr-24 78						
DC.S3.5500a	Procurement of EL Equipment	213	0	0.89%	30%	30-Sec-22		30-Sep-22 A	30-Apr-23	03-Jun-23	03-Aug-23	30-Sap-22	28-Dec-22 95		🙀				
DC.S3.5500b	Fabrication of EL Equipment	150	0	0%	0%			01-Hay-23	27-0cl-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%			28-0ct-23	24-Feb-24	31-Jan-24	29-May-24	27-Jun-23	24-Oct-23 85			· · · · · · · · · · · · · · · · · · ·	₽₩₩		
DC.S3.5500c	Procurement of Sankary Fitments	30	0	0%	0%			20-Aug-24	18-Sep-24	22-Nov-24	21-Dec-24	18-Apr-24	17-May-24 94	_					
DC.S3.5500e	Fabrication of Sen any Fitments Delivery of Sanitary Fitments	50	0	0% 0%	0%			19-Sep-24 08-Nor-24	07-Nov-24 17-Nov-24	22-Dec-24 10-Eeb-25	09-Feb-25 19-Feb-25	18-May-24 07-Jul-24	06-Jul-24 94 16-Jul-24 84	-1 : 1					1 1 1 1
DC.S3.5500r	Delivery of sandary Hittends BS Installation	12	2	0%	0%			18-Nor-24	21-Dec-24	10-Feb-25 20-Feb-25	19-Heb-25 26-Mar-25	17-Jul-24	10-JUI-24 84 20-Aug-24 75						
DC.S3.5600g2	Electrical Installation	25	2	0%	0%			18-\\o+-24	21-Dec-24	20-Feb-25	26-b/ar-25	17-Jul-24	20-Aug-24 75						
DC.S3.5500g3	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			11-11-11		1111	
DC.S3.5500h	Completion of all the works in the new control room	0	0	0%	0%				21-Dec-24		26-Mar-25		20-Aug-24 95		(
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	03-Apr-25	21-Aug-24	28-Aug-24 75		 		- F		
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 27.Fab.05 10						
A&A of existing DC.S3.5520	g outfall pumping station and header tank A&A works of existing outfall pumping station and header tank	60	2	0%	63,			04-Sep-24 04-Sep-24	01-May-25 18-Nov-24	17-Sep-24 17-Sep-24	13-May-25 30-Nov-24	17-Jun-24 17-Jun-24	27-Feb-25 12 16-Sep-21 11			\	and the second sec		
DC.S3.5530s	Adva vitinis of existing outsill pumping station and header tank Procurement	23	- 2	0%	0%			19-Nor-24	08-Dec-24	01-Dec-24	30-NOV-24 20-Dec-24	17-JU1-24 17-Sep-24	10-Sep-24 11 06-Oot-24 12						
DC.S3.5630b	Fabrication	64	0	D%	0%			09-Dec-24	10-Feb-25	21-Dac-24	22-Feb-25	07-Oci-24	09-Dec-24 12						
DC.S3.5530c	Delivery and Installation	23	0	DN-	0%			11-Fab-25	02-Har-25	23-Feb-25	14-b/ar-25	10-Dec-24	29-Dec-24 12						
DC.S3.5540	Testing and committe bring	60	0	0%	0%			03-Mar-25	01-May-25	15-Mar-25	13-May-25	30-Dec-24	27-Feb-25 12						
Modification of	f Emergency overflow chamber			0%				24-Aug-24	20-Apr-25	16-Sep-24	13-May-25	15-May-24	10-Mar-25 23			/		11 11	
DC.83.5550a	Procurement of E8M Equipment	30	0	0%	0%			24-Aug-24	22-Sep-24	16-Sep-24	15-0ct-24	15-May-24	13-Jun-24 23						
DC.S3.5550b DC.S3.5550c	Fabrication of E&M Equipment Delivery and Installation of E&M Equipment	120	0	0% 0%	0% 0%			23-Sep-24 21-Jan-25	20-Jar-25 19-Feb-25	16-Oct-24 13-Feb-25	12-Feb-25 14-blar-25	14-Jun-24 11-Dec-24	10-Dec-24 23 09-Jan-25 23			1			
DC.S3.5650c	Delivery and Installation of EX61 Equipment Testing and Commissioning	30	0	0%	0%			21-Jan-25 22-Mar-25	19-Heb-25		14-blar-25 13-blay-25	11-Dec-24 09-Feb-25	09-Jan-26 23 10-Man-25 23						
	issang and Commissioning ion and inspection for permanent water supply, power supply and fire services works	52		17%- 18.69%-	- 11	14-Oct-21		14-Oct-21 A	20-Apr-25		13-6/ay-25	14-Oct-21	29-Mar-25 17		++				- jan and an and an and
		1																	Approved
- Pri	mary Baseline	DC/2019	9/07 OUTI	YING I	SLANDS	SEWERA	GE STAC	E2 - UPG	RADING	OF CHEU	ING CHA	U SEWA	GE TREATMENT AND	DISPOSAL F	ACILITIES	Date	Revision	Chec	Approved
Ad	tual Work					F	REVISED	PROGR	RAMME -	REV. 2	2 (28 Fe	bruarv	2023)			30-Nov-22	Rev. 20		CL
Re	maining Work									11 of 13			/			31-Dec-22	Rev. 21		CL
	tical Remaining Work								1, nge		'					28-Feb-23	Rev. 22	JL	CL
		1																	
O Ba	seline Milestone	1																	



DC-83-5570 F			TRA (d)	ime Elapsed %	Actual Warkdane S	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev. 201	Early Finish (Rev. 20)	Total Amended 2021 20 Fleat Activities Q1 Q2 Q3 Q4 Q1 Q2	22 2023	2024	2125	2026 2
DC-83-5570 F	Preparation and approval of WWO 542 submission (FS system)	265	0	100%	100%	07-Jan-22	28-Stp-22	07-Jan-22 A	28-Stp-22 A			20 07-Jan-22	(Hev. 20) 28-Sep-22					- ar ac up u4 i
	Preparation and approval of WWO 542 submission (Plumbing system)	279	0	100%	100%	14-Oct-21	20-Jul-22	14-0ct-21 A	20-Jul-22 A			14-Oct-21	20-Jul-22	-				
	Preparation and approval of WWO 46 submission (FS system)	244	0	62.3%	30%	29-Sep-22		29-Sep-22 A	30-Hay-23	28-May-23	27-Aug-23	28-Sec-22	26-Jan-23	80				
DG.S3.5590 F	Preparation and approval of WWO 46 automission (Plumbing system)	273	0	66.3%	30%	31-Aug-22		31-Aug-22 A	30-Hay-23	28-May-23	27-Aug-23	31-Aug-22	28-Dec-22	89				
	WSD Inspection (FS system)	10	0	0%	0%			28-Jan-25*			28-Feb-26	28-Jan-25	08-Fab-25	22			H	
	WSD Inspection (Plumbing system)	10	0	0%	0%			20-Feb-25			15-Apr-25	07-Feb-25	16-Fab-25	45				
	Properation and approval of GBP submission for CCSTW	449	0	99.55%	90%	06-Dec-21		06-Dec-21 A			01-Mar-23	08-Dao-21	28-Cc1-22	C (4				
	Preparation and approval of DG submission (Upon GBP submission) Preparation and approval of F81314 for VAC (Upon GBP submission)	183	0	15.3% 15.3%	0%	31-Jan-23		31-Jan-23 A			27-Aug-23	29-Oct-22	25-Feb-23 25-Feb-23	28				
	Preparanten and approval of Houst 4 for VAC (upon User submission) Submission of Form 314, 501 and 501 a for CCSTW	90	0	15.3%	05	31-Jan-23		31-Jan-23 A 08-Jan-25*	01-Aug-23 07-Apr-25		27-Aug-23 29-Apr-25	29-Oct-22 08-Feb-25	25-reo-23 09-Mar-25	20				
	FSD Inspection of CCSTW (Final Inspection)	14	0	05	05			08-Ap-25			29-Apr-25 13-May-25	10-Peb-25	23-Mar-25	22				
	DG inspection by FSD	10	0	0%	0%			17-Ap-25		04-May-25		20-Mar-25	29-Mar-25	17			L#	
SCADA System	o repeared to	10		36,39%	974	15-Dec-21		15-Dec-21 A			13-May-25	15-Deo-21	19-Feb-25	37		╋╾┽┥╋	,	
	SCADA Equipment Submission and Approval	349	0	100%	10D%	15-Dec-21	28-Nov-22	15-Dec-21 A	28-Nov-22 A			15-Deo-21	28-Nov-22					
	Procurement	30	0	100%	100%	31-Aug-22	28-Nov-22	31-Aug-22 A	28-Nov-22 A			31-Aug-22	28-Nov-22					
DC.83.5720 F	Fabrication	416	0	39.9%	39%	15-Sep-22		15-Sep-22.A	04-Nov-23	22-Mar-23	26-Nov-23	15-Sec-22	18-Jan-23	22				
DC.83.5730 0	Delvery	30	0	055	055			05-Vor-23	04-Dec-23	15-Jun-24	14-Jul-24	19-Jan-23	17-Feb-23	223	<u> </u>			
DC.83.5770 F	Preparation and cable Installation works by communication company	540	0	64.05%	60%	04-Jun-22		04-Jun-22 A	28-Jul-23	20-Jun-23	17-Nov-23	04-Jun-22	03-Feb-23	112				
	SC4DA equipment installation (Phase 1 Studge Digestor Building Construction)	30	0	0%	0%			10-Aug-23	08-Sep-23		18-Oct-23	28-Jul-23	24-Aug-23	40	> 4			
	SCADA equipment installation (Phase 3 PTF Construction)	30	0	0%	0%			26-Mar-24			02-Jun-24	14-Dec-23	12-Jan-24	39		•		
	SCADA equipment installation (Phase 1 MBR Construction)	30	0	0%	0%			15-Mar-24			13-Apr-24	31-Oct-23	29-Nov-23	0	K 7	3		
	SCADA equipment installation (Phase 5 Effluent Reuse Construction)	30	0	0%	0%			08-Dec-24			08-Mar-25	29-Sep-24	28-Cc1-24	6'		14	4	
	SCADA ecupment installation (Phase 5 Studge Centrifuge Construction)	30	0	0%	0%			24-Det-24			02-Feb-25	22-Nov-24	21-Dec-24	17	N		/11	
	SCADA equipment installation (Phase 5 Studge Dewatering System)	30	0	0%	0%			21-Sep-24	20-Cc1-24		02-Feb-25	13-Oct-24	11-Nov-24	105				
	SCADA eculpment installation (Section 2 at PSSPS) SCADA System Site Acceptance Test (Phase 1 Slucke Disestor Building Construction)	30	0	055	0%			15-Mar-24 09-Sep-23	13-Apr-24 08-Cc1-23		27-Apr-25 17-Nov-23	18-Feb 23 25-Aup-23	19-Mar-23 23-Sep-23	379 40				
	SUADA system Site Acceptance Test (Prace 1 Studge Digestor suirding Construction) Disconnecting data link of removed existing equipment from the existing SCADA system (Prase 2 Ste Clearance at PTF Area)	30	0	100%	100%	31-Jan-23	10 Feb 03	09-Sep-23 S1-Jan-25 A	06-Feb-23 A	19-Oct-23	17-N08-23	25-Aug-23 19-Jan-23	23-Sep-23 25-Jan-23	40				
	Disconneoung data tink of removed existing equipmentmom the existing SCADA system (Phase 2 Stel Clearance at PTP Area) SCADA System Sile Acceptance Test (Phase 3 PTF Construction)	7	0	100%	100%	ari-Jan-2d	uo-reo-23	31-Jan-25 A 14-Vev-24		04-Jun-24	03-10-24	19-Jan-25 22-Jan-24	20-Jan-23 20-Feb-24	2'				
	SCADA System Site Acceptance Test (Phase 1 MBR Construction)	30	0	0%	0%			14-589-24 14-Apr-24			13-May-24	30-Nov-23	29-Dec-23	<u> </u>	/ L			
	Disconnecting data link of removed existing equipment from the existing SCADA system (Phase 4 Demolition of existing PTF)	7	0	0%	0%			20-Sep-24	26-Sep-24		09-Nov-24	03-Jul-24	09-Jul-24	44			# + +++	
	SCADA System Sile Acceptance Tool (Phase 5 Elluent Reuse Construction)	30	0	0%	05			07-Jan-25			07-Apr-25	29-0:1-24	27-Nov-24	8'				
	SCADA System Sile Acceptance Test (Phase 5 Sludbe Centrifuge Construction)	30	D	0%	05			23-Jan-25			04-Mar-25	22-Dec-24	20-Jan-25	1	$+$ \times $+$ $+$ $+$			
	SCADA System Site Acceptance Test (Phase 5 Sludge Dewatering System)	30	0	0%	0%			21-0ct-24	19-107-24		04-Mar-25	12-Nov-24	11-Dec-24	105				
	SCADA System Site Acceptance Test (Section 2 at PSSPS)	30	0	055	0%			31-Mar-24	28-Apr-24		13-May-25	06-Mar-25	04-Apr-23	379		 		
DC.53.5775dr 5	SCADA System Commissioning Test (Phase 1 Studge Digestor Building Construction)	30	0	0%	0%			09-0ct-23		18-Nov-23	17-Dec-23	24-Sep-23	23-Oc1-23	40				
DC.83.577542 S	SCADA System Commissioning Test (Phase 3 PTF Construction)	30	0	0%	0%			13-Jun-24	12-Jul-24	04-Jul-24	02-Aug-24	2'-Feb-24	21-Mar-24	2'		•		
DC.S3.5775d3 S	SC4DA System Commissioning Test (Phase 1 HBR Construction)	30	0	0%	0%			14-9sy-24		14-May-24	12-Jun-24	30-Deo-23	28-Jan-24	0		u42 ■		
	SCADA System Commissioning Test (Phase 5 Effluent Reuse Construction)	30	0	0%	0%			05-Mar-25			07-May-25	27-Dec-24	25-Jan-25	3'			H C	
	SCADA System Commissioning Test (Phase 5 Studge Centriluge Construction)	30	0	0%	0%			22-Feb-25			03-Apr-25	21-Jan-25	19-Feb-25	1'	N		++ - F	
	SCADA System Commissioning Test (Phase 5 Studge Devratoring System)	30	0	0%	0%			20-\\or-24			03-Apr-25	12-Dec-24	10-Jan-25	105			1	
	SCADA System Commissioning Test (Sector 2 at PSSPS)	30	0	0%	0%			31-Mar-24			13-May-25	08-Mar-23	04-Apr-23	379		1		
	SCADA eculoment installation at SHWSTW TV, ACS, Intercom, Radio)	30	0	055	0%			21-Sep-24 07-Aug-24	20-0c1-24	04-Jan-25	02-Feb-25 03-Apr-25	13-Oct-24 25-Mey-24	11-Nov-24	105	7			
	TV, ACS, Intercom, Radio) Eculorient Submission and Approval	30	0	055	055			07-Aug-24 07-Aug-24*	04-1887-25 05-Sep-24	06-Sep-24 06-Sep-24	05-0cf-24	25-MEy-24 25-MEy-24	20-Dec-24 23-Jun-24	30				
	Equanenciar nason anu Approver Prouvenset	30	0	0%	0%			07-402-24 08-Sep-24			03-Jat-25	20-msy-24 24-Jun-24	23-501-24 21-Sep-24	30	+		d	
	Fabrication	15	0	0%	0%			05-Dec-24			18-Jan-25	22-Sec-24	08-0:1-24	30				
	Dalvary	15	0	0%	0%			20-Dec-24	02-Jan-25		02-Feb-25	07-0:1-24	2'-0:124	30		Ę.	e	
	E&M Installation Works	60	0	0%	0%			04-Jan-25			03-Apr-25	22-O:1-24	20-Dec-24	30			i i i	
O & M Manual & 1	Training			055				01-Vor-24	04-Hay-25	08-Jan-25	12-May-25	01-Aug-24	12-Dec-24	8		+	┢╋┯┊┊	
DC.83.5765a S	Submission of draft C&M Manual	60	0	055	0%			01-Nov-24*	30-Dec-24	08-Jan-25	08-Mar-25	01-Aug-24	29-Sep-24	68			A	
DC.53.5765b 1	Training to Client's Staffs	14	0	055	0%			21-Apr-25	04-Hay-25	29-Agr-25	12-May-25	30-Sec-24	13-Oc1-24	8	\langle			
	Submission of Interim OSM Manual	60	0	0%	0%			31-Dec-24	28-Fsb-25*	09-War-25	07-May-25	14-Oct-24	12-Dec-24	68				
	DUE TO CES			87.04%		18-Jan-22		18-Jan-22 A	28-Apr-23	08-War-23	20-May-23	18-Jan-22	19-Apr-23	17				
	CE-015, Abandonement Works for Existing 900mm Diameter Pipe Connection to Manhole SHM7003180 and CCH7000000	6	1	100%	100%	13-May-22	20-May-22	13-May-22 A	20-\\tsy-22 A			13-May-22	20-May-22		· · · · · · · · · · · · · · · · · · ·			
	CE-024, Pilo: Trial Leak Datection for Existing Manholes in Cheung Chau	162	- 4	100%	100%	17-Mar-22	08-Oct-22	17-Mar-22 A	08-Oct-22 A			17-Mar-22	08-Cc1-22					
	CE-033, Repair Works of Existing Studge 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			d-4	
	CE-044, Point Cloud Survey at Chaung Chau	72	3	100%	100%	15-Mar-22	17-Jun-22	15-Mar-22 A	17-Jun-22 A			15-Mar-22	17-Jun-22		<u> </u>		ded i i i i	
	CE-355, Uncerground Utilities Survey and Water Intrusion Identification in Cheung Chau	153	2	100%	100%	18-May-22	17-Nov-22	16-May-22 A	17-Nov-22 A			16-May-22	17-Nov-22				d-1: ; ; ; ; ; ;	
	CE 465, Additional Difficulty of Preliminary Treatment Facilities in CCSTW (Batch 1) (Total 7 nos.)	25	0	100%	100%	31-Jui-22	30-Aug-22	31-Jul-22 A	30-Aug-22 A			01-Aug-22	31-Oc122					
	CE 485, Additional Drillholes for Preliminary Treatment Facilities in CCSTW (Batch 2) (Total 8 nos.)	30 85	0	100%	100%	26-Jui-22 20-May-22	30-Aug-22	26-Jul-22 A 20 May-22 A	30-Aug-22 A 06-Aug-22 A			30-Sep-22 30-Sep-22	12-Dec-22 17-Dec-22					
	CE-056, Inspection Pit Works for Water Instruction Indentification in Cheung Chau (Batch 1)	65 171	0	100%	100%		36-Aug-22	20 May-22 A 30-Sep-22 A	06-Aug-22 A 29-Ap-23*	20 May 22	20 May 22	30-Sep-22 30-Sec-22	17-Dec-22 30-Mar-23	17				
	CE-091, hspection Pr: Works for Water Instruction Indentification in Cheung Chau (Batch 2) CE-091, inspection Pr: Works for Water Instruction Indentification in Cheune Chau (Batch 3)	1/1	0	71.35%	33%	30-Sep-22 15-Dec-22		30-Sep-22 A 15-Dep-22 A		20-Mar-23 20-Mar-23		30-Sep-22 15-Deo-22	30-48+23 19-Apr-23	17				
	CE-Law, repettion into works for water instruction indentification in Cheang Linitu (satch 3) OF SECTION 3	100	0	056	071	10-080-22		13-Ap-25	29-9p-23 13-1/an-26	13-Am-25	18-May 25	25-Dec-24	08-Apr-25		T		🖛 🗄 🗄	
	Pre-handover meeting with DSD/ST2	1	0	055	055			13-Ap-25		13-Apr-25	13-Apr-25	20-Deo-24	20-Dec-24	0		- frankrak lakely	<u></u>	
	Handover meeting with DSD/ST2	1	0	055	0%			13-Vey-25		13-May-25		19-Jan-25	19-Jan-25	0	:: [] :::		4. 10 1 1 1	
	Completion of Section 3 (Working Days)	3	0	0%	0%			70- 049-2D	13-Hay-25		13-May-25		08-Apr-25	-			L •	
SECTION 4			Ť	0%				08-Vey-25	05-Feb-28	18-May-25	05-Feb-26	19-Jan-25	15-Oc1-25		/			±
	mance Verification (At least 18 months End of S4)			0%				08-Vey-25	05-Feb-26	08-Way-25	05-Feb-26	19-Jan-25	15-Cc1-25	2				T
30-month Perfor		DCI2040				SEWER	AGE STAC	252 . 1100				II SEWAG		MENT AND DISPOSAL FACILITIES	s Date	Revisi	ion Chec	c Approved
	ary Baseline	DCIZUIS						JEZ . OF O	INADINO U	F CHEU	NO CHA	O OLINAG	IL INEAL	MENT AND DISPUSAL FACILITIES	00.010 77	D 00		01
Prima		DC/2013	5107 00											MENT AND DISPUSAL FACILITIE:	30-Nov-22		JL	CL
Prima Actua	al Work	DCIZUIS	<i>,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ULAND.				AMME - F	REV. 2	2 (28 Fe			MENT AND DISPOSAL PACILITIE:	30-Nov-22 31-Dec-22		JL	CL
Prima Actua Rem	al Work naining Work	DC/2018			o En la D				AMME - F		2 (28 Fe			MENT AND DISPUSAL FACILITIE	30-Nov-22	Pev. 21		
Prima Actua Rem	al Work	DC/2018							AMME - F	REV. 2	2 (28 Fe			MENT AND DISPUSAL PACILITIE:	30-Nov-22 31-Dec-22	Pev. 21	JL	CL



ty ID	Activity Name	Ori, Dur (d)	TRA (d) TI	ne Elspeed X	Actual	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Early Start (Rev.		Total	Amended	2021	2022	2023		2024	2025	2026
					Workdone %							20)	(Rav. 20)		Activities	1 02 03 04	01 02 03 04	Q1 02 0	23 04 01 0	<u>e as as a</u>	02 03 04	Q1 Q2 Q1
0.84.1040	32-month performance verification (At least 18 months before End of S4) (Period from 9th to 18th month)	274	đ	0%	0%			08-¥sy-25	05-Feb-26	08-May-25		19-Jan-25	15-Oct-25	0								
xternal Arch				0%				14-Vay-25	04-Sep-25		01-Dec-25	08-Apr-25		88								
DC S4.1010	External Architectural at MBR Treatment Facilities	90	6	0%	0%			14-9ay-25	04-Sep-25	08-ALg-25	01-Dec-25	06-Apr-25	05-Aug-25	72				ALC: N		•		
DC S4.1100	External Architectural at Sludge Digestor Building	60	4	0%	0%			14-Way-25	29-Jul-25	15-Sep-25	01-Dec-25	06-Apr-25	27-Jun-25	104							•	
DC S4.1110	External Architectural at Sludge Centrifuge House	60	4	0%	0%			14-9sy-25	29-Jul-25	15-Sep-25	01-Dec-25	08-Apr-25	27-Jun-25	104						-	•	
DC S4.1120	External Architectural at Preliminary Treatment Facilities	90	6	0%	0%			14-9ay-25	04-Sep-25	08-ALg-25	01-Dec-25	08-Apr-25	05-Aug-25	72						1	÷	
DC S4.1130	External Architectural at Effuent Reuse Building	30	2	DN-	0%			14-9ay-25	20-Jur-25	24-Out-25	01-Dec-25	06-Apr-25	20-May-25	136						-	• 	
DC S4.1140	External Architectural at FS Pumproom and Pumproom	32	2	D%-	0%			14-9ay-25	20-Jur-25	24-Oct-25	01-Dec-25	06-Apr-25	20-May-25	136					1.1	-	•	
DC S4.1150	External Architectural at Dangarou's Good House	30	2	0%	0%			14-9ay-25	20-Jur-25	24-Oct-25	01-Dec-25	09-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	08-Apr-25	02-Jun-25	126								
andscaping.	Works & Imigation System			0%				14-Vay-25	12-Nov-25	02-Oct-25	05-Feb-28	08-Apr-25	11-Oct-25	85					1.1			
DC S4.1020	The site-white 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 Irrigation System	97	7	0%	0%			14-Yay-25	13-Sep-25	02-Oct-25	05-Feb-28	08-Apr-25	14-Aug-25	118				1.1				
Construction	of New Security Fence			0%				14-98y-25	27-Sep-25	06-Aug-25	05-Feb-28	08-Apr-25	28-Aug-25	106							· · · · ·	
DC S4.1030	Demolition of Existing Boundary Wal	60	4	0%	0%			14-Yay-25	29-Jul-25	06-Asg-25	21-0ct-25	09-Apr-25	27-Jun-25	70			1111		1	1.1.1.1.1		
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							4	
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		1.1			
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								-
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-Stp-25	18-Sep-25	52				(1)			3 3 4 8 M	
DC 84.1042	Handover meeting with DSD/ST2	1	0	0%	0%			15-Dec-25	16-Dec-25	05-Feb-28	05-Feb-26	18-Oct-25	16-Oct-25	52						1	50	1
DC S4.1050	Completion of Section 4	0	0	0%	0%				05-Feb-26*		05-Feb-26		16-Oct-25	0			1111		1.1		1 1 i	•
0-month perf	ormance verification (remaining 12 months after S4)			DN-				05-Feb-26	06-Feb-27	CS-Feb-25	05-Feb-27	15-Oci-25	01-Jan-27	0								-
DC.PV.1010	30-month performance vertification (remaining 12 months after S4) (Period from 18th to 30th month)	385	0	0%	0%			05-Feb-26	05-Feb-27	05-Feb-28	05-Feb-27	18-Oct-25		0			111				1 1 4 4	
DC.PV.1020	Date of 12 months after S4	0	0	DN-	0%				05-Feb-27*		05-Feb-27		0'-Jan-27	0				<u>> </u>				
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				21			1.1.1.1.	+

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

APPENDIX C Calibration Certificates

(Air Monitoring)

15								LIBRATIO
							Mar	ch 31, 2024
viro	o n m	ent	al					
	11	2	0	0	CD	00		
	K	. til	cate		That	K.K.	ation	
	Oe	uqu	ane	9	Oun	wa	mon	
		C	alibration C	ertificat	ion Inform	ation	and a second	
Cal. Date:	March 31,			neter S/N:			294	°K
Construction Management of the		2023	RUOUSI	neter 5/N.	436320		748.54	
	Jim Tisch				2702	Pa:	748.54	mm Hg
Calibration N	Aodel #:	TE-5028A	Calib	orator S/N:	3702			
[Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
ĺ	1	1	2	1	1.3110	4.1	1.50	4
	2	3	4	1	1.0280	6.7	2.50	4
-	3	5	6 8	1	0.9340	8.1 9.4	3.00	
-	4	9	10	1	0.6580	16.2	6.00	
L	3	3				10.2	0.00	1
-			0	ata Tabula	tion			
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd)(Tstd Ta)		Qa	√∆H(Та/Ра)	
	(m3)	(x-axis)	(y-axi	is)	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	
-	0.9875	1.1357	1.750		0.9892	1.1376	1.1725	
	0.9767	1.4844	2.447	and the second second second	0.9784	1.4869	1.5351	
ľ		m=	1.680	24		m=	1.05214	
	QSTD	b=	-0.043		QA	b=	-0.02731	
L		r=	0.999	94		r=	0.99994	
[Calculatio	ns			
[/Pstd)(Tstd/Ta	1)		ΔVol((Pa-ΔF	P)/Pa)	
-	Qstd=	Vstd/∆Time				Va/∆Time		
-		//		ent flow ra	te calculation	ns:		
	Qstd=	1/m((√∆H(Pa (Tstd Pstd Ta))-b)	Qa=	1/m((√∆H	l(Та/Ра))-b)	
	Standard	Conditions						
Tstd:	298.15					RECA	LIBRATION	
Pstd:		mm Hg Cey			US EPA reco	mmends ar	nnual recalibratio	on per 1998
ΔH: calibrato			n H2O)				Regulations Part 5	
ΔP: rootsmet							Reference Meth	
Ta: actual ab: Pa: actual ba							ended Particulate	
b: intercept	onieuric pi	coore (mm	115/		the	Atmosphe	re, 9.2.17, page 3	30.
or meer cope								

Tisch Environmental, Inc. L45 South Miami Avenue /illage of Cleves, OH 45002

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

	HIVOL SAMPLI	ER CALIE	BRATION	DATA SHEE	T (TSP)
		Site	Information		
ocation:	The admin building inside the construction site	Site ID:	A1a	Date:	05-六月-202
erial No:	1048	Model:	TE-5170X	Operator:	Andy Li
		Ambi	ent Condition		
ctual Pressur mm Hg):	re during Calibration (P _a)	756.0	Actual Tempe Calibration (T	rature during	302.9
		Calib	ration Orifice	I	
odel:		TE	-5028A	Slope (m _c):	1.05214
erial No.:			3702	Intercept (b _c):	-0.02731
alibration Du	e Date:	31-	Mar-24	Corr. Coeff:	0.99994
		Cali	bration Data		
Plate or	∆H₂O		, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)		³ /min)	(chart)	(corrected)
18	1.60		215	38.0	37.59
10			=		
13	2.80		.599	47.0	46.50
10	2.80 3.60 4.40	1	.810	47.0 52.0 55.0	51.45
10 7 5 ampler Calibtat m=	3.60	1 2 C on y-axis)		52.0 55.0 60.0	
10 7 5 ampler Calibtat m=	3.60 4.40 5.60 20.9862 (ΔH ₂ O*(P ₂ /P _{3ct})*(T _{5ct} /T _a))- b _c] _{5ct})*(T _{5ct} /T _a))	1 2 C on y-axis)	.810 .998 .251 = 12.6150 alculations	52.0 55.0 60.0	51.45 54.41 59.36
10 7 5 ampler Calibtat m= a = 1/mc*[Sqrt (:= I*(Sqrt (P_s/P_s) a = actual flow r	3.60 4.40 5.60 iion Relationship (Qa on x-axis, I 20.9862 ($\Delta H_2O^*(P_9/P_{5cc})^*(T_{5cc}/T_a))-b_c]$ 5cc)*($T_{5cc}/T_a))-b_c]$ 5cc)*($T_{5cc}/T_a))$	1 2 C on y-axis)	.810 .998 .251 .251 alculations m = sampler slop	52.0 55.0 60.0 Co	51.45 54.41 59.36
10 7 5 ampler Calibtat m= ia = 1/mc*[Sqrt (P_y/P_s) ia = atlalflowr c = corrected chi- c = actual flowr	3.60 4.40 5.60 100 Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₂ /P _{3cs})*(T _{3cs} /T _a))- b ₂] (ΔH ₂ O*(T _{3cs} /T _a)) (ΔH ₂ O*(P ₂ /P _{3cs})*(T _{3cs} /T _a))- b ₂] arte sponse sponse	1 2 C on y-axis)	.810 .998 .251 .251 .251 .251 .251 .251 .251 .251	52.0 55.0 60.0 Co	51.45 54.41 59.36
10 7 5 me a = 1/mc*[Sqrt (P_s/P_s) a = actual flow rs b = corrected chart c = calibrator sl b = corrected chart c = co	3.60 4.40 5.60 iion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₉ /P _{5cel})*(T _{5cel} /T _a))- b ₂] _{5cel} *(T _{5cel} /T _a)) rate art response asponse lope	1 2 C on y-axis)	.810 .998 .251 alculations m = sampler slop b = sampler into T _{Sud} = 798 deg K P _{Sud} = 760 mm H	52.0 55.0 60.0 Cu	51.45 54.41 59.36 orr. Coeff=0.9
10 7 5 ampler Calibtati m= a = 1/mc*[Sqrt (= 1*[Sqrt (Ps/Ps a = actual flow n = corrected chi	3.60 4.40 5.60 iion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₉ /P _{5cel})*(T _{5cel} /T _a))- b ₂] _{5cel} *(T _{5cel} /T _a)) rate art response asponse lope	1 2 C on y-axis)	.810 .998 .251 alculations m = sampler slopb = sampler intrTSrd = 298 deg KPStd = 760 mm HTa = actual temp	52.0 55.0 60.0 Co	51.45 54.41 59.36 orr. Coeff=0.99
10 7 5 mpler Calibtat m= a = 1/mc*[Sqrt (P_s/P_s a = actual flow r = corrected char : actual chart re = calibrator sl	3.60 4.40 5.60 iion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₉ /P _{5cel})*(T _{5cel} /T _a))- b ₂] _{5cel} *(T _{5cel} /T _a)) rate art response asponse lope	1 2 C on y-axis) C	.810 .998 .251 alculations m = sampler slopb = sampler intrTSrd = 298 deg KPStd = 760 mm HTa = actual temp	52.0 55.0 60.0 Co pe ercept g erature during calibrati	51.45 54.41 59.36 orr. Coeff=0.99
10 7 5 mpler Calibtat m= = 1/mc*[Sqrt (Ps/Ps = actual flow rs = ourrected chart = actual chart re = calibrator sl	3.60 4.40 5.60 	1 2 C on y-axis) C	.810 .998 .251 .251 alculations m = sampler slopb = sampler intrT5rd = 298 deg KP6rd = 760 mm HT8 = actual termP8 = actual terms	52.0 55.0 60.0 Co pe ercept g erature during calibrati	51.45 54.41 59.36 orr. Coeff=0.99
10 7 5 npler Calibtat m= = 1/mc*[Sqrt (F_P/P_S = actual flow i corrected chart re = calibrator int	3.60 4.40 5.60 cion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₂ /P _{3scl})*(T _{3scl} /T _a))- b _c] _{3scl})*(T _{3scl} /T _a)) rate art response art response lope tercept	1 2 C on y-axis) C	.810 .998 .251 .251 alculations m = sampler slopb = sampler intrT5rd = 298 deg KP6rd = 760 mm HT8 = actual termP8 = actual terms	52.0 55.0 60.0 Co pre prcept 8 rerature during calibration (r	51.45 54.41 59.36 orr. Coeff=0.99
10 7 5 mpler Calibrat m= = 1/m_c*[Sqrt (F_p/P_s = actual flow r corrected ch actual chart re = calibrator inl 72.0 62.0	3.60 4.40 5.60 cion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₂ /P _{5cc})*(T ₅₅₀ /T _a))- b _c] 5cd)*(T ₅₅₀ /T _a))- b _c] 5cd)*(T ₅₅₀ /T _a))- b _c] 5cd)*(T ₅₅₀ /T _a))- b _c] 6cd)	1 2 C on y-axis) C	.810 .998 .251 .251 alculations m = sampler slopb = sampler intrT5rd = 298 deg KP6rd = 760 mm HT8 = actual termP8 = actual terms	52.0 55.0 60.0 Co pe ercept g erature during calibrati	51.45 54.41 59.36 orr. Coeff=0.99
10 7 5 spler Calibtat m= = 1/me*[Sqrt (Pa/Pa = actual flow rr corrected ch corrected ch corrected chart re = calibrator int 72.00 62.00	3.60 4.40 5.60 sion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₂ /P _{3col})*(T _{3col} /T _a))- b _c] scale scale scale scale tartesponse soponse lope tercept	1 2 C on y-axis) C	.810 .998 .251 .251 alculations m = sampler slopb = sampler intrTStd = 298 deg KPStd = 760 mm HTa = actual tempPa = actual tempPa = actual temp	52.0 55.0 60.0 Co pre prcept 8 rerature during calibration (r	51.45 54.41 59.36 orr. Coeff= 0.9
10 7 5 s anpler Calibtat m= = 1/m_c*[Sqrt (F_g/P_g) = actual flow <i>n</i> corrected characturation of the second corrected characturaturaturation of the second corrected characturaturaturaturatu	3.60 4.40 5.60 sion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₂ /P ₃₆₂)*(T ₃₅₀ /T ₃))- b ₂] scale scale scale scale scale scale	1 2 C on y-axis) C	.810 .998 .251 .251 alculations m = sampler slopb = sampler intrT5rd = 298 deg KP6rd = 760 mm HT8 = actual termP8 = actual terms	52.0 55.0 60.0 Co pre prcept 8 rerature during calibration (r	51.45 54.41 59.36 orr. Coeff= 0.9
10 7 5 mpler Calibrat m= = 1/m_c*[Sqrt (F_p/P_s = actual flow r corrected ch actual chart re = calibrator inl 72.0 62.0	3.60 4.40 5.60 iion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₂ /P ₃₅₀)*(T ₃₅₀ /T _a))- b ₂] scal*(T ₃₅₀ /T _a)) rate art response sponse lope tercept	1 2 C on y-axis) C	.810 .998 .251 .251 alculations m = sampler slopb = sampler intrTStd = 298 deg KPStd = 760 mm HTa = actual tempPa = actual tempPa = actual temp	52.0 55.0 60.0 Co pre prcept 8 rerature during calibration (r	51.45 54.41 59.36 orr. Coeff=0.99
10 7 5 mpler Calibtat $m=_{-}$ = 1/m _c *(Sqrt (π_{e}/P_{s} = actual flow <i>i</i> corrected cha actual chart re = calibrator inl 72.0 62.0	3.60 4.40 5.60 sion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₉ /P _{5cd})*(T _{5cd} /T _a))- b _c] 5cd)*(T _{5cd} /T _a)) rate art response sponse lope tercept	1 2 C on y-axis) C	.810 .998 .251 .251 alculations m = sampler slopb = sampler intrTStd = 298 deg KPStd = 760 mm HTa = actual tempPa = actual tempPa = actual temp	52.0 55.0 60.0 Co pre prcept 8 rerature during calibration (r	51.45 54.41 59.36 orr. Coeff=0.99
10 7 5	3.60 4.40 5.60 sion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₉ /P _{5cd})*(T _{5cd} /T _a))- b _c] 5cd)*(T _{5cd} /T _a)) rate art response sponse lope tercept	1 2 C on y-axis) C	.810 .998 .251 alculations m = sampler slopb = sampler intrTSrd = 298 deg KPstd = 760 mm HTa = actual tempPstd = 760 mm H	S2.0 S5.0 60.0 Complete pee pee percept g reature during calibration (r R ² = 0.9951	51.45 54.41 59.36 orr. Coeff= 0.99 on (deg K) nm Hg)
10 7 5 mpler Calibrat $m=_{-}$ = $1/m_c^*$ (Sqrt (r_s/p_s = actual flow <i>i</i> corrected ch actual chart <i>r</i> = calibrator inl 72.0 62.0	3.60 4.40 5.60 iion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₂ /P _{3ccl})*(T _{3ccl} /T _a))- b _c] _{5ccl})*(T _{3ccl} /T _a)) rate art response sponse lope tercept	1 1 2 C on y-axis) b C	.810 .998 .251 alculations m = sampler slopb = sampler intrTSrd = 298 deg KPstd = 760 mm HTa = actual tempPstd = 760 mm H	S2.0 S5.0 60.0 Complete pee pee percept g reature during calibration (r R ² = 0.9951	51.45 54.41 59.36 orr. Coeff= 0.99 on (deg K) nm Hg)
10 7 5 mpler Calibrat $m=_{-}$ $i = 1/m_c*[Sqrt (\pi_c/P_g)i = actual flow w = corrected ch actual chart e_c= calibrator inl 72.0 62.0$	3.60 4.40 5.60 iion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₂ /P _{3ccl})*(T _{3ccl} /T _a))- b _c] _{5ccl})*(T _{3ccl} /T _a)) rate art response sponse lope tercept	1 1 2 C on y-axis) b C	.810 .998 .251 alculations m = sampler slopb = sampler intrTSrd = 298 deg KPstd = 760 mm HTa = actual tempPstd = 760 mm H	S2.0 S5.0 60.0 Complete pee pee percept g reature during calibration (r R ² = 0.9951	51.45 54.41 59.36 orr. Coeff= 0.9 on (deg K) nm Hg)
10 7 7 5 ampler Calibitat m=	3.60 4.40 5.60 iion Relationship (Qa on x-axis, I 20.9862 (ΔH ₂ O*(P ₂ /P _{3ccl})*(T _{3ccl} /T _a))- b _c] _{5ccl})*(T _{3ccl} /T _a)) rate art response sponse lope tercept	1 1 1 2 C on y-axis) C C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.810 .998 .251 alculations m = sampler slopb = sampler intrTSrd = 298 deg KPstd = 760 mm HTa = actual tempPstd = 760 mm H	S2.0 S5.0 60.0 Complete pee pee percept g reature during calibration (r R ² = 0.9951	51.45 54.41 59.36 orr. Coeff= 0.9 on (deg K) nm Hg)





HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

		Site I	nformation		
Location:	The existing outfall pumping station inside the construction site	Site ID:	A2A	Date:	05-六月-2023
Serial No:	1085	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):		Actual Temperature during Calibration (T _a) (deg K):	302.9
--	--	---	-------

	Calibration Orifice		
Model:	TE-5028A	Slope (m _c):	1.05214
Serial No.:	3702	Intercept (b _c):	-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)	(m ³ /min)	(chart)	(corrected)				
18	1.60	1.215	41.0	40.56				
13	2.30	1.452	46.0	45.51				
10	3.60	1.810	49.0	48.48				
7	4.20	1.953	51.0	50.46				
5	5.80	2.291	56.0	55.40				

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

13.0008

b= 25.4059 Corr. Coeff= 0.9906

Calculations

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

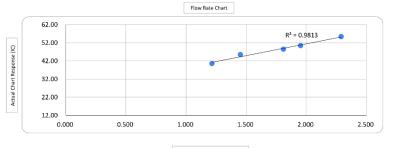
Qa = actual flow rate

IC = corrected chart response I = actual chart response

m=

m_c = calibrator slope b_c = calibrator intercept

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



Standard Flow Rate (m³/min)

Checked by: Tandy Tsc ' Scnior Consultant, Environmental

05-六月-2023 Date:



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:	July 2023
Parameter:	TSP 1-hour
Major Dust Source	Construction activities and daily operation of the sewerage treatment plant

Other Factors

NA

_			1 st Hour	2 nd Hour	3 rd Hour
Date	e Weather Start Time		(µg/m³)	(µg/m³)	(µg/m³)
3/7/2023	Fine	14:28	47	51	50
10/7/2023	Sunny	14:02	51	55	54
18/7/2023	Sunny	14:38	54	62	67
20/7/2023	Sunny	15:26	59	63	64
26/7/2023	Sunny	15:30	64	56	53
		Average		57	·
		Range		47 - 67	

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

Other Factors

NA

Date	Weather	Start Time	1 st Hour (µg/m³)	2 nd Hour (μg/m ³)	3 rd Hour (μg/m ³)
3/7/2023	Fine	14:04	45	55	52
10/7/2023	Sunny	13:53	53	58	51
18/7/2023	Sunny	14:28	63	52	55
20/7/2023	Sunny	15:11	50	48	45
26/7/2023	Sunny	15:12	50	55	60
		Average		51	
		Range		45 - 63	

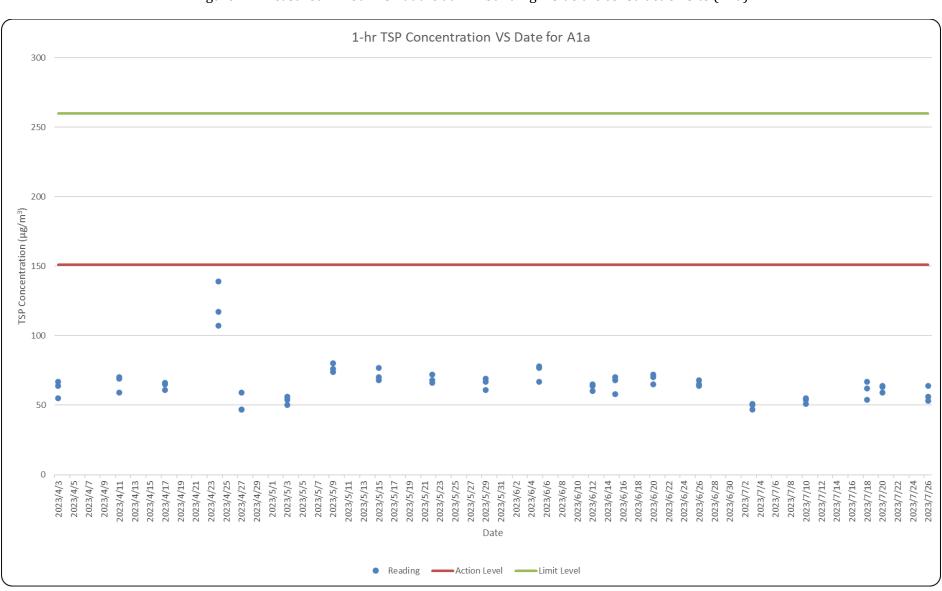
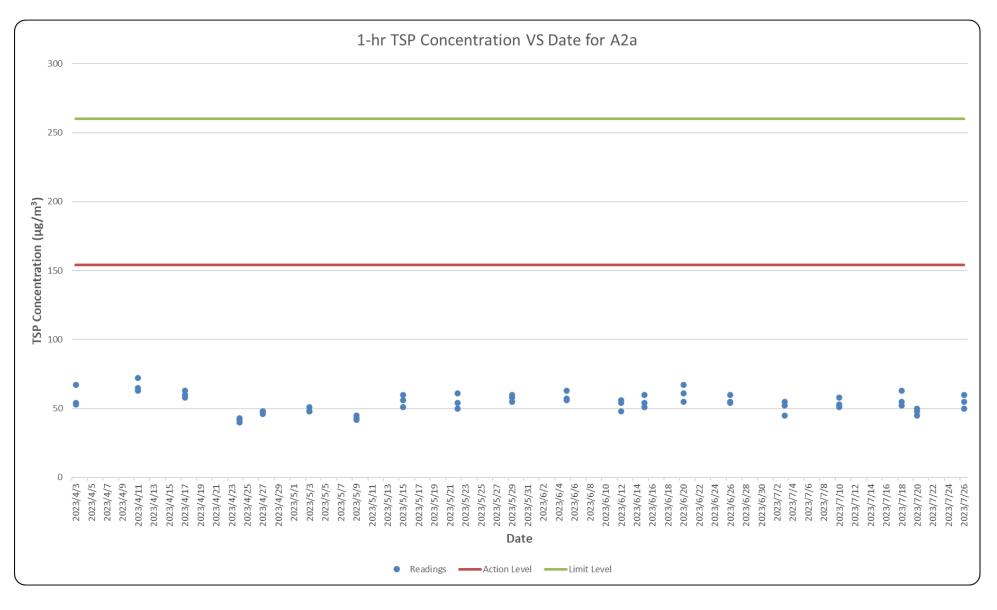


Figure D.1 Measured 1-Hour TSP at the admin building inside the construction site (A1a)





Location:A1aParameter:TSP 24-hourMajor dust sourceConstruction activities and daily operation of the sewerage treatment plantOther FactorsNA

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 ³ /min)	(m ³)	Initial	Final	(g)	(µg/m³)
03/07/2023	29.1	1008.8	Fine	290546.0	291987.0	1441.0	1.33	1917	2.6433	2.6808	0.0375	20
10/07/2023	30.7	1008.5	Sunny	291987.0	293446.0	1459.0	1.32	1933	2.6352	2.6852	0.0500	26
18/07/2023	29.0	1006.5	Sunny	293446.0	294946.0	1500.0	1.33	1990	2.6806	2.7478	0.0672	34
20/07/2023	30.2	1009.1	Sunny	294946.0	296386.0	1440.0	1.33	1912	2.6385	2.7020	0.0635	33
26/07/2023	32.1	1000.0	Sunny	296386.0	297835.0	1449.0	1.35	1957	2.6409	2.7781	0.1372	70
											Average	36

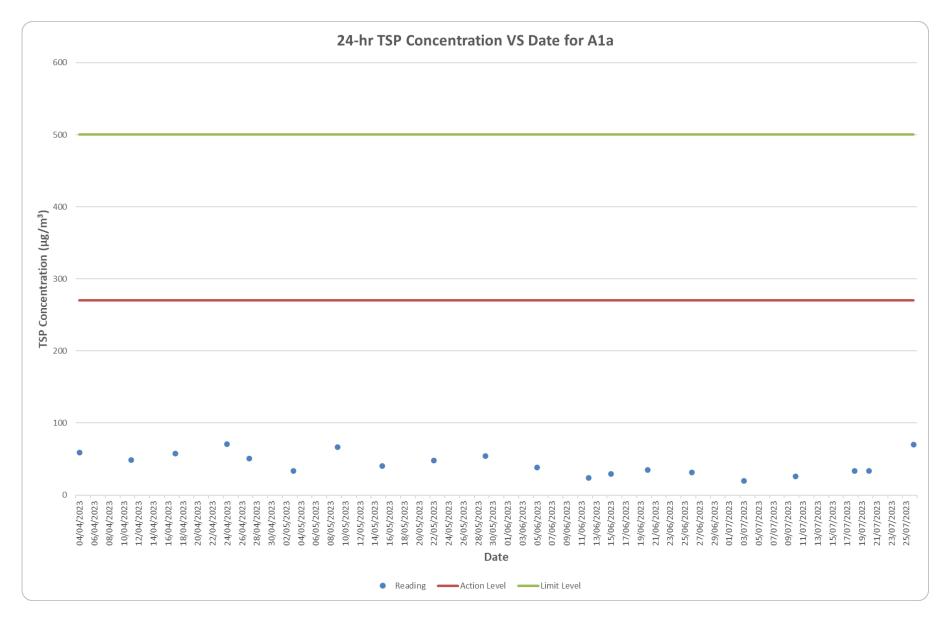
Range 20-70

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	t (g)	Particulate weight	Conc.
	(°C)	(mm Hg)		Initial (min)	Final (min)	Actual (min)	(m ³ /min)	(m ³)	Initial	Final	(g)	(µg/m³)
03/07/2023	29.1	1008.8	Fine	509239.0	510681.0	1442.0	29.1	1008.8	0.78	1130	2.6464	2.6851
10/07/2023	30.7	1008.5	Sunny	510681.0	512139.0	1458.0	30.7	1008.5	1.08	1573	2.6429	2.6935
18/07/2023	29.0	1006.5	Sunny	512139.0	513639.0	1500.0	29.0	1006.5	0.93	1395	2.6634	2.7402
20/07/2023	29.7	1009.1	Sunny	513639.0	515079.0	1440.0	29.7	1009.1	1.16	1674	2.6530	2.7288
26/07/2023	32.1	1000.0	Sunny	515079.0	516536.0	1457.0	32.1	1000.0	1.50	2181	2.6406	2.8265
											Average	50

Average50Range32 - 85

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



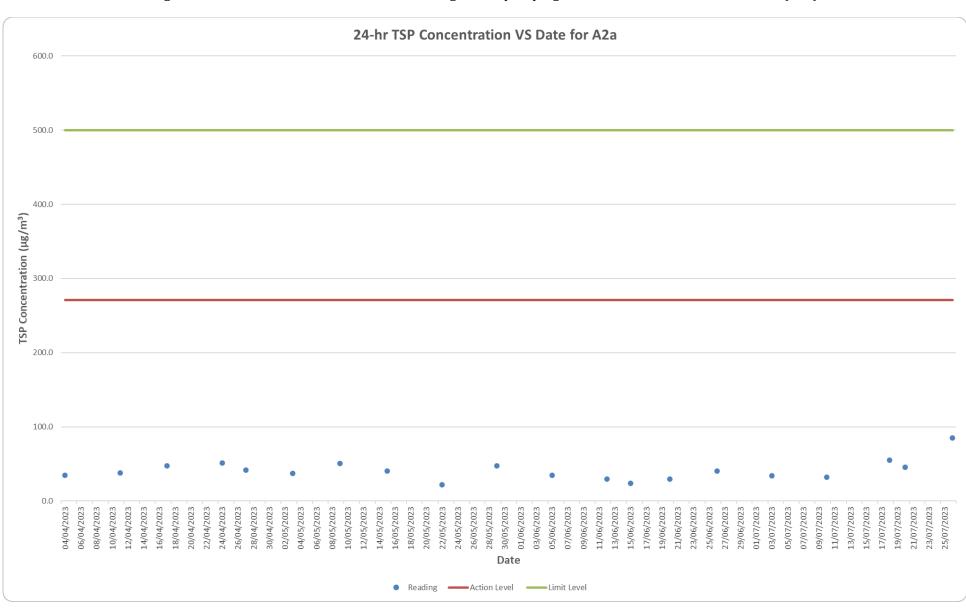
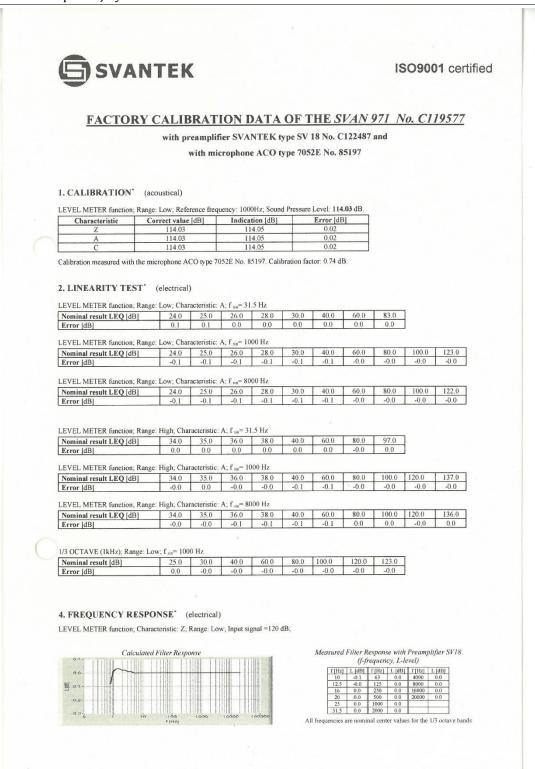


Figure D.4 Measured 24-Hour TSP at the existing outfall pumping station inside the construction site (A2a)

APPENDIX E Calibration Certificates (Noise)



5. INTERNAL NOISE LEVEL' (electrical - compensated)

LEVEL METER function; R	ange: Low; (Back-light	- off) ; Calibratio	n factor: 0dB
Characteristic	Z	A	С
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	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

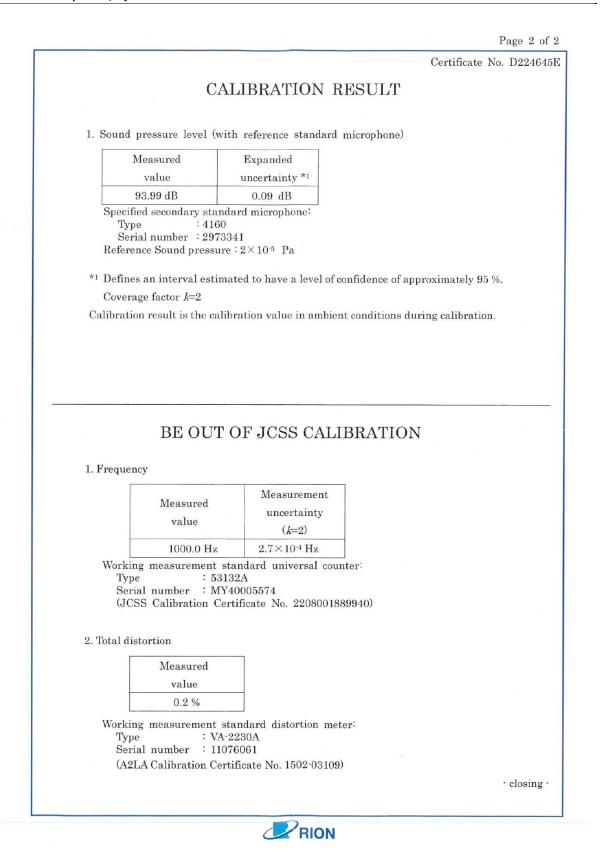
Herewith Svantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.
 The acoustic calibration was performed using the Sound Calibrator and is traceable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

sound recreation and the set of t 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





APPENDIX F Monitoring Data (Noise)

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

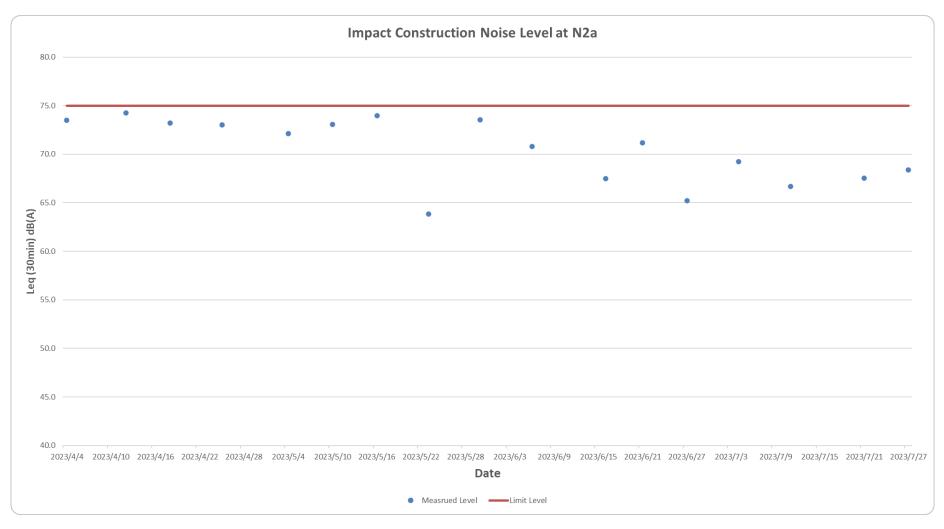
Date	Weather	Start Time	L _{eq}	L ₁₀	L ₉₀			
4/7/2023	Fine	14:35	69.2	71.4	63.8			
11/7/2023	Sunny	14:40	66.7	69.0	63.5			
21/7/2023	Sunny	14:30	67.5	69.7	64.5			
27/7/2023	Sunny	14:21	68.4	69.8	66.3			
		Average	68.1					
		Range	66.7 - 69.2					

Location:	N3a
Monitoring Period:	July 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 ₁₀	L ₉₀
4/7/2023	Fine	13:18	67.3	69.0	54.4
11/7/2023	Sunny	13:30	66.3	68.4	53.9
21/7/2023	Sunny	13:39	66.7	68.6	53.2
27/7/2023	Sunny	13:31	74.8	79.0	54.0
			70.5		
Range 66.3 – 74.8					

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)



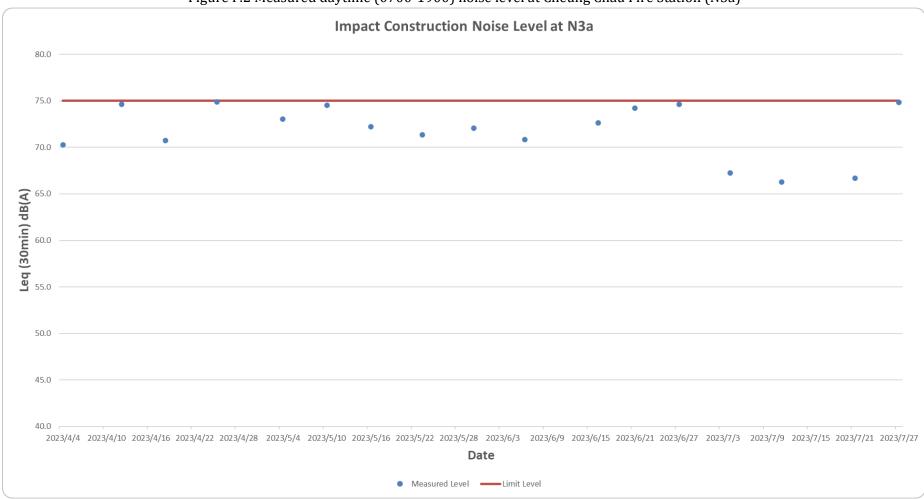


Figure F.2 Measured daytime (0700-1900) noise level at Cheung Chau Fire Station (N3a)

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?	Location / Timing of implementation of Measures			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))	1				•
S.3.5.5	 Appropriate dust control measures should be implemented during the construction stage in accordance with the requirements in the Air Pollution Control (Construction Dust) Regulation. Dust control techniques should be considered to control dust to a level not exceeding the AQOs as well as the 1-hour TSP guideline level of 500 µg/m³. These measures include, but are not limited to, the following: Adoption of good site practices; Avoid practices likely to raise dust level; Frequent cleaning and damping down of stockpiles and dusty areas of the site; Covering the exposed areas with tarpaulin; Reducing drop height during material handling; Provision of wheel-washing facilities for site vehicles leaving the site; Regular plant maintenance to minimize exhaust emission; and Sweep up dust and debris at the end of each shift. 	Air Quality (fugitive dust) Control during Construction Phase	Contractors		~		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	Air Quality (fugitive dust) Control during Construction Phase	Contractors		V		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the	Location / Timing of implementation of Measures			What requirements or standards for the measures to achieve?
			measures?	D	С	0	
S.3.10.1	Watering every 1.5 hours on active works areas and paved haul roads to reduce dust emissions by 90.9% (e.g. watering intensity at 0.5 litres/m². Actual application shall depend on the site condition and weather conditions).	Air Quality (fugitive dust) Control during Construction Phase	Contractors		V		EIA, Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	Watering every hour on unpaved areas and stockpiles of dusty materials (if no tarpaulin is provided) to reduce dust emissions by 90% (e.g. watering intensity at 1.5 litre/m ² during the first hour, subsequent application at 0.2 litre/m ² . Actual application shall depend on the site condition and weather conditions).	Air Quality (fugitive dust) Control during Construction Phase	Contractors		1		EIA, Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather	Air Quality (fugitive dust) Control during Construction Phase	Contractors		V		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	Use of frequent watering for particularly dusty construction areas and areas close to ASRs	Air Quality (fugitive dust) Control during Construction Phase	Contractors		V		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation
S.3.10.1	Vehicle washing facilities should be provided at every vehicle exit point	Air Quality (fugitive dust) Control during Construction Phase	Contractors		~		Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation

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

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

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the	impl	ion / Tim ementati Measure	on of	What requirements or standards for the measures to achieve?
			measures?	D	С	0	
S.3.10.1	Good site practices for concrete batching 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 (I	Jpgrading Works of Cheung Chau STW and Pak She SPS	(DP Component))	•	1	
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 ² . Nonetheless, a -5 dB(A) screening correction for site hoardings has been applied as a more conservative approach.	Noise control during construction	Contractors	At Pak She SPS during the entire construction period	EIA
S.4.4.23	For NSRs which would be affected by more than one Works Types, good scheduling works is recommended to minimize the cumulative construction noise impacts due to different Works Types.	Noise control during construction	Contractors	Construction areas near the specified locations during the construction period	EIA, Contractual requirements

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

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the	When to implement the measures?			What requirements or standards for the			
			measures?	D	С	0	measures to achieve?			
Construction Phase (U	pgrading Works of Cheung Chau STW and Pak She SPS (DP Com	ponent) and Sewers Work	s <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			
	 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; 	ne be es ks be er								Standards for Effluents Discharged into Drainage and Sewerage
	 Works programme should be designed to minimize works areas to reduce soil exposure and site runoff; 						Systems, Inland and Coastal Water			
	 Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure their proper functions; 									
	 Works programme should be carefully planned to minimize the scale of soil excavation during the rainy season; 									
	 Earthworks surfaces should be well compacted and subsequent permanent works or surface protection measures should be carried out immediately; 									
	 All vehicles should be washed before they leave the construction site to avoid earth, mud, and debris being carried off from the site. Wash-water should be treated to remove sand and silt at least on a weekly basis to ensure the continued efficiency of the washing facility; 									

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

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	When to implement the measures?			What requirements or standards for the
				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		 WPCO; TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water
S.5.7.5 and S.5.7.6	 Mitigations Measures for Spillage of Chemicals: Registration to EPD as a Chemical Waste Producer if chemical wastes are generated and need to be disposed of; Illegal disposal of chemicals should be strictly prohibited; and Oils and fuels should only be used and stored in the designated area which has polluting prevention facilities. 	Water Quality Control	Contractors		V		 WPCO; TM –Effluent Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the	When to implement the measures?			What requirements or standards for the
			measures?	D	с	0	measures to achieve?
Construction Phase	(Upgrading Works of Cheung Chau STW and Pak She SPS (DP Comp	oonent) and Sewers Work	s (non-DP Compor	ient))			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		√		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		V		Waste Disposal Ordinance
S.6.6.1	Regular cleaning and maintenance programme for drainage systems, pumps and oil interceptors.	Waste management during construction	Contractors		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	ineasures :	D	с	0	measures to achieve?
S.6.6.1	Separation of chemical wastes for special handling and appropriate treatment at a Chemical Waste Treatment Facility (CWTF).	Waste management during construction	Contractors		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		\checkmark		Waste Disposal Ordinance
S.6.6.1	Plan and stock construction materials to minimise amount of waste generated and avoid unnecessary generation of waste.	Waste management during construction	Contractors		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		\checkmark		Waste Disposal Ordinance

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?		to impl 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		~		Development Bureau Technical Circular (Works) (TC(W)) No. 6/2010, Waste Disposal Ordinance
S.6.6.5	The C&D materials to be disposed of at public filling reception facilities shall be only materials consist of brick, concrete, cement plaster, soil and inert building debris. The materials shall be free from plastics, chemical waste, industrial metals and other materials that are considered unsuitable at the facility.	Waste management during construction	Contractors		V		Waste Disposal Ordinance
S.6.6.6	General refuse should be stored in enclosed bins or compaction units separate from C&D materials. A reputable waste collector should be employed by the contractor to remove general refuse from the site regularly, separately from C&D materials. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light materials. In addition, a sufficient number of enclosed bins shall be provided on site for containment of general refuse to prevent visual impacts and nuisance to the sensitive surrounding.	Waste management during construction	Contractors		~		Waste Disposal Ordinance

EIA Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main	Who to implement the measures?		to imple measur		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?		en to imp e measu C		What requirements or standards for the measures to achieve?
Construction Pha	se (Upgrading Works of Cheung Chau STW (DP Component))	1					
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		\checkmark		N/A

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

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

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	Dust and Erosion Control for Exposed Soil Excavation works and demolition of existing building blocks shall be well planned with precautions to suppress dust. Exposed soil shall be covered or watered often. Areas that are expected to be left with bare soul for a long period of time after excavation shall be properly covered with suitable protective fabric. Suitable drainage shall be provided around construction sites to avoid discharge of contaminants and sediments into sensitive water-based habitats.	To minimise the disturbance to existing landscape resources and minimise the impacts on the visual amenity of the area	Contractors	\checkmark	EIA, Annex 10 and Annex 18 of EIAO- TM
Table 11.8	Reinstatement of Works Areas The affected works areas shall be properly reinstated to the satisfaction of relevant government departments.	Landscape mitigation measures	Contractors	\checkmark	EIA, Annex 10 and Annex 18 of EIAO- TM

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

Statistical Summary of Environmental Complaints

	Environmental Complaints Statistics					
Reporting Period	Frequency	Nature	Follow-up Actions			
1 July 2023 -	0	N/A	N7/4			
31 July 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 July 2023 -	0	NT/A				
31 July 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 July 2023 -	0	N/A	N7/A			
31 July 2023	0	N/A	N/A			
Cumulative	0	N/A	N/A			

Appendix I

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



			Jul-23			
ın	Mon	Tue	Wed	Thu	Fri	Sat
						1
	3	4	5	6	7	8
	24-hour TSP monitoring for A1a &					
	A2a	& N3a				
	1-hour TSP monitoring for A1a &					
	A2a					
	10	11	12	13	14	15
	10	11	12	15	14	15
	24-hour TSP monitoring for A1a &	Davtime Noise monitoring for N2a				
	A2a	& N3a				
	1-hour TSP monitoring for A1a &					
	A2a					
6	17	18	19	20	21	22
0	17	10	19	20	21	22
		24-hour TSP monitoring for A1a &		24-hour TSP monitoring for A1a &	Daytime Noise monitoring for N2a	
		A2a		A2a	& N3a	
		1-hour TSP monitoring for A1a &		1-hour TSP monitoring for A1a &		
		A2a		A2a		
3	24	25	26	27	28	29
<u>,</u>	51	25	20		20	
			24-hour TSP monitoring for Ala &	Daytime Noise monitoring for N2a		
			A2a	& N3a		
			1-hour TSP monitoring for A1a &			
			A2a			
0	31					
		1				
emarks:						
	onitoring (07:00-1900)	to the adverse weather caused by Ty				



Aug-23							
n				Thu	Fri	Sat	
		1	2	3	4	5	
		24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a				
	7	8	9	10	11	12	
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a					
3	14	15	16	17	18	19	
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a					
0	21	22	23	24	25	26	
	24-hour TSP monitoring for A1a & A2a 1-hour TSP monitoring for A1a & A2a	Daytime Noise monitoring for N2a & N3a					
7	28	29	30	31			
	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			