Bestwise – SFK Joint Venture

Contract No. DE/2018/17 Enhancement of Deodourisation System at Stonecutters Island Sewage Treatment Works

Quarterly Environmental Monitoring and Audit Report September to November 2020

(Version 1.0)

Certified By	(Environmental Team/Leader)
REMARKS:	

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

WELLAB accepts no responsibility for changes made to this report by third parties

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Attn: Mr. K K Kam

Agreement No. CE 8/2009(EP) Harbour Area Treatment Scheme Stage 2A Independent Environmental Checker for Construction Phase – Investigation

Our Reference EC/AFK/DC/jl/T261332/ 22.01/L-1479

Contract No. DE/2018/17 – Enhancement of Deodourisation System at Stonecutters Island Sewage Treatment Works

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3 February 2021

By Post

Dear Sir,

We refer to the captioned Quarterly EM&A Report for September to November 2020 (v1.0) received on 18 January 2021 and confirm that we have no comment.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

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TABLE OF CONTENTS

Page EXECUTIVE SUMMARY1 1. AIR QUALITY7 2. Monitoring Parameters, Frequency and Duration......7 3. 4. Review of Environmental Monitoring Procedures10 Status of Environmental Licensing and Permitting10 5. CONCLUSIONS AND RECOMMENDATIONS14 6.

LIST OF TABLES

Table I	Summary Table for Non-compliance Recorded in the Reporting Quarter
Table II	Summary Table for Key Information in the Reporting Quarter
Table 1.1	Key Project Contacts
Table 2.1	Locations for Air Quality Monitoring
Table 2.2	Impact Dust Monitoring Parameters, Frequency and Duration
Table 3.1	Locations for Noise Monitoring Stations
Table 3.2	Noise Monitoring Parameters, Frequency and Duration
Table 4.1	Summary of Environmental Licensing and Permit Status
Table 4.2a-c	Observations and Recommendations of Site Audits

LIST OF FIGURES

Figure 1	General Location Plan of the Project and
	Locations of Air Quality and Noise Monitoring Stations
Figure 2	ET's Organization Chart

LIST OF APPENDICES

- A Action and Limit Levels for Air Quality and Noise
- B Summary of Exceedance
- C 1-hour and 24-hour TSP Monitoring Graphical Presentations
- D Noise Monitoring Graphical Presentations
- E Summary of Amount of Waste Generated
- F Event Action Plans
- G Environmental Mitigation Implementation Schedule (EMIS)
- H Complaint Log
- I Construction Programme

ABBREVIATION AND ACRONYM

AL Levels	Action and Limit Levels
DSD	Drainage Services Department
E/ER	Engineer/Engineer's Representative
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring and Audit
EMIS	Environmental Mitigation Implementation Schedule
EP	Environmental Permit
EPD	Environmental Protection Department
ET	Environmental Team
HVS	High Volume Sampler
IEC	Independent Environmental Checker
RE	Resident Engineer
RH	Relative Humidity
QA/QC	Quality Assurance / Quality Control
SLM	Sound Level Meter
WMP	Waste Management Plan
SCISTW	Stonecutters Island Sewage Treatment Works
HATS Stage 2A	Harbour Area Treatment Scheme Stage 2A
BSJV	Bestwise - SFK Joint Venture

EXECUTIVE SUMMARY

Introduction

- 1. This is the 5th Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Wellab Limited for DSD Contract No. DE/2018/17 "Enhancement of Deodourisation System at SCISTW" (The Project) which documents the key information of EM&A and environmental monitoring works undertaken at the SCISTW under HATS Stage 2A Environmental Permit (Permit No. EP-322/2008/G).
- 2. The site activities undertaken in the reporting quarter included: <u>September 2020:</u>

DOU1

• Completion of draw pit DP3 beside DOU1 PS

DOU2

• Complete of loading Test of DOU2A-P6

DOU5

• MCC Room construction at DOU5 PS in progress

<u>E&M</u>

- Isolation Device for Effluent Drop Shaft
 Installation (PST No.47/49, 48/50, 51/53, 52/54, 9/11, 17/19, 22/24, 40/42, 21/23, 36/38, 44/46, 30/32)
 - Smoke Test Completed (PST No. 52/54, 51/53, 47/49, 48/50)
 - Concrete repairing
- Sealant Installation
 - PST1/3 PST52/54, FT5, FT6, and MDC (completed)
 - DOU System of DOU1R, DOU1PS, DOU4PS
 - Mechanical installation in progress
- DOU System of DOU5PS and DOU2PS
 - FAT completed
- Air Relief Duct
 - Material deliver on site
- MgO Impregnated Activated Carbon
 - 45.5 ton delivered on site
 - 14.8 ton used in SCISTW

October 2020:

DOU1

• Strick Formwork for Trench Wall and Top Slab

DOU1R

• Excavation Draw pit 8

DOU2

• Rebar fixing for Pipe Cap

DOU4

• Plaster MCC Room internal wall

DOU5

• Precast for Draw pit at DOU 5 PS.

<u>E&M</u>

- Isolation Device for Effluent Drop Shaft
 - Installation (PST No.47/49, 48/50, 51/53, 52/54)
 - Smoke Test Completed (PST No. 9/11, 17/19, 21/23, 22/24, 29/31, 30/32, 36/38, 40/42, 44/46, 47/49, 48/50, 51/53, 52/54)
 - Concrete repairing
- Sealant Installation
 - PST1/3 PST52/54, FT5, FT6, and brush-type sealant in progress
- DOU System of DOU1R, DOU1PS, DOU4PS
 - Mechanical installation in progress
- DOU System of DOU5PS and DOU2PS
 - Deliver on site
- Air Relief Duct
 - Arrange installation
 - MgO Impregnated Activated Carbon
 - 89.5 ton delivered on site (88.6 ton contract)
 - 15.8 ton used in SCISTW

November 2020:

DOU1

• Erector Formwork for Wall at MCC Room & Bund Wall

DOU1R

• Backfilling for Draw pit & Sump pit

DOU2

• Erector Formwork for Wall at MCC Room & Bund Wall

DOU4

• Plaster for tesonproof at MCC ROOM

<u>DOU5</u>

• Fixing of Steel reinforcement

<u>E&M</u>

- Isolation Device for Effluent Drop Shaft
 - Smoke Test Completed (PST No.47/49, 48/50, 51/53, 52/54)
 - Installation (PST No. 9/11, 17/19, 21/23, 22/24, 29/31, 30/32, 36/38, 40/42, 44/46, 47/49, 48/50, 51/53, 52/54)
 - Concrete repairing (PST No. 13/15, 25/27, 35/37, 39/41, 43/45, 14/16, 18/20)

- Sealant Installation
 - PST1/3 PST52/54, FT5, FT6, MDC and brush-type sealant in progress
 - DOU System of DOU1R, DOU1PS, DOU4PS
 - Mechanical installation in progress
- Air Relief Duct
 - Arrange installation

Environmental Monitoring Works

- 3. The environmental monitoring works of the Project were conducted by the ET for Contract DC/2009/10, at the SCISTW under HATS 2A with the same Environmental Permit. All the environmental monitoring works were conducted in accordance with the EM&A Manual. The monitoring results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 4. Summary of the non-compliance of the reporting quarter is tabulated in **Table I**.

Monitored Monitoring		Parameter	No. of Exceedance		No. of Exceedance Due to the Project		Action
By	U		Action Level	Limit Level	Action Level	Limit Level	Taken
		1-hr TSP	0	0	0	0	N/A
	AM6a	24-hr TSP	0	0	0	0	N/A
	AM6b	1-hr TSP	0	0	0	0	N/A
		24-hr TSP	0	0	0	0	N/A
DC/2009/10	NM5	Noise	0	0	0	0	N/A
	NM6	Noise	0	0	0	0	N/A
	AM7	1-hr TSP	0	0	0	0	N/A
	AM/	24-hr TSP	0	0	0	0	N/A
	AM8	1-hr TSP	0	0	0	0	N/A
		24-hr TSP	0	0	0	0	N/A

 Table I
 Summary Table for Non-compliance Recorded in the Reporting Quarter

1-hour TSP Monitoring

5. All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

24-hour TSP Monitoring

6. All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

Construction Noise

7. All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

8. Licenses/Permits granted to the Project include the Environmental Permit (EP); Billing account

for Disposal of Construction Waste, Registered as Chemical Waste Producer and Construction Noise Permits.

Environmental Mitigation Implementation Schedule

9. According to the EIA Report Section 3.74, 4.56 and 13.44, air quality, noise and landscape and visual would be the key environmental issues and mitigation measures shall be implemented during the construction phase. Details of the implementation of mitigation measures are provided in the **Appendix G**.

Key Information in the Reporting Quarter

10. Summary of key information in the reporting quarter is tabulated in Table II.

Event		Event Details	Action	Status	Remark	
Event	Number Nature		Taken	Status	Keinai k	
Complaint received	0		N/A	N/A		
Status of submissions covering the reporting quarter	3	Monthly EM&A Reports from August, September and October 2020	Submitted to IEC for verification	No Comment		
Notifications of any summons & prosecutions received	0		N/A	N/A		

 Table II
 Summary Table for Key Information in the Reporting Quarter

Summary of Complaints and Prosecutions

- 11. No environmental complaint and prosecution was received for the Project in the reporting quarter.
- 12. There were no environmental complaint and prosecution received since the commencement of the Project. The Complaint Log is presented in **Appendix H.**
- 13. The environmental concerns in the coming months are mainly on construction waste, chemical and general refuse storage; dust generated from the excavated dusty materials.

1. INTRODUCTION

Background

- 1.1 The Project 'Enhancement of Deodourisation System at SCISTW' under Contract No: DE/2018/17 mainly comprises the following major works:
 - Construction of foundation for enhanced deodourisation system;
 - Design, supply, installation, testing and commissioning of enhanced deodourisation systems and associated accessories;
 - Enhancement of isolation devices at chemically enhanced primary treatment (CEPT) tanks;
 - Modification of air ducts at CEPT tanks;
 - Enhancement of sealing performance of existing covers for CEPT tanks; and
 - Any associated works as necessary to complete the above items.
- 1.2 The general location plan of the Project is shown in **Figure 1**.
- 1.3 The Project is under Harbour Area Treatment Scheme (HATS) Stage 2A and is a designated project with Register No. : AEIAR-121/2008. The current works under the Project at SCISTW for HATS 2A are covered by the Environmental Permit (Permit No. EP-322/2008/G), which was issued on 9th May 2014 by the Environmental Protection Department (hereinafter called EPD) to the Drainage Services Department (hereinafter called the DSD) as the Permit Holder.
- 1.4 The environmental monitoring works in the Project were covered by the ET for the Contract: DC/2009/10.
- 1.5 Bestwise SFK Joint Venture (hereafter called the BSJV) was commissioned by the DSD to undertake the construction of the Contract No. DE/2018/17 "Enhancement of Deodourisation System at SCISTW". The date of commencement of construction of the Project is 9th July 2019.
- 1.6 Wellab Limited was commissioned by BSJV to undertake the Environmental Monitoring and Audit (EM&A) works for the project and was appointed as the Environmental Team (ET) of the Project under Condition 2.1 of the EP. The date of commencement of EM&A works is 2nd September 2019. The Project cover the environmental monitoring works at monitoring stations AM6a, AM6b, AM7, AM8, NM5 and NM6.
- 1.7 This is the 5th quarterly EM&A report summarizing the EM&A works conducted for the Project in September to November 2020.

Project Organizations

1.8 The contacts of the Project are shown in **Table 1.1** and the organization chart of ET for Contract is shown in **Figure 2**.

	Te 1.1 Key 1 Toject Contacts				
Party	Role	Name	Position	Phone No.	
Ove Arup & Partners Hong	Project Management's	Mr. Edmund Chow	Senior Resident Engineer	2370 4311	
Kong Ltd	Representative	Mr. Kevin Cheung	ER's Coordinator	3925 6506	
Wellab	Environmental	Dr. Priscilla Choy	ET Leader	2151 2089	
Team		Mr. Howard Chan	Project Coordinator	2151 2073	
Mott MacDonald	Independent Environmental Checker	Dr. Anne Kerr	Independent Environmental Checker	2828 5757	
Bestwise – SFK Joint Contractor Venture		Mr. Ken Chan	Site Agent	2620 0070	
		Mr. Leo Leung	Environmental Officer	2620 0070	

Summary of EM&A Requirements

- 1.9 The EM&A programme requires construction phase monitoring for air quality and construction noise, landscape and visual and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.
- 1.10 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 4** of this report.
- 1.11 This report presents the monitoring results, observations, locations, equipment, period, for required monitoring parameter namely air quality, noise and audit works conducted for the Project for September to November 2020.

2. AIR QUALITY

Monitoring Requirements

2.1 1-hour and 24-hour TSP monitoring were conducted to monitor the air quality. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 Three designated monitoring stations, AM6a, AM7 and AM8 were selected for impact dust monitoring for the Project. As informed by the Contractor, part of Portion 7 was handed over to DSD in late October 2020, the monitoring location AM6a was not available for future monitoring. The previous location of AM6a was relocated to the monitoring station AM6b on 20th October 2020 after handover of part of Portion 7. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 1**.

 Table 2.1
 Locations for Air Quality Monitoring

Monitoring Station	Monitored by	Location of Measurement
AM6a		Works site boundary
AM6b ⁽¹⁾	DC/2000/10	Works site boundary
AM7	DC/2009/10	North West Kowloon Sewage Pumping Station
AM8		Block A of Government Dockyard

Remark:

(1) AM6b – The pervious location of AM6a was relocated after handover of part of Portion 7.

Monitoring Parameters, Frequency and Duration

2.3 **Table 2.2** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting period could be referred in **Appendix C** in the monthly reports for the Contract DC/2009/10.

 Table 2.2
 Impact Dust Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter	Period	Frequency
All monitoring	1-hour TSP	0700-1900 hrs	3 times/ every 6 days
locations	24-hour TSP	0000-2400 hrs	once in every 6 days

Monitoring Methodology and QA/QC Procedure

- 2.4 The monitoring methodology and QA/QC procedures are presented in Section 2.5 2.15 of monthly report of Contract DC/2009/10.
- 2.5 The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staff's observation on the monitoring day.

Results and Observations

- 2.6 All 1-hour and 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded. Summary of exceedance is presented in **Appendix B**.
- 2.7 The graphical plots of the 1-hour and 24-hour TSP monitoring results are shown in **Appendix C**.

2.8 According to field observations during site inspection, the identified dust sources at the monitoring stations were mainly from loading of material, vehicles movement, dust generation from the excavated dusty materials and construction works of other Contract and this Contract in the site.

3. NOISE

Monitoring Requirements

3.1 Two noise monitoring stations, namely NM5 and NM6 was designated in the EM&A Manual for impact monitoring. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2 Noise monitoring was conducted at two designated monitoring stations as listed in **Table 3.1**.

Table 3.1Location	of Noise Monitoring Stations
-------------------	------------------------------

Monitoring Station	Monitored By	Location of Measurement
NM5		Near FSD Diving Rescue and Training Centre
NM6	DC/2009/10	Customs' Marine Base (Block H of Government Dockyard) Rooftop

Monitoring Parameters, Frequency and Duration

3.3 **Table 3.2** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule for the reporting period could be referred in **Appendix C** in the monthly reports for the Contract DC/2009/10.

Monitoring Stations	Parameter	Period	Frequency		
NM5 NM6	L _{eq} (30 min.) dB(A)	0700-1900 hrs. on weekdays	Weekly		
	L _{eq} (5 min.) dB(A)	During restricted hours	Weekly Monitoring to be conducted during the construction works		

Monitoring Methodology and QA/QC Procedures

3.4 The monitoring methodology and QA/QC procedure could be referring to Section 3 of the monthly report for Contract DC/2009/10.

Results and Observations

- 3.5 The construction noise monitoring at the designated location was conducted by the ET of Contract DC/2009/10 as scheduled in the reporting quarter. The Graphical presentation of the noise monitoring result was shown in **Appendix D**.
- 3.6 No Action/Limit Level exceedance was recorded in the reporting quarter. Summary of exceedance is presented in **Appendix B.**
- 3.7 The major noise sources identified at the designated noise monitoring stations were generated by on-site vehicle movement and construction equipment from the Project, as well as construction activities from other and this Contract in Stonecutter Island STW.

4. **ENVIRONMENTAL AUDIT**

Site Audits

- 4.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 4.2 13 environmental site audits were conducted by ET and 3 IEC site audits were conducted for the Project in reporting quarter. No non-compliance was observed during the site audits.
- 4.3 Site inspections were undertaken to ensure and check that the implementation and maintenance of landscape and visual mitigation measures are being properly carried out in the reporting quarter in accordance to section 14.1 of the EM&A Manual. No non-compliance was observed during the site inspections.

Review of Environmental Monitoring Procedures

4.4 The monitoring works were conducted by the monitoring teams of Contract DC/2009/10. The monitoring procedures have been reviewed monthly.

Status of Environmental Licensing and Permitting

4.5 All permits/licenses obtained for the Contract DC/2009/10 are summarized in **Table 4.1**.

Reference	Valid Period		D-4-1-	G4 4					
Number	From	То	Details	Status					
Water Discha	Water Discharge License								
WT00035198- 2019	15/1/2020	31/1/2025	The application was approved on 15-1-2020.	Valid					
Registered Cl	hemical Wasi	te Producer	•						
WPN5213- 269-B2565-01	N/A	N/A	The application was approved on 14-8-2019.	Valid					
Billing Accou	Billing Account for Disposal of Construction Waste								
CSW03680	6/8/2019	N/A	The application was approved on 6-8-2019.	Valid					
Notification of	of Works Und	ler APCO							
447348 N/A N/A		N/A	Notice form received by EPD on 17-7-2019.	N/A					
Construction	Noise Permi	t	•						
GW- RW0092-20	27/03/2020	26/09/2020	The application was approved on 13-3-2020.	Expired					
GW- RW0442-20	2/10/2020	26/3/2021	The application was approved on 25/9/2020.	Valid					

 Table 4.1
 Summary of Environmental Licensing and Permit Status

Waste Management Status

4.6 The amount of Inert and Non Inert wastes generated by the construction activities of the Project in the reporting quarter is summarized in the waste flow table as shown in **Appendix E**.

Implementation Status of Environmental Mitigation Measures

- 4.7 Details of the implementation of mitigation measures are provided in the **Appendix G**.
- 4.8 During the weekly environmental site inspections in the reporting period, no non-

conformance was identified. The observations of the site audit for the Projects are summarized in Table 4.2a-c.

Parameters	Ref. Number	Observations	Follow Up Action		
Water	200910-R01	Wheel wash facility should be provided at the site exits.	Wheel wash facility was provided at the site exits.		
Quality	200910-R03	Vehicles should be cleaned of earth, mud and debris before leaving the site.	Vehicles were cleaned before leaving the site.		
	200827-R01	Executed ducty meterials should be	Excavated dusty materials was cleared.		
Air Quality	200903-R01	Excavated dusty materials should be covered by impervious materials.	Excavated dusty materials were covered by impervious materials.		
	200924-R01	The road around site entrance should be kept clean and free from dust.	The road around site entrance was kept clean and free from dust.		
Waste/	200903-R02		Item was remarked as 200910-R02.		
Chemical Management	200910-R02	Drip trays should be provided for chemical storage.	Item was remarked as 200916-R01.		
	200916-R01		Chemical was removed.		
Landscape and Visual	N/A	There was no observation in the reporting month.	N/A		
Noise	N/A There was no observation in the reporting month.		N/A		
Permit/ Licenses	N/A	There was no observation in the reporting month. N/A			

Table 4.2b: Observations and Recommendations of Site Audits (October 2020)

Parameters	Ref. Number	Observations	Follow Up Action	
Water Quality	N/A	There was no observation in the reporting month.	N/A	
Air	201015-R01	Excavated dusty materials should be covered by impervious materials.	Improvises materials was provided to cover the excavated dusty materials	
Quality	201029-R01	NRMM Label was observed faded. Contractor was reminded to replace the NRMM Label	Follow-up action will be reported in next reporting period.	
Waste/	201008-R01	Conserved reafines should be disposed of	General refuse was disposed of regularly and properly.	
Chemical Management	201029-R02	General refuse should be disposed of regularly and properly.	Follow-up action will be reported in next reporting period.	
Landscape and Visual	N/A	There was no observation in the reporting month.	N/A	
Noise	N/A	There was no observation in the reporting month.	N/A	
Permit/ Licenses	N/A	There was no observation in the reporting month.	N/A	

Parameters	Ref. Number	Observations	Follow Up Action	
Water Quality	N/A	There was no observation in the reporting month.	N/A	
	201029-R01	NRMM Label was observed faded. Contractor was reminded to replace the NRMM Label	The aerial work platform was removed from the site.	
Air	201105-R01	NRMM label was observed faded. Contractor was reminded to replace the NRMM label.	Item was remarked as 201112-R01.	
Quality	201105-R02	Stockpile of dusty materials should be covered by impervious materials.	Stockpile of dusty materials was covered by impervious materials.	
	201112-R01	NRMM label was observed faded. Contractor was reminded to replace the NRMM label.	The generator was removed.	
Waste/ Chemical Management	201029-R02	General refuse should be disposed of regularly and properly.	General refuse was disposed of properly.	
Landscape and Visual	N/A	There was no observation in the reporting month.	N/A	
Noise	N/A	There was no observation in the reporting month.	N/A	
Permit/ Licenses	N/A	A There was no observation in the reporting month. N/A		

Table 4.2c: Observations and Recommendations of Site Audits (November 2020)

Implementation Status of Event Action Plans

4.9 The Event Action Plans for air quality and noise are presented in **Appendix F.**

<u>1-hr TSP</u>

4.10 No Action/Limit Level exceedance was recorded in the reporting quarter.

<u>24-hr TSP</u>

4.11 No Action/Limit Level exceedance was recorded in the reporting quarter.

Construction Noise

4.12 No Action/Limit Level exceedance was recorded in the reporting quarter.

Landscape and Visual

4.13 No non-compliance was recorded in the reporting quarter.

Summary of Complaints and Prosecutions

- 4.14 No environmental complaint and prosecution was received for the Project in the reporting quarter.
- 4.15 There were no environmental complaint and prosecution received since the commencement of the Project. The Complaint Log is presented in **Appendix H**.

5. FUTURE KEY ISSUES

Key Issues for the Coming Months

- 5.1 Key environmental issues in the coming months include:
 - Storage of chemicals/fuel and chemical waste/waste oil on-site;
 - Leakage of oil from equipment;
 - Dust generation should be mitigated by adequate water spraying, especially in dry days;
 - Stockpile should be properly covered by tarpaulin or impervious materials to mitigate dust generation;
 - Noise from operation of equipment and machinery on-site;
 - Silty surface runoff generated from the site area; and
 - Silt and dust getting into the public area by the leaving site vehicles at the site exits without adequate wheel washing facilities.

Construction Program for the Coming Quarter

5.2 The tentative construction program is provided in **Appendix I.**

6. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

6.1 Environmental monitoring and audit works were performed in the reporting quarter and all monitoring results were checked and reviewed.

1-hour TSP Monitoring

6.2 All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

24-hour TSP Monitoring

6.3 All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

6.4 All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

Environmental Audit

6.5 Environmental site audits were conducted as weekly basis in the reporting quarter. No noncompliance was recorded.

Complaint and Prosecution

6.6 No environmental complaint and prosecution was received in the reporting quarter.

Recommendations for the coming reporting period:

6.7 The following recommendations were made for the coming reporting period:

Air Quality

- To provide adequate water spray on site;
- To mitigate dust generation by adequate water spraying or covering by tarpaulin during dry days;
- To regularly maintain the machinery and vehicles on site;
- To follow up any exceedance caused by the construction works; and
- Non-Road Mobile Machinery (NRMM) labels must be demonstrated on the registered equipment for inspection.

Noise

- To inspect the noise sources inside the site;
- To follow up any exceedance caused by the construction works;
- To space out noisy equipment and position the equipment as far away as possible from

sensitive receivers;

- To provide temporary noise barriers for operations of noisy equipment near the noise sensitive receivers in an appropriate location.
- To provide adequate lubricant on mechanical equipments to reduce frictional noise; and
- To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance.

Water Quality

- To identify any discharge of wastewater from the construction site;
- To provide adequate temporary drainage system with adequate capacity;
- To provide adequate wastewater treatment facilities to treat the wastewater generated during construction works and heavy rain;
- To properly cover the stockpile and slope to prevent the generation of surface runoff; and
- To avoid water accumulation on site and carry out larviciding against mosquito breeding for stagnant water when mosquito larvae are observed.

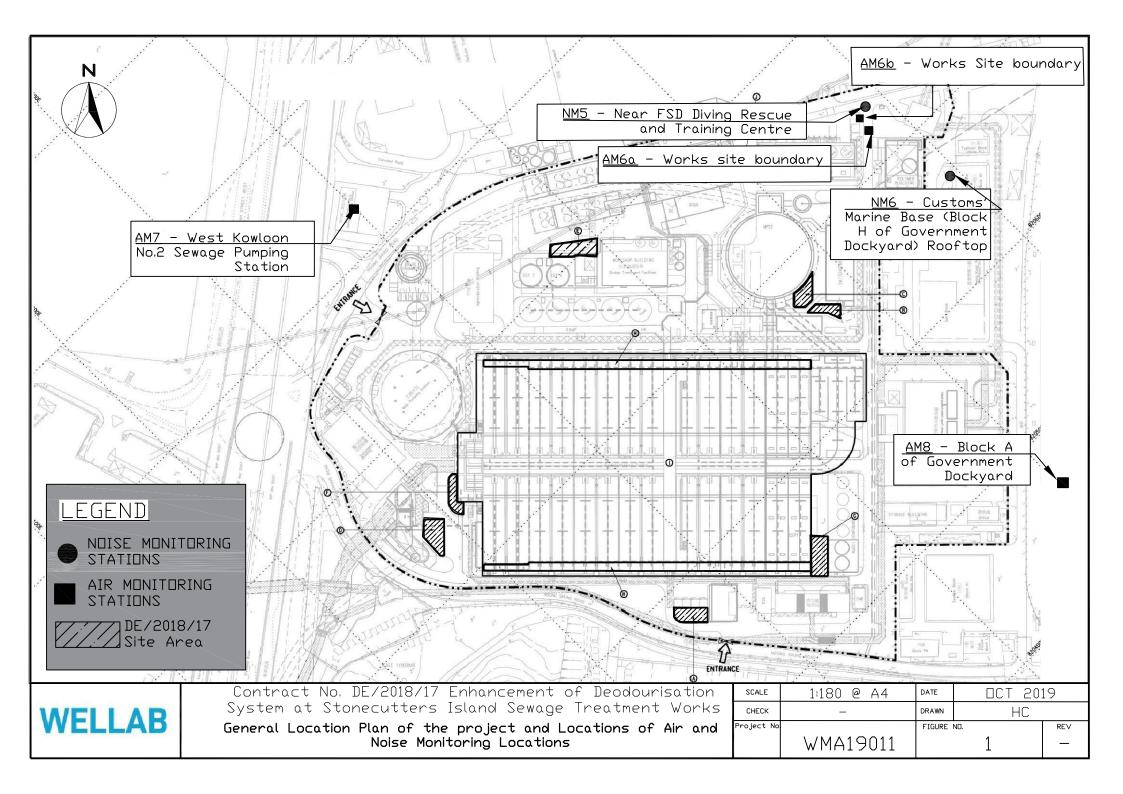
Waste/Chemical Management

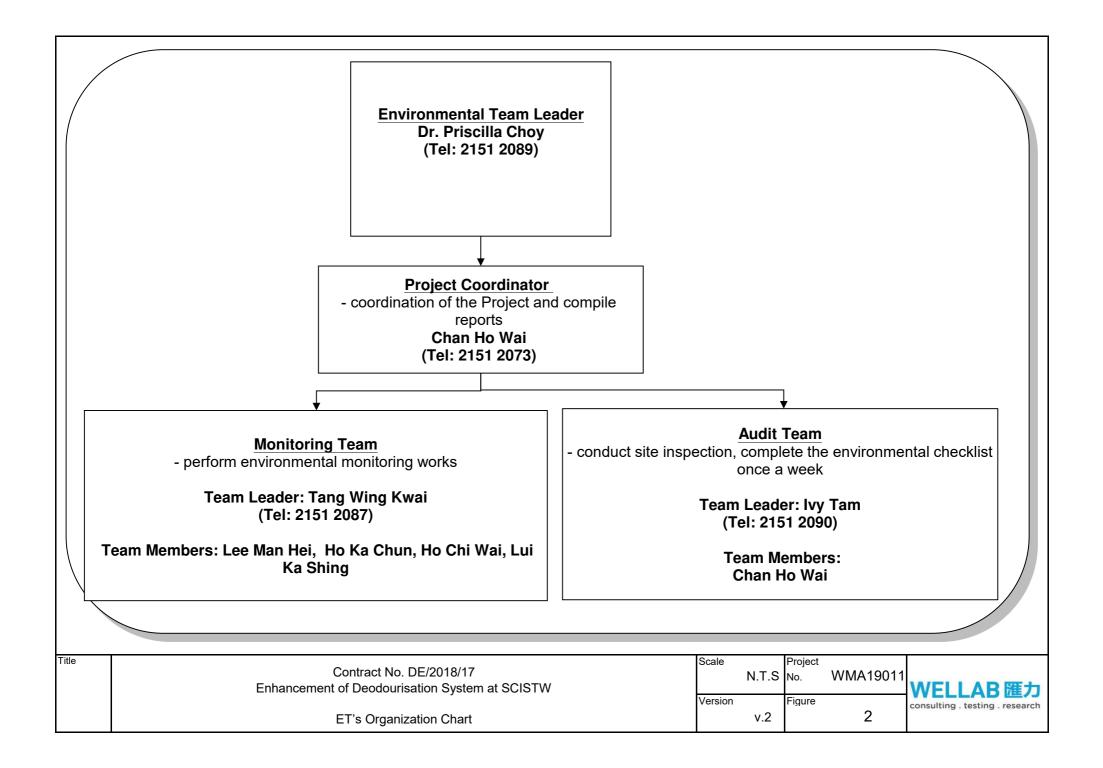
- To provide proper rubbish bins / skips for waste collection;
- To check for any accumulation of wasted materials or rubbish on site;
- To provide adequate chemical waste storage area on site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment; and
- To avoid improper handling or storage of oil drum on site.

Landscape and Visual

- To erect and maintain the protection fence around the retaining tree; and
- To avoid any heavy materials placed into tree protection zone.

FIGURES





APPENDIX A ACTION AND LIMIT LEVELS FOR AIR QUALITY AND NOISE QUALITY

Appendix A Action and Limit Levels

Table A-1Action and Limit Levels for 1-Hour TSP and 24-Hour TSP

Monitoring Stations	Action Le	vel (µg/m ³)	Limit Level (µg/m ³)		
Monitoring Stations	1-hour	24-hour	1-hour	24-hour	
AM6a	346	196	500	260	
AM6b	346	196	500	260	
AM7	322	207	500	260	
AM8	307	158	500	260	

Table A-2 Action and Limit Level for Construction Noise

Monitoring Stations	Time Period	Action Level	Limit Level in dB(A)
	0700-1900 hours on normal weekdays	When one documented complaint is received	75
NM5 NM6	Evening Time of normal weekdays and General Holidays: All days during the evening (1900 to 2300 hours), and general holidays (including Sundays) during the day- time and evening (0700 to 2300 hours)	N/A	70(1)

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

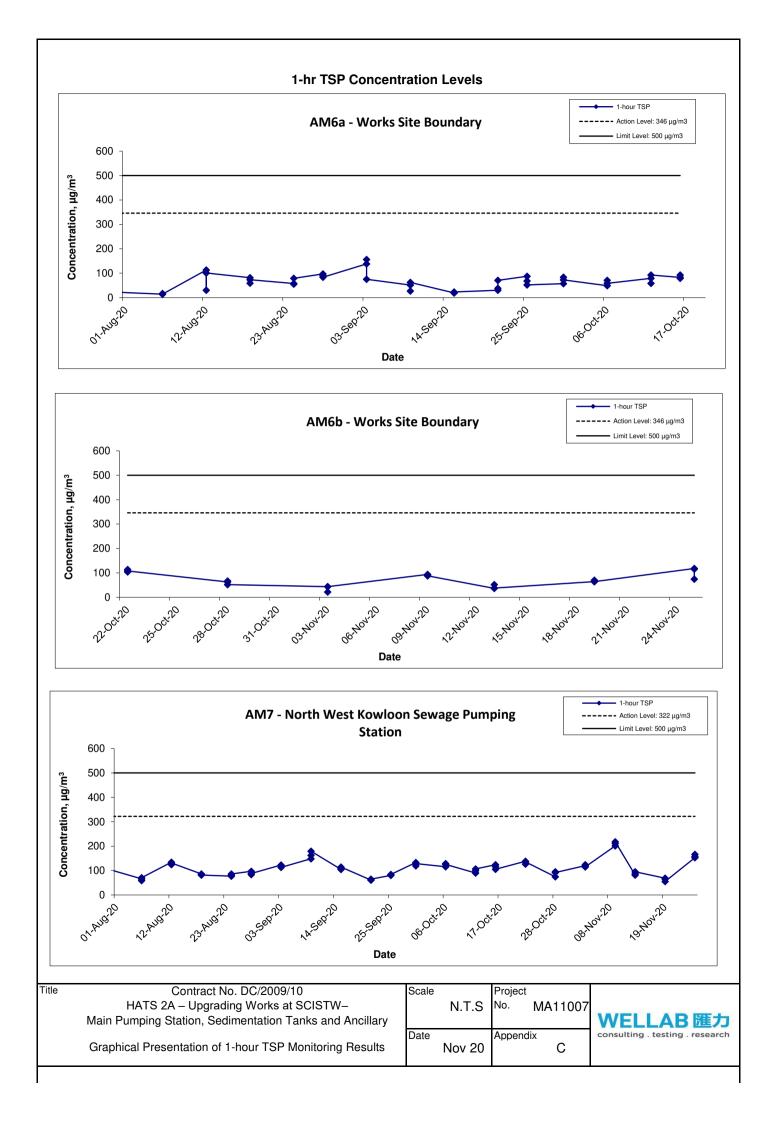
APPENDIX B SUMMARY OF EXCEEDANCE

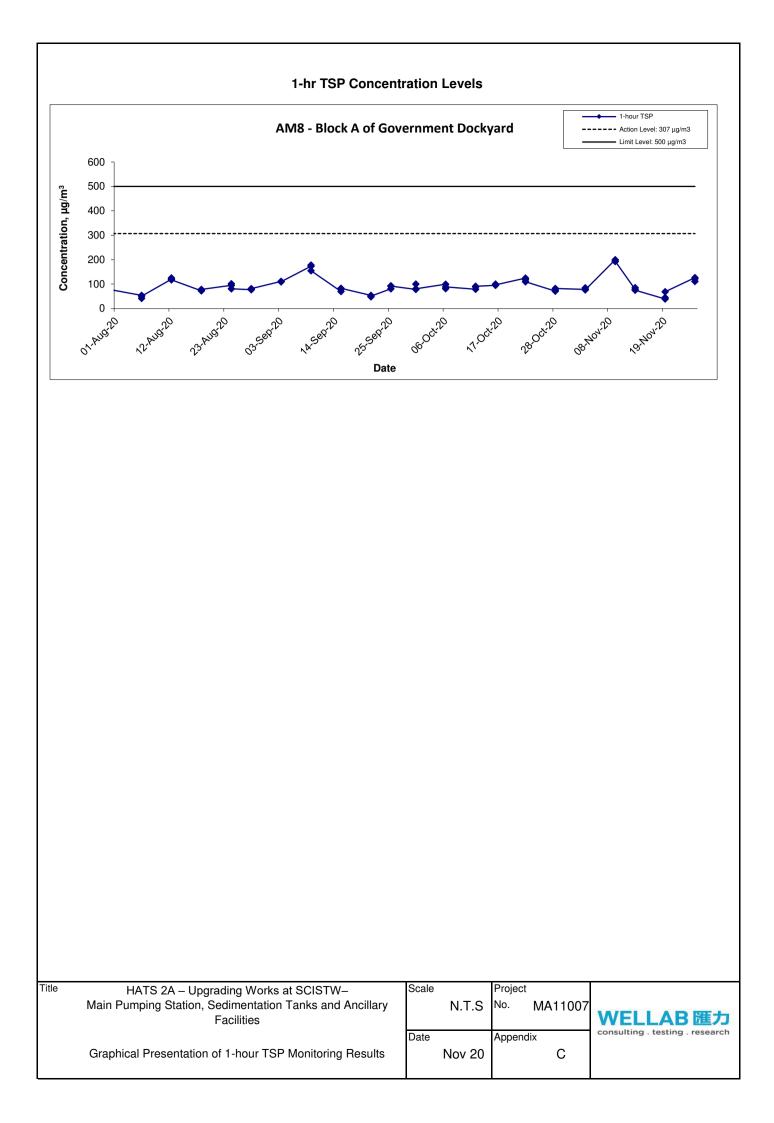
APPENDIX B – SUMMARY OF EXCEEDANCE

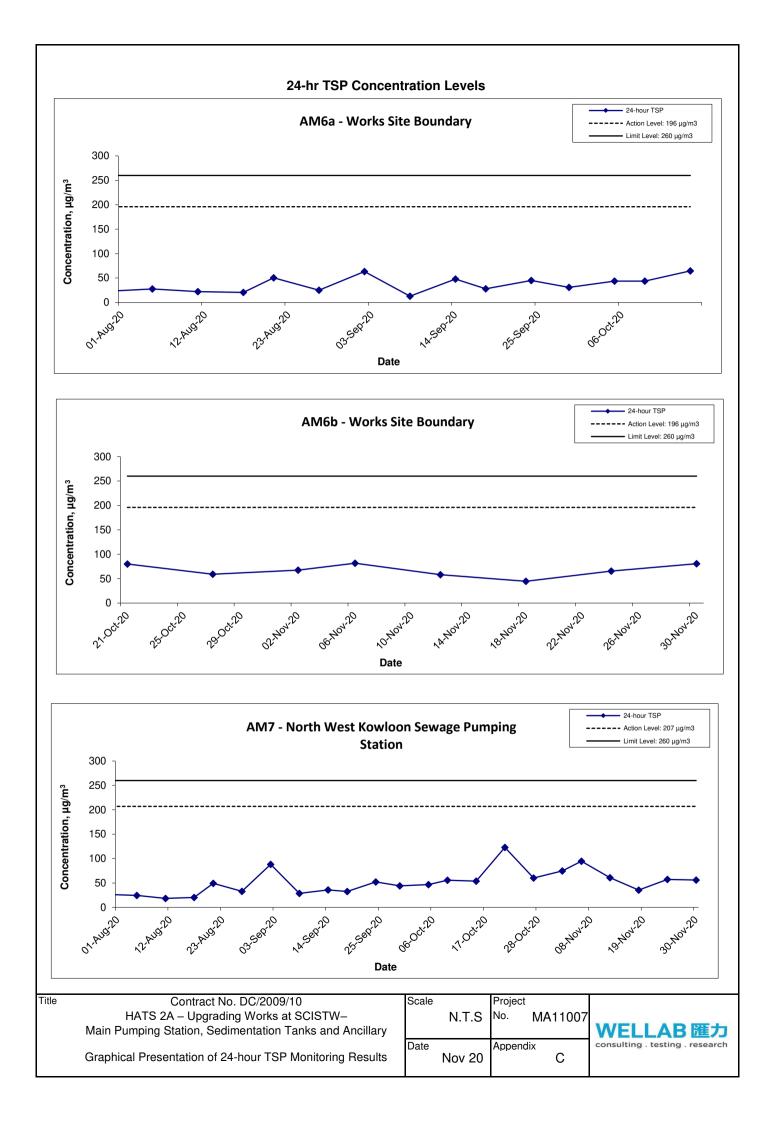
Reporting Quarter: September to November 2020

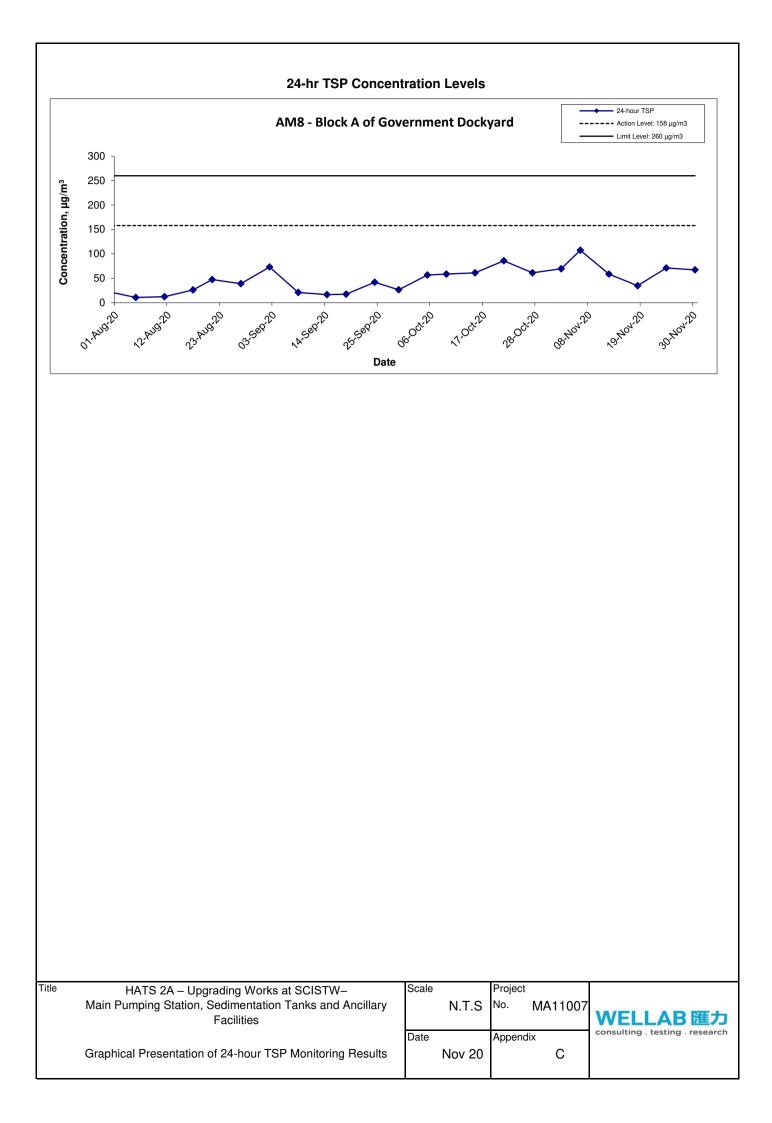
- a) Exceedance Report for 1-hr TSP (NIL)
- b) Exceedance Report for 24-hr TSP (NIL)
- c) Exceedance Report for Construction Noise (NIL)

APPENDIX C 1-HOUR AND 24-HOUR TSP GRAPHICAL PRESENTATION

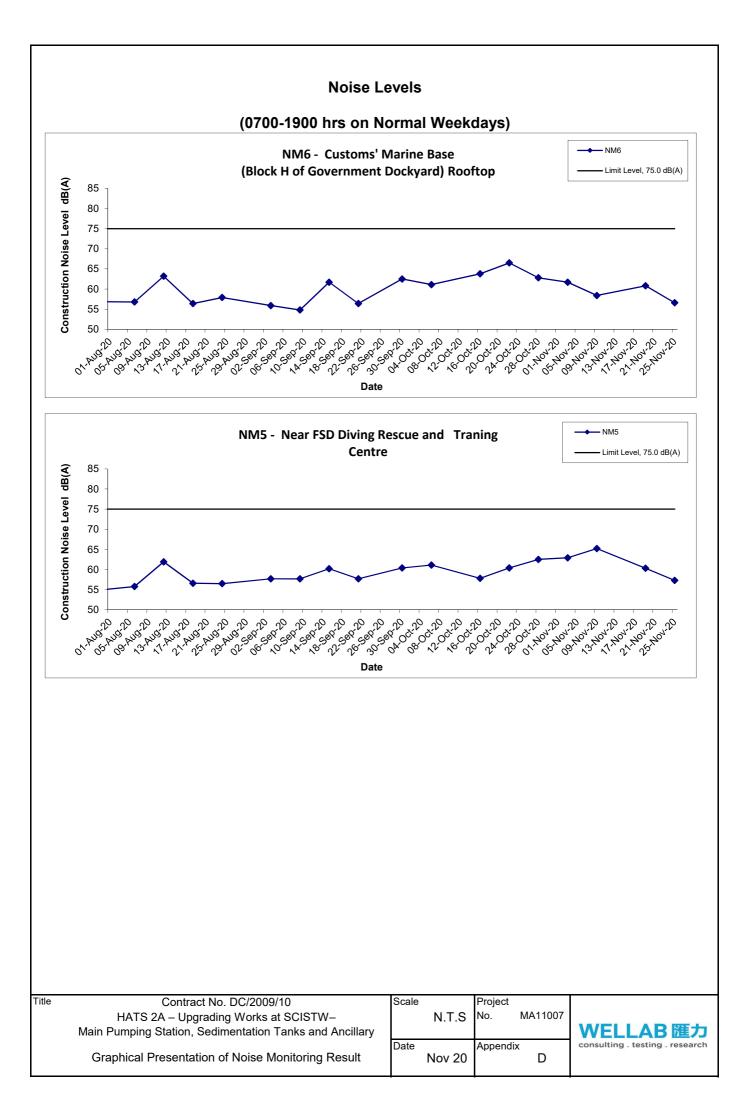








APPENDIX D NOISE MONITORING GRAPHICAL PRESENTATIONS



APPENDIX E SUMMARY OF AMOUNT OF WASTE GENERATED Name of Department:

DSD

Contract No. :

DE/2018/17

	Actual Quantities of inert C&D Materials Generated Monthly					Actual Quantities of C&D Materials Generated Monthly					
Month	Total Quantity	Hard Rock and Large	Reused in the	Reused in	Disposed as	Imported	Metals	Paper/	Plastics	Chemical	Other, e.g.
Monui	Generated	Broken Concrete	Contract	other Projects	Public Fill	Fill		cardboard	(see Note 3)	Waste	general refuse
	(In '000m ³)	(In '000m ³)	(In '000m ³)	(In '000m ³)	(In '000m ³)	(In '000m ³)	(In '000kg)	(In '000kg)	(In '000kg)	(In '000kg)	(In '000m ³)
Jan	0.209	0.016	0.000	0.000	0.209	0.000	0.000	0.284	0.000	0.000	0.001
Feb	0.210	0.045	0.000	0.000	0.210	0.000	0.000	0.583	0.000	0.000	0.001
Mar	0.436	0.025	0.000	0.000	0.436	0.000	0.000	0.000	0.000	0.000	0.003
Apr	0.431	0.098	0.000	0.000	0.431	0.000	0.000	0.576	0.000	0.000	0.000
May	0.314	0.000	0.000	0.000	0.314	0.000	0.000	0.000	0.000	0.000	0.010
June	0.098	0.000	0.000	0.000	0.098	0.000	0.000	0.656	0.000	0.000	0.007
Sub-total	1.699	0.184	0.000	0.000	1.699	0.000	0.000	2.099	0.000	0.000	0.022
July	0.112	0.000	0.000	0.000	0.112	0.000	0.730	0.000	0.000	0.000	0.007
Aug	0.238	0.000	0.000	0.000	0.238	0.000	0.000	0.639	0.000	0.000	0.002
Sep	0.605	0.000	0.000	0.000	0.605	0.000	0.000	0.000	0.000	0.000	0.003
Oct	0.142	0.000	0.000	0.000	0.142	0.000	0.000	0.531	0.000	0.000	0.010
Nov	0.345	0.000	0.000	0.000	0.345	0.000	0.000	1.015	0.000	0.000	0.009
Dec											
Total	3.140	0.184	0.000	0.000	3.140	0.000	0.730	4.284	0.000	0.000	0.052
Total since commence ment of project	3.646	0.399	0.000	0.000	3.646	0.000	12.260	5.872	0.000	0.000	0.054

Monthly Summary Waste Flow Table for 2020 (year)

Notes: (1) The performance targets are given in PS Clause 25.37(14).

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
 (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

(4) The conversion factor for tonne to m^3 for inert C&D materials is 1.9 tonne/m³.

(5) The conversion factor for tonne to m^3 for general refuse is 1.8 tonne/m³.

APPENDIX F EVENT ACTION PLANS

APPENDIX F – Event / Action Plans

Table F-1 Event / Action Plan For Air Quality

	ACTION			
EVENT	ET	IEC	ER	CONTRACTOR
ACTION LEVEL			·	·
1. Exceedance for	1. Identify source, investigate the	1. Check monitoring data	1. Notify Contractor.	1. Rectify any unacceptable
one sample	causes of exceedance and propose	submitted by ET;		practice;
	remedial measures;	2. Check Contractor's working		2. Amend working methods if
	2. Inform IEC and ER;	method.		appropriate.
	3. Repeat measurement to confirm			
	finding;			
	4. Increase monitoring frequency to			
	daily.			
2. Exceedance for	1. Identify source;	1. Check monitoring data	1. Confirm receipt of notification	1. Submit proposals for
two or more	2. Inform IEC and ER;	submitted by ET;	of failurein writing;	remedial to ER within 3
consecutive	3. Advise the ER on the	2. Check Contractor's working	2. Notify Contractor;	working days of notification;
samples	effectiveness of the proposed	method;	3. Ensure remedial measures	2. Implement the agreed
	remedial measures;	3. Discuss with ET and Contractor	properly implemented	proposals;
	4. Repeat measurements to confirm	on possible remedial measures;		3. Amend proposal if
	findings;	4. Advise the ET on the		appropriate
	5. Increase monitoring frequency to	effectiveness of the		
	daily;	proposed remedial measures;		
	6. Discuss with IEC and Contractor	5. Supervise Implementation of		
	on remedial	remedial measures.		
	actions required;			
	7. If exceedance continues, arrange			
	meeting with IEC and ER;			
	8. If exceedance stops, cease			
	additional monitoring			

	ACTION			
EVENT	ET	IEC	ER	CONTRACTOR
LIMIT LEVEL	·		·	•
1. Exceedance for	1. Identify source, investigate the	1. Check monitoring data	1. Confirm receipt of	1. Take immediate action to
one sample	causes of exceedance and propose	submitted by ET;	notification of failure in	avoid further exceedance;
	remedial measures;	2. Check Contractor's working	writing;	2. Submit proposals for
	2. Inform ER, Contractor and EPD;	method;	2. Notify Contractor;	remedial actions to IEC
	3. Repeat measurement to confirm	3. Discuss with ET and Contractor	3. Ensure remedial measures	within 3 working days of
	finding;	on possible remedial measures;	properly implemented	notification;
	4. Increase monitoring frequency to	4. Advise the ER on the		3. Implement the agreed
	daily;	effectiveness of the proposed		proposals;
	5. Assess effectiveness of	remedial measures;		4. Amend proposal if
	Contractor's remedial actions and	5. Supervise implementation of		appropriate
	keep IEC, EPD and ER informed of	remedial measures		
	the results.			
2. Exceedance for	1. Notify IEC, ER, Contractor and	1. Check monitoring data	1. Confirm receipt of	1. Take immediate action to
two or more	EPD;	submitted by ET;	notification of failure in	avoid further exceedance;
consecutive	2. Identify source;	2. Check Contractor's working	writing;	2. Submit proposals for
samples	3. Repeat measurement to confirm	method;	2. Notify Contractor;	remedial actions
	findings;	3. Discuss amongst ER, ET, and	3. In consolidation with the	to IEC within 3 working days
	4. Increase monitoring frequency to	Contractor on the potential	IEC, agree with the Contractor	of notification;
	daily;	remedial actions;	on the remedial measures to	3. Implement the agreed
	5. Carry out analysis of Contractor's	4. Review Contractor's remedial	be implemented;	proposals;
	working procedures to determine	actions whenever necessary to	4. Ensure remedial measures	4. Resubmit proposals if
	possible mitigation to be	assure their effectiveness and	properly implemented;	problem still not under

	ACTION				
EVENT	ET	IEC	ER	CONTRACTOR	
	implemented;	advise the ER accordingly;	5. If exceedance continues,	control;	
	6. Arrange meeting with IEC and	5. Supervise the implementation of	consider what portion of the	5. Stop the relevant portion of	
	ER to discuss the remedial actions	remedial measures.	work is responsible and	works as determined by the	
	to be taken;		instruct the Contractor to stop	ER until the exceedance is	
	7. Assess effectiveness of		that portion of work until the	abated	
	Contractor's remedial actions and		exceedance is abated.		
	keep IEC, EPD and ER informed of				
	the results;				
	8. If exceedance stops, cease				
	additional monitoring				

Table F-2 Event / Action Plan For Construction Noise

	ACTION			
EVENT	ET	IEC	ER	CONTRACTOR
Action Level	1. Notify ER, IEC and Contractor;	1. Review the investigation	1. Confirm receipt of	1. Submit noise mitigation
being	2. Carry out investigation;	results submitted by the ET;	notification of failure in writing;	proposals to IEC and ER;
exceeded	3. Report the results of investigation to	2. Review the proposed	2. Notify Contractor;	2. Implement noise mitigation
encould	the IEC, ER and Contractor;	remedial measures by the	3. In consolidation with the IEC,	proposals
	4. Discuss with the IEC and	Contractor and advise the ER	agree with the Contractor on the	
	Contractor on remedial measures	accordingly;	remedial measures to be	
	required;	3. Advise the ER on the	implemented;	
	5. Increase monitoring frequency to	effectiveness of the proposed	4. Supervise the implementation of	
	check mitigation effectiveness	remedial measures	remedial measures	
Limit Level	1. Inform IEC, ER, Contractor and	1. Discuss amongst ER, ET,	1. Confirm receipt of	1. Take immediate action to
being	EPD;	and	notification of failure in writing;	avoid further exceedance;
exceeded	2. Repeat measurements to confirm	Contractor on the potential	2. Notify Contractor;	2. Submit proposals for
executed	findings;	remedial actions;	3. In consolidation with the	remedial actions to IEC
	3. Increase monitoring frequency;	2. Review Contractor's	IEC, agree with the Contractor on	and ER within 3 working
	4. Identify source and investigate the	remedial	the remedial measures to be	days of notification;
	cause of exceedance;	actions whenever necessary	implemented;	3. Implement the agreed
	5. Carry out analysis of Contractor's	to assure their effectiveness	4. Supervise the implementation of	proposals;
	working procedures;	and advise the ER accordingly.	remedial measures;	4. Submit further proposal if
	6. Discuss with the IEC, Contractor		5. If exceedance continues,	problem still not under
	and ER on remedial measures		consider stopping the Contractor to	control;
	required;		continue working on that portion of	5. Stop the relevant portion
	7. Assess effectiveness of Contractor's		work which causes the exceedance	of works as instructed by
	remedial actions and keep IEC, EPD		until the exceedance is abated	the ER until the exceedance is
	and ER informed of the results;			abated
	8. If exceedance stops, cease			
	additional monitoring			

APPENDIX G ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

APPENDIX G IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
Α	Air Quality		
3.74	Skip hoist for material transport should be totally enclosed by impervious sheeting.	All construction sites	٨
	Vehicle washing facilities should be provided at every vehicle exit point.		*
	The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcore.		^
	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.		N/A
	Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.		٨
	Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.		^
	Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.		*
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.		٨
	Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit.		٨
	Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the 3 sides.		٨
	Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.		*
3.74	Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.	All construction sites	Λ

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
В	Airborne Noise		
4.56-	Use of quiet PME, movable barriers and acoustic mats.	All construction sites	٨
4.61			
4.67	Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.		^
	Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.		^
	Mobile plant, if any, shall be sited as far away from NSRs as possible.		٨
	Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum.		^
4.67	Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.		^
	Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.		^
С	Water Quality		
6.349 to 6.375	Construction Site Runoff and General Construction Activities The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage should be adopted where applicable.	All construction sites	*
6.376 6.377	Effluent Discharge There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD. Minimum distances of 100 m should be maintained between the discharge points of construction site effluent and the existing saltwater intakes. Accidental Spillage of Chemicals		л Л Л
	produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General)		

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
	Regulation should be observed and complied with for control of chemical wastes.		
6.378	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.		٨
6.379	 Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 		Λ
6.380	Construction Works in Close Proximity of Storm Drains or Seafront:	All construction sites	٨
	 To minimize the potential water quality impacts from the construction works located at or near any watercourse, the practices outlined below should be adopted where applicable. The use of less or smaller construction plants may be specified to reduce the disturbance to the storm water courses or marine environment. Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works. Stockpiling of construction materials and dusty materials should be covered and located away from any water courses. Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers. Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable. Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert or sea. 		

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			

D	Waste Management		
9.107	Reusable steel or concrete panel shutters, fencing and hoarding and signboard should be used as a preferred alternative to items made of wood, to minimize wastage of wood. Attention should be paid to WBTC No. 19/2001 - Metallic Site Hoardings and Signboards to reduce the amount of timber used on construction sites. Metallic alternatives to timber are readily available and should be used rather than new timber. Precast concrete units should be adopted wherever feasible to minimize the use of timber formwork.		٨
9.109	 All waste materials should be segregated into categories covering: excavated materials suitable for reuse on-site; excavated materials suitable for public filling facilities; remaining C&D waste for landfill; chemical waste; and general refuse for landfill. 	All construction sites	۸
9.113	Sort C&D waste from demolition of existing facilities to recover recyclable portions such as metals.		۸
	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.		٨
	Encourage collection of aluminum cans, PET bottles and paper by providing separate labeled bins to enable these wastes to be segregated from other general refuse generated by the work force.		٨
	Any unused chemicals or those with remaining functional capacity shall be recycled.		٨
	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.		*
9.115	Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.		۸
	Training of site personnel in proper waste management and chemical waste handling procedures.		^
9.115	Develop and provide toolbox talk for on-site sorting of C&D materials to enhance worker's awareness in handling, sorting, reuse and recycling of C&D materials.		۸
	Provision of sufficient waste disposal points and regular collection of waste.		٨
	Regular cleaning and maintenance programme for drainage systems, sumps and oil		۸

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
	1		
	interceptors.		
9.125	Bentonite slurries used in diaphragm wall construction should be reconditioned and reused wherever practicable. The disposal of residual used bentonite slurry should follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage".	All construction sites	٨
9.131	Adequate number of portable toilets at temporary works areas or the PTWs to ensure that sewage from site staff would be properly collected.		٨
9.133	General refuse should be stored in enclosed bins, skips or compaction units separating from C&D material and disposed of at designated landfill.		*
9.135	The recyclable component of the municipal waste generated by the workforce, such as aluminum cans, paper and cleansed plastic containers should be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste should be set up by the Contractor. The Contractor should also be responsible for arranging recycling companies to collect these materials.		Λ
9.137	If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a chemical waste producer and to follow the guidelines 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, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the approved Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.		Λ
9.142	Prior to excavation of the marine deposit layer, the deposit should be tested in accordance with the ETWB TC(W) No. 34/2002 and the results should be presented in a Preliminary Sediment Quality Report. The marine deposit should be disposed of at the disposal site designated by the Marine Fill Committee (MFC) or Director of Environmental Protection (DEP) depending on the test results.		N/A

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			

Е	Terrestrial Ecology		
10.94	To implement effective noise mitigation measures as recommended in Section 4 of EIA.	All construction sites	N/A
10.95	Dust control practices such as regular watering, complete coverage of any aggregate or dusty material storage piles, and re-schedule of dusty activities during high-wind conditions as well as other measures recommended in Section 3 of EIA, should be implemented.	-	۸
10.96	Fences/hoardings should be erected and installed along the boundary of the works areas.		٨
10.97	Standard good site practices as suggested in Section 10 of EIA should be implemented.		N/A
10.98	Provision of proper drainage system and runoff control measures such as use of sand/silt traps, oil/grease separators, sedimentation tanks, etc.	-	٨
F	Landscape and Visual		
Table 13.7	soil, where identified, should be stripped and stored for re-use in the construction of All construction sites soft landscape works, where practical.	All construction sites	۸
	Existing trees to be retained on site should be carefully protected during construction.		٨
	Trees unavoidably affected by the works should be transplanted where practical.	1	۸
	Compensatory tree planting should be provided to compensate for felled trees.		٨
	Control of night-time lighting.	-	٨
Table 13.7	Erection of decorative screen hoarding compatible with the surrounding setting.	All construction sites	N/A
G	Marine Ecology		
11.137	To minimize the potential indirect impacts on water quality from construction site runoff and various construction activities, the practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted.		^
Н	Hazard to Life		
14A.201	Limiting use of cranes in terms of locations, lifting height, swing angle and setting up safety zone.	Exact location will be determined on construction site by the engineer	٨

Remarks:	 Compliance of mitigation measure;
	N/A Not Applicable;
	* Recommendation was made during site audit but
	improved/rectified by the contractor.
	# Recommendation was made during site audit and to be
	improved / rectified by the contractor.
	X Non-compliance of mitigation measure;
	Non-compliance but rectified by the contractor;

APPENDIX H COMPLAINT LOG

APPENDIX H – COMPLAINT LOG

Reporting Quarter: September to November 2020

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Remarks: No environmental complaint was received in the reporting quarter.

APPENDIX I CONSTRUCTION PROGRAMME

		Complete		Duration allowance				Q3 Q4	
/orks Pro	gramme (First Programme)								
Contract P	Particulars						-		+
KD0001	Starting date of Project	0%	0	0	09-Jul-19*			Starting date of Project	
KD0005	Completion Date (665 days)	0%	0	0		03-May-2			1 1
Key Dates							-		-
KD0010	Starting date of Project	0%	0	0	09-Jul-19*		• 5	Starting date of Project	
KD0020	KD A - Completion of all other works including DOUs 1, 2, 4, 5 Polishing stages for FSI (540 days)	0%	0	0		29-Dec-20*			
Access Da	te of Part of the Site						1	09-Jul-19, Access Date of Part of t	the Site
A1090	PartA-L	0%	0	0	09-Jul-19		- 📥 F	Part <mark>A</mark> -L	
reliminar	y and General Requirements							19-Aug-19, Preliminary	
PG00010	Statutory application/ notification of EPD and LD	0%	11	21 0	09-Jul-19	29-Jul-19	-	Statutory application/ notifica	ation of E
PG00020	Submission of Safety plan	0%	11	21 0	09-Jul-19	29-Jul-19		Submission of Safety plan	
PG00030	Approval of Safety Plan	0%	11	21 0	30-Jul-19	19-Aug-19		Approval of Safety Plan	
PG00040	Submission of Waste Management Plan/ Environmental Management plan	0%	11	21 0	09-Jul-19	29-Jul-19		Submission of Waste Manage	
PG00050	Approval of Waste Management Plan/ Environmental Management plan	0%	11	14 0	30-Jul-19	12-Aug-19		Approval of Waste Manage	
PG00060 PG00070	Submission of Subcontractor Management Plan Approval of Subcontractor Management Plan	0%	112 112	14 0 14 0	09-Jul-19 23-Jul-19	22-Jul-19 05-Aug-19	1 de	Approval of Subcontractor N	
PG00070	Submission of Staffing Proposal	0%	7	14 0	09-Jul-19	22-Jul-19		Submission of Staffing Proposa	
PG00090	Approval of Staffing Proposal	0%	7	7 0	23-Jul-19	29-Jul-19		Approval of Staffing Proposal	
	ure Construction Works						╷┃₩		_
Section 1 of									
A2960	Section 1 Completion (150days)	0%	0	0 0		05-Dec-19*			r Sec
	Submission (AIP)						. ₩	🗸 05-Aug-19, E&M Design Su	
A4930	Submission of AIP Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5	0%	0	7 0	09-Jul-19	15-Jul-19	-	Supmission of AIP Design of Act	vated C
A4940	Approval of AIP Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5	0%	0	21 0	16-Jul-19	05-Aug-19	-	Approval of AIP Design of	ctivated
A4950	Submission of AIP Design of Air Relief Duct for Effluent Drop Structure	0%	0	7 0	09-Jul-19	15-Jul-19	1	Submission of AIP Design of Air I	Relief
A4960	Approval of AIP Design of Air Relief Duct for Effluent Drop Structure	0%	0	21 0	16-Jul-19	05-Aug-19		Approval of AIP Design of	vir Relie
A4970	Submission of AIP Design of Isolation Device for Effluent Drop Structure	0%	0	7 0	09-Jul-19	15-Jul-19		Suprrission of AIP Design of Isc	
A4980 A4990	Approval of AIP Design of Isolation Device for Effluent Drop Structure Submission of AIP Design of Sealant for FRP Silding Covers of Existing CEPT Tanks	0%	0	21 0 7 0	16-Jul-19 09-Jul-19	05-Aug-19		Approval of AIP Design of superlission of AIP Design of Superlission of AIP Design of Sep	
A4990 A5000	Approval of AIP Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks	0%	1	21 0	16-Jul-19	05-Aug-19		Approval of AIP Design of	
A5010	Submission of AIP Design to examine in the ording corole of Examing out in trained	0%	57	7 0	09-Jul-19	15-Jul-19		Supmission of AIP Design fo por	
A5170	Approval of AIP Design to power supply, cabling, earthing, lightning protection and interface with ex	0%	57	21 0	16-Jul-19	05-Aug-19		Approval of AIP Design fo	
	Submission (DDA)	010	01	21 0	To our to	oo nag to	╷┃₩	16-Sep-19 E&N	Design
A4945	Submission of DDA Civil requirement drawings and General Arrangement of DOU1, DOU1R, DOU2	0%	0	7 0	09-Jul-19	15-Jul-19		Suprission of DDACivil require	ment dr
A4955	Review and comment on DDA of Civil requirement drawings and General Arrangement of DOU1, DC	0%	0	21 0	16-Jul-19	05-Aug-19	- F	Review and comment on D	DA of C
A4965	Re-submission of DDA Civil requirement drawings and General Arrangement of DOU1, DOU1R, DC	0%	0	7 0	06-Aug-19	12-Aug-19		Re-submission of DDAC	
A4975	Approval of DDA Civil requirement drawings and General Arrangement of DOU1, DOU1R, DOU2, E	0%	0	7 0	13-Aug-19	19-Aug-19		Approval of DDA Civil	
A5015	Submission of DDA Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5	0%	0	7 0	06-Aug-19	12-Aug-19		Submission of DDA Desi	
A5020	Review and Comment on DDA Design of Activated Carbon Filter Systems for DOU1, DOU2 and DC	0%	0	21 0	13-Aug-19	02-Sep-19		Review and Comm	
A5030	Re-submission of DDA Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5	0%	0	7 0	03-Sep-19	09-Sep-19		Re-submission of DD	
A5040 A5050	Approval of DDADesign of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5 Submission of DDADesign of Air Relief Duct for Effluent Drop Structure	0%	0	7 0	10-Sep-19 06-Aug-19	16-Sep-19 12-Aug-19		Submission of DDA Desi	
A5060	Review and Comment on DDA Design of Air Relief Duct for Effluent Drop Structure	0%	0	21 0	13-Aug-19	02-Sep-19		Review and Comm	
A5070	Re-submission of DDA Design of Air Relief Duct for Effluent Drop Structure	0%	0	7 0	03-Sep-19	09-Sep-19		Re-submission of	
A5080	Approval of DDA Design of Air Relief Duct for Effluent Drop Structure	0%	0	7 0	10-Sep-19	16-Sep-19		Approval of DD	
A5090	Submission of DDADesign of Isolation Device for Effluent Drop Structure	0%	0	7 0	06-Aug-19	12-Aug-19		Submission of DDA Desi	
A5100	Review and Comment on DDA Design of Isolation Device for Effluent Drop Structure	0%	0	21 0	13-Aug-19	02-Sep-19		Review and Comm	ent on D
A5110	Re-submission of DDA Design of Isolation Device for Effluent Drop Structure	0%	0	7 0	03-Sep-19	09-Sep-19		Re-submission of	DDA D
A5120	Approval of DDA Design of Isolation Device for Effluent Drop Structure	0%	0	7 0	10-Sep-19	16-Sep-19		Approval of DD	Desig
A5130	Submission of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks	0%	1	7 0	06-Aug-19	12-Aug-19		El Supmission of DDA Desi	
A5140	Review and Comment on DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks	0%	1	21 0	13-Aug-19	02-Sep-19		Review and Comm	
A5150	Re-submission of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks Approval of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks	0%	1	7 0	03-Sep-19	09-Sep-19		Re-submission of Approval of DD	
A5160 A5460	Approval of DDA Design of Sealant for FRP Sliding Covers of Existing CEP1 lanks Submission of DDA Design of power supply, cabling, earthing, lightning protection and interface with	0%	1 57	7 0	10-Sep-19 06-Aug-19	16-Sep-19 12-Aug-19		Approval of DD Submission of DDA Designation	
A8020	Review & comment of DDA Design of power supply, cabling, earthing, lightning protection and interface with	0%	57	21 0	13-Aug-19	02-Sep-19		Review & comment	
A8030	Re-submission of DDA Design of power supply, cabling, earthing, lightning protection and interface	0%	57	7 0	03-Sep-19	02-Sep-19		Re-submission of	
A8040	Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface with e	0%	57	7 0	10-Sep-19	16-Sep-19		Approval of DD.	
	and Delivery of Equipment/ Material for Section 1 of Works							• 07	-Nov-19
A5180	Procurement of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5	0%	0	48 0	07-Sep-19	24-Oct-19		Procu	
A5190	FAT of Activated Carbon Filter System for DOU1	0%	0	6 0	07-Oct-19	12-Oct-19		FAT of Ac	
A5200	Delivery of Activated Carbon Filter System for DOU1 to Site	0%	0	14 0	13-Oct-19	26-Oct-19		Deliv	ery of A
A5210	FAT of Activated Carbon Filter System for DOU2	0%	0	6 0	13-Oct-19	18-Oct-19		FAT of P	Activate
A5220 A5230	Delivery of Activated Carbon Filter System for DOU2 to Site FAT of Activated Carbon Filter System for DOU5	0%	0	14 0	19-Oct-19 19-Oct-19	01-Nov-19 24-Oct-19		Deliver and Delive	very of
A5230 A5240	PAL of Activated Carbon Filter System for DOU5 Delivery of Activated Carbon Filter System for DOU5 to Site	0%	0	6 0 14 0	19-Oct-19 25-Oct-19	24-Oct-19 07-Nov-19			livery
A5240 A5250	Procurement of FRP Air Ducts for Effluent Drop Structure	0%	0	45 0	02-Sep-19	16-Oct-19		- Incoure	ment of
A5250 A5260	FAT of FRP Air Ducts for Effluent Drop Structure	0%	0	45 0 7 0	10-Oct-19	16-Oct-19		AT of F	
A5260 A5270	Delivery of FRP Air Ducts for Effluent Drop Structure to Site	0%	0	7 0	17-Oct-19	23-Oct-19		C Delive	
A5280	Procurement of Isolation Devices for Effluent Drop Structure	0%	0	30 0	02-Sep-19	01-Oct-19		Froquement	
	Delivery of Isolation Devices for Effluent Drop Structure to Site	0%	0	7 0	02-Oct-19	08-Oct-19		🖵 Délivery d	
A5290									

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Q3	Q4	Q1	Q2	Q3		Q4	Q1		Q2		Q3	
									🗸 03-M	ay-21, W	orks Progra	nme (Fir
_								_	V 03-M	ay-21, Co	ntract Partic	ulars
Starting date of Pro	ect											
									Comp	letion Da	te (665 day	3)
					-	_	29-Dec-20, Key D	ates				
Starting date of Pro	ject						·					
						•	KD A - Completio	n of all othe	works i	ncluding	DOUs 1, 2,	4, 5 Polis
09-Jul-19, Access (Date of Part of the S	lite										
Part A-L												
19-Aug-1	9, Preliminary and	General Requirements										
Statutory appli	ication/ notification	of EPD and LD					h					
Submission of												
Approval												
		nt Plan/ Environmental Manag	ement plan									
Approval of	f Waste Manageme	nt Plan/ Environmental Mana	gement plan									
	Subcontractor Manag		1 1									1
Approval of	Subcontractor Mana	agement Plan										
Submission of S	taffing Proposal											
Approval of St	affing Proposal											
								-	▼ 03-M	ay-21, Inf	rastructure	Construc
		06-Jan-20, Section 1	of the Works									
	r**	Section 1 Completion (150da	/S)									
	&M Design S <mark>u</mark> bmis											
		d Carbon Filter Systems for I										
		ated Carbon Filter Systems fo		0U5			[]					
		ef Duct for Effluent Drop Struc										
		elief Duct for Effluent Drop Str										
		Device for Effluent Drop Str										
		ion Device for Effluent Drop S										
		for FRP Sliding Covers of Ex					J					
		Int for FRP Sliding Covers of										
		upply, cabling, earthing, light r supply, cabling, earthing, lig										
		ign Submission (DDA)	nuning protection and i	internace with exitg	Installation							
		t drawings and General Arran	compart of DOUL DO		and DOUS							
		f Civil requirement drawings				UIA and DOU	5					
		equirement drawings and Ge										
		rement drawings and General										
		Activated Carbon Filter Syste			boot and bb							
		n DDA Design of Activated Ca			nd DOU5							
		Design of Activated Carbon					·					
Γ . Α	pproval of DDA Des	sign of Activated Carbon Filte	Systems for DOU1, D	OU2 and DOU5								
Submissio	n of DDA Design of	Air Relief Duct for Effluent Di	op Struc ture									
Revi	ew and Comment or	n DDA Design of Air Relief Du	ct for Effluent Drop Str	ucture								
Re-	submission of DDA	Design of Air Relief Duct for	Effluent Drop Structure	e								
	pproval of DDA Des	sign of Air Relief Duct for Efflu	ent Drop Structure			1						
		Isolation Device for Effluent										
		n DDA Design of Isolation De										
		Design of Isolation Device to		ire								
		sign of Isolation Device for Ef										
		Sealant for FRP Sliding Cove										
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		Design of Sealant for FRP S										
		sign of Sealant for FRP Sliding			o viole	ion						
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		nt of Activated Carbon Filter										
		ed Carbon Filter System for D										
		Activated Carbon Filter Syst										
		ated Carbon Filter System for										
	Delivery	of Activated Carbon Filter Sy	stem for DOU2 to Site									
	FAT o Activ	vated Carbon Filter System for	or DOU5									
	Deliver	y of Activated Carbon Filter S	ystem for DOU5 to Sit	e								1
		of FRP Air Ducts for Effluent										
		ir Ducts for Effluent Drop Stru										
		FRP Air Ducts for Effluent Dr										
		solation Devices for Effluent										
	Delivery of Isol	lation Devices for Effluent Dro	p Structure to Site									
2018/17				Shee	t1 of 7	Date	Revision		Checked	1	Approv	ed
					19-Ji	ul-19	Rev. 0					
er Island Sewag	ge Treatment W	Vorks			29-A	ug-19	Rev. 1	1				1

Critical Remaining Work

First Programme

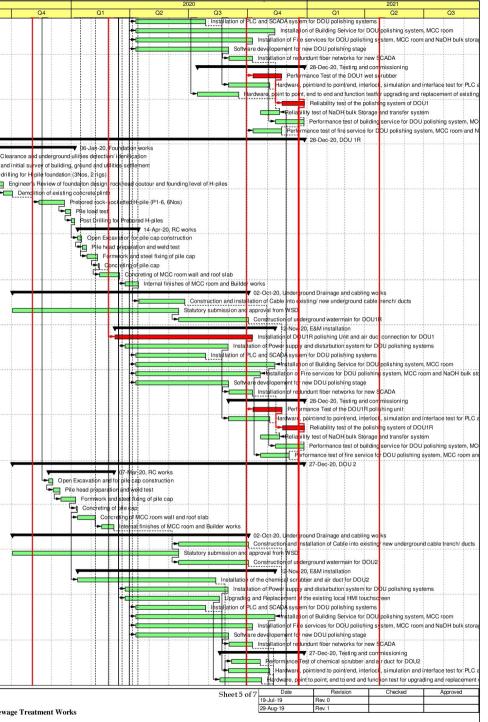
Activity ID	Activity Name	Activity % Total Complete		Original Time risk Duration allowance		2019 2020 2021 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
A5300	Procurement of Sealant for FRP Sliding Covers of Existing CEPT Tanks	0%	1	30 0	02-Sep-19 01-Oct-1	Figure 1 -
A5310	Delivery of Sealant for FRP Sliding Covers of Existing CEPT Tanks to Site	0%	1	7 0	02-Oct-19 08-Oct-1	Delivery of Sealant for FRP Sliding Covers of Existing CEPT Lanks to Site
	otechnical Design Submission (DDA)					Clour De Jan-20, Civil and Geotechnical Design Submission (DDA) Submission d DDA Geotechnical design for piling works for DOU1, DOU2 and DOU5
A5320 A5330	Submission of DDAGeotechnical design for piling works for DOU1, DOU2 and DOU5 Review and Comment on DDAGeotechnical design for piling works for DOU1, DOU2 and DOU5	0%	0	7 0 21 0	20-Aug-19 26-Aug- 27-Aug-19 16-Sep-	Submission of up 4 determinat design for plung works for DOU1, DOU2 and DOU2
A5340	Re-submission of DDA Geotechnical design for piling works for DOU1, DOU2 and DOU5	0%	0	5 0	17-Sep-19 21-Sep-	Re-sugnission of DDA Geotechnical design for juling works for DDU1, DDU2 and DDU5
A5350	Approval of DDA Geotechnical design for piling works for DOU1, DOU2 and DOU5	0%	0	7 0	22-Sep-19 28-Sep-	General of DDA Geotechnical design for pilling works for DOU1, DOU2 and DOU5
A5400	Submission of DDAstructural design for RC works of DOU 1, 2 and 5	0%	0	14 0	29-Sep-19 12-Oct-1	Submission of DDA structural design for FIC works of DOU 1, 2 and 5
A7500	Review and Comment on DDA structural design for RC works for DOU1, DOU2 and DOU5	0%	0	10 0	13-Oct-19 22-Oct-1	Review and Comment on DDA structural design for RC works for DOU1, DOU2 and DOU5
A7510	Re-submission of DDA structural design for RC works for DOU1, DOU2 and DOU5	0%	0	10 0	23-Oct-19 01-Nov-	
A7520 A7840	Approval of DDA structural design for RC works for DOU1, DOU2 and DOU5 Submission of DDA for ABWF design for DOU 1, 2 and 5	0%	0 115	10 0 14 0	02-Nov-19 11-Nov-1 29-Sep-19 12-Oct-1	Approval of DDA structural design for RC works for DOU1, DOU2 and DOU5
A7850	Review and Comment on DDA ABWF design for DOU1, DOU2 and DOU5	0%	115	14 0	13-Oct-19 26-Oct-1	Bound and Data and Comment on Data Budy not be and budy Bound and Comment on Data ABWF design for DOU1, DOU2 and DOU5
A7860	Re-submission of DDA ABWF design for DOU1, DOU2 and DOU5	0%	115	14 0	27-Oct-19 09-Nov-	H Besubmission of DDA ABWE design for DOU1, DOU2 and DOU5
A7870	Approval of DDA ABWF design for DOU1, DOU2 and DOU5	0%	115	14 0	10-Nov-19 23-Nov-	Approval of DDA ABWF, design for DOU1, DOU2 and DOU5
DOU 1						v v v v v v v v v v v v v v v v v v v
Foundatio A1130	n works General Site Clearance and underground uliities detection/ idenification	0%	0	6 0	09-Jul-19 15-Jul-1	Charges Sta Clay rank a ledund and a starting i denotion / identification
A1131	Installation and initial survey of building, ground and utilities settlement	0%	0	6 0	16-Jul-19 22-Jul-1	Control of the second accent of the second of the sec
A1132	Temporary Diversion of existing drainage pipes	0%	0	15 0	16-Jul-19 01-Aug-1	The part of the state of the st
A1133	Pre-drilling for H-pile foundation (3Nos)	0%	0	10 0	29-Jul-19 08-Aug-	🔽 🐂 💏 📴 prilling for 🕂 🔁 burloigtion (3Nos)
A1134	Engineer's Review of foundaiton design, rockhead coutour and founding level of H-piles	0%	0	28 0	09-Aug-19 10-Sep-	Engineeral Revieword foundation design, rockhead coutour and founding level of H-piles
A1137	Mobilization of piling rigs (1 rig)	0%	0	3 0	21-Aug-19 23-Aug-1	
A1140 A1430	Prebored H-pile (P1-7, 7Nos) Pile load test	0%	0	32 0 6 0	24-Aug-19 30-Sep- 02-Oct-19 08-Oct-1	Feeder Hpie (P1-7, 7kos)
A1440	Post Drilling for Prebored H-piles	0%	0	4 0	09-Oct-19 12-Oct-1	Hent Drilling for Prébored H-piles
RC works						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A5470	Open Excavation and for pile cap construction	0%	0	4 0	14-Oct-19 17-Oct-1	Open Exclavation and for pile cap construction
A5480	Pile head preparation and weld test	0%	0	5 0	18-Oct-19 23-Oct-1	He head preparation and weldtest
A5490 A5500	Formwork and steel fixing of pile cap Concreting of pile cap	0%	0	10 0 2 0	24-Oct-19 04-Nov- 05-Nov-19 06-Nov-	Folm/work and steel fixing of pile cap
A5510	Concreting of piceap Concreting of MCC room wall and roof slab	0%	76	24 2	07-Nov-19 04-Dec-	Concreting of MCC foom wall and root slab
A5520	Internal finishes of MCC room and Builder works	0%	76	18 2	13-Dec-19 06-Jan-2	Internal finishes of MCC room and Builder works
Drainage v	vorks		1			
E&M instal	lation	00/	0	15 0	40 Nov 40 00 Nov	Underground works for cabiling duct and trenches
A5535 A5540	Underground works for cabling duct and trenches Installation of the Activated Carbon Filter System and air duct connection for DOU1	0%	0	15 0 15 1	13-Nov-19 29-Nov- 13-Nov-19 29-Nov-	 In the Activated Carbon Filer System and air duct connection for DOU1
A5550	Trial operation and Performance Test of the Activated Carbon Filter System for DOU1	0%	0	5 0	30-Nov-19 05-Dec-	Trial operation and Performance Test of the Activated Carbon Filter System for DOU1
DOU 2						V 05-Dec-19. DOU 2
Foundatio	n works					General Ste Clearar be and underground utilities detection/ identification
A5380 A5390	General Site Clearance and underground uliities detection/ idenification	0%	0	6 0 9 0	09-Jul-19 15-Jul-1 16-Jul-19 25-Jul-1	Ganema Ste Clearar personal ungerground unities gettection / dennication
A5390 A5410	Installation and initial survey of building, ground and utilities settlement Pre-drilling for H-pile foundation (5Nos, 2 rig)	0%	0	12 0	26-Jul-19 08-Aug-1	
A5420	Engineer's Review of foundaiton design, rockhead coutour and founding level of H-piles	0%	0	28 0	09-Aug-19 10-Sep-1	Podrilling for H-sile bundation (5Nos, 2 rig)
A5430	Mobilzation of piling rigs	0%	0	3 0	17-Aug-19 21-Aug-1	Pre Enginder a Review of bundation design, rock/eaad coutour and founding level of H-piles Pre Iminary tile for shaft friction piles (3Nos) Pre Iminary tile for shaft friction piles
A5440	Preliminary pile for shaft friction piles (3Nos)	0%	0	12 0	21-Aug-19 03-Sep-	Pre minary file for shaft friction piles (3Nos)
A5450	Pile load test for preliminary piles	0%	0	6 0	04-Sep-19 10-Sep-1	Pile load test for preliminary piles
A5560 A5565	Prebored H-pile (2a-P1-2a-P8, 8Nos) Prebored H-pile (2b-P1-2b-P6, 6Nos)	0%	0 51	35 0 30 0	11-Sep-19 22-Oct-1 23-Oct-19 26-Nov-	
A5570	Pile load test	0%	0	6 0	23-Oct-19 29-Oct-1	
A5580	Post Drilling for Prebored H-piles	0%	0	4 0	30-Oct-19 02-Nov-	Page Page Division Protocol H-piles
RC works						Provide a contract of the cont
A1450	Open Excavation and for pile cap construction DOU2a	0%	0	4 0	04-Nov-19 07-Nov-	Diplem Excavation and for pile cipit construction DOUZa
A1455 A1460	Pile head preparation and weld test Formwork and steel fixing of pile cap	0%	0	3 0 7 0	08-Nov-19 11-Nov- 12-Nov-19 19-Nov-	File head preparation and weld test
A1460 A1470	Concreting of pile cap	0%	0	1 0	20-Nov-19 20-Nov-	romwoja no stear indigu ji me cap
Drainage v		0.0			20100	
E&M instal	lation	,				vo 5- Dac-19, EAM instantiator
A5355 A5360	Underground works for cabling duct and trenches	0%	0	10 0 10 0	21-Nov-19 02-Dec-	Installation of the Activated Carbon Filter System and air duct connection for DOU2a
A5360 A5370	Installation of the Activated Carbon Filter System and air duct connection for DOU2a Trial Operation and Performance Test of the Activated Carbon Filter System for DOU2a	0%	0	3 0	21-Nov-19 02-Dec- 03-Dec-19 05-Dec-	Instalaaron on the recitivaad Gardon Triter system and an out of combection to POUZa Instalaaron on the recitivaad Gardon Triter system for DOUZa Instalaaron on the recitivaad Gardon Triter system for DOUZa
DOU5		0 //0	U	0 0	00 000 10 00 000	▼ 1 05-Dec-19, DOU5
Foundatio						the second secon
	General Site Clearance and underground ullities detection/ idenification	0%	8	6 0	09-Jul-19 15-Jul-1	- Concert Site Ole remote ind underground utilities detection i dentication
A5660	Installation and initial survey of building, ground and utilities settlement Pre-drilling for H-nile foundation (Alles 1 rig)	0%	8	9 0	16-Jul-19 25-Jul-1	Institution and initial survey of building, ground and utilities settlement The settling of the foundation (Aflos, 1 rig)
A5670 A5680	Pre-drilling for H-pile foundation (4Nos, 1 rig) Engineer's Review of foundaiton design, rockhead coutour and founding level of H-piles	0%	8	12 0 28 0	26-Jul-19 08-Aug- 09-Aug-19 10-Sep-	Figure 1 -
A5690	Mobilization of piling rigs	0%	8	3 0	17-Aug-19 21-Aug-1	Committee in Review of foundation design, rockeas coutour and founding level of H-piles
A5720	Prebored H-pile (5a-P1-2a-P6, 6Nos)	0%	0	28 0	30-Aug-19 02-Oct-1	Presente (In Pretrice) Hiple (5a-P1-2a-P6, 6Nos)
A5730	Prebored H-pile (5b-P1-5b-P6, 6Nos)	0%	25	24 0	03-Oct-19 30-Oct-1	Pistored H-pite (5b-Pi-5b-Pi, 6ilus)
A5740	Pile load test	0%	0	6 0	03-Oct-19 09-Oct-1	
A5750	Post Drilling for Prebored H-piles	0%	0	4 0	10-Oct-19 14-Oct-1	Part Children Control Haples
A5590	for DOU5a Open Excavation and for pile cap construction DOU5b	0%	0	5 0	15-Oct-19 19-Oct-1	Dr-Nov-19, RC works for DOU5a
A5550	open execution and for price op construction boddb	0 /0	9	5 0		
Ac	tual Work				Contrac	No. DC/2018/17 Date Revision Checked Approved 19-Jul-19 Rev. 0 Approved
	maining Work V Summary		E-l			20 Aug 10 Poy 1
	tical Remaining Work		rnnanc	ement of Deodo	ourization System at	necutter Island Sewage Treatment Works
	Torran I Stranger By Trons				Firs	rogramme
						-

Activity ID	Activity Name	Activity % Tota	al Float	Original Time risk	Start	Finish	2019							2020)					2021		
		Complete		Duration allowance	•			Q3			Q4	Q1		Q2	Q3	(24	Q1		Q2	C	23
A5600	Pile head preparation and weld test	0%	0	4 0	21-Oct-19							ration and weld test										
A5610 A5620	Formwork and steel fixing of pile cap	0%	0	10 0 2 0	25-Oct-19 06-Nov-19						Concreting	nd steel fixing of pile	ecap									
Drainage	Concreting of pile cap	0%	0	2 0	00-1400-19	07-1400-19																
E&M insta											05-D	ec-19, E&M installa	tion									
A5625	Underground works for cabling duct and trenches	0%	0	18 5	08-Nov-19	28-Nov-19				H	Under	ground works for ca	bling duct					(T T T		1		
A5630	Installation of the Activated Carbon Filter System and air duct connection for DOU5b	0%	0	18 2	08-Nov-19					1 1		ation of the Activated										
A5640	Trial Operation and Performance Test of the Activated Carbon Filter System for DOU5b	0%	0	6 0	29-Nov-19	05-Dec-19					Trial	Operation and Per	ormance T	est of the Activated	Carbon Filter S	System for DOU5b						
CEPT tank	f effluent drop shaft											ec-19, CEPT tank ec-19, Air ducts of b	effluent dro	n shaft								
A7090	Installation of FRP air duct for effluent drop structure	0%	0	25 0	24-Oct-19	21-Nov-19						ion of FRP air duct										
A7180	Reliability Test of FRP air ducts for effluent Drop Structure	0%	0	12 0	22-Nov-19	05-Dec-19					Relia	ability Test of FRP a	ir ducts fo	effluent Drop Struc	cture							
Effluent La											for on site pro	ec-19, Effluent Laun	nder									
A7100	Delivery of isolation device for on site prototype test	0%	15	6 0		15-Jul-19																
A7110 A7120	Installation of the Isolation Device for Effluent Drop Structure for On-site Prototype Test Conduction of On-site Prototype Test of the Isolation Device for Effluent Drop Structure	0%	15 15	10 0 12 0	-	05-Sep-19	[·					levice for Effluent D rototype Test of the I						h				
A7120 A7130	Full Scale Installation of Isolation Devices for Effluent Drop Structure	0%	0	38 5	06-Sep-19 09-Oct-19	19-Sep-19 21-Nov-19				Jiducup		le Installation of Ise										
A7190	Performance test (smoke Test) of the isolation device for effluent drop structure	0%	0	12 0	22-Nov-19							ormance test (smoke				structure						
CEPT FRP	covers							;				10 0000 000		1 1 1								
A7140	Delivery of FRP Sliding Cover Sealant for On-site Prototype Test	0%	3	6 0	02-Sep-19	07-Sep-19		4	🛛 Deliv	ery of Fl	RP Sliding Cov	ver Sealant for On-\$	ite Prototy	pe Test								
A7150	Installation of FRP Sliding Cover Sealant for On-site Prototype Test	0%	3	8 0	09-Sep-19	17-Sep-19			- Ins	tallation	of FRP Slidin	g Cover Sealant for	On site P	ototype Test								
A7160	Conduction of On-site Prototype Test of FRP Sliding Cover Sealant	0%	3	12 0	18-Sep-19				-	Conduc	ction of On-site	e Prototype Test of F	RPSlidin	g Cover Sealant								
A7170	Full Scale Installation of FRP Sliding Cover Sealants for Existing CEPT Tanks	0%	0	40 5	07-Oct-19				-		Full Sca	le Installation of FR	P Sliding (Cover Sealants for I		lanks						
A7200	Performance test (Smoke test) of the sealant for FRP sliding covers	0%	0	12 0	22-Nov-19	05-Dec-19					Perfo	ormance test (Smok	e test) of t	e searant for FRP	sinding covers					- 03-May 2	1. Section 2 of	f the Works
A2970	Section 2 Completion (665d)	0%	0	0 0		03-May-2														Section 2		
KD0100	KD A - Completion of all other works including DOUs 1, 2, 4, 5 Polishing stages for FSI (540 days)	0%	0	0 0		29-Dec-20												KD A - Comple	etion of all oth			
E&M Design	Submission (AIP)								-			esign Submission (
A5760	Submission of AIP Design of Wet Chemical Scrubber System for DOU1, DOU2 and DOU5	0%	0	14 0	13-Aug-19							et Chemical Scrub										
A5770	Approval of AIP Design of Wet Chemical Scrubber System for DOU1, DOU2 and DOU5	0%	0	21 0	27-Aug-19			-				Wet Chemical Scru			2 and DOU5			<u> </u>		<u>.</u>		
A5780	Submission of AIP Design of the Polishing System for DOU4	0%	0	14 0		09-Sep-19						of the Polishing Syst										
A5790	Approval of AIP Design of the Polishing System for DOU4	0%	0	21 0 14 0		30-Sep-19						n of the Polishing S of the Polishing Syst										
A5800 A5810	Submission of AIP Design of the Polishing System for DOU1R Approval of AIP Design of the Polishing System for DOU1R	0%	0	21 0		09-Sep-19 30-Sep-19																
A5820	Submission of AIP Design of NaOH Bulk Storage and Transfer Facilities	0%	23	14 0	10-Sep-19				• s	ubmissi	on of AIP Desi	n of the Polishing S gn of NaOH Bulk S	orage and	Transfer Facilities								
A5830	Approval of AIP Design of NaOH Bulk Storage and Transfer Facilities	0%	23	21 0		14-Oct-19	+				roval of AIP De	esign of NaOH Bulk	Storage a	nd Transfer Facilitie	es			rt				
A5840	Submission of AIP Design of Power Supply and Distribution System for DOU Polishing Systems	0%	19	14 0	13-Aug-19	26-Aug-19		-	Submiss	ion of A	P Design of P	ower Supply and Dis	stribution	System for DOU Po	lishing Systems	s						
A5850	Approval of AIP Design of Power Supply and Distribution System for DOU Polishing Systems	0%	19	21 0	27-Aug-19	16-Sep-19						Power Supply and										
A5860	Submission of AIP Design for Upgrading and replacement of the existing local HMI touchscreen	0%	3	14 0		26-Aug-19		-				pgrading and replace										
A5870	Approval of AIP Design for Upgrading and replacement of the existing local HMI touchscreen	0%	40	21 0	27-Aug-19	16-Sep-19		-				r Upgrading and rep						<u>i</u>				
A5880	Submission of AIP Design of PLC & SCADA Systems for DOU Polishing Systems (including function	0%	3	14 0	27-Aug-19							of PLC & SCADA Sys in of PLC & SCADA										
A5890 A5900	Approval of AIP Design of PLC & SCADA Systems for DOU Polishing Systems (including functional Submission of AIP Design of Building Services for DOU Polishing Systems, New Switch/MCC Roor	0%	3	21 0 14 0	10-Sep-19 27-Aug-19							of Building Services					ignspecifica	(a ciri)				
A5910	Approval of AIP Design of Building Services for DOU Polishing Systems, New Switch/MCC Rooms	0%	17	21 0		30-Sep-19						n of Building Servic										
A5920	Submission of AIP Design of Fire Services for DOU Polishing Systems, New Switch/MCC Rooms a	0%	3	14 0	10-Sep-19	23-Sep-19						gn of Fire Services					OH Bulk Stol	rage Compound				
A5930	Approval of AIP Design of Fire Services for DOU Polishing Systems, New Switch/MCC Rooms and	0%	3	21 0	24-Sep-19	14-Oct-19			- C 💼			esign of Fire Service										
A8000	Submission of AIP Design fo power supply, cabling, earthing, lightning protection and interface with	0%	59	14 0	13-Aug-19	26-Aug-19						ower supply, cabling										
A8010	Approval of AIP Design fo power supply, cabling, earthing, lightning protection and interface with ex'	0%	59	21 0	27-Aug-19	16-Sep-19						power supply, cabli			ion and interfac	e with exitg instal	lation					
A8090	Submission of AIP design of networks integration with existing DCS	0%	59	14 0	13-Aug-19	-						tworks integration v										
A8100	Approval of AIP Design of network integration with existing DCS	0%	59	21 0		16-Sep-19						network integration edundant fiber netwo										
A8110 A8120	Submission of AIP design of Redundant fiber network for new SCADA Approval of AIP design of Redundant fiber networks for new SCADA	0%	59 59	14 0 21 0		26-Aug-19 16-Sep-19		ITE.				Redundant fiber net										
A8120 A8150	Submission of AIP design for upgrading works and modification of extg data, event & Historain serv	0%	59	14 0	27-Aug-19 13-Aug-19				Submiss	ion of Al	P design for u	pgrading works and	modificat	on of exito data, eve	ent & Historain	server in DOU1&	2 in MPS					
A8180	Approval of AIP design for upgrading works and modification of exitg data, event & Historian server	0%	59	21 0	27-Aug-19				Ap	proval of	AIP design for	r upgrading works a	und modific	ation of ex'tg data, e	event & Historai	in server in DOU	1&2 in MFS1					
E&M Design	Submission (DDA)								-			Des to FOM Dist	- Oliveria	Ha (DDA)	1 1							
A1170	Submission of DDADesign of Wet Chemical Scrubbers Filters for DOU1, DOU2 and DOU5	0%	0	14 0	17-Sep-19					Submis	sion of DDA D	esign of Wet Chem	cal Scrub	ers Filters for DOU	J1, DOU2 and D	0005						
A1180	Review and Comment on DDA Design of Wet Chemical Scrubbers Filters for DOU1, DOU2 and DC	0%	0	21 0	01-Oct-19				-			nment on DDA Desig					005					
A1183	Re-submission of DDA Design of Wet Chemical Scrubbers Filters for DOU1, DOU2 and DOU5	0%	0	7 0		28-Oct-19				2		n of DDA Design of I DDA Design of We	vvet Chemics	I Scrubbers Filte	for DOUL DO	12 and DOUS						
A1185 A1190	Approval of DDA Design of Wet Chemical Scrubbers Filters for DOU1, DOU2 and DOU5 Submission of DDA Design of the Polishing System for DOU4	0%	0 21	14 0 14 0	29-Oct-19 01-Oct-19	11-Nov-19 14-Oct-19				-	mission of DD	A Design of the Poll	shing Sve	tem for DOI 14		STO DO DIE 20						
A1190 A1200	Review and Comment on DDA Design of the Polishing System for DOU4	0%	21	21 0	15-Oct-19	04-Nov-19	+					Comment on DDAD			for DOU4	·····		;		· ····· ····		
A1200	Re-submission of DDA Design of the Polishing System for DOU4	0%	21	7 0	05-Nov-19					- 4		sion of DDA Design										
A1260	Approval of DDA Design of the Polishing System for DOU4	0%	21	14 0	12-Nov-19	25-Nov-19						al of DDA Design of										
A5940	Submission of DDADesign of the Polishing System for DOU1R	0%	0	14 0	01-Oct-19	14-Oct-19			-			A Design of the Pol										
A5950	Review and Comment on DDA Design of the Polishing System for DOU1R	0%	0	21 0	15-Oct-19	04-Nov-19				-		Comment on DDAD						Ll				
A5960	Re-submission of DDA Design of the Polishing System for DOU1R	0%	0	7 0	05-Nov-19					- 4		sion of DDA Design										
A5970	Approval of DDADesign of the Polishing System for DOU1R	0%	0	14 0	12-Nov-19					!		al of DDA Design of										
A5980	Submission of DDADesign of the NaOH bulk storage and transfer Facilities	0%	23	14 0		28-Oct-19						DDA Design of the and Comment on DD				for Equilities						
A5990 A6000	Review and Comment on DDA Design of the NaOH bulk storage and transfer Facilities Re-submission of DDA Design of the NaOH bulk storage and transfer Facilities	0%	23	21 0 7 0		18-Nov-19				-		and Comment on DD mission of DDA Des										
A6000 A6010	Approval of DDA Design of the NaOH bulk storage and transfer Facilities	0%	23 23	14 0	19-Nov-19 26-Nov-19		∤ - -					mission of DDA Design						·				
A6020	Submission of DDA Design of Power Supply and Distribution System for DOU Polishing Systems	0%	19	14 0		30-Sep-19				Submis		esign of Power Sup	1									
A6030	Review and Comment on DDA Design of Power Supply and Distribution System for DOU Polishing	0%	19	21 0	01-Oct-19							nment on DDA Dest					g Systems					
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Δ	tual Work					Contract	No. DC/20	18/17							She	et3 of 7	Date	Revisio	on	Checked	Арр	roved
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	emaining Work Summary		Enhan	cement of Deodo	ourization Sy	stem at S	onecutter	Island	Sewage	e Treat	tment Worl	ks				29-Auç	g- 19	nev. I	I			
C	itical Remaining Work																					
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		A6050 App A6050 Sub A6070 Rev A6080 Re- A6080 Re- A6080 Re- A6100 Sub A6110 Rev A6110 Rev A6120 Re- A6130 App A6140 Sub A6150 Rev A6160 Re- A6170 App A6180 Rev A6170 Re- A6170 App A8050 Sub A8050 Sub A8050 Sub A8050 Sub A8080 App A8280 Sub A8280 Sub A8280 Rev A8300 Re- A8300 Re-	proval of DDA Design of Power Supply and Distribution System for DOU Polishing Systems bmission of DDA Design of Upgrading and replacement of the existing local HMI touchscreen wiew and Comment on DDA Design of Upgrading and replacement of the existing local HMI touch submission of DDA Design of Upgrading and upgrading and replacement of the existing local HMI touch bmission of DDA Design of Upgrading and Upgrading and replacement of the existing local HMI touch submission of DDA Design of PLC & SCADA Systems for DOU Polishing Systems view and Comment on DDA Design of PLC & SCADA Systems for DOU Polishing Systems proval of DDA Design of PLC & SCADA Systems for DOU Polishing Systems automission of DDA Design of PLC & SCADA Systems for DOU Polishing Systems and DDA Design of PLC & SCADA Systems for DOU Polishing Systems and DDA Design of PLC & SCADA Systems for DOU Polishing Systems and DDA Design of PLC & SCADA Systems for DOU Polishing Systems and the system submission of DDA Design of Building Services for DOU Polishing Systems. New MCC Rooms and and DDA Design of Building Services for DOU Polishing Systems, New MCC Rooms proval of DDA Design of Building Services for DOU Polishing Systems, New MCC Rooms proval of DDA Design of Building Services for DOU Polishing Systems, New MCC Rooms proval of DDA Design of Building Services for DOU Polishing Systems, New MCC Rooms proval of DDA Design of Building Services for DOU Polishing protection and interface will view & comment of DDA Design of power supply, cabling, earthing, lightning protection and interface view second to DDA Design of power supply, cabling, earthing, lightning protection and interface view second power supply, cabling, earthing, lightning protection and interface view second power supply, cabling, earthing, lightning protection and interface view second power supply, cabling, earthing, lightning protection and interface view second power supply, cabling, earthing, lightning protection and interface view second power supply	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	19 40 40 40 3 45 45 45 45 3	14 0 14 0 21 0 7 0 14 0 21 0 7 0	29-Oct-19 17-Sep-19 01-Oct-19 22-Oct-19 29-Oct-19 01-Oct-19	11-Nov-19 30-Sep-19 21-Oct-19 28-Oct-19 11-Nov-19		Acproval of DDADesign of Power Supply and D Submission of DDADesign of Upgradingand;replacement Review and Comment on DDADesign of Upgrading and Review mand Soft and DAD Besign of Upgrading and Up
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6330 Procurament of Building Services Equipment for DOU Polishing Systems, New Switch/MCC Rooms and 0% 3 90 0 10-Dec-19 08-Mar-20 6340 Delivery of Building Services Equipment for DOU Polishing Systems, New Switch/MCC Rooms and 0% 3 30 0 09-Mar-20 07-Apr-20 6360 Procurement of File Services Equipment for DOU Polishing Systems, New Switch/MCC Rooms and NaOH 0% 28 90 0 10-Dec-19 08-Mar-20 7080 Delivery of File Services Equipment for DOU Polishing Systems, New MCC Rooms and NaOH Bu 0% 28 30 0 09-Mar-20 07-Apr-20 7080 Delivery of File Services Equipment for DOU Polishing Systems, New MCC Rooms and NaOH Bu 0% 28 30 0 09-Mar-20 07-Apr-20 7081 Hinstallation of DOU1 wet scrubber and air duct connection for DOU1 0% 0 175 14 09-Mar-20 08-Och-20 7212 Installation of DOU1 wet scrubber and air duct connection for DOU polishing systems 0% 16 130 14 25-Mar-20 14-Jul-20 7222 Upgrading and Replacement of the existing local HMI touchscreen 0% 56 90 14 25-Mar-20 14-Jul-20<	Procurement of Building Services Equipment for DOU Polishing Systems, New Switch/MCC Rooms and O% 3 90 0 10-Dec-19 08-Mar-20 Delivery of Building Services Equipment for DOU Polishing Systems, New MCC Rooms and O% 3 30 0 09-Mar-20 07-Apr-20 Procurement of Fire Services Equipment for DOU Polishing Systems, New MCC Rooms and NaOH 0% 28 30 0 09-Mar-20 07-Apr-20 Delivery of Fire Services Equipment for DOU Polishing Systems, New MCC Rooms and NaOH 0% 28 30 0 09-Mar-20 07-Apr-20 Installation of DOU1 velt scrubber and air duct connection for DOU1 0% 0 175 14 09-Mar-20 07-Apr-20 Installation of Power supply and disturbution system for DOU polishing systems 0% 16 130 14 25-Mar-20 14-Jul-20 Upgrading and Replacement of the existing local HMI touchscreen 0% 56 90 14 25-Mar-20 14-Jul-20 14-Jul-20 ctual Work 									FAT of PLC ar
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Ministration (2nd stage) Ar210 Installation of DOU1 well scrubber and air duct connection for DOU1 0% 0 175 14 09-Mar-20 08-Oct-20 Ar210 Installation of DOU1 well scrubber and air duct connection for DOU1 0% 0 175 14 09-Mar-20 08-Oct-20 Ar212 Installation of Power supply and disturbution system for DOU polishing systems 0% 16 130 14 25-Mar-20 14-Jul-20 Ar222 Upgrading and Replacement of the existing local HMI touchscreen 0% 56 90 14 25-Mar-20 14-Jul-20	Installation (2nd stage) Installation of DOU1 wet scrubber and air duct connection for DOU1 0% 0 175 14 09-Mar-20 08-Oct-20 Installation of Power supply and disturbution system for DOU polishing systems 0% 16 130 14 25-Mar-20 31-Aug-20 Upgrading and Replacement of the existing local HMI touchscreen 0% 56 90 14 25-Mar-20 14-Jul-20 ctual Work		Ivery or Hire Services Equipment for DOU Polishing Systems, New MCC Rooms and NaOH Bu	0%	28	30 0	09-Mar-20	07-Apr-20		Delivery of
Ar210 Installation of DOU1 wet scrubber and air duct connection for DOU polishing systems 0% 0 175 14 09-Mar-20 08-Oct-20 Ar211 Installation of Dower supply and distrubution system for DOU polishing systems 0% 16 130 14 25-Mar-20 31-Aug-20 Ar2222 Upgrading and Replacement of the existing local HMI touchscreen 0% 56 90 14 25-Mar-20 14-Jul-20	Installation of DOU1 wet scrubber and air duct connection for DOU1 0% 0 175 14 09-Mar-20 08-Oct-20 14									
A7212 Installation of Power supply and disturbution system to DOU polishing systems 0% 16 130 14 25-Mar-20 31-Aug-20 Upgrading and Replacement of the existing local HMI touchscreen 0% 56 90 14 25-Mar-20 14-Jul-20	Installation of Power supply and disturbution system for DOU polishing systems Installation of Power supply and disturbution system for DOU polishing systems 0% 16 130 14 25-Mar-20 31-Aug-20 14			0%	0	175 14	09-Mar-20	08-Oct-20		
A7222 Upgrading and Replacement of the existing local HMI touchscreen 0% 56 90 14 25-Mar-20 14-Jul-20 Actual Work Milestone Contract No. DC/2018/17 Supmort Supmo	Upgrading and Replacement of the existing local HMI touchscreen 0% 56 90 14 25-Mar-20 14-Jul-20 1				-					
Actual Work Mailestone Contract No. DC/2018/17 Supmorpring Contract No. DC/2018/17 Contract No. DC/2018/17	ctual Work Milestone Contract No. DC/2018/17 temaining Work Summary Enhancement of Deodourization System at Stonecutter Island Sewage Treatment Works 							-		
	temaining Work Vinestone Enhancement of Deodourization System at Stonecutter Island Sewage Treatment Works	Upg	graving and replacement of the existing local minit (OUCIISCREE)	U%	00	50 14	20-16/1-20	14-JUI-20		
Pameining Work	temaining Work Summary Enhancement of Deodourization System at Stonecutter Island Sewage Treatment Works	Actual	Work Milestone					Contract N	. DC/2018	3/17
Elemaining Work V Summary Enhancement of Deadourization System at Stoneoutter Jeland Seware Treatment Works	Eminancement of Debudurtzation System at Stonecuter Island Sewage Treatment works									
- Enhancement of Deodourization System at Stonecutter Island Sewage I reatment works		🔜 Remair	ning Work Summary		Enha	ancement of Deodo	urization S	stem at Ste	necutter Is	land Sewage Treatment Works



232 Ins		Complete		Duration allowand				Q3	Q4	Q1
	Installation of PLC and SCADA system for DOU polishing systems	0%	45	90 14	10-Apr-20	27-Jul-20				
	stallation of Building Service for DOU polishing system, MCC room	0%	1	180 14	10-Apr-20	12-Nov-20 08-Oct-20				
	stallation of Fire services for DOU polishing system, MCC room and NaOH bulk storage compou	0%	31	150 14	10-Apr-20					
	oftware developement for new DOU polishing stage stallation of redundunt fiber networks for new SCADA	0%	38 38	120 14 30 14	10-Apr-20 02-Sep-20	01-Sep-20 08-Oct-20				
	mmissioning	078	50	30 14	02-06p-20	00-001-20				
	erformance Test of the DOU1 wet scrubber	0%	0	45 5	09-Oct-20	22-Nov-20				
	ardware, point/end to point/end, interlock, simulation and interface test for PLC and SCADA for DC	0%	18	65 5	01-Sep-20	04-Nov-20				
	ardware, point to point, end to end and function testfor upgrading and replacement of existing local	0%	66	65 5	15-Jul-20	17-Sep-20				
	eliability test of the polishing system of DOU1	0%	0	36 0	23-Nov-20	28-Dec-20				
	eliability test of NaOH bulk Storage and transfer system	0%	3	30 0	21-Oct-20	19-Nov-20				
	erformance test of building service for DOU polishing system, MCC room and NaOH bulk storage	0%	1	45 5	13-Nov-20	27-Dec-20				
	erformance test of fire service for DOU polishing system, MCC room and NaOH bulk storage corr	0%	36	45 5	09-Oct-20	22-Nov-20				
1R										
ndation wo	orks									06-Jan-20
376 Ge	eneral Site Clearance and underground uliities detection/ idenification	0%	66	6 0	09-Jul-19	15-Jul-19	-	General Site Cle	earance and undergrou	und uliities detect
	stallation and initial survey of building, ground and utilities settlement	0%	66	6 0	16-Jul-19	22-Jul-19	-	Installation and	d initial survey of build	ting, ground and u
	re-drilling for H-pile foundation (3Nos, 2 rigs)	0%	51	10 0	09-Aug-19	20-Aug-19			illing for H-pile foundat	
	ngineer's Review of foundaiton design, rockhead coutour and founding level of H-piles	0%	51	24 0	21-Aug-19	17-Sep-19			Engineer's Review of	
	emolition of existing concrete plinth	0%	51	12 1	18-Sep-19	02-Oct-19			Demolition of exis	
	rebored rock-socketted H-pile (P1-6, 6Nos)	0%	17	35 1	12-Nov-19	21-Dec-19				Prebored tock
	ile load test	0%	17	6 0	23-Dec-19	31-Dec-19				Pile load tes
	ost Drilling for Prebored H-piles	0%	17	4 0	02-Jan-20	06-Jan-20				Post Drillin
works	and a second and provide a second and provide a second a	0.10			JE Jan-20	00 001-20				T-
	pen Excavation for pile cap construction	0%	17	6 1	11-Jan-20	17-Jan-20			· · · · · · · · · · · · · · · · · · ·	Open E
	ile head preparation and weld test	0%	17	6 1	18-Jan-20	24-Jan-20				Pile h
	ormwork and steel fixing of pile cap	0%	17	15 2	25-Jan-20	11-Feb-20				
		0%	17	2 0	12-Feb-20	13-Feb-20				
	oncreting of pile cap		17							
	oncreting of MCC room wall and roof slab ternal finishes of MCC room and Builder works	0%		24 2 15 2	14-Feb-20 25-Mar-20	16-Mar-20 14-Apr-20			· · · · · · · · · · · · · · · · · · ·	
		0%	117	15 2	25-Mar-20	14-Apr-20				
	Drainage and cabling works	0%	117	60 5	15-Apr-20	25-Jun-20				
	onstruction and installation of Cable into existing/ new underground cable trench/ ducts	0%	36	210 14	02-Oct-19*	15-Jun-20				
	tatutory submission and approval from WSD			90 14		02-Oct-20				1 1
	onstruction of underground watermain for DOU1R	0%	36	90 14	16-Jun-20	02-001-20				
1 installatio 520 Ins	stallation of DOU1R polishing Unit and air duct connection for DOU1	0%	0	175 14	09-Mar-20	08-Oct-20				
		0%	17	130 14	25-Mar-20					
	stallation of Power supply and disturbution system for DOU polishing systems stallation of PLC and SCADA system for DOU polishing systems		46	90 14		31-Aug-20 27-Jul-20				
		0%	40		10-Apr-20					
	stallation of Building Service for DOU polishing system, MCC room	0%		180 14	10-Apr-20	12-Nov-20				
	stallation of Fire services for DOU polishing system, MCC room and NaOH bulk storage compou	0%	21	160 14	10-Apr-20	20-Oct-20				
	oftware developement for new DOU polishing stage	0%	39	120 14	10-Apr-20	01-Sep-20				
	stallation of redundunt fiber networks for new SCADA	0%	39	30 14	02-Sep-20	08-Oct-20				
	mmissioning erformance Test of the DOU1R polishing unit	0%	0	39 5	09-Oct-20	23-Nov-20				
	ardware, point/end to point/end, interlock, simulation and interface test for PLC and SCADA for DC	0%	19	65 5	01-Sep-20	04-Nov-20				
	eliability test of the polishing system of DOU1R	0%	0	35 0	24-Nov-20	28-Dec-20				
	eliability test of NaOH bulk Storage and transfer system	0%	4	30 0	21-Oct-20	19-Nov-20				
	erformance test of building service for DOU polishing system, MCC room and NaOH bulk storage	0%	4	45 5	13-Nov-20	27-Dec-20				
						04-Dec-20				
2	erformance test of fire service for DOU polishing system, MCC room and NaOH bulk storage com	0%	24	45 5	21-Oct-20	04-Dec-20				
works 825 Op	pen Excavation and for pile cap construction	0%	51	6 0	27-Nov-19	03-Dec-19			L-1 0	pen Excavation a
	ile head preparation and weld test	0%	51	10 2	04-Dec-19	14-Dec-19				Pile head prepar
	ormwork and steel fixing of pile cap	0%	51	18 2	16-Dec-19	08-Jan-20			L	Formwork
	oncreting of pile cap	0%	51	2 0	09-Jan-20	10-Jan-20				Concretin
	oncreting of pile cap oncreting of MCC room wall and roof slab	0%	116	2 0	11-Jan-20	07-Feb-20				
						07-Feb-20 07-Mar-20				
	ternal finishes of MCC room and Builder works Drainage and cabling works	0%	116	15 2	17-Feb-20	07-mar-20				
	Drainage and cabling works onstruction and installation of Cable into existing/ new underground cable trench/ ducts	0%	36	90 2	16-Jun-20	02-Oct-20				
	tatutory submission and approval from WSD	0%	36	210 14	02-Oct-19*	02-Oct-20 15-Jun-20				
		0%	36	210 14 90 14	16-Jun-20	15-Jun-20 02-Oct-20				
	onstruction of underground watermain for DOU2	U%	36	9U 14	ro-Jun-20	02-00t-20				
A installatio B80 Ins	n stallation of the chemical scrubber and air duct for DOU2	0%	51	175 14	11-Jan-20	12-Aug-20				
						-				
				10000 (1000)						
			1.000							
		0%	44	30 14	02-Sep-20	08-Oct-20				
	mmissioning			10 -	00.5					
600 Ha	ardware, point to point, end to end and function test for upgrading and replacement of existing loca	0%	37	65 5	19-Aug-20	22-Oct-20				
460 Up 470 Ins 480 Ins 490 Ins 400 Sc 410 Ins 111 Ins 110 Ins 111 Ins 111	stallation of Power supply and disturbution system for DOU polishing systems grading and Replacement of the existing local HMI touchscreen stallation of Load SCADAsystem for DOU polishing systems stallation of Load SCADAsystem for DOU polishing system, MCC room stallation of Fire services for DOU polishing system, MCC room and NaOH bulk storage compou othware developement for new DOU polishing stage stallation of edundunt fiber networks for new SCADA mmissioning erformance Test of chemical scrubber and air duct for DOU2 ardware, point to point, end to end and function test for upgrading and replacement of existing loca workset with the point, end to end and function test for upgrading and replacement of existing loca Work Milestone	0% 0% 0% 0% 0% 0% 0% 0% 0%	20 30 49 1 31 44 44 39 24 37	130 14 120 14 90 14 180 14 150 14 120 14 30 14 45 5 65 5 65 5	25-Mar-20 25-Mar-20 10-Apr-20 10-Apr-20 10-Apr-20 10-Apr-20 02-Sep-20 06-Sep-20 01-Sep-20 19-Aug-20	31-Aug-20 18-Aug-20 27-Jul-20 12-Nov-20 08-Oct-20 08-Oct-20 04-Nov-20 22-Oct-20 22-Oct-20 Contract N	io. DC		//2018/17	///////////////////////////////////////



	ctivity ID	Activity Name	Activity % Tota Complete	al Float	Original Time risk Duration allowance	Start Finish		2019			202	0			2021	
	A7610	Reliability test of the polishing system of DOU2		9			-20	Q3	Q4	Q1	Q2	Q3	Q4	Q1 Reliability test of the polishing s	Q2 evstem of DOU2	Q3
				9									Reli	ability test of NaOH bulk Storage an	nd transfer system	
	A7630		0%	1	45 5	13-Nov-20 27-Dec-2	-20									
		Performance test of fire service for DOU polishing system, MCC room and NaOH bulk storage corr	0%	36	45 5	09-Oct-20 22-Nov-2	/-20						Per		U polishing system,	MCC room and
		n works					-			23-Jan 20.	oundation works			- 28-Dec-20, DOU 4	h	
			0%	36	6 0	27-Jul-19 02-Aug-1	-19	General Site Cle	arance and undergr							
	A6560	Installation and initial survey of building, ground and utilities settlement	0%	36	6 0	03-Aug-19 09-Aug-1	-19				ilities settlement					
							-				ckhead coutour and founding	level of H-piles		·		
								- <u>u</u> w	bilzation of pring r		1-7,7Nos)					
			200.000						_							
		Post Drilling for Prebored H-piles	0%	0	4 0	20-Jan-20 23-Jan-2	-20			Post Drilling	3 H I I I I I I I I					
		Open Execution and for sile can exectuation	0%/	0	10.0	04 Jap 00 06 Eab (- 00			One	15-May-20	RC works			·····	
					10.0						1 11 1 1 1 1 1	and the second				
				-												
	A6640		0%	0	2 0	13-Mar-20 14-Mar-2	-20			5	Concreting of pile cap					
										-						
			0%	61	18 3	24-Apr-20 15-May-	/-20				Internal fini	shes of MCC room a				
			0%	61	90.2	16-May-20 01-Sep-2	-20					Con				ch/ducts
										: B E	Sta					
				36							-		Construction of u	u derground watermain for DOU2		
			00/		160 11	20 Max 20 11 C 11	20								int composition for Dr	NUC
												Inets				
											+				,	
											+				olishing system, MC	C room
	A7440	Installation of Fire services for DOU polishing system, MCC room and NaOH bulk storage compou	0%	31	150 14	10-Apr-20 08-Oct-2	-20				+				tem, MCC room and	NaOH bulk stor
												Soft				
			0%	44	30 14	02-Sep-20 08-Oct-2	-20						Installation of r	edundunt fiber networks for new SC	ADA	
			0%	0	45 5	15-Oct-20 28-Nov-2	-20						P	erformance Test of the DOU4 polish	ingUnit	
	A7650		0%	24									Hardwa	re, point/end to point/end, interlock,	simulation and interf	lace test for PLC
• Monument and and a single grade grade and grade and grade and grade grade and grade a	A7670	Reliability test of the polishing system of DOU4	0%	0	30 0	29-Nov-20 28-Dec-2	-20							Reliability test of the polishin	system of DOU4	
				9												
Designation Designation <thdesignation< th=""> <thdesignation< th=""></thdesignation<></thdesignation<>				1												
		Performance test of the service for DOU polishing system, MCC room and NaOH burk storage con	0%	36	45 5	09-Oct-20 22-Nov-	-20						Fei		5 poinsning system,	wice room and
Note: Operation:	Foundatio															
Note Initial protection and watching 00 0			001	05	0.4	40 Nov 40 40 Nov	. 10		Chan Fr	augustion and for pills		DU5b				
No Occoreting of lease 06 25 0 2000-10 0 000-10 0 000-10 0 000-10 <td></td> <td>/</td> <td></td>															/	
Note: Note: <td< td=""><td>A7018</td><td>Concreting of pile cap</td><td>0%</td><td>25</td><td>2 0</td><td>20-Dec-19 21-Dec-</td><td>-19</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	A7018	Concreting of pile cap	0%	25	2 0	20-Dec-19 21-Dec-	-19									
Network Construction										Concreting	g of MCC room wall and roof	slab				
Add Work Overstructure drastation of Test drast on Cost in the existing or wardergound cable there from Cost in the existing or wardergound cable there from Cost in the existing of the group of cost in the exist in the e	A7025		0%	25	18 3	15-Feb-20 10-Mar-2	-20			-	Internal finishes of MCC roo	m and Builder works	02 001 20 100	www.upd Droinogo and aphiling work		
A statuy	A6990		0%	144	90.4	11-Mar-20 29-Jun-2	-20			-		Construction and ins	tallation of Cable inte	o existing/ new underground cable t	rench/ ducts	
Note: Note: <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></th<>											1					
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Arrage Installation OP Call SUGA Asystem for DOL polising system. MCC room and NaOH bulk storage compound OP Call SUGA Supervised Supe																
A 2775 Installation effective fOU polishing system, MCC room and NaOH bulk storage compound 0% 1 100 / 40 / 40 / 40 / 40 / 40 / 40 / 40 /															, bousing systems	
					10.0						+				olishing system, MC	C room
Add Installation of redundunt there networks for new SCADA Onis Sol Output Distance Outpu Distance Output	A7385		0%	31	150 14	10-Apr-20 08-Oct-2	-20				+		Installation of F	ie services for DOU polishing sys		
Addual Work • Maintained examples of the SUB service for DOU polishing system of DOU polishing system. MCC room and NaOH bulk storage or one of side of the Source for DOU polishing system. MCC room and NaOH bulk storage or one of side of the Source or policited of t											4	Soft				
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Art/100 Network 00			0%	0	39 0									Reliability test of the polishin	g system of DOU5	
A7760 Performance test of fire service for DOU polishing system, MCC room and NaOH bulk storage com 0% 36 45 0 0 02 22-Nov-20 NOIH bulk storage compound 0% 0 55 27-Aug-19 24-Oc-19 06-Mar-20, RC works 9-Niv-20, NaOH bulk storage compound A7200 Demolition of existing Storage compound 0% 0 55 27-Aug-19 24-Oc-19 06-Mar-20, RC works 9-Niv-20, NaOH bulk storage compound A7200 Demolition of existing Storage compound 0% 0 12 2 25-Oc-19 07-Nov-19 Demolition of existing Storage compound 0 0 12 2 25-Oc-19 07-Nov-19 Demolition of existing Storage compound 0 0 12 2 25-Oc-19 07-Nov-19 Demolition of existing Storage compound 0 0 24 5 06-Dec-19 10-Jan-20 Demolition of existing Storage compound 0 0 0 24 0 06-Dec-19 10-Jan-20 Demolition of existing Storage compound 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<				0									i i i i i i i i i i i i i i i i i i i	ability lost of Huori built olorage a		
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A7230 Demolition of existing Storage compound 0% 0 50 5 27.Aug.19 24-Oc19 Demolition of existing Storage compound Demoli		Storage compositio											9-1			
A7250 Carryout plate load test for foundation 0% 0 24 5 08-Nov-19 05-Dec-19 Image: Respresentative	A7230							-								
A7260 Review design by Project Manager Respresentative O				-												
Actual Work Macting Work Remaining Work Critical Remaining Work Sheet 6 of 7 19-Jul-19 29-Aug-19 Rew. 1 Revision Checked Instruction Instruction Instruction Sheet 6 of 7 19-Jul-19 29-Aug-19 Rew. 1 Revision Checked Instruction Instruction <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Car</td> <td></td> <td></td> <td>entative</td> <td></td> <td></td> <td></td> <td></td>									Car			entative				
Actual Work Milestone Remaining Work Sheet 8 of 7 Instant No. DC/2018/17	A/200	างรางคายของหูกาษทากประกาศสาสษากรรรณสแหช	U70	U	20 0						-, yopor manager nespres			Desider 1	Cheeked	
Remaining Work Summary Enhancement of Deodourization System at Stonecutter Island Sewage Treatment Works 29-Aug-19 Rev. 1 Critical Remaining Work	A	ctual Work				Contrac	ect No	o. DC/2018/17				Sheet 6		2010/07/07/07	Спескеа	Approved
Critical Remaining Work	R	emaining Work Vertex Summary		Ephor	cement of Deede	urization System of	t Stor	necutter Island Sewage'	reatment Wor	ks						
				Lindi	action of Debut	surration System at	. 5101	accuter island Sewage	. catheirt wor				22			
						Firs	rst Pr	rogramme								

Activity Name					Start	Finish	201	19				2020			2021
	Complete		Duration	allowance				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2 Q3
RC works for NaOH bulk storage compound	0%	0	45	5	11-Jan-20	06-Mar-20				R	C works for NaOH bulk				
allation											V				
Installation NaOH storage tanks and associated transfer pump	0%	0	120	20	15-Apr-20	05-Sep-20							nstallation NaOH storage	tanks and associated transfer	pump
nd Commissioning												-			
Performance test of the NaOH bulk storage compound and transfer system	0%	0	75	15	06-Sep-20	19-Nov-20						- -	Perform	nance test of the NaOH bulk s	prage compound and transfer system
Inspection by FSD															03-May-21, Statutary Inspection by
Submission of Application for FS inspection ot FSD	0%	0	21	0	29-Dec-20	18-Jan-21							-		tion for FS inspection ot FSD
FS inspection by FSD	0%	0	14	2	19-Jan-21	01-Feb-21								FS inspection by	SD
System/ Defect rectification	0%	0	40	5	02-Feb-21	13-Mar-21								System	Defect rectification
Submission of application for FS reinspection to FSD	0%	0	21	0	14-Mar-21	03-Apr-21								5 S	pmission of application for FS reinspect
FS re-inspection by FSD	0%	0	14	2	04-Apr-21	17-Apr-21								i i F <u>e</u>	FS re-inspection by FSD
Issue FS certificates	0%	0	15	2	18-Apr-21	02-May-21								5	Issue FS certificates
Works completion for Handover	0%	0	1	0	03-May-21	03-May-21									Works completion for Handover
of E&M equipment															➡ 03-May-21, Handover of E&M equi
Submission of O&M manual, Training manual and spare part list	0%	0	30		30-Dec-20*	28-Jan-21								Submission of O&	manual, Training manual and spare pa
Submission of final version of training manual	0%	0	30		29-Jan-21	27-Feb-21								Submissio	of final version of training manual
O&M training to DSD/ST2	0%	0	14		28-Feb-21	13-Mar-21								G&M tr	ning to D\$D/ST2
Handover spare parts	0%	0	30		14-Mar-21	12-Apr-21									Handover spare parts
Handover of Final version of O&M manual	0%	0	21		13-Apr-21	03-May-21									Handover of Final version of O&M
3	RC works for NaOH bulk storage compound Installation Installation NaOH storage tanks and associated transfer pump and Commissioning Performance test of the NaOH bulk storage compound and transfer system Inspaction by FSD Submission of Application for FS inspection ot FSD FS inspection by FSD System/ Defect rectification Submission of application for FS reinspection to FSD FS re-inspection by FSD Issue FS certificates Works completion for Handover cot EAM gengment Submission of GiaM manual, Training manual and spare part list Submission of Inal version of training manual O&M training to DSD/ST2 Handover spare parts	RC works for NaOH bulk storage compound Complete RC works for NaOH bulk storage compound 0% Installation 0% addition 0% Marce Statistion 0% Berformance test of the NaOH bulk storage compound and transfer system 0% Installation by FSD 0% Submission of Application for FS Inspection of FSD 0% System/ Defect rectification 0% Submission of application for FS reinspection to FSD 0% Issue FS certificates 0% Works completion for FAndover 0% Vorks completion for Handover 0% Submission of G&M manual, Training manual and spare part list 0% O&M training to DSD/ST2 0% Handover spare parts 0%	RC works for NaOH bulk storage compound Complete RC works for NaOH bulk storage compound 0% 0 Installation	Complete Complete Duration RC works for NaOH bulk storage compound 0% 0 45 Installation NaOH storage tanks and associated transfer pump 0% 0 120 Installation NaOH storage tanks and associated transfer pump 0% 0 120 Installation Terminissioning 0% 0 120 Berformance test of the NaOH bulk storage compound and transfer system 0% 0 21 Submission of Application for FS inspection ot FSD 0% 0 144 System/ Defect rectification 0% 0 21 Submission of application for FS reinspection to FSD 0% 0 241 System/ Defect rectification 0% 0 241 System/ Defect rectification for FS reinspection to FSD 0% 0 241 Issue FS certificates 0% 0 141 Issue FS certificates 0% 0 145 Works completion for Handover 0% 0 155 Vertice Submission of C&M manual, Training manual 0% 0 30	Complete Complete Duration allowance RC works for NaOH bulk storage compound 0% 0 45 5 Installation NaOH storage tanks and associated transfer pump 0% 0 120 20 and Commissioning	Compiete Durâtion Ilvance RC works for NaOH buik storage compound 0% 0 45 11-Jan-20 Installation Installation NaOH storage tanks and associated transfer pump 0% 0 120 20 15-Apr-20 Installation NaOH storage tanks and associated transfer pump 0% 0 120 20 15-Apr-20 Installation NaOH storage tanks and associated transfer system 0% 0 120 0 15-Apr-20 Installation by FSD 0% 0 121 0 29-Dec-20 Installation by FSD 0% 0 21 0 29-Dec-20 System/ Defect rectification 0% 0 40 5 02-Feb-21 System/ Defect rectification 0% 0 14 2 19-Jan-21 System/ Defect rectificates 0% 0 14 2 19-Jan-21 System/ Defect rectificates 0% 0 10 0.3May-21 vicks completion for FS inspection to FSD 0% 0 10 0.3May-21 <td>Year Complete Duration allowance Method RC works for NaOH bulk 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<thcode< th=""> Code <thcode< th=""> <thcode< th=""> Code</thcode<></thcode<></thcode<></td>	Year Complete Duration allowance Method RC works for NaOH bulk storage compound 0.6 0.0 0.4 5 11-Jan-20 06-Mar-20 Installation NaOH storage tanks and associated transfer pump 0.0% 0.0 12.0 2.0 15-Apr-20 05-Sep-20 Installation NaOH storage tanks and associated transfer pump 0.0% 0.0 7.5 15 06-Sep-20 18-Apr-20 05-Sep-20 18-Nov-20 Installation NaOH storage tanks and associated transfer system 0.0 0.0 7.5 15 06-Sep-20 18-Apr-20 18-Apr-21 18-Apr	Complete Duration allowance Note RC works for NaOH bulk storage compound 0% 0 45 5 11 Jan-20 06-Mar-20 Installation NaOH storage tanks and associated transfer pump 0% 0 120 20 15-Apr-20 05-Sep-20 Installation NaOH storage tanks and associated transfer system 0% 0 120 20 15-Apr-20 05-Sep-20 Installation by FSD 0 75 15 06-Sep-20 19-Nov-20 Installation by FSD 0% 0 21 0 29-Dec-20 18-Jan-21 System/ Defect rectification 0% 0 21 0 14-Mar-21 01-Feb-21 System/ Defect 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Actual Work		 Milestone 	Contract No. DC/2018/17 She	et7 of 7	7 Date	Revision	Checked	Approved
Actual WOIK	•	▼ IvilleStorie			19-Jul-19	Rev. 0		
Remaining Work	-	Summary	Enhancement of Deodourization System at Stonecutter Island Sewage Treatment Works		29-Aug-19	Rev. 1		
Critical Remaining Work	(
			First Programme					