## **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 March 2021 to May 2021

(Version 1.0)

Certified By	Chap (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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CE/Harbour Area Treatment Scheme Drainage Services Department Sewage Services Branch Harbour Area Treatment Scheme Division 5/F, Western Magistracy 2A Pokfulam Road, Hong Kong

Attn: Mr. Adrian Leung – E/13 (HATS)

#### Agreement No. CE 8/2009 (EP) Harbour Area Treatment Scheme Stage 2A

Our Reference EC/AFK/DC/bw/T261332/ 22.01/L-1517

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

Independent Environmental Checker for Construction Phase – Investigation

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T +852 2828 5757 F +852 2827 1823 mottmac.hk Submission of 7<sup>th</sup> Quarterly EM&A Report for March to May 2021 (v1.0)

31 December 2021

Dear Sir,

By Post

We refer to the captioned Quarterly EM&A Report for March to May 2021 (v1.0) received on 22 December 2021 and confirm that we have no comment.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Ir Dr Anne F Kerr Independent Environmental Checker T +852 2828 5757 anne.kerr@mottmac.com

c.c.

Ove Arup & Partners Hong Kong Limited

Bestwise – SFK Joint Venture Wellab Limited

Mr. Mark Ngan / Mr. Edmund Chow Mr. Keith Ho Dr. Priscilla Choy Fax: 2370 4377

By email By email

Mott MacDonald Hong Kong Limited registered in Hong Kong no. 236497

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## 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 7<sup>th</sup> 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:

	March 2021	
DOU1	Connection for water main	
DOU1R	Excavation work for water main laying	
DOU2	Construction for Air Dust support	
DOU4	Installation for shelter if chemicals compound	
DOU5	Installation for shelter if chemicals compound	
	Isolation Device for Effluent Drop Shaft	
	• Installation (PST No.13/15, 39/41)	
E&M	DOU System	
EXIVI	Mechanical installation in progress	
	Air Relief Duct	
	Installation in progress	
	April 2021	
DOU1	Connection for water main	
DOU1R	Excavation work for water main laying	
DOU2	Construction for Air Dust support	
DOU4	Installation for shelter if chemicals compound	
DOU5	Installation for shelter if chemicals compound	
	Isolation Device for Effluent Drop Shaft	
	• Installation (PST No.13/15, 39/41)	
E&M	DOU System	
Law	<ul> <li>Mechanical installation in progress</li> </ul>	
	Air Relief Duct	
	Installation in progress	
	May 2021	
DOU1	Excavation work for cable duct laying	
DOU1R	Rebar fixing for chemical pipe trench	
DOU2	Construction for Air Duct support	
	Laying Packing Block	
DOU4	Finished Air Duct Support	
DOU5	Installation for Portal frame	
	Isolation Device for Effluent Drop Shaft	
E&M	Installation (PST No.13/15, 39/41)	
EXIVI	<ul> <li>DOU System</li> <li>Mechanical electrical installation in progress</li> </ul>	
	<ul> <li>Air Relief Duct installation in progress</li> </ul>	
	The reaction of the summer of the progress	

 Table I
 Summary of site activities undertaken in the reporting quarter

## **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. Since the proposal for termination of Construction Phase EM&A works for Contract No. DC/2009/10 was approved by EPD on 1<sup>st</sup> June 2021, the monitoring of air quality monitoring station (AM6b, AM7 and AM8) and noise monitoring stations (NM5 and NM6) would be handover to Contract No. DE/2018/17 from Contract No. DC/2009/10 on 1<sup>st</sup> June 2021, the environmental monitoring works of the Project and existing site audits will be conducted by the ET for Contract No. DE/2018/17 from 1<sup>st</sup> June 2021.
- 5. Summary of the non-compliance of the reporting quarter is tabulated in **Table I**.

Monitored By	Monitoring Station	D (	No. of Exceedance		No. of Exceedance Due to the Project		Action
		Parameter	Action Level	Limit Level	Action Level	Limit Level	Taken
DC/2009/10	AM6b	1-hr TSP	0	0	0	0	N/A
		24-hr TSP	0	0	0	0	N/A
	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
		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 II Summary Table for Non-compliance Recorded in the Reporting Quarter

## 1-hour TSP Monitoring

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

## 24-hour TSP Monitoring

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

#### Construction Noise

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

## **Environmental Licenses and Permits**

9. 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**

10. 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

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

 Table II
 Summary Table for Key Information in the Reporting Quarter

Event	<b>Event Details</b>		Action	Status	Remark
Event	Number	Nature	Taken	Status	Kemark
Complaint received	0		N/A	N/A	
Status of submissions covering the reporting quarter	3	Monthly EM&A Reports from February, March and April 2021	Submitted to IEC for verification	No Comment	
Notifications of any summons & prosecutions received	0		N/A	N/A	

## **Summary of Complaints and Prosecutions**

- 12. No environmental complaint and prosecution was received for the Project in the reporting quarter.
- 13. There were no environmental complaint and prosecution received since the commencement of the Project. The Complaint Log is presented in **Appendix H.**
- 14. 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 9<sup>th</sup> 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 9<sup>th</sup> 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 2<sup>nd</sup> September 2019. The Project cover the environmental monitoring works at monitoring stations AM6b, AM7, AM8, NM5 and NM6.
- 1.7 This is the 7<sup>th</sup> quarterly EM&A report summarizing the EM&A works conducted for the Project in March to May 2021.

## **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**.

	ne 1.1 Key Hojeet 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 –	~	Mr. Ken Chan	Site Agent	2620 0070	
SFK Joint Venture	Contractor	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 March to May 2021.
- 1.12 Since the proposal for termination of Construction Phase EM&A works for Contract No. DC/2009/10 was approved by EPD on 1<sup>st</sup> June 2021, the monitoring of air quality monitoring stations (AM6b, AM7 and AM8) and noise monitoring stations (NM5 and NM6) would be handover to Contract No. DE/2018/17 from Contract No. DC/2009/10 in 1<sup>st</sup> June 2021, the environmental monitoring works of the Project and existing site audits will be conducted by the ET for Contract No. DE/2018/17 from 1<sup>st</sup> June 2021.

## 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, AM6b, AM7 and AM8 were selected for impact dust monitoring for the Project. The pervious location of AM6a was not available for future monitoring due to no secured power supply for operation and therefore the previous location of AM6a was relocated to the monitoring station AM6b on 20<sup>th</sup> 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

Monitored by	Location of Measurement
	Works site boundary
DC/2009/10	North West Kowloon Sewage Pumping Station
	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.

Monitoring Station	Parameter	Period	Frequency
All monitoring locations	1-hour TSP	0700-1900 hrs	3 times/ every 6 days
	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 vehicles movement, dust generation from the excavated dusty materials and construction works of 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 3.1         Location of Noise Monitoring Stations	Table 3.1	Location 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	Leq(30 min.) dB(A)	0700-1900 hrs. on weekdays	Weekly	
	L <sub>eq</sub> (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 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		Dataila	Status
Number	From	То	Details	Status
Water Discha	rge License		-	
WT00035198- 2019	15/1/2020	31/1/2025	The application was approved on 15-1-2020.	Valid
<b>Registered</b> Cl	hemical Wasi	te Producer		
WPN5213- 269-B2565-01	N/A	N/A	The application was approved on 14-8-2019.	Valid
<b>Billing</b> Accou	int for Dispo	sal of Constr	uction 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	Notice form received by EPD on 17-7-2019.	N/A
Construction	Noise Permi	t	•	•
GW- RW0442-20	2/10/2020	26/3/2021	The application was approved on 25/9/2020.	Expired
GW- RW0096-21	2/4/2021	25/9/2021	The application was approved on 26/3/2021.	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 nonconformance 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 Quality	N/A	There was no observation in the captioned month.	N/A
Air Quality	N/A	There was no observation in the captioned month.	N/A
Waste/ Chemical Management	N/A	There was no observation in the captioned month.	N/A
Landscape and Visual	N/A	There was no observation in the captioned month.	N/A
Noise	N/A	There was no observation in the captioned month.	N/A
Permit/ Licenses	N/A	There was no observation in the captioned month.	N/A

 Table 4.2a: Observations and Recommendations of Site Audits (March 2021)

Parameters	Ref. Number	Observations	Follow Up Action
Water Quality	N/A	There was no observation in the captioned month.	N/A
Air Quality	N/A	There was no observation in the captioned month.	N/A
Waste/ Chemical Management	N/A	There was no observation in the captioned month.	N/A
Landscape and Visual	N/A	There was no observation in the captioned month.	N/A
Noise	N/A	There was no observation in the captioned month.	N/A
Permit/ Licenses	N/A	There was no observation in the captioned month.	N/A

Table 4.2c: Observations and Recommendations of Site Audits (M	<b>Iay 2021</b> )
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Parameters Ref. Number		Observations	Follow Up Action		
Water Quality	N/A	There was no observation in the captioned month.	N/A		
Air Quality	N/A	There was no observation in the captioned month.	N/A		
Waste/ Chemical Management	N/A	There was no observation in the captioned month.	N/A		
Landscape and Visual	N/A	There was no observation in the captioned month.	N/A		
NoiseN/APermit/ LicensesN/A		There was no observation in the captioned month.	N/A		
		There was no observation in the captioned month.	N/A		

#### **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.

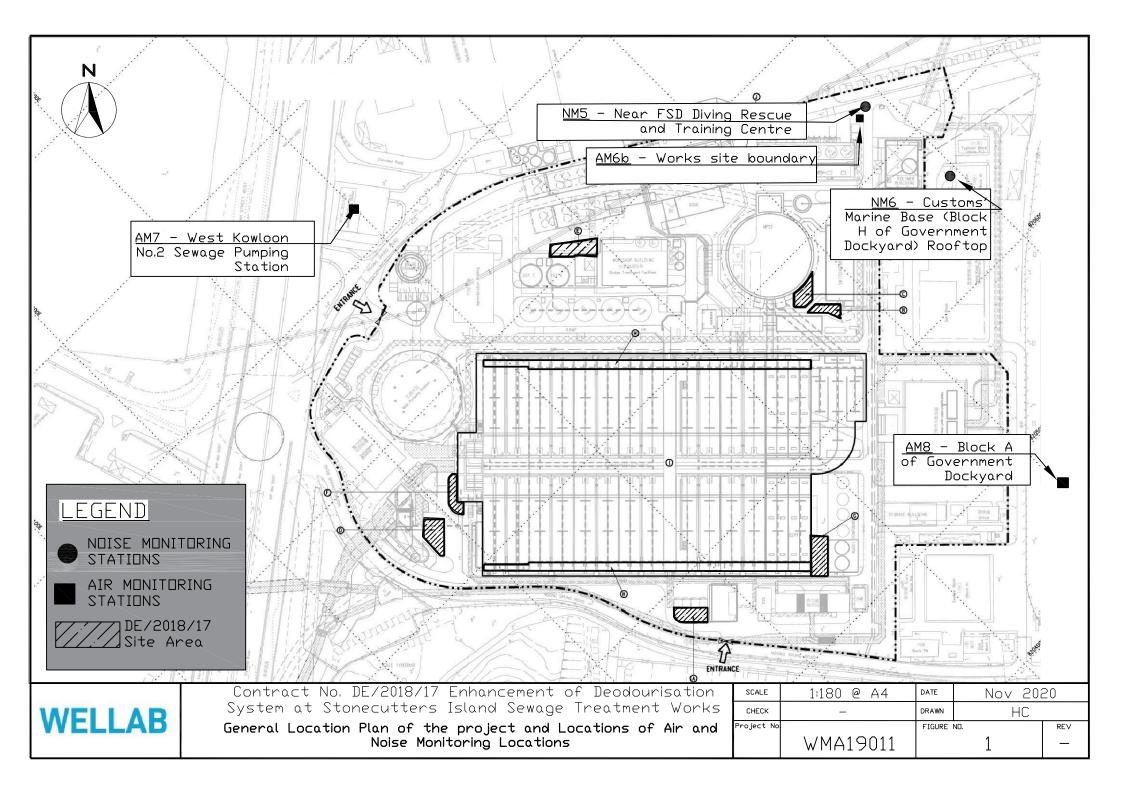
#### Waste/Chemical Management

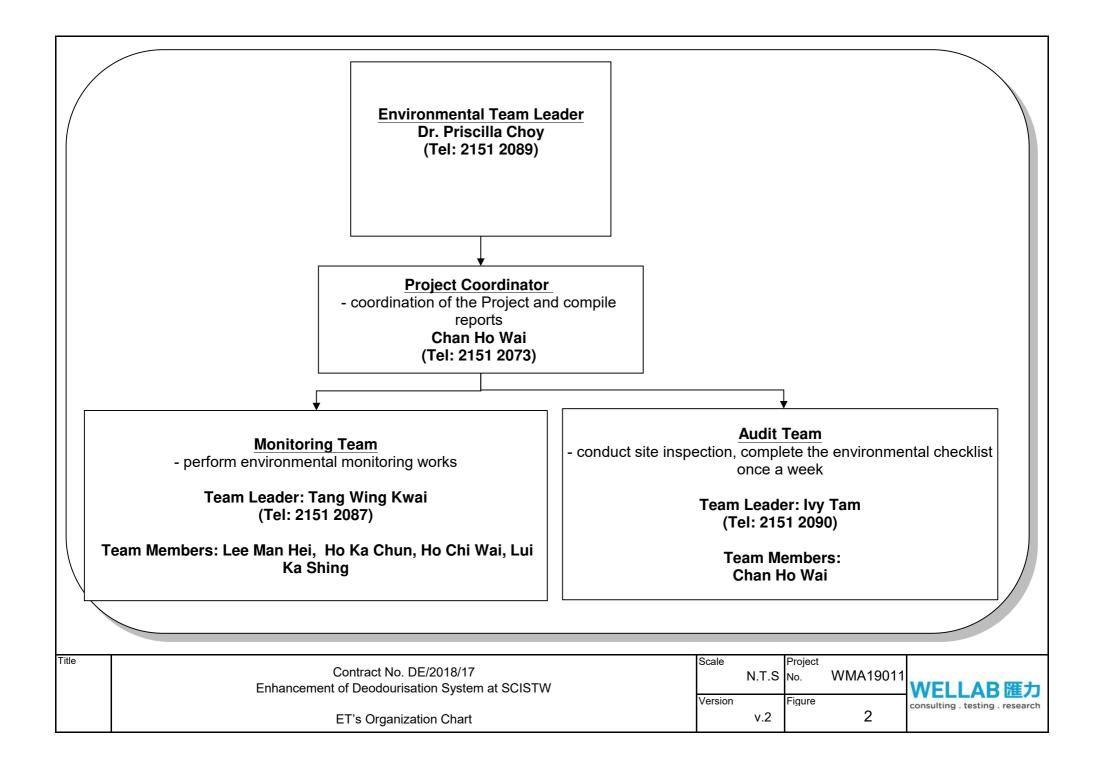
- To provide proper rubbish bins / skips for waste collection;
- To check for any accumulation of wasted materials or rubbish on site;
- To provide adequate chemical waste storage area on site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment; and
- 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-1 Action and Limit Levels for 1-Hour TSP and 24-Hour TSP

Manitaning Stations	Action Le	vel (µg/m³)	Limit Level (µg/m <sup>3</sup> )		
Monitoring Stations	1-hour	24-hour	1-hour	24-hour	
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.

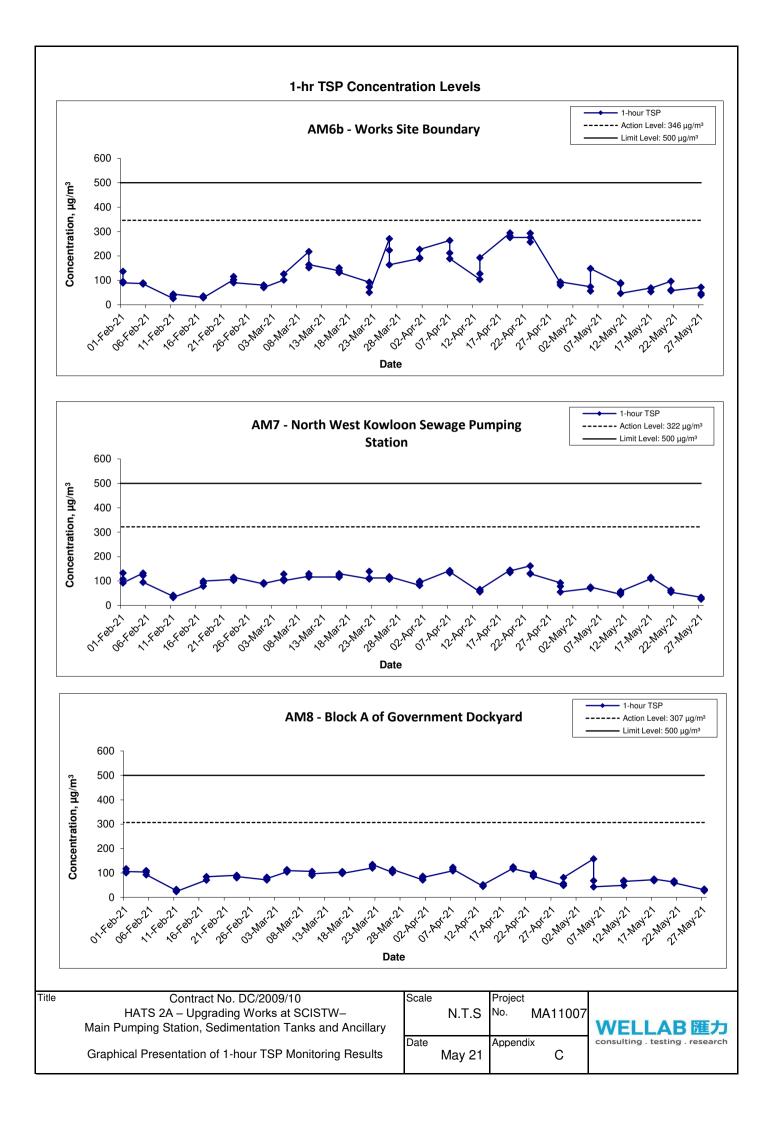
APPENDIX B SUMMARY OF EXCEEDANCE

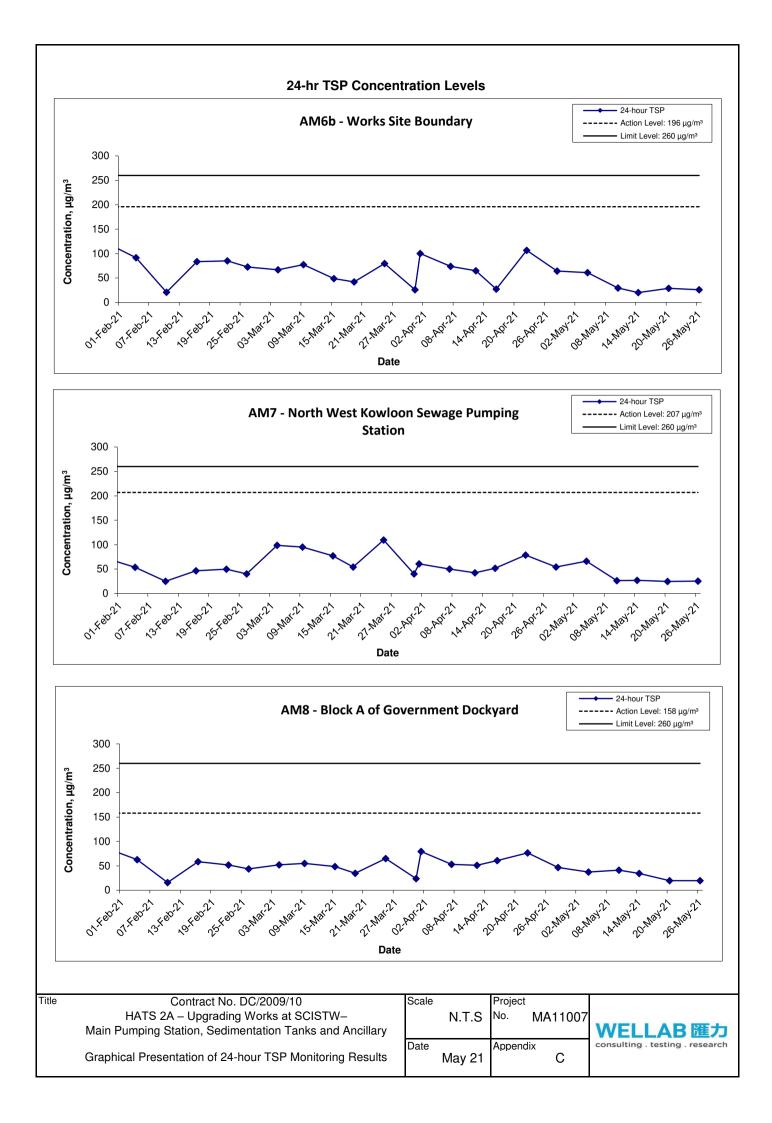
#### **APPENDIX B – SUMMARY OF EXCEEDANCE**

Reporting Quarter: March 2021 to May 2021

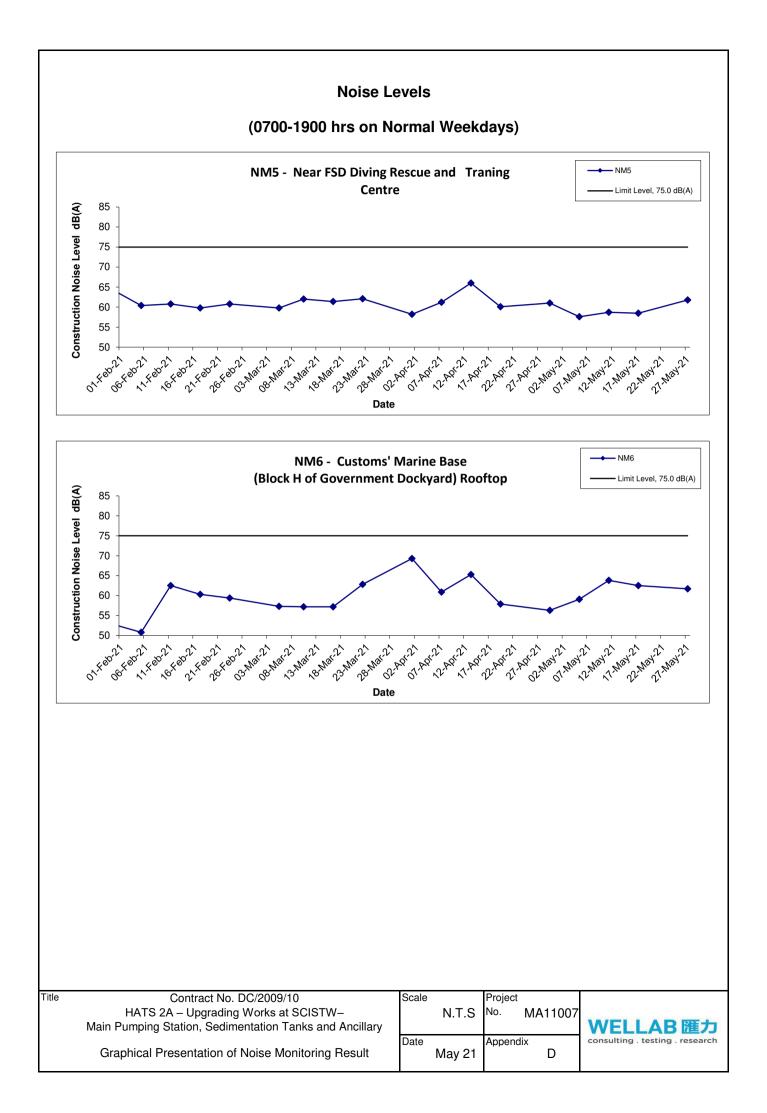
- a) Exceedance Report for 1-hr TSP (NIL)
- b) Exceedance Report for 24-hr TSP (NIL)
- c) Exceedance Report for Construction Noise (NIL)

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.
wonun	Generated	Broken Concrete	Contract	other Projects	Public Fill	Fill		cardboard	(see Note 3)	Waste	general refuse
	(In '000m <sup>3</sup> )	(In '000m <sup>3</sup> )	(In '000m <sup>3</sup> )	$(In '000m^3)$	(In '000m <sup>3</sup> )	(In '000m <sup>3</sup> )	(In '000kg)	(In '000kg)	(In '000kg)	(In '000kg)	(In '000m <sup>3</sup> )
Jan	0.200	0.000	0.000	0.000	0.200	0.000	0.000	1.332	0.000	0.000	0.007
Feb	0.179	0.000	0.000	0.000	0.179	0.000	0.000	3.083	0.000	0.000	0.007
Mar	0.170	0.000	0.000	0.000	0.170	0.000	0.000	3.614	0.000	0.000	0.004
Apr	0.085	0.000	0.000	0.000	0.085	0.000	0.000	2.022	0.000	0.000	0.008
May	0.070	0.000	0.000	0.000	0.070	0.000	0.000	1.456	0.000	0.000	0.002
June											
Sub-total	0.704	0.000	0.000	0.000	0.704	0.000	0.000	11.507	0.000	0.000	0.028
July											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.704	0.000	0.000	0.000	0.704	0.000	0.000	11.507	0.000	0.000	0.028
Total since commence ment of project	4.444	0.399	0.000	0.000	4.444	0.000	12.260	18.233	0.000	0.000	0.077

Monthly Summary Waste Flow Table for 2021 (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/ $m^3$ .

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

APPENDIX F EVENT ACTION PLANS

## **APPENDIX F – Event / Action Plans**

## Table F-1 Event / Action Plan For Air Quality

EVENT	ACTION				
	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.			
А	Air Quality		
3.74	Skip hoist for material transport should be totally enclosed by impervious sheeting.	All construction sites	^
	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.		Λ
	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.		۸
	Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit.		^
	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.		^
	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	^
В	Airborne Noise		

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
4.56-	Use of quiet PME, movable barriers and acoustic mats.	All construction sites	^
4.61			
4.67	Only well-maintained plant shall be operated on-site and plant shall be serviced regularly		٨
	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.		^
	Machines and plant (such as trucks) that may be in intermittent use shall be shut down between		٨
	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	Construction Site Runoff and General Construction Activities	All construction sites	
	The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage	All construction sites	
6.375	should be adopted where applicable.		
6.376	Effluent Discharge		٨
	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.		
6.377	Accidental Spillage of Chemicals		Λ
	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposel Ordinance (Cap 354) and its subsidiary		
	from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be		
	observed and complied with for control of chemical wastes.		
6 270	Any service shop and maintenance facilities should be located on hard standings within a		Λ
6.378	bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and		

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
6.379	<ul> <li>equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.</li> <li>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: <ul> <li>Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.</li> <li>Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.</li> </ul> </li> </ul>		Λ
	• Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.		
6.380	<ul> <li>Construction Works in Close Proximity of Storm Drains or Seafront:</li> <li>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.</li> <li>The use of less or smaller construction plants may be specified to reduce the disturbance to the storm water courses or marine environment.</li> <li>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.</li> <li>Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.</li> <li>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.</li> <li>Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.</li> <li>Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert or sea.</li> </ul>	All construction sites	
D	Waste Management		1

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
	•		
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.		^
9.109	<ul> <li>All waste materials should be segregated into categories covering:</li> <li>excavated materials suitable for reuse on-site;</li> <li>excavated materials suitable for public filling facilities;</li> <li>remaining C&amp;D waste for landfill;</li> <li>chemical waste; and</li> <li>general refuse for landfill.</li> </ul>	All construction sites	^
9.113	Sort C&D waste from demolition of existing facilities to recover recyclable portions such as metals. 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.		
	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.		^
	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.		^
	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.		^
	Provision of sufficient waste disposal points and regular collection of waste.		٨
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.		^

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
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	^
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.		^
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.		^
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.		٨
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.	-	۸
F	Landscape and Visual		
Table 13.7	Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical.	All construction sites	٨
	Existing trees to be retained on site should be carefully protected during construction.		۸
	Trees unavoidably affected by the works should be transplanted where practical.		٨
	Compensatory tree planting should be provided to compensate for felled trees.		٨
	Control of night-time lighting.		۸
Table	Erection of decorative screen hoarding compatible with the surrounding setting.	All construction sites	N/A
13.7			
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.	All construction sites	٨
Н	Hazard to Life		
14A.201	Limiting use of cranes in terms of locations, lifting height, swing angle and setting up safety	Exact location will be	۸
	zone.	determined on construction	
		site by the engineer	

Remarks:	<ul> <li>Compliance of mitigation measure;</li> </ul>
	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: March to May 2021

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

Contract Particulars         Contract Particulars         Contract Particulars           UD0011         Signing         05         0         <	Activity ID	Activity Name	Activity % Complete	Total Float	Original Duration	Time risk allowance	Start	Finish	20	)19 I		Q
Control Particulars         Control         Bit with Papel         Or         Bit with Papel         Or         Bit with Papel         Or         Bit with Papel         Papel           NOXED         Bit with Papel         Or         Bit with Papel         Or         Bit with Papel         Bit	Works Pro	gramme (First Programme)								-	=	G
MODE         Image and a figure and a											_	
Other         Open Server (1999)         Open Server (1999)         Open Server (1999)         Open Server (1999)           Response         Comparison of a finance of the excet incicating COULT 1.2, 4, 5 Profeting agains for [2] (1994)         Open Server (1994)         Open Server (1994)         Open Server (1994)           Pressonal Date of Paris of the Stee         Open Server (1994)         Open Server (1994)         Open Server (1994)         Open Server (1994)           Pressonal Date of Paris of the Stee         Open Server (1994)         Open S			0%	0	0		09-Jul-19*				Star	ting
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PO0008         Acy out of Water Managemer Plan thronomered Management plan         (%)         (1)	PG00030	Approval of Safety Plan	0%	11	21	0	30-Jul-19	19-Aug-19			5	
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Atten         Sector 1 Comparison (100ay)         0%         0         0         000000000000000000000000000000000000	Infrastructu									: ++	-	
EAA Design Schemisten (JAP)         Constrained Allowing         Constrained Allowing           A483         Submission of AP Design A deviced Carbon Filer Systems for DOUI, DOUZ and DOUS         0%         0         7.0         09-Jul-10         05-Jul-19         05-Jul-19           A4860         Approval of AP Design A K-Reid Duck To Ether Dtog Structure         0%         0         7.0         09-Jul-10         05-Jul-19										+		
Mass         Submission of AMP Design Adviced Carbon File Systems for DOUI, DOU2 and DOUS         0%, 0         21         0         0%-ul-19         15-ul-19         4           AB440         Approxed af AP Design Ark Netter Dop Structure         0%, 0         21         0         15-ul-19			0%	0	0	0		05-Dec-19*				
Adds         Approval of ALP Design of Aleris data Carton File Systems for DOUI, DOUE and DOUS         0s         21         0         15.Juli 19         57.Juli 19           Adds         Absonsation of AD Design of Aleria Id Douts for Elliver IDop Structure         0s         0         7.0         06.Juli 10         15.Juli 19         15.Juli 19           Adds         Absonsation of AD Design of Iduation Device tor Elliver IDop Structure         0s         0         7.0         06.Juli 10         15.Juli 19         15.Juli 1			00/		_	0	00 101 10	15 101 10	4		- e.	
Adds         Submission of AIP Design of Ar Heal Duck to Elliver Dop Structure         0%         7         0         D-Jul-19         St-Jul-19           Adds         Advance         0%         0         27         0         St-Jul-19         St-Jul-19           Adds         Advance         0%         0         27         0         St-Jul-19         St-Jul-										2	9U	
Add         Operating of AP Design of AP Design of AP Design of Design Operator ET Elluer (Dop Structure         Op         21         0         15,JJ-19         05,Aug-19           Add         Design of Design Operator ET Elluer (Dop Structure         05         0         21         0         15,JJ-19         14,JJ-19         15,JJ-19         15,JJ-19         14,JJ-19         15,JJ-19								-			Su	bm
Asses         Approval AP Design of Lesiden Devis for Effuent Drog Snucture         0%         1         21         0         16-Jul-19         65-Jul-19           Asses         Summission AP Design of Seature (FPP Sliding Covers of Existing CEPT Tarks         0%         5         7         0         16-Jul-19         16-Jul-19         06-Jul-19         16-Jul-19         06-Jul-19         16-Jul-19         06-Jul-19         16-Jul-19         06-Jul-19         16-Jul-19         06-Jul-19         16-Jul-19         06-Jul-19         06-Jul-19 <td></td> <td>•</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>¢,</td> <td></td> <td></td>		•				-				¢,		
Addition         Submission (AP Design of Suburn 157 PP Binding Covers of Existing CEPT Times         0%         1         7         0         0-9-UI-19         1-5-UI-19           AB000         Approval of AP Design fo power supply, cabling, covers of Existing CEPT Times         0%         57         7         0         0-9-UI-19         0-5-UI-19	A4970	Submission of AIP Design of Isolation Device for Effluent Drop Structure	0%	0	7	0	09-Jul-19	15-Jul-19		-	Sģ	om
Approval of APD Design of Sources of Existing CPPT Tanks         0         1         21         0         15-Jul-19         05-Jul-19           AS010         Approval of AIP Design 6 power supply, cabling, earthing, liphting protection and interface with eff         0%         57         7         0         08-Jul-19         05-Jul-19           AS170         Approval of AIP Design 6 power supply, cabling, earthing, liphting protection and interface with eff         0%         57         21         0         16-Jul-19         05-Aug-19           AM495         Submission of DDAC Vin requirement drawings and General Arrangement of DOU, DOU R, DCW         0%         0         7         0         06-Aug-19         15-Aug-19           AM495         Review and comment on DDA Civil requirement drawings and General Arrangement of DOU, DOU R, DCW         0%         0         7         0         06-Aug-19         15-Aug-19           AM505         Review and Comment on DDA Design of Activated Cabon Filler Systems for DOU, DOU2 and DOU5         0%         0         7         0         06-Aug-19         05-Bag-19         06-Bag-19         15-Bag-19         06-Bag-19         15-Bag-19         0         16-Bag-19         0         21         0         13-Aug-19         08-Bag-19         06-Bag-19         0         21         0         13-Bag-19         06-Bag-19 <td>A4980</td> <td>Approval of AIP Design of Isolation Device for Effluent Drop Structure</td> <td>0%</td> <td>0</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td><b>- 4</b></td> <td>÷</td> <td>1</td>	A4980	Approval of AIP Design of Isolation Device for Effluent Drop Structure	0%	0				-		<b>- 4</b>	÷	1
Ability         Submission of AP Design (p sover supply, cabling, earthing, lighting protection and interface with ed         0%         57         7         0         09-UI-19         (5-UI-19)         05-UI-19         05-UI-										1		-b
Approval of APD Design (a power supply, calating, earthing, lighting protection and interface with ext         0%         57         21         16         Jul 19         06 Aug 19           EMD Design Submission (DDA)         Made         Submission (DDA)         0%         7         0         09-Jul 19         15-Jul 10           Add85         Review and comment on DDA Civil requirement drawings and General Arrangement of DU1, DU1 R, DU2, C         0%         0         7         0         09-Jul 19         12-Aug 19         12-Aug 19           Add97         Approval of DDA Civil requirement drawings and General Arrangement of DU1, DU1 R, DU2, C         0%         0         7         0         68-Jul 19         12-Aug 19								-		J		
EMD estign Submission (DDA)         Provide Submission of DDA Civil requirement drawings and General Arrangement of DOUT, DV         ON         O         O         OB-Jul-19         IS-Jul-19           A4855         Review and comment on DDA Civil requirement drawings and General Arrangement of DOUT, DV         O%         O         7         O         OB-Jul-19         IS-Jul-19												
A4955       Submission of DAA Civit requirement drawings and General Arrangement of DOU1, DOUIR, DOU       0%       0%       7       0       09-UI-19       15-Jul-19         A4956       Review and comment on DDAA Civit requirement drawings and General Arrangement of DOU1, DOUIR, DC       0%       0       7       0       06-Aug-19       12-Aug-19         A4955       Submission of DAA Design of Activated Carbon Filter Systems for DOU1, DOUZ and DOUZ       0%       0       7       0       06-Aug-19       12-Aug-19         A5815       Submission of DAA Design of Activated Carbon Filter Systems for DOU1, DOUZ and DOUS       0%       0       7       0       06-Aug-19       12-Aug-19         A5815       Submission of DAA Design of Arcivated Carbon Filter Systems for DOU1, DOUZ and DOUS       0%       0       7       0       06-Aug-19       12-Aug-19         A6930       Approval of DAA Design of Arrelied Duct for Efluent Drop Structure       0%       0       7       0       10-Aug-19       12-Aug-19       12-Aug-19<			• / •			-		oo nag no		╞┝┥	-	
A4955       Re-submission of DDA/Outl requirement drawings and General Arrangement of DOUI, DOUZ, L       0%       0       7       0       D6-Aug-19       12-Aug-19         A4975       Approval of DDA/Design of Activated Carbon Filter Systems for DOUI, DOU2 and DO       0%       0       7       0       D6-Aug-19       12-Aug-19         A5015       Submission of DDA/Design of Activated Carbon Filter Systems for DOUI, DOU2 and DOU5       0%       0       7       0       D6-Aug-19       12-Aug-19       0         A5030       Review and Comment on DDA/Design of Activated Carbon Filter Systems for DOUI, DOU2 and DOU5       0%       0       7       0       D6-Aug-19       12-Aug-19       0         A5030       Review and Comment on DDA/Design of Ariz Nated Carbon Filter Systems for DOU1, DOU2 and DOU5       0%       0       7       0       D6-Aug-19       12-Aug-19       0       As680       Approval of DDA/Design of Ari Relief Duct for Effluent Drop Structure       0%       0       7       0       D6-Sep-19       0-Sep-19	A4945	Submission of DDA Civil requirement drawings and General Arrangement of DOU1, DOU1R, DOU2	0%	0	7	0	09-Jul-19	15-Jul-19		-	Sģ	omi
A4975       Approval of DDA Civil requirement drawings and General Arrangement of DOUI, DOUZ and DOUS       0%       0       7       0       13-Aug-19       13-Aug-19         A5015       Submission of DDA Design of Activated Carbon Filter Systems for DOU1, DOUZ and DOUS       0%       0       7       0       06-Aug-19       12-Aug-19         A5020       Review and Comment on DDA Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOUS       0%       0       7       0       05-Sep-19       06-Sep-19		Review and comment on DDA of Civil requirement drawings and General Arrangement of DOU1, DC						-		4		Ĩ
A5015       Submission of DDA Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5       0%       0       21       0       13.Aug-19       02.8p-19         A6000       Review and Comment on DDA Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5       0%       0       21       0       13.Aug-19       02.8p-19         A6000       Approval of DDA Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5       0%       0       7       0       0.69.8p-19       16.8p-19       18.8p-19       18.8p-							-	-				
A5000       Review and Comment on DDA besign of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5       0%       0       7       0       03-56p-19       09-56p-19         A5000       Re-submission of DDA Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5       0%       0       7       0       03-56p-19       09-56p-19         A5000       Submission of DDA Design of Air Relief Duct for Effluent Drop Structure       0%       0       7       0       06-40g-19       12-40g-19         A5000       Review and Comment on DDA Design of Air Relief Duct for Effluent Drop Structure       0%       0       7       0       06-40g-19       12-40g-19         A5000       Approval of DDA Design of Air Relief Duct for Effluent Drop Structure       0%       0       7       0       06-40g-19       12-40g-19         A5000       Submission of DDA Design of Isolation Device for Effluent Drop Structure       0%       0       7       0       06-40g-19       12-40g-19         A5100       Review and Comment on DDA Design of Isolation Device for Effluent Drop Structure       0%       0       7       0       03-56p-19       12-40g-19         A5100       Review and Comment on DDA Design of Isolation Device for Effluent Drop Structure       0%       0       7       0       13-40g-19       12-40g-19 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td>7</td></t<>							-	-				7
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       16-Sep-19       16-Sep-19 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td>H.</td></t<>							-	-				H.
A5050       Submission of DDA Design of Air Relief Duct for Effluent Drop Structure       0%       0       7       0       06-Aug-19       12-Aug-19         A5060       Review and Comment on DDA Design of Air Relief Duct for Effluent Drop Structure       0%       0       7       0       03-Sep-19       09-Sep-19         A5070       Re-submission of DDA Design of Air Relief Duct for Effluent Drop Structure       0%       0       7       0       03-Sep-19       09-Sep-19         A5080       Approval of DDA Design of Isolation Device for Effluent Drop Structure       0%       0       7       0       03-Sep-19       09-Sep-19         A5100       Review and Comment on DDA Design of Isolation Device for Effluent Drop Structure       0%       0       7       0       03-Sep-19       09-Sep-19         A5110       Re-submission of DDA Design of Isolation Device for Effluent Drop Structure       0%       0       7       0       03-Sep-19       09-Sep-19         A5120       Approval of DDA Design of Isolation Device for Effluent Drop Structure       0%       1       7       0       03-Sep-19       09-Sep-19         A5130       Review and Comment on DDA Design of Sealant for FRP Silding Covers of Existing CEPT Tanks       0%       1       7       0       03-Sep-19       08-Sep-19         A5160 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td>							-	· ·				
A5060         Review and Comment on DDA Design of Air Relief Duct for Effluent Drop Structure         0%         0         21         0         13-Aug-19         62-Sep-19           A5070         Re-submission of DDA Design of Air Relief Duct for Effluent Drop Structure         0%         0         7         0         03-Sep-19         09-Sep-19         09-Sep-19         09-Sep-19         04-Sep-10         10-Sep-19         16-Sep-19         10-Sep-19         16-Sep-19         10-Sep-19         16-Sep-19         10-Sep-19         16-Sep-19	A5040	Approval of DDA Design of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5	0%	0	7	0	10-Sep-19	16-Sep-19				
Action       Col       Col <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td></t<>							-	-				
A5080         Approval of DDA Design of Air Relief Duct for Effluent Drop Structure         0%         0         7         0         10-Sep-19         16-Sep-19           A5090         Submission of DDA Design of Isolation Device for Effluent Drop Structure         0%         0         7         0         06-Aug-18         12-Aug-19           A5100         Review and Comment on DDA Design of Isolation Device for Effluent Drop Structure         0%         0         7         0         03-Sep-19         09-Sep-19         04-Sep-19         04-Sep		· · ·					Ū	· ·				T
A5090         Submission of DDA Design of Isolation Device for Effluent Drop Structure         0%         0         7         0         06-Aug-19         12-Aug-19           A5100         Review and Comment on DDA Design of Isolation Device for Effluent Drop Structure         0%         0         7         0         06-Aug-19         12-Aug-19           A5100         Re-submission of DDA Design of Isolation Device for Effluent Drop Structure         0%         0         7         0         03-Sep-19         08-Sep-19           A5120         Approval of DDA Design of Isolation Device for Effluent Drop Structure         0%         0         7         0         06-Aug-19         12-Aug-19           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         02-Sep-19           A5160         Approval of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks         0%         1         7         0         06-Aug-19         12-Aug-19         02-Sep-19         45-460         Submission of DDA Design of power supply, cabling, earthing, lightning protection and interface with         0%         57         7         0         06-Aug-19         12-Aug-19         02-Sep-19         48-00         07-Oc-19         12-Aug-19         0		•					· ·	· ·				
A5100       Review and Comment on DDA Design of Isolation Device for Effluent Drop Structure       0%       0       21       0       13-Aug-19       02-Sep-19         A5110       Re-submission of DDA Design of Isolation Device for Effluent Drop Structure       0%       0       7       0       03-Sep-19       09-Sep-19         A5120       Approval of DDA Design of Isolation Device for Effluent Drop Structure       0%       0       7       0       06-Aug-19       12-Aug-19         A5120       Approval of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       06-Aug-19       12-Aug-19       02-Sep-19         A5150       Re-submission of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       06-Aug-19       12-Aug-19       02-Sep-19         A5160       Approval of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       06-Aug-19       12-Aug-19								· ·			4	
A5120       Approval of DDA Design of Isolation Device for Effluent Drop Structure       0%       0       7       0       10-Sep-19       16-Sep-19         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         A5140       Review and Comment on DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       03-Sep-19       09-Sep-19       09-Sep-19       09-Sep-19       09-Sep-19       09-Sep-19       09-Sep-19       09-Sep-19       09-Sep-19       09-Sep-19       16-Sep-19								-	1			F.
A5130       Submission of DDADesign of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       06-Aug-19       12-Aug-19         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       09-Sep-19         A5150       Re-submission of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       03-Sep-19       09-Sep-19       09-Sep-19         A5160       Approval of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       03-Sep-19       09-Sep-19         A5460       Submission of DDA Design of power supply, cabling, earthing, lightning protection and interface witl       0%       57       7       0       03-Sep-19       09-Sep-19         A8020       Review & comment of DDA Design of power supply, cabling, earthing, lightning protection and interface       0%       57       7       0       03-Sep-19       09-Sep-19       48040         A8040       Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface with e       0%       57       7       0       03-Sep-19       09-Sep-19       48040         A5180       FAC totated Carbon Filter System for DOU	A5110	Re-submission of DDA Design of Isolation Device for Effluent Drop Structure	0%	0	7	0	03-Sep-19	09-Sep-19				
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         A5150       Re-submission of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       03-Sep-19       09-Sep-19         A5160       Approval of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       03-Sep-19       16-Sep-19         A5160       Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface with       0%       57       7       0       06-Aug-19       12-Aug-19         A8030       Re-submission of DDA Design of power supply, cabling, earthing, lightning protection and interface       0%       57       7       0       03-Sep-19       09-Sep-19         A8040       Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface       0%       57       7       0       03-Sep-19       16-Sep-19         A8040       Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface with e       0%       57       7       0       03-Sep-19       16-Sep-19         A8040       Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface with e       0%								· ·				
A5150       Re-submission of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       03-Sep-19       09-Sep-19         A5160       Approval of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       10-Sep-19       16-Sep-19       16-Sep-19         A5160       Submission of DDA Design of power supply, cabling, earthing, lightning protection and interface witl       0%       57       7       0       06-Aug-19       12-Aug-19         A8020       Review & comment of DDA Design of power supply, cabling, earthing, lightning protection and interface witl       0%       57       7       0       03-Sep-19       99-Sep-19         A8030       Re-submission of DDA Design of power supply, cabling, earthing, lightning protection and interface       0%       57       7       0       03-Sep-19       99-Sep-19         A8040       Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface with       0%       57       7       0       10-Sep-19       16-Sep-19         A8040       Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface with       0%       6       0       07-Sep-19       24-Oct-19         A5180       Procurement of Activated Carbon Filter System for DOU1       DOU2       0% </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ū</td> <td>-</td> <td></td> <td></td> <td></td> <td>H</td>							Ū	-				H
A5160       Approval of DDA Design of Sealant for FRP Sliding Covers of Existing CEPT Tanks       0%       1       7       0       10-Sep-19       16-Sep-19         A5460       Submission of DDA Design of power supply, cabling, earthing, lightning protection and interface with       0%       57       7       0       06-Aug-19       12-Aug-19         A8020       Review & comment of DDA Design of power supply, cabling, earthing, lightning protection and interface with       0%       57       7       0       03-Sep-19       09-Sep-19         A8030       Re-submission of DDA Design of power supply, cabling, earthing, lightning protection and interface       0%       57       7       0       03-Sep-19       09-Sep-19         A8030       Re-submission of DDA Design of power supply, cabling, earthing, lightning protection and interface with e       0%       57       7       0       03-Sep-19       09-Sep-19         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         A6180       Procurement of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5       0%       0       48       0       07-Sep-19       24-Oct-19         A5190       FAT of Activated Carbon Filter System for DOU2       0%       0       14							-	· · ·				
A8020       Review & comment of DDA Design of power supply, cabling, earthing, lightning protection and interface       0%       57       21       0       13-Aug-19       02-Sep-19         A8030       Re-submission of DDA Design of power supply, cabling, earthing, lightning protection and interface       0%       57       7       0       03-Sep-19       09-Sep-19         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         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         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         A8040       Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface with e       0%       0       48       0       07-Sep-19       24-Oct-19         A5180       Procurement of Activated Carbon Filter System for DOU1       DOU2 and DOU5       0%       0       14       0       13-Aug-19       02-Sep-19       16-Sct-19         A5210       FAT of Activated Carbon Filter System for DOU2 to Site							· ·	· ·				
A8030       Re-submission of DDA Design of power supply, cabling, earthing, lightning protection and interface       0%       57       7       0       03-Sep-19       09-Sep-19         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         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         Procuement and Delivery of Equipment/ Material for Section 1 of Works	A5460	Submission of DDA Design of power supply, cabling, earthing, lightning protection and interface with	0%	57	7	0	06-Aug-19	12-Aug-19			Ļ	-0
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         Procurement and Delivery of Equipment/ Material for Section 1 of Works       50%       0       48       0       07-Sep-19       24-Oct-19         A5180       Procurement of Activated Carbon Filter System for DOU1       D0U2 and DOU5       0%       0       48       0       07-Sep-19       24-Oct-19         A5190       FAT of Activated Carbon Filter System for DOU1 to Site       0%       0       14       0       13-Oct-19       12-Oct-19         A5200       Delivery of Activated Carbon Filter System for DOU2       0%       0       6       0       13-Oct-19       18-Oct-19         A5210       FAT of Activated Carbon Filter System for DOU2 to Site       0%       0       14       0       19-Oct-19       11-Nov-19         A5220       Delivery of Activated Carbon Filter System for DOU5 to Site       0%       0       14       0       19-Oct-19       14-Nov-19         A5230       FAT of Activated Carbon Filter System for DOU5 to Site       0%       0       14       0       25-Oct-19       07-Nov-19         A5240       Delivery of Activated Carbon Filter System for DOU5 to Site       0%	A8020		0%	57			13-Aug-19	02-Sep-19				•
Procuement and Delivery of Equipment/ Material for Section 1 of Works           A5180         Procurement of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5         0%         0         48         0         07-Sep-19         24-Oct-19           A5190         FAT of Activated Carbon Filter System for DOU1         00%         0         6         0         07-Oct-19         12-Oct-19         12-Oct-19         12-Oct-19         12-Oct-19         26-Oct-19         45200         Delivery of Activated Carbon Filter System for DOU2         0%         0         6         0         13-Oct-19         26-Oct-19         18-Oct-19         18-Oct-19 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· ·</td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td>							· ·	· ·				
A5180         Procurement of Activated Carbon Filter Systems for DOU1, DOU2 and DOU5         0%         0         48         0         07-Sep-19         24-Oct-19           A5190         FAT of Activated Carbon Filter System for DOU1         00%         0         6         0         07-Oct-19         12-Oct-19         12-Oct-19           A5200         Delivery of Activated Carbon Filter System for DOU1 to Site         0%         0         14         0         13-Oct-19         26-Oct-19           A5210         FAT of Activated Carbon Filter System for DOU2         0%         0         6         0         13-Oct-19         18-Oct-19           A5220         Delivery of Activated Carbon Filter System for DOU2 to Site         0%         0         14         0         19-Oct-19         18-Oct-19           A5230         FAT of Activated Carbon Filter System for DOU5 to Site         0%         0         14         0         19-Oct-19         24-Oct-19           A5240         Delivery of Activated Carbon Filter System for DOU5 to Site         0%         0         14         0         25-Oct-19         07-Nov-19           A5250         Procurement of FRPAir Ducts for Effluent Drop Structure         0%         0         45         0         02-Sep-19         16-Oct-19           A5260			0%	57	7	0	10-Sep-19	16-Sep-19				
A5190         FAT of Activated Carbon Filter System for DOU1         0000         000         000         000			0%	0	48	0	07-Sep-19	24-Oct-19	1			
A5210         FAT of Activated Carbon Filter System for DOU2         000         000         6         0         13-Oct-19         18-Oct-19           A5220         Delivery of Activated Carbon Filter System for DOU2 to Site         00%         0         14         0         19-Oct-19         01-Nov-19           A5230         FAT of Activated Carbon Filter System for DOU5 to Site         00%         0         6         0         19-Oct-19         24-Oct-19           A5240         Delivery of Activated Carbon Filter System for DOU5 to Site         00%         0         14         0         25-Oct-19         07-Nov-19           A5250         Procurement of FRP Air Ducts for Effluent Drop Structure         0%         0         455         0         02-Sep-19         16-Oct-19           A5260         FAT of FRP Air Ducts for Effluent Drop Structure to Site         0%         0         7         0         17-Oct-19         23-Oct-19           A5270         Delivery of FRP Air Ducts for Effluent Drop Structure to Site         0%         0         7         0         17-Oct-19         23-Oct-19           A5280         Procurement of Isolation Devices for Effluent Drop Structure         0%         0         30         0         02-Sep-19         01-Oct-19		· · · · ·					· ·		<u> </u>	11		ſŤ
A5220         Delivery of Activated Carbon Filter System for DOU2 to Site         0%         0         14         0         19-Oct-19         01-Nov-19           A5230         FAT of Activated Carbon Filter System for DOU5         0%         0%         0         6         0         19-Oct-19         24-Oct-19           A5240         Delivery of Activated Carbon Filter System for DOU5 to Site         0%         0         14         0         25-Oct-19         07-Nov-19           A5250         Procurement of FRP Air Ducts for Effluent Drop Structure         0%         0         45         0         02-Sep-19         16-Oct-19           A5260         FAT of FRP Air Ducts for Effluent Drop Structure to Site         0%         0         7         0         10-Oct-19         16-Oct-19           A5270         Delivery of FRP Air Ducts for Effluent Drop Structure to Site         0%         0         7         0         17-Oct-19         23-Oct-19           A5280         Procurement of Isolation Devices for Effluent Drop Structure         0%         0         30         0         02-Sep-19         01-Oct-19		· · ·	0%									
A5230         FAT of Activated Carbon Filter System for DOU5         000         000         6         0         19-Oct-19         24-Oct-19           A5240         Delivery of Activated Carbon Filter System for DOU5 to Site         00%         0         14         0         25-Oct-19         07-Nov-19           A5250         Procurement of FRP Air Ducts for Effluent Drop Structure         0%         0         45         0         02-Sep-19         16-Oct-19           A5260         FAT of FRP Air Ducts for Effluent Drop Structure         0%         0         7         0         17-Oct-19         23-Oct-19           A5270         Delivery of FRP Air Ducts for Effluent Drop Structure to Site         0%         0         7         0         17-Oct-19         23-Oct-19           A5280         Procurement of Isolation Devices for Effluent Drop Structure         0%         0         30         0         02-Sep-19         01-Oct-19												
A5240         Delivery of Activated Carbon Filter System for DOU5 to Site         0%         0         14         0         25-Oct-19         07-Nov-19           A5250         Procurement of FRP Air Ducts for Effluent Drop Structure         0%         0         45         0         02-Sep-19         16-Oct-19           A5260         FAT of FRP Air Ducts for Effluent Drop Structure         0%         0         7         0         10-Oct-19         16-Oct-19           A5270         Delivery of FRP Air Ducts for Effluent Drop Structure to Site         0%         0         7         0         17-Oct-19         23-Oct-19           A5280         Procurement of Isolation Devices for Effluent Drop Structure         0%         0         30         0         02-Sep-19         01-Oct-19												
A5250         Procurement of FRP Air Ducts for Effluent Drop Structure         0%         0         45         0         02-Sep-19         16-Oct-19           A5260         FAT of FRP Air Ducts for Effluent Drop Structure         0%         0         7         0         10-Oct-19         16-Oct-19           A5270         Delivery of FRP Air Ducts for Effluent Drop Structure to Site         0%         0         7         0         17-Oct-19         23-Oct-19           A5280         Procurement of Isolation Devices for Effluent Drop Structure         0%         0         30         0         02-Sep-19         01-Oct-19									<b> </b>	-++		
A5260         FAT of FRP Air Ducts for Effluent Drop Structure         0%         0         7         0         10-Oct-19         16-Oct-19           A5270         Delivery of FRP Air Ducts for Effluent Drop Structure to Site         0%         0         7         0         17-Oct-19         23-Oct-19           A5280         Procurement of Isolation Devices for Effluent Drop Structure         0%         0         30         0         02-Sep-19         01-Oct-19												
A5280 Procurement of Isolation Devices for Effluent Drop Structure 0% 0 30 0 02-Sep-19 01-Oct-19												
Ab290 Delivery of Isolation Devices for Effluent Drop Structure to Site 0% 0 7 0 02-Oct-19 08-Oct-19									ļ			
	A5290	Derivery or isolation Devices for Effluent Drop Structure to Site	0%	0	7	U	02-Oct-19	U8-Uct-19		Ш	- 1	<u>i li</u>

2019								2020	)										2021				
	Q3	Q4	,	Q1			Q2		(	Q3			Q4	1		Q1			Q2		Works P	Q3	
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Startin	ng date of Pro	ect																	V 03-IV	lay-21, 1	Contract	Particul	ars
Olditar																			Com	¦ pletion l	pate (66	5 days)	
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♦ Startin	ng date of Pro	ject													KDA-	Comp	etion of	all other	works	includin	ng DOUs	124	5 Polis
🕈 09-Jul	I-19, Access	Date of Part of t	he Site													Comp			WORKS			1, 2, 7,	
Part A	-L																						
		19, Preliminary			nents																		
		cation/ hotifica	tion of EF	D and LD																			
	Submission o Approva	of Safety Plan																					
	Submission o	WasteManag	ement Pla			· · · ·																	
		f Waste Manag			ental Manag	pem ent p	olan														ļ		
		Subcontractor M Subcontractor I																					
	- +	taffing Proposa	1 7																				
⁴►□ △	Approval of Si	affing Proposal																					
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			🔸 Secti	<ul> <li>06-Jan-20</li> <li>on 1 Complet</li> </ul>			Urks																
╏┢┿┿╋	05-Aug-19,	E&M Dedign Su	hmission																				
Subr		Design of Act												-									
Swor		AIP Design of A			-1		DOU2	and DOL	12					<u> </u>									
	Approval of	AIP Design of A	ir Relief	Duct for Efflue	nt Drop Stri	ucture																	
Subr		Design of Isc																					
Subr		AIP Design of Design of Se	1				PT Tanl	s															
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		AIP Design fo 6-Sep-19, E&N	Docian	hubmiccion (F																			
Subr	mission of DI	A Civil require	ment drav	wings and Ge	neral Arrang	gement o	of DOU1	I, DOU1	R, DOU2	2, DO'L	U4 and	DOU5											
	Review and	comment on L	DA of Civ	I requirement	drawings a	and Gene	eral Arra	angemen	nt of DOL	J1, DC	DU1R, I	90U2, L		1	5								
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		n of DDA Civil i	1.1			ĩ					2, DOU	4 and D	005				1						
		ew and Comm									and DC	U5											
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		pproval of DD. m of DDA Desi	-					JU1, DO	U2 and I	DOU5	•												
		ew and Comm						op Struc	ture														
		submission of																					
		pproval of DD. on of DDA Desi						re						-									
		ew and Comm						Drop Stru	ucture														
	Re Re	submission ol	DDA Des	ign of Isolatio	n Device to	r Effluen	it Drop S	Structure															
		pproval of DD. m of DDA Desi												<u> </u>	ļ								
		ew and Comm								EPT Ta	anks												
	Re	submission of	DDA Des	ign of Sealan	for FRP SI	iding co	vers of	Existing	CEPT Ta	anks													
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		n of DDA Desi ew & comment		1 · · · r	1 - 1									nstall									
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	-			RP Air Ducts f			ucture																
			1	Air Ducts for			ture to S	Site															
		Froducemen	t of Isolat	on Devices fo	or Effluent D	Drop Stru	cture																
	Ģ	📕 Delivery o	fIsolation	Devices for	Effluent Dro	p Structi	ure to Si	te															
DOMAN	117									C		<u>(</u>	D.	ate		Revis	ion		Checke	d	۸	pproved	
DC/2018	/1/									She	eet 1 o	19-	Jul-19		Rev.	0			SHOULE			pp: 0veu	
ecutter Is	land Sewa	ge Treatmei	ıt Worl	ks								29-	Aug-19		Rev.	1							
gramme																							

Actual Work

Milestone

Summary

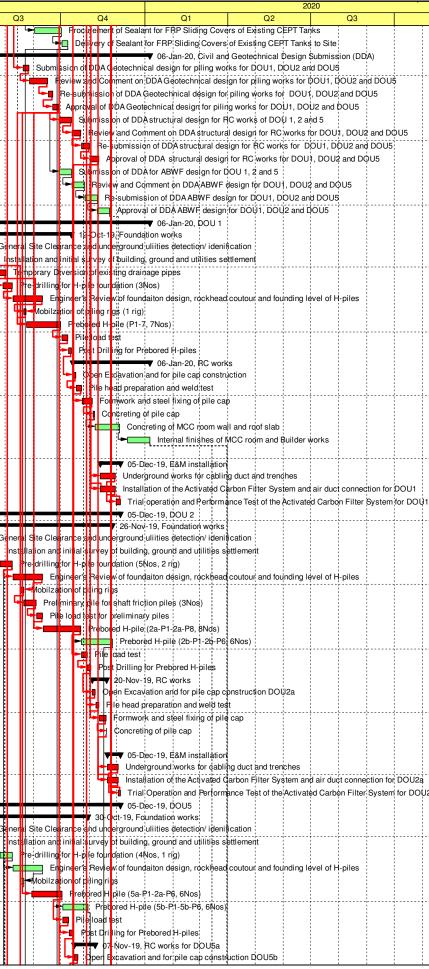
Remaining Work

Critical Remaining Work

Contract No. DC/2018/17

Enhancement of Deodourization System at Stonecutter Island Sewage Tr

D	Activity Name	Activity % To Complete	otal Float	Original Time risk Duration allowance	Start	Finish	201	9		Q3			Q4	1
\$5300	Procurement of Sealant for FRP Sliding Covers of Existing CEPT Tanks	0%	1	30 0	02-Sep-19	01-Oct-19		Π		· •			ureme	
\$5310	Delivery of Sealant for FRP Sliding Covers of Existing CEPT Tanks to Site	0%	1	7 0	02-Oct-19	08-Oct-19						🔲 De	ivery	of Se
	eotechnical Design Submission (DDA)						\ \	Ħ			Subm			
A5320	Submission of DDA Geotechnical design for piling works for DOU1, DOU2 and DOU5	0%	0	7 0	20-Aug-19	26-Aug-19		·				eview a		
15330	Review and Comment on DDA Geotechnical design for piling works for DOU1, DOU2 and DOU5	0%	0	21 0	27-Aug-19	16-Sep-19						6 U U		
\5340	Re-submission of DDA Geotechnical design for piling works for DOU1, DOU2 and DOU5	0%	0	5 0 7 0	17-Sep-19	21-Sep-19						Re-sub Appro		
\5350 \5400	Approval of DDA Geotechnical design for piling works for DOU1, DOU2 and DOU5	0%	0		22-Sep-19	28-Sep-19 12-Oct-19				int-			ubmiss	
	Submission of DDA structural design for RC works of DOU 1, 2 and 5	0%	-	14 0 10 0	29-Sep-19						1 1		Revie	- i -
7500 7510	Review and Comment on DDA structural design for RC works for DOU1, DOU2 and DOU5	0%	0	10 0	13-Oct-19 23-Oct-19	22-Oct-19 01-Nov-19		·				E		ev al sub
	Re-submission of DDA structural design for RC works for DOU1, DOU2 and DOU5	0%											#1 1	Appr
7520 7840	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-19 12-Oct-19							ut miss	
					29-Sep-19						1	· – · · ·	Revi	
7850	Review and Comment on DDA ABWF design for DOU1, DOU2 and DOU5	0%	115	14 0	13-Oct-19	26-Oct-19								- i -
7860	Re-submission of DDA ABWF design for DOU1, DOU2 and DOU5	0%	115	14 0	27-Oct-19	09-Nov-19				╌╍┝╺┝				Re-s
7870	Approval of DDA ABWF design for DOU1, DOU2 and DOU5	0%	115	14 0	10-Nov-19	23-Nov-19		Ц		Ш			ITE	A
OU 1 Foundatio	on works							H	-			15	Dct-	19, F
A1130	General Site Clearance and underground uliities detection/ idenification	0%	0	6 0	09-Jul-19	15-Jul-19			Gen	eral S	ite Cle	rance a	and un	ncerg
A1131	Installation and initial survey of building, ground and utilities settlement	0%	0	6 0	16-Jul-19	22-Jul-19		5			on and			
A1132	Temporary Diversion of existing drainage pipes	0%	0	15 0	16-Jul-19	01-Aug-19	1 - I.	4			orary D			
A1133	Pre-drilling for H-pile foundation (3Nos)	0%	0	10 0	29-Jul-19	08-Aug-19		1	-		drilling			
A1134	Engineer's Review of foundaiton design, rockhead coutour and founding level of H-piles	0%	0	28 0	09-Aug-19	10-Sep-19			Ŧ		🗖 En	gineer's	Revie	ew o
A1137	Mobilzation of piling rigs (1 rig)	0%	0	3 0	21-Aug-19	23-Aug-19				4	Nobilza	tior of	pling	r gs
A1140	Prebored H-pile (P1-7, 7Nos)	0%	0	32 0	24-Aug-19	30-Sep-19				₩			oled H	
A1430	Pile load test	0%	0	6 0	02-Oct-19	08-Oct-19	<b> </b>	+†			<b>q</b>	📕 Pil	eload	test
A1440	Post Drilling for Prebored H-piles	0%	0	4 0	09-Oct-19	12-Oct-19						_	os t Dri	
RC works					,								╢┼─	
A5470	Open Excavation and for pile cap construction	0%	0	4 0	14-Oct-19	17-Oct-19						<b>ال_ا</b>	Doen E	Ξĸoa
A5480	Pile head preparation and weld test	0%	0	5 0	18-Oct-19	23-Oct-19						4	Pile h	nead
A5490	Formwork and steel fixing of pile cap	0%	0	10 0	24-Oct-19	04-Nov-19		11					Fc	ormw
A5500	Concreting of pile cap	0%	0	2 0	05-Nov-19	06-Nov-19						.   P	<b>I</b> C	cnër
A5510	Concreting of MCC room wall and roof slab	0%	76	24 2	07-Nov-19	04-Dec-19							Æ	-
A5520	Internal finishes of MCC room and Builder works	0%	76	18 2	13-Dec-19	06-Jan-20								L
Drainage v	works												<b>  </b> _	
E&M instal		001	0	45 0	40 No. 40	00 Nov 40								
A5535	Underground works for cabling duct and trenches	0%	0	15 0	13-Nov-19	29-Nov-19							H	etti -
A5540 A5550	Installation of the Activated Carbon Filter System and air duct connection for DOU1	0%	0	15 1 5 0	13-Nov-19 30-Nov-19	29-Nov-19 05-Dec-19								Ε.
A000 2	Trial operation and Performance Test of the Activated Carbon Filter System for DOU1	078	0	5 0	30-1100-13	03-Dec-19		₩	<u> </u>	▃╟┙		┉┉	╨┷	Ŀ
Foundatio	on works						<b> </b> -;	+						<b>- 7</b> 1 2
A5380	General Site Clearance and underground uliities detection/ idenification	0%	0	6 0	09-Jul-19	15-Jul-19		1	Gen		ite Cle			
A5390	Installation and initial survey of building, ground and utilities settlement	0%	0	9 0	16-Jul-19	25-Jul-19		4	📕 🔤 nr		ion an			
A5410	Pre-drilling for H-pile foundation (5Nos, 2 rig)	0%	0	12 0	26-Jul-19	08-Aug-19		1	-	Pre-	drilling			
A5420	Engineer's Review of foundaiton design, rockhead coutour and founding level of H-piles	0%	0	28 0	09-Aug-19	10-Sep-19			-		📕 En	gineer's	Revie	ew o
A5430	Mobilzation of piling rigs	0%	0	3 0	17-Aug-19	21-Aug-19					Nobilza			
A5440	Preliminary pile for shaft friction piles (3Nos)	0%	0	12 0	21-Aug-19	03-Sep-19				뛰널	Prel	minary	cile fo	)r sh
A5450	Pile load test for preliminary piles	0%	0	6 0	04-Sep-19	10-Sep-19					🗖 Pil	e lo <mark>a</mark> d t	est for	brel
A5560	Prebored H-pile (2a-P1-2a-P8, 8Nos)	0%	0	35 0	11-Sep-19	22-Oct-19			E		-		Prebo	bled
A5565	Prebored H-pile (2b-P1-2b-P6, 6Nos)	0%	51	30 0	23-Oct-19	26-Nov-19					.	-0		<b>_</b> ∫F
A5570	Pile load test	0%	0	6 0	23-Oct-19	29-Oct-19		T					Pile	) oa
A5580	Post Drilling for Prebored H-piles	0%	0	4 0	30-Oct-19	02-Nov-19						9		
RC works														20
A1450	Open Excavation and for pile cap construction DOU2a	0%	0	4 0	04-Nov-19	07-Nov-19			E			, I Y	<b>p</b> l b	Dpen
A1455	Pile head preparation and weld test	0%	0	3 0	08-Nov-19	11-Nov-19		- <b>-</b>						File
A1460	Formwork and steel fixing of pile cap	0%	0	7 0	12-Nov-19	19-Nov-19							177	Fo
A1470	Concreting of pile cap	0%	0	1 0	20-Nov-19	20-Nov-19						, I 1	🎁	C C
Drainage v														
E&M instal A5355	Illation Underground works for cabling duct and trenches	0%	0	10 0	21-Nov-19	02-Dec-19								Ľ
A5355 A5360	Installation of the Activated Carbon Filter System and air duct connection for DOU2a	0%	0	10 0	21-Nov-19 21-Nov-19	02-Dec-19 02-Dec-19	<u> </u>	++				ç <b> </b> <del> </del>	ŀ₽₽	E
A5360 A5370	Trial Operation and Performance Test of the Activated Carbon Filter System and air duct connection for DOU2a	0%	0	3 0	03-Dec-19	02-Dec-19 05-Dec-19							1 T	Ę
A5370	That Operation and Ferromatice rest of the Activated Carbon Filter System for DOU2a	0%	U	3 U	00-060-19	00-060-19	,	₽	_	┛		لالمحال	<u>⊨</u>	┥
Foundatio	on works						•	₩	╧╋			┉╋┉┦	30-	Oct
A5650	General Site Clearance and underground uliities detection/ idenification	0%	8	6 0	09-Jul-19	15-Jul-19	-		Gene		ite Cle			
	Installation and initial survey of building, ground and utilities settlement	0%	8	9 0	16-Jul-19	25-Jul-19		4	_ Ins		tion and		- E	
A5660	Pre-drilling for H-pile foundation (4Nos, 1 rig)	0%	8	12 0	26-Jul-19	08-Aug-19		14	-	Pre	drilling			
A5660 A5670		0%	8	28 0	09-Aug-19	10-Sep-19			H-I	₫		gineer's		
	Engineer's Review of foundaiton design, rockhead coutour and founding level of H-piles		8	3 0	17-Aug-19	21-Aug-19			E		Nobilza			
A5670	Engineer's Review of foundaiton design, rockhead coutour and founding level of H-piles Mobilzation of piling rigs	0%			30-Aug-19	02-Oct-19				╝╋┥		Freb	red ⊦	l pil
A5670 A5680		0%	0	28 0			1	11		111		/*** <b>*</b> ****	6 Balt	bore
A5670 A5680 A5690	Mobilzation of piling rigs		0 25	28 0 24 0	03-Oct-19	30-Oct-19	1 D		E .		<u>п</u>			
A5670 A5680 A5690 A5720	Mobilzation of piling rigs Prebored H-pile (5a-P1-2a-P6, 6Nos)	0%			03-Oct-19 03-Oct-19	30-Oct-19 09-Oct-19					ļ		e load	test
A5670 A5680 A5690 A5720 A5730	Mobilzation of piling rigs Prebored H-pile (5a-P1-2a-P6, 6Nos) Prebored H-pile (5b-P1-5b-P6, 6Nos)	0% 0%	25	24 0								📕 Pil	e load ost Dr	ri ling
A5670 A5680 A5690 A5720 A5730 A5740 A5750	Mobilzation of piling rigs Prebored H-pile (5a-P1-2a-P6, 6Nos) Prebored H-pile (5b-P1-5b-P6, 6Nos) Pile load test	0% 0% 0%	25 0	24 0 6 0	03-Oct-19	09-Oct-19 14-Oct-19					I	Pi Pi	e Ioad ost Dr	ri ling )7-No
A5670 A5680 A5690 A5720 A5730 A5740 A5750	Mobilzation of piling rigs         Prebored H-pile (5a-P1-2a-P6, 6Nos)         Prebored H-pile (5b-P1-5b-P6, 6Nos)         Pile load test         Post Drilling for Prebored H-piles	0% 0% 0%	25 0	24 0 6 0	03-Oct-19	09-Oct-19						Pi Pi	e load ost Dr	ri lino )7-No
A5670 A5680 A5690 A5720 A5730 A5740 A5750 <b>C works</b> A5590	Mobilzation of piling rigs         Prebored H-pile (5a-P1-2a-P6, 6Nos)         Prebored H-pile (5b-P1-5b-P6, 6Nos)         Pile load test         Post Drilling for Prebored H-piles         for DOU5a	0% 0% 0%	25 0 0	24 0 6 0 4 0	03-Oct-19 10-Oct-19	09-Oct-19 14-Oct-19	Jo Di		2018	/17		Pi Pi	e Ioad ost Dr	ri ling )7-No



Critical Remaining Work

Q3			Q4			Q1			2021 Q2			Q3	
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Sh	eet 2 d		19-Jul-19	ate	Rev.	Revis 0	ion		Checke	d	A	pproved	
			29-Aug-19		Rev.								

	Activity Name	Activity % Tot Complete		Original Time risk Duration allowance		Finish			Q3			Q4	Q1	Q2	2020	Q3	
A5600	Pile head preparation and weld test	0%	0	4 0	21-Oct-19	24-Oct-19					<b>1 1</b>	ile head pr	eparation and weld tes	t			
A5610	Formwork and steel fixing of pile cap	0%	0	10 0	25-Oct-19	05-Nov-19					▐▕┡▀∰	Formwor	k and steel fixing of pil	e cap			
45620	Concreting of pile cap	0%	0	2 0	06-Nov-19	07-Nov-19						Concreti	ng of pile cap				
ainage w																	
&M install A5625		0%	0	18 5	08-Nov-19	28-Nov-19				÷	<b>.</b>		5-Dec-19, E&M install derground works for c		00		÷
A5625 A5630	Underground works for cabling duct and trenches Installation of the Activated Carbon Filter System and air duct connection for DOU5b	0%	0	18 2	08-Nov-19								tallation of the Activate	1 F	1	ucticonnec	ction for DOU5h
A5640	Trial Operation and Performance Test of the Activated Carbon Filter System for DOU5b	0%	0	6 0	29-Nov-19								rial Operation and Per				
PT tank		0,0	Ű	0	201101 10	00 200 10	- I -		_				5-Dec-19, CEPT tank				
	effluent drop shaft												5-Dec-19, Air ducts of	effluent drop shaft			
090	Installation of FRP air duct for effluent drop structure	0%	0	25 0	24-Oct-19	21-Nov-19					<b>-</b>	Insta	Ilation of FRP air duct				
'180	Reliability Test of FRP air ducts for effluent Drop Structure	0%	0	12 0	22-Nov-19	05-Dec-19						₽	eliability Test of FRP	tir ducts for effluent D	rop Structur	e	
uent Lau								Ē				- I I I I I I I I I I I I I I I I I I I	5-Dec-19, Effluent Lau	nder			
100	Delivery of isolation device for on site prototype test	0%	15	6 0	09-Jul-19	15-Jul-19			livery	:	II: ; 1		prototype test				
'110	Installation of the Isolation Device for Effluent Drop Structure for On-site Prototype Test	0%	15	10 0	26-Aug-19	05-Sep-19			<b>•</b>				on Device for Effluent [	1 T N			÷
7120	Conduction of On-site Prototype Test of the Isolation Device for Effluent Drop Structure	0%	15	12 0	06-Sep-19	19-Sep-19				<b>-</b>	conductio	- I I I I	e Prototype Test of the	i i	- i - i	i i	
130	Full Scale Installation of Isolation Devices for Effluent Drop Structure	0%	0	38 5	09-Oct-19	21-Nov-19							Scale Installation of Is				
190	Performance test (smoke Test) of the isolation device for effluent drop structure	0%	0	12 0	22-Nov-19	05-Dec-19				_			erformance test (smol 5-Dec-19, CEPT FRP		device for	effluent dr	rop structure
<b>PT FRP c</b> 7140	overs Delivery of FRP Sliding Cover Sealant for On-site Prototype Test	0%	3	6 0	02-Sep-19	07-Sep-19			L	De	livery of		Cover Sealant for On-				
140	Installation of FRP Sliding Cover Sealant for On-site Prototype Test	0%	3	8 0	02-Sep-19 09-Sep-19	17-Sep-19							iding Cover Sealant fo		et		++-
150	Conduction of On-site Prototype Test of FRP Sliding Cover Sealant	0%	3	12 0	18-Sep-19	02-Oct-19					13 3 1		-site Prototype Test of				
160	Full Scale Installation of FRP Sliding Cover Sealants for Existing CEPT Tanks	0%	0	40 5	07-Oct-19	21-Nov-19				- 🗖			Scale Installation of FI			stina CEPT	T Tanks
200	Performance test (Smoke test) of the sealant for FRP sliding covers	0%	0	12 0	22-Nov-19	05-Dec-19							erformance test (Smol				
	he Works	v /0	0	12 0	22 100-13	00 000 19		ĻĮ		-				inter, or the obtained			
70	Section 2 Completion (665d)	0%	0	0 0		03-May-2					+						++
100	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*											
	Submission (AIP)		-						-		14	Oct-19, E&	M Design Submission	(AIP)			
60	Submission of AIP Design of Wet Chemical Scrubber System for DOU1, DOU2 and DOU5	0%	0	14 0	13-Aug-19	26-Aug-19			-	Subm	ission of /	IP Design o	of Wet Chemical Scrub	ber System for DOU1	, DOU2 and	DOU5	
70	Approval of AIP Design of Wet Chemical Scrubber System for DOU1, DOU2 and DOU5	0%	0	21 0	27-Aug-19	16-Sep-19			-	<b></b> .	Approval	f AIP Desig	n of Wet Chemical Sci	ubber System for DO	J1, DÓU2 a	and DOU5	
'80	Submission of AIP Design of the Polishing System for DOU4	0%	0	14 0	27-Aug-19	09-Sep-19			-1	Sı	ıbmission	of AIP Desi	gn of the Polishing Sys	tem for DOU4			
90	Approval of AIP Design of the Polishing System for DOU4	0%	0	21 0	10-Sep-19	30-Sep-19				9	Approv	al of AIP De	esign of the Polishing S	ystem for DOU4			
00	Submission of AIP Design of the Polishing System for DOU1R	0%	0	14 0	27-Aug-19	09-Sep-19			-1	ւ Տ	ıbmission	of AIP Desi	gn of the Polishing Sys	tem for DOU1R			
10	Approval of AIP Design of the Polishing System for DOU1R	0%	0	21 0	10-Sep-19	30-Sep-19				H	Appro	al of AIP De	esign of the Polishing	system for DOU1R			
20	Submission of AIP Design of NaOH Bulk Storage and Transfer Facilities	0%	23	14 0	10-Sep-19	23-Sep-19				4	Submiss	on of AIP D	esign of NaOH Bulk S	orage and Transfer F	acilities		
30	Approval of AIP Design of NaOH Bulk Storage and Transfer Facilities	0%	23	21 0	24-Sep-19	14-Oct-19				14	Ap	roval of All	P Design of NaOH Bull	Storage and Transfe	Facilities		
40	Submission of AIP Design of Power Supply and Distribution System for DOU Polishing Systems	0%	19	14 0	13-Aug-19	26-Aug-19			-	Subin	i\$sion of A	IP Design o	of Power Supply and D	stribution System for	DOU Polisł	ning Syster	ms
50	Approval of AIP Design of Power Supply and Distribution System for DOU Polishing Systems	0%	19	21 0	27-Aug-19	16-Sep-19			-				n of Power Supply and				1 I I
60	Submission of AIP Design for Upgrading and replacement of the existing local HMI touchscreen	0%	3	14 0	13-Aug-19	26-Aug-19			-1	i I - I	-ili		or Upgrading and repla	1 <b>1</b> i i'	·	i i	i i i
70	Approval of AIP Design for Upgrading and replacement of the existing local HMI touchscreen	0%	40	21 0	27-Aug-19	16-Sep-19			►[				n for Upgrading and re				
80	Submission of AIP Design of PLC & SCADA Systems for DOU Polishing Systems (including function	0%	3	14 0	27-Aug-19	09-Sep-19			►[	<b>1</b> \$			gn of PLC & SCADA S		- 1	1	17 1 1
90	Approval of AIP Design of PLC & SCADA Systems for DOU Polishing Systems (including functional	0%	3	21 0	10-Sep-19	30-Sep-19				╘┥══┋			esign of PLC & SCADA		-		
00	Submission of AIP Design of Building Services for DOU Polishing Systems, New Switch/MCC Roor	0%	3	14 0	27-Aug-19	09-Sep-19			-				gn of Building Service				
0	Approval of AIP Design of Building Services for DOU Polishing Systems, New Switch/MCC Rooms	0%	17	21 0	10-Sep-19	30-Sep-19					Appro	al of AlP De	esign of Building Servi	es for DOU Polishing	Systems, I	New Switc	h/MCC Rooms
20	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							esign of Fire Services	• •			
930	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					- H- 100		Design of Fire Service				- I I I
00	Submission of AIP Design fo power supply, cabling, earthing, lightning protection and interface with	0%	59	14 0	13-Aug-19	26-Aug-19					- i I - i - i - i - i - i - i - i - i -		o power supply, cablin				
010	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					11 11		n fo power supply, cab		g protection	and interf	face with ex'tg ins
090	Submission of AIP design of networks integration with existing DCS	0%	59	14 0	13-Aug-19	26-Aug-19							f networks integration				
00	Approval of AIP Design of network integration with existing DCS	0%	59	21 0	27-Aug-19	16-Sep-19			· <mark></mark>		- h h a a a a i all		n of network integratio				
10	Submission of AIP design of Redundant fiber network for new SCADA	0%	59	14 0	13-Aug-19	26-Aug-19			-		- 1 - 1 - 1 - 1		f Redundant fiber netw	1 1 I I			
120	Approval of AIP design of Redundant fiber networks for new SCADA	0%	59	21 0	27-Aug-19	16-Sep-19							n of Redundant fiber no				
150	Submission of AIP design for upgrading works and modification of ex'tg data, event & Historain serv	0%	59	14 0	13-Aug-19	26-Aug-19		[	-				or upgrading works an				
80	Approval of AIP design for upgrading works and modification of ex'tg data, event & Historain server	0%	59	21 0	27-Aug-19	16-Sep-19			-1		Approval		n for upgrading works		tg data, eve	ent & Histor	rain server in DØ
	Submission (DDA) Submission of DDADesign of Wet Chemical Scrubbers Filters for DOU1, DOU2 and DOU5	0%	0	14 0	17-Sep-19	30-Sep-19					Submi		09-Dec-19, E&M Desig A Design of Wet Chem		for DOUL		
70 80	Review and Comment on DDA Design of Wet Chemical Schubbers Filters for DOU1, DOU2 and DOU3 Review and Comment on DDA Design of Wet Chemical Scrubbers Filters for DOU1, DOU2 and DO	0%	0	21 0	01-Oct-19								Comment on DDA Des				
83	Re-submission of DDA Design of Wet Chemical Scrubbers Filters for DOU1, DOU2 and DOU5	0%	0	7 0	22-Oct-19	21-Oct-19 28-Oct-19							sion of DDA Design of				1 1 1 1
85	Approval of DDA Design of Wet Chemical Scrubbers Filters for DOU1, DOU2 and DOU5	0%	0	14 0	22-Oct-19 29-Oct-19	11-Nov-19						- i	al of DDA Design of W	1 <b>1</b> i i	i i	- i - i	i i i
90	Submission of DDA Design of the Polishing System for DOU4	0%	21	14 0	01-Oct-19	14-Oct-19							DDA Design of the Po			5001, 50	
200	Review and Comment on DDA Design of the Polishing System for DOU4	0%	21	21 0	15-Oct-19	04-Nov-19			• • • • • • • •	÷			Ind Comment on DDAI			r DOI 14	++
10	Re-submission of DDA Design of the Polishing System for DOU4	0%	21	7 0	05-Nov-19								mission of DDA Desig				
60	Approval of DDA Design of the Polishing System for DOU4	0%	21	14 0	12-Nov-19								proval of DDA Design c				
940	Submission of DDA Design of the Polishing System for DOU1R	0%	0	14 0	01-Oct-19	14-Oct-19							DDA Design of the Po				
950	Review and Comment on DDA Design of the Polishing System for DOU1R	0%	0	21 0	15-Oct-19	04-Nov-19							Ind Comment on DDAI			r DOU1R	
960	Re-submission of DDA Design of the Polishing System for DOU1R	0%	0	7 0	05-Nov-19				••••	<u>†</u> † <b> </b> -			mission of DDADesig	h <b>]</b> h			+
970	Approval of DDA Design of the Polishing System for DOU1R	0%	0	14 0	12-Nov-19					1	1		roval of DDA Design c				
980	Submission of DDA Design of the NaOH bulk storage and transfer Facilities	0%	23	14 0	15-Oct-19	28-Oct-19							n of DDA Design of the				
990	Review and Comment on DDA Design of the NaOH bulk storage and transfer Facilities	0%	23	21 0	29-Oct-19	18-Nov-19							w and Comment on D				ansfer Facilities
000	Re-submission of DDA Design of the NaOH bulk storage and transfer Facilities	0%	23	7 0	19-Nov-19	25-Nov-19					<b> </b>		submission of DDA De				
010	Approval of DDA Design of the NaOH bulk storage and transfer Facilities	0%	23	14 0	26-Nov-19			†F		:† <b> </b> -	1		Approval of DDA Desig				
)20	Submission of DDA Design of Power Supply and Distribution System for DOU Polishing Systems	0%	19	14 0	17-Sep-19	30-Sep-19				-	Submi		A Design of Power Su		-		
)30	Review and Comment on DDA Design of Power Supply and Distribution System for DOU Polishing	0%	19	21 0	01-Oct-19	21-Oct-19						• P	Comment on DDA Des	10 C N 1 1 1	· · · ·		1 2 2 1 1
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Critical Remaining Work

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designs												
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Aug-19			Rev.									

vity ID	Activity Name	Activity % Total Complete	⊦loat	Original Time risk Duration allowance	Start	Finish	201	9	Q3			Q4		Q1	21 Q2	Q3	
A6040	Re-submission of DDA Design of Power Supply and Distribution System for DOU Polishing System	0%	19	7 0	22-Oct-19	28-Oct-19		Π			<b>-</b>		omission			ion System for DOU Polishir	ıg Şys
A6050	Approval of DDA Design of Power Supply and Distribution System for DOU Polishing Systems	0%	19	14 0	29-Oct-19	11-Nov-19					-		2			System for DOU Polishing	Syster
A6060	Submission of DDA Design of Upgrading and replacement of the existing local HMI touchscreen	0%	40	14 0	17-Sep-19	30-Sep-19				-	- 1		p			ting local HMI touchscreen	
A6070	Review and Comment on DDA Design of Upgrading and replacement of the existing local HMI touch	0%	40	21 0	01-Oct-19	21-Oct-19							6 ;			ement of the existing local HI	
A6080	Re-submission of DDA Design of Upgrading and Upgrading and replacement of the existing local HI	0%	40	7 0	22-Oct-19	28-Oct-19							R !			hd replacement of the existin	-
A6090	Approval of DDA Design of Upgrading and Upgrading and replacement of the existing local HMI tour	0%	40 3	14 0	29-Oct-19	11-Nov-19							fi i		Ing and Upgrading and DA Systems for DOU I	replacement of the existing l	cal H
A6100 A6110	Submission of DDA Design of PLC & SCADA Systems for DOU Polishing Systems Review and Comment on DDA Design of PLC & SCADA Systems for DOU Polishing Systems	0%	45	14 0 21 0	01-Oct-19 15-Oct-19	14-Oct-19 04-Nov-19			<mark> </mark>				6			tems for DOU Polishing Systems	tome
A6120	Re-submission of DDA Design of PLC & SCADA Systems for DOU Polishing Systems	0%	45	7 0	05-Nov-19	11-Nov-19					5		ji i		<b>K</b> i i <b>f</b>	for DOU Polishing Systems	i .
A6130	Approval of DDA Design of PLC & SCADA Systems for DOU Polishing Systems	0%	45	14 0	12-Nov-19	25-Nov-19							6 6			DOU Polishing Systems	
A6140	Submission of DDA Design of Building Services for DOU Polishing Systems, New MCC Rooms and	0%	3	14 0	15-Oct-19	28-Oct-19					L-	Supm	ission of	DDA Design of Building	Services for DOU Pol	shing Systems, New MCC R	ooms
A6150	Review and Comment on DDA Design of Building Services for DOU Polishing Systems, New MCC	0%	3	21 0	29-Oct-19	18-Nov-19					- <b>-</b>					es for DOU Polishing System	
A6160	Re-submission of DDA Design of Building Services for DOU Polishing Systems, New MCC Rooms	0%	3	7 0	19-Nov-19	25-Nov-19						L.	Re-sub	mission of DDA Design	of Building Services for	DOU Polishing Systems, N	ew MC
A6170	Approval of DDA Design of Building Services for DOU Polishing Systems, New MCC Rooms and N	0%	3	14 0	26-Nov-19	09-Dec-19						►(				OU Polishing Systems, New	
A8050	Submission of DDA Design of power supply, cabling, earthing, lightning protection and interface with	0%	59	14 0	17-Sep-19	30-Sep-19					-		1: 1:			ng protection and interface v	
A8060	Review & comment of DDA Design of power supply, cabling, earthing, lightning protection and interf	0%	59	21 0	01-Oct-19	21-Oct-19					╡┻┛╸╵		ji i	i i i i	A 1977 1 7 1	rthing, lightning protection at	
A8070 A8080	Re-submission of DDA Design of power supply, cabling, earthing, lightning protection and interface Approval of DDA Design of power supply, cabling, earthing, lightning protection and interface with e	0%	59 59	7 0 14 0	22-Oct-19 29-Oct-19	28-Oct-19 11-Nov-19							6			, lightning protection and int	
A8280	Submission of DDA Design of networks integration with the existing DCS	0%	59	14 0	17-Sep-19	30-Sep-19					1	- <b>L</b> I - 1	( I	1 7 10 1	ation with the existing		-
A8290	Review & comment of DDA Design of networks integration with the existing DCS	0%	59	21 0	01-Oct-19	21-Oct-19					-		E :		tworks integration with		
A8300	Re-submission of DDA Design of networks integration with the existing DCS	0%	59	7 0	22-Oct-19	28-Oct-19					- <b>-</b>	Re-su	omission	n of DDA Design of netv	orks integration with th	e existing DCS	
A8310	Approval of DDA Design of networks integration with the existing DCS	0%	59	14 0	29-Oct-19	11-Nov-19						📕 Ap	proval o	DDA Design of networ	ks integration with the e	xisting DCS	
A8320	Submission of DDA Design of redundant fiber networks for new SCADA	0%	59	14 0	17-Sep-19	30-Sep-19				-	-		. i	с , , , , , , , , , , , , , , , , , , ,	networks for new SCA		
A8330	Review & comment of DDA Design of redundant fiber networks for new SCADA	0%	59	21 0	01-Oct-19	21-Oct-19							6 6		dundant fiber networks		
A8340	Re-submission of DDA Design of redundant fiber networks for new SCADA	0%	59	7 0	22-Oct-19	28-Oct-19							P 1		ndant fiber networks fo ant fiber networks for n		
A8350 A8360	Approval of DDA Design of redundant fiber networks for new SCADA	0%	59 59	14 0	29-Oct-19	11-Nov-19						- L - '	i i		i i	ew SCADA x'to data, event & Historain s	orvori
A8360 A8370	Submission of DDA Design of upgrading works and modification of ex'tg data, event & Historain ser Review & comment of DDA Design of upgrading works and modification of ex'tg data, event & Histor	0%	59 59	14 0 21 0	17-Sep-19 01-Oct-19	30-Sep-19 21-Oct-19							P !	0 10 10		lification of ex'tg data, event	!
A8380	Re-submission of DDA Design of upgrading works and modification of ex'tg data, event & Historain	0%	59	7 0	22-Oct-19	28-Oct-19							P 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		cation of exitg data, event & I	
A8390	Approval of DDA Design of upgrading works and modification of ex'tg data, event & Historain server	0%	59	14 0	29-Oct-19	11-Nov-19						🗖 Ap	proval o	DDA Design of upgrad	ing works and modifica	tion of ex'tg data, event & His	torain
Civil and G	eotechnical Design Submission (DDA)												E :		Geotechnical Design		
A7880	Submission of DDA Geotechnical design for piling works for DOU1R and 4	0%	0	7 0	01-Oct-19	07-Oct-19	[.			<b>4</b>	📕 Subi		h .	, i, Y	r piling works far DOU		
A7890	Review and Comment on DDA Geotechnical design for piling works for DOU1R and 4	0%	0	21 0	08-Oct-19	28-Oct-19							10 i			works for DOUIR and 4	
A7900 A7910	Re-submission of DDA Geotechnical design for piling works for DOU1R and 4	0%	0	7 0	29-Oct-19 05-Nov-19	04-Nov-19 11-Nov-19									d design for piling work		
A7910 A7920	Approval of DDA Geotechnical design for piling works for DOU1R and 4 Submission of DDA structural design for RC works of DOU1R and 4	0%	39	14 0	12-Nov-19	25-Nov-19						⊐ ^⊦ ►□	6 i	i i i	design for RC works of		
A7930	Review and Comment on DDA structural design for RC works for DOU1R and 4	0%	39	21 0	26-Nov-19	16-Dec-19						-	E :	1 12 1		or RC works for, DOU1R an	d 4
A7940	Re-submission of DDA structural design for RC works for DOU1R and 4	0%	39	10 0	17-Dec-19	26-Dec-19	1							Re-submission of DDA	structural design for R	C works for DOU1R and 4	
A7950	Approval of DDA structural design for RC works for DOU1R and 4	0%	39	10 0	27-Dec-19	05-Jan-20								Դեսցմանակություն է է է		orks for DOU1R and 4	
A7960	Submission of DDA for ABWF design for DOU1R and 4	0%	184	14 0	12-Nov-19	25-Nov-19						-1	li i		design for DOU1R and	i i i	
A7970	Review and Comment on DDA ABWF design for DOU1R and 4	0%	184	21 0	26-Nov-19	16-Dec-19						-	Ľ — Ľ		DDA ABWF design for ABWF design for DO		
A7980 A7990	Re-submission of DDA ABWF design for DOU1R and 4 Approval of DDAABWF design for DOU1R and 4	0%	184 184	10 0 10 0	17-Dec-19 27-Dec-19	26-Dec-19			· · · · ·		÷				WF design for DOU1R		
Procuemen	t and Delivery of Equipment/ Material for Section 2 of Works	078	104	10 0	21-060-13	05-0411-20										ent and Delivery of Equipme	ent/¦Ma
A1320	Procurement of Wet Chemical Scrubber Systems for DOU1, DOU2 and DOU5	0%	0	90 0	12-Nov-19	09-Feb-20						-				ubber Systems for DOU1, DO	
A1330	FAT of Wet Chemical Scrubber Systems for DOU1, DOU2 and DOU5	0%	0	14 0	10-Feb-20	23-Feb-20										Systems for DOU1, DOU2	
A1350	Delivery of Wet Chemical Scrubber Systems for DOU1, DOU2 and DOU5	0%	0	14 0	24-Feb-20	08-Mar-20	ļļ								•	crubber Systems for DOU1,	DQU
A1360	Procurement of DOU4 Polishing System	0%	21	76 0	26-Nov-19	09-Feb-20	-					-			nt of DOU4 Polishing S DOU4 Polishing Syster		
A1380 A1500	FAT of DOU4 Polishing System Delivery of DOU4 Polishing System	0%	21 21	14 0 14 0	10-Feb-20 24-Feb-20	23-Feb-20 08-Mar-20	-								very of DOU4 Polishing	i i i i	
A6180	Procurement of DOU1R Polishing System	0%	0	76 0	26-Nov-19	09-Feb-20						-		and the second	nt of DOU1R Palishing		
A6190	FAT of DOU1R Polishing System	0%	0	14 0	10-Feb-20	23-Feb-20									DOU1R Polishing Syste		
A6200	Delivery of DOU1R Polishing System	0%	0	14 0	24-Feb-20	08-Mar-20	1							Del	very of DOU1R Polishi	hg System	
A6210	Procurement of NaOH Bulk Storage Tank and Transfer Facilities	0%	23	76 0	10-Dec-19	23-Feb-20							-	Produre	ment of NaOH Bulk St	rage Tank and Transfer Faci	litiės
A6220	FAT of NaOH Bulk Storage Tank and Transfer Facilities	0%	23	14 0	24-Feb-20	08-Mar-20										Tank and Transfer Facilities	
A6230	Delivery of NaOH Bulk Storage Tank and Transfer Facilities	0%	23	14 0	09-Mar-20	22-Mar-20									Ang tanàn ang taona kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaomini	Storage Tank and Transfer F	- i -
A6240	Procurement of Power Supply and Distribution System for DOU Polishing Systems	0%	19 19	90 0	12-Nov-19	09-Feb-20 10-Mar-20										Distribution System for DOL	
A6250 A6260	FAT of Power Supply and Distribution System for DOU Polishing Systems Delivery of Power Supply and Distribution System for DOU Polishing Systems	0%	19	30 0 14 0	10-Feb-20 11-Mar-20	24-Mar-20								i ;i <mark> </mark> ;;		ly and Distribution System f	
A6270	Procurement of packaged offer for Upgrading and Replacement of the existing local HMI touchscree	0%	40	120 0	12-Nov-19	10-Mar-20						-				offer for Upgrading and Repla	
A6290	Delivery of packaged offer for Upgrading and Replacement of the existing local HMI touchscreen	0%	40	14 0	11-Mar-20	24-Mar-20										ffer for Upgrading and Repla	
A6300	Procurement of PLC and SCADA Systems for DOU Polishing Systems	0%	45	90 0	26-Nov-19	23-Feb-20	1					┡╾╢		Procure	ment of PLC and SCAI	A Systems for DOU Polishin	g Sys
A6310	FAT of PLC and SCADA Systems for DOU Polishing Systems	0%	45	30 0	24-Feb-20	24-Mar-20									2.4	Systems for DOU Polishing	
A6320	Delivery of hardware of PLC and SCADA Systems for DOU Polishing Systems	0%	45	14 0	25-Mar-20	07-Apr-20								- 1 - 1 - <b>1</b> - 1 - 1	HP 1 1 1	e of PLC and SCADA System	
A6330	Procurement of Building Services Equipment for DOU Polishing Systems, New Switch/MCC Rooms	0%	3	90 0	10-Dec-19	08-Mar-20										rvices Equipment for DOU P	
A6340	Delivery of Building Services Equipment for DOU Polishing Systems, New Switch/MCC Rooms and Procurement of Fire Services Equipment for DOU Polishing Systems, New MCC Rooms and NaOH	0%	3	30 0	09-Mar-20	07-Apr-20								- i ti <b>k</b> li		Services Equipment for DO	
A6350 A7080	Procurement of Fire Services Equipment for DOU Polishing Systems, New MCC Rooms and NaOH Delivery of Fire Services Equipment for DOU Polishing Systems, New MCC Rooms and NaOH Bu	0%	28 28	90 0 30 0	10-Dec-19 09-Mar-20	08-Mar-20 07-Apr-20	<b>∤ </b>	+ +	[ <mark> </mark>					Pro	Delivery of Fire Servic	es Equipment for DOU Polis rvices Equipment for DOU P	nių S oliebi
A7080	Convery of the Services Equipment for DOO Fonshing systems, New MOC Rooms and NaOH Bu	U 70	28	30 0	03-1111-20	07-Apr-20											-131111
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A7210	Installation of DOU1 wet scrubber and air duct connection for DOU1	0%	0	175 14	09-Mar-20	08-Oct-20										· · · · ·	nstalla
A7212	Installation of Power supply and disturbution system for DOU polishing systems	0%	16	130 14	25-Mar-20	-	ļļ.	<u> </u>			ļ				· · · · · · · · · · · · · · · · · · ·	Installation	i of Po
A7222	Upgrading and Replacement of the existing local HMI touchscreen	0%	56	90 14	25-Mar-20	14-Jul-20					1		: :			Upgrading and Replace	əment
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	04         01         02         03           Ind SCADA.sys 6m for DOU polishing systems Installation of Building Sevice for DOU polishing system, MCC room and NaOH bulk stora wepoement for we DOU polishing stage         Installation of File services for DOU polishing system, MCC room and NaOH bulk stora wepoement for we DOU well structure set to building services for DOU polishing system, MCC room and file face test to: PLC s           Image: Performance Test of the DOU well structure for DOU polishing system, of DOU Performance Test of the DOU well structure for DOU polishing system, MCC room and NaOH bulk stora we phint so port, end to end and structoric test or upgrading and replacement of existing Performance test of fire service for DOU polishing system, MCC room and N Performance test of fire service for DOU polishing system, MCC room and N Performance test of fire service for DOU polishing system, MCC room and N Performance test of fire service for DOU polishing system, MCC room and N Performance test of provide the polishing system is the polishing system, MCC room and N Performance test of polishing system of DOU1 Performance test of polishing systems and SCADA.system for DOU polishing systems of SCADA.system for DOU polishing systems of SCADA.system for DOU polishing systems of SCADA.system for DOU polishing systems and SCADA.system for DOU polishing systems and SCADA.system for DOU polishing system for DOU polishing system. MCC room and SCADA.system for DOU polishing stage performance test of the local system for DOU polishing system. MCC room and SCADA.system for DOU polishing stage and therefore the optical point fire service for DOU polishing system. MCC room and performance test of the local system for DOU polishing system. MCC room and SCADA.system for DOU polishing system for DOU polishing system. MCC room and SCADA.system for DOU polishing system for DOU polishing systems. Performanc							
	04         01         02         03           ind SCADA system for DOU polishing systems installation of File services for DOU polishing system, MCC room and NaOH bulk stora wedpoement for web DOU you straining system, MCC room and NaOH bulk stora wedpoement for web DOU you straining system. MCC room and fiterface test to: PLC s are point to per in a do e di and fiturosito tester you grading and replacement of existing performance Test of the DOU in web straining system, MCC room and fiterface test bulk yes of NaOH bulk Storage and transfer system           Image: Performance Test of the oblighting system of DOU in the performance test of high service for DOU polishing system, MCC Performance test of fire service for DOU polishing system, MCC room and N Performance test of fire service for DOU polishing system, MCC room and N Performance test of fire service for DOU polishing system, MCC room and N Performance test of fire service for DOU polishing system, MCC room and N Performance test of fire service for DOU polishing system, MCC room and N Performance test of fire service for DOU polishing systems of Cable into esting new underground cable rench ducts on fire services for DOU polishing systems on SCAD system for DOU polishing system, MCC room and NaOH bulk st evelopement for new DOU polishing system, MCC room and NaOH bulk st evelopement for new DOU polishing system. MCC room and NaOH bulk st evelopement for new DOU polishing system for DOU polishing system, MCC room and set of the service for DOU polishing system, MCC room and performance fest of the DOU polishing system, MCC room and performance field of Cable into esting revice for DOU polishing system, MCC room and performance field of the service for DOU polishing system, MCC room and performance field of the service for DOU polish							
	04         01         02         03           and SCADA system to DOU polishing systems installation of Duilding Service for DOU polishing system, MCC room nest/lation of Fe services for DOU polishing system, MCC room and NaOH bulk stora set operation of the operation of the services for DOU polishing system, MCC room and first-face test for PCC s regulation of ro-DOU polishing stage regulation of ro-DOU polishing systems regulation of ro-DOU polishing system of DOU Performance Test of the DOU was terribles in the service for DOU polishing system, MCC room and NaOH bulk stora set operation polishing and transfer system in the polishing system of DOU Performance test of huiding service for DOU polishing system, MC Performance test of huiding service for DOU polishing system, MCC room and Na Performance test of huiding service for DOU polishing system, MCC room and Na Performance test of huiding service for DOU polishing system, MCC room and Na Performance test of huiding service for DOU polishing system, MCC room and ScADA system for DOU polishing systems - ScADA system for DOU polishing system for DOU polishing systems and scADA system for DOU polishing system. MCC room and ScADA system for DOU polishing system, MCC room and ScADA system for DOU polishing system. MCC room - Performance test of DOU polishing system, MCC room - Statiation of the service for DOU polishing system, MCC room - Statiation of the count of the DOU polishing system. - ScADA system for DOU polishing signe - ScADA system for DOU polishing signe - ScADA system for DOU polishing system for DOU polishing system. - ScADA system for DOU polishing signe - ScADA system for DOU polishing system for DOU polishing system. - ScADA system for DOU polishing system for DOU polishing system. - ScADA system for DOU polishing system for DOU polishing system. - Realization of the service tor DOU polishing system. - Realisating serupress to the sisting free undeground cable fench duc							
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	O4         O1         O2         O3           and SCADA sys bm for DOU polishing systems installation of DuUlding Service to COU polishing system, MCC room and NaOH bulk stora development for env OULpolishing stage.           installation of File services. for DOU polishing systems installation of re-works for the SCADA         Common Section 1000000000000000000000000000000000000							
	Ot         Ot         O2         O3           and SCADA system for DOU polishing systems installation of Duilding Service to DOU polishing systems. McC room and NaOH bulk stora developement to new DOU polishing stage installation of read DUI web structures web scaDA read/action of new DOU polishing stage installation of read/outpolishing stage installation of read/outpolishing stage installation of read/outpolishing stage installation of read/outpolishing systems of DOU in Performance Test of the DOU web structures web ingrading and replacement of existing point to point. Individual structure struct ingrading and replacement of existing point point in the original structure struct ingrading and replacement of existing point point point and point and structure structure is for DOU polishing system. MCC room and N Performance test of trig service for DOU polishing system. MCC room and N Performance test of trig service for DOU polishing system. MCC room of Cable hit outping new underground cable rench duits movel from WSD and cable point outping system for DOU in the splatiation of a discustory setting room control to DOU in the splatiation of DOU polishing systems and SCADA system for DOU polishing systems and SCADA system for DOU polishing system. MCC room and NaOH UIP polishing URL and air duc domection for DOU in the splatiation of Existencies for DOU polishing systems. And SCADA system for DOU polishing systems. And SCADA system for DOU polishing system. MCC room and NAOH bulk str development to new DOU polishing system. MCC room and NAOH bulk str development to new DOU polishing system. MCC room and NAOH bulk str development to new DOU polishing system. MCC room and SCADA system for DOU polishing system. MCC room and installation of Ruling Service to DOU polishing system. MCC room and SCADA system for DOU polishing system for DOU polishing system. MCC room and and SCADA system for DOU polishing sisterind revu underground cable renec							
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approval from WSD								
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lation of Power supp	y and disturbution syste	em for DOU polishing syst	ems					
PLC and SCADA sys	em for DOU polishing s	vstems						
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are developement fo	new DOU polishing sta	age						
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Perf	rmance Test of the DOI	J1R poli <mark>s</mark> hing unit						
	NoOH bulk	Out and transfor system						
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	Performance test of	building service for DOU	polishing system, MC					
Lectron P	erformance test of fire s	ervice for DOU polishing s	system, MCC room and					
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■ 02-Oct-20, Under	round Drainage and ca	hling works						
			d cable trench/ ducts					
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approval from WSD								
Construction of ur	derground watermain fo	r ÞOU2						
	1 I I I I I I I I I I I I I I I I I I I							
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g and Replacement	f the existing local HMI	touchscreen						
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Installation of Fi	e services for DOU pol	ishing s <mark>y</mark> stem, MOC room	and NaOH bulk stora					
are developement fo	new DOU polishing sta	aqé						
Performance	Test of chemical scrubb	er and a r duct for DOU2						
Hardware	, point/end to point/end,	interlock, simulation and i	nterface test for PLC a					
of 7 Date	Revision	Checked	Approved					
19-Jul-19	Rev. 0							
20 / ldg 10								
	Coct-20, Under round Drainage and cabling works n of Cable into existing/ new underground cable rench/ducts T2Nov 20; E&M installation I2Nov 20; E&M instal							

17010		Complete			allowance			Q			Q4		)1		4	Q2		Q	3	
A7610	Reliability test of the polishing system of DOU2	0%	9	30	0	20-Nov-20	19-Dec-20			<u> </u>									<u></u>	╈
	Reliability test of NaOH bulk Storage and transfer system	0%	9	30		21-Oct-20	19-Nov-20													
7630	Performance test of building service for DOU polishing system, MCC room and NaOH bulk storage	0%	1	45	5	13-Nov-20	27-Dec-20													
47640	Performance test of fire service for DOU polishing system, MCC room and NaOH bulk storage com	0%	36	45	5	09-Oct-20	22-Nov-20													-
U 4 oundation	works							 				23-	Jan 20	), Fou	Indation	works				
	General Site Clearance and underground uliities detection/ idenification	0%	36	6	0	27-Jul-19	02-Aug-19				e and undergr									
560	Installation and initial survey of building, ground and utilities settlement	0%	36	6	0	03-Aug-19	09-Aug-19	L <del>aj</del> _	Installation	and initia	I survey of bu	ilding, groun	id and	utilitie	es settle	ment				
6575	Pre-drilling for H-pile foundation (5Nos, 2rigs)	0%	36	12	1	10-Aug-19	23-Aug-19	L=	Pre-dri		pile foundatio									
6576	Engineer's Review of foundaiton design, rockhead coutour and founding level of H-piles	0%	36	28	0	24-Aug-19	25-Sep-19	L	-		's Review of		əsign,	ro¢kh	ead cou	tour and fo	ounding le	evel of H	pilės	
6578	Mobilzation of piling rigs	0%	36	3		26-Sep-19	28-Sep-19		L=[	Mobilza	tion of piling r									
	Prebored H-pile (P1-7, 7Nos)	0%	0	40		12-Nov-19	30-Dec-19					Prebored	16	1	, 7Nos)					
6590	Pile load test	0%	0		0	13-Jan-20	18-Jan-20					1 <b>- 1</b> - 1 - 1	oadite							
6600 <b>C works</b>	Post Drilling for Prebored H-piles	0%	0	4	0	20-Jan-20	23-Jan-20					Pos	t Driii	ing for	Prebore	ed H-piles	s May-20, R	C works		
	Open Excavation and for pile cap construction	0%	0	12	2	24-Jan-20	06-Feb-20	 					Open	Excav	ation ar	nd for pile				
6637	Pile head preparation and weld test	0%	0	9	2	07-Feb-20	17-Feb-20					₩ <b>₩</b>	<b>P</b> ile	e head	prepar	ation and v	weld test			
6639	Formwork and steel fixing of pile cap	0%	0	18	3	18-Feb-20	12-Mar-20					5		Fo	rmwork	and steel t	fixing of pi			
6640	Concreting of pile cap	0%	0	2	0	13-Mar-20	14-Mar-20						- 1-			g of pile ca				
6650	Concreting of MCC room wall and roof slab	0%	61	24	3	16-Mar-20	15-Apr-20	 						-		oncreting o				
	Internal finishes of MCC room and Builder works	0%	61	18	3	24-Apr-20	15-May-20								<b>-</b> ►	Inter	nal finish	ies of MC	Croom	
	d Drainage and cabling works	00/	01	00	2	16 May: 00	01 Sec 00												1 ~	onstri
630 3160	Construction and installation of Cable into existing/ new underground cable trench/ ducts Statutory submission and approval from WSD	0%	61 36	90 210		16-May-20 02-Oct-19*	01-Sep-20 15-Jun-20										Statu	itory subm		
3160 3170	Construction of underground watermain for DOU2	0%	36		14	16-Jun-20	02-Oct-20						1			1	-		1	
	tion	0.10	00	50			32 00(- <u>2</u> 0	 							<u> </u>					
700	Installation of the DOU4 polishing Unit and air duct connection for DOU4	0%	0	162	14	30-Mar-20	14-Oct-20							-	<b></b>			_	di d	
400	Installation of Power supply and disturbution system for DOU polishing systems	0%	20	130	14	25-Mar-20	31-Aug-20							-	ļi —		<u> </u>	<u> </u>		stali
420	Installation of PLC and SCADA system for DOU polishing systems	0%	49	90	14	10-Apr-20	27-Jul-20								-		<u> </u>	Inst	tallation o	of
430	Installation of Building Service for DOU polishing system, MCC room	0%	1	180		10-Apr-20	12-Nov-20	 				ļļ			*					
	Installation of Fire services for DOU polishing system, MCC room and NaOH bulk storage compou	0%	31	150		10-Apr-20	08-Oct-20													
420	Software development for new DOU polishing stage	0%	44	120		10-Apr-20	01-Sep-20													oftwa
	Installation of redundunt fiber networks for new SCADA comissioning	0%	44	30	14	02-Sep-20	08-Oct-20													
sting and 6710	Performance Test of the DOU4 polishing Unit	0%	0	45	5	15-Oct-20	28-Nov-20													
	Hardware, point/end to point/end, interlock, simulation and interface test for PLC and SCADA for DC	0%	24	65		01-Sep-20	04-Nov-20	 				+			· · · · · · · · · · · · · · · · · · ·				4	· i:
	Reliability test of the polishing system of DOU4	0%	0	30	0	29-Nov-20	28-Dec-20													
7680	Reliability test of NaOH bulk Storage and transfer system	0%	9	30	0	21-Oct-20	19-Nov-20													
7690	Performance test of building service for DOU polishing system, MCC room and NaOH bulk storage	0%	1	45	5	13-Nov-20	27-Dec-20													
7700	Performance test of fire service for DOU polishing system, MCC room and NaOH bulk storage com	0%	36	45	5	09-Oct-20	22-Nov-20	 												
U 5 undation	works																			
works fo		201	05	0		10.01 10	10.11.10				-					RC works	s for DOU	J5b		
	Open Excavation and for pile cap construction Pile head preparation and weld test	0%	25 25	6 9		12-Nov-19					► Open Ex					uction				
	Formwork and steel fixing of pile cap	0%	25 25	9		19-Nov-19	28-Nov-19	 		++		Formwork ar				d can				
7015	Concreting of pile cap	0%	25 25	2		29-Nov-19 20-Dec-19	19-Dec-19 21-Dec-19								g or prie	rcap				
7020	Concreting of MCC room wall and roof slab	0%	25	30		23-Dec-19	29-Jan-20					Concreting			MCC rc	om wall ar	nd roof sl	ab		
	Internal finishes of MCC room and Builder works	0%	25	18		15-Feb-20	10-Mar-20							Inte	ernal fini	ishes of M	ICC room	and Built	Jer work	s
dergroun	d Drainage and cabling works							 										-		
	Construction and installation of Cable into existing/ new underground cable trench/ ducts	0%	144	90		11-Mar-20	29-Jun-20						-	-			ų	onstructio		
3190	Statutory submission and approval from WSD	0%	36	210		02-Oct-19*	15-Jun-20									i i r	Statut	itory subm	ission a	and
	Construction of underground watermain for DOU2	0%	36	90	14	16-Jun-20	02-Oct-20									4				<u>ار</u>
	tion Installation of the DOU5 polishing system and air duct connection for DOU1	0%	6	175	14	09-Mar-20	08-Oct-20							T.					TE_	T
	Installation of Power supply and disturbution system for DOU polishing systems	0%	13	130		25-Mar-20	31-Aug-20	 		++					·····	i		;	Ins	stali
7365	Installation of PLC and SCADA system for DOU polishing systems	0%	42		14	10-Apr-20	27-Jul-20							_	-	<u> </u>		Ins'	tallation	
7375	Installation of Building Service for DOU polishing system, MCC room	0%	1	180		10-Apr-20	12-Nov-20			1					+				11	
7385	Installation of Fire services for DOU polishing system, MCC room and NaOH bulk storage compou	0%	31	150		10-Apr-20	08-Oct-20			1					-					
3440	Software developement for new DOU polishing stage	0%	36	120	14	10-Apr-20	01-Sep-20								<b>└</b> ⊷	<b></b>			<mark>i s</mark> ₀	oftwe
450	Installation of redundunt fiber networks for new SCADA	0%	36	30	14	02-Sep-20	08-Oct-20	 		T		T T			1				1	Т,
	commissioning				-	00.5	10.11												<del>                                     </del>	-
	Performance Test of the DOU5 polishing system	0%	6	30		09-Oct-20	12-Nov-20													
	Hardware, point/end to point/end, interlock, simulation and interface test for PLC and SCADA for DC	0%	15 0	65		01-Sep-20	04-Nov-20												Ţ <u></u>	
	Reliability test of the polishing system of DOU5 Reliability test of NaOH bulk Storage and transfer system	0%	0	39 30		20-Nov-20 21-Oct-20	28-Dec-20 19-Nov-20	 		÷		·			H	·	·			
740	Performance test of building service for DOU polishing system, MCC room and NaOH bulk storage	0%	1	30 45		13-Nov-20	27-Dec-20													
750	Performance test of building service for DOU polishing system, MCC room and NaOH bulk storage com	0%	36	45		09-Oct-20														
	orage compound	3,0		.5		1				-					<u>+</u>	<del></del>			<del>- </del>	-
works				_	-	07.1		 			emolition of e	Matic - C		06-N	Лаг-20, Г	RC works				
	Demolition of existing Storage compound	0%	0	50		27-Aug-19	24-Oct-19				emolition of e Excavation					bd				
	Excavation of NaOH bulk storage compound	0%	0	12		25-Oct-19	07-Nov-19			i i		yout plate lo		-	11.1					
	Carryout plate load test for foundation Review design by Project Manager Respresentative	0%	0	24 28		08-Nov-19 06-Dec-19	05-Dec-19 10-Jan-20				Carl	1 · · ·			11 1	on Manager R	Respreser	ntative		
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Critical Remaining Work

First Programme

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Cons	truction	and ins	allat	on	of Cable	into e	kisting/ r	iew ur	dergroun	d cable	rench/ c	lucts	
sion and	approv	al from	WSD										
i.	Cons	truction	of ur	der	ground	waterm	ain for E	OU2					
		itttt.	<b>.</b>		E&M in								
ļ.	lr	stallatio	n of t	ne [	DOU4 p	olishing	Unit ar	d air	duct conn	ection fo	r DOU4		
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works													
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sion and	approv	al from	wsd										
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ivity ID	Activity Name	Activity %	Total Float			Start	Finish	201	9				2020			2021	
		Complete		Duratior	allowance				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A7270	RC works for NaOH bulk storage compound	0%	0	45	5 5	11-Jan-20	06-Mar-20				RC	works for NaOH bulk					
E&M insta	allation													95-Sep-20, E&M insta	allation		
A7280	Installation NaOH storage tanks and associated transfer pump	0%	0	120	20	15-Apr-20	05-Sep-20							nstallation NaOH s	orage tanks and associated trans	fer pump	
Testing a	nd Commissioning													<b></b> 9	9-Nov-20, Testing and Commissi	oning	
A7390	Performance test of the NaOH bulk storage compound and transfer system	0%	0	75	5 15	06-Sep-20	19-Nov-20						<b></b>	P(	erformance test of the NaOH bul	< storage compound and	d transfer syste
Statutary I	nspection by FSD														<b>V</b>	💙 03-May-21, Sta	tutary Inspectio
A7770	Submission of Application for FS inspection ot FSD	0%	0	21	1 0	29-Dec-20	18-Jan-21								Submission of App	lication for FS inspectio	n ot FSD
A7780	FS inspection by FSD	0%	0	14	1 2	19-Jan-21	01-Feb-21								FS inspection I	by FSD	
A7790	System/ Defect rectification	0%	0	40	) 5	02-Feb-21	13-Mar-21								Syst	em/ Defect rectification	
A7800	Submission of application for FS reinspection to FSD	0%	0	21	0	14-Mar-21	03-Apr-21									Submission of applicat	ion for FS reins
A7810	FS re-inspection by FSD	0%	0	14	1 2	04-Apr-21	17-Apr-21									FS re-inspection by	FSD
A7820	Issue FS certificates	0%	0	15	5 2	18-Apr-21	02-May-21									Issue FS certific	cates
A7830	Works completion for Handover	0%	0	1	1 0	03-May-21	03-May-21									Works complet	ion for Handove
Handover	of E&M equipment					,									<b>V</b>	🛛 🗸 03-May-21, Hai	ndover of E&M e
A8210	Submission of O&M manual, Training manual and spare part list	0%	0	30	)	30-Dec-20*	28-Jan-21								Submission of C	80 manual, Training m	anual and spare
A8220	Submission of final version of training manual	0%	0	30	)	29-Jan-21	27-Feb-21								Submiss	ion of final version of tr	aining manual
A8230	O&M training to DSD/ST2	0%	0	14	1	28-Feb-21	13-Mar-21			·						tra ning to D\$D/ST2	
A8240	Handover spare parts	0%	0	30	)	14-Mar-21	12-Apr-21									Handover spare part	s
A8250	Handover of Final version of O&M manual	0%	0	21	1	13-Apr-21	03-May-21								<b>_</b>	Handover of Fir	nal version of C

Actual Work	♦ Milestone	Contract No. DC/2018/17	Sheet 7 of 7
Remaining Work	Summary	Enhancement of Deodourization System at Stonecutter Island Sewage Treatment Works	29-
Critical Remaining W	ork	· · ·	
		First Programme	

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Date	Revision	Checked	Approved
9-Jul-19	Rev. 0		
29-Aug-19	Rev. 1		