## **Drainage Services Department**

## Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1

## Monthly EM&A Report March 2021

(Version 1)

Certified By	Jac	
	(Environmental Team Leader: Mr. KS Lee)	

REMARKS:

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

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

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22 April 2021

By E-mail and Fax (3922 9797)

AECOM Asia Company Limited 8/F., Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road Sha Tin, New Territories, Hong Kong

Attention: Mr CHANG Ping Wah

Dear Mr CHANG,

#### Re: Contract No. SPW 08/2019 Independent Environmental Checker for Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1

#### Monthly EM&A Report for March 2021

Reference is made to the Environmental Team's submission of Monthly EM&A Report for March 2021 (Version 1) certified by the ET Leader and provided to us via e-mail on 22 April 2021.

Please be informed that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of FEP-02/474/2013.

The ET Leader is reminded that it is the ET's responsibility to ensure the report be timely submitted to the Director of Environmental Protection as per Conditions 3.4 of the FEP-02/474/2013.

Thank you for your attention. Please do not hesitate to contact us should you have any queries.

Yours sincerely, For and on behalf of Ramboll Hong Kong Limited

Y H Hui Independent Environmental Checker

c.c.

DSD Cinotech Attn.: Ms Konica Cheung Attn.: Mr K. S. Lee (By Fax: 3104 6420) (By Fax: 3107 1388)

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## **EXECUTIVE SUMMARY**

## Introduction

1. This is the 15<sup>th</sup> EM&A Report prepared by the Environmental Team, Cinotech Consultants Ltd., for Agreement No. SPW 07/2019 "Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1". This report summarized the monitoring results and audits findings of the EM&A programme under the issued further EP No. FEP-02/474/2013 and in accordance with the Updated EM&A Manual during the reporting month of March 2021.

## Summary of Main Works Undertaken and Key Measures Implemented

2. The main works undertaken during the reporting period are as follows:

Contract No.	Contract Title	Site Activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	<ul> <li>ELS and excavation works</li> <li>Sheet pile installation</li> <li>RC works</li> <li>Strut installation and blinding layer</li> <li>Pipe jacking work</li> </ul>
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	<ul> <li>ELS and construction of inlet reception chamber</li> <li>Trench excavation</li> <li>Road and drainage works</li> <li>Diversion of inlet works</li> <li>Process pipe of CHR and CHS</li> <li>Pre-drilling work and foundation work</li> <li>Pre-bored H piles</li> <li>Cable diversion works</li> <li>Alternation of existing powerhouse</li> <li>Demolition work of existing main facilities</li> <li>Piling load test</li> </ul>
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	Pre-drilling works
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	<ul> <li>Construction of temporary filtrate equalisation tank.</li> <li>Installation of temporary primary sludge thickener and its accessories</li> <li>Dismantle and removal of E&amp;M equipment of the existing primary sedimentation tank no. 4</li> </ul>

 Table I
 Summary Table for Major Site Activities in the Reporting Month

3. Implementation of the key mitigation measures during the reporting period are as follows:

#### Air Quality

- Stockpiles were covered by impervious sheets.
- Water spraying on haul road was done to minimize dust generation.

#### Water Quality

• Wastewater was removed, pumped and collected in the sedimentation tank before discharge.

#### Waste Management

- Chemicals were stored in drip trays properly.
- Unused waste and materials were removed to maintain the tidiness of the site.

#### Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels during the reporting month (March 2021) and the investigation results and/or follow-up actions:

#### Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

#### Construction Noise Monitoring

• No Action/Limit Level exceedance for day time construction noise monitoring was recorded in the reporting month.

#### Ecological Monitoring

• No Action Level and 1 Limit Level exceedance was triggered.

## **Complaint Handling, Prosecution and Public Engagement**

## Table II Summary of Complaint/Summons/Prosecution in the Reporting Month

E-com 4	Event Details		Follow-up/ Remedial Actions	Status/
Event	Number	<b>Brief Description</b>		Remarks
Complaints Received	0	-	-	-
Notification of Summons and Prosecutions Received	0	-	_	-
Public Engagement Activities	0	-	-	-

## **Reporting Changes**

5. There were no reporting changes during the reporting month.

## Future Key Issues

6. The key works or activities will be anticipated in the next reporting period are as follows:

Contract No.	Contract Title	Site Activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	<ul> <li>ELS and excavation works</li> <li>Sheet pile installation</li> <li>RC works</li> <li>Strut installation and blinding layer</li> <li>Pipe jacking work</li> </ul>
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	<ul> <li>ELS and construction of inlet reception chamber</li> <li>Trench excavation</li> <li>Road and drainage works</li> <li>Diversion of inlet works</li> <li>Process pipe of CHR and CHS</li> <li>Pre-drilling work and foundation work</li> <li>Cable diversion works</li> <li>Demolition work of existing main facilities</li> <li>Alternation of existing powerhouse</li> <li>Pre-bored H piles</li> </ul>
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	<ul> <li>Break concrete pavement and ramp</li> <li>Construct sump pit and curb</li> <li>Relocate container includes, remove shrubs and laying blinding</li> <li>Setup of piling works, mobilization of plant and equipment</li> <li>Start pilling works</li> <li>Socket H pilling</li> </ul>
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	<ul> <li>Installation of temporary filtrate equalisation tank.</li> <li>Installation of temporary primary sludge thickener and its accessories</li> <li>Retrofitting the existing primary sedimentation tank No. 4 and 6</li> <li>Preparatory work for electrical installation at inlet works</li> </ul>

 Table III
 Summary Table for Site Activities in the Next Reporting Period

## **1 INTRODUCTION**

#### Background

- 1.1 The Further Expansion of Shek Wu Hui Effluent Polishing Plant (SWHEPP) is a designated Project (DP) under F.1 and F.2 of Part 1, Schedule 2 of Environmental Impact Assessment Ordinance (EIAO). The "North East New Territories New Development Areas" Environmental Impact Assessment (NENT NDAs EIA) Report (Registered No.: AEIAR-175/2013) covered the assessment for the Further Expansion of SWHSTW Phase 1A, 1B and 2, and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 18 October 2013.
- 1.2 The existing Shek Wu Hui Sewage Treatment Works (SWHSTW) is operated and maintained by the Drainage Services Department (DSD). It provides secondary level treatment to sewage collected from Sheung Shui, Fanling and adjacent areas, SWHSTW was completed in two stages and expanded progressively in the past year. In 2009, the expansion of SWHSTW was completed and its design capacity was 93,000m<sup>2</sup>/day at average dry weather flow (ADWF). After the Resource Allocation Exercise 2017, the existing SWHSTW is proposed to be upgraded from secondary to tertiary treatment level as the new SWHEPP at 3 stages: Main Works Stage 1, Stage 2 and Stage 3.
- 1.3 A Further Environmental Permit (EP) (Permit No. FEP-02/474/2013) was issued on 15 February 2018 to DSD as the Permit Holder to assume the responsibility for construction and operating the SWHEPP Project up to a capacity of 190,000m<sup>3</sup>/day. The updated Environmental Monitoring and Audit (EM&A) Manual was prepared in accordance with Condition 2.3 of the Further EP. The site layout plan for the Project is shown in **Figure 1.1**.
- 1.4 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for "Shek Wu Hui Effluent Polishing Plant Main Works Stage 1" (hereinafter called the "Project").

## **Purpose of the Report**

1.5 This is the 15<sup>th</sup> Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in March 2021.

#### **Project Organizations**

- 1.6 Different Parties with different levels of involvement in the project organization include:
  - Permit Holder Drainage Services Department (DSD)
  - Supervisor Representative AECOM Asia Company Limited (AECOM)
  - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
  - Independent Environmental Checker (IEC) Ramboll Hong Kong Limited (Ramboll)
  - Contractors
    - o Contract No.: DC/2018/06 Kwan Lee Chun Wo Joint Venture (KLCWJV)
    - Contract No.: DC/2018/07 Kwan Lee Chun Wo Joint Venture (KLCWJV)
    - Contract No.: DE/2018/03 Jardine Engineering Corporation Limited (JEC)
    - Contract No.: DE/2018/04 Bestwise Envirotech Limited (Bestwise)

1.7 The key contacts of the Project are shown in **Table 1.1**.

1 abic 1.1	Key Hojeet Contacts		
Party	Role	Contact Person	Phone No.
DSD	Permit Holder	Ms. Konica Cheung	2594 7463
AECOM	Supervisor Representative	Mr. Henry Tai	3792 0580
Cinotach	Environmental Team	Mr. KS Lee (ETL)	2151 2091
Cinotech	Environmental Team	Ms. Betty Choi	2151 2072
Ramboll	Independent Environmental Checker	Mr. Manson Yeung	3465 2888
KLCWJV	Contractor (DC/2018/06)	Ms. Ruby Hui	6218 6408
KLCWJV	Contractor (DC/2018/07)	Mr. Jimmy Cheng	9606 5916
JEC	Contractor (DE/2018/03)	Ms. Juliet Ting	6826 7319
Bestwise	Contractor (DE/2018/04)	Mr. Albus Cheung	9731 0831

## Table 1.1Key Project Contacts

1.8 The Organizational Structure for Environmental Management is shown in Figure 1.2.

## Construction Activities undertaken during the Reporting Month

1.9 The major site activities undertaken in the reporting month included:

 Table 1.2
 Summary Table for Major Site Activities in the Reporting Month

Contract No.	Contract Title	Site Activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	<ul> <li>ELS and excavation works</li> <li>Sheet pile installation</li> <li>RC works</li> <li>Strut installation and blinding layer</li> <li>Pipe jacking work</li> </ul>
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	<ul> <li>ELS and construction of inlet reception chamber</li> <li>Trench excavation</li> <li>Road and drainage works</li> <li>Diversion of inlet works</li> <li>Process pipe of CHR and CHS</li> <li>Pre-drilling work and foundation work</li> <li>Pre-bored H piles</li> <li>Cable diversion works</li> <li>Alternation of existing powerhouse</li> <li>Demolition work of existing main facilities</li> <li>Piling load test</li> </ul>

Contract No.	Contract Title	Site Activities
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	• Pre-drilling works
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	<ul> <li>Construction of temporary filtrate equalisation tank.</li> <li>Installation of temporary primary sludge thickener and its accessories</li> <li>Dismantle and removal of E&amp;M equipment of the existing primary sedimentation tank no. 4</li> </ul>

#### Summary of EM&A Requirements

- 1.10 The EM&A programme requires construction noise monitoring, air quality monitoring, water quality monitoring, ecological monitoring and environmental site audit, etc. 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 Report.
- 1.11 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 8 of this report.
- 1.12 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in March 2021.

## **Statues of Environmental Licensing and Permitting**

1.13 All permits/licenses obtained for the Project are summarized in **Table 1.3**.

	Permit / License No.	Valid I	Valid Period		
Contract No.	ract no. Fermit / License no.		То	Status	
Environmental Permit (EP)					
All	FEP-02/474/2013	15 Feb 2018	N/A	Valid	
Notification of	Construction Works under Air P	ollution Control	Ordinance (AP	C <b>O</b> )	
DC/2018/06	449210 (Portion A & C)	23 Sep 2019	N/A	Valid	
DC/2018/06	449211 (WM1)	23 Sep 2019	N/A	Valid	
DC/2018/07	449210	23 Sep 2019	N/A	Valid	
DE/2018/03	455843 (WA3)	6 May 2020	N/A	Valid	
DE/2018/03	457212 (WA1-B)	15 Jun 2020	N/A	Valid	
DE/2018/03	460065 (Sidestream)	16 Sep 2020	N/A	Valid	
DE/2018/04	460181	Notified EPD on 17 Sep 2020	N/A	Valid	
<b>Billing Accoun</b>	nt for Construction Waste Disposa	1			
DC/2018/06	7035390	11 Oct 2019	N/A	Valid	
DC/2018/07	7035985	9 Dec 2019	N/A	Valid	
DE/2018/03	7035700	6 Nov 2019	N/A	Valid	
DE/2018/04	703621912	2 Jan 2020	N/A	Valid	
Registration of	f Chemical Waste Producer				
DC/2018/06	5213-624-K3371-01	14 Nov 2019	N/A	Valid	
DC/2018/07	5213-624-K3371-02	6 Jan 2020	N/A	Valid	
DE/2018/03	5213-624-T3861-01	14 Apr 2020	N/A	Valid	
DE/2018/04	5213-624-B2592-01	7 Jul 2020	N/A	Valid	
Effluent Disch	arge License		·		
DC/2018/06	WT00035431-2019 (Portion C)	27 Jul 2020	31 Jan 2025	Valid	
DC/2018/06	WT00035718-2020 (Portion A)	2 Apr 2020	30 Apr 2025	Valid	
DC/2018/07	WT00035727-2020	1 Apr 2020	30 Apr 2025	Valid	
DE/2018/03	WT00037220-2020	16 Mar 2021	31 Jan 2026	Valid	
Construction Noise Permit (Use of Powered Mechanical Equipment at Portion A, B and C)					
DC/2018/06 & DC/2018/07	GW-RN0753-20	30 Oct 2020	11 Apr 2021	Valid	
Admission Tic	ket for Disposal of Special Waste		•	•	
DC/2018/07	16113	17 Feb 2021	16 Jun 2021	Valid	

#### Table 1.3 Summary of Environmental License and Permit

## 2 AIR QUALITY

## **Monitoring Requirement**

2.1 According to the Updated EM&A Manual of SWHEPP, 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

#### **Monitoring Locations**

2.2 Four designated monitoring stations were selected for air quality monitoring programme. Table2.1 describes the air quality monitoring locations, which are also depicted in Figure 2.

Monitoring Stations	Location	Location of Measurement
AM1 <sup>(1)</sup>	Wai Loi Tsuen	Ground Level
AM2 <sup>(1)</sup>	Fu Tei Au	Ground Level
AM1a <sup>(2)</sup>	Site Boundary of the Shek Wu Hui STW (East)	Ground Level
AM2a <sup>(2)</sup>	Site Boundary of the Shek Wu Hui STW (North)	Ground Level

Table 2.1 Air Quality Monitoring Locations

Remarks: (1) For 1-hour TSP monitoring; (2) For 24-hour TSP monitoring

## **Monitoring Parameters and Frequency**

2.3 **Table 2.2** summarizes the monitoring parameters, monitoring period and frequencies of impact air quality monitoring. The monitoring schedule is shown in **Appendix B**.

 Table 2.2 Frequency and Parameters of Air Quality Monitoring

Monitoring Stations	Parameter	Period	Frequency
AM1 & AM2	1-hour TSP	0700 - 1900	3 times/day, once every 6 days
AM1a & AM2a	24-hour TSP	24 hours	Once every 6 days

## **Monitoring Equipment**

- 2.4 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual, Section 2.2.2, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured by direct reading method.
- 2.5 Wind data monitoring equipment was set on rooftop (about 4/F) of the SWHSTW control room building for logging wind speed and wind direction such that the wind sensors were clear of obstructions or turbulence caused by building. The wind data monitoring equipment was recalibrated at least once every six months and the wind directions were divided into 16 sectors of 22.5 degrees each.

2.6 **Table 2.3** summarizes the equipment to be used for air quality monitoring. Copies of calibration certificates are attached in **Appendix C**.

Tuble Lie All Quality Monitoring Equipment			
Equipment	Model and Make	Quantity	
1-hour TSP Dust Meter	Sibata Model No.: LD-5R	2	
HVS Sampler	GMW Model: GS 2310	1	
	TISCH Model: TE 5170	1	
Calibrator	TISCH Model: TE-5025A	1	
Wind Anemometer	Global Water Instrumentation WE800	1	

#### Table 2.3Air Quality Monitoring Equipment

## **Monitoring Methodology**

#### **1-hour TSP Monitoring**

#### Measuring Procedures

2.7 The measuring procedures of the 1-hour dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(Sibata Model No.: LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

#### Maintenance/Calibration

- 2.8 The following maintenance/calibration is required for the 1-hour dust meter:
  - Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

## 24-hour TSP Monitoring

## Instrumentation

- 2.9 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Section 2.2 of the Annex II Specification.
- 2.10 The positioning of the HVS samplers are as follows:
  - A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
  - No two samplers shall be placed less than 2 meter apart;
  - The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
  - A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
  - A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
  - No furnace or incinerator flue is nearby;
  - Airflow around the sampler is unrestricted;
  - The sampler is more than 20 metres from the dripline;
  - Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
  - Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
  - A secured supply of electricity is needed to operate the samplers.

## Operating/analytical procedures for the operation of HVS

- 2.11 Operating/analytical procedures for the air quality monitoring are highlighted as follows:
  - Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m<sup>3</sup>/min. and 1.4 m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
  - For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of  $0.3 \mu m$  diameter were used.
  - The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
  - The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
  - The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.

- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (High Precision Chemical Testing Limited) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than  $\pm 3$ °C; the relative humidity (RH) should be < 50% and not vary by more than  $\pm 5\%$ . A convenient working RH is 40%.

## Maintenance/Calibration

- 2.12 The following maintenance/calibration is required for the HVS:
  - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
  - High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

## **Results and Observations**

- 2.13 Impact air quality monitoring was conducted at four monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**.
- 2.14 No Action/Limit Level exceedance was recorded for all 1-hour TSP monitoring in the reporting month.
- 2.15 No Action/Limit Level exceedance was recorded for all 24-hour TSP monitoring in the reporting month.
- 2.16 The air temperature, precipitation and the relative humidity data was obtained from daily extract of Ta Kwu Ling Station in Hong Kong Observatory Climate Information Service, where the wind speed and wind direction were recorded by the installed Wind Anemometer at rooftop (about 4/F) of the SWHSTW control room building. This weather information for the reporting month is summarized in **Appendix D**.
- 2.17 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 2.18 According to our field observations, the major dust source identified at the designated air quality monitoring stations are as follows:

Monitoring Stations	Major Dust Source
AM1 - Wai Loi Tsuen	Road Traffic at Sheung Shui Tung Hing Road
AM2 - Fu Tei Au	N/A
AM1a - Site Boundary of the Shek Wu Hui STW (East)	Vehicle Movement within SWHSTW
AM2a - Site Boundary of the Shek Wu Hui STW (North)	N/A

## Table 2.4 Major Dust Source during Air Quality Monitoring

## Comparison of EM&A Result with EIA Prediction

2.19 The air monitoring data was compared with the predictions in the EIA Report (as approved in 2013) as summarised in **Tables 2.5** and **Table 2.6**.

# Table 2.5Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report (As<br/>Approved in 2013)

Monitoring Stations	ASR ID	Predicted 1-hr TSP Concentration in EIA Report (as Approved in 2013), dB(A), μg/m <sup>3</sup>	Reporting Month (March 2021), μg/m <sup>3</sup>
AM1 - Wai Loi Tsuen	N/A	N/A <sup>(1)</sup>	24.2 - 149.6
AM2 - Fu Tei Au	FLN-E28	255	22.0 - 156.2

Remarks:

(1) No 1-hr TSP concentration was predicted in EIA Report (As Approved in 2013).

## Table 2.6Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report<br/>(As Approved in 2013)

Monitoring Stations	Predicted 24-hr TSP Concentration in EIA Report (as approved in 2013), dB(A), μg/m <sup>3</sup>	Reporting Month (March 2021), µg/m <sup>3</sup>
AM1a - Site Boundary of the Shek Wu Hui STW (East)	N/A <sup>(1)</sup>	42.7 - 82.0
AM2a - Site Boundary of the Shek Wu Hui STW (North)	N/A <sup>(1)</sup>	23.9 - 59.5

Remarks:

(1) No 24-hr TSP concentration was predicted in EIA Report (as approved in 2013).

2.20 The 1-hour TSP concentration at AM2 in the reporting month was lower than the prediction in the EIA Report (As Approved in 2013). The 1-hour TSP concentrations at AM1 as well as 24-hour TSP concentrations at AM1a and AM2a were not predicted in the EIA Report (As Approved in 2013).

## 3 NOISE

## **Monitoring Requirements**

3.1 According to the Updated EM&A Manual, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

## **Monitoring Locations**

3.2 Noise monitoring was conducted at three designated monitoring stations in the reporting period. **Table 3.1** and **Figure 3** show the locations of these stations.

Monitoring Stations	Location	Location of Measurement
NM1	Wai Loi Tsuen	Ground Level
NM2	Fu Tei Au	Ground Level
NM3	Man Kok Village	Ground Level

 Table 3.1
 Noise Monitoring Stations

## Monitoring Parameters, Frequency and Duration

3.3 **Table 3.2** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix B**.

Table 3.2Frequency and Parameters of Noise Monitoring

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
NM1				L <sub>10</sub> (30 min.) dB(A)	Free Field
NM2	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L <sub>90</sub> (30 min.) dB(A)	Free Field
NM3				L <sub>eq</sub> (30 min.) dB(A)	Free Field

## **Monitoring Equipment**

3.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level ( $L_{eq}$ ) and percentile sound pressure level ( $L_x$ ) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.3** summarizes the noise monitoring equipment being used. Copies of calibration certificates are attached in **Appendix G**.

_ Table 5.5 Noise Womtoring Equipment			
Equipment	Model and Make	Quantity	
Integrating Sound Level Meter	BSWA 308	3	
Calibrator	ST-120	2	

## Table 3.3Noise Monitoring Equipment

## Monitoring Methodology and QA/QC Procedure

- 3.5 The monitoring procedures are as follows:
  - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
  - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
  - The battery condition was checked to ensure the correct functioning of the meter.
  - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
    - Frequency weighting: A
    - Time weighting: Fast
    - Time measurement: 30 minutes
  - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
  - The wind speed was frequently checked with the portable wind meter.
  - At the end of the monitoring period, the L<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
  - Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

## Maintenance and Calibration

- 3.6 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.8 Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

## **Results and Observations**

- 3.9 No Action/Limit Level exceedance was recorded for all construction noise monitoring in the reporting month.
- 3.10 Noise monitoring results and graphical presentations are shown in Appendix H.

3.11 The major noise sources identified at the noise monitoring stations are shown in **Table 3.4**.

Monitoring Stations	Major Noise Source
NM1	Railway Noise and Road Traffic at Sheung Shui Tung Hing Road
NM2	N/A
NM3	Road Traffic at Po Wan Road

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

3.12 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq – Baseline Leq = CNL), in order to facilitate the interpretation of the noise exceedance. The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.

Table 3.5Baseline Noise Level and Noise Limit Level for Monitoring Stations

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
NM1	63.4	
NM2	58.0	75
NM3	63.4	

## Comparison of EM&A Result with EIA Prediction

3.13 The noise monitoring data was compared with the predictions in EIA Report (as approved in 2013) as summarised in **Table 3.6**.

# Table 3.6Comparison of Noise Monitoring Data with Predictions in EIA Report (As<br/>Approved in 2013)

Monitoring Stations	NSR ID	Predicted Mitigated Construction Noise Levels in EIA Report (as Approved in 2013), dB(A)	Reporting Month (March 2021), Leq (30min) dB(A)
NM1 - Wai Loi Tsuen	N/A	N/A <sup>(1)</sup>	53.5 –58.5
NM2 - Fu Tei Au	N/A	N/A <sup>(1)</sup>	53.8 –56.8
NM3 – Man Kok Village	FN-18	66-75	55.0 -60.1

Remarks:

(1) No construction noise level was predicted in EIA Report (As Approved in 2013).

3.14 The results at NM3 were lower than the range of the predicted mitigated construction noise levels in the EIA Report (As Approved in 2013). Construction noise levels at NM1 and NM2 were not predicted in the EIA Report (As Approved in 2013).

## 4 ECOLOGY

#### **Monitoring Requirements**

4.1 According to the Updated EM&A Manual, waterbird species which use rivers near the Project Site were identified and recorded. The monitoring requirement in the EM&A Manual is shown in **Table 4.1**. Appendix A shows the established Action/Limit Levels for ecological monitoring works.

## Table 4.1Monitoring of Measures to Minimise Disturbance to Waterbirds on Ng Tung,<br/>Sheung Yue and Shek Sheung Rivers during Construction Phase

Phase	Methodology	
Construction	Weekly transect at both high and low tides to identify and enumerate all bird species utilising the river channels and identify any sources of actual or potential disturbance to birds due to construction activities throughout the construction period.	

4.2 The monitoring should be conducted by the ET and supervised by a qualified ecologist who will be a member of the ET.

#### **Monitoring Locations**

4.3 Transect and point count surveys were proposed within the 500m boundary of Ng Tung River, Sheung Yue River and Shek Sheung River of the assessment area. Three transects and seven-point count locations during high and low tides were applied. These locations are shown in **Figure 4** and summarized in **Table 4.2**. The photo of each transect is provided in **Appendix J**.

Table 4.2	Ecological N	Monitoring	Stations
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Monitoring Stations	Descriptions	Influenced by Tidal Action
Transect T1		
Point Count Location P1		No
Point Count Location P2	Alara Na Tana Diara	
Transect T2	Along Ng Tung River	Yes
Point Count Location P3		
Point Count Location P4		
Deint Count Leastion D5	At Shek Sheung River	No
Point Count Location P5	(Low-flow Channel)	INO
Transect T3	Along Shek Sheung River & Sheung Yue River	Yes
Point Count Location P6	At Shek Sheung River	Yes
Point Count Location P7	At Intersection between Sheung Yue River and Shek Sheung River	Yes

## **Monitoring Parameters, Frequency and Duration**

4.4 Monitoring surveys were conducted on a weekly basis at both high and low tides (it is considered high tide when tidal levels are above 1.5m and low tide when tidal level are below 1.5m at Tsim Bei Tsui Station). The magnitude of how much above or below 1.5m was subject to tidal conditions of that week as it varied throughout different times of the year. Nonetheless, the high and low tide relative to that week's tidal condition were taken into consideration. The ecological monitoring schedule is shown in **Appendix B**.

## **Monitoring Methodology**

- 4.5 Transect survey was undertaken along the concerned rivers (Ng Tung River, Sheung Yue River and Shek Sheung River) adjacent to proposed construction activities. As the sensitive receivers (large waterbirds) are easily visible and the surveyor has used auxiliary equipment such as camera(s) and binoculars (magnification 7-10x). The transect route only follows one bank of these rivers.
- 4.6 At point count locations, surveyors identified and recorded bird species which were seen or heard along the river channel. For each point count, surveyors quantitatively recorded all species seen and heard for the duration of five minutes up to the distance where birds were still detectable. All avifauna along the walk transect were recorded. Noticeable behaviours (e.g. breeding behaviours such as nesting and presence of recently fledged juveniles, roosting and feeding activities, etc.) were recorded as well.
- 4.7 Ornithological nomenclature used in report should follow *The Avifauna of Hong Kong* (Carey et al. (2001)), *The Birds of Hong Kong and South China* (Viney et al. (2005)) and the most recent updated list from other sources (e.g. Hong Kong Bird Watching Society).
- 4.8 Weather conditions, tidal information at the time of the survey and other noticeable activities occurring within or in the vicinity of the survey areas (e.g. ongoing routine drainage channel maintenance works and other human activities that could create disturbances to birds) were recorded.

## **Analytical Methodology**

4.9 The number and species of waterbirds utilizing the rivers fluctuate every day naturally. Therefore, the survey data were collectively analysed on a monthly basis to increase the sample size and to reduce random error on one survey day. Since occurrence of waterbirds has distinctive seasonal pattern, the construction phase data for all waterbirds and representative waterbirds were compared with the baseline data for the respective month and season. The representatives of waterbirds are listed in **Table 4.3**.

Species Name	Common Name	Chinese Name
Egretta garzetta	Little Egret	小白鷺
Ardea cinerea	Grey Heron	蒼鷺
Ardeola bacchus	Chinese Pond Heron	池鷺
Phalacrocorax carbo	Great Cormorant	普通鸕鷀
Ardea alba	Great Egret	大白鷺
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺

#### Table 4.3 Representative Waterbirds

- 4.10 When a decline in abundance of all or representative waterbird is identified, one-tailed Student t-test was adopted to statistically analyse whether the drop is significant. If the collected data for the reporting month fails to show no significant difference from that in the baseline phase at 95% confidence level, the action level will be triggered. Likewise, the limit level is set at 99% confidence level.
- 4.11 In addition, if important behaviours such as breeding, brooding, nesting and presence of recently fledged juveniles of species of conservation importance are observed, the Resident Engineer, Contractor and IEC should be notified immediately after the survey. The Contractor should review current construction programme and minimize disturbance due to construction activities.

#### Results

4.12 For this reporting month, the numbers of species and individuals recorded were provided in **Table 4.4**. The photo record of waterbirds can be found in **Appendix J**.

 Table 4.4
 Total Bird Species and Abundance in the Reporting Month

	Number of Species	Abundance
All Avifauna	35	686
Waterbirds	16	260

4.13 **Table 4.5** presents the abundance of representative species.

Table 4.5 Abundance of Kepresentative water birds in the Keporting Mont	Table 4.5	Abundance of Representative Waterbirds in the Reporting Month
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Species Name	Common Name	Chinese Name	Abundance
Egretta garzetta	Little Egret	小白鷺	77
Ardea cinerea	Grey Heron	蒼鷺	26
Ardeola bacchus	Chinese Pond Heron	池鷺	44
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	4
Ardea alba	Great Egret	大白鷺	26
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	51

## Analysis

4.14 The result of student t-tests for all waterbirds and representative waterbirds are compiled in **Table 4.6** and **4.7** respectively. Further details are provided in **Appendix I**.

Table 4.6T-test Result for All Waterbirds in the Reporting Month

T-values of Data in Reporting Month		Confidence Level (Critical Value)		
1-values (	s of Data in Reporting Month		95% (-2.132)	99% (-3.747)
Ahundonoo	Monthly	0.691	$\checkmark$	$\checkmark$
Abundance	Seasonal	-1.810	$\checkmark$	$\checkmark$

Remarks

✓ = T-value falls within the confidence level, the impact monitoring data shows no significant difference to the baseline data.

**\*** = T-value falls outside the confidence level, the impact monitoring data shows significant difference to the baseline data.

Common Name of	<b>T-value</b>		nce Level l Value)	<b>T-value</b>		nce Level l Value)	Overall
Representative Waterbird	Monthly	95% (-2.132)	99% (-3.747)	Seasonal	95% (-2.132)	99% (-3.747)	Overaii
Little Egret	-1.897	$\checkmark$	>	0.377	<b>&gt;</b>	<b>&gt;</b>	$\checkmark$
Grey Heron	2.593	$\checkmark$	$\checkmark$	-7.749	×	×	✓
Chinese Pond Heron	-0.352	$\checkmark$	$\checkmark$	-0.359	$\checkmark$	$\checkmark$	~
Great Cormorant	-3.810	×	×	-12.917	×	×	Limit Level
Great Egret	0.707	$\checkmark$	$\checkmark$	-0.058	$\checkmark$	$\checkmark$	$\checkmark$
Eastern Cattle Egret	0.878	$\checkmark$	$\checkmark$	5.453	$\checkmark$	$\checkmark$	~

Table 4.7T-test Result for Representative Waterbirds in the Reporting Month

Remarks

 $\checkmark$  = T-value falls within the confidence level, the impact monitoring data shows no significant difference to the baseline data.

 $\mathbf{x} =$ T-value falls outside the confidence level, the impact monitoring data shows significant difference to the baseline data.

- 4.15 Zero (0) Action Level and one (1) Limit Level was triggered for ecological monitoring in the reporting month.
- 4.16 The exceedance of Great Cormorant is considered as non-project-related as March 2021 was exceptionally warm in Hong Kong. To further elaborate, the monthly mean maximum temperature of 24.8 degrees, monthly mean temperature of 22.0 degrees and monthly mean minimum temperature of 20.2 degrees were 2.9 degrees, 2.5 degrees and 2.6 degrees above their corresponding normals (or 3.4 degrees, 2.9 degrees and 3.0 degrees above their corresponding 1981-2010 normals) and all of them were the highest of the correspondingly monthly mean values of March on record. It is assumed that such weather condition had encourage migratory bird such as Great Cormorant to migrate earlier than normal. In addition, Grey Heron, a winter visitor, had also experienced similar decline in the reporting month.
- 4.17 Site observation in the reporting month shows that construction activities are similar to previous months, no extremely loud noises was heard during the monitoring and data from other representative waterbirds indicate no overall decline in other resident birds. Mitigation such as noise barrier in green and hoarding in green had been erected around the construction site properly.

4.18 The monitoring work will continue next month to evaluate any construction impact on waterbirds.

#### Observations

- 4.19 Waterbird behaviour observed during ecological monitoring are listed below:
  - Flying
  - Foraging
  - Soaring
  - Resting

4.20 The anthropogenic activities observed during ecological monitoring are listed in **Table 4.8**.

Table 4.8Observations during Ecological Monitoring in the Reporting Month

Location	Obse	rvations
Location	Project Related	Non-project Related
T1 (PC1, PC2)	N/A	Fishing and jaywalking
T2 (PC3, PC4)	Excavation, crane and sheet- piling	Fishing, golfing and jaywalking
PC5	Excavation, crane and sheet- piling	N/A
T3 (PC6, PC7)	N/A	Fishing, jaywalking, breaking works, set-up of sedimentation tank and unknown source of smoke

## 5 WATER QUALITY

#### **Monitoring Requirement**

- 5.1 According to the Updated EM&A Manual, no water monitoring is required before the commencement of outfall construction at Ng Tung River.
- 5.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix K**.

## **6 WASTE MANAGEMENT**

#### **Monitoring Requirement**

6.1 According to the Updated EM&A Manual, waste management would be the contractor's responsibility to ensure that all wastes produced during the construction works for the Project are handled, stored and disposed of in accordance with good waste management practices, EPD's regulations and requirements. No monitoring for waste management is required for the Project. An environmental management plan (EMP) should be prepared and submitted to the Supervisor for approval. The monitoring and auditing requirements of the EMP should be followed with regard to the management of C&D material.

#### Waste Management Status

- 6.2 Site audits were carried out on a weekly basis to monitor and audit to ensure that proper storage, transportation and disposal practices of waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse are being implemented. The summaries of site audits are attached in **Appendix K**.
- 6.3 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix L**.

## 7 LANDSCAPE AND VISUAL

#### **Audit Requirement**

- 7.1 According to the Updated EM&A Manual, site audits would be undertaken during the construction phase of the Project to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. Particularly audits would be carried out during site clearance when proposed tree felling and transplantation may occur. Site inspections would be undertaken at least once every two weeks during the construction period.
- 7.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix K**.

#### 8 ENVIRONMENTAL AUDIT

#### Site Audits

- 8.1 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. The summaries of site audits are attached in **Appendix K**.
- 8.2 Site audits for Contract No. DC/2018/06 and DC/2018/07 were conducted on 2, 11, 16, 23 & 30 March 2021 in the reporting month, whereas that for Contract No. DE/2018/03 and DE/2018/04 were conducted on 2, 9, 16, 23 & 30 March 2021 in the reporting month. Joint site inspection with the representative of IEC was conducted on 23 March 2021. No non-compliance was observed during the site audit.

#### **Implementation Status of Environmental Mitigation Measures**

- 8.3 According to Environmental Permits, the approved EIA Report (Register No.: AEIAR-175/2013), and the Updated EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix N**.
- 8.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Tables 8.1 8.4**. Refer to **Appendix K** for the site inspection summary reports in the reporting month.

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	23 Mar 2021	Wastewater should be pumped out and treated via sedimentation tank before discharge at Portion A.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 Mar 2021.
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Visual and Landscape	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

 Table 8.1
 Observations and Recommendations of Site Audit of Contract No. DC/2018/06

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	N/A	There was no observation in the reporting period.N/A	
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Visual and Landscape	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Table 8.2         Observations and Recommendations of Site Audit of Contract No. DC/2018/07
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Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	N/A	There was no observation in the reporting period.N/A	
Air Quality	N/A	There was no observation in the reporting period.N/A	
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Visual and Landscape	N/A	There was no observation in the reporting period. N/A	
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Parameters	Date	Observations and Recommendations	Follow-up	
Water Quality	N/A	There was no observation in the reporting period.	N/A	
Air Quality	N/A	There was no observation in the reporting period.	N/A	
Noise	N/A There was no observation in the reporting period.		N/A	
Waste / Chemical	23 Mar 2021	Chemicals should be stored in drip tray at Portion B-3-B.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 Mar 2021.	
Management	30 Mar 2021	Waste accumulated should be removed at Portion B-3-B.	Follow-up actions will be reported in the next month.	
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A	
Visual and Landscape	N/A	There was no observation in the reporting period.	N/A	
Permits /Licences	N/A	There was no observation in the reporting period.	N/A	

## Table 8.4 Observations and Recommendations of Site Audit of Contract No. DE/2018/04

## **Implementation Status of Event and Action Plans**

8.5 The Event and Action Plans for air quality, construction noise, ecological monitoring and landscape and visual are presented in **Appendix M**.

#### Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

#### Construction Noise Monitoring

- No documented complaint on construction noise was received; no Action Level exceedance for day time construction noise monitoring was recorded.
- No Limit Level exceedance for day time construction noise monitoring was recorded in the reporting month.

#### Ecological Monitoring

• No Action Level and 1 Limit Level was triggered.

#### Landscape and Visual Monitoring

• No non-conformity for landscape and visual was recorded.

## 9 ENVIRONMENTAL NON-CONFORMANCE

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

- 9.1 No environmental complaints, warning, notifications of summons and successful prosecutions were received in the reporting month.
- 9.2 The summary of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix O**.

## **Summary of Exceedance**

9.3 The summary of exceedance record in reporting month is shown in **Appendix P**.

## **10 FUTURE KEY ISSUES**

- 10.1 Tentative construction programmes for the next three months are provided in Appendix Q.
- 10.2 Major site activities undertaken for the coming months are summarized in **Table 10.1**.

#### Table 10.1 Summary Table for Site Activities in the Next Reporting Period

Contract No.	Contract Title	Site Activities	
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	<ul> <li>ELS and excavation works</li> <li>Sheet pile installation</li> <li>RC works</li> <li>Strut installation and blinding layer</li> <li>Pipe jacking work</li> </ul>	
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	<ul> <li>ELS and construction of inlet reception chamber</li> <li>Trench excavation</li> <li>Road and drainage works</li> <li>Diversion of inlet works</li> <li>Process pipe of CHR and CHS</li> <li>Pre-drilling work and foundation work</li> <li>Cable diversion works</li> <li>Demolition work of existing main facilities</li> <li>Alternation of existing powerhouse</li> <li>Pre-bored H piles</li> </ul>	
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	<ul> <li>Break concrete pavement and ramp</li> <li>Construct sump pit and curb</li> <li>Relocate container includes, remove shrubs and laying blinding</li> <li>Setup of piling works, mobilization of plant and equipment</li> <li>Start pilling works</li> <li>Socket H pilling</li> </ul>	
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	<ul> <li>Installation of temporary filtrate equalisation tank.</li> <li>Installation of temporary primary sludge thickener and its accessories</li> <li>Retrofitting the existing primary sedimentation tank No. 4 and 6</li> <li>Preparatory work for electrical installation at inlet works</li> </ul>	

10.3 Key environmental issues in the coming months include:

- Stockpile accumulation on-site;
- Water spraying for dust generating activities and on haul road;
- Wastewater and runoff discharge from site;
- No disposition of slurry at the existing Shek Wu Hui Sewage Treatment Works;
- Coverage of open manholes to avoid dirty runoff to drainage system;
- Noise from operation of the equipment, especially for excavation works and machinery onsite;
- Accumulation of general refuse and construction waste on-site;
- Proper storage of construction materials on-site; and
- Storage of chemicals/fuel and chemical waste/waste oil on-site.

#### **Monitoring Schedule**

10.4 The tentative environmental monitoring schedule for the next month is shown in **Appendix B**.

## 11 CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

11.1 This is the 15<sup>th</sup> Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the Updated EM&A Manual and the requirement under EP.

#### Air Quality Monitoring

11.2 No Action/Limit Level exceedance was recorded for all 1-hour and 24-hour TSP monitoring in the reporting month.

#### Construction Noise Monitoring

11.3 No Action/Limit Level exceedance was recorded for all noise monitoring in the reporting month.

Ecology

11.4 No Action Level and 1 Limit Level exceedance was triggered for all ecological monitoring in the reporting month. The decline of Great Cormorant was considered as non-project-related.

Site Audit

11.5 5 ET joint weekly environmental site inspections were conducted in the reporting month.

#### Complaint, Notification of Summons and Successful Prosecution

11.6 No environmental complaints, notifications of summons and successful prosecutions were received in the reporting month.

## Recommendations

11.7 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality

- Regular water spraying on haul road and dry surfaces should be applied to minimize dust generation.
- Stockpiles should be covered by impervious materials.

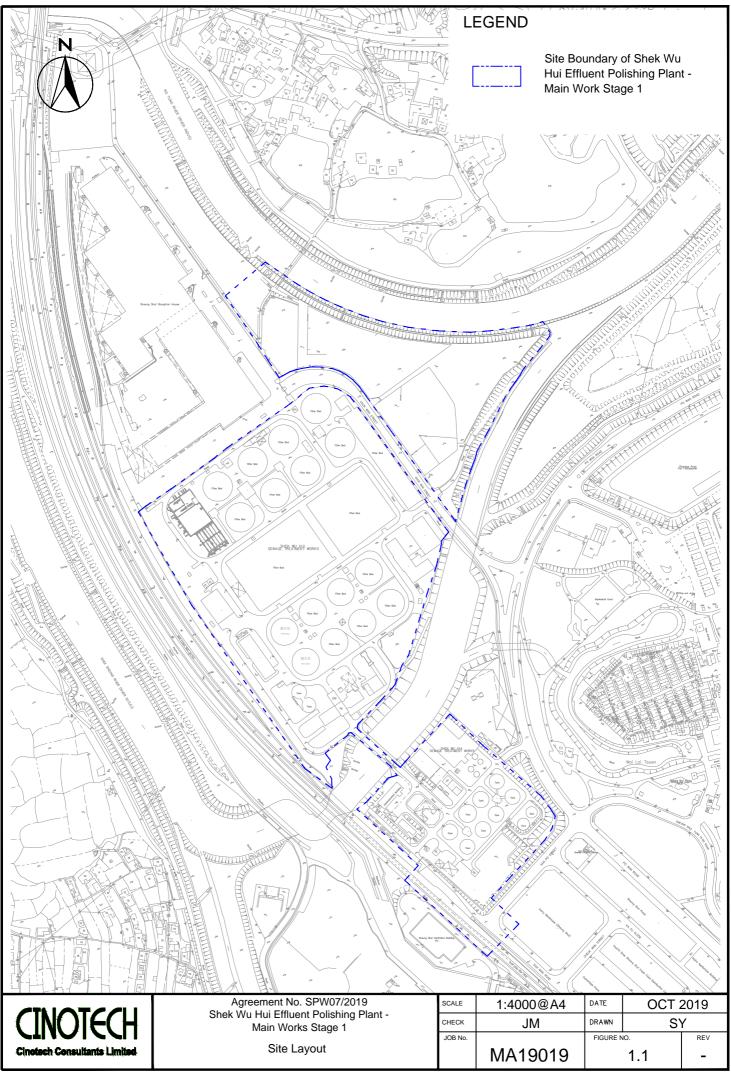
#### Water Quality

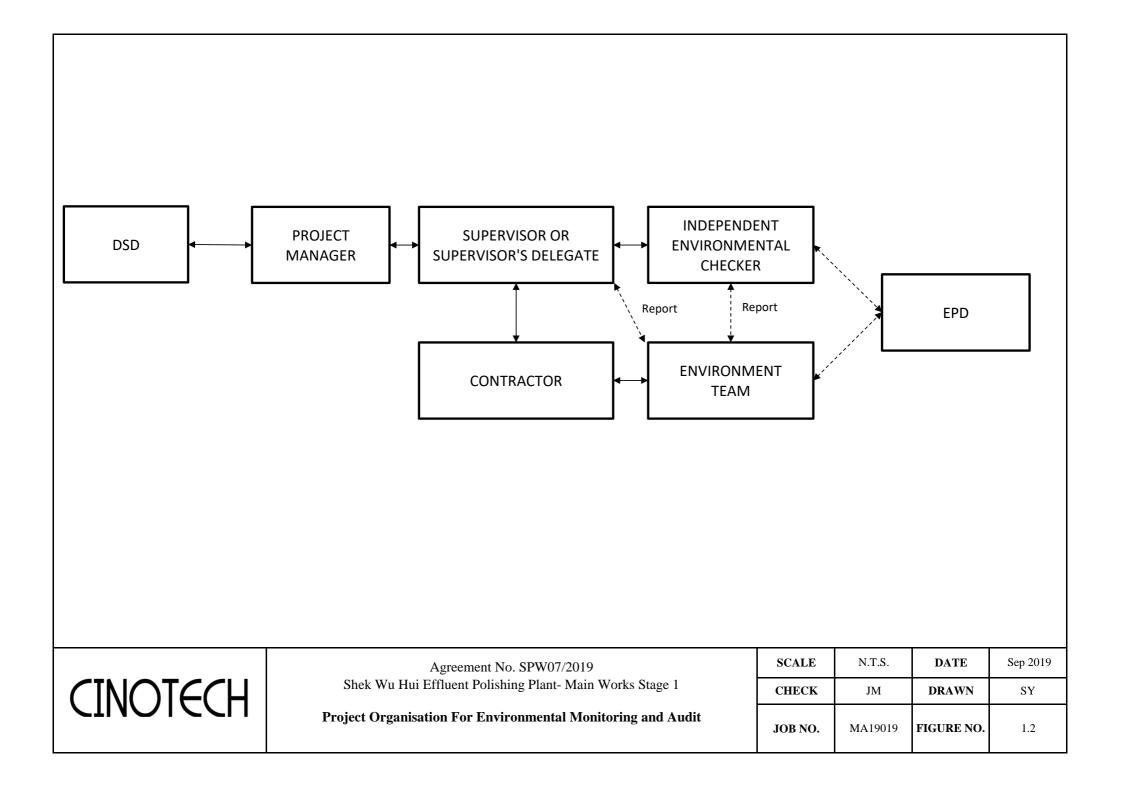
- Stagnant water should be removed and pumped through the sedimentation tank.
- Wastewater should be pumped and collected in the sedimentation tank before discharge.
- Muddy water should not be discharged into the surrounding rivers.
- No slurry should be disposed of at the existing Shek Wu Hui Sewage Treatment Works.

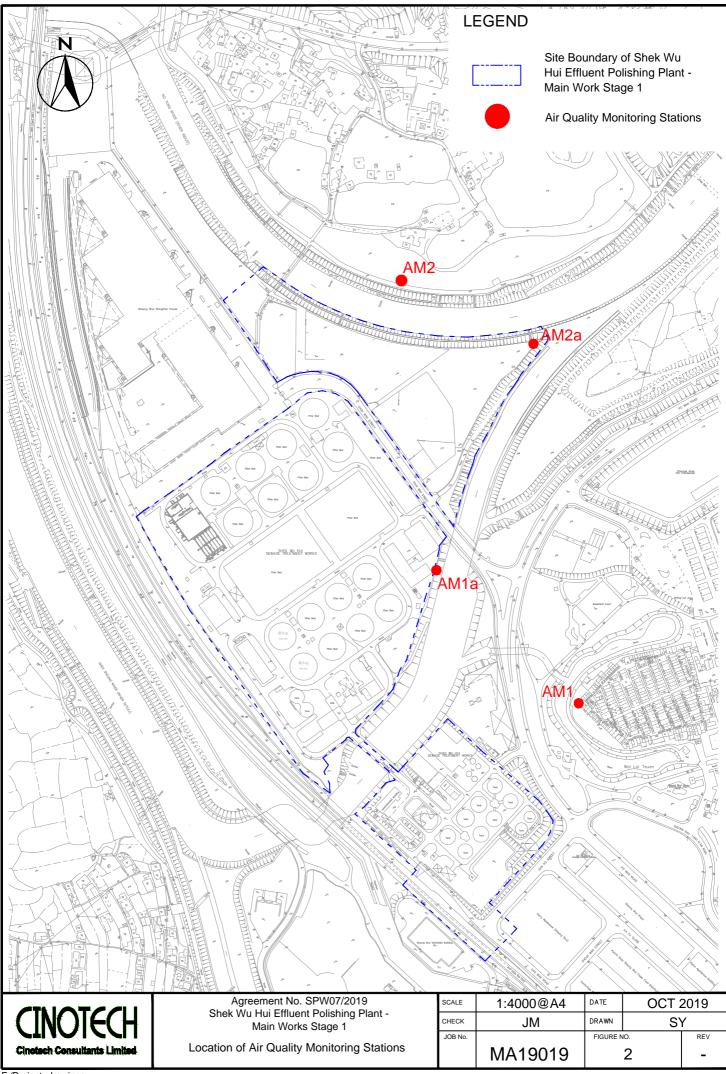
#### Waste Management

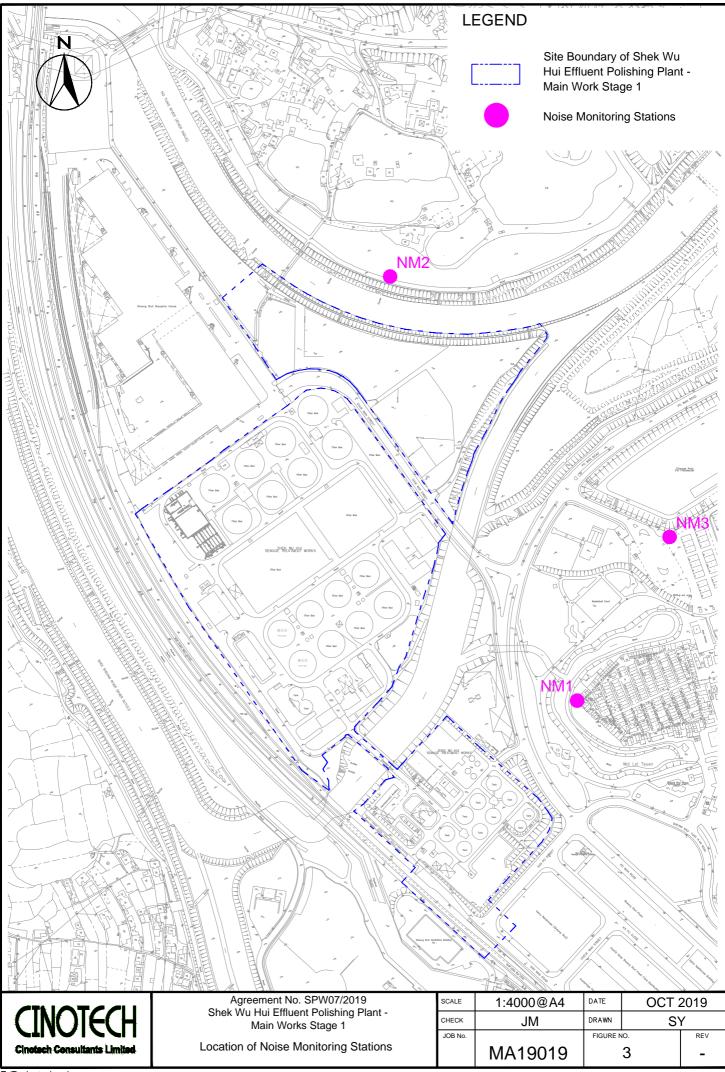
- General refuse and construction waste accumulation should be avoided.
- Chemicals should be stored in drip trays properly.

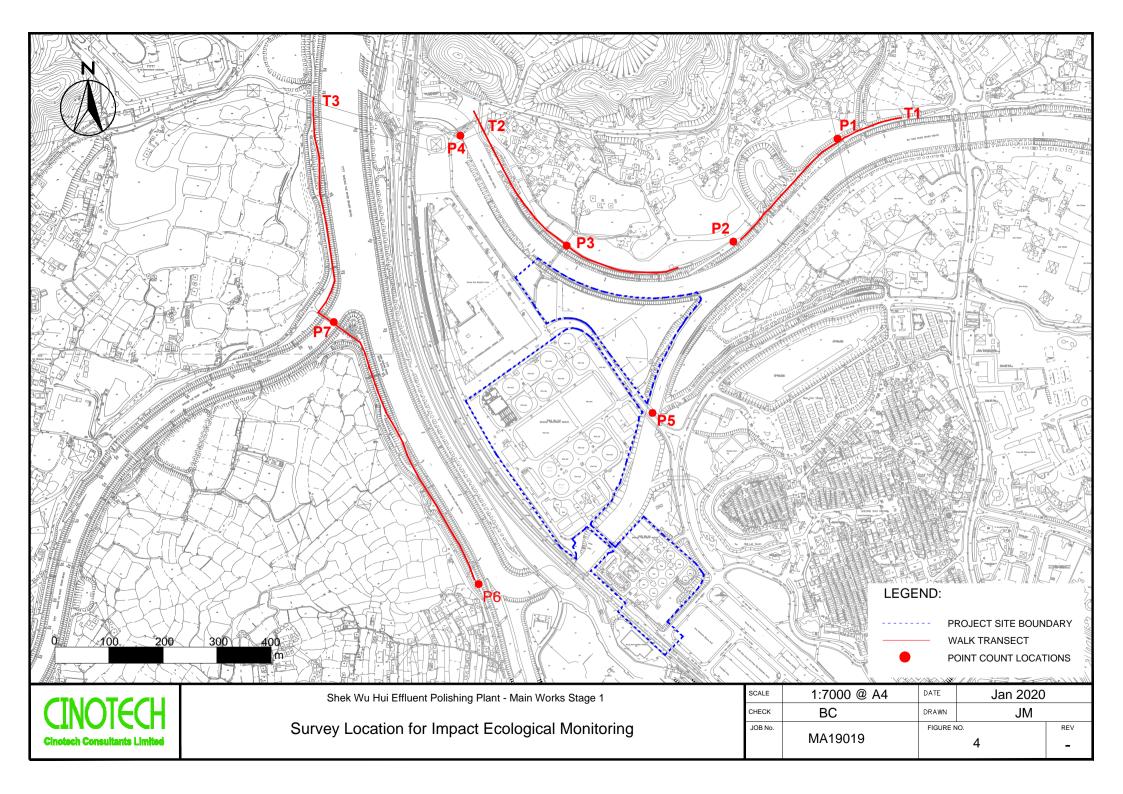
FIGURES











APPENDIX A ACTION AND LIMIT LEVELS

### **Appendix A - Action and Limit Levels**

Location	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM1	320	500
AM2	322	300

#### Table A-1Action and Limit Levels for 1-hour TSP

#### Table A-2Action and Limit Levels for 24-hour TSP

Location	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM1a	189	260
AM2a	187	200

Table A-3Action and	nd Limit Levels for [	Noise during	Construction Period
---------------------	-----------------------	--------------	---------------------

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	$75 \text{ dB(A)}^*$

\*Remarks:

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

• Reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

# Table A-4Action and Limit Levels of Disturbance to Waterbirds using Ng Tung,<br/>Sheung Yue and Shek Sheung Rivers during Construction Phase

Action Level	Limit Level
Decline in numbers of all waterbird species relative to numbers during Baseline Monitoring such that the Action Level response is triggered.	1
Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Action Level response is triggered.	•

Note: Whether numbers are significant depend on species and season after collection and evaluation of baseline survey data.

APPENDIX B ENVIRONMENTAL MONITORING SCHEDULES

#### Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Impact Air, Noise and Ecology Monitoring Schedule (March 2021)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar
	24 hrs TSP Ecology			1 hr TSP x 3 Noise		24 hrs TSP
7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar
		1 hr TSP x 3 Noise			24 hrs TSP Ecology	
14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar
	1 hr TSP x 3 Noise	Ecology		24 hrs TSP	1 hr TSP x 3	
21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar
			24 hrs TSP	1 hr TSP x 3 Noise	Ecology	
28-Mar	29-Mar	30-Mar	31-Mar			
	Ecology	24 hrs TSP	1 hr TSP x 3 Noise			

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

#### Air Quality Monitoring Station

*1-hr TSP* AM1 - Wai Loi Tsuen AM2 - Fu Tei Au

#### Noise Monitoring Station

NM1 - Wai Loi Tsuen NM2 - Fu Tei Au NM3 - Man kok Village

24-hr TSP AM1a - Site Boundary of the Shek Wu Hui STW (East) AM2a - Site Boundary of the Shek Wu Hui STW (North)

#### Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Tentative Impact Air, Noise and Ecology Monitoring Schedule (April 2021)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Apr	2-Apr	3-Apr
				1 hr TSP x 3 24 hrs TSP		
4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr
			1 hr TSP x 3 Noise 24 hrs TSP	Ecology		
11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr
	24 hrs TSP Ecology	1 hr TSP x 3 Noise				24 hrs TSP
18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr
	1 hr TSP x 3 Noise	i	24 hrs TSP	1 hr TSP x 3	Ecology	
25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	
	Ecology	24 hrs TSP	1 hr TSP x 3 Noise			

#### Air Quality Monitoring Station

*1-hr TSP* AM1 - Wai Loi Tsuen AM2 - Fu Tei Au

#### **Noise Monitoring Station**

NM1 - Wai Loi Tsuen NM2 - Fu Tei Au NM3 - Man kok Village

24-hr TSP AM1a - Site Boundary of the Shek Wu Hui STW (East) AM2a - Site Boundary of the Shek Wu Hui STW (North)

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING

## **Certificate of Calibration**

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator	Date of Calibration 5-Feb-21				
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	5-Apr-21	
Model No.:	LD-5R					
Serial No.:	8Y2374					
Equipment No.:	SA-01-04	Sensitivity	0.001 mg/m3	-		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	652		
Tisch Calibration	n Orifice No.: <u>3607</u>	After Sensitivi	ity Adjustment	652		
	Ca	libration of 1 h	r TSP			
Calibration	Laser Dust Monitor	r		HVS		
Point	Mass Concentration (µg/ X-axis	′m3)	Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>			
1	52.0			107.0		
2	47.0			101.0		
3	43.0			95.0		
Average	47.3			101.0		
	ression of Y on X 		cept, bw =	38.1475		
		et Correlation F	actor			
	centration by High Volume Sampler		101.0			
Particaulate Con	ncentration by Dust Meter (µg/m <sup>3</sup> )		47.3			
Measureing time	e, (min)		60.0			
Set Correlation I						
SCF = [ K=Hig	h Volume Sampler / Dust Meter, (µ	g/m3) ]	2.1			

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by: \_\_\_\_\_\_ Wong Shing Kwai

Approved by: <u>lemy Kang</u> Henry Leung

## **Certificate of Calibration**

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator	Date of Calibration 5-Feb-21				
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calibration Record 5-Apr-21				
Model No.:	LD-5R					
Serial No.:	972778					
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3			
High Volume Sa	ampler No.: <u>A-01-01A</u>	Before Sensiti	vity Adjustment	735 CPM		
Tisch Calibratio	n Orifice No.: 3607	After Sensitivi	ity Adjustment	735 CPM		
	Ca	libration of 1 h	r TSP			
Calibration	Laser Dust Monitor	r		HVS		
Point	Mass Concentration (µg/	/m3)	Mas	ss concentration (µ	ug/m <sup>3</sup> )	
	X-axis		Y-axis			
1	51.0		107.0			
2	45.0		101.0			
3	40.0		95.0			
Average	45.3		101.0			
Ry Linear Reg	ession of Y on X					
Slope, mw =	1.0879	Interd	cept, bw =	51.6813		
Correlation co			cept, bu	51.0015		
	Se	et Correlation F	actor			
Particaulate Con	centration by High Volume Sampler		101.0			
Particaulate Con	centration by Dust Meter ( $\mu g/m^3$ )	45.3				
Measureing time	e, (min)		60.0			
Set Correlation	Factor, SCF					
SCF = [ K=Hig	h Volume Sampler / Dust Meter, (μ	g/m3) ]	2.2			

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)



RECALIBRATION DUE DATE:

January 17, 2021

nmental Certificate of Calibration

			Calibration	Certificati	on Informat	tion		
Cal. Date:	January 17	, 2020	Roots	meter S/N:	438320	Ta:	295	°K
Operator:	Jim Tisch					<b>Pa:</b> 744.2		mm Hg
Calibration	Model #:	TE-5025A	Cali	brator S/N:	3746			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔН	]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4340	3.2	2.00	
	2	3	4	1	1.0180	6.4	4.00	
	3	5	6	1	0.9080	7.9	5.00	
	4	7	8	1	0.8700	8.7	5.50	
	5	9	10	1	0.7150	12.6	8.00	
			l	Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	)( <u>Tstd</u> )		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9849	0.6868	1.40	66	0.9957	0.6944	0.8904	
	0.9807	0.9633	1.98		0.9914	0.9739	1.2592	
	0.9787	1.0779	2.224		0.9894	1.0896	1.4078	
	0.9776	1.1237	2.332		0.9883	1.1360	1.4765	
	0.9724	1.3601	2.813		0.9831	1.3749	1.7808	
	OCTD	m= b=	2.092				1.31010	
	QSTD	r=	-0.027		QA	b= r=	-0.01759 0.99994	
				Calculatio	ns			
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta			ΔVol((Pa-Δl	P)/Pa)	
	Lawrence and the second s	Vstd/∆Time	, , , , , , , , , , , , , , , , , , , ,	,	the second se	Va/ATime	// /	
			For subsequ	ent flow ra	te calculation	าร:		
	<b>Qstd=</b> $1/m \left( \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right) \right) \right)$			) )-b)	Qa=	$1/m\left(\sqrt{\Delta H}\right)$	І(Та/Ра))-b)	
		Conditions						
Tstd:		°K		[		RECA	IBRATION	
Pstd:		mm Hg Key			US EPA reco	ommends ar	nual recalibratio	n per 1998
AH: calibrat		er reading (in	n H2O)				Regulations Part 5	
		eter reading (					Reference Meth	
		perature (°K)					ended Particulate	
	arometric pr	essure (mm	Hg)				re, 9.2.17, page 3	
o: intercept				l			, , , , , , , , , , , , , , , , , , , ,	
m: slope								

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

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





Certificate of Calibration

			Calibration	Certificati	on Informat	tion		
Cal. Date:	January 11, 2021 Rootsmeter S/			meter S/N:	438320 <b>Ta:</b> 297		°К	
Operator:	Jim Tisch					Pa:	750.1	mm Hg
Calibration	Model #:	TE-5025A	Calil	brator S/N:	3864			
	· · · · · · · · · · · · · · · · · · ·							1
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4470	3.2	2.00	
	2	3	4	1	1.0210	6.4	4.00	
	3	5	6	1	0.9140	8.0	5.00	
	4	, 7	8	1	0.8670	8.8	5.50	
	5	9	10	1	0.7140	12.9	8.00	
			[	Data Tabula	tion			]
			/ / Pa	V Tetd )				
	Vstd	Qstd	√ <sup>∆H</sup> (Pstd	)( <u>Tstd</u> )		Qa	√∆H( Ta/Pa )	
	(m3)	(x-axis)	y (y-ax		Va	(x-axis)	(y-axis)	
	0.9860	0.6814	1.40		0.9957	0.6881	0.8899	
	0.9818	0.9616	1.99	02	0.9915	0.9711	1.2585	1
	0.9797	1.0719	2.22	51	0.9893	1.0824	1.4071	1
	0.9786	1.1288	2.33	37	0.9883	1.1399	1.4757	1
	0.9732	1.3630	2.814	46	0.9828	1.3765	1.7798	
		m=	2.065	566		m=	1.29348	
		b=	0.003	815	QA	b=	0.00199	
		r=	0.999	96		r=	0.99996	
				Calculations				
	Vstd=	ΔVol((Pa-ΔP)	)/Pstd)(Tstd/Ta	a)	Va=	ΔVol((Pa-Δ	P)/Pa)	
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd=	1/m (( \\ \[ \Delta H (	Pa <u>Tstd</u> Pstd Ta	-))-b)	Qa=	$1/m\left(\sqrt{\Delta H}\right)$	l(Ta/Pa))-b)	
	Standard	Conditions						
Tstd						RECA	LIBRATION	
Pstd	760	mm Hg						400
A 1 1 . 1+1		Key	1120)				nnual recalibratio	-
		ter reading (i					Regulations Part	
		eter reading perature (°K)					, Reference Meth	
		ressure (mm				1	ended Particulat	
b: intercept	the second s				tn tn	e Atmosphe	ere, 9.2.17, page	30
m: slope								

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290.1

Temperature, Ta (K)

File No. MA19019/17/0008

764.9

Project No.	AM1a - Site boundary of the				
Date:	6-Jan-21	Next Due Date:	6-Mar-21	Operator:	SK
Equipment No.:	A-01-17	Model No.:	Model No.: GS2310		3460
		Ambient Condit	ion		

Orifice Transfer Standard Information						
Serial No.	3746	3746         Slope, mc         0.0592         Intercept, bc         -0.02740				
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	17-Jan-21		$Qstd = \{ [\Delta H x ]$	$(Pa/760) \ge (298/Ta)]^{1/2} -bc\} /$	mc	

Pressure, Pa (mmHg)

	Calibration of TSP Sampler						
Calibration			HVS				
Point	ΔH (orifice), in. of water	[ΔH x (Pa/7	60) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	[ΔW x (P	a/760) x (298/Ta)] <sup>1/2</sup> <b>Y-axis</b>
1	13.0		3.67	62.39	9.5		3.13
2	10.4		3.28	55.85	7.1		2.71
3	8.2		2.91	49.65	5.4		2.36
4	5.3		2.34	40.00	3.3		1.85
5	2.8		1.70	29.20	1.8		1.36
By Linear Regression of Y on X Slope , mw =0.0531 Intercept, bw :0.2346 Correlation coefficient* =0.9976 *If Correlation Coefficient < 0.990, check and recalibrate.							
	Set Point Calculation						
	eld Calibration Co						
From the Regres	sion Equation, the		C	7 (Pa/760) v (20	$(38/T_{2})$ ] <sup>1/2</sup>		
Therefore, Se	$mw x Qstd + bw = [\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) <sup>2</sup> x (760 / Pa) x (Ta / 298) =					-	
Remarks:							
Conducted by: Checked by:	SK Wong Henry Leung	Signature: Signature:	-le-70	xor		Date: Date:	6 January 2021 6 January 2021

293

Temperature, Ta (K)

File No. MA19019/17/0009

764.5

Project No.	AM1a - Site boundary of the	e Shek Wu Hui STW (East)			
Date:	6-Mar-21	Next Due Date:	6-May-21	Operator:	SK
Equipment No.:	A-01-17	Model No.:	GS2310	Serial No.	3460
		Ambient Condit	ion		

Pressure, Pa (mmHg)

Orifice Transfer Standard Information					
Serial No.	3864	3864         Slope, mc         0.05846         Intercept, bc         -0.00313			
Last Calibration Date:	11-Jan-21	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$	] <sup>1/2</sup>
Next Calibration Date:	11-Jan-22		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} /	mc

Calibration of TSP Sampler						
Calibration		Orfice		HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water		760) x (298/Ta)] <sup>1/2</sup> <b>Y-axis</b>
1	13.1	3.66	62.68	9.8		3.17
2	10.3	3.25	55.58	7.4		2.75
3	8.1	2.88	49.30	5.6		2.39
4	5.3	2.33	39.89	3.4		1.87
5	2.8	1.69	29.01	1.9		1.39
By Linear Regression of Y on X Slope , mw =0.0530 Intercept, bw =0.1932 Correlation coefficient =0.9980 *If Correlation Coefficient < 0.990, check and recalibrate.						
Set Point Calculation						
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM				
From the Regres	sion Equation, the	e "Y" value according to				
Therefore, Se	$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) <sup>2</sup> x (760 / Pa) x (Ta / 298) = 4.26					
Remarks:						
Conducted by:	SK Wong	Signature: 6			Date:	6 March 2021
Conducted by:       SK Wong       Signature:       Image: March 2021         Checked by:       Henry Leung       Signature:       Image: March 2021         Date:       6 March 2021						

Temperature, Ta (K)

290.1

File No. MA19019/24/0008

764.9

Project No.	AM2a - Site Boundary of the Shek Wu Hui STW (North)					
Date:	6-Jan-21	Next Due Date:	6-Mar-21	Operator:	SK	
Equipment No.:	A-01-24	Model No.:	TE 5170	Serial No.	1659	
		Ambient Condit	ion			

Pressure, Pa (mmHg)

Orifice Transfer Standard Information					
Serial No.	3746         Slope, mc         0.0592         Intercept, bc         -0.02740				
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$			
Next Calibration Date:	17-Jan-21		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} /	mc

		Calibration of	TSP Sampler			
Calibration		Orfice			HVS	
Point	$\Delta H$ (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	[ΔW x (I	Pa/760) x (298/Ta)] <sup>1/2</sup> Y-axis
1	13.3	3.71	63.10	10.2		3.25
2	10.8	3.34	56.91	8.3		2.93
3	8.3	2.93	49.94	6.0		2.49
4	6.2	2.53	43.23	4.1		2.06
5	3.0	1.76	30.21	1.8		1.36
	coefficient* =	<b>0.9992</b> 0, check and recalibrate.	Intercept, bw	-0.412	23	_
From the TSP F	ield Calibration C	<b>Set Point C</b> urve, take Qstd = 43 CFM	alculation			
From the Regres	ssion Equation, the	e "Y" value according to				
		$\mathbf{m}\mathbf{w} \mathbf{x} \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\Delta \mathbf{W}]$	x (Pa/760) x (29	98/Ta)] <sup>1/2</sup>		
Therefore, S	et Point; W = ( my	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298 ) =	4.22		_
Remarks:						
Conducted by:	SK Wong	Signature:	λ.		Date:	6 January 2021
Checked by:	Henry Leung	Signature:	Non		Date:	6 January 2021

Τ

1

File No. MA19019/24/0009

Project No.	AM2a - Site B	oundary of the Sl	nek Wu Hui STW (North)			
Date:	6-N	far-21	Next Due Date:	6-May-21	Operator:	SK
Equipment No.:	A-	01-24	Model No.:	TE 5170	Serial No.	1659
	Ambient Condition					
Temperatu	re, Ta (K)	293	Pressure, Pa (mml	Hg)	764.5	

Orifice Transfer Standard Information					
Serial No.	3864	3864         Slope, mc         0.05846         Intercept, bc         -0.00313			
Last Calibration Date:	11-Jan-21	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$			
Next Calibration Date:	11-Jan-22		$Qstd = \{[\Delta H x ] \}$	(Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} /	mc

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	$\Delta H$ (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)] <sup>1/2</sup> <b>Y-axis</b>
1	13.2	3.67	62.91	10.3	3.25
2	10.8	3.32	56.91	8.3	2.91
3	8.3	2.91	49.90	5.9	2.46
4	6.1	2.50	42.79	4.0	2.02
5	3.0	1.75	30.02	1.8	1.36
	0.0581 coefficient* =	0.9990	Intercept, bw <sup>_</sup>	-0.418	4
		0, check and recalibrate.	-		
		Set Point C	alculation		
From the TSP F	ield Calibration C	urve, take Qstd = 43 CFM			
From the Regree	ssion Equation, the	e "Y" value according to			
		mw x Qstd + bw = $[\Delta W]$	v (Da/760) v ()	08/Ta)1 <sup>1/2</sup>	
		$\lim_{n \to \infty} x \operatorname{Qstu} + \lim_{n \to \infty} - [\Delta w]$	X (1 a/700) X (2)	70/1a)]	
Therefore, S	et Point; W = ( my	$(x = x + bw)^2 x (760 / Pa) x ($	Ta / 298 ) =	4.23	
Remarks:					
Remarks:					
Remarks:					
Remarks: Conducted by:	SK Wong	Signature: Signature:			Date: <u>6 March 2021</u>

F:\Cinotech Solutions\Equipment\Calibration Cert\HVS\new\MA19019\_20210306\_AM2a\_(A-01-24).xls



### **Certificate of Calibration - Wind Monitoring Station**

Description:	BM3 - Control Room at SWHSTW
Manufacturer:	Global Water Instrumentation
Model No.:	WE800 Weather Station
Serial No.:	<u>1517001963</u>
Equipment No.:	<u>SA-03-01</u>
Date of Calibration	<u>29-Oct-2020</u>
Next Due Date	<u>29-Apr-2021</u>

#### 1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V1)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.0	2.1	-0.1
3.5	3.5	0.0

#### 2. Performance check of Wind Direction

Wind Direction (°)		Difference D (°)
Wind Direction Reading (V1)	Marine Compass Value (V1)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

#### **Test Specification:**

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer

2. Performance Wind Direction Test - The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by: \_\_\_\_\_\_ Approved by: \_\_\_\_\_\_\_\_ Wong Shing Kwai Approved by: \_\_\_\_\_\_\_\_\_

APPENDIX D WEATHER INFORMATION

D (	Mean Air	Mean Relative	Precipitation
Date	Temperature (°C)	Humidity (%)	( <b>mm</b> )
1-Mar-21	21.9	81	Trace
2-Mar-21	21.4	75	Trace
3-Mar-21	18.4	81	0.3
4-Mar-21	18.9	87	1
5-Mar-21	20.1	91	Trace
6-Mar-21	20.5	93	1.5
7-Mar-21	19.9	90	0.2
8-Mar-21	19.7	83	0.3
9-Mar-21	20.1	79	0
10-Mar-21	19.8	79	Trace
11-Mar-21	21.0	79	0
12-Mar-21	23.2	77	0
13-Mar-21	22.0	76	Trace
14-Mar-21	21.3	80	0
15-Mar-21	22.4	76	0
16-Mar-21	24.0	78	0
17-Mar-21	24.7	80	Trace
18-Mar-21	23.4	87	0.2
19-Mar-21	24.2	82	Trace
20-Mar-21	25.0	81	0
21-Mar-21	21.2	73	0
22-Mar-21	17.8	61	Trace
23-Mar-21	18.9	61	0
24-Mar-21	20.7	68	0
25-Mar-21	22.1	70	0
26-Mar-21	21.6	75	0
27-Mar-21	24.1	80	0
28-Mar-21	24.8	80	0
29-Mar-21	25.6	82	0
30-Mar-21	26.6	78	0
31-Mar-21	26.5	79	0

### I. General Information from Hong Kong Observatory

\* The above information was extracted from the daily extract of Ta Kwu Ling Station in Hong Kong Observatory Climate Information Service.

#### Time Wind Direction (°) Wind Speed (m/s) Date 1-Mar-21 0:00 211.8 0.1 1-Mar-21 1:00 234.7 1.6 2:00 3.2 1-Mar-21 174.6 1-Mar-21 3:00 4.8 130.5 1-Mar-21 4:00 1.5 4.8 1-Mar-21 5:00 220.2 3.2 1-Mar-21 3.2 6:00 127.0 7:00 201.8 3.2 1-Mar-21 1-Mar-21 8:00 123.5 1.6 1-Mar-21 9:00 3.2 180.6 3.2 1-Mar-21 10:00 48.1 1-Mar-21 11:00 1.6 306.9 1-Mar-21 12:00 252.6 4.8 1-Mar-21 13:00 232.5 4.8 4.8 1-Mar-21 14:00 244.9 1-Mar-21 15:00 289.1 4.8 1-Mar-21 16:00 141.2 4.8 1-Mar-21 17:00 165.1 3.2 4.8 1-Mar-21 18:00 73.4 3.2 1-Mar-21 19:00 73.4 1-Mar-21 20:00 62.8 3.2 21:00 64.7 4.8 1-Mar-21 1-Mar-21 22:00 44.7 4.8 76.4 3.2 1-Mar-21 23:00 0:00 65.3 3.2 2-Mar-21 2-Mar-21 1:00 59.3 1.6 2-Mar-21 2:00 73.4 1.6 3:00 82.4 1.6 2-Mar-21 3.2 2-Mar-21 4:00 74.0 2-Mar-21 5:00 68.6 3.2 2-Mar-21 6:00 68.1 4.8 2-Mar-21 7:00 95.9 1.6 8:00 99.0 2-Mar-21 1.6 9:00 2-Mar-21 109.3 1.6 10:00 2-Mar-21 202.8 1.6

#### Time Wind Direction (°) Wind Speed (m/s) Date 2-Mar-21 11:00 70.4 3.2 2-Mar-21 12:00 104.1 4.8 13:00 108.3 4.8 2-Mar-21 2-Mar-21 14:00 4.8 104.9 2-Mar-21 15:00 67.3 4.8 2-Mar-21 16:00 122.3 4.8 2-Mar-21 3.2 17:00 101.3 18:00 111.8 3.2 2-Mar-21 2-Mar-21 19:00 83.4 0.1 2-Mar-21 91.9 0.1 20:00 21:00 2-Mar-21 32.6 0.1 2-Mar-21 22:00 0.1 76.4 2-Mar-21 23:00 85.4 0.1 3-Mar-21 0:00 102.5 0.1 3-Mar-21 1:00 108.6 0.1 3-Mar-21 2:00 84.6 0.1 3-Mar-21 3:00 57.9 0.1 3-Mar-21 4:00 76.1 0.1 72.5 0.1 3-Mar-21 5:00 3-Mar-21 6:00 111.7 0.1 3-Mar-21 7:00 106.8 0.1 8:00 79.5 0.1 3-Mar-21 3-Mar-21 9:00 3.2 133.6 3-Mar-21 10:00 46.3 0.1 11:00 195.1 1.6 3-Mar-21 12:00 3-Mar-21 165.0 0.1 3-Mar-21 13:00 180.8 0.1 14:00 0.1 3-Mar-21 113.0 3-Mar-21 15:00 122.3 0.1 3-Mar-21 16:00 109.7 0.1 3-Mar-21 17:00 136.0 1.6 3-Mar-21 18:00 0.1 96.6 19:00 95.4 0.1 3-Mar-21 20:00 87.7 0.1 3-Mar-21 21:00 3-Mar-21 86.1 0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
3-Mar-21	22:00	100.7	0.1
3-Mar-21	23:00	76.9	0.1
4-Mar-21	0:00	77.8	0.1
4-Mar-21	1:00	72.7	0.1
4-Mar-21	2:00	63.6	0.1
4-Mar-21	3:00	72.6	0.1
4-Mar-21	4:00	63.8	0.1
4-Mar-21	5:00	61.6	0.1
4-Mar-21	6:00	81.6	0.1
4-Mar-21	7:00	83.0	0.4
4-Mar-21	8:00	42.0	0.4
4-Mar-21	9:00	56.3	0.4
4-Mar-21	10:00	78.9	2.0
4-Mar-21	11:00	65.1	3.6
4-Mar-21	12:00	87.5	3.6
4-Mar-21	13:00	63.4	3.6
4-Mar-21	14:00	159.2	5.2
4-Mar-21	15:00	132.3	5.2
4-Mar-21	16:00	151.1	5.2
4-Mar-21	17:00	44.4	3.6
4-Mar-21	18:00	36.0	5.2
4-Mar-21	19:00	66.3	3.6
4-Mar-21	20:00	63.3	5.2
4-Mar-21	21:00	56.4	3.6
4-Mar-21	22:00	62.1	3.6
4-Mar-21	23:00	104.6	5.2
5-Mar-21	0:00	98.2	5.2
5-Mar-21	1:00	38.4	6.8
5-Mar-21	2:00	68.7	3.6
5-Mar-21	3:00	92.7	3.2
5-Mar-21	4:00	182.8	6.4
5-Mar-21	5:00	116.6	4.8
5-Mar-21	6:00	16.2	3.2
5-Mar-21	7:00	65.5	3.2
5-Mar-21	8:00	40.7	3.2

#### Time Wind Direction (°) Wind Speed (m/s) Date 5-Mar-21 9:00 188.0 1.6 76.1 5-Mar-21 10:00 1.6 11:00 88.3 3.2 5-Mar-21 5-Mar-21 12:00 85.3 1.6 5-Mar-21 13:00 116.1 1.6 5-Mar-21 14:00 53.6 3.2 5-Mar-21 15:00 66.5 1.6 16:00 68.0 1.6 5-Mar-21 5-Mar-21 17:00 89.4 1.6 5-Mar-21 88.3 0.1 18:00 70.3 5-Mar-21 19:00 0.1 5-Mar-21 20:00 84.4 0.1 21:00 79.6 0.1 5-Mar-21 5-Mar-21 22:00 137.0 0.1 5-Mar-21 23:00 119.3 0.1 6-Mar-21 0:00 119.1 0.1 6-Mar-21 1:00 56.3 0.1 6-Mar-21 2:00 76.2 0.1 6-Mar-21 3:00 120.2 1.6 93.5 6-Mar-21 4:00 1.6 6-Mar-21 5:00 164.6 3.2 6:00 81.2 3.2 6-Mar-21 7:00 115.5 3.2 6-Mar-21 3.2 6-Mar-21 8:00 106.0 9:00 93.4 3.2 6-Mar-21 6-Mar-21 10:00 79.5 4.8 98.8 6-Mar-21 11:00 4.8 12:00 108.1 4.8 6-Mar-21 6-Mar-21 13:00 137.3 1.6 6-Mar-21 14:00 104.3 3.2 6-Mar-21 15:00 115.1 1.6 6-Mar-21 16:00 105.5 1.6 17:00 6-Mar-21 121.0 1.6 0.1 6-Mar-21 18:00 75.6 19:00 6-Mar-21 130.3 0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
6-Mar-21	20:00	146.5	0.1
6-Mar-21	21:00	63.2	0.1
6-Mar-21	22:00	140.6	0.1
6-Mar-21	23:00	74.0	0.1
7-Mar-21	0:00	62.6	1.6
7-Mar-21	1:00	59.0	1.6
7-Mar-21	2:00	94.6	3.2
7-Mar-21	3:00	76.5	4.8
7-Mar-21	4:00	93.7	3.2
7-Mar-21	5:00	96.1	1.6
7-Mar-21	6:00	121.9	3.2
7-Mar-21	7:00	78.9	1.6
7-Mar-21	8:00	119.6	1.6
7-Mar-21	9:00	87.3	3.2
7-Mar-21	10:00	74.1	0.8
7-Mar-21	11:00	64.0	0.8
7-Mar-21	12:00	170.6	0.8
7-Mar-21	13:00	115.9	2.4
7-Mar-21	14:00	65.5	4.0
7-Mar-21	15:00	158.4	4.0
7-Mar-21	16:00	162.9	4.0
7-Mar-21	17:00	62.0	5.6
7-Mar-21	18:00	93.4	5.6
7-Mar-21	19:00	125.9	5.6
7-Mar-21	20:00	77.6	4.0
7-Mar-21	21:00	92.5	5.6
7-Mar-21	22:00	77.0	4.0
7-Mar-21	23:00	86.9	5.6
8-Mar-21	0:00	45.6	4.0
8-Mar-21	1:00	80.8	4.0
8-Mar-21	2:00	68.6	5.6
8-Mar-21	3:00	92.9	5.6
8-Mar-21	4:00	50.6	7.2
8-Mar-21	5:00	63.3	4.0
8-Mar-21	6:00	88.2	1.6

Date	Time	Wind Direction (°)	Wind Speed (m/s)
8-Mar-21	7:00	109.3	1.6
8-Mar-21	8:00	62.1	3.2
8-Mar-21	9:00	115.2	4.4
8-Mar-21	10:00	117.5	8.1
8-Mar-21	11:00	133.4	6.4
8-Mar-21	12:00	90.0	6.1
8-Mar-21	13:00	69.4	6.1
8-Mar-21	14:00	164.2	4.4
8-Mar-21	15:00	110.9	4.4
8-Mar-21	16:00	124.9	4.4
8-Mar-21	17:00	157.7	4.8
8-Mar-21	18:00	134.5	4.8
8-Mar-21	19:00	141.5	6.4
8-Mar-21	20:00	117.5	6.4
8-Mar-21	21:00	146.3	8.1
8-Mar-21	22:00	47.6	4.4
8-Mar-21	23:00	30.1	4.8
9-Mar-21	0:00	64.8	4.8
9-Mar-21	1:00	75.8	6.4
9-Mar-21	2:00	93.1	3.2
9-Mar-21	3:00	90.2	4.8
9-Mar-21	4:00	115.8	1.6
9-Mar-21	5:00	65.2	3.2
9-Mar-21	6:00	207.3	3.2
9-Mar-21	7:00	60.9	1.6
9-Mar-21	8:00	113.4	1.6
9-Mar-21	9:00	149.4	1.6
9-Mar-21	10:00	157.5	1.6
9-Mar-21	11:00	156.1	1.6
9-Mar-21	12:00	224.2	0.1
9-Mar-21	13:00	254.8	0.1
9-Mar-21	14:00	218.2	0.1
9-Mar-21	15:00	214.5	0.1
9-Mar-21	16:00	226.7	0.1
9-Mar-21	17:00	136.7	1.6

#### Time Wind Direction (°) Wind Speed (m/s) Date 9-Mar-21 18:00 76.3 1.6 9-Mar-21 19:00 82.0 3.2 75.7 9-Mar-21 20:00 1.6 9-Mar-21 21:00 86.2 0.0 9-Mar-21 22:00 89.1 0.1 9-Mar-21 23:00 80.5 0.1 10-Mar-21 0:00 59.1 0.1 10-Mar-21 1:00 74.9 1.6 10-Mar-21 2:00 213.9 0.1 179.7 1.6 10-Mar-21 3:00 10-Mar-21 4:00 34.2 0.1 10-Mar-21 5:00 0.1 102.7 53.8 0.1 10-Mar-21 6:00 10-Mar-21 7:00 81.8 0.1 10-Mar-21 8:00 68.5 0.1 10-Mar-21 9:00 114.1 0.1 10-Mar-21 10:00 155.7 0.1 10-Mar-21 11:00 15.8 0.1 10-Mar-21 12:00 178.1 0.1 10-Mar-21 13:00 204.5 1.6 10-Mar-21 14:00 27.0 0.1 0.1 10-Mar-21 15:00 221.9 33.4 1.6 10-Mar-21 16:00 10-Mar-21 17:00 92.3 0.1 18:00 71.8 1.6 10-Mar-21 10-Mar-21 19:00 66.6 0.1 10-Mar-21 20:00 62.0 0.1 10-Mar-21 21:00 65.5 1.6 10-Mar-21 22:00 35.8 0.1 10-Mar-21 23:00 66.3 0.1 11-Mar-21 0:00 69.3 0.1 11-Mar-21 1:00 64.9 0.1 0.1 11-Mar-21 2:00 43.0 11-Mar-21 3:00 73.1 0.1

#### II. Mean Wind Speed and Wind Direction

11-Mar-21

30.2

4:00

1.6

Date	Time	Wind Direction (°)	Wind Speed (m/s)
11-Mar-21	5:00	76.1	0.1
11-Mar-21	6:00	104.4	0.1
11-Mar-21	7:00	70.2	0.1
11-Mar-21	8:00	78.0	0.1
11-Mar-21	9:00	70.6	0.1
11-Mar-21	10:00	64.7	0.1
11-Mar-21	11:00	67.9	0.1
11-Mar-21	12:00	141.0	0.1
11-Mar-21	13:00	93.0	0.1
11-Mar-21	14:00	63.3	0.1
11-Mar-21	15:00	100.9	0.1
11-Mar-21	16:00	43.8	1.6
11-Mar-21	17:00	122.0	1.6
11-Mar-21	18:00	76.7	0.1
11-Mar-21	19:00	105.3	0.1
11-Mar-21	20:00	96.7	0.1
11-Mar-21	21:00	97.8	0.1
11-Mar-21	22:00	76.6	0.1
11-Mar-21	23:00	114.2	0.1
12-Mar-21	0:00	130.6	0.1
12-Mar-21	1:00	155.4	0.1
12-Mar-21	2:00	99.9	0.1
12-Mar-21	3:00	89.2	0.1
12-Mar-21	4:00	145.1	0.1
12-Mar-21	5:00	89.3	0.1
12-Mar-21	6:00	126.6	0.1
12-Mar-21	7:00	93.5	0.1
12-Mar-21	8:00	103.9	0.1
12-Mar-21	9:00	117.8	0.1
12-Mar-21	10:00	90.1	0.4
12-Mar-21	11:00	116.3	2.0
12-Mar-21	12:00	131.2	2.0
12-Mar-21	13:00	217.9	2.0
12-Mar-21	14:00	200.8	2.0
12-Mar-21	15:00	141.1	2.0

Date	Time	Wind Direction (°)	Wind Speed (m/s)
12-Mar-21	16:00	168.3	2.0
12-Mar-21	17:00	124.6	0.4
12-Mar-21	18:00	110.6	2.0
12-Mar-21	19:00	95.2	0.4
12-Mar-21	20:00	41.1	0.4
12-Mar-21	21:00	75.8	0.4
12-Mar-21	22:00	78.6	0.4
12-Mar-21	23:00	76.8	0.4
13-Mar-21	0:00	56.7	0.4
13-Mar-21	1:00	76.8	0.4
13-Mar-21	2:00	81.4	0.4
13-Mar-21	3:00	64.9	0.4
13-Mar-21	4:00	86.6	0.4
13-Mar-21	5:00	73.6	2.0
13-Mar-21	6:00	76.7	0.4
13-Mar-21	7:00	83.0	0.4
13-Mar-21	8:00	102.2	0.4
13-Mar-21	9:00	201.4	0.4
13-Mar-21	10:00	75.1	0.4
13-Mar-21	11:00	146.4	2.0
13-Mar-21	12:00	115.0	2.0
13-Mar-21	13:00	129.7	2.0
13-Mar-21	14:00	106.0	2.0
13-Mar-21	15:00	126.9	0.4
13-Mar-21	16:00	90.3	0.4
13-Mar-21	17:00	145.6	2.0
13-Mar-21	18:00	76.6	2.0
13-Mar-21	19:00	132.8	2.0
13-Mar-21	20:00	194.6	2.0
13-Mar-21	21:00	42.2	0.4
13-Mar-21	22:00	74.2	3.2
13-Mar-21	23:00	77.2	3.2
14-Mar-21	0:00	74.8	1.6
14-Mar-21	1:00	5.4	1.6
14-Mar-21	2:00	41.0	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
14-Mar-21	3:00	67.8	1.6
14-Mar-21	4:00	61.2	1.6
14-Mar-21	5:00	87.3	1.6
14-Mar-21	6:00	70.8	1.6
14-Mar-21	7:00	74.7	1.6
14-Mar-21	8:00	11.1	1.6
14-Mar-21	9:00	70.0	1.6
14-Mar-21	10:00	88.5	1.6
14-Mar-21	11:00	162.4	1.6
14-Mar-21	12:00	55.4	0.1
14-Mar-21	13:00	41.9	0.1
14-Mar-21	14:00	61.0	0.1
14-Mar-21	15:00	28.4	0.1
14-Mar-21	16:00	46.7	0.1
14-Mar-21	17:00	111.1	0.1
14-Mar-21	18:00	104.9	0.1
14-Mar-21	19:00	73.5	0.1
14-Mar-21	20:00	114.4	0.1
14-Mar-21	21:00	118.2	0.1
14-Mar-21	22:00	83.6	0.1
14-Mar-21	23:00	55.9	0.1
15-Mar-21	0:00	57.4	0.1
15-Mar-21	1:00	70.9	0.1
15-Mar-21	2:00	63.5	0.1
15-Mar-21	3:00	60.2	0.1
15-Mar-21	4:00	209.6	0.1
15-Mar-21	5:00	19.7	0.1
15-Mar-21	6:00	69.1	0.1
15-Mar-21	7:00	37.1	1.6
15-Mar-21	8:00	67.2	0.1
15-Mar-21	9:00	87.6	0.1
15-Mar-21	10:00	115.3	0.1
15-Mar-21	11:00	203.7	0.1
15-Mar-21	12:00	103.7	0.1
15-Mar-21	13:00	107.4	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
15-Mar-21	14:00	165.7	0.1
15-Mar-21	15:00	95.4	0.1
15-Mar-21	16:00	149.2	0.1
15-Mar-21	17:00	83.6	0.1
15-Mar-21	18:00	103.9	0.1
15-Mar-21	19:00	77.0	0.1
15-Mar-21	20:00	152.5	0.1
15-Mar-21	21:00	97.5	0.1
15-Mar-21	22:00	81.7	0.1
15-Mar-21	23:00	79.3	0.1
16-Mar-21	0:00	67.3	0.1
16-Mar-21	1:00	96.8	0.1
16-Mar-21	2:00	104.8	0.1
16-Mar-21	3:00	96.2	0.1
16-Mar-21	4:00	79.9	0.1
16-Mar-21	5:00	107.0	0.1
16-Mar-21	6:00	65.0	0.1
16-Mar-21	7:00	61.4	1.6
16-Mar-21	8:00	51.1	0.1
16-Mar-21	9:00	119.4	0.1
16-Mar-21	10:00	118.8	1.6
16-Mar-21	11:00	131.0	3.2
16-Mar-21	12:00	139.2	3.2
16-Mar-21	13:00	86.0	3.2
16-Mar-21	14:00	166.6	3.2
16-Mar-21	15:00	147.5	3.2
16-Mar-21	16:00	168.0	3.2
16-Mar-21	17:00	90.2	4.8
16-Mar-21	18:00	82.0	3.2
16-Mar-21	19:00	117.8	4.8
16-Mar-21	20:00	94.3	3.2
16-Mar-21	21:00	114.9	3.2
16-Mar-21	22:00	85.0	1.6
16-Mar-21	23:00	96.9	3.2
17-Mar-21	0:00	107.5	4.8

Date	Time	Wind Direction (°)	Wind Speed (m/s)
17-Mar-21	1:00	78.6	3.2
17-Mar-21	2:00	91.5	3.2
17-Mar-21	3:00	101.4	3.2
17-Mar-21	4:00	74.5	1.6
17-Mar-21	5:00	112.7	3.2
17-Mar-21	6:00	56.5	1.6
17-Mar-21	7:00	60.3	0.1
17-Mar-21	8:00	65.8	1.6
17-Mar-21	9:00	76.5	3.2
17-Mar-21	10:00	140.1	4.8
17-Mar-21	11:00	69.3	3.2
17-Mar-21	12:00	63.0	3.2
17-Mar-21	13:00	71.8	3.2
17-Mar-21	14:00	93.1	3.2
17-Mar-21	15:00	98.7	1.6
17-Mar-21	16:00	120.4	1.6
17-Mar-21	17:00	88.7	0.0
17-Mar-21	18:00	75.4	1.6
17-Mar-21	19:00	81.9	0.1
17-Mar-21	20:00	69.8	0.1
17-Mar-21	21:00	85.8	0.1
17-Mar-21	22:00	66.6	0.1
17-Mar-21	23:00	107.3	0.1
18-Mar-21	0:00	49.5	0.1
18-Mar-21	1:00	88.4	1.6
18-Mar-21	2:00	81.9	0.1
18-Mar-21	3:00	72.3	0.1
18-Mar-21	4:00	110.5	1.6
18-Mar-21	5:00	83.9	0.1
18-Mar-21	6:00	63.4	1.6
18-Mar-21	7:00	82.0	1.6
18-Mar-21	8:00	110.0	0.1
18-Mar-21	9:00	77.9	1.6
18-Mar-21	10:00	185.5	0.1
18-Mar-21	11:00	137.4	1.6

Date	Time	Wind Direction (°)	Wind Speed (m/s)
18-Mar-21	12:00	183.0	1.6
18-Mar-21	13:00	163.2	0.1
18-Mar-21	14:00	94.7	0.1
18-Mar-21	15:00	109.5	0.1
18-Mar-21	16:00	90.5	0.1
18-Mar-21	17:00	88.0	0.1
18-Mar-21	18:00	64.0	0.1
18-Mar-21	19:00	206.7	0.1
18-Mar-21	20:00	74.3	0.1
18-Mar-21	21:00	110.8	0.1
18-Mar-21	22:00	81.7	0.1
18-Mar-21	23:00	54.7	0.1
19-Mar-21	0:00	88.0	0.1
19-Mar-21	1:00	52.4	0.1
19-Mar-21	2:00	74.6	0.1
19-Mar-21	3:00	82.9	0.1
19-Mar-21	4:00	48.0	0.1
19-Mar-21	5:00	76.4	0.1
19-Mar-21	6:00	83.8	0.1
19-Mar-21	7:00	73.2	0.1
19-Mar-21	8:00	113.5	0.1
19-Mar-21	9:00	69.8	0.1
19-Mar-21	10:00	88.6	0.1
19-Mar-21	11:00	65.7	0.1
19-Mar-21	12:00	76.2	0.1
19-Mar-21	13:00	84.4	0.1
19-Mar-21	14:00	43.3	1.6
19-Mar-21	15:00	70.3	1.6
19-Mar-21	16:00	182.9	0.1
19-Mar-21	17:00	118.2	0.1
19-Mar-21	18:00	129.2	0.1
19-Mar-21	19:00	94.8	0.1
19-Mar-21	20:00	76.5	0.1
19-Mar-21	21:00	74.7	0.1
19-Mar-21	22:00	71.6	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
19-Mar-21	23:00	68.7	0.1
20-Mar-21	0:00	76.3	0.1
20-Mar-21	1:00	87.3	0.1
20-Mar-21	2:00	21.1	0.1
20-Mar-21	3:00	97.7	1.6
20-Mar-21	4:00	77.6	0.1
20-Mar-21	5:00	52.7	0.1
20-Mar-21	6:00	52.8	0.1
20-Mar-21	7:00	64.0	0.1
20-Mar-21	8:00	242.1	0.1
20-Mar-21	9:00	102.8	0.1
20-Mar-21	10:00	69.8	0.1
20-Mar-21	11:00	130.5	0.1
20-Mar-21	12:00	88.9	0.1
20-Mar-21	13:00	70.0	0.1
20-Mar-21	14:00	86.4	0.1
20-Mar-21	15:00	82.3	0.1
20-Mar-21	16:00	66.5	0.1
20-Mar-21	17:00	155.7	0.1
20-Mar-21	18:00	94.3	0.1
20-Mar-21	19:00	189.2	0.1
20-Mar-21	20:00	70.2	0.1
20-Mar-21	21:00	83.9	0.1
20-Mar-21	22:00	87.8	0.1
20-Mar-21	23:00	123.1	0.1
21-Mar-21	0:00	106.7	0.1
21-Mar-21	1:00	78.9	0.1
21-Mar-21	2:00	93.4	0.1
21-Mar-21	3:00	93.3	0.1
21-Mar-21	4:00	65.3	0.1
21-Mar-21	5:00	87.3	0.1
21-Mar-21	6:00	143.3	0.1
21-Mar-21	7:00	156.9	0.1
21-Mar-21	8:00	100.0	0.1
21-Mar-21	9:00	49.5	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
21-Mar-21	10:00	102.5	0.1
21-Mar-21	11:00	67.3	0.1
21-Mar-21	12:00	117.7	1.6
21-Mar-21	13:00	133.6	1.6
21-Mar-21	14:00	135.6	3.2
21-Mar-21	15:00	58.7	3.2
21-Mar-21	16:00	126.3	4.8
21-Mar-21	17:00	106.8	1.6
21-Mar-21	18:00	112.6	1.6
21-Mar-21	19:00	99.7	0.1
21-Mar-21	20:00	127.2	0.1
21-Mar-21	21:00	76.0	1.6
21-Mar-21	22:00	76.8	3.2
21-Mar-21	23:00	64.7	3.2
22-Mar-21	0:00	67.6	4.8
22-Mar-21	1:00	22.6	4.8
22-Mar-21	2:00	45.0	8.1
22-Mar-21	3:00	63.9	4.8
22-Mar-21	4:00	61.0	3.2
22-Mar-21	5:00	87.7	3.2
22-Mar-21	6:00	31.1	0.1
22-Mar-21	7:00	107.9	0.1
22-Mar-21	8:00	125.8	0.1
22-Mar-21	9:00	134.6	0.1
22-Mar-21	10:00	284.8	0.1
22-Mar-21	11:00	283.3	0.1
22-Mar-21	12:00	298.1	0.1
22-Mar-21	13:00	261.1	0.1
22-Mar-21	14:00	271.4	0.1
22-Mar-21	15:00	259.6	0.1
22-Mar-21	16:00	273.9	1.6
22-Mar-21	17:00	281.4	0.1
22-Mar-21	18:00	95.4	0.1
22-Mar-21	19:00	111.8	0.1
22-Mar-21	20:00	100.2	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
22-Mar-21	21:00	83.4	0.1
22-Mar-21	22:00	105.4	0.1
22-Mar-21	23:00	26.1	0.1
23-Mar-21	0:00	116.4	0.1
23-Mar-21	1:00	54.7	1.6
23-Mar-21	2:00	71.8	1.6
23-Mar-21	3:00	168.7	1.6
23-Mar-21	4:00	240.5	3.2
23-Mar-21	5:00	235.5	3.2
23-Mar-21	6:00	293.8	3.2
23-Mar-21	7:00	124.2	3.2
23-Mar-21	8:00	94.0	3.2
23-Mar-21	9:00	259.1	4.8
23-Mar-21	10:00	281.3	4.8
23-Mar-21	11:00	254.2	4.4
23-Mar-21	12:00	293.2	4.4
23-Mar-21	13:00	244.2	1.6
23-Mar-21	14:00	249.7	3.2
23-Mar-21	15:00	274.9	3.2
23-Mar-21	16:00	309.7	3.2
23-Mar-21	17:00	163.1	1.6
23-Mar-21	18:00	68.4	0.1
23-Mar-21	19:00	104.2	0.1
23-Mar-21	20:00	97.7	0.1
23-Mar-21	21:00	116.5	0.1
23-Mar-21	22:00	103.1	0.1
23-Mar-21	23:00	210.6	1.6
24-Mar-21	0:00	67.5	1.6
24-Mar-21	1:00	105.1	1.6
24-Mar-21	2:00	48.8	0.1
24-Mar-21	3:00	107.2	0.1
24-Mar-21	4:00	92.9	1.6
24-Mar-21	5:00	110.6	0.1
24-Mar-21	6:00	76.0	0.1
24-Mar-21	7:00	146.1	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
24-Mar-21	8:00	77.5	0.1
24-Mar-21	9:00	77.8	1.6
24-Mar-21	10:00	78.7	3.2
24-Mar-21	11:00	96.1	3.2
24-Mar-21	12:00	117.9	4.8
24-Mar-21	13:00	172.1	4.8
24-Mar-21	14:00	109.1	4.8
24-Mar-21	15:00	90.7	3.2
24-Mar-21	16:00	72.5	1.6
24-Mar-21	17:00	158.7	4.8
24-Mar-21	18:00	117.5	4.8
24-Mar-21	19:00	96.2	4.8
24-Mar-21	20:00	66.3	3.2
24-Mar-21	21:00	103.4	3.2
24-Mar-21	22:00	158.7	3.2
24-Mar-21	23:00	55.2	3.2
25-Mar-21	0:00	212.9	1.6
25-Mar-21	1:00	114.1	1.6
25-Mar-21	2:00	99.1	1.6
25-Mar-21	3:00	113.3	3.2
25-Mar-21	4:00	118.8	0.1
25-Mar-21	5:00	86.9	0.1
25-Mar-21	6:00	92.4	0.1
25-Mar-21	7:00	75.1	0.1
25-Mar-21	8:00	59.6	0.1
25-Mar-21	9:00	75.4	0.1
25-Mar-21	10:00	88.4	0.1
25-Mar-21	11:00	72.9	0.1
25-Mar-21	12:00	129.7	0.1
25-Mar-21	13:00	203.0	0.1
25-Mar-21	14:00	107.1	0.1
25-Mar-21	15:00	145.3	0.1
25-Mar-21	16:00	83.1	0.1
25-Mar-21	17:00	70.2	0.1
25-Mar-21	18:00	89.4	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
25-Mar-21	19:00	101.5	0.1
25-Mar-21	20:00	146.8	0.1
25-Mar-21	21:00	91.2	0.1
25-Mar-21	22:00	75.2	0.1
25-Mar-21	23:00	84.5	0.1
26-Mar-21	0:00	58.6	0.1
26-Mar-21	1:00	77.1	0.1
26-Mar-21	2:00	81.2	0.1
26-Mar-21	3:00	74.5	0.1
26-Mar-21	4:00	121.9	0.1
26-Mar-21	5:00	90.0	0.1
26-Mar-21	6:00	163.6	0.1
26-Mar-21	7:00	96.9	0.1
26-Mar-21	8:00	81.3	0.1
26-Mar-21	9:00	69.8	0.1
26-Mar-21	10:00	68.0	0.1
26-Mar-21	11:00	63.5	1.6
26-Mar-21	12:00	71.9	1.6
26-Mar-21	13:00	108.5	1.6
26-Mar-21	14:00	73.2	1.6
26-Mar-21	15:00	88.9	1.6
26-Mar-21	16:00	91.6	1.6
26-Mar-21	17:00	85.7	1.6
26-Mar-21	18:00	164.6	1.6
26-Mar-21	19:00	64.0	0.1
26-Mar-21	20:00	73.9	0.1
26-Mar-21	21:00	105.5	0.1
26-Mar-21	22:00	71.9	0.1
26-Mar-21	23:00	84.9	0.1
27-Mar-21	0:00	73.9	0.1
27-Mar-21	1:00	83.8	0.1
27-Mar-21	2:00	70.2	0.1
27-Mar-21	3:00	141.0	1.6
27-Mar-21	4:00	70.2	1.6
27-Mar-21	5:00	81.7	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
27-Mar-21	6:00	80.7	0.1
27-Mar-21	7:00	54.9	0.1
27-Mar-21	8:00	96.6	0.1
27-Mar-21	9:00	132.9	0.1
27-Mar-21	10:00	109.4	1.6
27-Mar-21	11:00	139.0	0.1
27-Mar-21	12:00	132.9	0.1
27-Mar-21	13:00	170.4	0.1
27-Mar-21	14:00	233.2	0.1
27-Mar-21	15:00	162.0	0.1
27-Mar-21	16:00	183.3	0.1
27-Mar-21	17:00	75.9	0.1
27-Mar-21	18:00	73.7	0.1
27-Mar-21	19:00	67.4	0.1
27-Mar-21	20:00	87.2	0.1
27-Mar-21	21:00	75.2	0.1
27-Mar-21	22:00	62.0	0.1
27-Mar-21	23:00	47.9	0.1
28-Mar-21	0:00	66.3	0.1
28-Mar-21	1:00	79.5	0.1
28-Mar-21	2:00	200.5	0.1
28-Mar-21	3:00	40.7	0.1
28-Mar-21	4:00	61.2	0.1
28-Mar-21	5:00	47.3	0.1
28-Mar-21	6:00	35.7	0.1
28-Mar-21	7:00	252.4	0.1
28-Mar-21	8:00	33.1	0.1
28-Mar-21	9:00	68.4	0.1
28-Mar-21	10:00	319.7	0.1
28-Mar-21	11:00	191.3	0.1
28-Mar-21	12:00	32.0	0.1
28-Mar-21	13:00	58.5	0.1
28-Mar-21	14:00	80.9	0.1
28-Mar-21	15:00	104.1	0.1
28-Mar-21	16:00	74.4	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
28-Mar-21	17:00	215.1	0.1
28-Mar-21	18:00	53.8	0.1
28-Mar-21	19:00	58.9	0.1
28-Mar-21	20:00	78.8	0.1
28-Mar-21	21:00	44.2	0.1
28-Mar-21	22:00	58.2	0.1
28-Mar-21	23:00	76.8	0.1
29-Mar-21	0:00	59.9	0.1
29-Mar-21	1:00	75.4	0.1
29-Mar-21	2:00	125.2	0.1
29-Mar-21	3:00	99.6	0.1
29-Mar-21	4:00	102.0	0.1
29-Mar-21	5:00	75.5	0.1
29-Mar-21	6:00	112.4	0.1
29-Mar-21	7:00	128.0	0.1
29-Mar-21	8:00	86.3	0.1
29-Mar-21	9:00	147.5	0.1
29-Mar-21	10:00	112.8	0.1
29-Mar-21	11:00	111.3	0.1
29-Mar-21	12:00	106.9	1.6
29-Mar-21	13:00	151.5	1.6
29-Mar-21	14:00	88.1	1.6
29-Mar-21	15:00	150.0	3.2
29-Mar-21	16:00	123.4	0.1
29-Mar-21	17:00	110.3	3.2
29-Mar-21	18:00	148.3	3.2
29-Mar-21	19:00	66.0	1.6
29-Mar-21	20:00	142.1	4.8
29-Mar-21	21:00	130.8	3.2
29-Mar-21	22:00	105.3	0.1
29-Mar-21	23:00	89.9	1.6
30-Mar-21	0:00	111.7	0.1
30-Mar-21	1:00	96.0	0.1
30-Mar-21	2:00	96.3	0.1
30-Mar-21	3:00	83.1	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
30-Mar-21	4:00	72.7	0.1
30-Mar-21	5:00	52.2	0.1
30-Mar-21	6:00	88.9	0.1
30-Mar-21	7:00	97.1	0.1
30-Mar-21	8:00	58.5	0.1
30-Mar-21	9:00	103.5	1.6
30-Mar-21	10:00	76.9	3.2
30-Mar-21	11:00	61.6	3.2
30-Mar-21	12:00	61.7	4.8
30-Mar-21	13:00	86.4	4.8
30-Mar-21	14:00	63.1	3.2
30-Mar-21	15:00	74.1	1.6
30-Mar-21	16:00	67.8	3.2
30-Mar-21	17:00	81.2	1.6
30-Mar-21	18:00	81.3	1.6
30-Mar-21	19:00	29.4	1.6
30-Mar-21	20:00	66.6	1.6
30-Mar-21	21:00	61.4	1.6
30-Mar-21	22:00	54.4	1.6
30-Mar-21	23:00	61.3	3.2
31-Mar-21	0:00	57.8	1.6
31-Mar-21	1:00	60.6	1.6
31-Mar-21	3:00	45.0	1.6
31-Mar-21	4:00	41.6	1.6
31-Mar-21	5:00	60.7	3.2
31-Mar-21	6:00	62.2	4.8
31-Mar-21	7:00	25.8	4.8
31-Mar-21	8:00	70.9	8.1
31-Mar-21	9:00	283.6	4.8
31-Mar-21	10:00	52.5	4.8
31-Mar-21	11:00	98.6	4.8
31-Mar-21	12:00	136.2	5.1
31-Mar-21	13:00	86.3	4.4
31-Mar-21	14:00	83.5	4.8
31-Mar-21	15:00	69.7	3.2

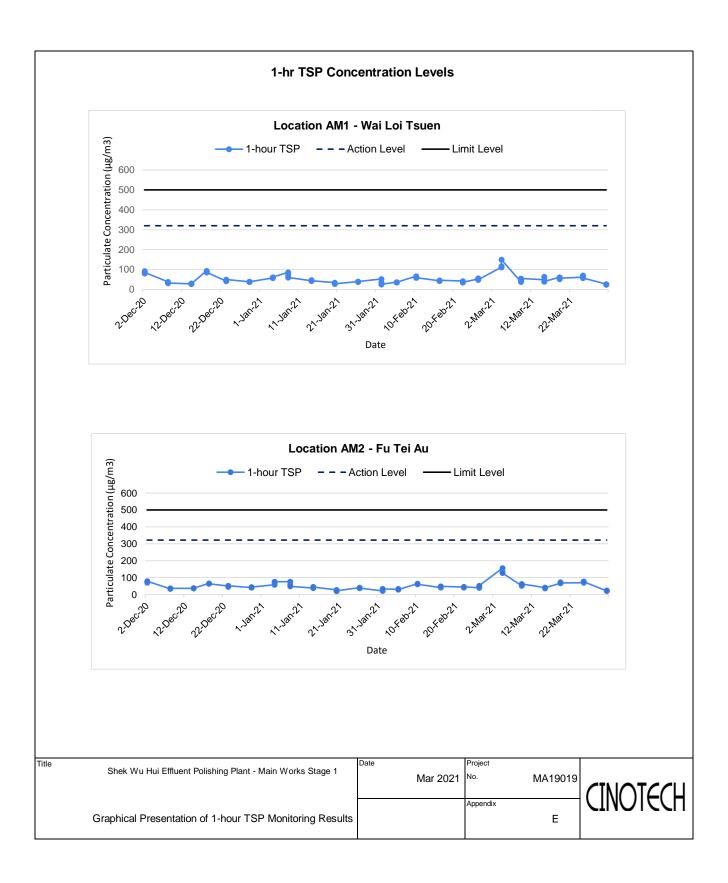
Date	Time	Wind Direction (°)	Wind Speed (m/s)
31-Mar-21	16:00	170.2	4.4
31-Mar-21	17:00	222.7	3.2
31-Mar-21	18:00	223.5	3.2
31-Mar-21	19:00	287.5	4.8
31-Mar-21	20:00	286.9	3.2
31-Mar-21	21:00	142.4	1.6
31-Mar-21	22:00	30.4	1.6
31-Mar-21	23:00	30.9	1.6

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Location AM1	- Wai Loi T	suen	
Date	Time	Weather	Particulate Concentration (µg/m <sup>3</sup> )
4-Mar-21	10:20	Cloudy	112.2
4-Mar-21	11:20	Cloudy	116.6
4-Mar-21	12:20	Cloudy	149.6
9-Mar-21	9:05	Sunny	37.8
9-Mar-21	10:05	Sunny	48.3
9-Mar-21	11:05	Sunny	54.6
15-Mar-21	9:30	Sunny	48.4
15-Mar-21	10:30	Sunny	63.8
15-Mar-21	11:30	Sunny	39.6
19-Mar-21	9:20	Sunny	60.9
19-Mar-21	10:20	Sunny	52.5
19-Mar-21	11:20	Sunny	56.7
25-Mar-21	9:15	Sunny	62.0
25-Mar-21	10:15	Sunny	70.0
25-Mar-21	11:15	Sunny	58.0
31-Mar-21	9:10	Sunny	26.4
31-Mar-21	10:10	Sunny	26.4
31-Mar-21	11:10	Sunny	24.2
		Average	61.6
		Maximum	149.6
		Minimum	24.2

# Appendix E - 1-hour TSP Monitoring Results

Location AM2	: - Fu Tei Au		
Date	Time	Weather	Particulate Concentration (µg/m <sup>3</sup> )
4-Mar-21	13:40	Cloudy	156.2
4-Mar-21	14:40	Cloudy	134.2
4-Mar-21	15:40	Cloudy	127.6
9-Mar-21	13:00	Sunny	52.5
9-Mar-21	14:00	Sunny	56.7
9-Mar-21	15:00	Sunny	63.0
15-Mar-21	13:35	Sunny	41.8
15-Mar-21	14:35	Sunny	37.4
15-Mar-21	15:35	Sunny	39.6
19-Mar-21	13:10	Sunny	67.2
19-Mar-21	14:10	Sunny	73.5
19-Mar-21	15:10	Sunny	69.3
25-Mar-21	13:30	Sunny	70.0
25-Mar-21	14:30	Sunny	78.0
25-Mar-21	15:30	Sunny	76.0
31-Mar-21	13:20	Sunny	22.0
31-Mar-21	14:20	Sunny	24.2
31-Mar-21	15:20	Sunny	22.0
		Average	67.3
		Maximum	156.2
		Minimum	22.0



APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

# Appendix F - 24-hour TSP Monitoring Results

Start Date	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m <sup>3</sup> /min.)	Av. Flow	Total vol.	Conc. (µ
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	g/m <sup>3</sup> )
1-Mar-21	Cloudy	294.7	764.0	2.6903	2.7910	0.1007	9932.8	9956.8	24.0	1.21	1.21	1.21	1739.3	57.9
6-Mar-21	Sunny	293.2	764.2	2.6859	2.7897	0.1037	9956.8	9980.8	24.0	1.22	1.22	1.22	1752.9	59.2
12-Mar-21	Sunny	295.6	764.9	2.6881	2.7687	0.0806	9980.8	10004.8	24.0	1.21	1.21	1.21	1747.1	46.2
18-Mar-21	Sunny	296.8	760.6	2.6618	2.8045	0.1427	10004.8	10028.8	24.0	1.21	1.21	1.21	1740.1	82.0
24-Mar-21	Sunny	294.4	763.4	2.6716	2.7892	0.1177	10028.8	10052.8	24.0	1.22	1.21	1.21	1748.8	67.3
30-Mar-21	Sunny	299.6	755.8	2.6807	2.7544	0.0738	10052.8	10076.8	24.0	1.20	1.20	1.20	1727.1	42.7
													Min	42.7
													Max	82.0
													Average	59.2

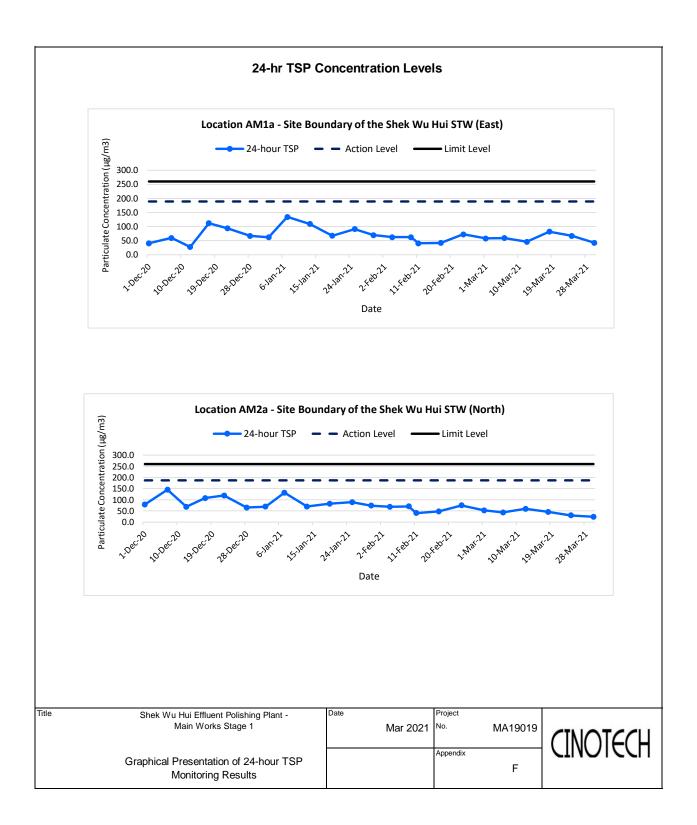
Location AM1a - Site Boundary of the Shek Wu Hui STW (East)

## Location AM2a - Site Boundary of the Shek Wu Hui STW (North)

Start Date	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	(m <sup>3</sup> /min.)	Av. Flow	Total vol.	Conc. (µ
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	g/m <sup>3</sup> )
1-Mar-21	Cloudy	294.7	764.0	2.6902	2.7817	0.0914	20127.3	20151.3	24.0	1.21	1.21	1.21	1742.0	52.5
6-Mar-21	Sunny	293.2	764.2	2.6818	2.7581	0.0763	20151.3	20175.3	24.0	1.22	1.22	1.22	1751.8	43.6
12-Mar-21	Sunny	295.6	764.9	2.6805	2.7844	0.1039	20175.3	20199.3	24.0	1.21	1.21	1.21	1746.6	59.5
18-Mar-21	Sunny	296.8	760.6	2.6707	2.7503	0.0796	20199.3	20223.3	24.0	1.21	1.21	1.21	1739.5	45.8
24-Mar-21	Sunny	294.4	763.4	2.6985	2.7516	0.0531	20223.3	20247.3	24.0	1.22	1.21	1.21	1748.1	30.4
30-Mar-21	Sunny	299.6	755.8	2.6155	2.6568	0.0413	20247.3	20271.3	24.0	1.20	1.20	1.20	1728.3	23.9
													Min	23.9
													Max	59.5

Average

42.6



APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING



0024993

Customer :		Object 1 : BSWA 308 SLM		
Cinotech Consultants Limited		Serial No. /Ref. No. : 570183 / 550233		
RM 1710, Technology Park,		Object 2 :		
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. :		
Hong Kong				
Customer Code : SVEC09005		Manufacturer : BSWAtech		
Date of calibration:	07/10/2020	Certificate No.: 0024993		
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002		

### Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.4dB	-0.6dB	+/- 1.5dB	1
114.0dB	113.2dB	-0.8dB	+/- 1.5dB	1

#### Measuring equipment

index	Calibrator / Master	Traceability	
1	Master Sound Meter, SVAN949,sn:8571	IEC61672	
2	Sound Calibrator, SV30A sn:32580	IEC60942	

#### Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

#### **Uncertainty**

+/- 0.2 dB for probability not less than 95%.

Appleone Calibration Laboratory Ltd.

#### **Conformity**

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. 5 The calibrations certificate may not be reproduced

5. The calibrations certificate may not be reproduced.

Measured value(s) within the allowable deviation.

Performed by
Calibration Technician Mr. K.L. Ng

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393



0024995

Customer :		Object 1 : BSWA 308 SLM		
Cinotech Consultants Limited		Serial No. /Ref. No. : 570187 / 550841		
RM 1710, Technology Park,		Object 2 :		
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No.		
Hong Kong				
Customer Code : SVEC09005		Manufacturer : BSWAtech		
Date of calibration:	07/10/2020	Certificate No.: 0024995		
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002		

### Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	93.1dB	-0.9dB	+/- 1.5dB	1
ſ	114.0dB	113.1dB	-0.9dB	+/- 1.5dB	1

### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

#### Uncertainty

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. 5. The calibrations certificate may not be reproduced.

Measured value(s)

**Calibration Technician** 

the allowable deviation.

Performed by

Approved by

Mr. K.S. Ng

**Quality Manager** 

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, KIn, HKSAR

Mr. K.L. Ng

Tel: +852 2370 4437 Fax: +852 2114 0393



0024996

Customer :		Object 1 : BSWA 308 SLM		
Cinotech Consultants Limited		Serial No. /Ref. No. : 570188 / 550850		
RM 1710, Technology Park,		Object 2 :		
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. :		
Hong Kong				
Customer Code : SVEC09005		Manufacturer : BSWAtech		
Date of calibration:	07/10/2020	Certificate No.: 0024996		
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002		

#### Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	92.9dB	-1.1dB	+/- 1.5dB	1
114.0dB	112.8dB	-1.2dB	+/- 1.5dB	1

#### Measuring equipment

index	index Calibrator / Master		
1	Master Sound Meter, SVAN949, sn:8571	IEC61672	
2	Sound Calibrator, SV30A sn:32580	IEC60942	

#### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

### Uncertainty

+/- 0.2 dB for probability not less than 95%.

#### **Conformity**

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.					
Measured value(s) within	the allowable deviation.				
Performed by		Approved by			
le/5		Mr. K.S. Ng			
Calibration Technician	Mr. K.L. Ng	Quality Manager			
Appleone Calibration Laboratory Ltd.	Rm1309, 13/F, No.77 Wing Hong St	i, Kin, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393			



0025247

Customer :		Object 1 :	ST-120 sound calibrator	
Cinotech Consultants Limited		Serial No. /Ref. No. :	181001608	
RM 1710, Technology Park,		Object 2 :		
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. ::		
Hong Kong				
Customer Code : SVEC09005		Manufacturer : Sour	ndtek	
Date of calibration:	05/11/2020	Certificate No .:	0025247	
Date of the recommended re-calibration:	05/11/2021	Handle by:	E0002	

#### Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	1

### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949, sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source -

#### Uncertainty

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

Measured value(s)	within the	e allowable deviation		
Performed by	1		Approved	ьу
	at		L	~ ``
Calibration Technicia	an	Mr. K.L. Ng	Quality Ma	nager
Appleone Calibration Lat	poratory Ltd. Rm	1309, 13/F, No.77 Wing Hor	ng St, Kln, HKSAR	Tel: +852 2370 4437 Fax: +852 2114 0393



0025249

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong		Object 1 :ST-120 sound calibratorSerial No. /Ref. No. :181001636Object 2 :Serial No. /Ref. No. :		
Customer Code :     SVEC09005       Date of calibration:     0	)5/11/2020 )5/11/2021	Manufacturer : Sour Certificate No.: Handle by:	ndtek 0025249 E0002	

#### Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	1

## Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949, sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source ...

#### **Uncertainty**

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

Measured value(s) within	the allowable deviation.	
Performed by		Approved by
ar		L
Calibration Technician	Mr. K.L. Ng	Quality Manager
Appleone Calibration Laboratory Ltd.	Rm1309, 13/F, No.77 Wing Hong S	t, KIn, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

APPENDIX H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

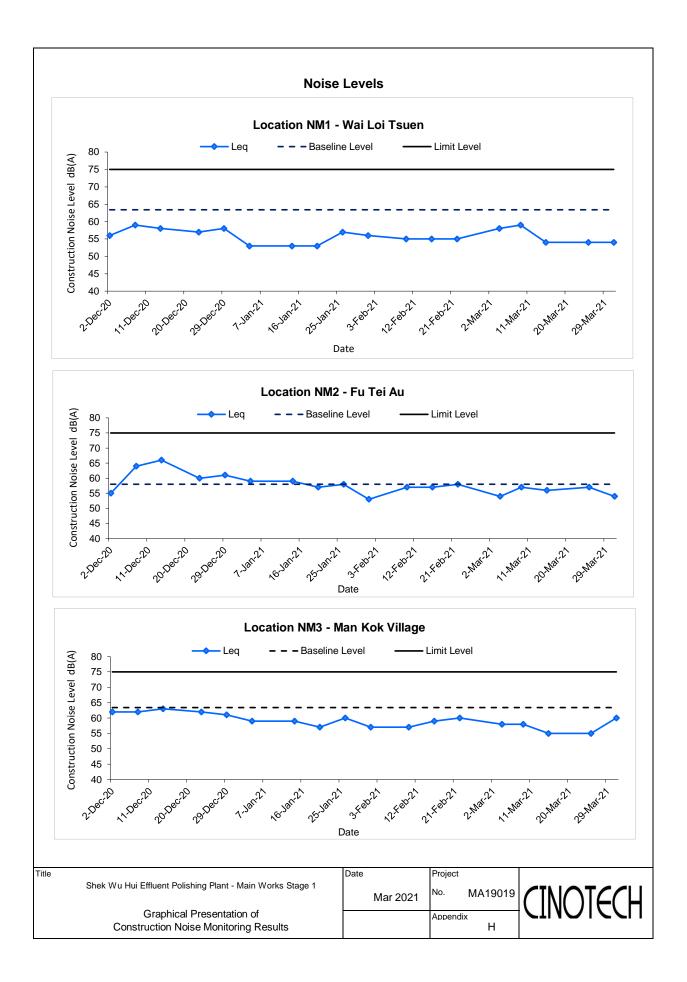
## Appendix H - Noise Monitoring Results

Location NM1 - Wai Loi Tsuen								
					Uni	t: dB (A) (30-min)		
Date	Time	Weather	Weather Measu		sured Noise Level		Construction Noise Level	
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	
4-Mar-21	10:23	Cloudy	58.4	61.5	51.4	63.4	58.4 Measured $\leq$ Baseline	
9-Mar-21	10:00	Sunny	58.5	61.7	55.6	63.4	58.5 Measured $\leq$ Baseline	
15-Mar-21	13:00	Sunny	53.5	54.0	49.2	63.4	53.5 Measured $\leq$ Baseline	
25-Mar-21	10:00	Sunny	53.7	55.3	49.9	63.4	53.7 Measured $\leq$ Baseline	
31-Mar-21	13:30	Sunny	53.9	55.8	51.3	63.4	53.9 Measured $\leq$ Baseline	

#### (0700-1900 hrs on Normal Weekdays)

Location NM2 - Fu Tei Au								
					Uni	t: dB (A) (30-min)		
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	
4-Mar-21	11:49	Cloudy	54.2	56.7	48.8	58.0	54.2 Measured $\leq$ Baseline	
9-Mar-21	14:00	Sunny	56.6	59.2	53.1	58.0	56.6 Measured $\leq$ Baseline	
15-Mar-21	15:05	Sunny	56.4	59.2	51.4	58.0	56.4 Measured $\leq$ Baseline	
25-Mar-21	14:00	Sunny	56.8	59.9	51.7	58.0	56.8 Measured $\leq$ Baseline	
31-Mar-21	15:40	Sunny	59.4	61.2	55.5	58.0	53.8	

Location NM3 - Man Kok Village									
				Unit: dB (A) (30-min)					
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level		
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>		
4-Mar-21	10:57	Cloudy	58.0	60.8	53.1	63.4	58 Measured ≦ Baseline		
9-Mar-21	11:00	Sunny	57.7	57.7 60.3		63.4	57.7 Measured $\leq$ Baseline		
15-Mar-21	13:50	Sunny	55.0	57.8	47.1	63.4	55 Measured $\leq$ Baseline		
25-Mar-21	11:30	Sunny	55.2	58.3	47.9	63.4	55.2 Measured $\leq$ Baseline		
31-Mar-21	14:00	Sunny	60.1	62.2	51.4	63.4	60.1 Measured $\leq$ Baseline		



APPENDIX I ECOLOGICAL MONITORING RESULTS AND ANALYSIS

#### MA19019 - Ecological Monitoring Result and Analysis

Scientific Name	Common Name	Chinese Name	Waterbird	Point Count Abundance	Transect Abundance
Acridotheres cristatellus	Crested Myna	八哥		94	+++++
Actitis hypoleucos	Common Sandpiper	磯鷸	*	10	
Anthus hodgsoni	Olive Backed Pipit	樹鷚		21	
Ardea alba	Great Egret	大白鷺	*	26	+
Ardea cinerea	Grey Heron	蒼鷺	*	26	+
Ardeola bacchus	Chinese Pond Heron	池鷺	*	44	++++
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	*	51	++
Buteo japonicus	Eastern Buzzard	普通鵟	*	2	
Centropus bengaiensis	Lesser Coucal	小鴉鵑		1	
Centropus sinensis	Greater Coucal	褐翅鴉鵑		0	+
Ceryle rudis	Pied Kingfisher	斑魚狗	*	0	+
Charadrius dubius	Little Ringed Plover	金眶鴴	*	1	
Corvus macrorhynchus	Jungle Crow	大嘴烏鴉		12	+
Corvus torquatus	Collared Crow	白頸鴉	*	3	
Egretta garzetta	Little Egret	小白鷺	*	77	+++++
Egretta intermedia	Intermediate Egret	中白鷺	*	1	
Eudynamys scolopacea	Common Koel	噪鵑		10	+
Garrulax perspicillatus	Masked Laughing Thrush	黑臉噪鶥		16	
Hierococcyx sparverioides	Large Hawk Cuckoo	大鷹鵑		9	+
Himantopus himantopus	Black-winged Stilt	黑翅長腳鷸	*	12	+
Hirundo rustica	Barn Swallow	家燕		70	+
Milvus migrans	Black Kite	黑鳶	*	3	+
Motacilla alba	White Wagtail	白鶺鴒		29	++
Myophonus caeruleus	Blue Whistling Thrush	紫嘯鶇		0	+
Orthotomus sutorius	Common Tailorbird	長尾縫葉鶯		23	++
Passer montanus	Eurasian Tree Sparrow	樹麻雀		11	+
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	*	4	+
Phylloscopus fuscatus	Dusky Warbler	褐柳鶯		6	+
Pica pica	Magpie	喜鵲		4	+
Pycnonotus jocosus	Crested bulbul	紅耳鵯		27	++
Pycnonotus sinensis	Chinese Bulbul	白頭鵯		38	+
Streptopelia chinensis	Spotted Dove	珠頸斑鳩		32	+
Tringa nebularia	Common Greenshank	青腳鷸	*	0	+
Tringa ochropus	Green Sandpiper	白腰草鷸	*	0	+
Zosterops japonicus	Japanese White-eye	暗綠繡眼鳥		23	+
		Total Poin	nt Count Abundance	686	
			Total Waterbirds	260	

\*For waterbird

For transect abundance, +: <10, ++: 11-20, +++: 21-30, ++++: 31-40, +++++: >40

Remarks: (1) According to S4.7 of the approved Baseline Monitoring Report (Ecology), "waterbirds" was defined as "waterbirds and wetland-dependent species", which was referenced to Monthly Waterbird Monitoring Biannual Reports prepared by the Hong Kong Bird Watching Society (Anon, 2018). Also, S.13.11.3.2 of NENT NDA EIA Study requires "Monitoring of Measures to Mitigate for Impacts of the Project on Wetland-dependent Fauna using the Ng Tung, Sheung Yue and Shek Sheung Rivers". Therefore, "wetland-dependent birds" should be considered as "waterbirds". As raptors and Collared Crow are "wetland-dependent species", they should be taken into consideration in data analysis and impact assessment on waterbirds.

ſ	Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant - Main Work Stage 1			Project No. MA19019	CINOTECH
	Monthly Data Analysis for Ecological Monitoring	Date	March 2021	Appendix	

#### MA19019 - Waterbird Ecological Monitoring Result

Monitoring Month Mar

Season Winter

	Table II : Total Bird Abundance from Point Count									
	Survey Information Total Bird Abundance from Poir									
No.	No. Date T		Tide Level	Individuals Recorded	Total	Species Recorded				
#1	1 Mar 2021	13:00	High	44	127	11				
#1	1 Mar 2021	8:00	Low	83	127	21				
#2	12 Mar 2021	14:00	High	53	147	15				
#2	12 Mar 2021	8:00	Low	94	14/	19				
#3	16 Mar 2021	13:00	High	39	122	13				
#3	16 Mar 2021	8:00	Low	83	122	16				
#4	26 Mar 2021	12:00	High	55	155	16				
#4	20 Mar 2021	8:00	Low	100	155	21				
#5	29 Mar 2021	11:00	High	43	135	11				
#5	29 Mar 2021	7:00	Low	92	135	18				
				Overall Total	686					

	Table III: Total Waterbird Abundance from Point Count									
	Survey	Informatio	n	Numbers of Waterbirds						
No.	No. Date Time Tide Level			Individuals Recorded	Total					
#1	1 Mar 2021	13:00	High	16	56					
#1	1 Wiai 2021	8:00	Low	40	50					
#2 12	12 Mar 2021	14:00	High	20	70					
	12 Mar 2021	8:00	Low	50	70					
#3	16 Mar 2021	13:00	High	11	50					
#3	10 Mai 2021	8:00	Low	39	50					
#4	26 Mar 2021	12:00	High	10	40					
#4	20 Mai 2021	8:00	Low	30	40					
#5	29 Mar 2021	11:00	High	15	44					
#3	29 Mar 2021	7:00	Low	29						
				Overall Total	260					
				Average	52					

#### Table IV: T-Test Analysis for All Waterbirds

Baseline Data

Monthly Average Abundance (Mar) 48.13

Seasonal Average Abundance (Winter) 62.15

T-test

The following hypothesis was made and a one-tail t-test will be used to test the data collected from the monitoring:

 $H_0$  The data collected in the reporting month falls within the normal distrubution when compared to the baseline monitoring data.

 $H_1 = H_1$  The data collected does not falls within the normal distrubution when compared to the baseline monitoring data.

If t-test value is  $\underline{smaller}$  than the critical value, then rejects  $H_0$ .

Overall:

For the data in the reporting month, the critical values are:

Crit. Value = -2.132 (95% Confidence Level)

Crit. Value = -3.747 (99% Confidence Level)

Confidence Level

V

Abundance Monthly 0.691 $\checkmark$ $\checkmark$	95% 99%	95%	T-values of Data in Reporting Month					
	✓ ✓	$\checkmark$	0.691	Monthly	A hundon oo			
Season -1.810 🗸 🗸	✓ ✓	$\checkmark$	-1.810	Season	Abundance			

Remarks:

✓ = T-value falls within the confidence level, the impact monitoring data shows no significant difference to the baseline data.

1

 $\mathbf{X}$  = T-value falls outside the confidence level, the impact monitoring data shows significant difference to the baseline data.

Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant - Main Work 1	Stage		Project No. MA19019	
Monthly Data Analysis for Ecological Monito	ring Date	March 2021	Appendix	

#### MA19019 - Waterbird Ecological Monitoring Result

Monitoring Month Mar

Season Winter

Table V: Abundance of Representative Waterbirds from Point Count											
	Recorded Abundance							Baseline Data			
Species Name	Common Name	Chinese Name	1 Mar 2021	12 Mar 2021	16 Mar 2021	26 Mar 2021	29 Mar 2021	Total	Average	Avg (Mar)	Avg (Winter)
Egretta garzetta	Little Egret	小白鷺	19	19	15	8	16	77	15	19	15
Ardea cinerea	Grey Heron	蒼鷺	4	5	9	5	3	26	5	3	13
Ardeola bacchus	Chinese Pond Heron	池鷺	6	13	7	9	9	44	9	9	9
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	2	2	0	0	0	4	1	3	7
Ardea alba	Great Egret	大白鷺	11	7	5	3	0	26	5	4	5
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	8	14	10	11	8	51	10	9	4

#### Table VI: T-test Analysis for Representative Waterbirds from Point Count

The following hypothesis was made and a one-tail t-test will be used to test the data collected from the monitoring:

H<sub>0</sub> The data collected in the reporting month falls within the normal distrubution when compare to the baseline monitoring data.

H<sub>1</sub> The data collected does not falls within the normal distrubution when compare to the baseline monitoring data.

If t-test value for a specific representative is smaller than the critical value, then rejects H<sub>0</sub>.

For the data in the reporting month, the critical values are:

Crit. Value = -2.132 (95% Confidence Level)

Crit. Value = -3.747 (99% Confidence Level)

Representative Species			T-value	e Confidence Level		T-value	Confidence Level		Overall
Species Name	Common Name	Chinese Name	Monthly	95%	99%	Seasonal	95%	99%	
Egretta garzetta	Little Egret	小白鷺	-1.897	$\checkmark$	$\checkmark$	0.377	$\checkmark$	√	$\checkmark$
Ardea cinerea	Grey Heron	蒼鷺	2.593	$\checkmark$	$\checkmark$	-7.749	×	×	√
Ardeola bacchus	Chinese Pond Heron	池鷺	-0.352	$\checkmark$	$\checkmark$	-0.359	$\checkmark$	√	√
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	-3.810	×	×	-12.917	×	×	Limit Level
Ardea alba	Great Egret	大白鷺	0.707	$\checkmark$	$\checkmark$	-0.058	$\checkmark$	√	√
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	0.878	$\checkmark$	$\checkmark$	5.453	$\checkmark$	$\checkmark$	√

Remarks

 $\checkmark$  = T-value falls within the confidence level, the impact monitoring data shows no significant difference to the baseline data.

 $\mathbf{X}$  = T-value falls outside the confidence level, the impact monitoring data shows significant difference to the baseline data.

Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant - Main Work Stage 1		Project No. MA19019	CINOTCOL
Monthly Data Analysis for Ecological Monitoring	Date March 2021	Appendix I	CINOTECH

APPENDIX J PHOTO RECORDS OF ECOLOGICAL MONITORING

## **Appendix J - Photo Records of Ecological Monitoring**

## **Part A - Conditions of Rivers**

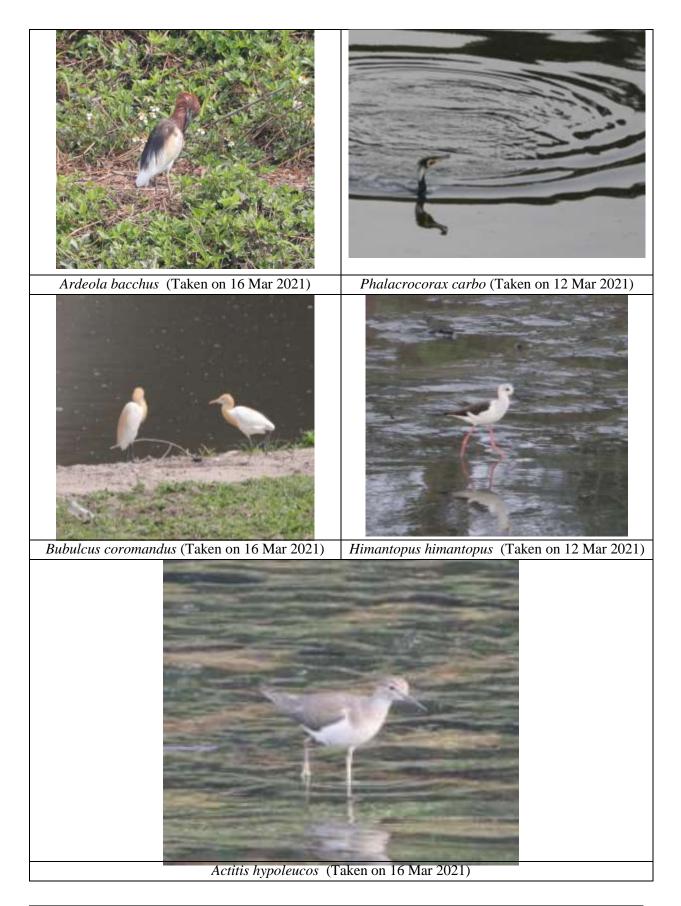




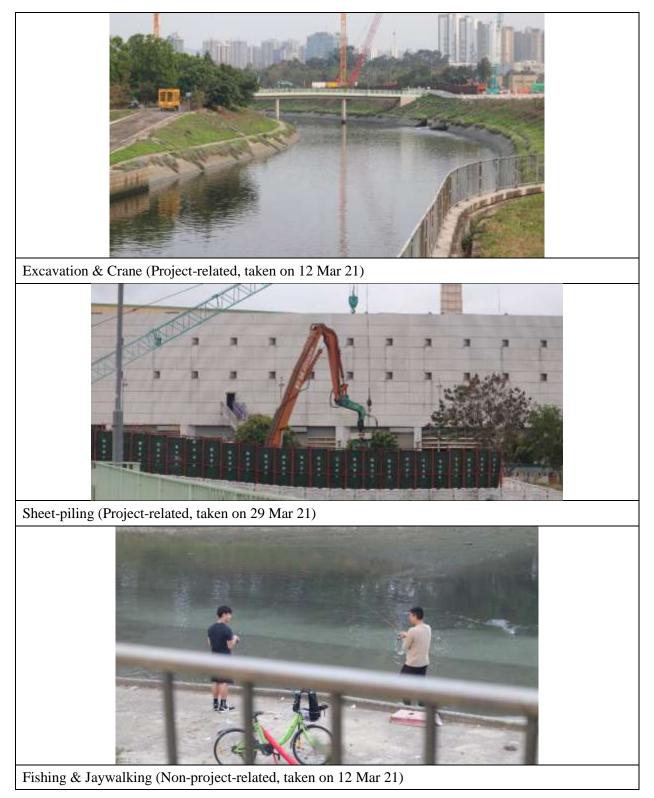
Shek Sheung River (Taken on 29 Mar 2021)







## Part C – Human Activities & Site Conditions







APPENDIX K SITE AUDIT SUMMARY

Checklist Reference Number	210302
Date	2 March 2021 (Tuesday)
Time	9:30 - 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210223).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	Lang	2 March 2021
Checked by	Mr. Eric Yan	yty	3 March 2021

Checklist Reference Number	210311
Date	11 March 2021 (Thursday)
Time	9:30 - 11:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210302).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	hdro	11 March 2021
Checked by	Mr. Eric Yan	yty	11 March 2021

Checklist Reference Number	210316
Date	16 March 2021 (Tuesday)
Time	9:30 - 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210311).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	hdro	16 March 2021
Checked by	Mr. Eric Yan	yty	17 March 2021

Checklist Reference Number	210323
Date	23 March 2021 (Tuesday)
Time	9:30 - 11:15

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
210323-R1	• Wastewater should be pumped out and treated via sedimentation tank before discharge at Portion A.	B3i
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210316).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	hdro	23 March 2021
Checked by	Mr. Eric Yan	yty	24 March 2021

Checklist Reference Number	210330
Date	30 March 2021 (Tuesday)
Time	9:30 - 11:15

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	Following up on the previous site inspection (ref no.: 210323): Item 210323-R1 was rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	hdro	30 March 2021
Checked by	Mr. Eric Yan	yty	31 March 2021

Checklist Reference Number	210302
Date	2 March 2021 (Thursday)
Time	9:30 - 11:30

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210223).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	helno	2 March 2021
Checked by	Mr. Eric Yan	syty	3 March 2021

Checklist Reference Number	210311
Date	11 March 2021 (Thursday)
Time	9:30 - 11:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210302).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	helno	11 March 2021
Checked by	Mr. Eric Yan	sty	11 March 2021

Checklist Reference Number	210316
Date	16 March 2021 (Tuesday)
Time	9:30 - 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210311).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	helno	16 March 2021
Checked by	Mr. Eric Yan	sty	17 March 2021

Checklist Reference Number	210323
Date	23 March 2021 (Tuesday)
Time	9:30 - 11:15

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210316).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	helno	23 March 2021
Checked by	Mr. Eric Yan	sty	24 March 2021

Checklist Reference Number	210330
Date	30 March 2021 (Tuesday)
Time	9:30 - 11:15

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210323).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	helno	30 March 2021
Checked by	Mr. Eric Yan	syty	31 March 2021

Checklist Reference Number	210302
Date	2 March 2021 (Tuesday)
Time	10:30 - 11:30

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210223).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	heno	2 March 2021
Checked by	Mr. Eric Yan	yty	3 March 2021

Checklist Reference Number	210309
Date	9 March 2021 (Tuesday)
Time	10:00 - 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210302).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	heno	9 March 2021
Checked by	Mr. Eric Yan	yty	10 March 2021

Checklist Reference Number	210316
Date	16 March 2021 (Tuesday)
Time	10:30 - 11:30

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210309).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	heno	16 March 2021
Checked by	Mr. Eric Yan	yty	17 March 2021

Checklist Reference Number	210323
Date	23 March 2021 (Tuesday)
Time	10:30 - 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210316).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	heno	23 March 2021
Checked by	Mr. Eric Yan	yty	24 March 2021

Checklist Reference Number	210330
Date	30 March 2021 (Tuesday)
Time	10:30 - 11:30

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210323).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	heno	30 March 2021
Checked by	Mr. Eric Yan	yty	31 March 2021

Checklist Reference Number	210302
Date	2 March 2021 (Tuesday)
Time	10:30 - 11:30

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210223).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	heno	2 March 2021
Checked by	Mr. Eric Yan	yty	3 March 2021

Checklist Reference Number	210309
Date	9 March 2021 (Tuesday)
Time	10:00 - 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210302).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	heno	9 March 2021
Checked by	Mr. Eric Yan	yty	10 March 2021

Checklist Reference Number	210316
Date	16 March 2021 (Tuesday)
Time	10:30 - 11:30

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210309).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	heno	16 March 2021
Checked by	Mr. Eric Yan	yty	17 March 2021

Checklist Reference Number	210323
Date	23 March 2021 (Tuesday)
Time	10:30 - 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
210323-R1	• Chemicals should be stored in drip tray at Portion B-3-B.	E6iv
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210316).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	hend	23 March 2021
Checked by	Mr. Eric Yan	yty	24 March 2021

Checklist Reference Number	210330
Date	30 March 2021 (Tuesday)
Time	10:30 - 11:30

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
210330-R1	• Waste accumulated should be removed at Portion B-3-B.	E2iii
	F. Ecology and Fisheries	
	<ul> <li>No environmental deficiency was identified during the site inspection.</li> </ul>	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	Following up on the previous site inspection (ref no.: 210323): Item 210323-R1 was rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	heno	30 March 2021
Checked by	Mr. Eric Yan	yty	31 March 2021

APPENDIX L WASTE FLOW TABLE

# Name of Department: DSD

# Monthly Summary Waste Flow Table for 2021

	Actua	l Quantities	of Inert C&D	Materials G	enerated Mo	onthly	Actual	Quantities o	f C&D Wastes	Generated	Monthly
		Hard Rock									
	Total	and Large	Reused in	Reused in	Disposed			Paper/			Others, e.g.
Month	Quantity	Broken	the	other	as Public	Imported		cardboard		Chemical	general
	Generated	Concrete	Contract	Projects	Fill	Fill	Metals	packaging	Plastics	Waste	refuse
	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	10.034	0.000	0.000	8.257	1.777	0.606	0.000	0.000	0.002	0.000	0.038
Feb	3.703	0.000	0.000	2.871	0.833	0.071	2.120	0.000	0.000	0.000	0.024
Mar	4.644	0.000	0.000	2.190	2.454	0.037	0.000	0.000	0.006	0.000	0.044
Apr											
May											
Jun											
Sub-total	18.381	0.000	0.000	13.317	5.064	0.714	2.120	0.000	0.008	0.000	0.106
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	18.381	0.000	0.000	13.317	5.064	0.714	2.120	0.000	0.008	0.000	0.106

**Notes**: 1. Assume the density of soil fill is 2 ton/m3.

2. Assume the density of rock and broken concrete is 2.5 ton/m3.

3. Assume the density of general refuse is 0.9 ton/m3.

4. Assume density of waste oil is assued to be 0.8 kg/L.

5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38.

6. The slurry and bentonite are disposed at Tseung Kwun O 137.

7. The non-inert C&D wastes are disposed at NENT.

# Monthly Summary Waste Flow Table for 2021

	Actua	Quantities	of Inert C&D	Materials G	enerated Mo	onthly	Actual	Quantities o	f C&D Wastes	Generated	Monthly
		Hard Rock									
	Total	and Large	Reused in	<b>Reused in</b>	Disposed			Paper/			Others, e.g.
Month	Quantity	Broken	the	other	as Public	Imported		cardboard		Chemical	general
	Generated	Concrete	Contract	Projects	Fill	Fill	Metals	packaging	Plastics	Waste	refuse
	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)					
Jan	0.836	0.000	0.000	0.000	0.836	0.301	21.25	0.000	0.002	0.000	0.006
Feb	0.911	0.000	0.000	0.000	0.911	0.376	39.35	0.000	0.000	0.000	0.007
Mar	0.954	0.000	0.000	0.000	0.954	0.202	0.00	0.000	0.003	0.000	0.016
Apr											
May											
Jun											
Sub-total	2.701	0.000	0.000	0.000	2.701	0.879	60.60	0.000	0.005	0.000	0.029
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	2.701	0.000	0.000	0.000	2.701	0.879	60.60	0.000	0.005	0.000	0.029

Notes: 1. Assume the density of soil fill and special waste (i.e. sediment from DSD sedimentation tank) is 2 ton/m3.

2. Assume the density of rock and broken concrete is 2.5 ton/m3

3. Assume the density of general refuse is 0.9 ton/m3

4. Density of waste oil is assued to be 0.8 kg/L. Chemical waste includes waste oil.

5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38

6. The slurry and bentonite are disposed at Tseung Kwun O 137

7. The non-inert C&D wastes, including general refuse & special waste (i.e. sediment from DSD sedimentation tank) are disposed at NENT

# Name of Department: ArchSD/CEDD/DSD/EMSD/HyD/WSD

Contract No.: <u>DE/2018/03</u>

# Monthly Summary Waste Flow Table for <u>2021</u> (year)

		Actual Quantit	ties of Inert C&D	Materials Generate	ed Monthly			Actual Quantities of	C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	9.53 T	0	0	0	9.53 T	0	0	0	0	0	0
Feb	3.47T	0	0	0	3.47 T	0	0	0	0	0	0
Mar	14.79T	0	0	0	14.79T	0	0	0	0	0	0
Apr											
May											
June											
Sub-total	27.79T	0	0	0	27.79T	0	0	0	0	0	0
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	27.79T	0	0	0	27.79T	0	0	0	0	0	0

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*									
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA

Notes: (1) The performance targets are given in PS Clause 6A.27.8(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 *Contractor* shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>. (PS Clause 6.21.7(4)(b) refer

# Monthly Summary Waste Flow Table for 2021 (year)

		Actual Quanti	ties of Inert C&D	Materials Generate	ed Monthly			Actual Quantities of	C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan	230.16	0	0	0	230.16	0	0	0	0	0	1.54
Feb	175.98	0	100	0	75.98	0	0	0	0	0	3.63
Mar	11.98	0	0	0	11.98	0	0	0	0	0	1.35
Apr											
May											
June											
Sub-total	418.12	0	100	0	318.12	0	0	0	0	0	6.52
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	418.12	0	100	0	318.12	0	0	0	0	0	6.52

APPENDIX M EVENT AND ACTION PLANS

T (		Act	tion	
Event	ET	IEC	ER	Contractor
Action level being exceeded by one sampling	<ol> <li>Identify source, investigate the causes of complaint and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
Action level being exceeded by two or more consecutive sampling	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues,</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

# Table M-1Event/Action Plan for Air Quality

E		Action	n	
Event	ET	IEC	ER	Contractor
Limit level being exceeded by one sampling	<ul> <li>arrange meeting with IEC and ER;</li> <li>8. If exceedance stops, cease additional monitoring.</li> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Inform Contractor, IEC, ER, and EPD;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER</li> </ul>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	•	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
<b>.</b>	informed of the results.			1 10 1 1 1 4 4 4
Limit level being	1. Notify IEC, ER, Contractor	1. Discuss amongst ER, ET, and 1.	. Confirm receipt of	1. Take immediate action to
exceeded by two or	and EPD;	Contractor on the potential	notification of exceedance in	avoid further exceedance;
more consecutive	2. Identify source;	remedial actions;	writing;	2. Submit proposals for remedial
sampling	3. Repeat measurement to	2. Review Contractor's2.	. Notify Contractor;	actions to IEC within three
	confirm findings;	remedial actions whenever 3.	. In consolidation with the	working days of notification;

E-con4		Ad	tion	
Event	ET	IEC	ER	Contractor
	4. Increase monitoring	necessary to assure their	IEC, agree with the	3. Implement the agreed
	frequency to daily;	effectiveness and advise the	Contractor on the remedial	proposals;
	5. Carry out analysis of	ER accordingly;	measures to be implemented;	4. Resubmit proposals if
	Contractor's working	3. Supervise the	4. Ensure remedial measures	problem still not under
	procedures to determine	implementation of remedial	properly implemented;	control;
	possible mitigation to be	measures.	5. If exceedance continues,	5. Stop the relevant portion of
	implemented;		consider what portion of the	works as determined by the
	6. Arrange meeting with IEC		work is responsible and	ER until the exceedance is
	and ER to discuss the		instruct the Contractor to	abated.
	remedial actions to be taken;		stop that portion of work	
	7. Assess effectiveness of		until the exceedance is	
	Contractor's remedial actions		abated.	
	and keep IEC, EPD and ER			
	informed of the results;			
	8. If exceedance stops, cease			
	additional monitoring.			

		Action	
Event	ET	IEC ER	Contractor
Action Level	1. Notify IEC and Contractor;	1. Review the analysed results 1. Confirm receipt of	1. Submit noise mitigation
	2. Carry out investigation;	submitted by the ET; notification of failure in	proposals to IEC;
	3. Report the results of	2. Review the proposed writing;	2. Implement noise mitigation
	investigation to the IEC, ER	remedial measures by the 2. Notify Contractor;	proposals.
	and Contractor;	Contractor and advise the ER 3. Require Contractor to propose	
	4. Discuss with the Contractor	accordingly; remedial measures for the	
	and formulate remedial	3. Supervise the analysed noise problem;	
	measures;	implementation of remedial 4. Ensure remedial measures are	
	5. Increase monitoring	measures. properly implemented.	
	frequency to check		
	mitigation effectiveness.		
Limit Level	1. Identify source;	1. Discuss amongst ER, ET, and 1. Confirm receipt of	1. Take immediate action to
	2. Inform IEC, ER, EPD and	Contractor on the potential notification of failure in	avoid further exceedance;
	Contractor;	remedial actions; writing;	2. Submit proposals for
	3. Repeat measurements to	2. Review Contractors remedial 2. Notify Contractor;	remedial actions to IEC
	confirm findings;	actions whenever necessary 3. Require Contractor to	within 3 working days of
	4. Increase monitoring	to assure their effectiveness propose remedial measures	notification;
	frequency;	and advise the ER for the analysed noise	3. Implement the agreed
	5. Carry out analysis of	accordingly; problem;	proposals;

# Table M-2Event/Action Plan for Construction Noise

Event		Act	tion	
Event	ЕТ	IEC	ER	Contractor
	Contractor's working	3. Supervise the	4. Ensure remedial measures	4. Resubmit proposals if
	procedures to determine	implementation of remedial	properly implemented;	problem still not under
	possible mitigation to be	measures.	5. If exceedance continues,	control;
	implemented;		consider what portion of the	5. Stop the relevant portion of
	6. Inform IEC, ER and EPD the		work is responsible and	works as determined by the
	causes and actions taken for		instruct the Contractor to stop	ER until the exceedance is
	the exceedances;		that portion of work until the	abated.
	7. Assess effectiveness of		exceedance is abated.	
	Contractor's remedial actions			
	and keep IEC, EPD and ER			
	informed of the results;			
	8. If exceedance stops, cease			
	additional monitoring.			

Action Level	Response	Limit Level	Response
Construction Phase			
Decline in numbers of all waterbird species relative to numbers during Baseline Monitoring such that the Action Level response is triggered.	Investigate cause and if cause identified as related to the Project instigate remedial action to remove or reduce source of disturbance.	Decline in numbers of all waterbird species relative to numbers during Baseline Monitoring such that the Limit Level response is triggered.	Investigate cause and if caused identified as related to the Project instigate remedial action.
Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Action Level response is triggered.	Investigate cause and if cause identified as related to the Project instigate remedial action to remove or reduce source of disturbance.	Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Limit Level response is triggered.	Investigate cause and if caused identified as related to the Project instigate remedial action.

# Table M-3Event/Action Plan for Ecology

Event	Action					
	ET	IEC	ER	Contractor		
Non-conformity	1. Inform the Contractor, IEC and	1. Check inspection report;	1. Confirm receipt of	1. Identify source and investigate		
on one occasion	ER;	2. Check Contractor's working	notification of	the non-conformity;		
	2. Discuss remedial actions with	method;	non-conformity in writing;	2. Implement remedial measures;		
	IEC, ER and Contractor	3. Discuss with ET, ER and	2. Review and agree on the	3. Amend working methods		
	3. Monitor remedial actions until	Contractor on possible	remedial measures	agreed with ER as appropriate;		
	rectification has been	remedial measures;	proposed by the	4. Rectify damage and undertake		
	completed.	4. Advise ER on effectiveness	Contractor;	any necessary replacement.		
		of proposed remedial	3. Supervise implementation			
		measures.	of remedial measures.			

Table M-4Event/Action Plan for Landscape and Visual

Event	Action			
	ET	IEC	ER	Contractor
Repeated	1. Identify source;	1. Check inspection report;	1. Notify the Contractor;	1. Identify source and investigate
Non-conformity	2. Inform the Contractor, IEC and	2. Check Contractor's working	2. In consultation with the ET	the non-conformity;
	ER;	method;	and IEC, agree with the	2. Implement remedial measures;
	3. Discuss inspection frequency;	3. Discuss with ET, ER and	Contractor on the remedial	3. Amend working methods
	4. Discuss remedial actions with	Contractor on possible	measures to be	agreed with ER as appropriate;
	IEC, ER and Contractor;	remedial measures;	implemented;	4. Rectify damage and undertake
	5. Monitor remedial actions until	4. Advise ER on effectiveness	3. Supervise implementation	any necessary replacement.
	rectification has been	of proposed remedial	of remedial measures.	Stop relevant portion of works
	completed;	measures.		as determined by ER until the
	6. If non-conformity stops, cease			non-conformity is abated.
	additional monitoring.			

APPENDIX N ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status								
Air Quality Imp															
S2.3.1.3	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:	To minimize the dust impact	Contractor	Work Sites	Construction phase of Main Works Stage 1,	Air Pollution Control Ordinance (APCO) and Air Pollution	٨								
	Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;				Stage 2 and Stage 3	Control (Construction Dust) Regulation	۸								
	Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;	•					٨								
	A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;						٨								
	The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;														۸
	Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;						۸								
	When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period.						۸								
	The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;						۸								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S2.3.1.3	Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;	To minimize the dust impact	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Air Pollution Control Ordinance (APCO) and Air Pollution Control (Construction Dust) Regulation	^
	Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;						N/A
	Any skip hoist for material transport should be totally enclosed by impervious sheeting;						N/A
	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;						N/A
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;						N/A
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and						N/A
	Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies						۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Noise Impact	1	1		•		1	
\$3.2.1.1	Use of movable barrier, enclosure, acoustic mat and quiet plant. Use of wooden frames barrier with a small-cantilevered upper portion of superficial density not less than 14kg/m <sup>2</sup> on a skid footing with 25mm thick internal sound absorptive lining.	To minimize construction noise impact arising from the Project at the affected noise sensitive receivers (NSRs)	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, Noise Control Ordinance (NCO)	^
\$3.2.1.2	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	To minimize construction noise impact arising from	Contractor	Work Sites	Construction phase of Main Works Stage 1,	EIAO-TM, NCO	۸
	Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.	the Project at the affected NSRs			Stage 2 and Stage 3		٨
	Mobile plant, if any, should be sited as far away from NSRs as possible.	•					٨
	Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.					-	۸
	Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	•					۸
	Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.						N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Ecological Impac		T	I	ſ	T	1	
S4.2.1.1	Solid dull green noise/visual barriers of at least 2m high shall be erected and maintained between active works area and all areas of ecological importance.	Minimize noise and human disturbances during construction phase.	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.2	Avoid unnecessary lighting.	Minimize mortality impacts on birds.	Design / Contractor/ Plant Operator	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	۸
S4.2.1.3	Good construction site practice to minimise dust generation should be followed on all construction sites. Measures to avoid, minimise and mitigate impacts on air quality are detailed in this schedule	Minimize dust generation from construction sites.	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	۸
S4.2.1.4	Temporary sewerage and drainage to be designed and installed to collect wastewater and prevent it from entering water bodies;	Avoid, minimise and mitigate impact on water quality	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	۸
	Proper locations well away from nearby water bodies should be used for temporary storage of materials (i.e. equipment, filling materials, chemicals and fuel) and temporary stockpiles of construction debris and spoil, and these should be identified before commencement of works;						۸
	To prevent muddy water entering nearby water bodies, work sites close to nearby water bodies should be isolated, using such items as sandbags or silt curtains with lead edge at bottom and properly supported props. Other protective measures should also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the work sites;						٨
	Construction debris and spoil should be covered and/or properly disposed of as soon as possible to avoid these being washed into nearby water bodies;						۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status												
S4.2.1.4	Proper locations for discharge outlets of temporary wastewater treatment facilities well away from sensitive receivers should be identified;	Avoid, minimise and mitigate impact on water quality	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^												
	Adequate lateral support should be erected where necessary in order to prevent soil/mud from slipping into water bodies;				Stage 5		۸												
	Site boundaries should be clearly marked and any works beyond the boundary strictly prohibited;				۸														
	Regular water monitoring and site audit should be carried out at adequate points along any watercourses where construction works are underway upstream within their catchments and also on the Ng Tung, Sheung Yue and Shek Sheung Rivers. If the monitoring and audit results show that pollution occurs, adequate measures including temporarily cessation of works should be considered;											-	۸						
	Excavation profiles should be properly designed and executed with attention to the relevant requirements for environment, health and safety;						٨												
	Where soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means;	-																	N/A
	Stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or contaminated run-off during rainy season. Watering should be avoided on stockpiles of contaminated soil to minimize contaminated runoff and construction materials should be properly covered and located away from nearby water bodies; and														۸				
	Supply of suitable clean backfill material after excavation, if required.	+					N/A												
	Vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or contaminated run-off, and truck bodies and tailgates should be sealed to prevent discharge during transport or during wet season;						۸												
	Speed control for the trucks carrying contaminated materials should be enforced;	-					٨												
	Vehicle wheel washing facilities at construction sites' exit points should be established and used, where necessary						۸												

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Water Quality In	mpact						
\$5.2.2.1	Construction Site Runoff Practices and measures provided in the Practice Note for Professional Persons on Construction Site Drainage, (PROPECC PN1/94) should be followed where applicable.	Control construction runoff	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	*
\$5.2.2.2 – \$5.2.2.3	Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed Contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	Handling of site sewage	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	Λ
	not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause water quality impact after undertaking all required measures						

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Waste Manager		r		I	1	r r	
S6.2.2.1	Nomination of an approved person, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal Ordinance (WDO)	^
	Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;						٨
	Provision of sufficient waste disposal points and regular collection for disposal;						٨
	Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;						۸
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;						٨
	An Environmental Management Plan (EMP) should be prepared by the contractor and submitted to the Supervisor for approval.						٨
\$6.2.3.1	Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Reduce waste generation	Contractor	Work Sites	Prior to the commencement of construction of Main Works Stage 1, Stage 2 and Stage 3	WDO	۸
	Proper storage and site practices to minimize the potential for damage and contamination of construction materials;						٨
	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;						٨
	Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); and						٨
	Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.						۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
6.2.4.1	Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1,	WDO	^
	Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and				Stage 2 and Stage 3		X
	Different locations should be designated to stockpile each material to enhance reuse.					-	٨
\$6.2.4.2	Remove waste in timely manner;	Minimize waste	Contractor	Work Sites	Construction	WDO	#
	Employ the trucks with cover or enclosed containers for waste transportation	impacts arising from waste storage			phase of Main Works Stage 1, Stage 2 and		٨
	Obtain relevant waste disposal permits from the appropriate authorities				Stage 3		٨
	Disposal of waste should be done at licensed waste disposal facilities.						٨
\$6.2.5.2	Maintain temporary stockpiles and reuse excavated fill material for backfilling;	Minimize waste impacts from excavated and	Contractor	Work Sites	Construction phase of Main Works Stage 1,	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW	٨
	Carry out on-site sorting;	C&D materials			Stage 2 and	No. 19/2005	٨
	Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;				Stage 3		۸
	Adopt "selective demolition" technique to demolish the existing structure and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; and						N/A
	Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified.						٨
\$6.2.5.3	The Contractor should recycle as much as possible of the C&DM on-site. Public fill and C&DM waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. For example, concrete and masonry can be crushed and used as fill, and steel reinforcing bar can be used by scrap steel mills. Different areas of the work sites should be designated for such segregation and storage.	Minimize waste impacts from building demolition and new building construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
\$6.2.5.3	The use of wooden hoardings shall not be allowed. An alternative material, such as metal, aluminium or alloy etc, could be used.	Minimize waste impacts from building demolition and new building construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	۸
	Government has developed a charging policy for the disposal of waste to landfill at present. It will provide additional incentive to reduce the volume of generated waste and ensure proper segregation to allow reuse of the inert material on site when implemented.						۸
	In order to minimize the impacts of the demolition works, the generated wastes must be cleared as quickly as possible after demolition. Therefore, the demolition and clearance works should be undertaken simultaneously. To facilitate proper segregation of inert and non-inert C&D material arising from demolition works, selective demolition method should be adopted.						۸
\$6.2.5.4	If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producers. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General)	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General) Regulation, Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	^
\$6.2.5.5	Regulation. General refuse should be stored in enclosed bins separately from construction and chemical wastes.	Minimize production of the general refuse and	Contractor	Work Sites	Construction phase of Main Works Stage 1,	of Main (Chemical Waste Stage 1, General) Regulation 2 and	۸
	Recycling bins should also be placed to encourage recycling. Preferably enclosed and covered areas should be provided for general refuse collection and routine cleaning for these areas should also be implemented to keep areas clean.	avoid odour, pest and litter impacts			Works Stage 1, Stage 2 and Stage 3		^
	A reputable waste collector should be employed to remove general refuse on a daily basis.	-					۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Landscape and V	/isual			-	-		
S7.3.1.1	For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to.	Minimize the impact to the landscape and visual	Contractor	Work Sites	Prior to construction and construction phase		N/A
	appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.						N/A
\$7.3.2.1	MM4 – Tree Protection & Preservation Existing trees to be retained within the Project Site should be carefully protected during construction. In particular Old and Valuable Trees (OVTs) will be preserved according to ETWB TC (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.	Protect and Preserve Trees	Designer / Contractor	Work Sites	Prior to construction and construction phase	ETWB TCW No. 29/2004 and DEVB TC(W) No.7/2015	Λ

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
\$7.3.2.1	MM5 - Tree Transplantation Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC No. 2/2004 and DEVB TC(W) No. 7/2015 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.	Transplant Trees where suitable for transplantation	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No.2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit	٨
S7.3.2.1	<ul> <li>MM6 - Slope Landscaping</li> <li>Site formation should be reduced as far as possible. Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape recourses and charter. Woodland tree seedings and/or shrubs should be planted where slope gradient and site conditions allow.</li> <li>In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GWO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.</li> </ul>	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man- made slopes are as visually amenable as possible.	Designer / Contractor	Work Sites	Prior to construction, construction phase and operation phase	GEO Publication (1999) - Use of Vegetation as Surface Protection on Slope; GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes	N/A N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
\$7.3.2.1	MM7 - Compensatory Planting Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under DEVB TC(W) No. 7/2015.	Compensate for trees and shrubs lost due to the Project	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No. 2/2004	N/A
	Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots.						N/A
	Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i> , <i>Diospyros</i> vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii are suggested.						N/A
\$7.3.2.1	MM9 - Vertical Greening Planting of climbers to grow up vertical surfaces were appropriate.	Soften hard surfaces and facilities	Designer / Contractor	On appropriate structures	construction,	ETWB TCW No.11/2004 – Cyber Manual for Greening	N/A
S7.3.2.1	MM10 - Green Roof Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable.	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to visually sensitive receivers (VSRs) at high levels. Provide greening.	Designer / Contractor	On appropriate buildings		CIBSE HK Branch, Technical Guidelines for Green Roof Systems in Hong Kong (2011); ArchSD/Urbis Study on Green Roof Application in HK (2007)	N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S7.3.2.1	MM11 - Screen Planting Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Designer / Contractor	8 8 1 1 1 1	Prior to construction, construction phase and operation phase	ETWB TCW No. 10/2013 and 3/2006	N/A
\$7.3.2.1	MM16 - Screen Hoarding Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence.	To screen undesirable views of the works site.	Designer	Work Sites	Construction phase		٨
\$7.3.2.1	MM17 - Light Control Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs.	Designer / Contractor	Work Sites and/or the Plant	Construction phase and operation phase		۸

Remarks: EM	I&A Programme under FEP-02/474/2013
^	Compliance of mitigation measure;
N/A N/A(1)	Not applicable at this stage; Not observed;
*	Recommendation was made during site audit but improved/retified by the contractor;
#	Recommendation was made during site audit but not yet improved/retified by the contractor;
Х	Non-compliance of mitigation measure;
•	Non-compliance but rectified by the contractor.

APPENDIX O SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

# Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1

# Appendix O – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

# **Reporting Month**: March 2021

Log Ref.	Location	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
1	Expansion Site of SWHSTP (Portion C)	18 March 2020	Muddy water was suspected to be discharged from the expansion site of SWHSTP to Shek Sheung River, manholes and foul drains nearby	<ul> <li>Employed suction truck and dump truck to clear the silt and mud at Shek Sheung River</li> <li>Arranged to repair the wastewater treatment system</li> <li>Installed additional sedimentation tanks and wastewater treatment system to increase the on-site treatment capacity</li> <li>Clean the slurry sediment released from the outlet regularly by suction trucks</li> <li>Avoid damage of underground drains and pipes caused by existing construction works</li> <li>Avoid illegal discharge from the Site into foul drains and manholes</li> </ul>	Complaint Investigation Report (CIR) was submitted in April 2020

# Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1

Log Ref.	Location	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
2	SWHEPP	19 February 2021	Significant odour nuisance was suspected to be emitted from the construction activities of SWHEPP	<ul> <li>Ensured only PMEs with valid NRMM label were used on-site</li> <li>Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart</li> <li>Used ULSD for diesel-powered equipment</li> <li>Provided water spraying and water sprinklers system for haul road access and demolition works</li> <li>Used battery powered solution to provide power to the tower crane</li> <li>Provided cover for all rubbish bins on-site</li> <li>Separated general refuse from construction waste</li> </ul>	CIR was submitted in March 2021

Annondiv O Summony of Environmental Complaint	Warning Summon and Natification of Suggested Processition
ADDENUIX $O = Summary of Environmental Combining$	Warning, Summon and Notification of Successful Prosecution
	$\mathbf{a}$

**Remarks**: No environmental complaint/warning/summon and prosecution was received in the reporting period.

APPENDIX P SUMMARY OF EXCEEDANCE

# Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1

# **Appendix P – Summary of Exceedance**

Reporting Month: March 2021

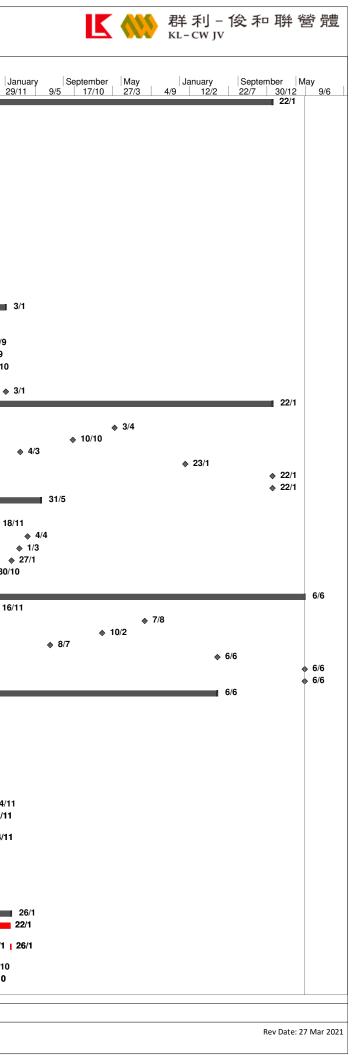
- (A) Exceedance Report for Air Quality (NIL in the reporting month)
- (B) Exceedance Report for Construction Noise (NIL in the reporting month)
- (C) Exceedance Report for Ecology No Action Level of ecological monitoring was triggered in the reporting month. One (1) Limit Level of ecological monitoring was triggered in the reporting month.

APPENDIX Q TENTATIVE CONSTRUCTION PROGRAMME

KD	Task Name	Duratior	Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors	Successors	Comple	Mov	larur	0	mbor Mari
												January 5/9 24/2	Septer 3/8	mber May 11/1 21/6
1 2	Contract Dates Starting Date	1956 day 0 days	s Mon 16/9/19 Mon 16/9/19	Wed 22/1/25 Mon 16/9/19	Mon 16/9/19 Mon 16/9/19		<b>0 days</b> 0 days		4,5FS+181 days,6,7,8,9,	<b>36%</b> 1 100%	16/9 • 16/	a	0	0
3	Access Date (cal. dav)	180 days		Sat 14/3/20	Mon 16/9/19		0 days		4,5F3+101 uays,0,7,0,9,	100%	T	14/3		
4	Portion A-1	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		0 days	2		100%	16/	9		
5	Portion A-2	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2FS+181 days		100%	 16/			
6	Portion C-1A	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		0 days	2		100%	 16/			
7	Portion C-1B	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		0 days	2		100%	 16/			
3 9	Portion C-2A Portion C-2B	0 days 0 days	Mon 16/9/19 Mon 16/9/19	Mon 16/9/19 Mon 16/9/19	Mon 16/9/19 Mon 16/9/19		0 days 0 days	2		100% 100%	 ♦ 16/ ♦ 16/			
0	Portion C-2C	0 days 0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		0 days	2		100 %	 16/ 16/			
1	Portion C-2D	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		0 days	2		100%	 16/			
2	Portion C-3	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		0 days	2		100%	16/	9		
3	Portion C-4	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	16/			
4	Portion C-5	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		0 days	2		100%	 16/			
5	Portion C-6	0 days	Sat 14/3/20	Sat 14/3/20	Sat 14/3/20		0 days	2FS+181 days	436,411	100%	 40/0 40/	14/3		
6 7	Works Area WA1 Works Area WA2-A	1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		0 days	2		100% 100%	 16/9 16/9 16/9 16/9			
7 8	Key Date (cal. day)	1 day	Mon 16/9/19 Tue 17/9/19	Mon 16/9/19 Mon 3/1/22	Mon 16/9/19 Tue 17/9/19		0 days <b>0 days</b>	2		100% 45%	 17/9	,	<b>A</b>	]
9	KD1A (525 days after starting date)		Tue 17/9/19	Mon 22/2/21	Tue 17/9/19		0 days	2FS+1 day	55	63%	 17/5			
0	KD2A (660 days after starting date)	,	Tue 17/9/19	Wed 7/7/21	Tue 17/9/19		0 days	2FS+1 day	61	50%			•	↓ -=/-
1	KD3A (740 days after starting date)		Tue 17/9/19	Sat 25/9/21	Tue 17/9/19		-119.5 days		67	42%			$\mathbf{O}$	♦ 2
2	KD3B (725 days after starting date)		Tue 17/9/19	Fri 10/9/21	Tue 17/9/19	) NA	-111.5 days	2FS+1 day	73	42%			•	♦ 10
3	KD3C (750 days after starting date)		Tue 17/9/19	Tue 5/10/21	Tue 17/9/19		,		78	41%			•	• !
4	KD3D (660 days after starting date)	,	Tue 17/9/19	Wed 7/7/21	Tue 17/9/19		-118.5 days		83	47%			•	♦ 7/7
5	KD3E (840 days after starting date)		Tue 17/9/19	Mon 3/1/22	Tue 17/9/19		,	2FS+1 day	88	37%	17/0		•	4
6 7	Completion Date (cal. day) Section 1 of Works (675 days after starting date)		s Tue 17/9/19 Tue 17/9/19	Wed 22/1/25 Thu 22/7/21	Tue 17/9/19 Tue 17/9/19		<b>0 days</b> 0 days	2FS+1 day	93	<b>29%</b> 82%	17/9		•	• 22/7
8	Section 2 of Works (1,295 days after starting date)		Tue 17/9/19	Mon 3/4/23	Tue 17/9/19		0 days 0 days	2FS+1 day	99	25%				ĭ ▼ 22/1
9	Section 3 of Works (1,120 days after starting date)		5 Tue 17/9/19	Mon 10/10/22	Tue 17/9/19		-121.5 days		105	28%				1
0	Section 4 of Works (900 days after starting date)		Tue 17/9/19	Fri 4/3/22	Tue 17/9/19	) NA	,	2FS+1 day	111	35%			•	4
1	Section 5 of Works (1,590 days after starting date)	1590 days	s Tue 17/9/19	Tue 23/1/24	Tue 17/9/19	) NA	-123.5 days	2FS+1 day	32,33,117	20%			•	1
2	Defect Liability Period		Wed 24/1/24	Wed 22/1/25	NA		0 days	31		0%				
3	Soft Landscape Establishment Works		Wed 24/1/24	Wed 22/1/25	NA		0 days	31		0%				0/0
4 <mark>*</mark> 5 KD1A	Planned Completion - Key Date (cal. day) KD1A (525 days after starting date)	0 days	Wed 8/9/21 Wed 8/9/21	Tue 31/5/22 Wed 8/9/21	NA NA		-198 days	53FF,246FF,460FF		<b>0%</b>				8/9
6 KD2A		0 days 0 days	Thu 18/11/21	Thu 18/11/21	NA NA		-130 days			0%				0,0
7 KD3A		0 days	Mon 4/4/22	Mon 4/4/22	NA			65FF,267FF		0%				
8 KD3B	· · · · · · · · · · · · · · · · · · ·	0 days	Tue 1/3/22	Tue 1/3/22	NA			71FF,288FF		0%				
9 KD3C	KD3C (750 days after starting date)	0 days	Thu 27/1/22	Thu 27/1/22	NA	NA NA	-113.5 days	76FF,301FF		0%				
0 KD3D	· · · · · · · · · · · · · · · · · · ·	0 days	Sat 30/10/21	Sat 30/10/21	NA		-115 days	81FF,329FF		0%				•
1 KD3E	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 days	Tue 31/5/22	Tue 31/5/22	NA			86FF,314FF,342FF,348FF,354	F	0%				10/11
2 <mark>*</mark> 3 SW1	Planned Completion - Section of the Works (cal. day)	_	s Tue 16/11/21	Fri 6/6/25	NA NA		-116.5 days			<b>0%</b>				16/11
4 SW2	Section 1 of Works (675 days after starting date) Section 2 of Works (1,295 days after starting date)	0 days 0 days	Tue 16/11/21 Mon 7/8/23	Tue 16/11/21 Mon 7/8/23	NA NA			91FF,433FF 97FF,520FF,532FF		0%				
5 SW3	Section 3 of Works (1,120 days after starting date)	0 days	Fri 10/2/23	Fri 10/2/23	NA		,	103FF,170FF,303FF,315FF,33	1	0%				
6 SW4	Section 4 of Works (900 days after starting date)		Fri 8/7/22	Fri 8/7/22	NA		,	109FF,367FF,372FF,376FF,41		0%				
7 SW5	Section 5 of Works (1,590 days after starting date)	0 days	Thu 6/6/24	Thu 6/6/24	NA			115FF,248FF,271FF,291FF,30		0%				
8	Defect Liability Period	365 days	Thu 6/6/24	Fri 6/6/25	NA	NA NA	0 days	47		0%				
9	Soft Landscape Establishment Works		Thu 6/6/24	Fri 6/6/25	NA		0 days			0%				
0	Delaying Events Other than Change of Works Information		rs Tue 23/2/21	Thu 6/6/24	NA		-99.5 days			0%				/2
1 2	Inclement Weather to KD1A		Sat 6/3/21	Thu 24/6/21	NA		-97.5 days		53	0%				6/3 24/6 6/3 21/6
2 3 KD1A	Delay and Disruption of Works before Feb 2021 Delay and Disruption of Works for the month of Feb 2021 (NCE no.165)		Sat 6/3/21 Mon 21/6/21	Mon 21/6/21 Thu 24/6/21	NA NA		-97.5 days		35 35FF	0% 0%				21/6 24/6
		5 days	WOT 2 1/0/2 1	1110 24/0/21	1.		-01.0 uuyo	52	0011	070				21/0 24/0
4	Other Events affected to KD1A	10 days	Tue 23/2/21	Fri 5/3/21	NA		-97.5 days			0%				/2 🛯 5/3
5	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no.	6 days	Tue 23/2/21	Mon 1/3/21	NA	NA NA	-97.5 days	19	56	0%			23	3/2 🛯 1/3
6	0003) Special Arrangement for Work After CNY due to Spread of Novel	4 days	Tue 2/3/21	Fri 5/3/21	NA	NA	-97.5 days	55	52	0%				2/3 5/3
	Coronavirus (PMI no.005)	. aayo					55 days			0 /0			-	
7	Inclement Weather to KD2A		Tue 20/7/21	Thu 4/11/21	NA		-99.5 days			0%				20/7
8	Delay and Disruption of Works before Feb 2021	86.5 days	Tue 20/7/21	Mon 1/11/21	NA	NA NA	-99.5 days	62	59	0%				20/7
9 KD2A	Delay and Disruption of Works for the month of Feb 2021 (NCE no.165)	3 dave	Mon 1/11/21	Thu 4/11/21	NA	NIA	-99.5 days	58	36FF	0%				1/11
	Longy and Disruption of Works for the month of Feb 2021 (NOE 110, 105)	o uays	MOI: 1/11/21	1110 4/11/21	INF		-55.5 uays		0011	0 /0				
0	Other Events affected to KD2A	10 days	Thu 8/7/21	Mon 19/7/21	NA		-99.5 days			0%				8/7 📗 19/7
1	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no.	6 days	Thu 8/7/21	Wed 14/7/21	NA	NA NA	-99.5 days	20	62	0%				8/7 🛯 14/7
2	0003) Special Arrangement for Work After CNY due to Spread of Novel	4 days	Thu 15/7/21	Mon 19/7/21	NA	NA	-99.5 days	61	58	0%				15/7   19/7
	Coronavirus (PMI no.005)	, uuyo	110 10/1/21	MOIT TOTTLE	INF		00.0 uayo	•		0 /0				
3	Inclement Weather to KD3A	89.5 days	Sat 9/10/21	Wed 26/1/22	NA		-99.5 days			0%				9/10
4	Delay and Disruption of Works before Feb 2021	86.5 days	Sat 9/10/21	Sat 22/1/22	NA	NA NA	-99.5 days	68	65	0%				9/10 📕
5 KD3A	Delay and Disruption of Works for the month of Feb 2021 (NCE no.165)	3 days	Sat 22/1/22	Wed 26/1/22	NA	NIA.	-99.5 days	64	37FF	0%				2
USA	Deray and Disruption of Works for the month of Feb 2021 (NGE N0. 105)	o uays	Jai 22/ 1/22	WEU 20/1/22	IN/	NA NA	-33.0 days	τu	orti	U 70				2
6	Other Events affected to KD3A	10 days	Mon 27/9/21	Fri 8/10/21	NA		-99.5 days			0%				27/9 📗 8
7	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no.	6 days	Mon 27/9/21	Mon 4/10/21	NA	NA NA	-99.5 days	21	68	0%				27/9 🛚 4/
	0003)													1

## Executive Summary (Status Date: 20/03/2021)

Status Date: 20 Mar 21



### Comple Bisk Allowan May 68 Fri 8/10/21 Special Arrangement for Work After CNY due to Spread of Novel Tue 5/10/21 NA -99.5 days 67 4 davs NA 64 0% Coronavirus (PMI no.005) 69 89.5 days Thu 16/9/21 Wed 5/1/22 NA -93.5 days 16/9 5/1 Inclement Weather to KD3B NA 0% 70 Delay and Disruption of Works before Feb 2021 86.5 days Thu 16/9/21 Fri 31/12/21 NA NA -93.5 days 73 71 0% 16/9 71 KD3B Delay and Disruption of Works for the month of Feb 2021 (NCE no.165) Fri 31/12/21 Wed 5/1/22 NA NA -93.5 days 70 38FF 0% 3 davs 72 11/9 🛚 15/9 Other Events affected to KD3B 4 days Sat 11/9/21 Wed 15/9/21 NA NA -93.5 davs 0% Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005) 73 Sat 11/9/21 Wed 15/9/21 NA NA -93.5 days 22 70 0% 11/9 15/9 4 days 74 11/10 27/1 89.5 days Mon 11/10/21 NA Inclement Weather to KD3C Thu 27/1/22 NA -93.5 days 0% 11/10 24/1 76 75 Delay and Disruption of Works before Feb 2021 86.5 days Mon 11/10/21 Mon 24/1/22 NA NA -93.5 days 78 0% 76 KD3C Delay and Disruption of Works for the month of Feb 2021 (NCE no. 165) Mon 24/1/22 Thu 27/1/22 NA NA -93.5 days 75 39FF 0% 3 days 6/10 **m** 9/10 77 Other Events affected to KD3C Wed 6/10/21 Sat 9/10/21 NA NA -93.5 days 4 days 0% 78 75 6/10 9/10 Special Arrangement for Work After CNY due to Spread of Novel Wed 6/10/21 Sat 9/10/21 NA NA -93.5 days 23 0% 4 days Coronavirus (PMI no.005) 79 Inclement Weather to KD3D 89.5 days Tue 13/7/21 Thu 28/10/21 NA NA -93.5 days 0% 13/7 28/10 Delay and Disruption of Works before Feb 2021 80 86.5 days Tue 13/7/21 Mon 25/10/21 NA NA -93.5 days 83 81 0% 13/7 25/10 81 KD3D 25/10 | 28/10 NA Delay and Disruption of Works for the month of Feb 2021 (NCE no 165) 3 davs Mon 25/10/21 Thu 28/10/21 NA -93.5 days 80 40FF 0% 82 8/7 🛚 12/7 Other Events affected to KD3D Thu 8/7/21 Mon 12/7/21 4 davs NA NA -93.5 days 0% 83 Special Arrangement for Work After CNY due to Spread of Novel 80 8/7 12/7 4 days Thu 8/7/21 Mon 12/7/21 NA NA -93.5 days 24 0% Coronavirus (PMI no.005) 84 Inclement Weather to KD3E 89.5 days Sat 8/1/22 Sat 30/4/22 NA NA -93.5 days 0% 85 Delay and Disruption of Works before Feb 2021 NA 86 86.5 days Sat 8/1/22 Wed 27/4/22 NA -93.5 days 88 0% 86 KD3E Delay and Disruption of Works for the month of Feb 2021 (NCE no.165) 3 days Wed 27/4/22 Sat 30/4/22 NA NA -93.5 days 85 41FF 0% 87 Other Events affected to KD3E 4 days Tue 4/1/22 Fri 7/1/22 NA NA -93.5 days ٥% 88 Special Arrangement for Work After CNY due to Spread of Novel Fri 7/1/22 NA NA -93.5 days 25 85 0% 4 days Tue 4/1/22 Coronavirus (PMI no.005) 89 4/8 16/11 Inclement Weather to Section 1 of the Works 86.5 days Wed 4/8/21 Tue 16/11/21 NA NA -96.5 days 0% 90 Delay and Disruption of Works before Feb 2021 83.5 days Wed 4/8/21 Fri 12/11/21 NA NA -96.5 days 94 91 0% 4/8 12/11 91 SW1 43FF 12/11 | 16/11 Delay and Disruption of Works for the month of Feb 2021 (NCE no 165) Tue 16/11/21 NA NA -96.5 days 90 3 days Fri 12/11/21 0% 92 Other Events affected to Section 1 of the Works Fri 23/7/21 Tue 3/8/21 23/7 1 3/8 10 days NA NA -96.5 days 0% 93 Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. Fri 23/7/21 Thu 29/7/21 NA NA -96.5 days 27 94 23/7 29/7 6 davs 0% 0003) 94 Special Arrangement for Work After CNY due to Spread of Novel 4 days Fri 30/7/21 Tue 3/8/21 NA NA -96.5 days 93 90 0% 30/7 3/8 Coronavirus (PMI no.005) 95 Inclement Weather to Section 2 of the Works 89.5 days Thu 20/4/23 Mon 7/8/23 NA NA -99.5 days 0% 96 Delay and Disruption of Works before Feb 2021 86.5 days Thu 20/4/23 Thu 3/8/23 NA NA -99.5 days 100 97 0% 97 SW2 NA 44FF Delay and Disruption of Works for the month of Feb 2021 (NCE no. 165) Mon 7/8/23 NA -99.5 days 96 3 days Thu 3/8/23 0% 98 Tue 4/4/23 Wed 19/4/23 NA Other Events affected to Section 2 of the Works 10 days NA -99.5 days 0% 100 99 Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 6 days Tue 4/4/23 Fri 14/4/23 NA NA -99.5 days 28 0% 0003) 100 Special Arrangement for Work After CNY due to Spread of Novel Sat 15/4/23 Wed 19/4/23 NA NA -99.5 days 99 96 0% 4 davs Coronavirus (PMI no.005) 101 Inclement Weather to Section 3 of the Works 89.5 days Sat 22/10/22 Fri 10/2/23 NA NA -99.5 days 0% 103 102 Delay and Disruption of Works before Feb 2021 86.5 days Sat 22/10/22 Tue 7/2/23 NA NA -99.5 days 106 0% 103 SW3 NA 45FF Delay and Disruption of Works for the month of Feb 2021 (NCE no.165) 3 davs Tue 7/2/23 Fri 10/2/23 NA -99.5 days 102 0% 104 Other Events affected to Section 3 of the Works Tue 11/10/22 Fri 21/10/22 NA -99.5 days 10 days NA 0% 105 Mon 17/10/22 106 Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. Tue 11/10/22 NA 6 days NA -99.5 days 29 0% 0003) 106 Special Arrangement for Work After CNY due to Spread of Novel Tue 18/10/22 Fri 21/10/22 NA NA -99.5 days 105 102 0% 4 days Coronavirus (PMI no.005) 107 Fri 8/7/22 Inclement Weather to Section 4 of the Works 89.5 days Thu 17/3/22 NΔ NA -99.5 days ٥% 108 Delay and Disruption of Works before Feb 2021 86.5 days Thu 17/3/22 Tue 5/7/22 NA NA -99.5 days 112 109 0% 109 SW4 Delay and Disruption of Works for the month of Feb 2021 (NCE no.165) Fri 8/7/22 46FF Tue 5/7/22 NA NA -99.5 days 108 3 days 0% 110 Other Events affected to Section 4 of the Works 10 days Sat 5/3/22 Wed 16/3/22 NA NA -99.5 days 0% 111 112 Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. Sat 5/3/22 Fri 11/3/22 6 days NA NA -99.5 days 30 0% 0003 112 Special Arrangement for Work After CNY due to Spread of Novel Sat 12/3/22 Wed 16/3/22 NA NA -99.5 days 111 108 0% 4 days Coronavirus (PMI no.005) 113 Inclement Weather to Section 5 of the Works 89.5 days Mon 5/2/24 Thu 6/6/24 NA NA -99.5 days 0% 114 Delay and Disruption of Works before Feb 2021 86.5 days Mon 5/2/24 Mon 3/6/24 NA NA -99.5 days 118 115 0% 115 SW5 47FF Delay and Disruption of Works for the month of Feb 2021 (NCE no.165) Thu 6/6/24 NA NA -99.5 days 114 0% 3 davs Mon 3/6/24 116 Other Events affected to Section 5 of the Works 10 days Wed 24/1/24 Sat 3/2/24 NA -99.5 days 0% 117 Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 6 days Wed 24/1/24 Tue 30/1/24 NA NA -99.5 days 31 118 0% 0003)

Actual Start

Actual Finish

Finish

Duration Start

### Contract No.: DC/2018/06 Contract Title: Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation

ID

KD Task Name

## Executive Summary (Status Date: 20/03/2021)

Successors

Time

Total Slack Predecessors

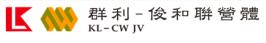
Status Date: 20 Mar 21

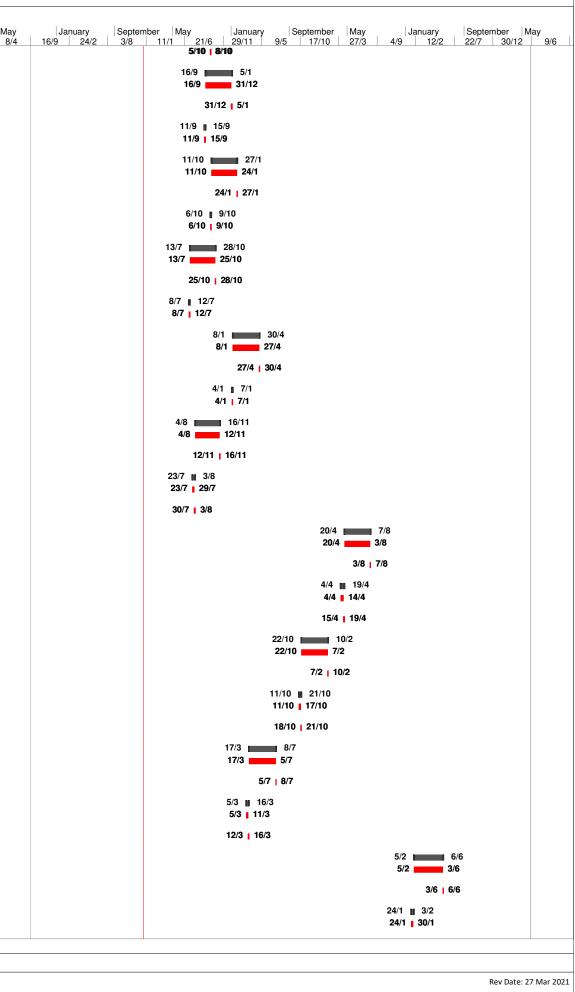
Critical Split Task

Milestone 🔶

Summary

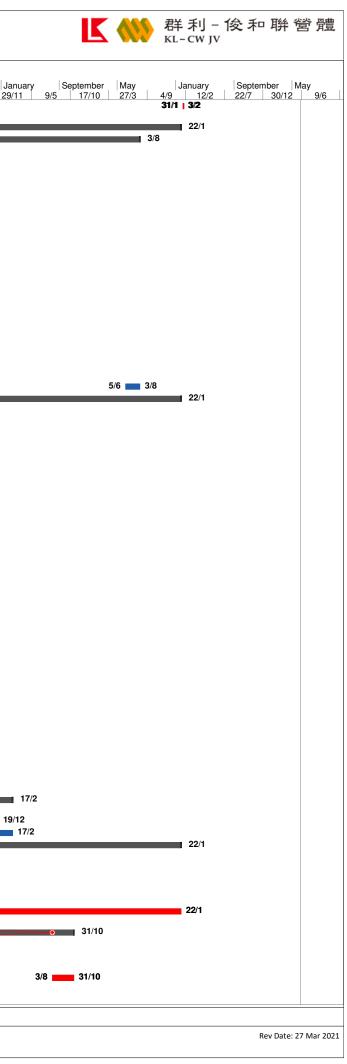
Critical





## Executive Summary (Status Date: 20/03/2021)

									Allowan	May 8/4		eptember May 3/8 11/1	y 21/
Coronavirus (PMI no.005)	4 days	Wed 31/1/24	Sat 3/2/24	NA	NA	,.	117	114	0%				
		Mon 16/9/19 Mon 16/9/19	Mon 22/1/24 Thu 3/8/23	Mon 16/9/19 Mon 16/9/19	NA NA				68% 68%	16/9 16/9			
		Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		2	122	100%	16/9			-
	,	Mon 16/9/19	Mon 7/10/19	Mon 16/9/19	Mon 7/10/19	,	121	124,126,123,125,133,13			7/10		
1 0	,	Mon 7/10/19	Wed 6/11/19	Mon 7/10/19	Wed 6/11/19	,	122	121,120,120,120,120,100,10	100%		6/11		
	,	Tue 8/10/19	Wed 20/11/19	Tue 8/10/19	Wed 20/11/19	,	122	429	100%	8/10	20/11		
Pumping Station No.1 (NCE no. 3)													
		Tue 22/10/19	Wed 12/2/20	Tue 22/10/19	Wed 12/2/20	,	122	213	100%		0 12/2		
5 0 ( )		Tue 8/10/19	Thu 28/11/19	Tue 8/10/19	Thu 28/11/19		122	127SS+15 days,128SS+		-	28/11		
•		Fri 13/12/19	Fri 3/1/20	Fri 13/12/19	Fri 3/1/20		126SS+15 days	494,257,279,297,310,32		-	3/12   3/1		
	,	Fri 25/10/19	Wed 27/11/19	Fri 25/10/19	Wed 27/11/19		126SS+15 days	131,130,144,136	100%	-	0  27/11		
	,	Wed 30/10/19	Mon 25/11/19 Fri 20/3/20	Wed 30/10/19 Wed 8/1/20	Mon 25/11/19 Fri 20/3/20	,	122 128	231,261,282,299,313,32		30/1	0 25/11 8/1 20/3		
	58 days 60 days	Wed 8/1/20 Mon 1/6/20	Thu 30/7/20	NA	FII 20/3/20 NA	,	128	231,261,282,299,313,32 283,300,314,502,371,34		1	1/6 • 30/	7	
	,	Mon 6/7/20	Thu 3/9/20	NA	NA	,	2	236,239,242,262,315,35		<sup> </sup>	6/7 • 3		
	60 days	Mon 4/1/21	Thu 4/3/21	NA	NA	,	122	247,270,290,303,315,33				4/1 4/3	
	12 days	Thu 20/2/20	Mon 2/3/20	Thu 20/2/20	Mon 2/3/20	,	122	429,135	100%		20/2 2/3		
System no.1 (Diversion)	_ 3090			1110 2012120	10017 210/20	5 days		0,100		1			
	22 days	Wed 15/4/20	Wed 6/5/20	Wed 15/4/20	Wed 6/5/20	0 days	134		100%		15/4 🔳 6/5		
	,	Wed 15/4/20	Wed 6/5/20	Wed 15/4/20	Wed 6/5/20	,	128	472,469,470,471,468	100%	1	15/4 🔳 6/5		
	7 days	Wed 22/4/20	Tue 28/4/20	Wed 22/4/20	Tue 28/4/20		122	436	100%	1	22/4 28/4		
	,	Thu 9/1/20	Thu 20/2/20	Thu 9/1/20	Thu 20/2/20		122	151	100%	1	9/1 20/2		
	,	Mon 5/6/23	Thu 3/8/23	NA	NA	,	122	483	0%	1.0.0			_
		Mon 16/9/19	Mon 22/1/24	Mon 16/9/19	NA	•		0.50	62%	16/9			_
	1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2	253	100%	16/9			
	,	Mon 16/9/19	Thu 6/8/20	Mon 16/9/19	NA	,	2	253	90%	16/9 20/9			
Prepare, submit & approve the layout plan of the Temporary Site accommodation	51 days	Fri 20/9/19	Thu 6/8/20	Fri 20/9/19	NA	0 days	2	213	90%	20/9	<b>●</b>	,	
	207 days	Thu 24/10/19	Sun 21/6/20	Thu 24/10/19	Sun 21/6/20	0 days	128	231,261,282,299,313,32	4 100%	24/1	0 21/6		
	,	Tue 21/4/20	Tue 16/6/20	Tue 21/4/20	Tue 16/6/20		2	146,429	100%		21/4 16/6		
	13 days	Wed 17/6/20	Mon 29/6/20	Wed 17/6/20	Mon 29/6/20	0 days	145	429	100%		17/6 🛯 29/6		
TTA Management	348 davs	Mon 16/9/19	Fri 28/8/20	Mon 16/9/19	NA	439 days			85%	16/9	<u>⊘</u> =⊂2	28/8	
	,	Mon 16/9/19	Mon 29/6/20	Mon 16/9/19	NA			521	99%	16/9			
	,	Mon 7/10/19	Thu 16/7/20	Mon 7/10/19	NA		2FS+21 days		80%	7/10	<u>○ 16/7</u>		
Prepare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion	67 days	Mon 16/9/19	Thu 21/11/19	Mon 16/9/19	Thu 21/11/19		2	429	100%	16/9	21/11		
Prepare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation	45 days	Wed 15/7/20	Fri 28/8/20	Wed 15/7/20	NA	439 days	138	523	0%		15/7 🗨 2	8/8	
Environmental Aspect Submissions	332 days	Mon 16/9/19	Wed 12/8/20	Mon 16/9/19	NA	0 days	2		98%	16/9		2/8	
	1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	,	2	253	100%	18/9			
	1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	,	2	253	100%	18/9			
Apply & approve for a Billing Account for Disposal of Construction Waste		Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	,	2	253	100%	18/9			
		Thu 9/1/20	Mon 3/8/20	Thu 9/1/20	NA		2	253	90%		9/1 📕 💮 🛞 3/8	$\sim$	
		Fri 20/9/19	Fri 20/9/19	Fri 20/9/19	Fri 20/9/19	,	2	253	100%		20/9		
•	,	Mon 16/9/19	Tue 14/1/20	Mon 16/9/19	Tue 14/1/20		2	159	100%	16/9	14/1	10	
		Tue 14/1/20	Wed 12/8/20	Tue 14/1/20 Mon 16/9/19	NA		158	253	80% 100%	16/0	14/1 <b></b> ⊛ <mark>⊲12</mark> ∎ 24/9	<u>, u</u>	
	9 days	Mon 16/9/19 Tue 24/9/19	Tue 24/9/19 Fri 29/5/20	Mon 16/9/19 Tue 24/9/19	Tue 24/9/19 Fri 29/5/20		2	253	100%	24/9			
	249 days 9 days	Mon 16/9/19	Tue 24/9/19	Mon 16/9/19	Tue 24/9/19		2	163	100%		29/5		
		Tue 24/9/19	Tue 21/1/20	Tue 24/9/19	Tue 24/3/19 Tue 21/1/20		162	253	100%		21/1		
		Mon 16/9/19	Mon 30/9/19	Mon 16/9/19	Mon 30/9/19		2	165	100%	-	30/9		
		Mon 30/9/19	Wed 6/11/19	Mon 30/9/19	Wed 6/11/19		164	253	100%	-	6/11		
		Mon 16/9/19	Fri 3/4/20	Mon 16/9/19	Fri 3/4/20		2	167	100%	16/9			
		Fri 20/12/19	Mon 3/8/20	Fri 20/12/19	NA		166	429	90%	2	0/12	$\leq$	
Prepare, submit & approve for the FSD submissions for CLP 132kV Substation	90 days	Sat 20/11/21	Thu 17/2/22	NA	NA	357.5 days			0%				20
	30 days	Sat 20/11/21	Sun 19/12/21	NA	NA	357.5 days		170	0%	1			20
		Mon 20/12/21	Thu 17/2/22	NA	NA	,	169	45FF	0%	1			
		Mon 16/9/19	Mon 22/1/24	Mon 16/9/19	NA	,			36%	16/9	<b>●</b>		
		Fri 4/10/19	Tue 14/4/20	Fri 4/10/19	Tue 14/4/20	-	2	210	100%	4/10	14/4		
Prepare and submit and approve the Method Statement of Erection of the	26 days	Mon 16/9/19	Fri 11/10/19	Mon 16/9/19	Fri 11/10/19	0 days	2	210	100%	16/9	11/10		
protective fencing Prepare and submit and approve the Method Statement of Tree felling,	74 days	Fri 11/10/19	Mon 23/12/19	Fri 11/10/19	Mon 23/12/19	0 days	2	210,252	100%	11/10	23/12		
Preservation, Prunning works & Transplanting	,	Mon 16/9/19	Mon 22/1/24	Mon 16/9/19	NA	•	2		20%	16/9			
						5 00,0							
	-	Fri 20/9/19	Mon 31/10/22	Fri 20/9/19	NA	0 days			64%	20/9			
		Thu 26/9/19	Fri 17/1/20	Thu 26/9/19	Fri 17/1/20		2	223	100%	26/9			
Prepare, submit & approve for commencement of Works near MTRCL	43 days	Fri 20/9/19	Fri 1/11/19	Fri 20/9/19	Fri 1/11/19	0 days	2	491	100%	20/9	1/11		
protection zone at Sun Wan Road from MTRCL	00 day-	Mod 2/0/00	Mon 21/10/00	A1A	<b>K</b> 1A	0 daur		170 170 101 10000 101	00/	1			
Prepare, submit & approve for commencement Works along the riverbank by DSD	90 days	Wed 3/8/22	Mon 31/10/22	NA	NA	0 days		478,479,481,480FS+124 days	0%	1			
	506 days	Mon 16/9/19	Tue 2/2/21	Mon 16/9/19	NA	198 days			81%	16/9	•	2/2	
													ŝ

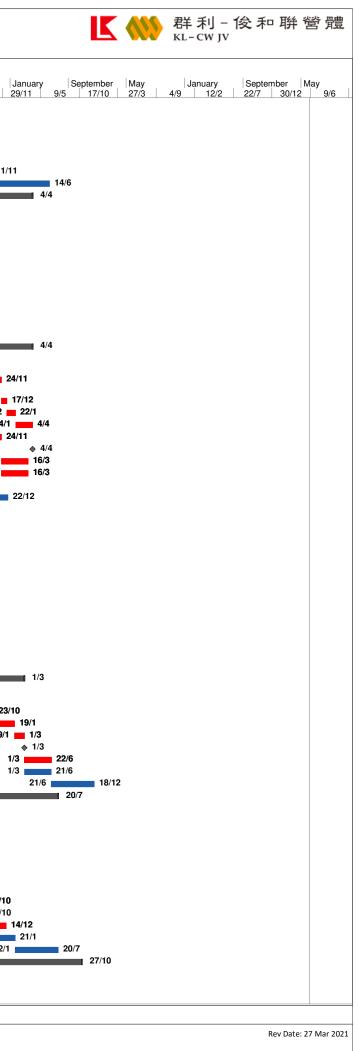


WORKS IOF	Sludge Treatment Facilities and 132kV Primary Substation										
KD Ta	ask Name	Duration	Start	Finish	Actual Start A	ctual Finish	Total Slack	Predecessors		% Time Comple Risk Allowan	an May January September May January September May January September
	Prepare and submit the Procurement Procedure	34 days	Mon 16/9/19	Sat 19/10/19	Mon 16/9/19	Sat 19/10/19	0 days	2	182	100%	8/4 16/9 24/2 3/8 11/1 21/6 29/11 9/5 17/10 27/3 4/9 12/2 22/7 30/ 16/9 19/10
	•	,	Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	0 days	181	183,200,204,205,206,207	100%	♦ 19/10
	Pipe works material	408 days	Fri 8/11/19	Sat 19/12/20	Fri 8/11/19	NA		182		78%	8/11 19/12
			Tue 12/11/19	Thu 28/5/20	Tue 12/11/19	Thu 28/5/20	)-	2	185	100%	
			Thu 28/5/20 Fri 8/11/19	Sat 19/12/20 Mon 25/11/19	Thu 28/5/20 Fri 8/11/19	Sat 19/12/20 Mon 25/11/19		184 185	186 428.429	100% 100%	28/5 19/12
			Mon 16/12/19	Tue 18/8/20	Mon 16/12/19	NOI 25/11/19	0 days 127 days	00	428,429	29%	
			Thu 19/12/19	Tue 17/3/20	Thu 19/12/19	Tue 17/3/20	0 days	2	189	100%	19/12 17/3
			Tue 17/3/20	Tue 14/4/20	Tue 17/3/20	Tue 14/4/20	0 days	188	190	100%	17/3 14/4
			Wed 18/12/19	Tue 21/1/20	Wed 18/12/19	Tue 21/1/20		189	471	100%	♦ 21/1
			Tue 21/1/20	Tue 26/5/20	Tue 21/1/20	Tue 26/5/20		2FS+120 days	192	100%	21/1 26/5
			Tue 26/5/20 Fri 8/5/20	Tue 16/6/20 Mon 8/6/20	Tue 26/5/20 Fri 8/5/20	Tue 16/6/20 Mon 8/6/20	0 days 0 days	191 192	193 470,471	100% 100%	26/5 <b>■</b> 16/6
			Fri 1/5/20	Fri 8/5/20	Fri 1/5/20	Fri 8/5/20		2	195	100%	1/5 8/5
			Sat 9/5/20	Wed 5/8/20	Sat 9/5/20	Wed 5/8/20		194	196	100%	9/5 5/8
		90 days	Wed 5/8/20	Tue 3/11/20	NA	NA	-	195	468	0%	5/8 🛛 3/11
	Prepare & submit mild steel steel pipe material particular	1 day	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	0 days	2	198	100%	19/12   19/12
			Thu 19/12/19	Sat 18/1/20	Thu 19/12/19	Sat 18/1/20	0 days	197	199	100%	19/12 18/1
	· · · · · · · · · · · · · · · · · · ·		Mon 9/12/19	Sat 30/5/20	Mon 9/12/19	Sat 30/5/20	0 days	198	468	100%	9/12 30/5
			Wed 16/10/19	Mon 3/8/20	Wed 16/10/19	Mon 3/8/20 Sat 1/8/20	0 days	182 255+60 days	202	100% 100%	16/10 3/8 16/10 1/8
	•	,	Wed 16/10/19 Fri 6/12/19	Sat 1/8/20 Sat 1/8/20	Wed 16/10/19 Fri 6/12/19	Sat 1/8/20 Sat 1/8/20		2FS+60 days 201	202 203	100% 100%	
			Tue 4/2/20	Mon 3/8/20	Tue 4/2/20	Mon 3/8/20		202	502,412,376,371,366,360	100%	4/2 3/8
	material										
			Fri 5/6/20	Mon 15/6/20	Fri 5/6/20	Mon 15/6/20	0 days	182	283,300,314,502	100%	5/6 15/6
			Fri 6/12/19	Tue 2/6/20	Fri 6/12/19	Tue 2/6/20	0 days	182	283,300,314,502	100%	6/12 2/6 11/5
	1 2 11		Mon 11/5/20 Mon 4/1/21	Tue 9/6/20 Tue 2/2/21	NA	NA NA	,	206,182	207,283,300,314,502 247,270,290,303,315,331	0% 0%	4/1 2/2
S			s Mon 16/9/19	Thu 8/10/20	Mon 16/9/19	Thu 8/10/20	,	200,102	241,210,200,000,010,001	100%	16/9 8/10
	•		Thu 21/11/19	Tue 26/11/19	Thu 21/11/19	Tue 26/11/19		2	210	100%	21/11   26/11
	Hoarding Erection at Portion C	0 days	Wed 27/11/19	Sat 29/2/20	Wed 27/11/19	Sat 29/2/20	0 days	209,172,173,174,211,129		100%	♦ 29/2
			Sun 15/12/19	Mon 30/12/19	Sun 15/12/19	Mon 30/12/19	,	182	210	100%	15/12 🛛 30/12
			Mon 16/9/19	Mon 30/12/19	Mon 16/9/19	Mon 30/12/19		2	213FF	100%	16/9 30/12
* 0			Thu 6/8/20	Thu 8/10/20	Thu 6/8/20	Thu 8/10/20		143,212FF,125		100%	6/8 8/10 16/9 16/9 16/1
*			Mon 16/9/19 Mon 16/9/19	Sat 16/11/24 Tue 14/6/22	Mon 16/9/19 Mon 16/9/19		0 days 480 days			16% 58%	16/9
	, ,		Mon 16/9/19	Tue 4/2/20	Mon 16/9/19	Tue 4/2/20				100%	16/9 4/2
			Mon 16/9/19	Mon 14/10/19	Mon 16/9/19	Mon 14/10/19	-	2	218	100%	16/9 14/10
		6 days	Tue 15/10/19	Sun 20/10/19	Tue 15/10/19	Sun 20/10/19		217	219	100%	15/10 20/10
			Tue 15/10/19	Sat 19/10/19	Tue 15/10/19	Sat 19/10/19	0 days	218	220	100%	15/10 I 19/10
			Mon 14/10/19		Mon 14/10/19	Tue 5/11/19		219	221,224	100%	
			Tue 10/12/19		Tue 10/12/19	Tue 10/12/19			223,222	100%	10/12   10/12 30/11 <b>4</b> /1
	Additional Liaison and diversion of HyD Street Light Cables (NCE no. 0007)	28 days	Sat 30/11/19	Sat 4/1/20	Sat 30/11/19	Sat 4/1/20	0 days	221	223	100%	3011 41
	Removal of Existing Street light and Provision of Temporary Street light	8 days	Thu 23/1/20	Tue 4/2/20	Thu 23/1/20	Tue 4/2/20	0 days	177,221,222	428	100%	23/1 4/2
	(PMI no.005, NCE no. 0022)	10.1		T 10/10/10				000	005	10001	
			Wed 27/11/19 Thu 19/12/19	Tue 10/12/19 Thu 19/12/19	Wed 27/11/19 Thu 19/12/19	Tue 10/12/19	0 days	220	225 227,226	100% 100%	27/11 10/12 19/12 19/12
	Sheetpile Installation (FSP IV, 2200sg.m, 1 Rig)- stage 1 (NCE no. 18A, 22 &		Sat 4/1/20	Wed 6/5/20	Sat 4/1/20	Thu 19/12/19 Wed 6/5/20	,	225	228,230	100% 6.5,2.5,8	
	25, 27)	57 uays	Jal 4/ 1/20	Wed 0/5/20	Sat 4/ 1/20	Wed 0/5/20	0 uays	225	220,230	100 /0 0.0,2.0,0	
	Setting up plant for pre-bored socked H-pile Installation	0 days	Mon 4/5/20	Thu 7/5/20	Mon 4/5/20	Thu 7/5/20	0 days	225,228SS-5 days		100%	♦ 7/5
	Pre-bored Socketed H-Pile Installation (34 Nos, 1 Rig, 3days/rig/pile) (NCE	57 days	Thu 7/5/20	Tue 14/7/20	Thu 7/5/20	Tue 14/7/20	0 days	127,431,226	229,321,227SS-5	100% 40	7/5 14/7
	no. 32, 41, 49) Pile Loading Test	26 dave	Wed 15/7/20	Thu 13/8/20	Wed 15/7/20	Thu 13/8/20	0 days	228,311FS+5 days	days,462 340FS+5 days,230	100%	15/7 🔳 13/8
			Fri 14/8/20	Tue 8/9/20	Fri 14/8/20	Tue 8/9/20		229,226	231FS-10 days	100% 17	14/8 8/9
								,	,		
	ELS Works (incl. Strut (4-layers) Installation & Excavation (3,700 cu.m) (NCE no.69)	48 days	Fri 28/8/20	Sat 24/10/20	Fri 28/8/20	Sat 24/10/20	0 days	144,130,129,230FS-10 days	232	100% 8	28/8 24/10
	,	17 days	Mon 26/10/20	Sat 14/11/20	Mon 26/10/20	NA	0 days	231	235	94% 15,2	26/10 💽 14/11
			Mon 16/11/20		Mon 16/11/20		-23 days			58%	16/11 15/7
	• •		Mon 16/11/20		Mon 16/11/20		-23 days	222	000	58% 5	
			Mon 16/11/20	Wed 2/12/20	Mon 16/11/20	Wed 2/12/20		232	236	100%	16/11 = 2/12 3/12 = -27/1
	Walls and Slabs Construction @-1.10mPD to +2.50mPD [CHAX puddle (DN 1200 -> DN1600) (NCE no.0038)] (NCE no. 46, 100)	40 days	Thu 3/12/20	Wed 27/1/21	Thu 3/12/20	Wed 27/1/21	0 days	235,132	238SS+30 days	100%	3/12 👩 27/1
	· · ·		Mon 11/1/21	Wed 24/3/21	Mon 11/1/21	Wed 24/3/21		00000.00.1	000	100% 5	
			Mon 11/1/21	Wed 27/1/21	Mon 11/1/21	Wed 27/1/21		236SS+30 days	239 24155±14 days 432.466	100% 100% 33	11/1 27/1 28/1 22/3
	Walls and Slabs Construction @+1.5mPD to +4.9mPD [Additional CHA & CHL puddle (DN350), Additional CHLA puddle (DN150)	+ο days	111u 20/1/21	Wed 24/3/21	Thu 28/1/21	Wed 24/3/21	0 days	238,132	241SS+14 days,432,466	100% 33	201 2413
	NCE no.0038], (NCE no. 46, 100, 108, 115,120,165)										
	Below Ground Level Stage no.3 @ +3.80mPD	97 days	Wed 17/2/21	Thu 17/6/21	Wed 17/2/21	NA	0 days			28% 5	17/2 17/6
	Base slab Construction (15 sq.m + 40 sq.m) (NCE no. 0083,114)			Fri 19/3/21	Wed 17/2/21	Fri 19/3/21		239SS+14 days	242	100% 14	17/2 🔳 19/3
		50 d	0-1-00/0/01				140 1	120.044	042.045	00/ 04	20/2 2/6
	Walls and Slabs Construction @+3.80mPD to +7.4mPD [CHAW puddle (DN1200-> DN1400), CHBA puddle (DN300), CHAY puddle (DN700 -> DN800) (NCE no.0038)], (NCE no. 46, 100, 120, 130)	oð days	Sat 20/3/21	Wed 2/6/21	NA	NA	-116 days	132,241	243,245	0% 21	20/3 2/6
	Critical Split		Milestone	•	Summary	C	itical	I			

										Comple Risk Allowan	h May January September 8/4 16/9 24/2 3/8 11/1	May
	•	12 days	Thu 3/6/21	Thu 17/6/21	NA	NA	0 days	242		0%	3/	6 📕 17/
	Ŭ,	35 days	Thu 3/6/21	Thu 15/7/21	NA	NA	-116 days			0% 4		
KD1A	Walls, Slabs and staircase Construction @+7.4mPD to 16.4mPD [Additional SP1-3 puddle (DN100 x 2 & DN80) (NCE.0038)], [NCE no. 46], [NCE no.100]	35 days	Thu 3/6/21	Thu 15/7/21	NA	NA	-116 days	242	246,247	0%	3/	6 💻 1
KD1A		0 days	Thu 15/7/21	Thu 15/7/21	NA	NA	47 days	245	35FF	0%		۰ ا
SW1 SW5	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining		Fri 16/7/21	Mon 1/11/21	NA	NA		207,133,245	248	0%	1	16/7
SW5			Tue 2/11/21	Tue 14/6/22	NA	NA		247	47FF	0%	7/10	2
*			Sat 7/12/19	Mon 4/4/22 Fri 13/12/19	Sat 7/12/19	NA	534 days	25105		<b>38%</b> 100%	7/12	
	· · ·		Sat 7/12/19 Sat 14/12/19	Fri 20/12/19	Sat 7/12/19 Sat 14/12/19	Fri 13/12/19 Fri 20/12/19	0 days 0 days	251SF 253SF	250SF	100%	14/12 20/12	
			Fri 24/4/20	Tue 15/9/20	Fri 24/4/20	Tue 15/9/20	0 days	174	261FS-8 days	100%	24/4 15/9	
			Sat 28/12/19	Thu 9/1/20	Sat 28/12/19	Thu 9/1/20	0 days	126,141,142,153,154,155,157		100%	28/12 9/1	
			Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	0 days	253	257	100%	♦ 19/12	
	Sheetpile Installation- stage 1	24 days	Wed 15/1/20	Fri 7/2/20	Wed 15/1/20	Fri 7/2/20	0 days			100%	15/1 🔳 7/2	
		6 days	Mon 3/2/20	Sat 8/2/20	Mon 3/2/20	Sat 8/2/20	0 days		257	100%	3/2 8/2	
	Pre-bored Sockedted H-Pile Installation (127nos, 3rig, 3days/rig/pile) (NCE	69 days	Sat 8/2/20	Fri 5/6/20	Sat 8/2/20	Fri 5/6/20	0 days	127,254,259SS+20 days,256	258,411	100% 6	8/2 5/6	
_	no. 18A,25) Pile Loading Test	26 days	Fri 7/8/20	Sat 5/9/20	Fri 7/8/20	Sat 5/9/20	0 days	257,340SS+10 days	261	100%	7/8 🗾 5/9	
	Sheetpile Installation- stage 2 (NCE no. 10, 24, 27, 32, 33, 40, 41, 49, 55, 69)			Mon 7/12/20	Mon 4/5/20	Mon 7/12/20	0 days	253	257SS+20 days,312FS+8 days,261	100%	4/5	
	Construction of Digestors	421 days	Tue 3/11/20	Mon 4/4/22	Tue 3/11/20	NA	0 days			16%	3/11	
	ELS Works (incl. Strut (4-layers) Installation & Excavation (17,600 cu.m)) (NCE no.92,131,165)			Thu 11/3/21	Tue 3/11/20	Thu 11/3/21	0 days	144,130,258,129,252FS-8 days,259	262	100% 2,3	3/11 • 11	1/3
	Construction of Digesters Tank no.1,2,3,4 & external waterproofing works (NCE no. 110)			Wed 24/11/21	NA	NA	0 days	261,203,132	263,266SS+180 days	0% 30	12/3 💻	_
-			Thu 25/11/21	Fri 17/12/21	NA	NA	0 days	262	264	0%	-	2
KD3A		28 days 58 days	Sat 18/12/21 Mon 24/1/22	Sat 22/1/22 Mon 4/4/22	NA	NA NA	0 days 0 days	263 264	265 267	0% 0%		
NUJA		58 days 78 days	Wed 8/9/21	Wed 24/11/21	NA	NA	0 days 0 days	262SS+180 days	268,269	0%	-	8/9
KD3A		0 days	Mon 4/4/22	Mon 4/4/22	NA	NA	0 days	265	37FF	0%		
			Thu 25/11/21	Wed 16/3/22	NA	NA	0 days	266		0%		:
		90 days	Thu 25/11/21	Wed 16/3/22	NA	NA	0 days	266		0%		
SW3	ABWF Works & BS Works, incl. External Linning	90 days	Fri 5/3/21	Fri 25/6/21	NA	NA	382 days	207,133	271	0%		2
SW5			Sat 26/6/21	Wed 22/12/21	NA	NA	762 days	270	47FF	0%	26	6/6
*			Tue 26/11/19	Wed 9/11/22	Tue 26/11/19	NA Map 2/12/10	357 days	2	074	<b>47%</b>	26/11 2/12	
	Site Clearance & Site Set Up Predrilling Works (39no.4rig, 3days/drillhole/rig)(additional length NCE no.10)	6 days 20 days	Tue 26/11/19 Thu 28/11/19	Mon 2/12/19 Fri 20/12/19	Tue 26/11/19 Thu 28/11/19	Mon 2/12/19 Fri 20/12/19	0 days 0 days	2 126,273	274 276,275	100% 100%	28/11 22/12	
	Additional Predrilling Works (11no.)	8 days	Mon 23/12/19	Mon 30/12/19	Mon 23/12/19	Mon 30/12/19	0 days	274	276	100%	23/12   30/12	
		4 days	Fri 10/1/20	Tue 14/1/20	Fri 10/1/20	Tue 14/1/20	0 days	274,275	281FS-3 days,277	100%	10/1   14/1	
	<b>3</b> ( ) , , , , , , , , , , , , , , , , , ,	52 days	Wed 15/1/20	Fri 6/3/20	Wed 15/1/20	Fri 6/3/20	0 days	276	279,278	100%	15/1 6/3	
	• • • • •	5 days	Sat 7/3/20	Thu 12/3/20	Sat 7/3/20	Thu 12/3/20	0 days	277	279,409SS-14 days	100%	7/3   12/3	
	Pre-bored Socketed H-Pile Installation (202 Nos, 4 Rig, 3days/rig/pile) (NCE no. 18A, 25, 27 & 32) Pile Loading Test		Fri 13/3/20 Tue 30/6/20	Fri 5/6/20 Thu 23/7/20	Fri 13/3/20 Tue 30/6/20	Fri 5/6/20 Thu 23/7/20	0 days 0 days	127,278,277 279	309,280 282	100% 24 100%	13/3 5/6 30/6 23/7	
			Tue 3/12/19	Mon 30/11/20	Tue 3/12/19	Mon 30/11/20	0 days	276FS-3 days	411,282	100% 56	3/12	
	ELS Works (incl. Strut (3-layers) Installation & Excavation (25,000 cu.m)) (NCE no. 165)	62 days	Fri 30/10/20	Wed 24/3/21	Fri 30/10/20	Wed 24/3/21	0 days	144,130,280,129,281	283,284,468,469,470,472	100% 10,2	30/10 🗨 📃 2	.4/3
		276 days	Wed 24/3/21	Tue 1/3/22	Wed 24/3/21	NA	-118.5 days	204,205,206,131,282,203	290,289	4% 10	24/3	
	Basement Consturction & external waterproofing works (NCE no. 110)	100 days	Wed 24/3/21	Wed 28/7/21	Wed 24/3/21	NA	-118.5 days	282	285	10% 30	24/3 💻	
	<b>e</b> .		Wed 28/7/21	Sat 23/10/21	NA		-118.5 days		286	0%		28/7
VDCT			Sat 23/10/21	Wed 19/1/22	NA		-118.5 days		287	0%		23
KD3B KD3B	ů,		Wed 19/1/22 Tue 1/3/22	Tue 1/3/22	NA NA	NA	-118.5 days	286 287	389,288 38FF	0%		
UD3R			Tue 1/3/22 Tue 1/3/22	Tue 1/3/22 Wed 22/6/22	NA	NA NA	0 days 0 days	287	JOFF	0%	-	
SW3			Tue 1/3/22	Tue 21/6/22	NA	NA		283,207,133	291	0%		
SW5			Tue 21/6/22	Sun 18/12/22	NA	NA	401.5 days		47FF	0%	-	
*			Tue 10/12/19	Wed 20/7/22	Tue 10/12/19	NA	450 days			14%	10/12	
	· ·		Tue 10/12/19	Mon 16/12/19	Tue 10/12/19	Mon 16/12/19	0 days	2,294SF		100%	10/12   16/12	
			Tue 10/12/19	Sat 28/12/19	Tue 10/12/19	Sat 28/12/19	0 days	126FS+28 days	295,293SF	100%		
	,	4 days	Fri 3/1/20	Tue 7/1/20	Fri 3/1/20	Tue 7/1/20	0 days	294	297	100%	3/1   7/1	
		6 days 77 days	Wed 8/1/20 Wed 15/1/20	Tue 14/1/20 Tue 21/4/20	Wed 8/1/20 Wed 15/1/20	Tue 14/1/20 Tue 21/4/20	0 days 0 days	127,295,296,494	297 298	100% 100% 6	8/1 14/1 15/1 21/4	
	Pile Loading Test	4 days 85 days	Wed 29/7/20 Mon 3/8/20	Sat 1/8/20 Thu 12/11/20	Wed 29/7/20 NA	Sat 1/8/20 NA	0 days 0 days	297 144,130,298,129	299 300	100% 0% 10	29/7   1/8 3/8 • 12/11	
KD3C			Fri 13/11/20	Mon 4/10/21	NA	NA	0 days	204,205,206,131,299,203	302,303,301,379	0% 10	13/11	
KD3C		1 day	Tue 5/10/21	Tue 5/10/21	NA	NA	93.5 days	300	39FF	0%		5/
	Drainage System (within Bldg/ Structure) Installation	60 days	Tue 5/10/21	Tue 14/12/21	NA	NA	0 days	300		0%		5/
SW3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining		Tue 5/10/21	Fri 21/1/22	NA	NA	209 days	300,207,133	304,45FF	0%		5/
SW5	, i i i i i i i i i i i i i i i i i i i		Sat 22/1/22	Wed 20/7/22	NA	NA	552 days	303	47FF	0%	15/11	
×			Fri 15/11/19	Thu 27/10/22	Fri 15/11/19	NA	368 days	2	207	<b>27%</b>		
	·	14 days 0 days	Fri 15/11/19 Mon 2/12/19	Sat 30/11/19 Mon 30/12/19	Fri 15/11/19 Mon 2/12/19	Sat 30/11/19 Mon 30/12/19	0 days 0 days	2 126FS+14 days,306	307 308	100% 100%	15/11 <b>3</b> 0/11 <b>3</b> 0/12	
			Fri 17/4/20	Tue 21/4/20	Fri 17/4/20	Tue 21/4/20	0 days 0 days		000	100%		
'									308		17/4 21/4	

## Executive Summary (Status Date: 20/03/2021)

Status Date: 20 Mar 21



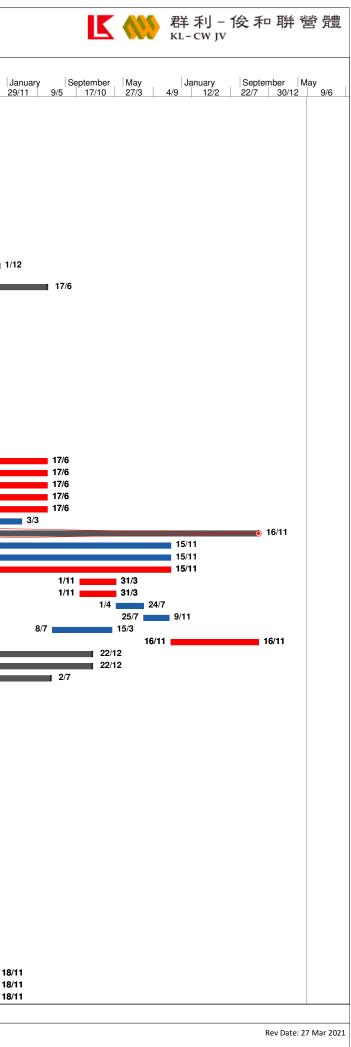
KD											
	Task Name	Duratio	n Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors		% Time Comple Risk	
										Allowan	h May January September May January September May January September M 8/4 16/9 24/2 3/8 11/1 21/6 29/11 9/5 17/10 27/3 4/9 12/2 22/7 30/12
	Setting up plant for pre-bored socked H-pile Installation	5 days	Tue 21/4/20	Sun 26/4/20	Tue 21/4/20	Sun 26/4/20	,	279	310	100%	21/4 26/4
_	Pre-bored Socketed H-Pile Installation (22 Nos, 1 Rig, 3days/rig/pile)	27 days		Fri 29/5/20	Mon 27/4/20	Fri 29/5/20		127,309	311 312 220ES (E dave 212	100% 6	27/4  29/5 27/6  10/7
-	Pile Loading Test Sheet Pile Installation	11 days 30 days		Fri 10/7/20 Sat 23/1/21	Sat 27/6/20 Thu 17/12/20	Fri 10/7/20 Sat 23/1/21		310,323FS+5 days 311,259FS+8 days	313,229FS+5 days,312 313	100%	17/12 💽 23/1
	ELS Works (incl. Strut (3-layers) Installation & Excavation (1,440 cu.m))	80 days		Thu 6/5/21	Mon 25/1/21	Thu 6/5/21	0 days	144,130,311,129,312	314	100% 10	25/1 6/5
KD3			Fri 7/5/21	Wed 5/1/22	NA	NA		204,205,206,131,342,313,2		0% 10	7/5 5/1
SW3	/3 ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Linin			Sat 30/4/22	NA	NA	,	207,133,314,132	316,45FF	0% 3	6/1 30/4
SW5	(NCE no. 165) /5 Surrounding Site formation works and road works	180 days	Sun 1/5/22	Thu 27/10/22	NA	NA	453 days	315	47FF	0%	1/5 27/10
*	Workshop No. 2		5 Tue 24/12/19	Thu 18/8/22	Tue 24/12/19	NA				20%	24/12 18/8
	Site Clearance & Site Set Up	3 days	Tue 24/12/19	Sat 28/12/19	Tue 24/12/19	Sat 28/12/19	0 days	2	319	100%	24/12   28/12
	Predrilling Works (10no.1rig, 3days/drillhole/rig) (NCE no. 10)	8 days	Thu 2/1/20	Fri 10/1/20	Thu 2/1/20	Fri 10/1/20		126,318	320	100%	2/1 10/1
	Installation of Monitoring Points	4 days	Tue 25/2/20	Fri 28/2/20	Tue 25/2/20	Fri 28/2/20	-	319	322,321	100%	25/2   28/2
	Setting up plant for pre-bored socked H-pile Installation	0 days	Tue 10/3/20	Tue 17/3/20	Tue 10/3/20	Tue 17/3/20	0 days	320,228	322	100%	♦ 17/3 18/3 6/6
	Pre-bored Socketed H-Pile Installation (36 Nos, 2 Rig, 3days/rig/pile) Pile Loading Test	64 days 16 days		Sat 6/6/20 Fri 26/6/20	Wed 18/3/20 Sun 7/6/20	Sat 6/6/20 Fri 26/6/20	0 days 0 days	127,320,321 322,495FS+5 days	323,339 324,311FS+5 days	100% 6 100%	7/6 26/6
	Excavation for Pile Cap (1,800 cu.m) (NCE no. 85,165)	,	Wed 30/12/20	Mon 12/4/21	Wed 30/12/20	NA	-	144,130,323,129	326,468,469,470,472,47		30/12 30/12 30/12
	R.C. Structure		5 Tue 13/4/21	Sat 30/10/21	NA	NA	,	,	020,100,100,110,112,11	0% 10	13/4 30/10
	Ground Floor Construction @ +6.30mpD	64 days		Tue 29/6/21	NA	NA		324,203	327	0%	13/4 29/6
	First Floor Construction @ +13.50mpD	62 days	Wed 30/6/21	Fri 10/9/21	NA	NA	0 days	326	328	0%	30/6 🗾 10/9
KD3		40 days		Sat 30/10/21	NA	NA	,	327	330,331,329	0%	11/9 🗾 30/10
KD3		0 days	Sat 30/10/21	Sat 30/10/21	NA	NA	-	328	40FF	0%	♦ 30/10
SW3	Drainage System (within Bldg/ Structure) Installation	60 days		Wed 12/1/22 Sat 19/2/22	NA	NA NA		328	332.45FF	0% 0%	1/11 <b>1</b> /11 <b>1</b> /1 1/11 <b>1</b> /2
SWS			Mon 1/11/21 Sun 20/2/22	Thu 18/8/22	NA	NA	,	207,133,328 331	47FF	0%	20/2 18/8
*	Thermal Hydrolysis Pretreatment		5 Thu 19/12/19	Wed 15/9/21	Thu 19/12/19	NA				39%	19/12
	Site Clearance & Site Set Up	-	Thu 19/12/19	Sat 11/1/20	Thu 19/12/19	Sat 11/1/20	-	2	335,336	100%	19/12 11/1
	Predrilling Works (3no.1rig, 3days/drillhole/rig) (NCE no. 10)	1 day	Fri 10/1/20	Mon 13/1/20	Fri 10/1/20	Mon 13/1/20	0 days	126FS+24 days,334	337	100%	10/1   13/1
	Additional Predrilling Works (4no.) (NCE no. 12)	1 day	Fri 10/1/20	Mon 13/1/20	Fri 10/1/20	Mon 13/1/20	0 days	334	337	100%	10/1   13/1
	Installation of Monitoring Points	6 days	Fri 1/5/20	Fri 8/5/20	Fri 1/5/20	Fri 8/5/20		335,336	339	100%	1/5    8/5
	Setting up plant for pre-bored socked H-pile Installation	5 days	Tue 12/5/20	Sat 16/5/20	Tue 12/5/20	Sat 16/5/20	0 days	407 007 000 000	339	100%	
	Pre-bored Socketed H-Pile Installation (15 Nos, 1 Rig, 3days/rig/pile) Pile Loading Test	0 days 25 days	Mon 18/5/20 Mon 27/7/20	Sat 20/6/20 Fri 11/9/20	Mon 18/5/20 Mon 27/7/20	Sat 20/6/20 Fri 11/9/20	0 days 0 days	127,337,338,322 339,229FS+5 days	340 341,258SS+10 days	100% 6 100%	18/5 <b>2</b> 0/6 27/7 <b>1</b> 1/9
	Excavation for Pile Cap (160 cu.m)	20 days		Thu 28/1/21	Wed 6/1/21	Thu 28/1/21	0 days	144,130,340,324	342	100%	6/1 28/1
KD3			Fri 29/1/21	Fri 19/3/21	Fri 29/1/21	Fri 19/3/21		341	314,343,41FF	100%	29/1 🗾 19/3
SW5			Sat 20/3/21	Wed 15/9/21	NA	NA	860 days		47FF	0%	20/3 15/9
*	Ferric Chloride Dosing Facilities	374 days	Tue 25/5/21	Thu 25/8/22	NA	NA	0 days			0%	25/5 25/8
	Excavation for Raft Footing (105 cu.m)		Tue 25/5/21	Mon 5/7/21	NA	NA	,-	2	346	0%	25/5 🗾 5/7
	Plate Load Test	18 days		Mon 26/7/21	NA	NA		345	347	0%	6/7 26/7
KD3	R.C. Structure 3E Steel Roof Structure (On-site Fabrication)	66 days	Tue 27/7/21 Fri 15/10/21	Wed 13/10/21 Fri 31/12/21	NA	NA NA		346,131,203 347	348 349,41FF	0% 5 0%	27/7 <b>13</b> /10 15/10 <b>15</b> /12
SW3			Mon 3/1/22	Sat 26/2/22	NA		181 days		350,45FF	0%	3/1 26/2
SW5			Sun 27/2/22	Thu 25/8/22	NA		516 days		47FF	0%	27/2 25/8
ł	Fire Hydrant and Booster Pump Room		Mon 19/7/21	Thu 25/8/22	NA		50 days			0%	19/7 25/8
	Excavation for Raft Footing (160 cu.m)	10 days	Mon 19/7/21	Thu 29/7/21	NA	NA	50 days	2,358	353,399	0%	19/7 29/7
	Plate Load Test		Fri 30/7/21	Thu 19/8/21	NA			352	354	0%	30/7 19/8
KD3	1 0	60 days		Fri 31/12/21	NA	NA		353,131,360,203,132	355,41FF	0% 5	21/10 31/12
SW3		,	Mon 3/1/22	Sat 26/2/22	NA			354,207,133	356,45FF	0%	3/1 26/2
SW5	/5 Surrounding Site formation works and road works Transformer and Switchroom	,	Sun 27/2/22 Thu 6/5/21	Thu 25/8/22 Thu 9/6/22	NA NA		516 days 40 days	000	47FF	0%	27/2 25/8
	Excavation for Raft Footing (310 cu.m)		Thu 6/5/21	Sat 29/5/21	NA	NA	•	2,384	359,352	0%	6/5 29/5
	Plate Load Test		Mon 31/5/21	Mon 21/6/21	NA			358	360	0%	31/5 21/6
<d3< td=""><td></td><td>60 days</td><td></td><td>Wed 20/10/21</td><td>NA</td><td>NA</td><td>,</td><td>359,131,386,203</td><td>361,354,41FF</td><td>0% 5</td><td>9/8 20/10</td></d3<>		60 days		Wed 20/10/21	NA	NA	,	359,131,386,203	361,354,41FF	0% 5	9/8 20/10
SW3			Thu 21/10/21	Sat 11/12/21	NA			360,207,133	362,45FF	0%	21/10 📩 11/12
SW5	÷	,	Sun 12/12/21	Thu 9/6/22	NA		593 days	361	47FF	0%	12/12 9/6
	Water Meter Cabinet	-	Tue 3/8/21	Wed 27/4/22	NA		35 days	0	0.05	0%	3/8 27/4
	Excavation for Raft Footing (6 cu.m)		Tue 3/8/21	Fri 13/8/21	NA			2	365 366	0% 0%	3/8 13/8 14/8 3/9
	Plate Load Test R.C. Structure	18 days 30 days		Fri 3/9/21 Mon 11/10/21	NA	NA	•	364 365,131,203	367,370	0%	4/9 11/10
SW4			Tue 12/10/21	Fri 29/10/21	NA		101 days		368,46FF	0%3	12/10 29/10
SW5			Sat 30/10/21	Wed 27/4/22	NA		636 days		47FF	0%	30/10 27/4
'	Guard House		Tue 12/10/21	Sun 17/7/22	NA	NA	35 days			0%	12/10 17/7
	Excavation to Formation		Tue 12/10/21	Fri 5/11/21	NA		•	2,366	371	0%	12/10 🔳 5/11
	R.C. Structure		Sat 6/11/21	Fri 10/12/21	NA			131,370,203	372	0% 3	6/11 10/12
SW4 SW5			Sat 11/12/21	Tue 18/1/22 Sun 17/7/22	NA		35 days 555 days	371,207,133	373,46FF 47FF	0% 0%	11/12 <b>1</b> 8/1 19/1 <b>1</b> 7/7
5445	Coolers Pumping Station		Wed 19/1/22 ay Mon 16/9/19	Mon 12/4/21	NA NA		555 days 526 days	012	9/1 F	0%	16/9
	Excavation for Raft Footing (185 cu.m)		Mon 16/9/19	Sat 2/11/19	NA		526 days	2	376,394	0%	16/9 <b>— 2/11</b>
SW4			Mon 3/8/20	Wed 14/10/20	NA		305.39 days		396,377,46FF	0% 5	3/8 • 14/10
SW5			Wed 14/10/20		NA		1016.39 days		47FF	0%	14/10 • 12/4
'	Waste Gas Buner	195 days	5 Tue 5/10/21	Sat 4/6/22	NA	NA	0 days			0%	5/10 4/6
	Excavation for Raft Rooting (75cu.m)		Tue 5/10/21	Fri 22/10/21	NA		,	2,300	380,404	0%	5/10 22/10
	Plate Load Test		Sat 23/10/21	Fri 12/11/21	NA	NA	,	379	381	0%	23/10 12/11
KD3 SW5			Sat 13/11/21 Tue 7/12/21	Mon 6/12/21 Sat 4/6/22	NA		0 days 598 days	380,131 381	406,382,41FF 47FF	0% 0%	13/11 <b>6</b> /12 7/12 4/6
2440		100 uays		Jai 4/0/22	NA	INA	Job udys	001	4/11	U /0	1/16 7/0

	k Wu Hui Effluent Polishing Plant - Main Works Stage 1 Idge Treatment Facilities and 132kV Primary Substation						<u>Exec</u>	utive Summary (Stat	us Date: 20/03:	<u>/2021)</u>	
(D Tas	k Name	Duration	Start	Finish	Actual Start Ac	ctual Finish	Total Slac	Predecessors	Successors	% Time Comple Risk Allowan	n May January September May January September May January September N
F	Plant Services Water System	243 days	Mon 12/4/21	Thu 3/2/22	NA	NA	0 days			0%	8/4 16/9 24/2 3/8 11/1 21/6 29/11 9/5 17/10 27/3 4/9 12/2 22/7 30/12
			Mon 12/4/21	Wed 5/5/21	NA	NA	-	2	385,358	0%	12/4 5/5
	<b>3</b> ( )		Thu 6/5/21	Thu 27/5/21	NA	NA		384	386	0%	6/5 27/5
03E	Basement Construction @+1.20mPD	60 days	Fri 28/5/21	Sat 7/8/21	NA	NA	0 days	385,131	360,387,41FF	0%	28/5 🚃 7/8
V5	Surrounding Site formation works and road works	180 days	Sun 8/8/21	Thu 3/2/22	NA	NA	719 days	386	47FF	0%	8/8 3/2
0	•		s Tue 1/3/22	Sun 27/11/22	NA		-118.5 days			0%	1/3 27/11
			Tue 1/3/22	Thu 24/3/22	NA		-118.5 days		390	0%	1/3 <b>2</b> /3
3E		,	Thu 24/3/22	Tue 19/4/22 Tue 31/5/22	NA		-118.5 days		391 392,41FF	0%	24/3 <b>1</b> 9/4 19/4 <b>1</b> 31/5
V5			Tue 19/4/22 Tue 31/5/22	Sun 27/11/22	NA		-118.5 days 422.5 days		47FF	0%	31/5 27/11
			Mon 30/8/21	Thu 16/6/22	NA		9 days	001		0%	30/8 16/6
	•		Mon 30/8/21	Tue 21/9/21	NA	NA		2,375	395	0%	30/8 21/9
	• • • •		Thu 23/9/21	Fri 15/10/21	NA	NA		394	396	0%	23/9 🔳 15/10
03E	R.C. Plinth	55 days	Sat 16/10/21	Sat 18/12/21	NA	NA	9 days	395,131,376	397,41FF	0%	16/10 18/12
N5			Sun 19/12/21	Thu 16/6/22	NA	NA	,	396	47FF	0%	19/12 16/6
ŀ	•		Mon 27/9/21	Thu 16/6/22	NA		9 days			0%	27/9
			Mon 27/9/21	Fri 8/10/21	NA	N/		2,352	400	0%	27/9 8/10
135			Sat 9/10/21	Tue 2/11/21	NA	N/	,	399	401 402 41EE	0%	9/10 <b>2</b> /11 3/11 <b>1</b> 8/12
03E V5			Wed 3/11/21 Sun 19/12/21	Sat 18/12/21 Thu 16/6/22	NA	N/ N/		400 401	402,41FF 47FF	0%	19/12 16/6
			Sun 19/12/21 Sat 23/10/21	Wed 29/6/22	NA	N/ N/	,	101	471 F	0%	23/10 29/6
	•		Sat 23/10/21	Mon 15/11/21	NA	N/		2,379	405	0%	23/10 15/11
			Tue 16/11/21	Mon 6/12/21	NA	N/		404	406	0%	16/11 <b>6</b> /12
3E			Tue 7/12/21	Fri 31/12/21	NA	NA	0 days	405,131,381	407,41FF	0%	7/12 🗧 31/12
V5			Sat 1/1/22	Wed 29/6/22	NA	NA	,	406	47FF	0%	1/1 29/6
ι	· ·		Thu 20/2/20	Sat 16/7/22	Thu 20/2/20	NA	453 days			13%	20/2 16/7
			Thu 20/2/20	Fri 21/8/20	Thu 20/2/20	NA		278SS-14 days	411	85%	20/2 21/8
			Mon 4/1/21	Sat 16/7/22	NA	NA		45 004 057 400	440	0%	
	Sheet Pile Installation + ELS Works (incl. Strut (2-layers) Installation & Excavation	50 days	Mon 4/1/21	Fri 5/3/21	NA	NA	-9 days	15,281,257,409	412	0%	4/1 5/3
		80 days	Sat 6/3/21	Tue 15/6/21	NA	NA	-9 days	411,131,203	413	0% 10	6/3 15/6
V4			Wed 16/6/21	Wed 21/7/21	NA	NA	-9 days	412	417,414,46FF	0%	16/6 💻 21/7
	Surrounding Site formation works and road works	180 days	Thu 22/7/21	Mon 17/1/22	NA	NA	556 days	413	415	0%	22/7 17/1
V5	ABWF & BS Works	180 days	Tue 18/1/22	Sat 16/7/22	NA	NA	556 days	414	47FF	0%	18/1 16/7
			Thu 22/7/21	Mon 13/6/22	NA	NA				0%	22/7 13/6
			Thu 22/7/21	Fri 23/7/21	NA	N/		413	418	0%	22/7   23/7
	Sheet Pile Installation + ELS Works (incl. Strut (2-layers) Installation & Excavation (300 cu.m))	30 days	Sat 24/7/21	Fri 27/8/21	NA	NA	-9 days	417	419	0%	24/7 💼 27/8
	· · · · · ·	45 davs	Sat 28/8/21	Fri 22/10/21	NA	NA	-9 days	418	420	0%	28/8 👥 22/10
			Sat 23/10/21	Mon 15/11/21	NA	NA		419	421	0%	23/10 15/11
	TTA Implementation at Chuk Wan Street northwest bound	2 days	Tue 16/11/21	Wed 17/11/21	NA	NA	-	420	422	0%	16/11 17/11
	Sheet Pile Installation + ELS Works (incl. Strut (2-layers) Installation &	20 days	Thu 18/11/21	Fri 10/12/21	NA	NA	-9 days	421	423	0%	18/11 🗧 10/12
	Excavation	45 . 1	0.144/40/04	T . 0/0/00			0.1	100	404	00/	11/12 - 8/2
V4			Sat 11/12/21 Wed 9/2/22	Tue 8/2/22 Tue 15/3/22	NA	N/ N/		422 423	424 425.46FF	0%	11/12
V4 V5			Wed 9/2/22 Wed 16/3/22	Mon 13/6/22	NA		-9 days 589 days		425,40FF 47FF	0%	16/3 13/6
			s Fri 22/11/19	Sat 16/11/24	Fri 22/11/19		0 days	727	7/11	6%	22/11 16/11
			Fri 22/11/19	Wed 1/12/21	Fri 22/11/19		634 days			37%	22/11 1/12
	•		Fri 22/11/19	Fri 20/8/21	Fri 22/11/19		71.5 days	223,186		47%	22/11 20/8
	Stage 1 - Drainage Diversion of Drainage btw Reconstructed Storm Water Manhole SMH1003177A and Reconstructed Storm Water Manhole MHD33 - A	7 days	Fri 22/11/19	Fri 29/11/19	Fri 22/11/19	Fri 29/11/19	0 days	124,145,150,146,134,167,18	36 430	100%	22/11 <del>• 29/11</del>
	Water Manhole SMH1003177A and Reconstructed Storm Water Manhole MHD33 - A and Additional concrete surround at MH18, MH16		Mon 6/1/20	Mon 27/4/20	Mon 6/1/20	Mon 27/4/20	0 days	429	431	100%	6/1 27/4
D1A	and additional manhole (Type 1) (NCE no. 8, 17) Stage 1 - Backfilling Works for Drainage Diversion	9 days	Tue 28/4/20	Wed 6/5/20	Tue 28/4/20	Wed 6/5/20	0 days	430	228	100%	28/4 6/5
01A	Stage 2 - Drainage Diversion of Drainage b/w MHD26 and	,	Thu 25/3/21	Wed 9/6/21	NA		71.5 days		433	0%	25/3 9/6
V1		60 days	Thu 10/6/21	Fri 20/8/21	NA	NA	71.5 days	432	43FF	0%	10/6 20/8
V4	SMHH1003177A, to Abandon of Exisiting Drainage Culvert (1 Cell, 1000mm x 1150mm) outside Portion C-1A & C-1B Trenchless Work for Pipe Installation	438 days	Sat 13/6/20	Wed 1/12/21	Sat 13/6/20	NA	634 days		46FF	33%	13/6 1/12
	•		Sat 13/6/20	Wed 17/6/20	Sat 13/6/20	Wed 17/6/20			437	100%	13/6   17/6
	•		Thu 18/6/20	Sat 10/10/20	Thu 18/6/20	NA		15,137		31%	18/6 10/10
			Thu 18/6/20	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20		2,435	438	100%	♦ 18/6
			Fri 26/6/20	Sat 10/10/20	Fri 26/6/20	NA		437	441	31%	26/6 26/10/10
			Mon 12/10/20		Mon 12/10/20		253 days			65%	
	Twin DN900 DI pipe (CHAT & CHAU)		Mon 12/10/20		Mon 12/10/20	N/		100	440	89%	
		24 days	Mon 12/10/20	Mon 9/11/20	Mon 12/10/20	Mon 9/11/20	0 days	438	442	100%	12/10 🔳 9/11
	Equipment (NCE no.55,69) Pipe Jacking Operation for CHAT DN900 DI pipe (30m, 3m/day)	26 days	Mon 9/11/20	Wed 9/12/20	Mon 9/11/20	Wed 9/12/20	0 days	441	445,444,443	100% 6	9/11 🔲 9/12
	(NCE no.92)				mon 0/11/20	.100 0/12/20	0 0030			100780	
		7 days	Wed 9/12/20	Wed 16/12/20	Wed 9/12/20	Wed 16/12/20	0 days	442	444	100%	9/12   16/12
	Equipment Pipe Jacking Operation for CHAU DN900 DI pipe (30m, 3m/day)	16 days	Wed 16/12/20	Fri 1/1/21	Wed 16/12/20	Fri 1/1/21	0 days	442,443	445	100%	16/12 🔞 1/1
	<i>u</i>									· · ·	

KE	DT	ask Name	Duration	Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors		% Time Comple Risk		
											Allowan	n May January Septen 8/4 16/9 24/2 3/8	nber May 11/1 21/6
145		Installation of grouting pipe and rail	7 days	Sat 2/1/21	Sat 9/1/21	Sat 2/1/21	Sat 9/1/21	0 days	442,444	446	100%	2/1	9/1
46		Pipe Laying Works	25 days	Mon 11/1/21	Mon 8/2/21	Mon 11/1/21	Mon 8/2/21	0 days	445	447	100%		8/2
17		Formwork Erection and grouting works	7 days	Tue 9/2/21	Fri 19/2/21	Tue 9/2/21	Fri 19/2/21	0 days	446		100%	9/	2 🛯 19/2
18		Backfilling works	14 days	Tue 13/4/21	Wed 28/4/21	NA			455SS		0%		13/4 28/4
9		Pipe Jacking Operation for DN2200 MS pipe (CHAV)	80 days	Mon 18/1/21	Wed 28/4/21	Mon 18/1/21	NA				27%		28/4
0		Setting Up of Entrance Ring & Gantry, and Trenchless Equipment	7 days	Mon 18/1/21	Mon 25/1/21	Mon 18/1/21	Mon 25/1/21	0 days		451	100%	18/1	25/1
51		Pipe Jacking Operation for twin DN2200 DI pipe	30 days	Tue 26/1/21	Thu 4/3/21	Tue 26/1/21	NA	0 days	450	452	10% 6	26/1	<b>4</b> /3
2		Installation of grouting pipe and rail	7 days	Fri 5/3/21	Fri 12/3/21	Fri 5/3/21	Fri 12/3/21	0 days	451	453	100%		5/3 🛯 12/3
3		Pipe Laying Works	18 days	Sat 13/3/21	Wed 7/4/21	Sat 13/3/21	NA	253 days	452	454	25%	1	3/3 🔳 7/4
4		Formwork Erection and grouting works	4 days	Thu 8/4/21	Mon 12/4/21	NA	NA	253 days	453	456,455	0%	-	8/4   12/4
5		Backfilling works	14 days	Tue 13/4/21	Wed 28/4/21	NA	NA	253 days	454	456,448SS	0%		13/4 🔳 28/4
6		Reinstatement of Temporary Launching Pit	30 days	Thu 29/4/21	Fri 4/6/21	NA		635 days	454,455	457	0%		29/4 📩 4/6
7 SW	N5	Surrounding Site formation works and road works	180 days	Sat 5/6/21	Wed 1/12/21	NA	NA	783 days	456	47FF	0%		5/6
8		Process Pipeworks, All Sewerage, Utilities & Roadworks in Portion C of	f 570 days	Wed 15/7/20	Fri 17/6/22	Wed 15/7/20	NA	-83 days			7%	15/7	•
9		the Site	244 daya	Wed 15/7/20	Wed 9/0/21	Wed 45/7/20	NA	0 dava			35%	15/7	8/9
60 KD	D1A	Process Pipeworks Connection pipe at UV System no.1 & Effluent Pumping Stataion		Wed 15/7/20 Wed 15/7/20	Wed 8/9/21 Wed 8/9/21	Wed 15/7/20 Wed 15/7/20	NA NA			35FF	35%	15/7	8/9
		no.1	-					-					
51		Effluent Pipe(approx. 70m, dia 300-1600)		sWed 15/7/20		Wed 15/7/20	NA		000	101.105==	35%	15/7	8/9
62		Twin DN900 +DN2200 (CHAT, CHAU, CHAV) (+0.2mPD) (NCE. 60.62.66)	220 days	Wed 15/7/20	Mon 12/4/21	Wed 15/7/20	NA	0 days	228	464,463FF	65%	15/7	12/4
63		DN150,350 (CHA, CHL, CHLA) Pipe Laying (+4.8mPD)	40 days	Sat 20/2/21	Mon 12/4/21	Sat 20/2/21	NA	-39 days	462FF		35%	20	/2 💼 12/4
64		CHAM, CHAN Pipe Laying (+2.0mPD)	25 days	Tue 13/4/21	Wed 12/5/21	NA	NA	69 days	462	465	0%	-	13/4 🔳 12/5
65		Chain, Chain Pipe Laying (+2.0mPD) Concrete Pipe between MHD26 and SMH1003177A (+3.6mPD)		Tue 13/4/21 Thu 13/5/21	Fri 18/6/21	NA	NA	,	462		0%	-	13/5 18/6
													_
66		DN800(CHAY), DN1600 (CHAX), DN350 (CHBA) Pipe Laying (NCE no. 84)	86 days	Thu 25/3/21	Mon 12/7/21	NA	NA	0 days	239	467	0%		25/3 12/7
67		DN1400(CHAW)	50 days	Tue 13/7/21	Wed 8/9/21	NA	NA	0 days	466		0%	-	13/7 🗾 8/9
68 SW	N4	Remaining Effluent Pipes & testing works	350 days	Tue 13/4/21	Fri 17/6/22	NA	NA	-83 days	136,282,324,196,199	46FF	0%	-	13/4
69 SW	N4	Stormdrain Pipeworks & testing works	350 days	Tue 13/4/21	Fri 17/6/22	NA	NA	-84 days	136,282,324,187	46FF	0%		13/4
70 SW		Sewerage Pipeworks, manhole, protective lining & testing works	350 days	Tue 13/4/21	Fri 17/6/22	NA	NA	-84 days	136,282,324,193	46FF	0%		13/4
71 SW		Watermain Pipeworks & testing works	350 days	Tue 13/4/21	Fri 17/6/22	NA			136,282,324,190,193	46FF	0%		13/4
72 SW		Cable & Other Underground Utility Pipeworks		Tue 13/4/21	Fri 17/6/22	NA			136,282,324	46FF	0%		13/4
73 SW	N4	Pipe Bridge No.1		Mon 2/8/21	Thu 3/3/22	NA	NA		2	46FF	0%	8/8 <b></b>	2/8
74 * 75 SW	NE	Remaining Works & Landscape Works		s Sat 8/8/20	Sat 16/11/24 Wed 15/11/23	NA NA	NA NA		2EC - 26E dave	47FF	<b>0%</b> 0%	8/8	
76 SW		Irrigation System Hard Landscape Works		Sat 8/8/20 Sat 8/8/20	Wed 15/11/23 Wed 15/11/23	NA			2FS+265 days 2FS+265 days	47FF 47FF	0%	8/8	1
77 SW		Soft Landscape Works		Sat 8/8/20	Wed 15/11/23 Wed 15/11/23	NA			2FS+265 days	483,47FF	0%	8/8	
78		Outfall for Effluent Pipes		Tue 1/11/22	Fri 31/3/23	NA			179	100,1111	0%		
79		Slope Formation Works near Outfall		Tue 1/11/22	Fri 31/3/23	NA			179		0%	-	
80		Removal of invasive trees along River Embankment (NCE no. 37)		Sat 1/4/23	Mon 24/7/23	NA	NA		179FS+124 days	481	0%	-	
81 SW	N5	Retaining Wall along River Embankment, street furniture & road works	90 days	Tue 25/7/23	Thu 9/11/23	NA	NA	61 days	179,480	47FF	0%		
82 SN	N5	Remaining Site formation works, road works and boundary fence wall	250 days	Fri 8/7/22	Wed 15/3/23	NA		314.5 days	46	47FF	0%		
83		Establishment Works (365 Calendar Days)	201 dave	Thu 16/11/23	Sat 16/11/24	NA	NA	0 days	477,139		0%		
84 *								,			26%	27/11	
85 *	C	Construction of Portion A of the Site	911 days	Wed 27/11/19		Wed 27/11/19	NA	180.5 days					
	C	Construction of Portion A of the Site CLP 132kV Substation	911 days 911 days	Wed 27/11/19 Wed 27/11/19	Thu 22/12/22	Wed 27/11/19 Wed 27/11/19	NA NA	180.5 days 180.5 days			26%	27/11	
86	C	Construction of Portion A of the Site CLP 132kV Substation Internal Works	911 days 911 days 766 days	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19	Thu 22/12/22 Sat 2/7/22	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19	NA NA NA	180.5 days 180.5 days 200.5 days		499	34%	27/11	
86 87	C	Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up	<b>911 days</b> <b>911 days</b> <b>766 days</b> 4 days	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19 Tue 10/12/19	Thu 22/12/22 Sat 2/7/22 Fri 13/12/19	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19 Tue 10/12/19	NA NA NA Fri 13/12/19	<b>180.5 days</b> <b>180.5 days</b> <b>200.5 days</b> 0 days	2	488	<b>34%</b> 100%	27/11 10/12   13/12	•
86 87 88	C	Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up Additional Tree Felling Works (NCE no.29)	911 days           911 days           911 days           766 days           4 days           4 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19 Tue 10/12/19 Fri 20/12/19	NA NA Fri 13/12/19 Mon 23/12/19	<b>180.5 days</b> <b>180.5 days</b> <b>200.5 days</b> 0 days 0 days	2 487	490	<b>34%</b> 100% 100%	27/11 10/12 13/12 20/12 12/12 20/12 12/12	5 5
86 87 88 89	C	Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up	<b>911 days</b> <b>911 days</b> <b>766 days</b> 4 days	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19 Tue 10/12/19 Fri 20/12/19 Mon 2/12/19	Thu 22/12/22 Sat 2/7/22 Fri 13/12/19	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19 Tue 10/12/19	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19	180.5 days           180.5 days           200.5 days           0 days           0 days           0 days           0 days           0 days	2		<b>34%</b> 100%	27/11 10/12   13/12	
86 87 88 89 90	C	Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up Additional Tree Felling Works (NCE no.29) Trial Pit Excavation & UU Detection Works	911 days           911 days           911 days           766 days           4 days           4 days           0 days	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19 Tue 10/12/19 Fri 20/12/19 Mon 2/12/19	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19 Tue 10/12/19 Fri 20/12/19 Mon 2/12/19	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19	180.5 days           180.5 days           200.5 days           0 days	2 487 2	490 491	34% 100% 100% 100%	27/11 10/12   13/12 20/12   23/12 2/12   22/12 2/12   12/12	
86 87 88 89 90 91	C	Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up Additional Tree Felling Works (NCE no.29) Trial Pit Excavation & UU Detection Works Additional Demolition of existing warehouse structure (NCE no.002)	911 days           911 days           911 days           766 days           4 days           4 days           0 days           28 days	Wed 27/11/19 Wed 27/11/19 Wed 27/11/19 Tue 10/12/19 Fri 20/12/19 Mon 2/12/19 Wed 27/11/19	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Tue 31/12/19	Wed 27/11/49 Wed 27/11/49 Wed 27/11/19 Tue 10/12/19 Fri 20/12/19 Mon 2/12/19 Wed 27/11/19	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Tue 31/12/19	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488	490 491 491	34% 100% 100% 100%	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12	
86 87 88 89 90 91 92	C	Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up Additional Tree Felling Works (NCE no.29) Trial Pit Excavation & UU Detection Works Additional Demolition of existing warehouse structure (NCE no.002) Predrilling Works (1 no., 1rig, 3days/drillhole/rig) (NCE no. 10) Installation of Monitoring Points Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE	911 days           911 days           911 days           766 days           4 days           4 days           0 days           28 days           11 days           4 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Tue 31/12/19           Thu 16/1/20	Wed 27/11/49 Wed 27/11/49 Wed 27/11/19 Tue 10/12/19 Fri 20/12/19 Mon 2/12/19 Wed 27/11/19 Sat 4/1/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Tue 31/12/19 Thu 16/1/20	180.5 days180.5 days200.5 days0 days	2 487 2 488 126,489,178,490	490 491 491 492	34% 100% 100% 100% 100%	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1	
86 87 88 89 90 91 92 93	C	Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up Additional Tree Felling Works (NCE no.29) Trial Pit Excavation & UU Detection Works Additional Demolition of existing warehouse structure (NCE no.002) Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10) Installation of Monitoring Points	911 days           911 days           911 days           766 days           4 days           4 days           0 days           28 days           11 days           4 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Mon 23/12/20	Wed 27/11/49           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Tue 31/12/19 Thu 16/1/20 Mon 20/1/20	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491	490 491 491 492 493	34% 100% 100% 100% 100% 100%	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1	
86       87       88       89       90       91       92       93       94	C	Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up Additional Tree Felling Works (NCE no.29) Trial Pit Excavation & UU Detection Works Additional Demolition of existing warehouse structure (NCE no.002) Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10) Installation of Monitoring Points Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022) Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))	911 days           911 days           766 days           4 days           0 days           28 days           11 days           4 days           5 days           61 days           61 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/1/19           Thu 31/12/19           Thu 12/12/19           Thu 16/1/20           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20	Wed 27/11/49           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 12/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493	490 491 491 492 493 494 495,297,497	34% 100% 100% 100% 100% 100% 100% 100% 6	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5	
86       87       88       89       90       91       92       93       94       95		Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up Additional Tree Felling Works (NCE no.29) Trial Pit Excavation & UU Detection Works Additional Demolition of existing warehouse structure (NCE no.002) Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10) Installation of Monitoring Points Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022) Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27)) Pile Load Test	911 days           911 days           766 days           4 days           4 days           0 days           28 days           11 days           4 days           61 days           61 days           22 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Thu 61/120           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 31/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 494	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498	34% 100% 100% 100% 100% 100% 100% 100% 6 100%	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6	
86       87       88       90       91       92       93       94       95       96		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., frig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)	911 days           911 days           916 days           4 days           4 days           0 days           28 days           11 days           4 days           61 days           61 days           22 days           18 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 3/7/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Thu 61/120           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 3/7/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 31/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 494 495,129	490 491 491 492 493 494 495,297,497	34% 100% 100% 100% 100% 100% 100% 100% 6	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   8/5 19/5   12/6 3/7   23/7	
86 87 88 90 91 92 93 94 95 95 96 97		Construction of Portion A of the Site CLP 132kV Substation Internal Works Site Clearance & Site Set Up Additional Tree Felling Works (NCE no.29) Trial Pit Excavation & UU Detection Works Additional Demolition of existing warehouse structure (NCE no.002) Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10) Installation of Monitoring Points Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022) Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27)) Pile Load Test Sheetpile Installation Stage 1 (NCE no. 10, 23, 36) CHP Cable Diversion Works (NCE no.23, 36, 32, 41)	911 days           911 days           766 days           4 days           0 days           28 days           11 days           28 days           11 days           4 days           6 days           28 days           11 days           5 days           61 days           22 days           18 days           101 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/20           Fri 29/5/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 12/12/19           Thu 16/1/20           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 2012/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 3/7/20           Fri 3/7/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 21/12/19 Thu 12/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 25/9/20	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 494 495,129 494	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498	34% 100% 100% 100% 100% 100% 100% 100% 6 100% 6 100% 6	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9	
36       37       38       39       90       91       92       93       94       95       96       97       98		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)	911 days           911 days           766 days           4 days           4 days           0 days           28 days           11 days           24 days           5 days           61 days           22 days           18 days           101 days           60 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 29/5/20           Sat 13/6/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Thu 16/1/20           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20	Wed 27/11/49           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/20           Fri 32/5/20           Sat 13/6/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 25/9/20 Mon 24/8/20	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 494 495,129 494 495	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9 13/6   24/8	
86 87 88 89 90 91 92 93 93 94 95 96 97 98 99		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)	911 days           911 days           766 days           4 days           4 days           0 days           28 days           11 days           4 days           5 days           61 days           22 days           18 days           101 days           60 days           66 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Tue 31/12/19           Tue 31/12/19           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 2012/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 3/7/20           Fri 3/7/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 16/1/20 Mon 21/12/19 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20	180.5 days180.5 days200.5 days0 days	2 487 2 488 126,489,178,490 491 492 127,493 494 495,129 494 495 496	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499 502,503	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9	
36       37       38       39       90       91       92       93       94       95       96       97       98       99       90		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)	911 days           911 days           766 days           4 days           4 days           0 days           28 days           11 days           4 days           5 days           61 days           22 days           18 days           101 days           60 days           66 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 29/5/20           Sat 13/6/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Thu 16/1/20           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20	Wed 27/11/49           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 21/2/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Tue 31/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20 NA	180.5 days180.5 days200.5 days0 days1 day	2 487 2 488 126,489,178,490 491 492 127,493 494 495,129 494 495	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9 13/6   24/8	10
86         87           88         89           90         91           92         93           94         95           96         97           98         99           00         00		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)           Sheetpile Installation Stage 2	911 days           911 days           766 days           4 days           4 days           0 days           28 days           11 days           2 days           5 days           61 days           22 days           61 days           22 days           18 days           101 days           60 days           20 days           20 days           20 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           Fri 9/4/21	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Thu 31/12/19           Thu 12/12/19           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20           Wed 28/4/21	Wed 27/11/49           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Won 21/2/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/20           Fri 24/7/20           NA	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 12/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Fri 12/6/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20 NA	180.5 days           180.5 days           200.5 days           0 days           1 day	2 487 2 488 126,489,178,490 491 492 127,493 494 495,129 494 495 496 506	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499 502,503 501	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9 13/6   24/8	10 9/4 <b>2</b> 8/4 29/4 18/5
86       87       88       89       90       91       92       93       94       95       96       97       98       99       00       01       02		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UD Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no.0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)           Sheetpile Installation Stage 2	911 days           911 days           911 days           766 days           4 days           0 days           28 days           11 days           4 days           28 days           5 days           61 days           22 days           18 days           101 days           60 days           60 days           60 days           20 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Fri 3/7/20           Fri 29/5/20           Sat 13/6/20           Fri 29/5/20           Sat 13/6/20           Fri 29/4/21	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Thu 12/12/19           Thu 12/12/19           Sat 29/2/20           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20           Wed 28/4/21           Tue 18/5/21	Wed 27/11/49           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/5/20           Fri 37/5/20           Fri 24/7/20           NA	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 12/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Fri 12/6/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20 NA	180.5 days           180.5 days           200.5 days           0 days           1 day           -50 days	2 487 2 488 126,489,178,490 491 492 127,493 494 495,129 494 495,129 494 495 506 500	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499 502,503 501	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11 31/12 4/1 16/1 16/1   20/1 25/2   29/2 2/3 18/5 19/5 12/6 3/7 23/7 29/5 25/9 13/6 24/8 24/7 10/1	10 9/4 28/4 29/4 18/5 19/8
86         87           88         89           90         91           92         93           94         95           96         97           98         99           00         00           01         02           03         04		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)           Sheetpile Installation Stage 2           Excavation Works Stage 2           R.C. Structure (880 sq.m)	911 days           911 days           911 days           766 days           4 days           0 days           28 days           11 days           4 days           28 days           5 days           61 days           22 days           18 days           101 days           60 days           60 days           60 days           20 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 3/7/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           Fri 24/7/20           Fri 24/7/20           Fri 24/21           Mon 12/10/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Thu 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 12/12/19           Thu 21/19/17           Thu 31/12/19           Thu 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20           Wed 28/4/21           Tue 18/5/21           Thu 19/8/21	Wed 27/11/49           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/20           Fri 24/7/20           NA           Mon 12/10/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 31/12/19 Thu 12/12/19 Thu 12/12/19 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Fri 12/6/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20 NA NA NA	180.5 days           180.5 days           200.5 days           0 days           1 day           -50 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 127,493 494 495,129 494 495,129 494 495 506 500 204,205,206,131,203,499	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499 502,503 501 504	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11 31/12 4/1 16/1 16/1   20/1 25/2   29/2 2/3 18/5 19/5 12/6 3/7 23/7 29/5 25/9 13/6 24/8 24/7 10/1 12/10	10 9/4 28/4 29/4 18/5 19/8
886         887           888         899           900         911           922         933           934         990           995         996           997         998           999         000           001         101           002         03           004         905		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., frig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)           Sheetpile Installation Stage 2           Excavation Works Stage 2           R.C. Structure (880 sq.m)           Installation of earthmat (Bay 1)           Installation of earthmat (Bay 2)           Basement (NCE no.79, 86)	911 days           911 days           766 days           4 days           0 days           28 days           11 days           4 days           0 days           28 days           11 days           4 days           61 days           61 days           22 days           18 days           101 days           60 days           66 days           20 days           20 days           253 days           14 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fir 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           Fri 29/5/21           Thu 29/4/21           Mon 12/10/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Thu 16/1/20           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20           Wed 28/4/21           Tue 18/5/21           Tue 19/8/21           Tue 10/11/20           Mon 31/5/21           Wed 20/1/21	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 2012/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Mon 2/3/20           Fri 3/1/20           Fri 3/1/20           Fri 3/1/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           NA           Mon 12/10/20           Mon 12/10/20           NA           Wed 11/11/20	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 21/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 12/6/20 Mon 24/8/20 Sat 10/10/20 NA NA NA Tue 10/11/20 NA	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 494 495,129 494 495,129 494 495 506 506 500 204,205,206,131,203,499 499	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499 502,503 501 502 501 504 505 505	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9 13/6   24/8 24/7   10/1 12/10   10 11/11   1	0 9/4 28/4 29/4 18/5 9/11 20/5 31/5 9 20/1
886         887           888         899           900         911           992         933           994         95           996         977           998         999           000         01           002         003           004         005		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., frig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)           Sheetpile Installation Stage 2           Excavation Works Stage 2           R.C. Structure (880 sq.m)           Installation of earthmat (Bay 1)           Installation of earthmat (Bay 2)           Basement (NCE no.79, 86)           Ground Floor	911 days           911 days           766 days           4 days           0 days           28 days           11 days           28 days           11 days           5 days           61 days           22 days           18 days           101 days           60 days           20 days           20 days           20 days           14 days           10 days           66 days           20 days           14 days           10 days           10 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fir 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/20           Fri 29/5/20           Sat 13/6/20           Fri 9/4/21           Thu 29/4/21           Mon 12/10/20           Thu 20/4/21           Mon 12/10/20           Thu 20/5/21           Wed 11/11/20	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Tue 31/12/19           Thu 16/1/20           Mon 20/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20           Wed 28/4/21           Tue 18/5/21           Tue 10/11/20           Mon 31/5/21           Wed 20/1/21           Thu 8/4/21	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Mon 2/3/20           Fri 3/7/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           NA           Mon 12/10/20           Mon 12/10/20           NA           Wed 11/11/20           NA           Wed 11/11/20	NA NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 12/12/19 Thu 12/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20 NA NA NA Tue 10/11/20 NA	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 492 127,493 495 127,493 495 495 495 495 495 495 495 495 506 500 204,205,206,131,203,499 499 501 503 505	490 491 491 492 493 493 494 495,297,497 496,323FS+5 days,498 499 502,503 501 504 505	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9 13/6   24/8 24/7   10/1 12/10   10 11/11   1	0 9/4 28/4 29/4 18/5 19/8 0/11 20/5 31/5 20/1 8/4
886         987           887         989           90         91           91         922           933         94           955         966           977         988           999         90           901         91           922         933           933         94           955         966           977         988           999         900           911         922           933         933           936         939           900         933           933         939           930         930           933         933           934         935           935         936           937         937           938         939           930         930           933         933           934         935           936         937           937         938           938         939           939         933           930         934           935		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., frig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)           Sheetpile Installation Stage 2           Excavation Works Stage 2           R.C. Structure (880 sq.m)           Installation of earthmat (Bay 1)           Installation of earthmat (Bay 2)           Basement (NCE no.79, 86)           Ground Floor	911 days           911 days           766 days           4 days           4 days           2 days           28 days           11 days           28 days           11 days           61 days           22 days           18 days           101 days           66 days           20 days           20 days           20 days           14 days           10 days           66 days           20 days           20 days           26 days           20 days           20 days           20 days           58 days           60 days           58 days           60 days           60 days           58 days           60 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fir 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 29/5/20           Sat 13/6/20           Fri 29/5/20           Sat 13/6/20           Fri 29/5/20           Sat 13/6/20           Fri 29/5/20           Sat 13/6/20           Fri 20/1/21           Thu 12/10/20           Thu 29/4/21           Mon 12/10/20           Thu 20/5/21           Wed 11/11/20           Thu 21/1/21           Fri 9/4/21	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Tue 31/12/19           Tue 31/12/19           Tue 31/12/19           Tue 31/12/19           Tue 31/12/19           Tue 31/12/19           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20           Wed 28/4/21           Tue 18/5/21           Thu 19/8/21           Tue 10/11/20           Mon 31/5/21           Wed 20/1/21           Thu 8/4/21           Mon 21/6/21	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Tue 15/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           Mon 12/10/20           Mon 12/10/20           Mon 12/10/20           Mon 12/10/20           Mon 12/10/20           Mon 12/10/20           NA           Wed 11/11/20           Thu 21/1/21	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20 NA NA NA Tue 10/11/20 NA Wed 20/1/21 Thu 8/4/21 NA	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 492 127,493 495 127,493 495 127,493 495 495 495 495 506 506 506 500 204,205,206,131,203,499 499 501 503 505 505 506	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499 502,503 501 504 505 506 507,500 508	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9 13/6   24/8 24/7   10/1 12/10   10 11/11   1	0 9/4 28/4 29/4 18/5 19/8 19/8 20/5 31/5 20/1 8/4 9/4 21/6
386         387           387         388           399         300           301         322           303         333           304         355           305         300           307         303           308         300           309         300           301         300           303         300           303         300           303         300           303         300           303         300           303         300           304         305           305         300           303         300           303         300           304         300           305         300           306         300           307         300		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)           Sheetpile Installation Stage 2           Excavation Works Stage 2           R.C. Structure (880 sq.m)           Installation of earthmat (Bay 1)           Installation of earthmat (Bay 2)           Basement (NCE no.79, 86)           Ground Floor           First Floor           Roof Floor (461sq.m)	911 days           911 days           766 days           4 days           4 days           0 days           28 days           11 days           28 days           11 days           5 days           61 days           22 days           18 days           101 days           60 days           20 days           60 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           Thu 20/5/21           Wed 11/11/20           Thu 21/1/21           Fri 9/4/21           Tue 22/6/21	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Tu 31/12/19           Tu 31/12/10           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20           Wed 28/4/21           Tu 18/5/21           Tu 19/8/21           Tu 20/11/20           Mon 31/5/21           Wed 20/1/21           Thu 8/4/21           Mon 21/6/21           Thu 9/8/21	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/1/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           NA           Mon 12/10/20           Mon 12/10/20           Mon 12/10/20           Mon 12/10/20           NA           Wed 11/11/12           Fri 9/4/21           NA	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20 NA NA NA Tue 10/11/20 NA Wed 20/1/21 Thu 8/4/21 NA NA	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 492 127,493 494 495,129 494 495,129 494 495 506 506 500 204,205,206,131,203,499 499 501 503 505 506 505 506 507	490 491 491 492 493 494 494 495,297,497 496,323FS+5 days,498 499 502,503 501 504 505 505 506 507,500	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9 13/6   24/8 24/7   10/1 12/10   10 11/11   1	0 9/4 28/4 29/4 18/5 19/8 0/11 20/5 31/5 20/1 8/4 9/4 21/6 22/6 19/8
86         87           88         89           90         91           92         93           94         95           96         97           98         99           00         01           02         03           04         05           06         07           08         09		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)           Sheetpile Installation Stage 2           Excavation Works Stage 2           R.C. Structure (880 sq.m)           Installation of earthmat (Bay 1)           Installation of earthmat (Bay 2)           Basement (NCE no.79, 86)           Ground Floor           First Floor           Roof Floor (461sq.m)           ABWF Works	911 days           911 days           766 days           4 days           0 days           28 days           11 days           4 days           0 days           28 days           11 days           4 days           61 days           61 days           22 days           18 days           101 days           60 days           20 days           60 days           60 days           50 days           50 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fir 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 3/7/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           Thu 29/4/21           Mon 12/10/20           Thu 20/5/21           Wed 11/11/21           Fri 24/4/21           Tue 22/6/21           Fri 20/8/21	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Thu 31/12/19           Thu 12/12/19           Tue 31/12/19           Tue 31/12/19           Thu 16/1/20           Sat 29/2/20           Mon 18/5/20           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20           Wed 28/4/21           Tue 18/5/21           Thu 19/8/21           Tue 10/11/20           Mon 31/5/21           Wed 20/1/21           Thu 8/4/21           Mon 21/6/21           Thu 19/8/21           Thu 19/8/21           Thu 19/8/21           Thu 19/8/21           Thu 18/11/21	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/20           Fri 37/20           Fri 37/20           Sat 13/6/20           Fri 24/7/20           NA           Mon 12/10/20           Mon 12/10/20           NA           Wed 11/11/20           Thu 21/1/21           Fri 9/4/21           NA	NA NA Fri 13/12/19 Mon 23/12/19 Thu 12/12/19 Thu 31/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20 Sat 10/10/20 NA NA NA Tue 10/11/20 NA Wed 20/1/21 Thu 8/4/21 NA NA	180.5 days           180.5 days           200.5 days           0 days           -113 days           0 days	2 487 2 487 2 488 126,489,178,490 491 492 127,493 492 127,493 494 495,129 494 495,129 494 495 506 506 500 204,205,206,131,203,499 499 501 503 505 501 503 505 506 507 507 508,207,133	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499 502,503 501 504 505 506 507,500 508	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9 13/6   24/8 24/7   10/1 12/10   10 11/11   1	0 9/4 28/4 29/4 18/5 19/8 0/11 20/5 31/5 20/1 8/4 9/4 21/6 22/6 19/8 20/8 11/8
86         87           88         89           90         91           92         93           94         95           96         97           98         99           900         93           96         97           98         99           900         93           906         97           98         99           900         901           901         902           905         906           907         98           999         900           901         901           902         903           903         904           905         906           907         908           909         900           901         901           905         906           907         908           908         909           9000         903           904         905           905         906           907         908           909         900           900         900		Construction of Portion A of the Site           CLP 132kV Substation           Internal Works           Site Clearance & Site Set Up           Additional Tree Felling Works (NCE no.29)           Trial Pit Excavation & UU Detection Works           Additional Demolition of existing warehouse structure (NCE no.002)           Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)           Installation of Monitoring Points           Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)           Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))           Pile Load Test           Sheetpile Installation Stage 1 (NCE no. 10, 23, 36)           CHP Cable Diversion Works (NCE no.23, 36, 32, 41)           Watermain diversion and relocation of water meter (NCE no. 15, 36)           Excavation Works Stage 1 (NCE no.16, 49, 55)           Sheetpile Installation Stage 2           Excavation Works Stage 2           R.C. Structure (880 sq.m)           Installation of earthmat (Bay 1)           Installation of earthmat (Bay 2)           Basement (NCE no.79, 86)           Ground Floor           First Floor           Roof Floor (461sq.m)	911 days           911 days           766 days           4 days           0 days           28 days           11 days           4 days           0 days           28 days           11 days           4 days           61 days           61 days           22 days           18 days           101 days           60 days           66 days           20 days           20 days           20 days           20 days           58 days           10 days           58 days           60 days           60 days           50 days           50 days           75 days	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           Thu 20/5/21           Wed 11/11/20           Thu 21/1/21           Fri 9/4/21           Tue 22/6/21	Thu 22/12/22           Sat 2/7/22           Fri 13/12/19           Mon 23/12/19           Thu 12/12/19           Thu 12/12/19           Tu 31/12/19           Tu 31/12/10           Fri 12/6/20           Thu 23/7/20           Fri 25/9/20           Mon 24/8/20           Sat 10/10/20           Wed 28/4/21           Tu 18/5/21           Tu 19/8/21           Tu 20/11/20           Mon 31/5/21           Wed 20/1/21           Thu 8/4/21           Mon 21/6/21           Thu 9/8/21	Wed 27/11/19           Wed 27/11/19           Wed 27/11/19           Tue 10/12/19           Fri 20/12/19           Mon 2/12/19           Wed 27/11/19           Sat 4/1/20           Thu 16/1/20           Tue 25/2/20           Mon 2/3/20           Tue 19/5/20           Fri 37/1/20           Fri 29/5/20           Sat 13/6/20           Fri 24/7/20           NA           Mon 12/10/20           Mon 12/10/20           Mon 12/10/20           Mon 12/10/20           NA           Wed 11/11/12           Fri 9/4/21           NA	NA NA NA Fri 13/12/19 Thu 12/12/19 Thu 2/12/19 Thu 2/12/19 Thu 16/1/20 Mon 20/1/20 Sat 29/2/20 Mon 18/5/20 Fri 12/6/20 Thu 23/7/20 Fri 25/9/20 Mon 24/8/20 Sat 10/10/20 Sat 10/10/20 NA NA NA Tue 10/11/20 NA NA NA NA NA NA NA NA NA NA	180.5 days           180.5 days           200.5 days           0 days	2 487 2 488 126,489,178,490 491 492 127,493 492 127,493 494 495,129 494 495,129 494 495 506 506 500 204,205,206,131,203,499 499 501 503 505 506 505 506 507	490 491 491 492 493 494 495,297,497 496,323FS+5 days,498 499 502,503 501 504 505 506 507,500 508	34% 100% 100% 100% 100% 100% 100% 100% 10	27/11 10/12   13/12 20/12   23/12 2/12   12/12 27/11   31/12 4/1   16/1 16/1   20/1 25/2   29/2 2/3   18/5 19/5   12/6 3/7   23/7 29/5   25/9 13/6   24/8 24/7   10/1 12/10   10 11/11   1	0 9/4 28/4 29/4 18/5 19/8 /11 20/5 31/5 20/1 8/4 9/4 21/6

## Executive Summary (Status Date: 20/03/2021)

Status Date: 20 Mar 21



### ID KD Task Name Duration Start Finish Actual Start Actual Finish Total Slack Predecessors Successors Time May January September May January <thJanuary</th> <thJanuary</th> <thJanuary Comple Risk Allowan 512 75 days Fri 20/8/21 Installation of telephone line/ direct link for FSD Inspection Thu 18/11/21 508 NA NA 0 days 0% 20/8 \_\_\_\_ 18/ 513 Building Services Installation Works (incl. Fire Services, Plumbing, 75 days Fri 20/8/21 Thu 18/11/21 NA NA 508 0% 0 days Drainage, etc.) & FSD Inspection 20/8 **20/8** 18/ 5/11 18/ 514 KD2A Architectual Works 75 days Fri 20/8/21 Thu 18/11/21 NA NA -113 days 508 516,517,36FF 0% 515 KD2A 508FS+63 days Prehandover to CLP 12 days Fri 5/11/21 Thu 18/11/21 NA NA 0 davs 36FF 0% 19/11 📕 516 Handover to CLP for Electrical System Installation 30 days Fri 19/11/21 Thu 23/12/21 NA NA 0 days 514 519.518 0% 517 E&M Installation, Testing & Commissioning by CLP 180 days Fri 19/11/21 Sat 2/7/22 NA NA 0 days 514 0% 19/11 518 Testing & Commissioning of the E&M Works 90 days Fri 24/12/21 Tue 19/4/22 NA 0 days 516 24/12 NA 0% 519 ABWF Works - External Finishing 90 days Fri 24/12/21 Tue 19/4/22 NA NA 230.5 days 516,207,133 520 0% 24/12 520 SW2 Inspection and Handover to CLP 532 44FF 30 days Wed 20/4/22 Thu 26/5/22 NA NA 230.5 days 519 0% 521 NA External Works 513 days Thu 1/4/21 Thu 22/12/22 NA 180.5 days 148 0% 1/4 522 Road Widening Works (NCE no. 20) 388 days Thu 1/4/21 Tue 26/7/22 NA NA 180.5 days 0% 1/4 523 7 days Thu 1/4/21 524 1/4 🛯 13/4 Trial Pit Excavation & UU Detection Works Tue 13/4/21 NA NA 181 days 151 0% 14/4 25/6 26/6 25/7 524 NA NA 181 days 523 525 Diversion of existing UU (i.e. 3no. Street light) Fri 25/6/21 60 days Wed 14/4/21 0% 525 NA Temporary Site Access 30 days Sat 26/6/21 Sun 25/7/21 NA 220.5 days 524 527 0% 26/7 26/7 5/10 526 Drainage Works 150 days Mon 26/7/21 Sat 22/1/22 NA NA 180.5 days 0% 527 Trench Excavation and ELS works 60 days Mon 26/7/21 Tue 5/10/21 NA NA 180.5 days 525 528 0% 528 Pipe Laying Works 60 days Wed 6/10/21 Wed 15/12/21 NA NA 180.5 days 527 529 6/10 0% 529 16/12 💼 Backfilling and Reinstatement Works NA NA 180.5 days 528 531,530 30 days Thu 16/12/21 Sat 22/1/22 0% 530 Cable & Other Underground Utility Pipeworks 42 days Mon 24/1/22 Wed 16/3/22 NA NA 180.5 days 529 531 0% 24/1 531 Road Works 105 days Thu 17/3/22 Tue 26/7/22 NA NA 180.5 days 529,530 532 0% 1 NA 180.5 days 520,531 532 SW2 Construction of New Boundary Wall NA 44FF 125 days Wed 27/7/22 Thu 22/12/22 0%

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Status Date: 20 Mar 21

Contract No · DC/2018/06

Contract Title: Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

- Civil Works for Sludge Treatment Facilities and 132kV Primary Substation

Milestone

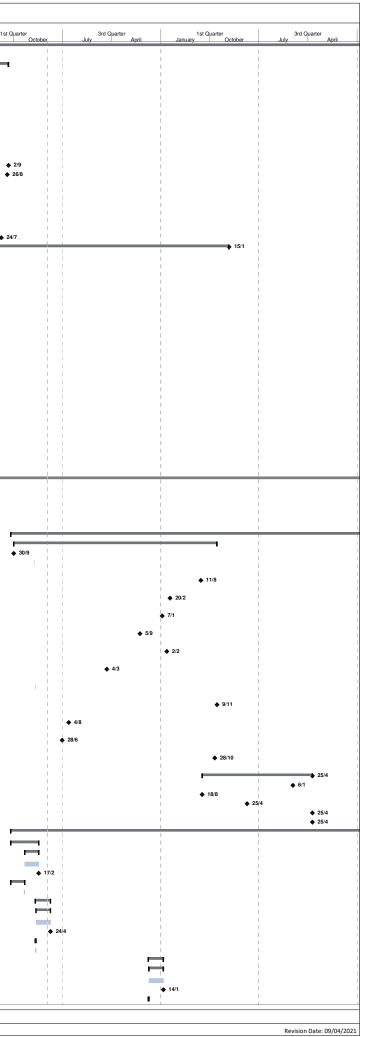
Page 9

Executive Summary (Status Date: 20/03/2021)

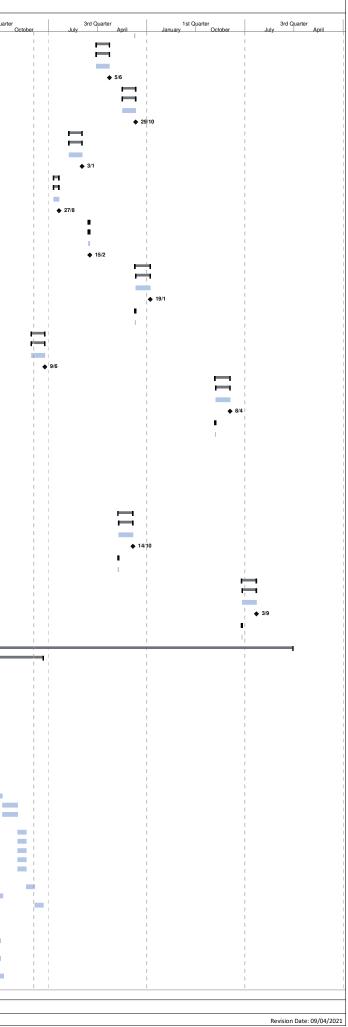


January September May	January	Septem	oer Ma	
29/11 9/5 17/10 27/3	4/9 12/2	22/7	30/12	9/6
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27/7 22/12				

Activity ID Key Dat	7 Jishing Plant - Main Works Stage 1	05 1	05/505/05/07	Dec. 7	Dec **	<b>P</b>	<u>.</u>		atual Or	Revised Works Programme (Status Date: 2		Tatal Cl		
		CE for No Inclement Weather	CE/ECE/PMI Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	ctual Start A	ctual Finish Predecessors	Successors	Total Slack F	Risk Allowance % Complete Individual Critical Path	uarter 1st Quartu April January
CD-1000 CD-1010	Contract Dates Starting Date		1585 days 0 days	Mon 18/11/19 Mon 18/11/19	Thu 27/3/25 Mon 18/11/19	2482.5 days	Mon 18/11/19 Mon 18/11/19	Tue 8/2/28 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	NA Mon 18/11/19	35FS+1461 days,36FS+901	0 days	5% 100%	◆ 18/11
CAD-1000	Access Dates (cal. day)		310 days	Mon 18/11/19	Wed 23/9/20	289 days	Mon 18/11/19	Wed 2/9/20	Mon 18/11/19	Wolf 13/17/19 Wed 2/9/20	33F3+1401 uays,30F3+50	0 days	100%	
CAD-1010 CAD-1020	Portion B-1 (Access Road AR3)	t Easilitias by	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days	Fri 10/1/20 Fri 10/1/20	Fri 10/1/20 Fri 10/1/20	Fri 10/1/20 Fri 10/1/20	Fri 10/1/20 2 Fri 10/1/20 2	211	0 days	100%	♦ 10/1 ♦ 10/1
GAD-T020	Portion B-1A (Area for the works for Sidestream Treatme Others	racinues by	0 days	W01110/11/19	WUIT 16/11/19	0 days	FII 10/1/20	FII 10/1/20	FII 10/1/20			0 days	100%	• "
CAD-1030 CAD-1040	Portion B-2 (Inlet Works No.1) Portion B-2A (Area for the pipe-jacking works by others)		0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days 0 days	Fri 10/1/20 Fri 10/1/20	Fri 10/1/20 Fri 10/1/20	Fri 10/1/20 Fri 10/1/20	Fri 10/1/20 2 Fri 10/1/20 2	306,317	0 days 0 days	100%	♦ 10/1 ♦ 10/1
CAD-1040	Portion B-2A (Area for the pipe-jacking works by others) Portion B-3 (Primary Sedimentation Tanks No. 1-4)		0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19		343	0 days	100%	♦ 18/11
CAD-1060	Portion B-4 (Bioreactor No. 2A & 2B)		0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2	358	0 days	100%	♦ 18/11
CAD-1070 CAD-1080	Portion B-5 (Membrane Facilities Building No.2) Portion B-6 (SAS Pumping Station)		0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days 0 days	Tue 17/3/20 Mon 18/11/19	Tue 17/3/20 Mon 18/11/19	Tue 17/3/20 Mon 18/11/19	Tue 17/3/20 2 Mon 18/11/19 2	394,411,416 425	0 days 0 days	100%	♦ 17/3
2 CAD-1090	Portion B-7 (Ancillary structures)		0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2	447	0 days	100%	♦ 18/11
CAD-1100	Portion B-7A (Alternation works for existing Power House Portion B-8 (Alternation for existing Membrane Facilities	uilding No.1)	0 days 0 days	Wed 2/9/20 Tue 22/9/20	Wed 2/9/20 Tue 22/9/20	0 days 0 days	Wed 2/9/20 Wed 26/8/20	Wed 2/9/20 Wed 26/8/20	Wed 2/9/20 Wed 26/8/20	Wed 2/9/20 2FS+290 days Wed 26/8/20 2FS+311 days	510FS-1 day,29FS+151 day 512FS-1 day	ys 0 days 0 days	100%	◆ 2/9 ↓ ◆ 26/8
5 CAD-1020	Portion B-8A (Alternation of air supply main for existing A No.2)		0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2	503	0 days	100%	♦ 18/11
6 CAD-1130	Portion B-9 (remainder works in Zone B)		0 davs	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2	513,528	0 davs	100%	♦ 18/11
7 CAD-1140	Portion B-9A (Area for the pipe-jacking works by others)		0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2		0 days	100%	♦ 18/11
3 CAD-1150	Portion B-9B (Area for underground pipework modificatio works by others)	and connection	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2		0 days	100%	♦ 18/11
CAD-1160	Portion B-9C (Area for the works for pipeworks)		0 days	Wed 22/7/20	Wed 22/7/20	0 days	Fri 24/7/20	Fri 24/7/20	Fri 24/7/20	Fri 24/7/20 2FS+151 days		0 days	100%	♦ 24/7
CKD-1000	Key Dates (cal. day) KD1A completion of AR3 in Portion B-1 (375 days after s	uting data)	1440 days 300 days		Sat 28/10/23 Sun 13/9/20	1519 days 375 days	Tue 19/11/19 Tue 19/11/19	Mon 15/1/24 Fri 27/11/20	Tue 19/11/19 Tue 19/11/19	NA NA 2FS+1 day,42FF	67	0 days 0 days	7% 0% IW	
2 CKD-1020	KD1B completion of utilities diversion for commencement		360 days		Thu 12/11/20	438 days	Tue 19/11/19	Fri 29/1/21	Tue 19/11/19	NA 2FS+1 day,42FF NA 2FS+1 day,43FF	73	2570.5 days	81% IW	
0//0 4000	No.1 in Portion B-2 (438.5 days after starting date)	a No f in Danian	000 days	Tue 10/11/10	Thu: 4/0/00	1000 5 days	Tu: 10/11/10	0-1-00/10/00	Tue 10/11/10		70	1040 dava		
3 CKD-1030	KD1C completion of civil and structural works of Inlet Wo B-2 (1068.5 days after starting date)	IS NO.1 IN Portion	990 days	Tue 19/11/19	Thu 4/8/22	1068.5 days	Tue 19/11/19	Sat 22/10/22	Tue 19/11/19	NA 2FS+1 day,44FF	79	1940 days	0% IW	
CKD-1040	KD1D completion of civil and structural works of Primary Tanks in Portion B-3 (1190days after starting date)	edimentation	1190 days	5 Tue 19/11/19	Mon 20/2/23	1190 days	Tue 19/11/19	Mon 20/2/23	Tue 19/11/19	NA 2FS+1 day,45FF		1903 days	32% IW	
5 CKD-1050	KD1E completion of civil and structural works of Bioreact	r in Portion B-4	1140 days	Tue 19/11/19	Sun 1/1/23	1140 days	Tue 19/11/19	Sun 1/1/23	Tue 19/11/19	NA 2FS+1 day,46FF		-6 days	0% IW	
	(1,140days after starting date)		000 1	Tuo 40/41/20							00	100 5 -		
6 CKD-1060	KD1F completion of civil and structural works of MFB from floor level in Portion B-5 (855.5 days after starting date)	D2 1007 10 1St	800 days	Tue 19/11/19	Wed 26/1/22	855.5 days	Tue 19/11/19	Wed 23/3/22	Tue 19/11/19	NA 2FS+1 day,47FF	82	-166.5 days	0% MFB, IW	
7 CKD-1070	KD1G completion of civil and structural works of MFB in days after starting date)	ortion B-5 (1002.5	950 days	Tue 19/11/19	Sat 25/6/22	1002.5 days	Tue 19/11/19	Wed 17/8/22	Tue 19/11/19	NA 2FS+1 day,48FF	86	-169.5 days	0% MFB, IW	
3 CKD-1080	KD1H completion of civil and structural works of SAS Pur	ping Station in	630 days	Tue 19/11/19	Mon 9/8/21	703.5 days	Tue 19/11/19	Fri 22/10/21	Tue 19/11/19	NA 2FS+1 day,49FF	90	-133.5 days	0% IW	
	Portion B-6 (703.5 days after starting date)		400 de	Eri 4/0/20		170					94			
CKD-1090	KD1I completion alternation works for existing Power Hou (179.5days after access date of B-7A)	IS IN FULION B-/A	150 days	Fri 4/9/20	Sun 31/1/21	179 days	Wed 2/9/20	Wed 28/7/21	Wed 2/9/20	NA 13FS+151 days,50FF	34	2445 days	0% IW	
CKD-1100	KD1J completion of auxiliary facilites in Portion B-7 (811. starting date)	days after	800 days	Tue 19/11/19	Wed 26/1/22	811.5 days	Tue 19/11/19	Mon 7/2/22	Tue 19/11/19	NA 2FS+801 days,51FF	98	2273 days	0% IW	
CKD-1110	KD2A completion of effluent pipes to UV system and con	ection to its	495 days	Tue 19/11/19	Sat 27/3/21	577.5 days	Tue 19/11/19	Wed 26/10/22	Tue 19/11/19	NA 2FS+496 days,52FF	105	1935 days	0% IW	
2 CKD-1120	downstream in Portion B-9 (574.5 days after starting date		420 days	Tue 19/11/19	Mon 11/1/21	494 davs	Tue 19/11/19	Fri 26/3/21	Tue 19/11/19	NA 2FS+421 days,53FF	108	0504 dava	0% W	
CKD-1120	KD2B completion of air supply main alternation to existing No.2 in Portion B-8A (494 days after starting date)	air blower nouse	420 days	Tue 19/11/19	Mon 11/1/21	494 days	Tue 19/11/19	PTI 20/3/21	100 19/11/19	NA 2F5+421 days,53FF	108	2524 days	0%	
8 CKD-1130	KD3A completion of all utilities and road works (1519 day date)	after starting	1440 days	Tue 19/11/19	Sat 28/10/23	1519 days	Tue 19/11/19	Mon 15/1/24	Tue 19/11/19	NA 2FS+1441 days,54FF	115	1490 days	0% IW	
CCD-1000	Completion Date (cal. Day)		1956 days	s Tue 19/11/19	Thu 27/3/25	3003.5 days	Tue 19/11/19	Tue 8/2/28	Tue 19/11/19	NA		0 days	0%	•
5 CCD-1010	Section 1 of the Works (1,543.5 after starting date)			Tue 19/11/19	Fri 17/11/23	1543.5 days	Tue 19/11/19	Tue 8/2/28	Tue 19/11/19	NA 2FS+1461 days,56FF	121	0 days	0% MFB, IW	
6 CCD-1020 7 CCD-1030	Section 2 of the Works (977.5 after starting date) Section 3 of the Works (1,590 after starting date)		900 days 1590 days		Fri 6/5/22 Tue 26/3/24	977.5 days 1667.5 days	Tue 19/11/19 Tue 19/11/19	Sat 23/7/22 Wed 12/6/24	Tue 19/11/19 NA	NA 2FS+901 days,57FF NA 2FS+1591 days,58FF	39FS+1 day,133,38FS+1 da	2032 days ay0 days	0% MFB, IW 0% IW	
8 CCD-1040	Defects Liability Period		365 days		Thu 27/3/25	365 days	Thu 13/6/24	Fri 13/6/25	NA	NA 37FS+1 day		0 days	0% IW	
CCD-1050	Landscape Establishment Works Planned Completion		365 days 1686 days		Thu 27/3/25 Thu 27/3/25	365 days 2793 days	Thu 13/6/24 Sun 13/9/20	Fri 13/6/25 Sun 7/5/28	NA Sun 13/9/20	NA 37FS+1 day		1059.5 days 0 days	0% IW	_
PCD-1000 *	Planned Completion - Key Dates (cal. day)			s Fri 14/8/20	Sat 28/10/23	1135 days	Wed 30/9/20	Thu 9/11/23	Wed 30/9/20	NA		67 days	99%	-
PKD-1010 KD PCD-1020 KD			0 days 0 days	Sat 12/9/20 Fri 14/8/20	Sat 12/9/20 Fri 14/8/20	0 days 1 day	Wed 30/9/20 Fri 22/1/21	Wed 30/9/20 Fri 22/1/21	Wed 30/9/20 Fri 22/1/21	Wed 30/9/20 220FF Fri 22/1/21 222FF,305FF,295FF,302FF,260FF,258	21FF FF 22FF	0 days 0 days	100%	♦ 30
100-1020 100	No.1 in Portion B-2 (360days after starting date)		0 days	111 14/0/20	11114/0/20	Tudy	11122/1/21	111221121	11122/1/21			0 days	10076	
PCD-1030 KD	HC KD1C completion of civil and structural works of Inlet Wo B-2 (990days after starting date)	s No.1 in Portion	0 days	Thu 4/8/22	Thu 4/8/22	0 days	Fri 11/8/23	Fri 11/8/23	NA	NA 340FF,339FF,331FF,335FF	23FF	-294 days	0%	
5 PCD-1040 KD	KD1D completion of civil and structural works of Primary	edimentation	0 days	Mon 20/2/23	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA 354FF,353FF	24FF	0 days	0%	
6 PCD-1050 KD	Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreact	rin Portion B-4	0 days	Sat 31/12/22	Sat 31/12/22	0 days	Sat 7/1/23	Sat 7/1/23	NA	NA 383FF,386FF,384FF,385FF	25FF	-6 days	0%	
	(1,140days after starting date)		0 days			0 days	5at 1/1/25		NA.			-o uaya		
PCD-1060 KD	NF KD1F completion of civil and structural works of MFB from floor level in Portion B-5 (800days after starting date)	B2 floor to 1st	0 days	Tue 25/1/22	Tue 25/1/22	0 days	Mon 5/9/22	Mon 5/9/22	NA	NA 421FF	26FF	-167 days	0% MFB	
8 PCD-1070 KD	MG KD1G completion of civil and structural works of MFB in I	ortion B-5	0 days	Sat 25/6/22	Sat 25/6/22	0 days	Thu 2/2/23	Thu 2/2/23	NA	NA 422FF	27FF	-170 days	0% MFB	
PCD-1080 KD	(950days after starting date) 11H KD1H completion of civil and structural works of SAS Pul	ning Station in	0 days	Mon 9/8/21	Mon 9/8/21	0 days	Fri 4/3/22	Fri 4/3/22	NA	NA 445FF.444FF	28FF	-134 days	0%	
	Portion B-6 (630days after starting date)		0 00,0	Mon orone i	Morr Groze	o dajo	111-10-22	111-110/22				101 days		
PCD-1090 KD	<li>KD11 completion alternation works for existing Power Hot (150days after access date of B-7A)</li>	e in Portion B-7A	0 days	Sat 30/1/21	Sat 30/1/21	1 day	Fri 29/1/21	Fri 29/1/21	Fri 29/1/21	Fri 29/1/21 510FF	29FF	0 days	100%	
PCD-1100 KD		lys after starting	0 days	Wed 26/1/22	Wed 26/1/22	0 days	Thu 9/11/23	Thu 9/11/23	NA	NA 484FF,483FF,462FF,461FF,495FF,494	FF30FF	-641 days	0%	
PCD-1110 KD	date) 2A KD2A completion of effluent pipes to UV system and con	ection to its	0 days	Sat 27/3/21	Sat 27/3/21	0 days	Wed 4/8/21	Wed 4/8/21	NA	NA 514FF,516FF	31FF	-47.8 days	0%	
	downstream in Portion B-9 (495days after starting date)										-			
8 PCD-1120 KD	2B KD2B completion of air supply main alternation to existing No.2 in Portion B-8A (420days after starting date)	air blower house	0 days	Thu 3/9/20	Thu 3/9/20	0 days	Mon 28/6/21	Mon 28/6/21	NA	NA 503FF,507FF,508FF,509FF	32FF	-94 days	0%	
PCD-1130 KD	ISA KD3A completion of all utilities and road works (1440days	after starting	0 days	Sat 28/10/23	Sat 28/10/23	0 days	Sat 28/10/23	Sat 28/10/23	NA	NA 527FF	33FF	79 days	0%	
5 PCD-1000 *	date) Planned Completion Date (cal. Day)		1056 down	5 Fri 6/5/22	Thu 27/3/25	616 down	Fri 19/9/99	Fri 25/4/05	N.C.	NA		-392 dave	ne/	
5 PCD-1000 * 5 PCD-1010 SW	Planned Completion Date (cal. Day)           V1         Section 1 of the Works (1,460 after starting date)		0 days	Wed 23/8/23	Thu 27/3/25 Wed 23/8/23	0 days	Fri 18/8/23 Mon 6/1/25	Fri 25/4/25 Mon 6/1/25	NA NA	NA 463FF,496FF,490FF,457FF,478FF,472	FF 35FF	-392 days -333 days	0% 0% MFB	
7 PCD-1020 SW	V2 Section 2 of the Works (900 after starting date)		0 days	Fri 6/5/22	Fri 6/5/22	0 days	Fri 18/8/23	Fri 18/8/23	NA	NA 522FF,525FF,526FF,524FF,523FF,342	FF 36FF	-392 days	0% MFB	
PCD-1030 SW PCD-1040 DLI			0 days 0 days	Tue 26/3/24 Thu 27/3/25	Tue 26/3/24 Thu 27/3/25	0 days 0 days	Thu 25/4/24 Fri 25/4/25	Thu 25/4/24 Fri 25/4/25	NA	NA 512FF,529FF,530FF,531FF NA 532FF,169FF	37FF	47 days 1108 days	0%	
PCD-1050	Landscape Establishment Works		0 days	Thu 27/3/25	Thu 27/3/25	0 days	Fri 25/4/25	Fri 25/4/25	NA	NA 532FF		1108 days	0%	
ET-1000	Effects from Inclement Weather and Other Time Affecte	I Events	0 days	NA	NA	2793 days	Sun 13/9/20	Sun 7/5/28	Sun 13/9/20	NA		0 days	0% IW	-
ET1A-1000 ET1A-1100	Effects to KD1A		0 days	NA	NA	156.5 days	Sun 13/9/20 Wed 2/12/20	Wed 17/2/21 Wed 17/2/21	Sun 13/9/20 NA	NA		2636.5 days 2636.5 days	0% IW 0% IW	
ET1A-1100	Inclement Weather to KD1A (cal. Day) Delay and Disruption of Works before February 20	1	0 days 0 days	NA	NA	77.5 days 77.5 days	Wed 2/12/20 Wed 2/12/20	Wed 17/2/21 Wed 17/2/21	NA NA	NA 67	65	2636.5 days	0% IW	
5 ET1A-1120	Delay and Disruption of Works for the month of Fe		0 days	NA	NA	0 days	Wed 17/2/21	Wed 17/2/21	NA	NA 64		2636.5 days	0% IW	
ET1A-1200	Other Events to KD1A (not all) Special working arrangement due to COVID-19 in .	anuary 2020	0 days 0 days	NA NA	NA	79 days 4 days	Sun 13/9/20 Sun 13/9/20	Tue 1/12/20 Tue 1/12/20	Sun 13/9/20 Sun 13/9/20	NA NA 21	64	2636.5 days 2636.5 days	0% W	
ET1A-1210 ET1B-1000	Effects to KD1B		0 days	NA	NA	84.5 days	Sat 30/1/21	Sat 24/4/21	Sun 13/9/20 NA	NAZI		2570.5 days	0% IW	
	Inclement Weather to KD1B (cal. Day)		0 days	NA	NA	80.5 days	Wed 3/2/21	Sat 24/4/21	NA	NA		2570.5 days	0% IW	
9 ET1B-1100	Delay and Disruption of Works before February 20 Delay and Disruption of Works for the month of Fe		0 days 0 days	NA	NA	80.5 days 0 days	Wed 3/2/21 Sat 24/4/21	Sat 24/4/21 Sat 24/4/21	NA	NA 73 NA 70	71	2570.5 days 2570.5 days	0% W 0% W	
ET1B-1100 ET1B-1110	Deray and Disruption of Works for the month of Fe	500 y 2021	0 days 0 days	NA	NA	0 days 4 days	Sat 24/4/21 Sat 30/1/21	Sat 24/4/21 Tue 2/2/21	NA NA	NA 70 NA		2570.5 days	0% IW 0% IW	
9 ET1B-1100	Other Events to KD1B (not all)	0000	0 days	NA	NA	4 days	Sat 30/1/21	Tue 2/2/21	NA	NA 22	70	2570.5 days	0% IW	
ET1B-1100           ET1B-1110           ET1B-1110           ET1B-1120           ET1B-1210           B	Special working arrangement due to COVID-19 in	anuary 2020			NA	84.5 days	Sat 22/10/22	Sat 14/1/23	NA	NA		1940 days	0% IW	(
P         ET1B-1100           0         ET1B-1110           1         ET1B-1120           2         ET1B-1200           3         ET1B-1210           4         ET1C-1000	Special working arrangement due to COVID-19 in . Effects to KD1C	anuary 2020	0 days	NA NA		20.5 days	Wed 26/40/22	Sat 1////02	N/A	NA		1940 dave	0% 114	1
ET1B-1100           ET1B-1110           ET1B-1110           ET1B-1120           ET1B-1210           B	Special working arrangement due to COVID-19 in a Effects to KD1C Inclement Weather to KD1C (cal. Day)		0 days 0 days	NA NA	NA	80.5 days	Wed 26/10/22 Wed 26/10/22	Sat 14/1/23 Sat 14/1/23	NA NA	NA NA 79	77	1940 days	0% W 0% W	
B         ET1B-1100           0         ET1B-1110           0         ET1B-1120           0         ET1B-1200           0         ET1B-1210           0         ET1B-1210           0         ET1B-1210           0         ET1B-1210           0         ET1C-1000           0         ET1C-1100	Special working arrangement due to COVID-19 in . Effects to KD1C	1	0 days	NA	NA						77			

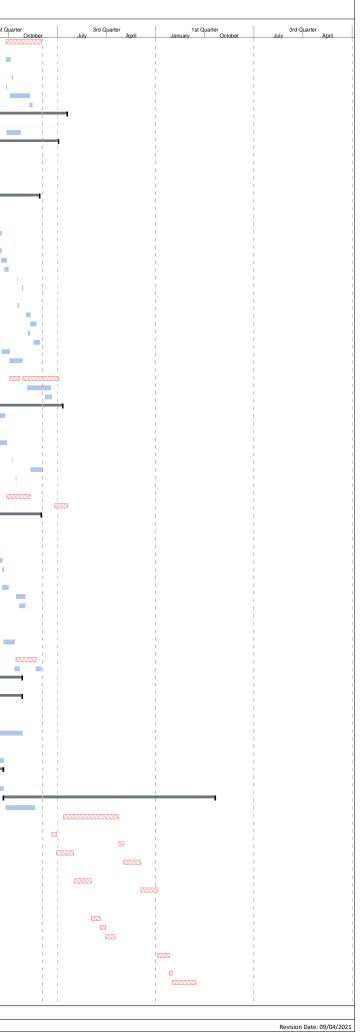


	Task Name	CE for NCE/ECE/PMI Inclement	Baseline E Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	Actual Start	Actual Finish Predecessors	Successors	Total Slack Risk Allowance	e % Complete Individual Critical Path	uarter	
ET1C-1210	Special working arrangement due to COVID-19 in January 2020	Weather	0 days	NA .	NA	4 days	Sat 22/10/22	Wed 26/10/22	NA	NA 23	76	1940 days	0% IW	April	_
ET1F-1000	Effects to KD1F			AA AA	NA NA	74.5 days	Wed 23/3/22	Sun 5/6/22	NA	NA		2163 days	0% IW		i.
ET1F-1100 ET1F-1110	Inclement Weather to KD1F (cal. Day) Delay and Disruption of Works before February 2021			NA A	NA	74.5 days 74.5 days	Wed 23/3/22 Wed 23/3/22	Sun 5/6/22 Sun 5/6/22	NA			2163 days 2163 days	0% IW 0% IW	_	1
ET1F-1120	Delay and Disruption of Works for the month of February 2021			NA	NA	0 days	Sun 5/6/22	Sun 5/6/22	NA			2163 days	0% IW	_	1
ET1G-1000	Effects to KD1G		0 days	A	NA	73.5 days	Wed 17/8/22	Sat 29/10/22	NA	NA		2017 days	0% IW		i.
ET1G-1100	Inclement Weather to KD1G (cal. Day)			A	NA	73.5 days	Wed 17/8/22	Sat 29/10/22	NA			2017 days	0% IW		I
ET1G-1110	Delay and Disruption of Works before February 2021		0 days		NA	73.5 days	Wed 17/8/22	Sat 29/10/22	NA			2017 days	0% IW		
ET1G-1120	Delay and Disruption of Works for the month of February 2021			NA.	NA	0 days	Sat 29/10/22	Sat 29/10/22	NA	NA 86		2017 days	0% IW		i.
ET1H-1000 ET1H-1100	Effects to KD1H Inclement Weather to KD1H (cal. Day)				NA	73.5 days 73.5 days	Fri 22/10/21 Fri 22/10/21	Mon 3/1/22 Mon 3/1/22	NA	NA		2316 days 2316 days	0% IW 0% IW	-	1
ET1H-1110	Delay and Disruption of Works before February 2021			NA	NA	73.5 days	Fri 22/10/21	Mon 3/1/22	NA			2316 days	0% IW	_	1
ET1H-1120	Delay and Disruption of Works for the month of February 2021		0 days N	NA .	NA	0 days	Mon 3/1/22	Mon 3/1/22	NA			2316 days	0% IW	-	i.
ET1H-1000	Effects to KD1I		0 days	A	NA	30 days	Thu 29/7/21	Fri 27/8/21	NA	NA		2445 days	0% IW		1
ET1H-1100	Inclement Weather to KD1I (cal. Day)		0 days M	NA .	NA	30 days	Thu 29/7/21	Fri 27/8/21	NA	NA		2445 days	0% IW		i.
ET1H-1110	Delay and Disruption of Works before February 2021		0 days	NA .	NA	30 days	Thu 29/7/21	Fri 27/8/21	NA		95	2445 days	0% IW		i.
ET1H-1120	Delay and Disruption of Works for the month of February 2021			NA .	NA	0 days	Fri 27/8/21	Fri 27/8/21	NA			2445 days	0% IW		1
ET1H-1000 ET1H-1100	Effects to KD1J		0 days 1 0 days 1		NA NA	8.5 days 8.5 days	Mon 7/2/22 Mon 7/2/22	Tue 15/2/22 Tue 15/2/22	NA			2273 days 2273 days	0% IW 0% IW	4	i.
ET1H-1100	Inclement Weather to KD1J (cal. Day) Delay and Disruption of Works before February 2021			NA	NA	8.5 days	Mon 7/2/22	Tue 15/2/22	NA		99	2273 days	0% IW	-	i.
ET1H-1120	Delay and Disruption of Works for the month of February 2021			NA	NA	0 days	Tue 15/2/22	Tue 15/2/22	NA			2273 days	0% IW	-	1
ET2A-1000	Effects to KD2A		0 days		NA	85.5 days	Wed 26/10/22	Thu 19/1/23	NA	NA		1935 days	0% IW		i.
ET2A-1100	Inclement Weather to KD2A (cal. Day)			A	NA	81.5 days	Sun 30/10/22	Thu 19/1/23	NA	NA		1935 days	0% IW	1	1
2 ET2A-1110	Delay and Disruption of Works before February 2021		0 days	A	NA	81.5 days	Sun 30/10/22	Thu 19/1/23	NA	NA 105	103	1935 days	0% IW	1	1
B ET2A-1120	Delay and Disruption of Works for the month of February 2021		0 days	A	NA	0 days	Thu 19/1/23	Thu 19/1/23	NA			1935 days	0% IW		i.
ET2A-1200	Other Events to KD2A (not all)		0 days		NA	4 days	Wed 26/10/22	Sun 30/10/22	NA			1935 days	0% IW		1
5 ET2A-1210	Special working arrangement due to COVID-19 in January 2020		0 days		NA	4 days	Wed 26/10/22	Sun 30/10/22	NA		102	1935 days	0% IW		i.
ET2A-1000 ET2A-1100	Effects to KD2B		0 days 1 0 days 1	AA AA	NA NA	75 days 75 days	Sat 27/3/21 Sat 27/3/21	Wed 9/6/21 Wed 9/6/21	NA	NA		2524 days 2524 days	0% IW 0% IW	4	1
ET2A-1100 B ET2A-1110	Inclement Weather to KD2B (cal. Day) Delay and Disruption of Works before February 2021			AA AA	NA	75 days	Sat 27/3/21 Sat 27/3/21	Wed 9/6/21	NA		109	2524 days 2524 days	0% IW	-	1
ET2A-1110 ET2A-1120	Delay and Disruption of Works for the month of February 2021 Delay and Disruption of Works for the month of February 2021		0 days n 0 days N		NA	0 days	Wed 9/6/21	Wed 9/6/21	NA			2524 days 2524 days	0% IW	-	i.
ET2A-1120 ET3A-1000	Effects to KD3A		0 days		NA	84 days	Tue 16/1/24	Mon 8/4/24	NA			1490 days	0% IW	-	1
ET3A-1100	Inclement Weather to KD3A (cal. Day)			NA A	NA	80 days	Sat 20/1/24	Mon 8/4/24	NA			1490 days	0% IW	1	i.
2 ET3A-1110	Delay and Disruption of Works before February 2020		0 days N	NA.	NA	80 days	Sat 20/1/24	Mon 8/4/24	NA	NA 115	113	1490 days	0% IW		1
B ET3A-1120	Delay and Disruption of Works for the month of February 2020		0 days 🛛 🕅	A	NA	0 days	Mon 8/4/24	Mon 8/4/24	NA	NA 112		1490 days	0% IW	-	1
ET3A-1200	Other Events to KD3A (not all)		0 days	A	NA	4 days	Tue 16/1/24	Fri 19/1/24	NA			1490 days	0% IW		i.
5 ET3A-1210	Special working arrangement due to COVID-19 in January 2020			NA.	NA	4 days	Tue 16/1/24	Fri 19/1/24	NA		112	1490 days	0% IW		1
ETS1-1000	Effects to Section 1 of the Works		0 days		NA	89.5 days	Tue 8/2/28	Sun 7/5/28	NA	NA		0 days	0% IW	4	
ETS1-1100	Inclement Weather to Section 1 of the Works (cal. Day) Delay and Disruption of Works before February 2021			AF A	NA	85.5 days 85.5 days	Sat 12/2/28 Sat 12/2/28	Sun 7/5/28 Sun 7/5/28	NA NA			0 days	0% IW 0% IW	_	i i
ETS1-1110 ETS1-1120	Delay and Disruption of Works for the month of February 2021			NA NA	NA	0 days	Sun 7/5/28	Sun 7/5/28	NA			0 days	0% IW	-	
ETS1-1200	Other Events to Section 1 of the Works (not all)		0 days M		NA	4 days	Tue 8/2/28	Sat 12/2/28	NA			0 days	0% IW	-	i
ETS1-1210	Special working arrangement due to COVID-19 in January 2020			NA .	NA	4 days	Tue 8/2/28	Sat 12/2/28	NA		118	0 days	0% IW	-	1
ETS2-1000	Effects to Section 2 of the Works		0 days	A	NA	83.5 days	Sat 23/7/22	Fri 14/10/22	NA	NA		2032 days	0% IW		1
B ETS2-1100	Inclement Weather to Section 2 of the Works (cal. Day)		0 days M	NA .	NA	79.5 days	Wed 27/7/22	Fri 14/10/22	NA	NA		2032 days	0% IW	1	i.
ETS2-1110	Delay and Disruption of Works before February 2021		0 days	NA.	NA	79.5 days	Wed 27/7/22	Fri 14/10/22	NA			2032 days	0% IW		
5 ETS2-1120	Delay and Disruption of Works for the month of February 2021			NA .	NA	0 days	Fri 14/10/22	Fri 14/10/22	NA			2032 days	0% IW		1
ETS2-1200	Other Events to Section 2 of the Works (not all)		0 days		NA	4 days	Sat 23/7/22	Wed 27/7/22	NA			2032 days	0% IW	_	
ETS2-1210	Special working arrangement due to COVID-19 in January 2020			NA.	NA	4 days 83.5 days	Sat 23/7/22	Wed 27/7/22 Tue 3/9/24	NA	NA 36	124	2032 days	0% IW	_	
ETS3-1000 ETS3-1100	Effects to Section 3 of the Works Inclement Weather to Section 3 of the Works (cal. Day)		0 days 1 0 days 1	NA NA	NA	79.5 days	Wed 12/6/24 Sun 16/6/24	Tue 3/9/24	NA	NA		1342 days 1342 days	0% IW 0% IW	4	
D ETS3-1110	Delay and Disruption of Works before February 2021			IA.	NA	79.5 days	Sun 16/6/24	Tue 3/9/24	NA	NA 133	131	1342 days	0% IW	-	
ETS3-1120	Delay and Disruption of Works for the month of February 2021		0 days N	NA .	NA	0 days	Tue 3/9/24	Tue 3/9/24	NA	NA 130		1342 days	0% IW	-	
2 ETS3-1200	Other Events to Section 3 of the Works (not all)		0 days	A	NA	4 days	Wed 12/6/24	Sun 16/6/24	NA	NA		1342 days	0% IW	-	i.
B ETS3-1210	Special working arrangement due to COVID-19 in January 2020		0 days 🛛 🕅	A	NA	4 days	Wed 12/6/24	Sun 16/6/24	NA	NA 37	130	1342 days	0% IW	-	1
SUB-1000	Submissions (cal.day)			Non 18/11/19	Wed 28/2/24	1956 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA		1137 days	50%	4 5	
SUBS-1000 SUBS-1010	Subletting Package Prepare & submit subletting procedure			Mon 18/11/19 Mon 18/11/19	Fri 21/2/20 Fri 29/11/19	12 days	Mon 18/11/19 Mon 18/11/19	Tue 1/6/21 Fri 29/11/19	Mon 18/11/19 Mon 18/11/19		137	638 days 0 days	76% 100%	4 7	1
SUBS-1020	PM review and accept subletting procedure			Sat 30/11/19	Wed 11/12/19	12 days	Sat 30/11/19	Wed 11/12/19	Sat 30/11/19	Wed 11/12/19 136	158,138,141,140,139	0 days	100%	1	
SUBS-1030	Subletting for demolition works			Thu 12/12/19	Sat 4/1/20	93 days	Tue 17/12/19	Wed 18/3/20	Tue 17/12/19			0 days	100%	_	
SUBS-1040 SUBS-1050	Subletting for UU diversion for Inlet Works No.1 Subletting for Inspection pit excavation			Thu 12/12/19	Sat 4/1/20 NA	78 days 56 days	Fri 10/1/20 Thu 19/12/19	Fri 27/3/20 Wed 12/2/20	Fri 10/1/20 Thu 19/12/19		222 224,142	0 days 0 days	100%	-	
SUBS-1060	Subletting for Preliminary Works (topographic surveying)			Thu 12/12/19	Wed 25/12/19	54 days	Fri 20/12/19	Tue 11/2/20	Fri 20/12/19		175,208,145,146,147,143	•	100%	-	Ε.
SUBS-1070	Subletting for AR3 access road			Thu 12/12/19	Sat 4/1/20	0 days	Fri 13/12/19	Tue 11/2/20	Fri 13/12/19	Tue 11/2/20 140 Fri 20/3/20 141,142	143,220	0 days	100%	_	÷
SUBS-1080 SUBS-1090	Subletting for pre-drilling works Subletting for Contractor designer for temporary works and ICE			Thu 12/12/19 Thu 12/12/19	Sat 4/1/20 Sat 4/1/20	38 days 71 days	Thu 6/2/20 Mon 16/12/19	Fri 20/3/20 Mon 24/2/20	Thu 6/2/20 Mon 16/12/19		439,348,406,144 352,382,443,465,474,453,48	0 days 0 days	100%		
SUBS-1100	Subletting for independent BIM consultant		24 days 1	Thu 12/12/19	4/1/120	0 days	Wed 11/12/19	Thu 23/1/20	Wed 11/12/19	Thu 23/1/20 141	203	0 days	100%	-	•
SUBS-1110	Subletting for independent BIM services			NA	NA	15 days	Tue 14/1/20	Wed 26/2/20	Tue 14/1/20			0 days	100%	_	1
SUBS-1120	Subletting for Design, Supply & Install of Temporary Activated Carbon Deodorization Units (E&M Works)		0 days N	AA	NA	0 days	Fri 13/12/19	Tue 11/2/20	Fri 13/12/19	Tue 11/2/20 141	148,149	0 days	100%		
3 SUBS-1130	Subletting for pre-bored H pile works			Thu 12/12/19	Thu 16/1/20	45 days	Sun 5/7/20	Tue 18/8/20	Sun 5/7/20			0 days	100%		i.
9 SUBS-1140 9 SUBS-1150	Subletting for Sheetpile installation works Subletting for ELS works for Inlet Works No.1			NA Sun 5/1/20	NA Fri 21/2/20	45 days 85 days	Tue 1/9/20 Fri 16/10/20	Thu 15/10/20 Fri 8/1/21	Tue 1/9/20 Fri 16/10/20	Thu 15/10/20 147 Fri 8/1/21 149	322,350,380,442,150,151 324	0 days 0 days	100%	_	1
SUBS-1150 SUBS-1160	Subletting for ELS works for Membrance Facilities Building and other			Sun 5/1/20 Sun 5/1/20	Fri 21/2/20	85 days 85 days	Fri 16/10/20	Fri 8/1/21	Fri 16/10/20		352,382,443,152,153,154,15		100%	-	1
	buildings														i.
SUBS-1170 SUBS-1180	Subletting for structural works for Inlet Works Building Subletting for structural works for Primary Sedimentation Tanks			Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 Tue 28/1/20	48 days 48 days	Sat 9/1/21 Sat 9/1/21	Thu 25/2/21 Thu 25/2/21	NA	NA 151 NA 151	327 353	42 days 610 days	0%	-	1
SUBS-1190	Subletting for structural works for Bioreactors		48 days 1	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	NA	NA 151	383	39 days	0%	-	1
SUBS-1200	Subletting for structural works for Membrance Facilities Building			Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	NA		417	203 days	0%	_	i.
SUBS-1210	Subletting for structural works for SAS pumping house and ancillary structures		48 days 1	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	NA	NA 151	444,157	10 days	0%		
7 SUBS-1220	Subletting for ABWF works			Thu 12/12/19	Tue 28/1/20	48 days	Fri 26/2/21	Wed 14/4/21	NA		341,355,390,446,472,478,45		0%		i.
SUBS-1230	Subletting for Process Pipeworks, Utilities and Roadworks			Thu 12/12/19	Tue 28/1/20	150 days	Fri 22/5/20	Sun 18/10/20	Fri 22/5/20	Sun 18/10/20 137 NA 157	503,514,522,523,524,525,52		100%	_	1
9 SUBS-1240 0 SUBS-1250	Subletting for Landscape Hardworks and Softworks Subletting for Trial dewatering works and installation of additional stop logs			Thu 12/12/19	Tue 28/1/20 NA	48 days 15 days	Thu 15/4/21 Tue 15/9/20	Tue 1/6/21 Tue 29/9/20	NA Tue 15/9/20		530,531,532 360	638 days 0 days	0% 100%	-	1
	at BR2 connon channel due to malfucntioned of existing penstock at FST no. 5 and 7 (EWN 055)														i.
SUBS-1260			0 days M	NA .	NA	14 days	Mon 21/9/20	Sun 4/10/20	Mon 21/9/20	Sun 4/10/20		0 days	100%	_	
3000-1200	Subletting for Diversion of Power supply for existing Slaghter House pump station (CE 034)		Juays P			i+ uays	WOT 2 1/3/20	JJII 4/ 10/20	wion 21/9/20	301 1/10/20		- says	10076		i.
	Subletting for Decommission of exisiting power and signal systems in		0 days 🛛 🕅	A	NA	14 days	Mon 21/9/20	Sun 4/10/20	Mon 21/9/20	Sun 4/10/20	428	0 days	100%		1
SUBS-1270														1	
SUBS-1270 SUBS-1280	leachate Pump station switch room (PMI 039) Subletting for Diversion of Existing DN250 Leachate Raising Main (PPMI 025)		0 days M	A	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		0 days	100%	-	1

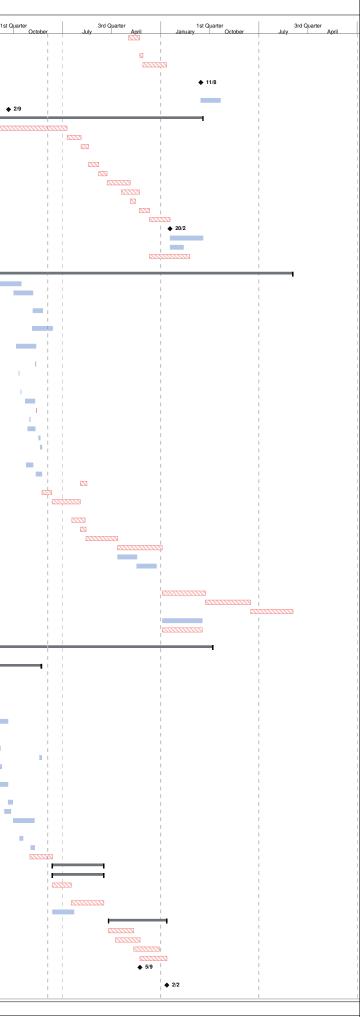


D Activity ID	ng Plant - Main Works Stage 1									Revised Works Programme (Status Date	28/02/2021)						
Activity ID Key Date		CE for NCE/ECI	E/PMI Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish Predecessors	Successors	Total Slack	Risk Allowance % Complete Individual Critical Pa	ath uarter 1st Quarter	3rd Quarter	1st Quarter	3rd Quarter
SUBS-1290	Subletting for Construction of Cable trough for CLP 11kv Cable Diversion	Weather	0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20	429,440	0 days	100%	April January October	3rd Quarter July April	January October	3rd Quarter July
01/17/0 1000	(PPMI 041)																1
SUBS-1300	Subletting for Demolition of Existing Pillar box and its concrete plinth (CE 030)		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20	430	0 days	100%			1	1
SUBS-1310	Subletting for Excavation to locate existing underground cable near SAS Pump Station (PPMI 038)		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20	431	0 days	100%	-			
' SUBS-1320	Subletting for Diversion of pumping system sewerage (PPMI 083)		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20	435	0 days	100%	- i <b>_</b> i			
3 SUBA-1000	Statutory Submission, Submission and Approval			ys Mon 18/11/19	Wed 28/2/24	1956 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA	5055	1137 days	43%			1	
9 SUBA-1010	Liaison with operator of SWHSTW and obtain their consent of associated method statement of major activities		0 days	NA	NA	1584 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA 2	59FF	975 days	19%			1	
0 SUBA-1020 1 SUBA-1030	Prepare and submit Subcontractor Management Plan (SMP)		24 days 36 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Mon 23/12/19	24 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Mon 23/12/19	Mon 18/11/19 Mon 18/11/19		138,141,140	0 days 0 days	100%	!			1
2 SUBA-1040	Prepare and submit Interface Management Plan Prepare and submit the TTA plans inside Treatment Plant for UU diversion		24 days		Wed 11/12/19	36 days 24 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19	Mon 18/11/19		211	0 days 0 days	100%				
73 SUBA-1050	and buildings construction		10 1	M 10/11/10	5-00/14/40	10 1-1-1-	M 10//1//0	E-: 00//1//0	M 10/11/10	5-00/44/00	174	0.45.05	4000			1	1
73 SUBA-1050	Prepare and submit method statement for UU diversion for Inlet Works No.	I	12 days	Mon 18/11/19	Fri 29/11/19	12 days	Mon 18/11/19	Fri 29/11/19	Mon 18/11/19	Fri 29/11/19 2	174	0 days	100%	•			1
74 SUBA-1060 75 SUBA-1070	PM review and accept the method statement Prepare and submit combine underground services drawing for PM's review	,	12 days 24 days	Sat 30/11/19 Thu 26/12/19	Wed 11/12/19 Sat 18/1/20	0 days 23 days	Sat 30/11/19 Thu 26/12/19	Wed 11/12/19 Sat 18/1/20	Sat 30/11/19 Thu 26/12/19		223,224	0 days 0 days	100%			1	1
SOBATOTO	the alignment		24 Udy3	110 20 12/13	Sat 10/1/20	20 days	110 20/12/13	Sat 10/1/20	110 20/12/13	Sat 10/1/20 141		0 days	100%			1	
76 SUBA-1080 77 SUBA-1090	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings		24 days 24 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Wed 11/12/19	66 days 197 days	Mon 18/11/19 Mon 18/11/19	Wed 22/1/20 Mon 1/6/20	Mon 18/11/19 Mon 18/11/19		394,347,448,306,510,366	6 0 days 0 days	100%	<b>—</b>			1
78 SUBA-1100	Prepare and submit method statements to MTRC regarding the works within	n	36 days		Mon 23/12/19	92 days	Sat 1/2/20	Mon 25/5/20	Sat 1/2/20		347,448,510,306,366	0 days	100%				1
79 SUBA-1110	railing protection boundary Prepare and submit & approve Safety Management Plan		24 days	Mon 18/11/19	Wed 11/12/19	3 days	Mon 18/11/19	Wed 20/11/19	Mon 18/11/19	Wed 20/11/19 2		0 days	100%		1	1	1
80 SUBA-1120	Prepare and submit excavation and lateral support (ELS) proposal		24 days		Wed 4/3/20	128 days	Mon 10/2/20	Tue 16/6/20	Mon 10/2/20			0 days	100%				
31 SUBA-1130	Prepare and submit Dewatering proposal for basement construction		24 days	Mon 10/2/20	Wed 4/3/20	165 days		Thu 23/7/20	Mon 10/2/20			0 days	100%				1
32 SUBA-1140	Prepare and submit Pre-construction condition survey of existing structures services		24 days	Wed 5/2/20	Fri 28/2/20	0 days	Mon 18/11/19	Fri 6/3/20	Mon 18/11/19	Fri 6/3/20 208		0 days	100%				1
3 SUBA-1150	Prepare and submit Settlement and movement monitoring proposal of existing structures/ services		24 days	Wed 5/2/20	Fri 28/2/20	110 days	Mon 18/11/19	Fri 6/3/20	Mon 18/11/19	Fri 6/3/20 208		0 days	100%			1	1
4 SUBA-1160	Prepare and submit design of structure elements of the temporary activated	I I I I I I I I I I I I I I I I I I I	60 days	Fri 17/1/20	Mon 16/3/20	60 days	Mon 18/11/19	Mon 16/3/20	Mon 18/11/19	Mon 16/3/20 2FS+60 days		0 days	100%	_	1	1	1
5 SUBA 1170	carbon deodourization unit		100	Map 19/10/01				Externo		-	512	222 dau-	00			1	1
35 SUBA-1170	Prepare of RSE and structural design for alternation and additional (A&A) works at Membrane Facilities Building No.1		180 days	Mon 18/10/21	Fri 15/4/22	180 days	Mon 18/10/21	Fri 15/4/22	NA	NA	512	332 days	0%				1
86 SUBA-1180	Prepare of RSE and structural design for alternation and additional (A&A) works at Main Power House		44 days	Wed 15/7/20	Thu 3/9/20	60 days	Mon 6/7/20	Thu 3/9/20	Mon 6/7/20	Thu 3/9/20	510	0 days	100%		1		1
87 SUBE-1000	Environmental Aspect Submissions		45 days	Mon 18/11/19	Wed 1/1/20	81 days	Mon 18/11/19	Thu 6/2/20	Mon 18/11/19	Thu 6/2/20		0 days	100%				
88 SUBE-1010	Prepare, submit & approve Site Management Plan for Trip Tricket System		45 days	Mon 18/11/19	Wed 1/1/20	66 days	Mon 18/11/19	Wed 22/1/20				0 days	100%	-		1	1
39 SUBE-1020	Prepare, submit & approve Waste Management Plan		45 days	Mon 18/11/19	Wed 1/1/20	81 days	Mon 18/11/19	Thu 6/2/20	Mon 18/11/19	Thu 6/2/20 2		0 days	100%			1	1
90 SUBE-1030	Prepare, submit & approve Environmental Management Plan		45 days	Mon 18/11/19	Wed 1/1/20	66 days	Mon 18/11/19	Wed 22/1/20	Mon 18/11/19	Wed 22/1/20 2		0 days	100%				1
91 SUBP-1000 92 SUBP-1010	Procurement Prepare and submit the Procurement Procedure		731 days	Mon 18/11/19 Mon 18/11/19	Wed 17/11/21 Fri 29/11/19	648 days 2 days	Mon 18/11/19 Mon 18/11/19	Thu 26/8/21 Tue 19/11/19	Mon 18/11/19 Mon 18/11/19		193	642 days 0 days	81% 100%	-			
93 SUBP-1020	PM Review & Accept Procurement Procedure		12 days		Wed 11/12/19	21 days	Tue 19/11/19	Tue 10/12/19	Tue 19/11/19	Tue 10/12/19 192	194,195,196,197,198,199	9,20 0 days	100%				1
94 SUBP-1030 95 SUBP-1040	Prepare, submit and approve the pipe works material Prepare, submit and approve the water proofing material		25 days 25 days	Thu 12/12/19 Thu 12/12/19	Sun 5/1/20 Sun 5/1/20	34 days 25 days	Thu 6/2/20 Mon 2/8/21	Tue 10/3/20 Thu 26/8/21	Thu 6/2/20 NA	Tue 10/3/20 193 NA 193	222,503,523,524,526,525 334,338	5,52 0 days	100% 0%			1	1
96 SUBP-1050	Prepare, submit and approve the concrete mix material		48 days	Thu 12/12/19	Tue 28/1/20	90 days	Mon 3/2/20	Sat 2/5/20	Mon 3/2/20		327,383,444,417	0 days	100%			1	
7 SUBP-1060 8 SUBP-1070	Prepare, submit and approve the rebar material		48 days 48 days	Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 Tue 28/1/20	49 days	Sat 23/5/20	Fri 10/7/20 Sun 18/10/20	Sat 23/5/20 Tue 1/9/20		327,383,444,417 327,383,444,417	0 days 0 days	100%				1
99 SUBP-1080	Prepare, submit and approve the metal works material Prepare, submit and approve the ABWF works material		48 days 48 days	Sat 12/12/19	Tue 28/1/20	48 days 48 days	Tue 1/9/20 Mon 1/3/21	Sat 17/4/21	NA	NA 193	341,355,390,446,472,478	1.1.9.1	0%	_			1
00 SUBP-1090	Prepare, submit and approve the protective lining to concrete		0 days	NA	NA	48 days	Tue 1/9/20	Sun 18/10/20	Tue 1/9/20		327,383,444,417	0 days	100%			1	1
01 SUBP-1100 02 SUBB-1000	Prepare, submit and approve the multi-part covers BIM		0 days 1205 day	NA ys Thu 6/2/20	NA Wed 28/2/24	21 days 1562 days	Tue 5/5/20 Mon 18/11/19	Mon 25/5/20 Fri 28/2/25	Tue 5/5/20 Mon 18/11/19			0 days 997 days	100% 16%			1	
03 SUBB-1010	Prepare, submit and approve the proposal of details of Common data environment (CDE)		48 days		Wed 1/4/20	37 days		Wed 1/4/20	Mon 18/11/19	Wed 1/4/20 145,146	204	0 days	100%			1	- -
	environment (ODE)														1	1	
04	Prepare and submit BIM submission		1484 day	/s Thu 6/2/20	Wed 28/2/24	1451 days	Thu 2/4/20	Fri 28/2/25	Thu 2/4/20	NA 203		997 days	14%				
05 C-1000 *	Prepare and submit BIM submission Construction Works (Working day)		1957 day	ys Thu 6/2/20 ys Mon 18/11/19	Thu 27/3/25	1451 days 1986 days?	Thu 2/4/20 Mon 18/11/19	Fri 25/4/25	Mon 18/11/19	NA		997 days 1108 days?	32%			1	
5 C-1000 * 6 CPW-1000			1957 day 109 days	ys Mon 18/11/19 s Mon 18/11/19			Mon 18/11/19		Mon 18/11/19	NA Tue 17/3/20							
C-1000         *           6         CPW-1000           1         CAR-0000           4         CIW-0000	Construction Works (Working day) Preliminary Works Access Road (AR3), 8-1 Inlet Works No.1, B-2		1957 day 109 days 193 days 854 days	Mon 18/11/19           s         Mon 18/11/19           s         Mon 20/1/20           s         Mon 6/1/20	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22	1986 days? 121 days 238 days 1188 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19	Fri 25/4/25 Tue 17/3/20 Wed 30/9/20 Tue 28/11/23	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19	NA Tue 17/3/20 Wed 30/9/20 4,172 NA		1108 days?0 days0 days59 days	32% 100% 100% 47%			       	
006         CPW-1000         *           111         CAR-0000         *           21         CIW-0000         *           22         CIW-1000         *	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Inlet Works No.1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)		1957 day109 days193 days854 days180 days	ys         Mon 18/11/19           s         Mon 18/11/19           s         Mon 20/1/20           s         Mon 6/1/20           s         Mon 6/1/20	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20	1986 days? 121 days 238 days 1188 days 459 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19	Fri 25/4/25 Tue 17/3/20 Wed 30/9/20 Tue 28/11/23 Wed 16/6/21	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19	NA Tue 17/3/20 Wed 30/9/20 4,172 NA NA 194,139	43FF	1108 days?0 days0 days59 days36 days	22% 100% 100% 47% 59%			         	
5         C-1000         *           06         CPW-1000         *           11         CAR-0000         *           21         CW-0000         *           22         CW-1000         *           23         CW-1100         *	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No.1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenlify existing UU arrangement		1957 day           109 days           193 days           854 days           180 days           12 days	Mon 18/11/19           s         Mon 18/11/19           s         Mon 20/1/20           s         Mon 6/1/20           s         Mon 6/1/20	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22	1986 days? 121 days 238 days 1188 days 459 days 0 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19	Fri 25/4/25 Tue 17/3/20 Wed 30/9/20 Tue 28/11/23 Wed 16/6/21 Sat 18/1/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19	NA Tue 17/3/20 Wed 30/9/20 4,172 NA NA 194,139 Sat 18/1/20 174	43FF 22455,226 242,261	1108 days?       0 days       0 days       59 days       36 days       0 days	32% 100% 100% 47% 59% 100%	-	-     		
C-1000         •           6         CPW-1000         •           11         CAR-0000         •           21         CIW-0000         •           22         CIW-1000         •           23         CIW-1100         =           24         CIW-1200         •	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenity existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon		1957 day109 days193 days854 days180 days	Mon 18/11/19           s         Mon 18/11/19           s         Mon 20/1/20           s         Mon 6/1/20           s         Mon 6/1/20	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20	1986 days? 121 days 238 days 1188 days 459 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19	Fri 25/4/25 Tue 17/3/20 Wed 30/9/20 Tue 28/11/23 Wed 16/6/21	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20	NA           Tue 17/3/20           Wed 309/20 4,172           NA           Sat 18/1/20           Sat 18/1/20           Tue 10/3/20           174,2235S,140	224SS,226	1108 days?0 days0 days59 days36 days	22% 100% 100% 47% 59%		-     		
5         C-1000         •           6         CPW-1000         •           11         CAR-0000         •           21         CIW-0100         •           22         CIW-1000         •           23         CIW-1100         •           24         CIW-1200         •           25         CIW-1300         •	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodorization Unit for the Existing Inlet Works		1957 day           109 days           193 days           854 days           180 days           12 days           24 days           0 days	Mon 18/11/19           s         Mon 18/11/19           s         Mon 20/1/20           s         Mon 6/1/20           s         Mon 6/1/20	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20	1986 days?           121 days           238 days           1188 days           459 days           0 days           0 days           98 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20	Fri 25/4/25 Tue 17/3/20 Wed 30/9/20 Tue 28/11/23 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA           Sat 18/1/20           Tue 10/3/20 174,223SS,140           Sat 11/7/20	224SS,226 242,261	1108 days?       0 days       0 days       59 days       36 days       0 days	32%           100%           100%           47%           59%           100%           100%           100%           100%	-	-     		
6         C-1000         •           6         CPW-1000         •           1         CAR-0000         •           1         CW-2000         •           2         CIW-1000         •           3         CIW-1100         •           4         CIW-1200         •           5         CIW-1300         •           6         CIW-1310         •           7         CIW-1320         •	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenity existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon		1957 day           109 days           193 days           854 days           180 days           12 days           24 days	Mon 18/11/19           s         Mon 18/11/19           s         Mon 20/1/20           s         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA	1986 days? 121 days 238 days 1188 days 459 days 0 days 0 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20	Fri 25/4/25 Tue 17/3/20 Wed 30/9/20 Tue 28/11/23 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA           Sat 18/1/20           Tue 10/3/20           T1/7/20           Wed 8/4/20           Wed 8/4/20	224SS,226	1108 days?       0 days       0 days       59 days       36 days       0 days       0 days	32%           100%           47%           59%           100%           100%	-	-     		
5         C-1000         +           6         CPW-1000         -           1         CAR-0000         +           1         CAR-0000         +           2         CIW-1000         +           3         CIW-1000         +           5         CIW-1200         -           5         CIW-1200         +           6         CIW-1300         +           7         CIW-1320         8           8         CIW-1330         +	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intet Works No. 1, B-2 Diversion Works (1. Intel Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenity existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodorization Unit for the Existing Intel Works Construction of concrete plinth Installation of Decodrizer Testing & commissioning		1957 day           109 days           193 days           854 days           180 days           12 days           24 days           0 days           0 days           0 days           0 days           0 days           0 days	ys         Mon 18/11/19           5         Mon 18/11/19           5         Mon 20/1/20           6         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA           NA           NA	1986 days?           121 days           238 days           1188 days           459 days           0 days           0 days           98 days           24 days           40 days           15 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20	Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 18/1/20           Wed 8/4/20           Sat 30/5/20           Wed 17/6/20	Mon 18/11/19 Mon 18/11/19 Tuu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           Sat 18/1/20 174           Tue 10/3/20 174,223S,140           Sat 11/7/20           Wed 8/4/20 223           Sat 305/20 226           Wed 17/6/20 227	224SS,226 242,261 227	1108 days?           0 days           0 days           0 days           36 days           0 days	32%           100%           100%           47%           59%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%		-     		
6         C-1000         •           6         CPW-1000         •           1         CAR-0000         •           2         CAR-0000         •           22         CIW-1000         •           23         CIW-1000         •           24         CIW-1200         •           25         CIW-1300         •           26         CIW-1310         •           27         CIW-1320         •           28         CIW-1330         •	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intet Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Inlet Works Construction of concrete plinth Installation of Decodrizer Testing & commissioning Demolishment of the existing carbon decodrization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete		1957 day           109 days           193 days           854 days           180 days           12 days           24 days           0 days	Mon 18/11/19           Mon 18/11/19           Mon 20/1/20           Mon 61/20           Mon 61/20           Mon 61/20           Mon 61/20           NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA	1986 days?           121 days           238 days           1186 days           459 days           0 days           0 days           98 days           24 days           40 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20	Fri 25/425 Tue 17/3/20 Wed 30/9/20 Tue 28/11/23 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 1/6/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA           NA           Sat 18/1/20           Tue 10/3/20           Table 11/7/20           Wed 8/4/20           Sat 30/5/20           Sat 30/5/20           Sat 30/5/20           Sat 11/7/20           Sat 11/7/20	224SS,226 242,261 227 228	1108 days?           0 days           0 days           0 days           0 days           36 days           0 days	32% 100% 100% 59% 59% 100% 100% 100% 100% 100% 100% 100%		-     		
6         C-1000         •           6         CPW-1000         •           1         CAR-0000         •           2         CAR-0000         •           22         CIW-1000         •           23         CIW-1000         •           24         CIW-1200         •           25         CIW-1300         •           26         CIW-1310         •           27         CIW-1320         •           28         CIW-1330         •	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sever, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenlify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Intel Works Construction of concrete plinth Installation of Deodorizer Testing & commissioning Demolishment of the existing carbon deodorization unit		1957 day           109 days           193 days           854 days           180 days           12 days           24 days           0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           S         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA           NA         NA           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA           NA           NA           NA           NA           NA           NA           NA	1986 days?           121 days           236 days           1188 days           459 days           0 days           0 days           98 days           24 days           40 days           20 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/420 Mon 1/6/20 Wed 17/6/20	Fri 25/4/25 Tue 17/3/20 Wed 30/9/20 Tue 28/11/23 Wed 16/6/21 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 1/6/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA           NA           Sat 18/1/20           Tue 10/3/20           Table 11/7/20           Wed 8/4/20           Sat 30/5/20           Sat 30/5/20           Sat 30/5/20           Sat 11/7/20           Sat 11/7/20	224SS,226 242,261 227 228	1108 days?           0 days           0 days           0 days           0 days           36 days           0 days	32%           100%           100%           47%           59%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%		-     		
C-1000         C-1000           CPW-1000         -           CAP-0000         -           CAP-0000         -           CIW-1000         -           Z         CIW-1000           CIW-1000         -           GUV-1000         -           GUV-1000         -           GUV-1100         -           GUV-1200         -           GUV-1300         -           GUV-1310         -           GUV-1300         -           GUV-1300         -           GUV-1300         -           GUV-1340         -	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intet Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Inlet Works Construction of concrete plinth Installation of Decodrizer Testing & commissioning Demolishment of the existing carbon decodrization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete		1957 day           109 days           193 days           854 days           180 days           12 days           24 days           0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           S         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA           NA         NA           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA           NA           NA           NA           NA           NA           NA           NA	1986 days?           121 days           236 days           1188 days           459 days           0 days           0 days           98 days           24 days           40 days           20 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20	Fri 25/4/25 Tue 17/3/20 Wed 30/9/20 Tue 28/11/23 Wed 16/6/21 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 1/6/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA           NA           Sat 18/1/20           Tue 10/3/20 174           Tue 10/3/20 174,223S,140           Sat 11/7/20           Wed 8/4/20 223           Sat 30/5/20 226           Wed 11/7/20           Sat 11/7/20           NA	224SS,226 242,261 227 228	1108 days?           0 days           0 days           0 days           0 days           36 days           0 days	32%           100%           100%           47%           59%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%		-     		
C-1000         *           C-W-1000         *           CAR-0000         *           CAR-0000         *           CIW-1000         *           2         CIW-1000           3         CIW-1000           4         CIW-1000           5         CIW-1000           6         CIW-1200           6         CIW-1300           7         CIW-1320           6         CIW-1340           9         CIW-1400           2         CIW-1405           2         CIW-1410	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Intel Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodorization Unit for the Existing Intel Works Construction of concrete plinth Installation of Decodrizer Testing & commissioning Demoishment of the existing carbon decodrization unit Diversion of Intel Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Intel Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage		1957 day           199 days           193 days           854 days           180 days           12 days           24 days           0 days           146 days           0 days           1 0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA           NA           NA           NA           NA           NA           NA           NA	1986 days? 121 days 238 days 138 days 1188 days 459 days 0 days 98 days 24 days 24 days 20 days? 374 days? 24 days 24 days 8 days?	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Mon 9/3/20	Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223S,140           Sat 18/1/20 223           Sat 17/7/20           Wed 8/4/20 223           Sat 17/7/20 2265           Wed 17/6/20 227           Sat 11/7/20 226FS-1 day           NA           Wed 16/12/20           Tue 17/3/20 231	224SS,226 242.261 227 228 229FS-1 day 232 233	1108 days?           0 days           0 days           0 days           0 days           59 days           26 days           0 days	32%           100%           100%           47%           59%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%		-     		
C-1000         P           CPW-1000         P           CAR-0000         P           CAR-0000         P           CAR-0000         P           CIW-1000         P           2         CIW-1000           3         CIW-1000           4         CIW-1200           5         CIW-1300           6         CIW-1310           7         CIW-1310           2         CIW-1310           3         CIW-1310           4         CIW-1340           5         CIW-1440           6         CIW-1410	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Inlet Works No.1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial piles to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works Construction of concrete pinth Installation of Deodorizer Testing & commissioning Demolishment of the existing carbon deodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Initia Survey arrangement with MTRCL		1957 day           199 days           193 days           193 days           193 days           180 days           181 days           12 days           24 days           0 days           146 days           0 days           1 0 days           1 0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA           NA           NA           NA           NA           NA           NA           NA	1986 days? 121 days 238 days 1188 days 459 days 0 days 96 days 24 days 40 days 24 days 374 days? 274 days	Mon 18/11/19 Mon 18/11/19 Thu 12/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20	Fri 25/425           Tue 17/3/20           Wed 30/27           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 18/1/20           Sat 18/1/20           Sat 18/1/20           Sat 18/1/20           Sat 18/1/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Thu 9/4/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA           NA           Sat 18/1/20           Tue 10/3/20 174,223S,140           Sat 18/1/20           Sat 18/1/20 174           Tue 10/3/20 174,223SS,140           Sat 11/7/20           Wed 8/4/20 223           Sat 30/5/20 226           Wed 16/12/20           Tue 16/12/20           Tue 16/12/20           Tue 16/12/20           Tue 16/12/20           Tue 11/7/3/20 231           Thu 7/5/20 232	224\$\$,226 242,261 227 228 229F\$-1 day 229F\$-1 day	1108 days?           0 days           0 days           59 days           36 days           0 days	32%           100%           100%           47%           59%           100%		-     		
5         C-1000         +           6         CPW-1000         -           1         CAR-0000         +           1         CAR-0000         +           1         CAR-0000         +           2         CIW-1000         +           3         CIW-1100         +           4         CIW-1200         -           5         CIW-1300         +           6         CIW-1310         -           7         CIW-1320         +           8         CIW-1340         -           0         CIW-1430         -           1         CIW-1405         -           2         CIW-1405         -           3         CIW-1422         -	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodorization Unit for the Existing Inlet Works Construction of concrete plinth Installation of Decodorizer Testing & commissioning Demolishment of the existing carbon decodrization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted Studge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted DN250 sludge pipe Additional Underground Utility Scanning for existing sludge pipe	008 41	1957 day           199 days           193 days           854 days           180 days           12 days           24 days           0 days           146 days           1         0 days           1         0 days           1         0 days           2         0 days           2         0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Sat 11/1/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA<	1986 days? 121 days 238 days 138 days 1188 days 459 days 0 days 98 days 24 days 40 days 22 days 374 days? 24 days 40 days 24 days 24 days 24 days 24 days 24 days 15 days 24 days 16 days 17 days 16 days 17 days 16 days 17 days 16 days 17 days 16 days 17 days 17 days 16 days 17 days 16 days 17 days 17 days 16 days 17 days 17 days 17 days 17 days 17 days 16 days 16 days 16 days 17 days 16 days 17 days 16 days 16 days 17 days 16 days 16 days 17 days 16 days 16 days 16 days 16 days 16 days 16 days 17 days 16	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Zhu 31/3/20 Sat 18/4/20	Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Wed 8/4/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Tue 17/3/20           Fri 24/4/20           Sat 18/4/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Zhu 19/11/20 Zhu 19/11/20 Zhu 19/11/20 Mon 19/11/20 Zhu 19/12/20 Zhu 19/12/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223S,140           Sat 18/1/20 174           Wed 8/4/20 223           Sat 17/720           Wed 17/6/20 227           Sat 11/7/20 228FS-1 day           NA           Wed 16/12/20           Tue 17/3/20 231           Tue 17/3/20 233           Fri 24/40/20233           Sat 18/4/20 233	2245S,226 242,261 227 228 229FS-1 day 232 233 240,234,235 240	1108 days?           0 days           0 days           0 days           59 days           36 days           0 days	32%           100%           100%           47%           59%           100%		-     		
CH000         CH000           CAP-0000         CAP-0000           CAP-0000         CAP-0000           CAP-0000         CAP-0000           CAP-0000         CAP-0000           CIW-1000         CAP-0000           CIW-1000         CAP-0000           CIW-1000         CAP-0000           CIW-1200         CAP-0000           CIW-1200         CAP-0000           CIW-1300         CAP-0000           CIW-1400         CAP-0000           CIW-1405         CAP-1400           CIW-1420         CAP-1420           CIW-1422         CAP-1422           CIW-1423         CIW-1423	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intet Works No. 1, B-2 Diversion Works (1. Intel Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenity existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodorization Unit for the Existing Intel Works Construction of concrete plinth Installation of Decodroizer Testing & commissioning Demolishment of the existing carbon decodrization unit Diversion of Intel Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Intel Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted DN250 studge pipe Diversion of uncharted 2* water pipe Additional Underground Utility Scanning for existing studge pipe HV Cable Diversion for Intel Works	008 41 02 32 84	1957 day           199 days           193 days           193 days           193 days           184 days           184 days           12 days           24 days           0 days           0 days           0 days           0 days           0 days           0 days           146 days           146 days           1           0 days           146 days           1           0 days           1           0 days           1           0 days           1           0 days           2           1           0 days           2           1           0 days           2           1           0 days           2           1           1           1           1           1           1           1           1           1           1           1           1	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA	1986 days?           121 days           238 days           1318 days           459 days           0 days           0 days           98 days           24 days           40 days           20 days           20 days           374 days?           24 days           24 days           34 days?           24 days           1 days?           9 days           1 day           135 days	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 10/10/20	Fri 25/425           Tue 17/3/20           Wed 30/920           Tue 28/11/23           Wed 16/621           Sat 18/1/20           Tue 10/3/20           Sat 11/7/20           Wed 8/4/20           Sat 11/7/20           Wed 16/12/20           Wed 16/12/20           Tue 17/3/20           Tue 17/3/20           Tue 17/3/20           Tue 17/3/20           Wed 16/12/20           Tue 17/3/20           Wed 16/12/20           Wed 24/3/21	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Thu 22/6/11/9 Thu 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Wed 11/3/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Sat 11/4/20 Sat 10/10/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,2235,140           Sat 18/1/20 223           Sat 18/1/20 223           Sat 18/1/20 223           Wed 8/4/20 223           Sat 30/5/20 226           Wed 16/12/20           Tue 16/12/20           Tue 17/3/20 231           Thu 7/5/20 232           Fin 24/4/20 233           Sat 18/4/20 233           Wed 24/3/21	224SS,226 242,261 227 228 229FS-1 day 232 233 240,234,235	1108 days?           0 days           0 days           0 days           59 days           36 days           0 days	32%           100%           100%           47%           59%           100%		-     		
C-1000         C-1000           GPW-1000         I           I         CAR-0000         I           I         CAR-0000         I           I         CAR-0000         I           I         CAR-0000         I           I         CW-1000         I           22         CIW-100         I           23         CIW-100         I           24         CIW-1200         I           25         CW-1300         I           26         CIW-1320         I           27         CIW-1320         I           28         CIW-1300         I           29         CIW-1320         I           30         CIW-1405         I           31         CIW-1405         I           32         CIW-1421         I           35         CIW-1422         I           36         CIW-1423         I           37         CIW-1423a         I	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodorization Unit for the Existing Inlet Works Construction of concrete plinth Installation of Decodorizer Testing & commissioning Demolishment of the existing carbon decodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted Studge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted DN250 sludge pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Intel Works	008 41 02 32 84 5 23	1957 day           199 days           193 days           183 days           184 days           12 days           24 days           0 days           146 days           0 days           1 40 days           1 0 days           1 0 days           2 0 days           3 0 days           4 0 days           0 days	ys         Mon 18/11/19           5         Mon 18/11/19           5         Mon 20/1/20           6         Mon 6/1/20           5         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA	1986 days?           121 days           238 days           131 days           459 days           0 days           0 days           98 days           24 days           24 days           20 days           24 days           24 days           20 days           27 days           24 days           15 days           24 days           14 days           24 days           24 days           24 days           13 days           24 days           14 days           13 days           28 days           1 day           135 days           286 days?	Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Tue 26/11/19 Tue 26/11/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Sat 18/4/20 Sat 18/4/20	Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 117/20           Sat 117/20           Sat 117/20           Sat 117/20           Sat 117/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Tue 17/3/20           Sat 18/4/20           Sat 18/4/20           Sat 18/4/20           Sat 18/4/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Thu 26/11/19 Thu 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 10/10/20 Sat 10/10/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223S,140           Sat 18/1/20 174,223S,140           Sat 17/7/20           Wed 8/4/20 223           Sat 17/7/20 228FS-1 day           NA           NA           Wed 16/12/20           Tue 17/3/20 231           Tue 17/3/20 231           Tue 17/3/20 233           Sat 18/4/20 233           Sat 18/4/20 233           Wed 24/3/21           Wed 24/3/21 236	224\$\$,226 242,261 227 228 229F\$-1 day 229F\$-1 day 233 240,234,235 240 319,237	1108 days?           0 days           0 days           0 days           0 days           59 days           0 days	32%           100%           100%           47%           59%           100%		-     		
CH000         CH000           CAR-0000         -           CAR-0000         -           CAR-0000         -           I         CAR-0000           I         CIW-1000           I         CIW-1200           I         CIW-1300           I         CIW-1300           I         CIW-1300           I         CIW-1340           I         CIW-1400           I         CIW-1400           I         CIW-1400           I         CIW-1420           I         CIW-1421           I         CIW-1423           I         CIW-1423a           I         CIW-1424	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Inlet Works No.1, B-2 Diversion Works (1. Inlet Trunk Sever, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pip to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing anton works Construction of concrete plinth Installation of Decodorizer Testing & commissioning Demolishment of the existing carbon decodrization unit Diversion of Inlet Trunk Sever (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted 22 water pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1	008 41 02 32 84 5 23 81 81	1957 day           109 days           193 days           854 days           854 days           12 days           12 days           12 days           0 days           0 days           0 days           0 days           0 days           146 days           10 days           11 0 days           11 0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA	1986 days?           121 days           238 days           131 days           238 days           1180 days           459 days           0 days           0 days           98 days           24 days           20 days           20 days           20 days           215 days           20 days           27 days           9 days           1 days           22 days           24 days           24 days           26 days           26 days           26 days           26 days           26 days           26 days           1 day           286 days?           102 days	Mon 18/11/19 Mon 18/11/19 Thu 12/11/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Uru 31/3/20 Wed 15/4/20 Sat 10/10/20 Mon 4/5/20	Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 11/7/20           Wed 10/6/20           Sat 11/7/20           Sat 12/5/20           Wed 16/12/20           Tue 17/3/20           Fri 24/4/20           Sat 18/4/20           Wed 24/3/21           Wed 24/3/21	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 13/4/20 Sat 13/4/20 Mon 4/5/20 Mon 28/9/20	NA           Tue 17/3/20           Wed 30/9/20,4,172           NA           NA 194,139           Sat 18/1/20           Sat 18/1/20           Wed 18/4/20           Sat 11/7/20           Wed 8/4/20           Wed 17/6/20/227           Sat 11/7/20           Wed 16/12/20           Tue 17/3/20 (231           Tue 17/3/20 (231           Tue 17/3/20 (231           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           NA	2245S,226 242,261 227 228 229FS-1 day 232 233 240,234,235 240	1108 days?           0 days           0 days           0 days           59 days           0 days	32%           100%           100%           47%           59%           100%		-     		
C-1000         C-1000           CPW-1000         I           CAP-0000         I           CIW-1000         I           CIW-100         I           CIW-1200         I           CIW-1300         I           CIW-1300         I           CIW-1300         I           CIW-1300         I           CIW-1405         I           CIW-1405         I           CIW-1420         I           CIW-1421         I           CIW-1423         I           CIW-1423         I           CIW-1423         I           CIW-1424         I           CIW-1425         I           CIW-1424         I           CIW-1425         I	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Inlet Works Construction of concrete plinth Installation of Decodrizer Testing & commissioning Demolishment of the existing carbon decodrization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted Studge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted DN250 sludge pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion of Existing Cables near Inlet Work No. 1 Diversion of Existing Sludge Rileng Main and Sewerage System Demotion of Existing Sludge Pine Facilities Detwersion Diversion of Existing Sludge Pine Facilities Detwersion of Existing Sludge Pine Diversion of Existing Sludge Pine Facilities Detwersion of Existing Sludge Pine Pipersion of Existing Sludge Pine Pacilities Detwersion of Existing Sludge Pine Pipersion of Existing Sludge Pine Pacilities Detwersion of Existing Sludge Pine Pipersion of Existing Sludge Pine Pacilities Detwersion of Existing Sludge Pine Pipersion of Existing Sludge Pine Pacilities Detwersion Pinery Sludge Pine Pieles Primary Sludge Thckeners and Primary Sludge Punp Pit	008 41 02 32 8 8 8 8 8 8 8 8 8 8 10 02	1957 day           199 days           193 days           193 days           184 days           180 days           12 days           24 days           0 days           1 0 days           2 0 days           4 0 days           1 0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           NA         NA           NA         NA <t< td=""><td>Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA</td><td>1986 days?           121 days           238 days           131 days           439 days           0 days           0 days           98 days           24 days           40 days           224 days           24 days           25 days           1 days           1 days           1 days           1 day</td><td>Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Thu 26/11/19 The 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 18/4/20 Sat 18/4/20 Sa</td><td>Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Wed 8/4/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Tue 17/3/20           Fri 24/4/20           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 28/8/20</td><td>Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Fri 13/12/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 10/10/20 Mon 4/5/20 Mon 28/9/20 Fri 28/8/20</td><td>NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223S,140           Sat 11/7/20           Wed 8/4/20 223           Sat 17/7/20           Wed 17/6/20 227           Sat 11/7/20 228FS-1 day           NA           Wed 16/12/20           Tue 17/3/20 231           Tu 7/5/20/233           Fri 24/4/20 223           Sat 18/4/20 123           Sat 18/1/20           Sat 18/1/20           NA           Fri 24/4/20 23           Sat 18/4/20 123           NA           Fri 24/4/20 233           Sat 18/4/20 233           Wed 24/3/21           Xed 24/3/21</td><td>224SS,226 242,261 227 228 229FS-1 day 232 233 240,234,235 240 319,237 318,319,272,288,289</td><td>1108 days?           0 days           0 days           0 days           0 days           59 days           0 days           47 days           0 days</td><td>32%           100%           100%           47%           59%           100%</td><td></td><td>-      </td><td></td><td></td></t<>	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA	1986 days?           121 days           238 days           131 days           439 days           0 days           0 days           98 days           24 days           40 days           224 days           24 days           25 days           1 days           1 days           1 days           1 day	Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Thu 26/11/19 The 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 18/4/20 Sat 18/4/20 Sa	Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Wed 8/4/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Tue 17/3/20           Fri 24/4/20           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 28/8/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Fri 13/12/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 10/10/20 Mon 4/5/20 Mon 28/9/20 Fri 28/8/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223S,140           Sat 11/7/20           Wed 8/4/20 223           Sat 17/7/20           Wed 17/6/20 227           Sat 11/7/20 228FS-1 day           NA           Wed 16/12/20           Tue 17/3/20 231           Tu 7/5/20/233           Fri 24/4/20 223           Sat 18/4/20 123           Sat 18/1/20           Sat 18/1/20           NA           Fri 24/4/20 23           Sat 18/4/20 123           NA           Fri 24/4/20 233           Sat 18/4/20 233           Wed 24/3/21           Xed 24/3/21	224SS,226 242,261 227 228 229FS-1 day 232 233 240,234,235 240 319,237 318,319,272,288,289	1108 days?           0 days           0 days           0 days           0 days           59 days           0 days           47 days           0 days	32%           100%           100%           47%           59%           100%		-     		
CIUDO         CHOOD           CAP-0000         -           CAP-1340         -           CAP-1423         -           CAP-1424         -           CAP-1425         -           CAP-14230         -	Construction Works (Working day) Preliminary Works Access Road (RS), 8-1 Inlet Works No.1, 8-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenly existing UU arrangement Trial pip to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Inlet Works Construction of concrete plinth Installation of Decodorizer Testing & commissioning Demolishment of the existing carbon decdorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Intilad Survey arrangement with MTRCL Remedial Works for uncharted sludge pipe Diversion of uncharted 22 water pipe Additional Underground Utility Scanning for existing sludge pipe HV Cale Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Intel Work No. 1 Diversion of Decodorization System and Facilities between Existing Primary Sludge PlucePrimary Sludge Pupe Pipe Perime Carbon Decodorization of Existing Sludge Pupe Perime Primary Sludge Pupe Pine Primary Sludge Pupe Pine Primary Sludge Pupe Pine Pine Pine Pine Pine Pine Pine Pin	008 41 002 32 8 8 22 8 8 8 8 8 9 00 00 00 00 00	1957 day           199 days           193 days           180 days           12 days           0 days           0 days           0 days           0 days           146 days           1 0 days           1 0 days           1 0 days           2 4 days           0 days           1 0 days           1 0 days           2 0 days           2 0 days           3 0 days           1 0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 18/11/19           Mon 18/11/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Na           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/1/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA	1986 days?           121 days           236 days           188 days           459 days           0 days           0 days           98 days           24 days           24 days           40 days           24 days           24 days           374 days?           24 days           374 days?           24 days           10 days           28 days?           10 days           26 days           10 days           28 days?           10 days           10 days           10 days           102 days           102 days           102 days           20 days	Mon 18/11/19 Mon 18/11/19 Thu 12/11/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Wed 15/4/20 Sat 10/10/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Fri 28/3/20 Fri 28/3/20 Fri 28/3/20	Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Satt 18/1/20           Tue 10/0/20           Satt 18/1/20           Satt 11/7/20           Wed 10/6/20           Satt 11/7/20           Satt 12/6/21           Wed 16/12/20           Tue 17/3/20           Satt 18/4/20           Satt 18/4/20           Wed 24/3/21           Wed 24/3/21           Satt 30/1/21           Fri 24/4/20           Satt 30/1/21	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 10/10/20 Mon 4/5/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20	NA           Tue 17/3/20           Wed 30/9/20,4,172           NA           NA 194,139           Sat 18/1/20           Sat 18/1/20           Val           Sat 18/1/20           Wed 8/4/20           Sat 11/7/20           Wed 8/4/20           Sat 11/7/20           Wed 17/6/20/227           Sat 11/7/20/228/5-1 day           NA           Wed 16/12/20           Tue 17/3/20/231           Tue 17/3/20/233           Sat 18/4/20/233           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Tue 19/5/20           Xa           Fri 28/8/20           Tue 19/5/20	224SS,226 242,261 227 228 229FS-1 day 229FS-1 day 223 240,234,235 240,234,235 240 319,237 318,319,272,288,289 318,319,272,288,289	1108 days?           0 days           0 days           59 days           36 days           0 days	32%           100%           100%           47%           59%           100%		-     		
5         C-1000	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Inlet Works Construction of concrete plinth Installation of Decodrizer Testing & commissioning Demolishment of the existing carbon decodrization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted Studge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted DN250 sludge pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion of Existing Cables near Inlet Work No. 1 Diversion of Existing Sludge Rileng Main and Sewerage System Demotion of Existing Sludge Pine Facilities Detwersion Diversion of Existing Sludge Pine Facilities Detwersion of Existing Sludge Pine Diversion of Existing Sludge Pine Facilities Detwersion of Existing Sludge Pine Pipersion of Existing Sludge Pine Pacilities Detwersion of Existing Sludge Pine Pipersion of Existing Sludge Pine Pacilities Detwersion of Existing Sludge Pine Pipersion of Existing Sludge Pine Pacilities Detwersion of Existing Sludge Pine Pipersion of Existing Sludge Pine Pacilities Detwersion Pinery Sludge Pine Pieles Primary Sludge Thckeners and Primary Sludge Punp Pit	008 41 02 32 8 8 8 8 8 8 8 8 8 8 10 02	1957 day           199 days           193 days           180 days           12 days           0 days           0 days           0 days           0 days           146 days           1 0 days           1 0 days           1 0 days           2 4 days           0 days           1 0 days           1 0 days           2 0 days           2 0 days           3 0 days           1 0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           NA         NA           NA         NA <t< td=""><td>Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA</td><td>1986 days?           121 days           238 days           131 days           439 days           0 days           0 days           98 days           24 days           40 days           224 days           24 days           25 days           1 days           1 days           1 days           1 day</td><td>Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Thu 26/11/19 The 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 18/4/20 Sat 18/4/20 Sa</td><td>Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Wed 8/4/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Tue 17/3/20           Fri 24/4/20           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 28/8/20</td><td>Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Fri 13/12/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 10/10/20 Mon 4/5/20 Mon 28/9/20 Fri 28/8/20</td><td>NA           Tue 17/3/20           Wed 30/9/20,4,172           NA           NA 194,139           Sat 18/1/20           Sat 18/1/20           Val           Sat 18/1/20           Wed 8/4/20           Sat 11/7/20           Wed 8/4/20           Sat 11/7/20           Wed 17/6/20/227           Sat 11/7/20/228/5-1 day           NA           Wed 16/12/20           Tue 17/3/20/231           Tue 17/3/20/233           Sat 18/4/20/233           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Tue 19/5/20           Xa           Fri 28/8/20           Tue 19/5/20</td><td>224SS,226 242,261 227 228 229FS-1 day 232 233 240,234,235 240 319,237 318,319,272,288,289</td><td>1108 days? 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          0 days           0 days           0 days           0 days           59 days           0 days           47 days           0 days	32%           100%           100%           47%           59%           100%		-     		
C-1000         C-1000           CPU-1000         C           CAR-0000         C           CAR-0000         C           CW-1000         C           CW-1200         C           CW-1310         C           CW-1320         C           CW-1340         C           CW-1400         C           CW-1400         C           CW-1422         C           CW-1423         C           CW-1425         C           CW-1430         C           CW-1440         C           CW-1440         C	Construction Works (Working day) Preliminary Works Access Road (RS), B-1 Inlet Works No.1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pip to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Inlet Works Construction of concrete plinth Installation of Decodorizer Testing & commissioning Demolishment of the existing carbon decodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted 2 water pipe Additional Underground Utility Scanning for existing aludge pipe HV Cable Diversion for INEt Works Exposing, Removal and Diversion of Existing Cables near Inlet Work No. 1 Diversion of Decodorization System and Facilities between Existing Primary Sludge Pitcheners and Primary Sludge Putcheners Removal of concrete surround and uncharted sludge pipe Remedial works for uncharted sludge Pipe Remedial works for uncharted sludge Pipe Beakage Diversion of Incharter 2 water pipe	008 41 008 23 34 8 01 021 27	1957 day           199 days           199 days           193 days           854 days           180 days           12 days           24 days           0 days           0 days           0 days           0 days           0 days           0 days           146 days           0 days           1 0 days           1 0 days           24 0 days           2 0 days           1 0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 18/11/19           Mon 18/11/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Na           NA         NA	Thu 27/3/25           Thu 5/3/20           Sat 12/1/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA	1986 days?           121 days           236 days           138 days           459 days           0 days           0 days           98 days           24 days           40 days           98 days           24 days           40 days           24 days           27 days           24 days           16 days           24 days           24 days           374 days?           24 days           16 days           26 days           16 days           27 days           9 days           1 day           288 days?           102 days           1 day           20 days           102 days           10 days           286 days?	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CH000         CH000           CW-1000         CM-100           CAR-0000         CM-100           CW-1000         CM-100           CW-1000         CM-100           CW-1000         CM-100           CW-1000         CM-100           CW-1000         CM-100           CW-1000         CM-100           CW-1310         CM-1320           CW-1320         CM-1320           CW-1340         CM-1320           CW-1400         CW-1400           CW-1400         CW-1420           CW-1423         CW-1423           CW-1424         CW-1424           CW-1425         CW-1424           CW-1424         CW-1424           CW-1425         CW-1440           CW-1440         CW-1440	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenity existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Inlet Works Construction of concrete plinth Installation of Decodrizer Testing & commissioning Demolishment of the existing carbon decodrization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted DN250 sludge pipe HV Cable Diversion for Intel Works Ecopoing, Removal and Diversion of Existing Cables near Inlet Work No. 1 Diversion of Existing Sludge Rising Main and Sewerage System Demoval for for Same Facilities between Existing Primary Sludge Tuckeners and Primary Sludge Pipe Remedial works for uncharted pipe and unforeseen existing Primary Sludge Tuckeners and Primary Sludge Pipe Remedial works for uncharted pipe and unforeseen water seepage	008 41 002 32 8 8 22 8 8 8 8 8 9 00 00 00 00 00	1957 day           199 days           199 days           193 days           854 days           180 days           12 days           24 days           0 days           0 days           0 days           0 days           0 days           0 days           146 days           0 days           1 0 days           1 0 days           24 0 days           2 0 days           1 0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           NA         NA           NA         NA <td>Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA</td> <td>1986 days?           121 days           238 days           131 days           459 days           0 days           0 days           96 days           24 days           15 days           24 days           14 days?           24 days           1 day           1 day           1 day           1 day           1 day           1 day           20 days           1 0 days</td> <td>Mon 18/11/19 Mon 18/11/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/8/20 Fri 28/8/20 Fri 24/4/20 Fri 8/5/20</td> <td>Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Tue 17/3/20           Tue 17/3/20           Fri 24/4/20           Sat 30/1/21           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20</td> <td>Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Thu 22/11/19 Thu 22/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 10/10/20 Sat 10/10/20 Mon 28/9/20 Fri 28/8/20 Fri 28/20 Fri 25/20</td> <td>NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,22355,140           Sat 11/7/20           Wed 8/4/20 223           Sat 30/5/20 226           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20 2265-1 day           NA           Wed 16/12/20           Tue 10/3/20 231           Tue 17/3/20 231           Tue 17/3/20 233           Sat 18/4/20 233           Wed 24/3/21           Wed 24/3/21           NA           Fri 24/4/20 233           Tue 19/5/20 233,234           Tue 19/5/20 240           NA           Fri 29/8/20           NA           Fri 29/8/20           NA           Fri 29/8/20           NA           Fri 29/8/20           Tue 19/5/20 233,234           Tue 19/5/20 240</td> <td>224SS,226 242,261 227 228 229FS-1 day 229FS-1 day 223 240,234,235 240,234,235 240 319,237 318,319,272,288,289 318,319,272,288,289</td> <td>1108 days? 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C-1000         C-1000           CPU-1000         C           CAR-0000         C           CAR-0000         C           CAR-0000         C           CW-1000         C           CW-1000         C           CW-1000         C           CW-1000         C           CW-1000         C           CW-1200         C           CW-1310         C           CW-1310         C           CW-1310         C           CW-1310         C           CW-1400         C           CW-1400         C           CW-1400         C           CW-1422         C           CW-1423         C           CW-1424         C           CW-1430         C           CW-1440         C           CW-1450         C           CW-1450         C	Construction Works (Working day) Preliminary Works Access Road (RS), B-1 Inlet Works No.1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Intel Works Construction of concrete plinth Installation of Decodorizer Testing & commissioning Demolishment of the existing carbon decodorization unit Diversion of Intel Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Intel Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted Sludge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted DN250 sludge pipe HV Cable Diversion for Intel Works Exposing, Removal and Diversion of Existing Cables near Intel Work No.1 Diversion of Existing Sludge Rising Main and Sewerage System Demolition of Decodorizers and Primary Sludge Pipe Remedial Works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe HV Cable Diversion of Intel Works Exposing, Removal and Diversion of Existing Cables near Intel Work No.1 Removal of concretes surround and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for uncharted pipe and uncharted sludge pipe Remedial works for u	008 41 007 33 34 44 5 22 01 01 02 021 27 045 02	1957 day           199 days           193 days           854 days           180 days           12 days           12 days           0 days           0 days           0 days           0 days           0 days           0 days           146 days           0 days           10 days           110 days           120 days           0 days           10 days           110 days           24 days           0 days           10 days           110 days           110 days           110 days           1110 days           1111 days           111 days           111 days           111 days           111 days           111 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 18/11/20           Mon 20/12/0         Mon 6/1/20           Jon 6/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA      <	Thu 27/3/25           Thu 5/3/20           Sat 12/1/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA	1986 days?           121 days           232 days           138 days           188 days           459 days           0 days           0 days           98 days           24 days           40 days           98 days           24 days           40 days           24 days           20 days           24 days           24 days           20 days           24 days           20 days           1 day           135 days           268 days?           102 days           1 day           20 days           1 day           20 days           1 day           20 days           1 days           262 days           80 days           20 days           20 days           10 days           262 days           80 days	Mon 18/11/19 Mon 18/11/19 Tue 28/11/19 Tue 28/11/19 Tue 28/11/19 Tue 28/11/19 Tue 28/11/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 16/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Ket 15/3/20 Wed 15/3/20 Wed 15/3/20 Wed 15/3/20 Wed 15/3/20 Wed 11/3/20 Wed	Fri 25/425           Tue 17/3/20           Wed 30/3/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Sat 11/7/20           Sat 10/5/20           Wed 17/6/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Sat 12/6/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 26/1/21           Thu 18/6/20           Wed 24/3/21	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 28/9/20 Fri 28/9/20 Fri 28/9/20 Fri 28/9/20 Fri 28/9/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223SS,140           Sat 11/7/20           Wed 8/4/20 223           Sat 30/5/20 226           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20 2265-1 day           NA           Wed 16/12/20           Tue 17/3/20 231           Tue 17/3/20 231           Tue 17/3/20 233           Wed 16/12/20           Yeed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Tue 19/5/20 233,234           Tue 19/5/20 240           NA           Fri 28/8/20           Tue 19/5/20 240           NA           Wed 24/3/21           Wed 11/1/20 241           Tue 19/5/20 242	2245S, 226 242,261 227 228 229FS-1 day 229FS-1 day 233 240,234,235 240 319,237 318,319,272,288,289 318,319,272,288,289 241 242,243 244 244 244	1108 days? 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C-1000         C-1000           CPV-1000         C           CAR-0000         C           CAR-0000         C           CAR-0000         C           CW-1000         C           CW-1000         C           CW-1000         C           CW-1000         C           CW-1000         C           CW-1200         C           CW-1310         C           CW-1310         C           CW-1310         C           CW-1310         C           CW-1400         C           CW-1400         C           CW-1400         C           CW-1422         C           CW-1423         C           CW-1424         C           CW-1430         C           CW-1440         C           CW-1450         C           CW-1450         C	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Intel Works No. 1, B-2 Diversion Works (1. Intel Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodorization Unit for the Existing Intel Works Construction of concrete plinth Installation of Decoderizent Testing & commissioning Demolishment of the existing carbon decodorization unit Diversion of Intel Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Intel Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted studge Pipe leakage Diversion of uncharted DN250 studge pipe Diversion of uncharted DN250 studge pipe Additional Underground Utility Scanning for existing studge pipe HV Cable Diversion for Intel Works Exposing, Removal and Diversion of Existing Cables near Intel Work No. 1 Diversion of Existing Studge Rising Main and Severage System Demoval of concrete surround and uncharted sludge pipe Remedial works for uncharted pipe and unforeseen existing Primary Studge Thickeners and Primary Studge Pipe Remedial works for uncharted pipe and unforeseen water seepage Remedial works for uncharted pipe and unforeseen water seepage Primary Studge Thickeners and Primary Studge Pipe Remedial works for uncharted pipe and unforeseen water seepage Trench Excevation for 1800mm dia pipeline and manholes Sheepile installation (on held due to identification of uncharted Sheepile installation (on held due to identification of uncharted Sheepile installation (on held due to identification of uncharted Sheepile installation (on held due to identification of uncharted Sheepile installation (on held due to identification of uncharted Sheepile installation (on held due to identification of uncharted Sheepile installation (on held due to identification of uncharted Sheepile installation (o	008 41 008 23 34 8 01 021 27	1957 day           199 days           193 days           854 days           180 days           12 days           12 days           0 days           0 days           0 days           0 days           0 days           0 days           146 days           0 days           10 days           110 days           120 days           0 days           10 days           110 days           24 days           0 days           10 days           110 days           110 days           110 days           1110 days           1111 days           111 days           111 days           111 days           111 days           111 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           NA         NA           NA         NA <td>Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA</td> <td>1986 days?           121 days           238 days           131 days           459 days           0 days           0 days           98 days           24 days           40 days           224 days           24 days           374 days?           24 days           374 days?           24 days           15 days           24 days           374 days?           24 days           1 days           1 days           1 days           102 days           102 days           20 days           10 days           10 days           20 days           10 days           20 days           10 days           20 days           80 days</td> <td>Mon 18/11/19 Mon 18/11/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 9/4/20 Sat 10/10/20 Mon 4/5/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20</td> <td>Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Tue 17/3/20           Fri 24/4/20           Sat 30/1/21           Fri 24/4/20           Sat 30/1/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 19/5/20           Tue 26/1/21           Tue 26/1/21</td> <td>Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Fri 13/12/19 Tue 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 10/10/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20 Fri 28/12/20 Fri 2</td> <td>NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223SS,140           Sat 11/7/20           Wed 8/4/20 223           Sat 30/5/20 226           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20 2265-1 day           NA           Wed 16/12/20           Tue 17/3/20 231           Tue 17/3/20 231           Tue 17/3/20 233           Wed 16/12/20           Yeed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Tue 19/5/20 233,234           Tue 19/5/20 240           NA           Fri 28/8/20           Tue 19/5/20 240           NA           Wed 24/3/21           Wed 11/1/20 241           Tue 19/5/20 242</td> <td>224SS,226 242,261 227 228 229FS-1 day 228 229 233 240,234,235 240 319,237 318,319,272,288,289 241 241 242,243 244</td> <td>1108 days? 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          0 days           0 days           0 days           59 days           26 days           0 days	32%           100%           100%           47%           59%           100% <td></td> <td>-      </td> <td></td> <td></td>		-     		
CH000         CH000           CPV-1000         I           CAP-0000         I           CIW-1000         I           CIW-1100         I           CIW-1200         I           CIW-1300         I           CIW-1320         I           CIW-1320         I           CIW-1405         I           CIW-1405         I           CIW-1405         I           CIW-1405         I           CIW-1420         I           CIW-1423         I           CIW-1423         I           CIW-1423         I           CIW-1423         I           CIW-1424         I           CIW-1425         I           CIW-1424         I           CIW-1425         I           CIW-1430         I           CIW-1430         I           CIW-1450a         I           CIW-1450a <tdi< td=""></tdi<>	Construction Works (Working day) Preliminary Works Access Road (AR3), B-1 Inlet Works No. 1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Intel Works Construction of concrete plinth Installation of Docodreizer Testing & commissioning Demolishment of the existing carbon decodrization unit Diversion of Intel Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted Sludge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted DN250 sludge pipe HV Cable Divension for IntelWorks Exposing, Removal and Diversion of Existing Cables near Intel Work No. 1 Diversion of Existing Sludge Rising Main and Sowerage System Demolibion of Decodrization System and Facilities between Existing Primary Sludge Thickness and Primary Sludge pipe Remedial works for uncharted Driversion devise prime Primary Sludge Primp Pri Removal of concrete surround and uncharted sludge pipe HV Cable Diversion of LinetWorks Exposing, Removal and Diversion of Existing Cables near Intel Work No. 1 Diversion of Existing Sludge Rising Main and Sowerage System Demolibion of Decodrization System and Facilities between Existing Primary Sludge Thickness and Primary Sludge pipe Remedial works for uncharted Diversion for Intel Works Sheetpile installation (on hold due to identification of uncharted otestruction) Trench Excevation for 1800mm dia pipeline and manholes Sheetpile installation (on hold due to identification of uncharted dostruction) Trench Excevation for 1800mm dia pipeline and manholes Removal of existing DSD drawpits near IRC & exposure of CLP	008 41 007 33 34 44 5 22 01 01 02 021 27 045 02	1957 day           199 days           193 days           854 days           180 days           12 days           12 days           0 days           0 days           0 days           0 days           0 days           0 days           146 days           0 days           10 days           110 days           120 days           0 days           10 days           110 days           24 days           0 days           10 days           110 days           110 days           110 days           1110 days           1111 days           111 days           111 days           111 days           111 days           111 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 18/11/20           Mon 20/12/0         Mon 6/1/20           Jon 6/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA      <	Thu 27/3/25           Thu 5/3/20           Sat 12/1/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA	1986 days?           121 days           232 days           138 days           188 days           459 days           0 days           0 days           98 days           24 days           40 days           98 days           24 days           40 days           24 days           20 days           24 days           24 days           20 days           24 days           20 days           1 day           135 days           268 days?           102 days           1 day           20 days           1 day           20 days           1 day           20 days           1 days           262 days           80 days           20 days           20 days           10 days           262 days           80 days	Mon 18/11/19 Mon 18/11/19 Tue 28/11/19 Tue 28/11/19 Tue 28/11/19 Tue 28/11/19 Tue 28/11/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 16/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Ket 15/3/20 Wed 15/3/20 Wed 15/3/20 Wed 15/3/20 Wed 15/3/20 Wed 11/3/20 Wed	Fri 25/425           Tue 17/3/20           Wed 30/3/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Sat 11/7/20           Sat 10/5/20           Wed 17/6/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Sat 12/6/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 26/1/21           Thu 18/6/20           Wed 24/3/21	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 28/9/20 Fri 28/9/20 Fri 28/9/20 Fri 28/9/20 Thu 13/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223S,140           Sat 18/1/20 174           Wed 8/4/20 223           Sat 17/720           Wed 8/4/20 223           Sat 17/720           Wed 17/6/20 227           Sat 11/7/20 (28FS-1 day)           NA           Wed 16/12/20           Tue 17/3/20 231           Th 24/4/20 233           Sat 18/4/20 233           Wed 24/3/21           Wed 24/3/21           NA           Fri 24/4/20 233           Viet 24/3/21           NA           Fri 28/8/20           NA           Sat 18/4/20           NA           Fri 28/8/20           NA           Fri 28/8/20           NA           Sat 18/4/20	2245S, 226 242,261 227 228 229FS-1 day 229FS-1 day 233 240,234,235 240 319,237 318,319,272,288,289 318,319,272,288,289 241 242,243 244 244 244	1108 days? 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CH000         CH000           CAP-000         -           CW-100         -           CW-1200         -           CW-1200         -           CW-1300         -           CW-1310         -           CW-1320         -           CW-1340         -           CW-1400         -           CW-1400         -           CW-1400         -           CW-1420         -           CW-1422         -           CW-1423         -           CW-1423         -           CW-1424         -           CW-1425         -           CW-1425         -           CW-1425         -	Construction Works (Working day)           Preliminary Works           Access Road (RS), B-1           Inlet Works No.1, B-2           Diversion Works (1.1 niet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners)           Utilities scanning to idenify existing UU arrangement           Trial pits to locate the collection points           Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Intel Works           Construction of concrete plinth           Installation and Deodorizer           Testing & commissioning           Demonissioning of temporary Activated Carbon pipe, 4 deep manholes and Intel Reception Chamber)           Joint Initial Survey arrangement with MTRCL           Remedial Works for uncharted sludge Pipe leakage           Diversion of uncharted DN250 sludge pipe           Diversion of uncharted DN250 sludge pipe           HV Cable Diversion for Intel Works           Koltonal Underground Utility Scanning for existing sludge pipe           HV Cable Diversion for Intel Works           No.1           Diversion of Existing Sludge Rising Main and Severage System           Demolition of Deodorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pipe           Removal of concrete surround and uncharded sludge pipe           Removal of concrete surround and u	008 41 007 33 8 22 8 2 8	1957 day           199 days           193 days           184 days           12 days           180 days           12 days           180 days           0 days           1 0 days           30 0 days           146 days           145 days           28         0 days           45 days           45 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 20/1/20           Mon 20/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         Mon 6/1/20           NA         NA           NA         NA <td>Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 12/9/20           Na           Mon 3/8/20           NA           Sat 28/3/20           NA  </td> <td>1986 days?           121 days           238 days           131 days           459 days           0 days           0 days           24 days           24 days           24 days           24 days           24 days           374 days           24 days           374 days           24 days           374 days           24 days           15 days           24 days           8 days?           12 days           1 day           1 day           1 day           20 days           80 days           22 days           22 days           22 days</td> <td>Mon 18/11/19 Mon 18/11/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 31/3/20 Wed 13/3/20 Mon 4/5/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20</td> <td>Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Fri 24/4/20           Sat 18/4/20           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 26/1/21           Thu 18/6/20           Wed 15/7/20           Tue 18/8/20</td> <td>Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Fri 13/12/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Thu 18/12/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20</td> <td>NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,22355,140           Sat 11/7/20           Wed 8/4/20 223           Sat 10/7/20           Wed 8/4/20 223           Sat 10/7/20           Wed 8/4/20 227           Sat 11/7/20           Wed 10/5/20/227           Sat 11/7/20           Sat 11/7/20 228FS-1 day           NA           Wed 16/12/20           Tue 17/3/20/231           Thu 17/5/20/232           Fri 24/4/20/233           Sat 18/4/20/233           Sat 18/4/20/233           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           NA           Fri 28/8/20           NA           Fri 28/8/20           NA           Wed 15/7/20 243           Tue 18/8/20 244           Wed 15/7/20 243           Tue 18/8/20 244           Fri 14/8/20</td> <td>2245S, 226 242,261 227 228 229FS-1 day 229FS-1 day 233 240,234,235 240 319,237 318,319,272,288,289 318,319,272,288,289 241 242,243 244 244 244</td> <td>1108 days?           0 days           0 days           0 days           59 days           0 days</td> <td>32%           100%           100%           47%           59%           100%</td> <td></td> <td>-      </td> <td></td> <td></td>	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Sat 12/9/20           Fri 14/8/20           Sat 12/9/20           Na           Mon 3/8/20           NA           Sat 28/3/20           NA	1986 days?           121 days           238 days           131 days           459 days           0 days           0 days           24 days           24 days           24 days           24 days           24 days           374 days           24 days           374 days           24 days           374 days           24 days           15 days           24 days           8 days?           12 days           1 day           1 day           1 day           20 days           80 days           22 days           22 days           22 days	Mon 18/11/19 Mon 18/11/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 9/4/20 Mon 9/3/20 Tuu 31/3/20 Wed 13/3/20 Mon 4/5/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20	Fri 25/425           Tue 17/3/20           Wed 30/9/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Fri 24/4/20           Sat 18/4/20           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 26/1/21           Thu 18/6/20           Wed 15/7/20           Tue 18/8/20	Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Fri 13/12/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Thu 18/12/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,22355,140           Sat 11/7/20           Wed 8/4/20 223           Sat 10/7/20           Wed 8/4/20 223           Sat 10/7/20           Wed 8/4/20 227           Sat 11/7/20           Wed 10/5/20/227           Sat 11/7/20           Sat 11/7/20 228FS-1 day           NA           Wed 16/12/20           Tue 17/3/20/231           Thu 17/5/20/232           Fri 24/4/20/233           Sat 18/4/20/233           Sat 18/4/20/233           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           NA           Fri 28/8/20           NA           Fri 28/8/20           NA           Wed 15/7/20 243           Tue 18/8/20 244           Wed 15/7/20 243           Tue 18/8/20 244           Fri 14/8/20	2245S, 226 242,261 227 228 229FS-1 day 229FS-1 day 233 240,234,235 240 319,237 318,319,272,288,289 318,319,272,288,289 241 242,243 244 244 244	1108 days? 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6         C-1000         -           6         CPW-1000         -           1         CAR-0000         -           1         CW-2000         -           2         CIW-1000         -           3         CIW-1100         -           4         CIW-1300         -           5         CIW-1300         -           6         CIW-1310         -           7         CIW-1320         -           8         CIW-1320         -           9         CIW-1320         -           1         CIW-1320         -           2         CIW-1420         -           4         CIW-1400         -           5         CIW-1423         -           6         CIW-1423         -           7         CIW-1423         -           9         CIW-1423         -           1         CIW-1423         -           2         CIW-1423         -           3         CIW-1420         -           4         CIW-1450         -           5         CIW-14500         -           6         CIW-14500	Construction Works (Working day)           Preliminary Works           Access Road (R3), B-1           Inlet Works No.1, B-2           Diversion Works (1.1 niet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)           Utilities scanning to idenify existing UU arrangement           Trial pits to locate the collection points           Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Intel Works           Construction of concrete plinth           Installation of Decodrizer           Testing & commissioning           Demonishment of the existing carbon decodrization unit           Diversion of Intel Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Intel Reception Chamber)           Joint Initial Survey arrangement with MTRCL           Remedial Works for uncharted sludge Pipe leakage           Diversion of uncharted DN250 sludge pipe           Diversion of uncharted DN250 sludge pipe           HV Cable Diversion for Intel Works           Exposing, Removal and Diversion of Existing Cables near Intel Works No.1           Diversion of Decodrization System and Facilities between Existing Primary Sludge Thickners and Primary Sludge Pupu Pit Remedial works for uncharted pipe and unforeseen water seepage           Trench Excavation for 1800mm dia pipeline and manholes           Sheetpiel installation (or hold due to identification of un	008 41 007 33 34 44 5 02 017 02 045 02 040 02 045 02 045 02 045 02 045 02 045 02	1957 day           199 days           193 days           854 days           124 days           24 days           0 days           1 0 days           1 0 days           2 0 days           36 0 days           1 0 days           1 0 days           2 0 days           37 0 days           30 0 days           3146 days           32 0 days           146 days           28 0 days           45 days           28         0 days           1 0 days           145 days           28         0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 18/11/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA <t< td=""><td>Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA           NA           MA           NA           Sat 28/3/20           NA           NA           NA</td><td>1986 days?           121 days           232 days           131 days           459 days           0 days           0 days           98 days           24 days           40 days           98 days           24 days           40 days           24 days           40 days           24 days           24 days           20 days           24 days           24 days           10 days           26 days           102 days           102 days           10 days           206 days           20 days           102 days           102 days           202 days           202 days           202 days           202 days           202 days           22 days</td><td>Mon 18/11/19 Mon 18/11/19 Thu 12/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 8/5/20 Mon 18/13/20 Mon 18/13/20 Fri 8/5/20 Fri 8/5/20 Thu 18/6/20 Thu 18/7/20 Fri 7/8/20</td><td>Fri 25/425           Tue 17/3/20           Wed 30/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 18/1/20           Wed 10/3/20           Sat 11/7/20           Sat 10/5/20           Wed 17/6/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Fri 24/4/20           Sat 18/4/20           Wed 24/3/21           Wed 24/3/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 26/1/21           Thu 18/6/20           Wed 15/7/20           Tue 18/8/20           Fri 14/8/20</td><td>Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Thu 22/12/19 Thu 22/12/19 Thu 22/17/19 Thu 26/11/19 Thu 26/11/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Wed 17/6/20 Wed 17/6/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Thu 18/5/20 Wed 11/3/20 Wed 11/3/20 Thu 18/5/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/7/20 Thu 16/7/20 Fri 7/8/20</td><td>NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223SS,140           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20           Wed 16/12/20           Tue 10/3/20 231           Tue 17/3/20 231           Tue 17/3/20 231           Tue 17/3/20 231           Tue 17/3/20 233           Sat 18/4/20 233           Sat 18/4/20 233           Sat 18/4/20 233           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 19/7/20 240           NA           Fri 28/8/20           Tue 19/5/20 240           NA 224,241           Thu 18/6/20 241           Wed 15/7/20 243           Tue 18/8/20           Tue 18/8/20</td><td>22455,226 242,261 227 228 229FS-1 day 232 233 240,234,235 240 319,237 318,319,272,288,289 241 242,243 241 242,243 244 244 244 245,257 248,253</td><td>1108 days?           0 days           0 days           9 days           59 days           0 days           &lt;</td><td>32%           100%           100%           47%           59%           100%</td><td></td><td>-      </td><td></td><td></td></t<>	Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA           NA           MA           NA           Sat 28/3/20           NA           NA           NA	1986 days?           121 days           232 days           131 days           459 days           0 days           0 days           98 days           24 days           40 days           98 days           24 days           40 days           24 days           40 days           24 days           24 days           20 days           24 days           24 days           10 days           26 days           102 days           102 days           10 days           206 days           20 days           102 days           102 days           202 days           202 days           202 days           202 days           202 days           22 days	Mon 18/11/19 Mon 18/11/19 Thu 12/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 8/5/20 Mon 18/13/20 Mon 18/13/20 Fri 8/5/20 Fri 8/5/20 Thu 18/6/20 Thu 18/7/20 Fri 7/8/20	Fri 25/425           Tue 17/3/20           Wed 30/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 18/1/20           Wed 10/3/20           Sat 11/7/20           Sat 10/5/20           Wed 17/6/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Fri 24/4/20           Sat 18/4/20           Wed 24/3/21           Wed 24/3/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 26/1/21           Thu 18/6/20           Wed 15/7/20           Tue 18/8/20           Fri 14/8/20	Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Thu 22/12/19 Thu 22/12/19 Thu 22/17/19 Thu 26/11/19 Thu 26/11/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Wed 17/6/20 Wed 17/6/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Thu 18/5/20 Wed 11/3/20 Wed 11/3/20 Thu 18/5/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/7/20 Thu 16/7/20 Fri 7/8/20	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223SS,140           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20           Wed 16/12/20           Tue 10/3/20 231           Tue 17/3/20 231           Tue 17/3/20 231           Tue 17/3/20 231           Tue 17/3/20 233           Sat 18/4/20 233           Sat 18/4/20 233           Sat 18/4/20 233           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 19/7/20 240           NA           Fri 28/8/20           Tue 19/5/20 240           NA 224,241           Thu 18/6/20 241           Wed 15/7/20 243           Tue 18/8/20           Tue 18/8/20	22455,226 242,261 227 228 229FS-1 day 232 233 240,234,235 240 319,237 318,319,272,288,289 241 242,243 241 242,243 244 244 244 245,257 248,253	1108 days? 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Inlet Trunk Sever, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)           Utilities scanning to idenity existing UU arrangement Trial pits to locate the collection points           Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Intel Works           Construction of concrete plinth           Installation of Decodrizer           Testing & commissioning           Demolishment of the existing carbon decodrization unit           Diversion of Intel Trunk Sever (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Intel Reception Chamber)           Joint Initial Survey arrangement with MTRCL           Remedial Works for uncharted Sludge Pipe leakage           Diversion of uncharted DN250 sludge pipe           Diversion of uncharted DN250 sludge pipe           Additional Underground Utility Scanning for existing sludge pipe           HV Cable Diversion of Existing Sludge Pump Pt           Removal and Diversion System and Facilities between Existing Primary Sludge Thokeners and Primary Sludge Pump Pt           Removal of concrete surround and uncharted sludge pipe           Removal of concrete surround and manholes           Sheetpile installation (on hidid due to identification of uncharted obstruction)<	008 41 007 32 32 34 34 34 34 34 34 34 34 34 34	1957 day           199 days           193 days           854 days           124 days           24 days           0 days           1 0 days           1 0 days           2 0 days           36 0 days           1 0 days           1 0 days           2 0 days           37 0 days           30 0 days           3146 days           32 0 days           146 days           28 0 days           45 days           28         0 days           1 0 days           145 days           28         0 days	ys         Mon 18/11/19           Mon 18/11/19         Mon 18/11/19           Mon 18/11/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA <td< td=""><td>Thu 27/3/25           Thu 5/3/20           Sat 12/9/20           Mon 21/11/22           Fri 14/8/20           Sat 18/1/20           Wed 5/2/20           NA           NA           NA           MA           NA           Sat 28/3/20           NA           NA           NA</td><td>1986 days?           121 days           232 days           131 days           459 days           0 days           0 days           98 days           24 days           40 days           98 days           24 days           40 days           24 days           40 days           24 days           24 days           20 days           24 days           24 days           10 days           26 days           102 days           102 days           10 days           206 days           20 days           102 days           102 days           202 days           202 days           202 days           202 days           202 days           22 days</td><td>Mon 18/11/19 Mon 18/11/19 Thu 12/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 8/5/20 Mon 18/13/20 Mon 18/13/20 Fri 8/5/20 Fri 8/5/20 Thu 18/6/20 Thu 18/7/20 Fri 7/8/20</td><td>Fri 25/425           Tue 17/3/20           Wed 30/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 18/1/20           Wed 10/6/21           Wed 10/6/20           Sat 11/7/20           Wed 17/6/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Fri 24/4/20           Sat 18/4/20           Wed 24/3/21           Wed 24/3/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 26/1/21           Thu 18/6/20           Wed 15/7/20           Tue 18/8/20           Fri 14/8/20</td><td>Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Thu 22/12/19 Thu 22/12/19 Thu 22/17/19 Thu 26/11/19 Thu 26/11/19 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Wed 17/6/20 Wed 17/6/20 Wed 17/6/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Thu 18/5/20 Wed 11/3/20 Wed 11/3/20 Thu 18/5/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/7/20 Thu 16/7/20 Fri 7/8/20</td><td>NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223SS,140           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20           Wed 16/12/20           Tue 10/3/20 231           Tue 17/3/20 231           Tue 17/3/20 231           Tue 17/3/20 231           Tue 17/3/20 233           Sat 18/4/20 233           Sat 18/4/20 233           Sat 18/4/20 233           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 19/7/20 240           NA           Fri 28/8/20           Tue 19/5/20 240           NA 224,241           Thu 18/6/20 241           Wed 15/7/20 243           Tue 18/8/20           Tue 18/8/20</td><td>22455,226 242,261 227 228 229FS-1 day 232 233 240,234,235 240 319,237 318,319,272,288,289 241 242,243 241 242,243 244 244 244 245,257 248,253</td><td>1108 days? 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Inlet Trunk Sever, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)           Utilities scanning to idenity existing UU arrangement Trial pits to locate the collection points           Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works           Construction of concrete plinth           Installation of Deodorizer           Testing & commissioning           Demolishment of the existing carbon deodorization unit           Diversion of Inlet Trunk Sever (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)           Joint Initial Survey arrangement with MTRCL           Remedial Works for uncharted Sludge Pipe leakage           Diversion of uncharted DV250 sludgo pipe           HV Cable Diversion for Intel Works           Exposing, Removal and Diversion of Existing Cables near Intel Work No. 1           Diversion of Existing Sludge Rising Main and Severage System           Demolision Of Decdorization System and Facilities between Existing Primary Sludge Trickners and Primary Sludge Pump Pt           Removal of concrete surround and Uncharted sludge pipe Remedial works for uncharted Drives and Undreseen water seepage           Trench Excavation for 1800mm dia pipeline and manholes Identification of	008 41 007 32 32 34 34 34 34 34 34 34 34 34 34	1957 day           199 days           199 days           193 days           854 days           12 days           24 days           0 days           0 days           0 days           0 days           0 days           0 days           146 days           0 days           10 days           11 0 days           32         0 days           12 0 days           33         0 days           146 days           24         0 days           30 0 days         146 days           24         0 days           30 0 days         0 days           24 0 days         0 days           30 0 days         0 days           30 0 days         0 days           30 0 days         0 days </td <td>ys         Mon 18/11/19           Mon 18/11/19         Mon 18/11/19           Mon 18/11/20         Mon 6/1/20           Mon 6/1/20         NA           NA         NA           <td< td=""><td>Thu 27/3/25           Thu 5/3/20           Sat 12/1/20           Mon 21/11/22           Fri 14/8/20           Sat 12/1/20           Wed 5/2/20           NA           Sat 28/3/20           NA           NA           NA           NA           NA</td><td>1986 days?           121 days           232 days           233 days           188 days           459 days           0 days           0 days           98 days           24 days           40 days           24 days           374 days?           24 days           374 days?           24 days           16 days           24 days           374 days?           26 days           26 days           10 days           20 days           10 days           20 days           20 days           20 days           20 days           10 days           20 days           20 days           10 days           22 days           22 days           22 days           22 days           22 days           26 days           10 days           10 days           26 days           10 days           7 days</td><td>Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Thu 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 13/2/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Wed 11/3/20 Fri 8/5/20 Thu 18/7/20 Thu 18/7/20 Thu 18/7/20 Thu 16/7/20 Fri 7/8/20 Mon 28/9/20 Tue 11/8/20</td><td>Fri 25/425           Tue 17/3/20           Wed 30/3/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Sat 11/7/20           Wed 16/12/20           Wed 16/12/20           Tue 17/3/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Sat 18/4/20           Wed 16/12/20           Tue 17/3/20           Fri 24/4/20           Sat 30/1/21           Fri 24/4/20           Sat 30/1/21           Fri 24/4/20           Tue 17/5/20           Tue 19/5/20           Tue 19/5/20           Tue 19/5/20           Tue 19/5/20           Tue 18/8/20           Fri 14/8/20           Fri 14/8/20           Tue 18/8/20           Wed 7/10/20</td><td>Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 28/9/20 Fri 24/4/20 Fri 24/4/20 Fri 24/4/20 Fri 24/4/20 Fri 24/4/20 Fri 24/4/20 Thu 18/7/20 Thu 18/7/20 Th</td><td>NA           Tue 17/3/20           Wed 30/9/20,4,172           NA           NA 194,139           Sat 18/1/20           Sat 18/1/20           Wed 16/1/20           Wed 8/4/20           Sat 11/7/20           Wed 8/4/20           Wed 8/4/20           Sat 11/7/20           Wed 8/4/20           Sat 11/7/20           Wed 16/12/20           Tue 10/3/20 /21           Sat 11/7/20           Wed 16/12/20           Tue 17/3/20 /231           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Yeel 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 19/5/20 /23,234           Tue 19/5/20 /243           Tue 18/8/20 /244           Fri 14/8/20           Tue 18/8/20           Wed 7/10/20 /247,245</td><td>244SS,226 242,261 227 228 229FS-1 day 227 228 229 233 240,234,235 240 319,237 319,237 319,237 318,319,272,288,289 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 244 242,243 244 242,257 248,253,257</td><td>1108 days? 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          26 days           26 days           10 days           20 days           10 days           20 days           20 days           20 days           20 days           10 days           20 days           20 days           10 days           22 days           22 days           22 days           22 days           22 days           26 days           10 days           10 days           26 days           10 days           7 days</td><td>Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Thu 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 9/4/20 Mon 9/3/20 Thu 13/2/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Wed 11/3/20 Fri 8/5/20 Thu 18/7/20 Thu 18/7/20 Thu 18/7/20 Thu 16/7/20 Fri 7/8/20 Mon 28/9/20 Tue 11/8/20</td><td>Fri 25/425           Tue 17/3/20           Wed 30/3/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Sat 11/7/20           Wed 16/12/20           Wed 16/12/20           Tue 17/3/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Sat 18/4/20           Wed 16/12/20           Tue 17/3/20           Fri 24/4/20           Sat 30/1/21           Fri 24/4/20           Sat 30/1/21           Fri 24/4/20           Tue 17/5/20           Tue 19/5/20           Tue 19/5/20           Tue 19/5/20           Tue 19/5/20           Tue 18/8/20           Fri 14/8/20           Fri 14/8/20           Tue 18/8/20           Wed 7/10/20</td><td>Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 28/9/20 Fri 24/4/20 Fri 24/4/20 Fri 24/4/20 Fri 24/4/20 Fri 24/4/20 Fri 24/4/20 Thu 18/7/20 Thu 18/7/20 Th</td><td>NA           Tue 17/3/20           Wed 30/9/20,4,172           NA           NA 194,139           Sat 18/1/20           Sat 18/1/20           Wed 16/1/20           Wed 8/4/20           Sat 11/7/20           Wed 8/4/20           Wed 8/4/20           Sat 11/7/20           Wed 8/4/20           Sat 11/7/20           Wed 16/12/20           Tue 10/3/20 /21           Sat 11/7/20           Wed 16/12/20           Tue 17/3/20 /231           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Yeel 24/3/21           Wed 24/3/21           Wed 24/3/21           Wed 19/5/20 /23,234           Tue 19/5/20 /243           Tue 18/8/20 /244           Fri 14/8/20           Tue 18/8/20           Wed 7/10/20 /247,245</td><td>244SS,226 242,261 227 228 229FS-1 day 227 228 229 233 240,234,235 240 319,237 319,237 319,237 318,319,272,288,289 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 244 242,243 244 242,257 248,253,257</td><td>1108 days? 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C-1000         C-1000           C-1000         C           CAR-0000         C           CAR-0000         C           CAR-0000         C           CAR-0000         C           CW-1000         C           CW-1000         C           CW-1000         C           CW-1000         C           CW-1000         C           CW-1200         C           CW-1310         C           CW-1310         C           CW-1320         C           CW-1330         C           CW-1430         C           CW-1400         C           CW-1401         C           CW-1421         C           CW-1423         C           CW-1424         C           CW-1425         C           CW-1426         C           CW-1440         C	Construction Works (Working day)           Preliminary Works           Access Road (AR3), B-1           Inlet Works No. 1, B-2           Diversion Works (1. Inlet Trunk Sever, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)           Utilities scanning to idenity existing UU arrangement Trial pits to locate the collection points           Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing Intel Works           Construction of concrete plinth           Installation of Decodrizer           Testing & commissioning           Demolishment of the existing carbon decodrization unit           Diversion of Intel Trunk Sever (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Intel Reception Chamber)           Joint Initial Survey arrangement with MTRCL           Remedial Works for uncharted Sludge Pipe leakage           Diversion of uncharted DN250 sludge pipe           Diversion of uncharted DN250 sludge pipe           Additional Underground Utility Scanning for existing sludge pipe           HV Cable Diversion of Existing Sludge Pump Pt           Removal and Diversion System and Facilities between Existing Primary Sludge Thokeners and Primary Sludge Pump Pt           Removal of concrete surround and uncharted sludge pipe           Removal of concrete surround and manholes           Sheetpile installation (on hidid due to identification of uncharted obstruction)<	008 41 0078 41 0072 00 0072 02 0045 02 0040	1957 day           199 days           193 days           184 days           12 days           24 days           0 days           0 days           0 days           0 days           145 days           0 days           1 0 days           2 0 days           1 0 days           3 0 days           1 0 days           3 0 days           1 0 days           3 0 days           4 146 days           3 0 days           4 0 days           3 0 days	ys         Mon 18/11/19           Mon 18/11/20         Mon 26/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA	Thu 27/3/25           Thu 5/3/20           Sat 12/1/20           Mon 21/11/22           Fri 14/8/20           Sat 12/1/20           Wed 5/2/20           NA           Sat 28/3/20           NA           NA           NA           NA           NA	1986 days?           121 days           238 days           1188 days           459 days           0 days           0 days           24 days           24 days           24 days           24 days           24 days           374 days?           24 days           15 days           20 days           374 days?           1 day           1 day           1 days           268 days           20 days           22 days           28 days <td< td=""><td>Mon 18/11/19 Mon 18/11/19 Thu 22/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Mon 11/6/20 Mon 11/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Mon 9/3/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Thu 18/7/20 Thu 18/7/20 Th</td><td>Fri 25/425           Tue 17/3/20           Wed 30/5/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 10/3/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Fri 24/4/20           Sat 18/4/20           Wed 24/3/21           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 19/5/20           Tue 19/5/20           Tue 18/8/20           Fri 14/8/20           Fri 14/8/20           Fri 14/8/20           Wed 7/10/20           Fri 11/9/20</td><td>Mon 18/11/19 Mon 18/11/19 Thu 12/12/19 Thu 22/11/19 Thu 26/11/19 Thu 26/11/19 Thu 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 9/3/20 Thu 9/1/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 4/5/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20 Fri 8/5/20 Thu 18/6/20 Thu 18/6/20 Thu</td><td>NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,223SS,140           Sat 11/7/20           Wed 8/4/20 223           Sat 30/5/20 226           Wed 8/4/20 223           Sat 11/7/20           Wed 8/4/20 223           Sat 11/7/20 2265-1 day           NA           Wed 16/12/20           Tue 10/3/20 231           Tue 17/3/20 231           Tue 17/3/20 233           Sat 18/4/20 233           Wed 24/3/21 236           NA           Fri 24/4/20 233           Sat 18/4/20 233           Wed 24/3/21 236           NA           Fri 28/8/20           Tue 19/5/20 243           Tue 19/5/20 240           NA           Fri 14/8/20           Tue 18/8/20 241           Wed 15/7/20 243           Tue 18/8/20           Wed 7/10/20 247,245           Fri 11/8/20           Wed 7/10/20 247,245           Fri 11/8/20</td><td>244SS,226 242,261 227 228 229FS-1 day 227 228 229 233 240,234,235 240 319,237 319,237 319,237 318,319,272,288,289 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 244 242,243 244 242,257 248,253,257</td><td>1108 days? 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          0 days           0 days           9 days <t< td=""><td>32%           100%           100%           47%           59%           100%</td><td></td><td></td><td></td><td></td></t<>	32%           100%           100%           47%           59%           100%				
CPW-1000         -           CAR-0000         -           CIW-0000         -           CIW-1100         -           CIW-1100         -           CIW-1200         -           CIW-1300         -           CIW-1300         -           CIW-1310         -           CIW-1320         -           CIW-1330         -           CIW-1340         -           CIW-1420         -           CIW-1420         -           CIW-1420         -           CIW-1420         -           CIW-1423         -           CIW-1424         -           CIW-1425         -           CIW-1426         -           CIW-1427         -           CIW-1428         -           CIW-1429         -           CIW-1420         -           CIW-1420         -           CIW-1420         -           CIW-1420         -           CIW-1420         -           CIW-1450         -           CIW-14500         -           CIW-14500         -           CIW-14500         -	Construction Works (Working day)           Preliminary Works           Access Road (RS), B-1           Inlet Works No.1, B-2           Diversion Works (1.1 nich Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners)           Utilities scanning to idenify existing UU arrangement           Trial pits to locate the collection points           Installation and Commissioning of Temporary Activated Carbon Decodrization Unit for the Existing anter Works           Construction of concrete plinth           Installation and Decodrizer           Testing & commissioning           Demolishment of the existing carbon deodorization unit           Diversion of Intel Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Intel Reception Chamber)           Joint Initial Survey arrangement with MTRCL           Remedial Works for uncharded sludge pipe           Diversion of uncharted DN250 sludge pipe           Diversion of uncharted DN250 sludge pipe           HV Cable Diversion for Intel Works           Exposing, Removal and Diversion of Existing Cables near Intel Work No.1           Diversion of Existing Sludge Pipe Intel Morks No.1           Diversion of Decodrization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pupe Pipe           Removal of concrete surround and uncharted sludge pipe           Removal of concrete surround and uncharte	008 41 007 22 007 22 007 22 007 22 007 02 007 00 007 00	1957 day           199 days           193 days           193 days           193 days           124 days           24 days           0 days           0 days           0 days           0 days           0 days           0 days           10 days           110 days           124 days           0 days           146 days           0 days           10 days           110 days           120 days           130 days           146 days           10 days           110 days           110 days           120 days           1310 days           140 days           1210 days           1321 days           140 days           120 days           1310 days           145 days           145 days           10 days           146 days           146 days           10 days           10 days           10 days           145 days           146 days           143 days	ys         Mon 18/11/19           Mon 18/11/20         Mon 26/1/20           Mon 6/1/20         Mon 6/1/20           Mon 6/1/20         NA           NA	Thu 27/3/25           Thu 5/3/20           Sat 12/120           Mon 21/11/22           Fri 14/8/20           Sat 12/1/20           Wed 5/2/20           NA	1986 days?           121 days           232 days           238 days           1188 days           459 days           0 days           0 days           98 days           24 days           40 days           24 days           374 days?           24 days           24 days           374 days?           28 days?           102 days           102 days           208 days?           102 days           202 days           202 days           102 days           202 days           202 days           102 days           202 days           202 days           102 days           202 days           203 days           204 days           202 days           22 days           28 days           28 days           28 days	Mon 18/11/19 Mon 18/11/19 Thu 12/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 16/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Mon 28/9/20 Fri 28/8/20 Fri 7/8/20 Thu 16/7/20 Fri 7/8/20 Mon 28/9/20 Tue 11/8/20 Tue 11/8/20 Tue 11/8/20 Tue 22/12/20	Fri 25/425           Tue 17/3/20           Wed 30/3/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Tue 28/11/23           Wed 16/6/21           Sat 18/1/20           Sat 11/7/20           Sat 10/3/20           Sat 11/7/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Sat 12/6/21           Wed 16/12/20           Tue 17/3/20           Sat 12/6/21           Wed 24/3/21           Wed 24/3/21           Sat 30/1/21           Fri 24/4/20           Sat 30/1/21           Fri 28/8/20           Tue 19/5/20           Tue 19/5/20           Tue 19/5/20           Tue 18/8/20           Wed 15/7/20           Tue 18/8/20           Fri 14/8/20           Wed 7/10/20           Fri 11/9/20           Fri 11/9/20           Fri 11/9/20	Mon 18/11/19 Mon 18/11/19 Thu 18/11/19 Thu 12/12/19 Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 28/9/20 Thu 18/7/20 Thu 18/7/20 Thu 18/7/20 Thu 18/7/20 Thu 18/7/20 Thu 18/7/20 Thu 18/7/20 Mon 28/9/20 Thu 18/7/20 Mon 28/9/20 Tue 11/8/20 NA	NA           Tue 17/3/20           Wed 30/9/20 4,172           NA           NA 194,139           Sat 18/1/20 174           Tue 10/3/20 174,22355,140           Sat 18/1/20           Wed 8/4/20 223           Sat 17/7/20           Wed 8/4/20 223           Sat 17/7/20           Wed 17/6/20 227           Sat 11/7/20           Sat 11/7/20           Wed 16/12/20           Tue 17/3/20 221           The 14/20 223           Sat 18/4/20 223           Sat 18/4/20 223           Sat 18/4/20 223           Ved 24/3/21 236           NA           Fri 28/8/20           Tue 19/5/20 233,234           Tue 19/5/20 241           Wed 15/7/20 243           Tue 18/8/20           Wed 15/7/20 243           Tue 18/8/20           Wed 15/7/20 245           Fri 11/8/20           Wed 15/7/20 245           Fri 11/8/20           Wed 15/7/20 245           Fri 11/8/20           Wed 7/10/20 247,245           Fri 11/8/20           Wed 7/10/20 247,245           Fri 11/8/20 249           NA	244SS,226 242,261 227 228 229FS-1 day 227 228 229 233 240,234,235 240 319,237 319,237 319,237 318,319,272,288,289 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 241 242,243 244 242,243 244 242,257 248,253,257	1108 days?           0 days           0 days           59 days           36 days           0 days	32%           100%           100%           47%           59%           100% <td></td> <td></td> <td></td> <td></td>				

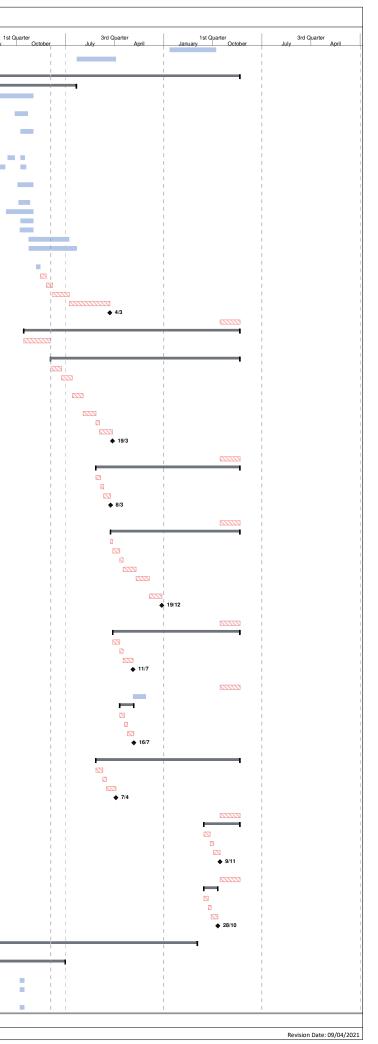
	fluent P	lishing Pla	nt - Main Works Stage 1		MID	D	Dec. 1 Cliff	Duri			atual C:	Revised Works Programme (Status Date		Tabl Olast	a de Ormalas de Reiserra en com	1	
ID Activity I	ID Ke Da		Inclement	NCE/ECE/P	MI Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	Actual Start A	Actual Finish Predecessors	Successors	Total Slack Risk Allowanc	ce % Complete Individual Critical Path	uarter	1st Q
53 CIW-145	53		Additional Works for Manhole MHA01 Constructin and Pipe	094,14	0 days	NA	NA	160 days	Wed 16/9/20	Wed 31/3/21	Wed 16/9/20	NA 245,247	251	0 days	0%	April	January
4 CIW-145	54			096	0 days	NA	NA	17 days	Fri 18/9/20	Fri 9/10/20	Fri 18/9/20	Fri 9/10/20	255,257,251	0 days	100%	-	
5 CIW-145	55		Manhole FMH1004115 Removal of left-in sheetoiles at IRC	111	0 days	NA	NA	3 days	Mon 19/10/20	Wed 21/10/20	Mon 19/10/20	Wed 21/10/20 254		0 days	100%	-	i.
56 CIW-145				077 065	0 days	NA	NA	1 day	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20		0 days	100%		1
57 CIW-145			Lay 1800mm dia concretre pipe Connection to existing Inlet Chamber		24 days 12 days	Sat 20/6/20 Tue 21/7/20	Mon 20/7/20 Mon 3/8/20	88 days 12 days	Thu 17/9/20 Tue 26/1/21	Mon 25/1/21 Mon 8/2/21	Thu 17/9/20 NA	NA 244,245,254 NA 257	258 43FF,318	101 days 101 days	0%	-	
59 CIW-150			Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain		150 days	Thu 6/2/20	Fri 7/8/20	517 days	Tue 26/11/19	Tue 24/8/21	Tue 26/11/19	NA	4011,010	-22 days	57%	E E	1
60 CIW-151	10 KI	1B	Diversion of Tank Drain MHD8.5 (approx. 70m CHES1 & CHES2)		150 days	Thu 6/2/20	Fri 7/8/20	63 days	Sat 19/9/20	Fri 4/12/20	Sat 19/9/20	NA 287	43FF,318	154 days	94%		
61 CIW-150			Diversion of Tank Drain MHD9.5 to MHA04 (approx. 70m 675mm		150 days		Fri 7/8/20	475 days	Tue 26/11/19	Tue 6/7/21	Tue 26/11/19	NA 224	4011,010	-16 days	58%	E E	
			dia conrete pipe, 24m DN250 DI leachate rising main, 90m CHES1&S2 DN250 CI )														1
262 CIW-150	00b		Joint Initial Survey arrangement with MTRCL		0 days	NA	NA	158 days	Tue 26/11/19	Wed 10/6/20	Tue 26/11/19	Wed 10/6/20		0 days	100%		1
263 CIW-150	00c		Site Clearance & inspection pit excavation under conforming alignments		0 days	NA	NA	36 days	Fri 12/6/20	Sat 25/7/20	Fri 12/6/20	Sat 25/7/20		0 days	100%		
264 CIW-151	11		Tank Drain Diversion near MTRCL track		0 days	NA	NA	233 days	Thu 11/6/20	Mon 22/3/21	Thu 11/6/20	NA		68 days	72%		
265 CIW-151			(	044 040	0 days	NA	NA	12 days	Mon 27/7/20	Sat 8/8/20	Mon 27/7/20	Sat 8/8/20	266,270	0 days	100%	-	
266 CIW-151 267 CIW-151			Uncharted cables found near MTRC track and identification Excavation of trial pit near MHD8.5	044	0 days 0 days	NA	NA	1 day 5 days	Thu 18/6/20 Fri 19/6/20	Thu 18/6/20 Wed 24/6/20	Thu 18/6/20 Fri 19/6/20	Thu 18/6/20 265 Wed 24/6/20	268	0 days 0 days	100%		
268 CIW-151	I1d		Lower the ground surface, opening and additional trial pit (TP38)	046	0 days	NA	NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20 267	269	0 days	100%		
269 CIW-151	11e		Excavation of Trial Pits near Manhle MHA04 and MH09	040	0 days	NA	NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20 268		0 days	100%	-	_
270 CIW-151				095	0 days	NA	NA	25 days	Fri 21/8/20	Fri 18/9/20	Fri 21/8/20	Fri 18/9/20 265	271	0 days	100%		=
271 CIW-151 272 CIW-151			÷ •	085 051 145	0 days 0 days	NA	NA	19 days 61 days	Tue 8/9/20 Wed 18/11/20	Tue 29/9/20 Sat 30/1/21	Tue 8/9/20 Wed 18/11/20	Tue 29/9/20 270 NA 238	279	0 days 108 days	100%		
273 CIW-151			Compliance Test for DN675 and DN825 Precast concrete pipe	232	0 days	NA	NA	1 day	Fri 18/12/20	Fri 18/12/20	NA	NA	281	0 days	0%	-	1
274 CIW-151	11		Unsuit excavated material from MHD9.5 to MHD9	127	0 days	NA	NA	4 days	Fri 20/11/20	Tue 24/11/20	Fri 20/11/20	Tue 24/11/20		0 days	100%	-	1
275 CIW-151	, 11k		Revise design of manhole MHD9.5	167	0 days	NA	NA	20 days	Thu 7/1/21	Fri 29/1/21	Thu 7/1/21	Fri 29/1/21	276	0 days	100%		I.
276 CIW-151 277 CIW-151				167 176	0 days 0 days	NA	NA	25 days 9 days	Sat 30/1/21 Mon 18/1/21	Wed 3/3/21 Wed 27/1/21	Sat 30/1/21 Mon 18/1/21	Wed 3/3/21 275 Wed 27/1/21		0 days 0 days	100%		1
277 CIW-151 278 CIW-151				180	0 days 0 days	NA	NA	30 days	Tue 16/2/21	Mon 22/3/21	Tue 16/2/21	NA		68 days	0%		1
279 CIW-151 280 CIW-151			Additional Special manhole for tank drain (NCE) Breaking of concrete surround of cables (0.8mx0.8mx70m) (NCE)		0 days	NA	NA	35 days	Mon 24/8/20 Tue 6/10/20	Mon 5/10/20 Tue 15/12/20	Mon 24/8/20 Tue 6/10/20	Mon 5/10/20 271 NA 279	280,281	0 days 145 days	100%	-	i –
200 0100-131	13		Breaking of concrete surround of cables (0.6mx0.6mx70m) (NCE)		0 days	IN/A	INA	60 days	100 0/10/20	100 15/12/20	108 0/10/20	NA 215			10.76		
281 CIW-151 282 CIW-151		01B	Construction of tank drain along revised alignment (NCE) Replacement of rock fill material (NCE)		0 days	NA	NA	221 days	Tue 6/10/20 Tue 12/1/21	Tue 6/7/21 Sat 22/5/21	Tue 6/10/20 NA	NA 279,273 NA 281SS+80 days	282SS+80 days,43FF,318 283SS+80 days	-16 days 15 days	21%	-	1
283 CIW-151			Backfilling with concrete bedding (NCE)		0 days 0 days	NA	NA	105 days 30 days	Thu 22/4/21	Fri 28/5/21	NA	NA 282SS+80 days	20000000000	15 days	0%	-	1
284 CIW-152			Diversion of Sludge Pipes		75 days	Tue 21/4/20	Tue 21/7/20	364 days	Mon 11/5/20	Thu 29/7/21	Mon 11/5/20	NA	000	0 days	59%	-	
285 CIW-152 286 CIW-152			· · · · · · · · · · · · · · · · · · ·	064 064	0 days 75 days	NA Tue 21/4/20	NA Tue 21/7/20	103 days 4 days	Mon 11/5/20 Wed 15/7/20	Wed 9/9/20 Sat 18/7/20	Mon 11/5/20 Wed 15/7/20	Wed 9/9/20 Sat 18/7/20 285	286 287	0 days 0 days	100%	-	
			AECOM	···													
287 CIW-152	20c		Additional hole drilling works and identification of connetion point		0 days	NA	NA	53 days	Mon 20/7/20	Fri 18/9/20	Mon 20/7/20	Fri 18/9/20 286	260	0 days	100%		-
288 CIW-152				120	0 days	NA	NA	127 days	Tue 20/10/20	Wed 24/3/21	Tue 20/10/20	Wed 24/3/21 238		0 days	100%		1
289 CIW-152 290 CIW-152				133 123	0 days 0 days	NA	NA	50 days 2 days	Mon 1/2/21 Tue 10/11/20	Tue 6/4/21 Wed 11/11/20	NA Tue 10/11/20	NA 238 Wed 11/11/20	291	58 days 0 days	0%	-	1
			MHA04														1
291 CIW-152 292 CIW-153	-		Resumption and construction of sludge pipe construction Diversion of Leachate Rising Main		0 days 60 days	NA Tue 21/4/20	NA Fri 3/7/20	253 days 60 days	Sat 19/9/20 Tue 15/6/21	Thu 29/7/21 Tue 24/8/21	Sat 19/9/20 NA	NA 290 NA 251	43FF,318 319SS+40 days	-36 days -58 days	23%	-	E∑
293 CIW-160			Diversion of pipelines near Primary Sludge Thickeners (approx.		156 days	Thu 6/2/20	Fri 14/8/20	399 days	Tue 26/11/19	Wed 31/3/21	Tue 26/11/19	NA	01000++0 days	60 days	43%	E E	1
294 CIW-161	10		180m long 150mm to 375mm concrete pipes) Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with		60 days	Thu 6/2/20	Mon 20/4/20	0 10.00	Tue 26/11/19	Tue 26/11/19	NA	NA		0 days	0%		26/11
254 0100-101			WHs MHD1A, 1B, 1C, 1D & 1E)		60 days	110 0/2/20	W011 20/4/20	0 days	100 20/11/10	100 20/11/10	INA	INA.		0 days	076	•	1
295 CIW-162 296 CIW-162			Manholes construction and Pipe laying	034	60 days	Mon 30/3/20	Sat 13/6/20	50 days	Tue 2/6/20 Sat 1/8/20	Fri 31/7/20 Mon 24/8/20	Tue 2/6/20 Sat 1/8/20	Fri 31/7/20 Mon 24/8/20 295	43FF,302,296	0 days	100%	-	· •
296 CIW-162 297 CIW-162			Temporary Diversion of Existing DN200 Filitrate Rising Main E&M Equipment at Primary Sludge Thickeners to be Dismantled and	034	0 days 0 days	NA	NA	20 days 60 days	Tue 25/8/20	Thu 5/11/20	Tue 25/8/20	NA 296	297,298	0 days 179 days	15%		
298 CIW-162	22		Returned to DSD/ST1  Bipeline Diversion Works near Brimen: Studge Thiskening Task	114	0 davs	NA	NIA	20 dava	Tue 25/8/20	Mon 28/9/20	NA	NA 296	299.300	169 days	0%	-	-
299 CIW-162			, · · · · · · · · · · · · · · · · · · ·	126	0 days	NA	NA	30 days 41 days	Thu 12/11/20	Thu 31/12/20	NA	NA 298	300SS+15 days	168 days 133 days	0%	-	: T
300 CIW-162				141	0 days	NA	NA	26 days	Mon 30/11/20	Thu 31/12/20	NA Ti tarara	NA 299SS+15 days,298	301	133 days	0%	-	
301 CIW-163	30		Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs M1A to M3B)	012	60 days	Tue 21/4/20	Fri 3/7/20	32 days	Thu 19/3/20	Wed 29/4/20	Thu 19/3/20	Wed 29/4/20 300	302,303	0 days	100%		
302 CIW-164				012 058	25 days	Mon 15/6/20	Wed 15/7/20	12 days	Mon 4/5/20	Sat 16/5/20	Mon 4/5/20	Sat 16/5/20 301,295	43FF,305	0 days	100%	-	
303 CIW-165	50		Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with M/Hs MHD5A & 5B)		50 days	Thu 16/7/20	Fri 11/9/20	50 days	Wed 2/9/20	Mon 2/11/20	Wed 2/9/20	Mon 2/11/20 301,307,312,313,314,316	342SS	0 days	100%		
304 CIW-166			Provision of Pumping System from Screen to Flume Channel	87	0 days	NA	NA	90 days	Tue 10/11/20	Mon 1/3/21	Tue 10/11/20	NA	305	0 days	0%	-	1
305 CIW-167 306 CIW-200		18	Manholes construction and Pipe laying Decommission and Demolition of Existing Faciliates and Structures		45 days 240 days	Sat 23/5/20 Mon 2/3/20	Thu 16/7/20 Fri 18/12/20	50 days 222 days	Tue 3/11/20 Thu 19/3/20	Wed 31/3/21 Tue 15/12/20	Tue 3/11/20 Thu 19/3/20	NA 302,304 Tue 15/12/20 6,138,176,178	43FF	60 days 0 days	48%		· •
																	1
307 CIW-210 308 CIW-210			Primary Sludge Thickening Tank No.1 and No.2 Additional Works for Temporary Diversion of Bypass Pipe near	012	80 days 0 days	Mon 2/3/20	Tue 9/6/20	45 days	Thu 19/3/20 Thu 19/3/20	Tue 15/12/20 Sun 17/5/20	Thu 19/3/20 Thu 19/3/20	Tue 15/12/20 Sun 17/5/20	303	0 days 0 days	100%	-	
			Primary Sludge Thickeners														
309 CIW-211 310 CIW-212				020 052	0 days 80 days	NA Mon 2/3/20	NA Tue 9/6/20	1 day 150 days	Thu 4/6/20 Thu 18/6/20	Thu 4/6/20 Tue 15/12/20	Thu 4/6/20 Thu 18/6/20	Thu 4/6/20 Tue 15/12/20 309	310 312	0 days 0 days	100%		
311 CIW-213	30		Demolition of structure no.2		0 days	NA	NA	24 days	Mon 18/5/20	Mon 22/6/20	Mon 18/5/20	Mon 22/6/20		0 days	100%		
312 CIW-220 313 CIW-230			Primary Sludge Pump Pit Septic Tank		60 days 50 days	Wed 10/6/20 Fri 21/8/20	Thu 20/8/20 Tue 20/10/20	18 days 18 days	Wed 22/7/20 Wed 12/8/20	Tue 11/8/20 Tue 1/9/20	Wed 22/7/20 Wed 12/8/20	Tue 11/8/20 310 Tue 1/9/20 312	313,314,303,315 303	0 days 0 days	100% 100%		
313 CIW-230 314 CIW-240			Septic Tank Diesel Tank		50 days	Wed 21/10/20	Fri 18/12/20	18 days	Thu 2/7/20	Tue 1/9/20 Tue 1/9/20	Thu 2/7/20	Tue 1/9/20 312 Tue 1/9/20 312	303	0 days	100%	-	i —
315 CIW-241				001	0 days	NA	NA	15 days	Thu 2/7/20	Tue 21/7/20	Thu 2/7/20	Tue 21/7/20 312	316	0 days	100%		
316 CIW-242 317 CIW-300			Demolition of diesel tank Inlet Works No.1 Building (1)		50 days 569 days	Wed 21/10/20 Sat 19/12/20	Fri 18/12/20 Mon 21/11/22	18 days 961 days	Wed 12/8/20 Wed 2/9/20	Tue 1/9/20 Tue 28/11/23	Wed 12/8/20 Wed 2/9/20	Tue 1/9/20 315 NA 6	303	0 days 59 days	100% 0%		i
318 CIW-310	00		Predrilling (32nrs, 3rigs, 2.5days/drillhole/rig)		40 days	Mon 4/1/21	Mon 22/2/21	0 days	Tue 15/9/20	Mon 22/2/21	Tue 15/9/20	Mon 22/2/21 258,260,281,291,238	319SS+40 days	0 days 1	100%		
319 CIW-320	00		Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) & remaining diversion works at Stage 2 & 3		133 days	Tue 23/2/21	Wed 4/8/21	250 days	Fri 19/2/21	Tue 7/6/22	Fri 19/2/21	NA 148,318SS+40 days,236,238,292SS days	+40 324,320SS+80 days,321	-522 days 5	0%		1
320 CIW-340			Pile Load Test at stage 1		26 days	Thu 5/8/21	Fri 3/9/21	21 days	Sat 29/5/21	Wed 23/6/21	NA	NA 319SS+80 days	321,322	-240 days	0%		1
321 CIW-340			Pile Load Test at stage 2 & 3 Shoothile Installation at stage 1/ 2 840nn m. trian, E0nam/sig/day)		0 days?	NA	NA Wod 20/6/21	21 days	Wed 8/6/22	Sat 2/7/22	NA	NA 320,319	324,323,337	-522 days	0%		i.
322 CIW-330 323 CIW-330			Sheetpile Installation at stage 1( 3,840sq.m, 1rigs, 50sqm/rig/day) Sheetpile Installation at stage 2 & 3		80 days 0 days?	Tue 23/3/21 NA	Wed 30/6/21 NA	80 days 80 days	Thu 24/6/21 Mon 4/7/22	Mon 27/9/21 Fri 7/10/22	NA NA	NA 149,320 NA 321	324,325 326	-219 days -522 days	0%	-	l I
324 CIW-350	00		ELS works (strutting 4 layers, excavate soil 7445cu.m)		77 days	Sat 4/9/21	Mon 6/12/21	77 days	Sat 2/10/21	Tue 4/1/22	NA	NA 322,319,150,321		0 days 5	0%		1
325 CIW-351			Phrase C (Grid A1 to G3) - Excavation to -3.3mPD and blinding Phrase B (Grid G3 to L7) - Excavation to -7.5mPD and blinding		77 days 77 days	Fri 4/6/21 Fri 4/6/21	Mon 6/12/21 Mon 6/12/21	77 days 77 days	Sat 2/10/21 Sat 8/10/22	Tue 4/1/22 Mon 9/1/23	NA NA	NA 322 NA 323	329 333	-154 days -522 days	0%		1
326 CIW-354	00		R.C. Structure works		296 days	Thu 5/8/21	Thu 4/8/22	296 days	Thu 2/9/21	Thu 1/9/22	NA	NA 152,196,197,200,198		0 days 5	0%		1
326 CIW-352 327 CIW-360			Phase C (Grid G3 to L7) Poter fix and formwork and concrating for the pile can (G/E)		105 days	Thu 5/8/21	Wed 8/12/21	105 days	Thu 2/9/21	Sat 8/1/22	NA	NA NA 325	330	0 days	0%		1
327 CIW-360 328 CIW-361			Rebar fix and formwork and concreting for the pile cap (G/F) Rebar fix and formwork and concreting upto +13.45mPD (1/F)		40 days 25 days	Thu 5/8/21 Tue 21/9/21	Mon 20/9/21 Fri 22/10/21	40 days 25 days	Wed 5/1/22 Thu 24/2/22	Wed 23/2/22 Thu 24/3/22	NA NA	NA 325 NA 329	330 331	-154 days -154 days	0%		1
327 CIW-360			Rebar fix and formwork and concreting upto +25.80mPD (R/F)		40 days	Sat 23/10/21	Wed 8/12/21	40 days	Fri 25/3/22	Tue 17/5/22	NA	NA 330	44FF,340	-154 days	0%		1
327 CIW-360 328 CIW-361 329 CIW-361 330 CIW-361 331 CIW-361	12		Phase B (Gride A1 to G3) (621 sqm)		193 days	Tue 7/12/21 Tue 7/12/21	Thu 4/8/22 Mon 14/2/22	193 days	Wed 5/1/22 Tue 10/1/23	Tue 30/8/22 Thu 16/3/23	NA NA	NA NA 326	334	-522 days	0%		1
327         CIW-360           328         CIW-361           329         CIW-361           330         CIW-361           331         CIW-361           332         CIW-362	12 13 20		Rehar fix and formwork and concretion for the lefet Merke		54 down		WOT 14/2/22	54 days	Tue 10/1/23	110 10/3/23	NA	10020	004	JEL UAYO	U 76	1	1
327         CIW-360           328         CIW-361           329         CIW-361           330         CIW-361           331         CIW-361           332         CIW-362           333         CIW-362	12 13 20 21		Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level		54 days												
327         CIW-360           328         CIW-361           329         CIW-361           330         CIW-361           331         CIW-361           332         CIW-363           333         CIW-362           333         CIW-362           334         CIW-362	12 13 20 21 22		structure upto Ground Level Apply waterproofing membrance and backfilling		14 days	Tue 15/2/22	Wed 2/3/22	14 days	Fri 17/3/23	Sat 1/4/23	NA	NA 333,195	335 340 341 44FE	-522 days	0%	-	1
327         CIW-360           328         CIW-361           329         CIW-361           330         CIW-361           331         CIW-361           332         CIW-362           333         CIW-362           334         CIW-362           335         CIW-362	12 13 20 21 22 23		structure upto Ground Level Apply waterproofing membrance and backfilling Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level		14 days 105 days	Tue 15/2/22 Thu 3/3/22	Thu 4/8/22	105 days	Mon 3/4/23	Fri 11/8/23	NA	NA 334	335 340,341,44FF	-522 days -522 days	0%	-	   
327         CIW-360           328         CIW-361           329         CIW-361           330         CIW-361           331         CIW-361           332         CIW-363           333         CIW-362           333         CIW-362           334         CIW-362	12 13 20 21 22 23		structure upto Ground Level Apply waterproofing membrance and backfilling Rebar fix and formwork and concreting for the Inlet Works		14 days	Tue 15/2/22 Thu 3/3/22										-	     



D Activity ID			CE for NCE/ECE/PM		Baseline Start	Baseline Finish	Duration	Start	Finish A	ctual Start A	Revised Works Programme (Status Da ctual Finish Predecessors	Successors	Total Slack	Risk Allowance	% Complete	Individual Critical Path	uartar	
37 CIW-3631	Date	Rebar fix and formwork and concreting for the Inlet Works	Inclement Weather	Duration 54 days	Tue 7/12/21	Mon 14/2/22	54 days	Mon 4/7/22	Sat 3/9/22	NA	NA 321	338	-365 days		0%		uarter April	1st January
38 CIW-3632	2	structure upto Ground Level Apply waterproofing membrance and backfilling		14 days	Tue 15/2/22	Wed 2/3/22	14 days	Mon 5/9/22	Wed 21/9/22	NA	NA 337,195	339	-365 days		0%		_	
39 CIW-3633		Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level		105 days	Thu 3/3/22	Thu 4/8/22	105 days	Thu 22/9/22	Tue 31/1/23	NA	NA 338	341,44FF,340	-365 days		0%		-	
40 CIW-3700	KD1C	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Thu 4/8/22	Thu 4/8/22	0 days	Fri 11/8/23	Fri 11/8/23	NA	NA 339,335,331	44FF,498,492	-522 days		0%		-	
41 CIW-3800		ABWF works + BS works		90 days	Fri 5/8/22	Mon 21/11/22	90 days	Sat 12/8/23	Tue 28/11/23	NA	NA 339,199,157,335	56FF	59 days		0%		_	
42 CIW-3900 43 CPS-0000		Process Pipe CHE chainage 0-20 & CHF chainage 0-20 Primary Sedimentation Tanks, B-3 (2)		0 days 1115 days	NA Mon 18/11/19	NA Wed 23/8/23	0 days	Wed 2/9/20 Mon 18/11/19	Wed 2/9/20 Wed 23/8/23	Wed 2/9/20 Mon 18/11/19	Wed 2/9/20 303SS NA 8	57FF	0 days 139 days		100% 25%			•
44 CPS-1000	)	Operation of the Existing Primary sedimentation Tanks		615 days	Mon 18/11/19	Sat 24/7/21	615 days	Mon 18/11/19	Sat 24/7/21	Mon 18/11/19	NA 2	345	-323 days		62%			
45 CPS-1100 46 CPS-1200		Identification of existing cables near Primiary Sedimentation Tank Reinstatement and re-commissioning of existing Primary Sedimentation	88	0 days 0 days	NA	NA NA	65 days 35 days	Mon 26/7/21 Tue 12/10/21	Mon 11/10/21 Mon 22/11/21	NA NA	NA 344 NA 345	346 347	-261 days -261 days		0% 0%		_	
47 CPS-2000	)	Tank No. 4 and 6 (by others) Demolition of existing primary sedimentation tanks no. 1 & 2		45 days	Mon 13/12/21	Wed 9/2/22	45 days	Tue 23/11/21	Mon 17/1/22	NA	NA 138,176,178,346	348	-261 days		0%		-	
48 CPS-3000	)	Predrilling (68nrs, 3rigs, 3days/drillhole/rig)		38 days	Thu 10/2/22	Fri 25/3/22 Mon 1/8/22	38 days	Tue 18/1/22 Mon 7/3/22	Sat 5/3/22 Tue 12/7/22	NA NA	NA 347,143,439 NA 348,148,440	349	-261 days	1	0%		-	
50 CPS-5000	)	Pre-bored H piles (205nos, 4rigs, 2days/pile/rig) Sheetpile Installation (FSP-II, 3360sq.m, 1rigs, 50sqm/rig/day)		102 days 85 days	Sat 26/3/22 Wed 25/5/22	Fri 2/9/22	102 days 85 days	Wed 25/5/22	Fri 2/9/22	NA	NA 349FS-40 days,149	350FS-40 days,352,351 352	-261 days -261 days	5	0%			
51 CPS-6000 52 CPS-7000		Pile Load Test ELS works (20000cu.m soil with 2 layers wailing / strutting)		26 days 45 days	Tue 2/8/22 Sat 3/9/22	Wed 31/8/22 Fri 28/10/22	26 days 45 days	Wed 13/7/22 Sat 3/9/22	Thu 11/8/22 Fri 28/10/22	NA	NA 349 NA 349,151,351,350,144	352 353,357	-242 days -261 days	3	0%		_	
53 CPS-8000 54 CPS-9000		R.C. Structure works Allow access to Contractor DE/2018/04 for E&M installation and T&C works		92 days 0 days	Sat 29/10/22 Mon 20/2/23	Mon 20/2/23 Mon 20/2/23	92 days 0 days	Sat 29/10/22 Mon 20/2/23	Mon 20/2/23 Mon 20/2/23	NA NA	NA 352,153 NA 353	354,355,45FF,356 45FF	0 days 0 days	3	0%		-	
55 CPS-1000	00 SW1	ABWF works + BS works		150 days	Tue 21/2/23	Wed 23/8/23	150 days	Tue 21/2/23	Wed 23/8/23	NA	NA 353,199,157	56FF	139 days		0%			
56 CPS-1100 57 CPS-1200		Flowmeter Chamber no.1 Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHI chainage 0-95		60 days 0 days	Tue 21/2/23 NA	Sat 6/5/23 NA	60 days 180 days	Tue 21/2/23 Sat 29/10/22	Sat 6/5/23 Fri 9/6/23	NA	NA 353 NA 352	56FF 57FF	229 days -261 days		0%		_	
58 CBR-0000	o +	& CHJ chianage 0-40 Bioreactors No.2A & 2B, B-4 (3)		1106 days	Mon 18/11/19	Sat 12/8/23	1516 days?	Mon 18/11/19	Mon 6/1/25	Mon 18/11/19	NA9		1043 days?		28%			
59 CBR-1000	0	Operation of 2no. Existing 800mm air mains over bioreactor no.2		360 days	Mon 18/11/19	Wed 11/11/20	360 days	Mon 18/11/19	Wed 11/11/20	Mon 18/11/19	Wed 11/11/20 2	362FF	0 days		100%			
60 CBR-2000		Construction of Removable Steel Shutter in the Common Channel of BR2 and 3	67	0 days	NA	NA	86 days	Thu 1/10/20	Fri 15/1/21	Thu 1/10/20	Fri 15/1/21 160	361	0 days		100%			
61		Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)		0 days	NA	NA	43 days	Sat 16/1/21	Wed 10/3/21	Sat 16/1/21	Wed 10/3/21 360		0 days		100%			1
62 CBR-4000	)	Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes		0 days	NA	NA	90 days	Wed 13/1/21	Wed 5/5/21	NA	NA 359FF	363FF	2127 days		0%			
63 CBR-4100	)	Take Down E&M Equipment & cables in Bioreactor BR2 and Return to DSD	55 95, 21	0 0 days	NA	NA	90 days	Thu 15/10/20	Mon 1/2/21	Thu 15/10/20	Mon 1/2/21 362FF	373	0 days		100%		-	 
64 CBR-4200	)	Installation of monitoring points before demolition of BR2	113 219	0 days	NA	NA	5 days	Wed 27/1/21	Mon 1/2/21	Wed 27/1/21	Mon 1/2/21 371	365	0 days		100%		-	 
65 CBR-4300	)	Condition Survey for BR2		0 days	NA	NA	1 day	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20 364	373	0 days		100%		-	
66 CBR-5000 67 CBR-5100		Demolition of existing bioreactor no.2 Identification and removal of existing cables	121 210	60 days 0 days	Wed 3/2/21 NA	Tue 20/4/21 NA	50 days 35 days	Sat 19/12/20 Tue 10/11/20	Mon 22/2/21 Sat 19/12/20	Tue 10/11/20 Tue 10/11/20	NA 138,176,178 Sat 19/12/20	370,368	2185 days 0 days		61% 100%		-	
68 CBR-5200	0	Diversion of existing lighting cable and Earthing ducts_stage 1 Diversion of existing lighting cable and Earthing ducts_stage 2	264	0 days 0 days?	NA	NA	43 days 50 days	Fri 4/12/20 Thu 4/2/21	Tue 26/1/21 Fri 9/4/21	Fri 4/12/20 Thu 4/2/21	Tue 26/1/21 367 NA	373	0 days -37 days		100%		-	
70 CBR-5300		Plugging and demolition of existing DN800 air main	91	0 days	NA	NA	4 days	Mon 28/12/20	Thu 31/12/20	Mon 28/12/20	Thu 31/12/20 367		0 days		100%			
71 CBR-5400	0	Overflow incident from BR1 to BR2 works area no.1 Overflow incident from BR1 to BR2 works area (Feb 2021)	154	0 days 0 days	NA	NA	33 days 8 days?	Fri 18/12/20 Tue 16/2/21	Thu 28/1/21 Wed 24/2/21	Fri 18/12/20 Tue 16/2/21	Thu 28/1/21 Wed 24/2/21	364 373	0 days 0 days?		100%		_	
73 CBR-5500	0	Demolition of existing pipe bridge, partition wall and base slab (Stage 1)		30 days	Wed 3/2/21	Fri 12/3/21	26 days	Tue 2/2/21	Sat 6/3/21	Tue 2/2/21	Sat 6/3/21 368,365,372,363	377	0 days		100%			
74		Relocation of cables attached on the parapet wall	153	0 days	NA	NA	30 days	Thu 10/12/20	Sat 16/1/21	NA	NA		2213 days		0%			1
75 76 CBR-5600	)	Removal of additional concrete fill infill within the partition walls Demolition of surrounded walls and channel of BR2 (Stage 2)	174	0 days 30 days	NA Fri 12/3/21	NA Tue 20/4/21	26 days? 30 days	Tue 2/2/21 Fri 8/10/21	Sat 6/3/21 Fri 12/11/21	Tue 2/2/21 NA	Sat 6/3/21 NA 378		0 days? -216 days		100%		_	
77 CBR-6000		Predrilling (36nrs, 3rigs, 2days/drillhole/rig) Pre-bored H piles (157nos, 2rigs, 2days/pile/rig)		44 days 131 days	Wed 21/4/21 Tue 15/6/21	Sat 12/6/21 Thu 18/11/21	44 days	Mon 1/3/21 Mon 3/5/21	Fri 30/4/21 Thu 7/10/21	Mon 1/3/21 NA	NA 373 NA 377,148,407	378 380FS-39 days,382,381,37	-319 days	1	0%		-	
79 CBR-7000	,	Additional diversion of DN600 tank drain pipes between BR2A & 2B	204	0 days	NA	NA	131 days 1 day?	Mon 18/11/19	Mon 18/11/19	NA	NA 377,146,407 NA	360FS-39 0ays,362,361,37	2558 days?	5	0%		-	
80 CBR-8000 81 CBR-9000		Sheetpile Installation (3000sq.m, 1rigs, 50sqm/rig/day) Pile Load Test		60 days 26 days	Wed 8/9/21 Wed 8/9/21	Fri 19/11/21 Tue 19/1/21	60 days 26 days	Sat 21/8/21 Fri 8/10/21	Tue 2/11/21 Mon 8/11/21	NA NA	NA 378FS-39 days,149 NA 378	382 382	-314 days -319 days		0%		-	1
82 CBR-1000	00	ELS works (18100cu.m soil with 4 layers wailing / strutting)		125 days	Mon 20/12/21	Fri 27/5/22	140 days	Tue 9/11/21	Tue 3/5/22	NA	NA 378,380,151,381,144	383,384	-319 days	3	0%			
83 CBR-1100 84	KD1E KD1E	R.C. Structure works Additional plugging works and end wall construction	152	180 days 0 days	Sat 28/5/22 NA	Sat 31/12/22 NA	205 days 90 days	Wed 4/5/22 Wed 4/5/22	Sat 7/1/23 Fri 19/8/22	NA NA	NA 154,196,197,382,200,198 NA 382	390,46FF,387,388,389,391 46FF,385	-319 days 20 days	5	0%		-	
85	KD1E	Additional backfill works after end wall construction at BR2 common channel	172	0 days	NA	NA	90 days	Sat 20/8/22	Tue 6/12/22	NA	NA 384	46FF	20 days		0%			
86 CBR-1200		Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Sat 31/12/22	Sat 31/12/22	0 days	Mon 18/11/19	Mon 18/11/19	NA	NA	46FF	926 days		0%		•	18/11
87 CBR-1300 88 CBR-1400		Flowmeter no. 2-4 Gate Valve Chamber no. 1-3		180 days 180 days	2023/1/3 2023/1/3	2023/8/12 2023/8/12	195 days 195 days	Mon 9/1/23 Wed 6/9/23	Tue 5/9/23 Tue 14/5/24	NA NA	NA 383 NA 383,387	388 389	-262 days -262 days		0%		-	
89 CBR-1500 90 CBR-1600		Plug Valve Chamber no.1-2 ABWF works + BS works		180 days 180 days	2023/1/3 Tue 3/1/23	2023/8/12 Sat 12/8/23	195 days 180 days	Thu 16/5/24 Mon 9/1/23	Mon 6/1/25 Fri 18/8/23	NA NA	NA 383,388 NA 383,199,157	56FF 56FF	-262 days 143 days		0%			
91 CBR-1700		Process Pipe CHQ chainage 65-170, CHP chainage 60-130, CHO chainage 65-140, CHL chainage 0-35 & CHK chianage 0-50		0 days	NA	NA	180 days	Mon 9/1/23	Fri 18/8/23	NA	NA 383	57FF	-319 days		0%		-	
92 CMF-0000	D *	Membrane Facilities Building, B-5		941 days	Mon 6/1/20	Thu 9/3/23	1160 days	Mon 18/11/19	Tue 17/10/23	Mon 18/11/19	NA 2		1399 days		34%	MFB	н н	
93 94 CMF-1000	0	Operation of existing Final Sedimentation Tanks no.3 & 4 Demolition of existing final sedimentation tanks no. 3 & 4	26	0 days 14 days	NA Mon 6/1/20	NA Tue 21/1/20	98 days 344 days	Mon 18/11/19 Mon 6/1/20	Tue 17/3/20 Thu 4/3/21	Mon 18/11/19 Mon 6/1/20	Tue 17/3/20 2 NA 176,138,10		0 days 2176 days		100% 98%			_
95 CMF-1100	0	Confirmation of Decommission Schedule	68 30	0 days	NA	NA	58 days	Mon 6/1/20	Mon 16/3/20	Mon 6/1/20	Mon 16/3/20	396	0 days		100%	MFB	-	
96 CMF-1200 97 CMF-1205		Provision of new submersed pump Assistant to decommissioning of Final Sedimentation Tank No. 3 and 4	68 26 68 7	0 days 0 days	NA	NA	27 days 14 days	Wed 4/3/20 Wed 4/3/20	Fri 3/4/20 Fri 3/4/20	Wed 4/3/20 Wed 4/3/20	Fri 3/4/20 395 Fri 3/4/20 396	397 398	0 days 0 days		100%			
98 CMF-1300		Additional dismantling works to retain specified electrical and mechanical equipment		0 days	NA	NA	21 days	Tue 7/4/20	Wed 6/5/20	Tue 7/4/20	Wed 6/5/20 397	399	0 days		100%			
99 CMF-1400	0	Additional pluging works for DN 1200 Conc. S&S pipe at wash water	76, 77, 144 015	0 days	NA	NA	70 days	Mon 8/6/20	Sat 29/8/20	Mon 8/6/20	Sat 29/8/20 398	400	0 days		100%	MFB	-	-
00 CMF-1500	0	pumping station chamber Diversion of wash water main	76, 77 032	0 days	NA	NA	21 days	Mon 15/6/20	Fri 10/7/20	Mon 15/6/20	Fri 10/7/20 399	401	0 days		100%	MFB		
01 CMF-1600 02 CMF-1710	0		76, 77 035 043	0 days	NA	NA	40 days	Mon 1/6/20	Sat 18/7/20 Thu 4/3/21	Mon 1/6/20 NA	Sat 18/7/20 400	405	0 days 2176 days		100%	MFB	1	
02 CMF-1710 03 CMF-1800		Exposed and disconnet uncharted existing cable between FST3 and FST		0 days 0 days	NA	NA	10 days 20 days	Mon 22/2/21 Thu 2/7/20	Thu 4/3/21 Fri 24/7/20	NA Thu 2/7/20	NA Fri 24/7/20		0 days		0%		-	
04 CMF-1110	0	4 Demolition of structure no. 3 & 4	68, 75, 76,	14 days	Mon 6/1/20	Tue 21/1/20	122 days	Wed 1/4/20	Sat 29/8/20	Wed 1/4/20	Sat 29/8/20	406	0 days		100%	MFB	-	
05 CMF-1900			212 060		NA	NA		Mon 31/8/20	Fri 25/9/20	Mon 31/8/20	Fri 25/9/20 401	407	0 days		100%		_	
06 CMF-2000	D C	Predrilling (83nrs, 4rigs, 2.5days/drillhole/rig)	144, 212	0 days 42 days	Sat 6/6/20	Mon 27/7/20	23 days 31 days	Mon 10/8/20	Mon 14/9/20	Mon 10/8/20	Mon 14/9/20 143,404	407	0 days	1	100%	MFB	-	
07 CMF-3000	0	Pre-bored H piles (171nos, 2rigs, 1.5days/pile/rig) [Extended working hours 0700-1900 & shortern pile length]	212, 308, 309	140 days	Tue 28/7/20	Wed 13/1/21	96 days	Mon 28/9/20	Sat 23/1/21	Mon 28/9/20	Sat 23/1/21 406,148,405	378,408,409	0 days	5	100%	MFB		
08 CMF-3100		Change of Layout of Basement of MFB no. 2 Pile Load Test	102	0 days 25 days	NA Thu 14/1/21	NA Tue 16/2/21	17 days	Tue 3/11/20 Mon 4/1/21	Sat 21/11/20 Mon 25/1/21	Tue 3/11/20 Mon 4/1/21	Sat 21/11/20 407 Mon 25/1/21 407	413	0 days		100%		-	1
10 CMF-5000	D C	Pile Load Test Installation of sheetpile [with pre-boring]	112	25 days 40 days	Thu 14/1/21 Wed 22/1/20	Wed 11/3/20	19 days 100 days	Mon 4/1/21 Wed 30/12/20	Tue 4/5/21	Mon 4/1/21 Wed 30/12/20	NA	413 413	0 days -121 days		0%	MFB		1
11 CMF-6000		ELS works Pharse A (A1 to N6) - Excavation to -11mPD and blinding	112 45	169 days 169 days		Thu 9/9/21 Thu 9/9/21	234 days 234 days	Wed 5/5/21 Wed 5/5/21	Tue 15/2/22 Tue 15/2/22	NA NA	NA 10 NA	415SS	-121 days	5	0%		-	1
13 CMF-6110		Soil Excavation (Extended working hours 0700-1900 & reduction of excavation volume)		169 days	Wed 17/2/21	Thu 9/9/21	88 days	Wed 5/5/21	Wed 18/8/21	NA	NA 410,151,409	414	-121 days		0%		-	1
14 CMF-6120	0	Additional Rock Excavation [2200 cu.m, 7.5cu.m/group x 2]	112	0 days	NA	NA	146 days	Thu 19/8/21	Tue 15/2/22	NA	NA 413	417	-121 days		0%	MFB	-	1
15 CMF-6200		Pharse B (A6 to N10) - Excavation to -1.9mPD and blinding RC Structure works		169 days 232 days		Thu 9/9/21 Sat 25/6/22	100 days 262 days	Wed 5/5/21 Tue 15/3/22	Wed 1/9/21 Thu 2/2/23	NA NA	NA 412SS NA 10	418,424	43 days -144 days	5	0% <b>0</b> %		-	
16 CMF-7000		RC Structure works Phase A - from B2 - Level 1		232 days 112 days		Sat 25/6/22 Tue 25/1/22	112 days	Tue 15/3/22 Tue 15/3/22	Thu 2/2/23 Mon 1/8/22	NA	NA 155,196,197,200,198,414	418SS+30 days,419,421	-144 days -144 days	3	0%			1
18 CMF-7110		Phase B - from B1 - Level 1 Phase A - from Level 1 to Roof		112 days 120 days	Fri 10/9/21 Wed 26/1/22	Tue 25/1/22 Sat 25/6/22	112 days 120 days	Sat 23/4/22 Tue 2/8/22	Mon 5/9/22 Thu 22/12/22	NA	NA 417SS+30 days,415 NA 417	420,421 422,423	-144 days -114 days		0%			
	0 KD1G	Phase B - from Level 1 to Roof		120 days	Wed 26/1/22	Sat 25/6/22	120 days	Tue 6/9/22	Thu 2/2/23	NA	NA 418	422,423	-144 days		0%	MFB	-	
20 CMF-7130		Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Tue 25/1/22	Tue 25/1/22	0 days	Mon 5/9/22	Mon 5/9/22	NA	NA 417,418	47FF	-142 days		0%	мнв		
20 CMF-7130 21 CMF-8000	0 KD1F	(from B2-level 1)																1
		(from B2-level 1) Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from Level to Roof)		0 days	Sat 25/6/22	Sat 25/6/22	0 days	Thu 2/2/23	Thu 2/2/23	NA	NA 419,420	48FF	-144 days		0%	MFB	-	1



	fluent P	olishing Pla	lant - Main Works Stage 1										Revised Works Programme (Status Dat	te: 28/02/2021)			
Activity I	D K	ey Tasi ate	sk Name CE for Incleme	ent	E/ECE/PN	VI Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	Actual Start Ac	tual Finish Predecessors	Successors	Total Slack	Risk Allowance % Complete	Individual Critical Path uarter
CMF-100			ABWF works + BS works	er		210 days	Mon 27/6/22	Thu 9/3/23	210 days	Fri 3/2/23	Tue 17/10/23	NA	NA 199,157,419,420	56FF	94 days	0%	April MFB
CMF-110	000 S	W2	Process Pipe CHQ chainage 0-65, CHM chainage 0-120, CHN chainage 0-125, CHO chainage 0-65, CHP chainage 0-60 & CHV chaiange 0-50			0 days	NA	NA	176 days	Thu 2/9/21	Wed 6/4/22	NA	NA 415	57FF	85 days	0%	MFB
CSA-000	* 00	5	SAS Pumping Station, B-6			455 days	Wed 20/5/20	Thu 25/11/21	1148 days	Sat 18/4/20	Thu 29/2/24	Sat 18/4/20	NA 11		-15 days	51%	
CSA-100 CSA-110			Additional Preliminary Works Diversion of Existing SAS Rising Main near SAS Pumping Station (PPMI 68, 75,	76	69	0 days 0 days	NA	NA	390 days 170 days	Tue 12/5/20 Tue 9/6/20	Mon 30/8/21 Thu 31/12/20	Tue 12/5/20 Tue 9/6/20	NA Thu 31/12/20	440	41 days 0 days	68%	
			025)														
CSA-120	00		Decommission of exisiting power and signal systems in leachate Pump station switch room (PPMI 039) 310	9,	74	0 days	NA	NA	58 days	Mon 21/9/20	Mon 30/11/20	Mon 21/9/20	Mon 30/11/20 162	440	0 days	100%	
CSA-130	00		Construction of Cable trough for CLP 11kv Cable Diversion (PPMI 041) 75, 76, 144, 21	77,	61	0 days	NA	NA	91 days	Tue 12/5/20	Thu 31/12/20	Tue 12/5/20	Thu 31/12/20 164	440	0 days	100%	
			144, 21 309, 31														
CSA-140	00		Demolition of Existing Pillar box and its concrete plinth (PPMI 014) 144, 21	2, 309	30	0 days	NA	NA	53 days	Wed 12/8/20	Sat 14/11/20	Wed 12/8/20	Sat 14/11/20 165	440	0 days	100%	
CSA-150	00		Excavation to locate existing underground cble near SAS Pump Station		78	0 days	NA	NA	59 days	Wed 17/6/20	Sat 21/11/20	Wed 17/6/20	Sat 21/11/20 166	440	0 days	100%	
CSA-160	00		Diversion of Existing DN80 Permeate Rising Main near SAS Pumping		89	0 days	NA	NA	72 days	Tue 6/10/20	Thu 31/12/20	Tue 6/10/20	Thu 31/12/20	440	0 days	100%	
CSA-180	00		Trench Excavation near SAS for diversion of 11kV cable by CLP 309, 31	0	97	0 days	NA	NA	53 days	Mon 12/10/20	Sat 12/12/20	Mon 12/10/20	Sat 12/12/20	440	0 days	100%	
CSA-170			Relocation of Oil Interceptor Near Existing Compressor House 144, 21	2, 309	70	0 days	NA	NA	125 days	Mon 3/8/20	Thu 31/12/20	Mon 3/8/20	Thu 31/12/20	440	0 days	100%	
CSA-190 CSA-191			Diversion of pumping system sewerage 212, 30 Diversion of Existing copper pipe near proposed SAS pumping station 309, 31		83 225	,-	NA	NA	81 days 61 days	Wed 23/9/20 Mon 19/10/20	Thu 31/12/20 Thu 31/12/20	Wed 23/9/20 Mon 19/10/20	Thu 31/12/20 167 Thu 31/12/20 435	442,440,436	0 days 0 days	100%	
CSA-192			Pipework of proposed SAS Pumping Station - 13 nos. of puddles		221	0 days	NA	NA	180 days	Mon 7/12/20	Mon 19/7/21	NA	NA	444SS+30 days	42 days	0%	
CSA-193 CSA-200			Additional Sewage Rising main for SAS Predrilling (4nrs, 1rig, 4days/drillhole/rig) 68		220	0 days 16 days	NA Wed 20/5/20	NA Sat 6/6/20	215 days 7 days	Tue 8/12/20 Sat 18/4/20	Mon 30/8/21 Sat 25/4/20	NA Sat 18/4/20	NA Sat 25/4/20 143	444SS+30 days 348.440	41 days 0 days	0%	
CSA-300			Pre-bored H piles (12nos, 1rigs, 4days/pile/rig)			60 days	Mon 8/6/20	Tue 18/8/20	19 days	Mon 18/1/21	Mon 8/2/21	Mon 18/1/21	Mon 8/2/21 148,439,164,429,427,428,430,431,4	1.10	0 days	2 100%	
CSA-400 CSA-500			Pile Load Test Sheetpile Installation (FSP-II, 690sg.m, 40sgm/day)			21 days	Wed 19/8/20 Wed 19/8/20	Thu 17/9/20 Sat 19/9/20	26 days	Tue 9/2/21 Mon 15/3/21	Sat 13/3/21 Mon 19/4/21	NA	NA 440 NA 149,441,435	443,442 443	-109 days -109 days	0%	
CSA-500 CSA-600			ELS works (1300cu.m soil with 2 layers wailing / strutting)			28 days 75 days	Mon 21/9/20	Wed 19/2/20	28 days 75 days	Tue 20/4/21	Tue 20/7/21	NA	NA 442,151,441,144	444	-109 days -109 days	2 0%	
CSA-700			R.C. Structure works			186 days	Mon 21/12/20	Mon 9/8/21	186 days	Wed 21/7/21	Fri 4/3/22	NA	NA 156,196,197,443,200,198,437SS+3		-109 days	5 0%	
CSA-800 CSA-900			Allow access to Contractor DE/2018/03 for E&M installation and T&C works ABWF works + BS works		-	0 days 90 days	Mon 9/8/21 Tue 10/8/21	Mon 9/8/21 Thu 25/11/21	0 days 90 days	Fri 4/3/22 Fri 10/11/23	Fri 4/3/22 Thu 29/2/24	NA	NA 444 NA 444,199,157,496SS	49FF 56FF	-109 days -15 days	0%	
CAS-000		1	Ancillary Structures, B-7			503 days	Mon 7/9/20	Sat 21/5/22	980 days	Mon 9/11/20	Thu 29/2/24	NA	NA 12	170.4.17.177	-260 days	0%	
CAS-100	00		Demolition of Existing Faciliates and Structures (leachate pump pit & pumping station)			120 days	Mon 7/9/20	Sat 30/1/21	120 days	Mon 9/11/20	Wed 7/4/21	NA	NA 138,176,178	473,449,485,491,458	-260 days	0%	
CFS-100			Fire Services Sprinkler Pumping Room (12)			220 days	Sat 10/4/21	Sun 3/1/21	860 days	Thu 8/4/21	Thu 29/2/24	NA	NA 448		-260 days	0%	
CDS-100 CDS-110			Demolition of Existing Leachate Pump Pit Provision of Flowmeter chamber, gate valve chamber and associated		241 85	0 days 0 days	NA	NA	50 days 50 days	Thu 8/4/21 Tue 8/6/21	Mon 7/6/21 Fri 6/8/21	NA	NA NA 450	451 452	-260 days -260 days	0%	
			seweage														
CDS-120	00		Identify and Decommission the power, signal and instrumentation systems of SSSH pump		86	0 days	NA	NA	50 days	Sat 7/8/21	Wed 6/10/21	NA	NA 451	453	-260 days	0%	
CFS-200			Excavation for Raft Footing (800cu.m)			45 days	Sat 10/4/21	Thu 3/6/21	60 days	Thu 7/10/21	Thu 16/12/21	NA	NA 144,452	454,486,459	-260 days	0%	
CFS-300 CFS-400		D1.I	Plate load test B.C. structure works		_	14 days 60 days	Fri 4/6/21 Tue 6/7/21	Mon 21/6/21 Mon 13/9/21	14 days 60 days	Fri 17/12/21 Thu 6/1/22	Wed 5/1/22 Sat 19/3/22	NA	NA 453 NA 454	455 457,456,51FF	-36 days -36 days	2 0%	
CFS-500			Allow access to Contractor DE/2018/04 for E&M installation and T&C		-	0 days	Mon 13/9/21	Mon 13/9/21	0 days	Sat 19/3/22	Sat 19/3/22	NA	NA 455	51FF	-36 days	0%	
CFS-600	10 S	W1	ABWF works + BS works		_	90 days	Tue 14/9/21	Mon 3/1/22	90 days	Fri 10/11/23	Thu 29/2/24	NA	NA 199,157,455,496SS	56FF	-15 days	0%	
CEG-00			Emergency Generator House (11)			163 days	Wed 6/10/21	Tue 26/4/22	650 days	Fri 17/12/21	Thu 29/2/24	NA	NA 448		-260 days	0%	
CEG-10			Excavation for Raft Footing (100cu.m)			20 days	Wed 6/10/21	Fri 29/10/21	20 days	Fri 17/12/21	Wed 12/1/22	NA	NA 144,453 NA 459	460 461	-260 days	0%	
CEG-200 CEG-300		D1J	Plate load test R.C. structure works			14 days 30 days	Sat 30/10/21 Fri 26/11/21	Mon 15/11/21 Mon 3/1/22	14 days 30 days	Thu 13/1/22 Sat 29/1/22	Fri 28/1/22 Tue 8/3/22	NA	NA 459 NA 460	461 462,51FF,463,465	-260 days -260 days	1 0%	
CEG-400	00 K	D1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Mon 3/1/22	Mon 3/1/22	0 days	Tue 8/3/22	Tue 8/3/22	NA	NA 461	51FF	-26 days	0%	
CEG-50	00 S	W1	ABWF works + BS works		_	90 days	Tue 4/1/22	Tue 26/4/22	90 days	Fri 10/11/23	Thu 29/2/24	NA	NA 199,157,461,496SS	56FF	-15 days	0%	
CCS-100	• 00		Chemical System No.1 (10)			168 days	Mon 1/2/21	Thu 26/8/21	586 days	Wed 9/3/22	Thu 29/2/24	NA	NA		-260 days	0%	
CCS-110 CCS-111			Excavation for Raft Footing (20cu.m) Diversion of Leachate Rising Main near SSSH		241	10 days 0 days	Mon 1/2/21 NA	Thu 11/2/21	10 days 30 days	Wed 9/3/22 Mon 21/3/22	Sat 19/3/22 Thu 28/4/22	NA	NA 144,461 NA 465	466,474 467	-260 days -260 days	0%	
CCS-120	00		Plate load test			14 days	Tue 16/2/21	Wed 3/3/21	14 days	Fri 29/4/22	Tue 17/5/22	NA	NA 466	468	-260 days	0%	
CCS-130 CCS-131		D1J	R.C. structure works Construction of Flowmeter chamber, gate valve chamber and associated		085	45 days 0 days	Mon 15/3/21 NA	Mon 10/5/21	60 days 60 days	Wed 18/5/22 Fri 29/7/22	Thu 28/7/22 Mon 10/10/22	NA	NA 467 NA 468	51FF,472,469 470	-260 days -260 days	2 0%	
			sewerage														
CCS-131 CCS-140		D1J	Demolition of SSSH Pump Pit and Associated Sewerage System Allow access to Contractor DE/2018/04 for E&M installation and T&C		086	0 days 0 days	NA Mon 10/5/21	NA Mon 10/5/21	60 days 0 days	Tue 11/10/22 Mon 19/12/22	Mon 19/12/22 Mon 19/12/22	NA	NA 469 NA 470	471 51FF	-260 days -260 days	0%	
			works														
CCS-150 CCS-200		W1	ABWF works + BS works Chemical System No.2 (13)		_	90 days 189 days	Tue 11/5/21 Thu 4/3/21	Thu 26/8/21 Thu 21/10/21	90 days 576 days	Fri 10/11/23 Mon 21/3/22	Thu 29/2/24 Thu 29/2/24	NA NA	NA 199,157,468,496SS NA 448	56FF	-15 days -130 days	0%	
CCS-210			Excavation for Raft Footing (100cu.m)			15 days	Thu 4/3/21	Sat 20/3/21	30 days	Mon 21/3/22	Thu 28/4/22	NA	NA 144,465	475,481	-130 days	0%	
CCS-220 CCS-230		D1.I	Plate load test B.C. structure works			14 days 45 days	Mon 22/3/21 Tue 11/5/21	Fri 9/4/21 Mon 5/7/21	14 days 45 days	Fri 29/4/22 Wed 18/5/22	Tue 17/5/22 Mon 11/7/22	NA	NA 474 NA 475	476 477,51FF,478,479	-125 days -125 days	2 0%	
CCS-240			Allow access to Contractor DE/2018/04 for E&M installation and T&C			0 days	Mon 5/7/21	Mon 5/7/21	0 days	Mon 11/7/22	Mon 11/7/22	NA	NA 475	51FF	-125 days	0%	
CCS-250	00 ~	W1	Works		_	90 days	Tue 6/7/04	Thu 21/10/21		Fri 10/11/23	Thu 29/2/24	NA	NA 199,157,476,496SS	56FF	-15 down	0%	
CCS-250			ABWF works + BS works Demolition of existing chemical room		-	90 days 60 days	Tue 6/7/21 Tue 6/7/21	Mon 13/9/21	90 days 60 days	Fri 10/11/23 Tue 12/7/22	Thu 29/2/24 Tue 20/9/22	NA	NA 199,157,476,496SS NA 476	56FF 56FF	-15 days 412 days	0%	
CDS-000	• 00		Deodorization System No.3A (8)			149 days	Tue 16/11/21	Sat 21/5/22	64 days	Fri 29/4/22	Sat 16/7/22	NA	NA NA ATA	100	-130 days	0%	
CDS-200 CDS-300			Excavation for Raft Footing (400cu.m) Plate load test		_	20 days 14 days	Tue 16/11/21 Thu 9/12/21	Wed 8/12/21 Fri 24/12/21	20 days 14 days	Fri 29/4/22 Wed 25/5/22	Tue 24/5/22 Fri 10/6/22	NA	NA 144,474 NA 481	482 483	-130 days -130 days	0%	
CDS-400	00 K		Footing works			20 days	Tue 4/1/22	Wed 26/1/22	30 days	Sat 11/6/22	Sat 16/7/22	NA	NA 482	484,51FF	-130 days	0%	
CDS-500	00 K	D1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Wed 26/1/22	Wed 26/1/22	0 days	Sat 16/7/22	Sat 16/7/22	NA	NA 483	51FF	-130 days	0%	
CTC-000			Temporary Chemical Dosing System (5)			191 days	Tue 22/6/21	Thu 10/2/22	650 days	Fri 17/12/21	Thu 29/2/24	NA	NA 448		-51 days	0%	
CTC-100 CTC-200			Excavation for Raft Footing (300cu.m) Plate load test			30 days 14 days	Tue 22/6/21 Wed 28/7/21	Tue 27/7/21 Thu 12/8/21	30 days 14 days	Fri 17/12/21 Tue 25/1/22	Mon 24/1/22 Sat 12/2/22	NA	NA 144,453 NA 486	487 488	-51 days -51 days	0%	
CTC-300	00 K		R.C. structure works			30 days	Tue 14/9/21	Thu 21/10/21	45 days	Mon 14/2/22	Thu 7/4/22	NA	NA 487	489,51FF,490	-51 days	1 0%	
CTC-400	00 K	D1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Thu 21/10/21	Thu 21/10/21	0 days	Thu 7/4/22	Thu 7/4/22	NA	NA 488	51FF	-51 days	0%	
CTC-500		W1	ABWF works + BS works			90 days	Fri 22/10/21	Thu 10/2/22	90 days	Fri 10/11/23	Thu 29/2/24	NA	NA 199,157,488,496SS	56FF	-15 days	0%	
CFB-000			Fire Hydrant and Booster Pump Room (19)			177 days 30 days	Fri 13/8/21	Thu 17/3/22 Thu 16/9/21	164 days	Sat 12/8/23 Sat 12/8/23	Thu 29/2/24 Fri 15/9/23	NA	NA 448 NA 144,340	493	-522 days	0%	
CFB-100 CFB-200			Excavation for Raft Footing (200cu.m) Plate load test		-	30 days 14 days	Fri 13/8/21 Fri 17/9/21	Thu 16/9/21 Tue 5/10/21	30 days 14 days	Sat 12/8/23 Sat 16/9/23	Fri 15/9/23 Wed 4/10/23	NA	NA 144,340 NA 492	493 494	-522 days -522 days	0%	
CFB-300	00 K		R.C. structure works			30 days	Fri 22/10/21	Thu 25/11/21	30 days	Thu 5/10/23	Thu 9/11/23	NA	NA 493	495,496,51FF	-522 days	1 0%	
CFB-400	JU K	513	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Thu 25/11/21	Thu 25/11/21	0 days	Thu 9/11/23	Thu 9/11/23	NA	NA 494	51FF	-522 days	0%	
CFB-500		W1	ABWF works + BS works			90 days	Fri 26/11/21	Thu 17/3/22	90 days	Fri 10/11/23	Thu 29/2/24	NA	NA 494,199,157	56FF,463SS,490SS,457S		0%	
CDS1-00 CDS1-10			Deodorization System No.1 (6) Excavation for Raft Footing (400cu.m)			64 days 20 days	NA	NA NA	64 days 20 days	Sat 12/8/23 Sat 12/8/23	Sat 28/10/23 Mon 4/9/23	NA NA	NA 340	499	-512 days -512 days	0%	
CDS1-20	000		Plate load test			14 days	NA	NA	14 days	Tue 5/9/23	Wed 20/9/23	NA	NA 498	500	-512 days	0%	
CDS1-30 CDS1-40			Footing works Allow access to Contractor DE/2018/04 for E&M installation and T&C			30 days 0 days	NA	NA	30 days 0 days	Thu 21/9/23 Sat 28/10/23	Sat 28/10/23 Sat 28/10/23	NA NA	NA 499 NA 500	501 51FF	-512 days -512 days	0%	
			works														
CAA-000	00 *	1	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)			662 days	Wed 29/1/20	Fri 22/4/22	918 days	Mon 1/6/20	Thu 6/7/23	Mon 1/6/20	NA		1485 days	41%	
CAA-100	00 K	D2B	B-8A Alternation works for existing Air Blower House No.2 (Pipeline			180 days	Wed 29/1/20	Thu 3/9/20	320 days	Mon 1/6/20	Mon 28/6/21	Mon 1/6/20	NA 15,158,194	53FF	0 days	53%	
CAA-110	00		CHTA, approx. 133m DN800 D.I.) Change of pipe bridge design	057	_	0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/20	507,508,509	0 days	100%	
CAA-110 CAA-120			Additional inspection pit to veriify the connection point to existing (CE	007		0 days 0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/20	507,508,509	0 days 0 days	100%	
			XXX)					NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/20	507,508,509	0 days	100%	
CAA-130	00		Additional MBV installation (CE xxx)			0 days	NA										



ntract No. DC ek Wu Hui Eff		Plant - Main Works Stage 1											Revised Works Programme (Status Date:	28/02/2021)								
Activity II	ID Key Ta Date	sk Name	CE for Inclement Weather		Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance	% Complete Individual Critical Path	uarter Aoril Janua	1st Quarter	3rd Quarter	1st Quarter January October	3rd Quarter
07 CAA-140	400	Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)	Wedditer		180 days	Wed 29/1/20	Thu 3/9/20	185 days	Wed 11/11/20	Mon 28/6/21	Wed 11/11/20	N	A 504,505,506	53FF	-74 days		9%			July Phil		
18 CAA-150	500 KD2B	Re-alignmnet of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases		064	0 days	NA	NA	185 days	Wed 11/11/20	Mon 28/6/21	Wed 11/11/20	N	A 504,505,506	53FF	-74 days		9%				1	
19 CAA-160	600 KD2B	Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2 (PPMI 044)	0	017 062	0 days	NA	NA	60 days	Wed 11/11/20	Fri 22/1/21	NA	N	A 504,505,506	53FF	51 days		0%				1	
0 CAA-200	000 KD11	B7-A Alternation works for exisiting Power House			122 days	Fri 4/9/20	Sat 30/1/21	120 days	Fri 4/9/20	Thu 28/1/21	Fri 4/9/20	Thu 28/1/2	1 13FS-1 day,138,176,178,186	50FF.511	0 days		100%	-l i			1	
1 CAA-210		Additional works for Power House			0 days	NA	NA	60 days	Fri 29/1/21	Thu 15/4/21	NA NA		A 510	0011,011	2143 days		0%				I	1
2 CAA-300		Alternation works for existing Membrane Facilities Building No.1				Mon 1/2/21	Fri 22/4/22	360 days	Tue 19/4/22	Thu 6/7/23	NA		A 14FS-1 day.185	58FF	269 days		0%	- 1			1	1
3 CUU-000		External Underground Service, Utilities, Road/Drain				Mon 24/2/20	Sat 28/10/23	1041 days	Mon 27/4/20	Sat 28/10/23			A 16	0011	1390 days		11%					
4 CUU-100		Process Pipes CHB and CHS (approx. 93m twin DN900 D.I.)				Mon 24/2/20	Sat 27/3/21	272 days	Mon 27/4/20	Wed 4/8/21			A 194.158	526SS+48 days.524SS			27%		1 0000000000000000000000000000000000000	5		1
5 CUU-100		Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall for trenching work of Process Pipeline CHR and CHS			0 days	NA	NA	54 days	Sat 30/5/20	Mon 3/8/20				02000110 0000,02100	0 days		100%				'   	
6 CUU-100	000b	Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPMI 040)	)	255	0 days	NA	NA	60 days	Mon 21/12/20	Sat 6/3/21	NA	N	4	52FF	82 days		0%				1	
7 CUU-100	001	Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area	1	033	0 days	NA	NA	43 days	Thu 2/7/20	Thu 20/8/20	Thu 2/7/20	Thu 20/8/2	D		0 days		100%		-		1 1	 
8 CUU-100	002	Grouting for Sheung Shui Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 064)			0 days	NA	NA	20 days	Fri 23/10/20	Mon 16/11/20	Fri 23/10/20	N	4		0 days		84%				I I	l
9 CUU-100	003	Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH	0	080	0 days	NA	NA	30 days	Thu 31/12/20	Thu 4/2/21	NA	N	4		2197 days		0%		=		1	
0 CUU-100	004	Delay Delivery of DI pipes due to COVID-19	0	076	0 days	NA	NA	40 days	Tue 22/12/20	Tue 9/2/21	NA	N	A	522FF	426 days		0%	-				1
1 CUU-100	005	Change alignment and fittings for CHDO1 and CHDO2	0	074	0 days	NA	NA	78 days	Fri 4/12/20	Thu 11/3/21		N	4	522FF	403 days		0%	- i			i I	i.
2 CUU-200	000 SW2	Process Pipes, including CHT, CHX, CHY, CHPS1&2, CHS S1&2, CHDO 1&2, CHPSW 1-8, CHTPS, CHPT1&2, CHTFT 1&2, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe			550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	N	A 194,514SS+48 days,158,520FF,521FF	57FF,527	63 days		8%				 	
3 CUU-300	000 SW2	Drainage			550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	N	A 194,514SS+48 days,158	57FF,527	63 days	5	8%	1 :			1	
4 CUU-400	000 SW2	Sewerage			550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	N	A 514SS+48 days,194,158	57FF,527	63 days	5	8%	1 i i			i I	i.
5 CUU-500	000 SW2	Waterworks			550 days	Mon 29/6/20	Fri 6/5/22	542 days	Mon 19/10/20	Wed 17/8/22	Mon 19/10/20	N	A 514SS+48 days,194,158	529FS+2 days,57FF	-22 days	5	7%	1	annanna		I	1
6 CUU-600	000 SW2	Cable Ducts			550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	N	A 514SS+48 days,194,158	527,57FF	63 days	5	8%	1 !			1	1
7 CUU-700	000 KD3A	Roadworks			540 days	Fri 31/12/21	Sat 28/10/23	440 days	Sat 7/5/22	Sat 28/10/23	NA	N	A 526,523,524,522	54FF	64 days	5	0%	1				1
8 CLW-00	* 000	Landscaping Works			854 days	Wed 11/5/22	Thu 27/3/25	794 days	Sat 20/8/22	Fri 25/4/25	NA	N	A 16		37 days		0%				1	
9 CLW-100	000 SW3	Irrigation System			120 days	Wed 11/5/22	Fri 30/9/22	120 days	Sat 20/8/22	Fri 13/1/23	NA	N	A 525FS+2 days,194	530,58FF	37 days		0%					i
0 CLW-200	2000 SW3	Hard Landscaping Works			220 days	Mon 3/10/22	Mon 3/7/23	185 days	Sat 14/1/23	Wed 30/8/23	NA	N	A 529,159	531,58FF	37 days	5	0%		I I		1	1
1 CLW-300	000 SW3	Soft Landscaping Works			220 days	Tue 4/7/23	Tue 26/3/24	185 days	Thu 31/8/23	Thu 25/4/24	NA	N	A 530,159	532,58FF	37 days	5	0%	1	I I			1
2 CLW-400	000 DLP	Establishment Works (365 days)	-		294 days	Wed 27/3/24	Thu 27/3/25	365 days	Fri 26/4/24	Fri 25/4/25	NA	N	A 531,159	59FF.60FF	1108 days	5	0%		1 1			

Summary Critical

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Activity ID	Activity Name	Origina Duratior		Early Finish	Late Start	Late Finish	Total 9 2020 2021 Float J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M 
SWH - Main	Works Stage 1 Sidestream Treatment Facilities & E&M Works for Sl	udge Tre	eatment Fa	cilities			
Contract Da							Remarks: The Defect Date is 4 Apr 2025 (365 days after
Starting Date 8	& Completion Date						
AS000010	Contract Date (LOA)	C	11-Oct-19A		21-Feb-21		
AS000020	Starting Date	C	23-Oct-19A		21-Feb-21		
AS000110	Whole Contract Period (1626 days from starting date)	1626	23-Oct-19 A	04-Apr-24	21-Feb-21	04-Apr-24	0
AS000220	Completion Date for the whole of the Works	C	)	04-Apr-24		04-Apr-24	0
Access Date	Desting $O(10/(10^{10}))$ (0.0 to EEO days from starting data)	550	00.0+10.4	04 Apr 01	01 Eab 01	04 Arr 01	
AS001100	Portion C-1A (within 480 to 550 days from starting date)	550	23-Oct-19 A	24-Apr-21	21-Feb-21	24-Apr-21	0
AS001120	Planned Access Date for Portion C-1A	1	24-Apr-21	24-Apr-21*	24-Apr-21	24-Apr-21	0
AS001200	Portion C-2A (within 705 to 795 days from starting date)	795	5 23-Oct-19 A	25-Dec-21	21-Feb-21	25-Dec-21	0
AS001220	Planned Access Date for Portion C-2A	1	25-Dec-21	25-Dec-21*	25-Dec-21	25-Dec-21	0
AS001220	Portion C-2B (within 765 to 855 days from starting date)	855	23-Oct-19A	23-Feb-22	21-Feb-21		
AS001320	Planned Access Date for Portion C-2B		23-Feb-22	23-Feb-22*	23-Feb-22		
AS001400	Portion C-2C (within 715 to 805 days from starting date)	805	5 23-Oct-19 A	04-Jan-22	21-Feb-21	04-Jan-22	0
AS001420	Planned Access Date for Portion C2-C	1	04-Jan-22	04-Jan-22*	04-Jan-22	04-Jan-22	0
AS001500	Portion C-2D (within 825 to 945 days from starting date)	945	23-Oct-19A	24-May-22	21-Feb-21	24-May-22	0
AS001520	Planned Access Date for Portion C-2D	1	24-May-22	24-May-22*	24-May-22	24-May-22	0
AS001600	Portion C-3 (within 615 to 705 days from starting date)		5 23-Oct-19 A	26-Sep-21	21-Feb-21		
AS001620	Planned Access Date for Portion C-3	1	26-Sep-21	26-Sep-21*	26-Sep-21	26-Sep-21	0
AS001700	Portion B-1 (within 285 to 345 days from starting date)	345	23-Oct-19A	30-Sep-20 A	21-Feb-21	21-Feb-21	
AS001720	Planned Access Date for Portion B-1	1	30-Sep-20 A	30-Sep-20 A	21-Feb-21	21-Feb-21	
AS001800	Portion B-2 (within 615 to 705 days from starting date) (SS by NCE-NCE-219)	705	5 23-Oct-19 A	26-Sep-21	21-Feb-21	26-Sep-21	0
AS001820	Planned Access Date for Portion B-2 (SS by NCE-NCE-219)	1	26-Sep-21	26-Sep-21*	26-Sep-21	26-Sep-21	0
AS001900	Works Area WA1-B (starting date)	1	23-Oct-19 A	23-Oct-19 A	22-Feb-21	22-Feb-21	
AS001910	Planned Access Date for Works Area WA1-B	1	23-Oct-19 A	23-Oct-19 A	22-Feb-21	22-Feb-21	
AS001920	Works Area WA3 (starting date)	1	23-Oct-19 A	23-Oct-19 A	22-Feb-21	22-Feb-21	
AS001930	Planned Access Date for Works Area WA3	1	23-Oct-19 A	23-Oct-19 A	22-Feb-21	22-Feb-21	
Key Dates							
AS002010	KD1A Submission of Civil Requirement Dwgs, Elec. Schematic Dwgs of UV System No.1 and Effluent Pumping Station No.1		23-Oct-19A	05-May-20 A	15-Apr-21	·	
AS002020	KD2A Submission of Civil Requirement Dwgs, Elec. Schematic Dwgs of SD Bldg, SD & DC, CHP Bldg, Workshop No.2, etc.		3 23-Oct-19 A	04-Jun-20 A	09-Jun-21		
AS002040	KD2B Submission of Remaining Civil Requirement Dwgs, Elec. Schematic Dwgs of SD Bldg, SD & DC, CHP Bldg, etc.		23-Oct-19A	15-Jan-21 A	09-Jun-21		
AS002050	KD3A Completion of Phase 1 Commissioning of Sidestream Treatment Facilities (1140d after Portion B-1 Access)		30-Sep-20 A		21-Feb-21		
AS002060	KD5A - Completion of the BS Fittings Installation at CLP Sub-Station at Workshop No. 2 (245d after Portion C-3 Access)	246	6 26-Sep-21	29-May-22*	26-Sep-21	29-May-22	U
Completion Da							
Section 1 - Co AS003100	omplete All Design at UV System No.1 & EP Station No. 1 Contract Duration of Section 1	201	23-Oct-19 A	08-Aug-20 A	04-Apr-24	04-Apr-24	
AS003100	Completion date - Section 1 (290 days after starting date)	291		08-Aug-20 A	0-τ <i>Γ</i> -μ1-24	04-Apr-24	
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File Name: DE/2018/03 RP R7 Layout: DE1803 RP (Feb 2021) -WBS Page 1 of 20

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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	9 JAS					FMAMJ				JASO			3 J A S O N 3 3 3 3 3 3		
Time Risk Al	lowance and Planned Completion				<u> </u>			<u> </u>			<u>-9 - - -</u>		12343	01/1019		<u>, , , , , , , , , , , , , , , , , , , </u>		<u>&lt; &lt; &lt; &lt; </u> <		<u>                                     </u>	12121212	+ 4 4 4
	Time Risk Allowance for Section 1	1	08-Aug-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24					1											
AS003130	Planned Completion for Section 1	0		08-Aug-20 A		04-Apr-24					•											
Section 2 - Co	mplete All Designs (exclude Sec. 1 & 3)																					
	Contract Duration of Section 2	601	23-Oct-19 A	14-Jun-21	21-Feb-21	14-Jun-21	0															
AS003210	Completion date - Section 2 (600 days after starting date)	0		14-Jun-21*		14-Jun-21	0						•									
Time Risk Al	lowance and Planned Completion																					
AS003220	Time Risk Allowance for Section 2	6	28-May-21	02-Jun-21	09-Jun-21	14-Jun-21	12						I									
AS003230	Planned Completion for Section 2	0		14-Jun-21*		14-Jun-21	0						•									
	mplete Design, Construction & T&C for Sidestream Facilities																					
AS003300	Contract Duration of Section 3	1626	23-Oct-19 A	04-Apr-24	21-Feb-21	04-Apr-24	0															
AS003310 Time Risk Al	Completion date - Section 3 (1625 days after starting date)	0		04-Apr-24*		04-Apr-24	0														•	
	Time Risk Allowance for Section 3	26	10-Mar-24	04-Apr-24	10-Mar-24	04-Apr-24	0															
	Planned Completion for Section 3	0		04-Apr-24*		04-Apr-24	0														•	
	mplete Construction & T&C for UV System No.1 & EP Station No. 1			•		•																
AS003400		886	23-Oct-19 A	26-Mar-22	21-Feb-21	26-Mar-22	0															
AS003410	Completion date - Section 4 (885 days after starting date)	0		26-Mar-22*		26-Mar-22	0									•						
	lowance and Planned Completion																					
	Time Risk Allowance for Section 4	14	13-Mar-22	26-Mar-22	13-Mar-22	26-Mar-22	0								1							
	Planned Completion for Section 4	0		26-Mar-22*		26-Mar-22	0									•						
	mplete all remaining Works (incl. T&C)							<b>.</b>														
AS003500	Contract Duration of Section 5			04-Apr-24	21-Feb-21	· · · · · · · · · · · · · · · · · · ·	0															
	Completion date - Section 5 (1625 days after starting date)	0		04-Apr-24*		04-Apr-24	0														•	
	Iowance and Planned Completion		10.14 01	21.4 21	10.14 0.4	04.4 04																
	Time Risk Allowance for Section 5		10-Mar-24	04-Apr-24	10-Mar-24		0															
	Planned Completion for Section 5	0		04-Apr-24*		04-Apr-24	0	i														
Compensat					,																	
	CE No.001 - Special Work Arrangement in Ruducing the Risk of the Spread of Novel Coronavirus	0		30-Jan-20 A		04-Apr-24				•												
CE000020	CE No.002 - The Contractor's Site Accomodation by Modular Integrated Construction (MIC) Method	0		23-Mar-20 A		04-Apr-24		-		•												
CE000030	CE No.003 - Flowmeter Relocation & Pipework Rearrangement at Effluent Transfer Pumping Station	0		20-Apr-20 A		04-Apr-24		-		•												
CE000040	CE No.004 - Designated Area for the Contractor's Site Accommodation in Works Area WA1	0		26-Feb-20 A		04-Apr-24				•											· · · · · · · · · · · · · · · · · · ·	
CE000050	CE No.005 - Revised Size of Penstock at UV System No.1 & Effluent Pumping Station No.1 for Ex. Outfall	0		30-Mar-20 A		04-Apr-24		-		•												
CE000055	CE No.006 - Additional Duty Point for Effluent Transfer Pumps	0		27-Mar-20 A		04-Apr-24		-		•												
CE000060	CE No.007 - Additional Adjustable Weir at UV System No.1 & Effluent Pumping Station No.1	0		30-Jun-20 A		04-Apr-24					•											
CE000070	CE No.008 - Provision of Additional 2nd Temp. Power Supply for UV System No.1 & Effluent Pumping Station No.1	0		03-Aug-20 A		04-Apr-24		_			•											
CE000080	CE No.009 - Employment of Temporary Staff under Anti-Epidemic Fund	0		07-Jul-20 A		04-Apr-24					•											
CE000090	CE No.010 - Revised Setting Out Plan for Sidestream Treatment Facilities	0		07-Jul-20 A		04-Apr-24					•											
CE000100	CE No.012 - Provision of Touchscreen Display System for the Project Manager's Office	0		06-Oct-20 A		04-Apr-24						•										
CE000110	CE No.013 - Feasibility Study for Adopting emMiC & DfMA	0		22-Oct-20 A		04-Apr-24						•										
CE000120	CE No.014 - Revised FS Water Supply Arrangement for CHP, Guard House, Workshop No.2, SludgeDigester&DistributionChamber	0		28-Oct-20 A		04-Apr-24						•										-
	File Name: DE/2018/03 RP R7					<u> </u>				E /2010	/02						Date	Revis	sion	Checked	Appro	oved
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	WBS			<b></b>		Hui Efflue							•	••••		02-De		Rev.4	Ľ	Г	KM	
	Page 2 of 20 Actual Progress			Sidestrea	m Treatm	nent Facilit							tment Fa	aciliteis	5	30-De		Rev.5	Ľ	T	KM	
JEC						Revised I	Prog	,ram	me -	as at 20	0 Feb 20	021				26-Jar		Rev.6		Г Т	KM	
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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total 9 Float J	ASC		-	2020 1 J J A S		JFMA	2021 M J J A 4 5 6 7	SONDJ	J F M A	2022 MJJAS		FMAM 22222	2023 JJAS			4 MJJA 4444
CE000130	CE No.015 - Revised Plumbing Arranagement for Workshop No.2, UV & Effluent No.1, CHP, SPS&FCDF, DOU No.11&12, H2S, SDDC	0		30-Oct-20 A		04-Apr-24						•				<u> </u>	· <u> </u>	<u></u>	<u></u>				
CE000140	CE No.016 - Elect. Provisions for Addit. 800A ACB w/ CMPD as Standby Supply for MBBR for UV No.2 for Future Expansion	0		28-Oct-20 A		04-Apr-24						•											
CE000150	CE No.018 - MVAC Layout for Plant Service Water System	0		05-Nov-20 A		04-Apr-24						•											
CE000160	CE No.020 - Addit. set of 11kV power feeder panel at 11kV SB in CHP for future connection to Zone B in Stage 2	0		09-Nov-20 A		04-Apr-24						٠											
CE000165	NCE-PMI-0201 - Provision of Access Platform for EOT cranes in UV System No.1 & Effluent Pumping Station No.1	0		16-Nov-20 A		04-Apr-24						•											
CE000170	NCE-PMI-0202 - Revised Plumbing Arrangement for Sludge Dewatering Building	0		26-Nov-20 A		04-Apr-24						•											
CE000175	NCE-PPMI-0203 - MVAC Layout for SAS Pumping Station	0		25-Nov-20 A		04-Apr-24						•											
CE000180	NCE-PMI-0204 - CHP - Provisional of Additional ATS for Power Supply for UPS	0		08-Dec-20 A		04-Apr-24						•											
CE000185	NCE-PPMI-0205 - Fibre Optics Network Connection for SCADA Systems between Zone B $\&$ Zone C	0		23-Nov-20 A		04-Apr-24						•											
CE000190	NCE-PMI-0206 - SDB - Provisional of Additional ATS for Power Supply for UPS	0		15-Dec-20 A		04-Apr-24						•											
CE000191	NCE-PMI-0207 - TX Rm & Switch Rm - Provision of ATS for Power Supply for UPS	0		01-Dec-20 A		04-Apr-24						•											
CE000192	NCE-PPMI-0208 - Provision of Drainage service Layout for SAS Pumping Station	0		26-Nov-20 A		04-Apr-24						٠											
CE000193	NCE-PPMI-0209 - Drainage System for Plant Service Water System	0		26-Nov-20 A		04-Apr-24		-				•											
CE000194	NCE-PPMI-0210 - Electrical provisions for MVAC & Drainage Systems in SAS Pumping Station	0		08-Dec-20 A		04-Apr-24						•											
CE000195	NCE-PPMI-0211 - Revised MVAC Layout & Electrical Provisions for MVAC in TX and Switch $\ensuremath{Rm}$	0		02-Dec-20 A		04-Apr-24						•											
CE000196	NCE-PMI-0212 - Provision of Louvre Panel for Outdoor AC Units at Contractor's Site Accomodation	0		07-Dec-20 A		04-Apr-24						•											
CE000197	NCE-PPMI-0213 - Electrical provisions for MVAC & Drainage System in UV System No.1 & Effluent Pumping Station No.1	0		21-Dec-20 A		04-Apr-24						•											
CE000200	NCE-PPMI-0214 - Additional Sump Pump & Drain Pipes at UV System No.1 & Effluent Pumping Station	0		14-Dec-20 A		04-Apr-24						•											
CE000210	NCE-PPMI-0215 - Revised MVAC Layout for UV System No.1 & Effluent Pumping Station No.1	0		14-Dec-20 A		04-Apr-24						•											
CE000220	NCE-PPMI-0216 - Electrical Provisions for MVAC & drainage Sytems in Plant Service Water System	0		31-Dec-20 A		04-Apr-24						•											
CE000230	NCE-PMI-0217 - Revised Duty Points for Effluent Transfer Pumps	0		29-Dec-20 A		04-Apr-24						•											
CE000240	NCE-PMI-0218 - Scoping Study for Application of Digital Twin & IoT in Zone B & Zone C of SWHEPP	0		04-Jan-21 A		04-Apr-24						•											
CE000250	NCE-NCE-0219 - Change of Site Access Date to SAS Pumping Station Forming Part of Portion B-2 of the Site	0		19-Dec-20 A		04-Apr-24						•											
CE000252	NCE-NCE-0219 - Portion B-2a (within 771 to 891 days from starting date)	891	23-Oct-19 A	31-Mar-22	21-Feb-21	31-Mar-22	0																
CE000254 CE000256	NCE-NCE-0219 - Revised Access Date for Portion B-2a NCE-NCE-0219 - Portion B-2b (within 615 to 705 days from starting date)		31-Mar-22 23-Oct-19 A	31-Mar-22* 26-Sep-21	31-Mar-22 21-Feb-21	31-Mar-22 26-Sep-21	0																
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CE000258 CE000260	NCE-NCE-0219 - Revised Access Date for Portion B-2b NCE-PMI-0220 - Supply of Puddle Pipes for Effluent to Shek Sheung River	1	26-Sep-21	26-Sep-21* 30-Dec-20 A	26-Sep-21	26-Sep-21 04-Apr-24	0					•			l.								
CE000270	NCE-PPMI-0221 - General Arrangement for Fire Hydrant & Booster Pump Room	0		24-Dec-20 A		04-Apr-24						•											
CE000280	NCE-PMI-0222 - Revised Water Supply Arrangement (FS Water) to Sludge Dewatering	0		12-Jan-21 A		04-Apr-24						•											
CE000290	Building NCE-PMI-0223 - Construction of Trial Pits for Sidestream Treatment Facilities	0		15-Jan-21 A		04-Apr-24						•											
CE000300	NCE-PMI-0224 - Independent Inspection Body (IIB) for the Factory Acceptance Test (FAT) for	0		25-Jan-21 A		04-Apr-24							•										
Preliminari	UV Disinfeciton System					+																	
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	File Name: DE/2018/03 RP R7									E/2018,						3	Date 0-Oct-20	Rev.3	evision 3	LT Che	cked	Appro KM	Jvea
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	Page 3 of 20			Sidestrea	m Treatm	nent Facilit							tmen	t Facilit	eis		0-Dec-20	Rev.5		LT		KM	
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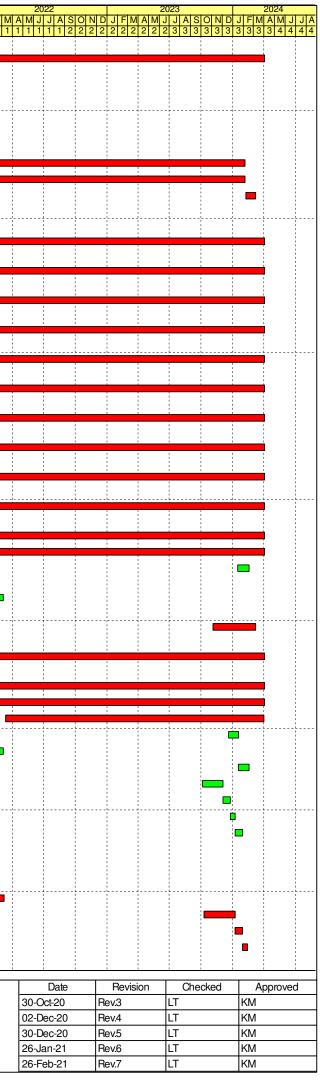
Activity ID	Activity Name	Origina Duratior	Early Start	Early Finish	Late Start	Late Finish	Total 9 Float J A	SONDJFM	2020 A M J J A S O N	DJFMAN	2021	JFM
Mobilisation		Baration							9	1 2 3 4	5678911	111
AS010100	Provison of Equipment / Facilities for the PM's Office	1625	23-Oct-19A	03-Apr-24	22-Feb-21	04-Apr-24	1					<b></b>
						- 1-						
AS010200	Mobilisation	28	23-Oct-19 A	19-Nov-19 A	21-Feb-21	21-Feb-21						
AS010205a	Design Dress trament & DO & Construction of Contractoria City Office (Marka Area MA1 D)	070	20-Nov-19A	27-Nov-20 A	23-Feb-21	23-Feb-21						
A5010205a	Design, Procurement & PO & Construction of Contractor's Site Office (Works Area WA1-B)	270	20-INOV-19A	27-INOV-20 A	23-Fe0-21	23-F60-21						
AS010210	Design, Procurement & PO & Construction of Contractor's Storage Area (Works Area WA3)	503	20-Nov-19A	05-Apr-21	23-Feb-21	07-Apr-21	2					
AS010220	Maintain Contractor's Site Office	1166	28-Nov-20 A	06-Feb-24	23-Feb-21	08-Feb-24	2					<b></b>
AS010230a	Maintain Contractor's Storage Area	1037	06-Apr-21	06-Feb-24	08-Apr-21	08-Feb-24	2				_	_
AS010240	Removal of Site Office, Storage & Relevant Facilities	30	07-Feb-24	07-Mar-24	09-Feb-24	09-Mar-24	2					
Cita Dualiminau												
Site Preliminar	Provision of Insurance, Third Party Insurances & PII	1605	23-Oct-19A	03-Apr-24	22-Feb-21	04-Apr-24	1					
AS010300	Frovision of insurance, millio Farty insurances & Fil	1020	23-00-19A	03-Api-24	22-Fe0-21	04-Api-24	'					
AS010400	Provision of 2 Contract Car for the Use of the PM & Supervisor	1625	23-Oct-19A	03-Apr-24	22-Feb-21	04-Apr-24	1					
AS010420a	Provision of 1 Electric Car for the Use of the PM & Supervisor	1534	22-Jan-20 A	03-Apr-24	22-Feb-21	04-Apr-24	1					
AS010600	Dravisian of Distancesha	1500	00 Nov 10 A	00 Amr 04	00 Eab 01	04 Apr 04						
AS010600	Provision of Photographs	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					
AS010700	Provision of Environmental Mitigation Measures	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2		·			·
	, č					•						
AS010800	Provision of Air Pollution Abatment	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					-
10010000	Describes of Marine Dell Provide Alexander	1500	00 No. 10 A	00.404	00 5-6-04	04.404						
AS010900	Provision of Noise Pollution Abatment	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					
AS011000	Provision of Wastewater Pollution Abatement	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					
						- 1-						
AS011100	Provision of Wastement Management	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					
40044000		4500			00 5 1 04							L
AS011200	Provision of Monitoring the Use of Ultra Low Sulphur Diesel	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					
AS011300	Provision of Environmental Management	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					i de la composición de la comp
AS011400	Provision of Site Management Plan for Trip Ticket System	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					-
AS011500	Provision of As-constructed Drawings for Section 3	34	14-Jan-24	16-Feb-24	05-Feb-24	09-Mar-24	22					
AS011520a	Provision of As-constructed Drawings for Section 4	31	03-Feb-22	06-Mar-22	10-Feb-22	12-Mar-22	7					
AS011540a	Provision of As-constructed Drawings for Section 5	12/	05-Nov-23	08-Mar-24	07-Nov-23	09-Mar-24	2					
700110404		127	00 1107 20	00 Mai 24	07 1107 20	00 Mai 24	-					
AS011600	Provision of Systematic Risk Management	1596	20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2		1 1 1 	1 1 1 1	- I I I	-
AS011700	Provision of Site Liaison Group & Community Liaison Group		20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					
AS011800	Provision of 24-Hour Telephone Line		20-Nov-19A	02-Apr-24	23-Feb-21	04-Apr-24	2					
AS012000	Provision of Upkeeping and Protection of Completed Works		13-Mar-22	31-Mar-24	17-Mar-22	· ·	4		· · · · · · · · · · · · · · · · · · ·			
AS012100	Provision of Training for Employer's Staff for Section 3		19-Dec-23	17-Jan-24	09-Feb-24		52 7					
AS012120a	Provision of Training for Employer's Staff for Section 4		19-Feb-22	06-Mar-22	26-Feb-22							
AS012140a AS012300	Provision of Training for Employer's Staff for Section 5 Prepare & Submit O&M Manual for Section 3		18-Jan-24 05-Oct-23	16-Feb-24 03-Dec-23	09-Feb-24 15-Nov-23		22 41					
AS012300 AS012302a	PM Reivew & Comment O&M Manual for Section 3		03-Oct-23	24-Dec-23	14-Jan-24		41					
AS012302a	Revise & Re-submit O&M Manual for Section 3		25-Dec-23	07-Jan-24	04-Feb-24		41					
AS012304a	PM Reivew & Approval of O&M Manual for Section 3		08-Jan-24	28-Jan-24	18-Feb-24		41					
AS012300a	Prepare & Submit O&M Manual for Section 4		14-Dec-21	13-Jan-22	17-Dec-21	15-Jan-22	3					<b>i</b> 1
AS012322a	PM Reivew & Comment O&M Manual for Section 4		13-Jan-22	02-Feb-22	16-Jan-22		3					
AS012324a	Revise & Re-submit O&M Manual for Section 4		03-Feb-22	16-Feb-22	06-Feb-22		3					
AS012326a	PM Reivew & Approval of O&M Manual for Section 4		17-Feb-22	09-Mar-22	20-Feb-22		3		·			
AS012340a	Prepare & Submit O&M Manual for Section 5		10-Oct-23	07-Jan-24	16-Oct-23		6					
AS012342a	PM Reivew & Comment O&M Manual for Section 5		08-Jan-24	28-Jan-24	14-Jan-24		6					
AS012344a	Revise & Re-submit O&M Manual for Section 5		29-Jan-24	11-Feb-24	04-Feb-24		6					
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Contract No. DE/2018/03 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis Revised Programme - as at 20 Feb 2021

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vity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total 9 Float J	ASONDJFMAM	2020 J J A S O N	DJFMAN	2021 JJASON	DJFMAM			2023 JJASOND	2024
AS012346a	PM Reivew & Approval of O&M Manual for Section 5	21 12-Feb-24	03-Mar-24	18-Feb-24	09-Mar-24	6	9	<u>- - - - -</u>	1 2 3 4	567891		1 1 2 2	2 2 2 2 2 2 2 2 2	23333333	
AS012400	Provision of ICE for Certification of the Design, Cal, Dwgs, Plans and all relevant Doc and	1596 20-Nov-19A		23-Feb-21		2						· •			
	Process Commissioning														
Site Upkeeping															
AS013100	General Site Upkeeping of the Site	1570 20-Nov-19A	07-Mar-24	23-Feb-21	09-Mar-24	2									
Cofety and Envi	irenmentel Menovement														
	ironmental Management Construction Health and Safety Plan	1580 10-Nov-19A	07-Mar-24	23-Feb-21	09-Mar-24	2									
AS013200	Site Traffic Safety Management Plan	1070 25-Apr-21	29-Mar-24		03-Mar-24 04-Apr-24	6						++		····	
10010000			Lo mai Li	or may 21	01740121	Ű									
Compliance wit	th BEAM Requirements														
AS013400	BEAM Plus	1580 10-Nov-19A	07-Mar-24	23-Feb-21	09-Mar-24	2									
Sludge Dewate	ering Building														
	Material Submission & Design Calculation Approved	0	30-May-21		14-Jun-21	15						ļ			 
AS013420f	Issued approved submission & Calculation to Cinotech	30 31-May-21	29-Jun-21	07-Sep-21		99									
AS013430f	Monthly Review & Submission	500 26-Dec-21	09-May-23		04-Feb-24										
AS013440f	Submission & Approval of Test Record	60 10-May-23	08-Jul-23	05-Feb-24	04-Apr-24	271									
CHP Building AS013450f	Material Submission & Design Calculation Approved	0	14 Apr 21		14-Jun-21	61									
AS0134501 AS013460f	Material Submission & Design Calculation Approved Issued approved submission & Calculation to Cinotech	0 30 15-Apr-21	14-Apr-21 14-May-21	03-Nov-21		•.			·····						
AS0134001 AS013470f	Monthly Review & Submission	480 24-Feb-22	18-Jun-23		02-Dec-21 04-Feb-24										
	Submission & Approval of Test Record	60 19-Jun-23	17-Aug-23	05-Feb-24											
			17 7 Kg 20	0010021	01740121	201									
BIM															
AS011820a	Prepare & Submit Construction Stage BIM Execution Plan	30 24-Oct-19 A	22-Nov-19A	23-Feb-21	23-Feb-21										
							····					ļ			
AS011830a	PM Reivew & Comment Construction Stage BIM Execution Plan	21 23-Nov-19A	13-Dec-19A	23-Feb-21	23-Feb-21										
AS011840a	Revise & Re-submit Construction Stage BIM Execution Plan	14 14-Dec-19A	27-Dec-19A	23-Feb-21	23-Feb-21										
A3011040a		14 14-Dec-13A	27-060-137	20-1 60-21	20-1 60-21		-								
AS011850a	PM Reivew & Approval of Construction Stage BIM Execution Plan	21 28-Dec-19A	17-Jan-20 A	23-Feb-21	23-Feb-21										
AS011880b	Contractor Review & Study Design Stage BIM	92 24-Oct-19 A	23-Jan-20 A	23-Feb-21	23-Feb-21										
AS011900	Contractor Develop 1st Construction Stage BIM	60 24-Jan-20 A	22 Mar 20 A	23-Feb-21	23-Feb-21										
	Review & Update BIM Execution Plan & BIM Model	1415 24-Mar-20 A		23-Feb-21		2		- <del> </del> <del> </del>				. <u>.</u>	····	·	<u></u>
AS011960	Prepare & Submit the Fully Coordinated BIM	60 09-Dec-23	06-Feb-24		08-Feb-24	2									
AS011961	PM Reivew & Comment Fully Coordinated BIM	21 07-Feb-24	27-Feb-24	09-Feb-24		2									
AS011962	Revise & Re-submit Fully Coordinated BIM	14 28-Feb-24	12-Mar-24		14-Mar-24	2									
AS011963	PM Reivew & Approval of Fully Coordinated BIM		02-Apr-24		04-Apr-24	2									
	Design for UV System No. 1 & Effluent Pumping Station No.1		0270121	ro mar 21	01740121										
	Aterials Procurement														
AS103100	Procurement & PO for UV Disinfection System (S10)	150 21-Nov-19A	28-Apr-20 A	21-Feb-21	21-Feb-21										
			207,01207	2110021	2110021										
AS103120	Procurement & PO for Lift-up Pumps (S11)	150 21-Nov-19A	28-Apr-20 A	21-Feb-21	21-Feb-21										
AS103140	Procurement & PO for Transfer Pumps (S13)	150 21-Nov-19A	28-Apr-20 A	21-Feb-21	21-Feb-21										
AS103180	Procurement & PO for EOT Cranes (2T & 5T) (S19)	150 19-Jan-20 A	03 <b>.</b>  uL20 A	21-Eab 21	21-Feb-21		····								¦
AS103180	Producement & PO for EOT Granes (21 & 31) (319)	150 19-Jan-20 A	03-JUI-20 A	21-Fe0-21	21-Feb-21										
AS103200	Procurement & PO for Stoplogs (S21)	90 18-Apr-20 A	17-Jul-20 A	23-May-21	23-May-21										
AS103220	Procurement & PO for Penstocks (S21)	90 18-Apr-20 A		-	20-Apr-21										
Design & Subm				,											
	gement Drawings														
AS101100	Prepare & Submit General Arrangement Drawings	90 27-Jan-20 A	19-Feb-20 A	21-Feb-21	21-Feb-21										
10101110			04 14	04 4 . 01	04 4- 04		_								
AS101110	Review & Comment on General Arrangement Drawings by PM	21 20-Feb-20 A	04-Mar-20 A	04-Apr-24	04-Apr-24										
AS101120	Revise & Re-submit General Arrangement Drawings	14 16-May-20 A	05-Aua-20 A	04-Apr-24	04-Apr-24										
		11 10 May 20 A	20 / Wg 20/1		5.74Pi E-1			<u> </u>				<u>   </u>			<u>   </u>
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	File Name: DE/2018/03 RP R7				C	ontra	ct No. DE/2018/	)3			20 (	Date Dct-20	Revision Rev.3	Checked	Appro <sup>-</sup> KM
	Layout: DE1803 RP (Feb 2021) - Critical Activity			Shek Wu	ı Hui Efflue	ent Po	lishing Plant - M	ain Works	s Stage 1			Dec-20	Rev.4		KM
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Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish		h Total P 2020 2021 2022 2023 2024 Float J A S O N D J F M A M J A S O N D J F M A M J J A S O N D J F M A M A M A M A M A M A M A M A M A M
AS101130	Review & Accept of General Arrangement Drawings by PM	5 06-Aug-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24		
Civil & Dime	sional / Tolerance Requirement Drawings	<u> </u>					
AS102100	Prepare & Submit Civil Requirement Drawings	60 07-Mar-20 A	08-Apr-20 A	15-Apr-21	15-Apr-21		
AS102110	Review & Comment on Civil Requirement Drawings by PM	21 09-Apr-20 A	20-Apr-20 A	04-Apr-24	04-Apr-24		4
AS102120	Revise & Re-submit Civil Requirement Drawings	14 21-Apr-20 A	29-Apr-20 A	04-Apr-24	04-Apr-24		4
AS102130	Review & Comment of Civil Requirement Drawings by PM	21 30-Apr-20 A	25-May-20 A	04-Apr-24	04-Apr-24		4
AS512140	Revise & Re-submit Civil Requirement Drawings	28 26-May-20 A	05-Aug-20 A	04-Apr-24	04-Apr-24		
AS512150	Review & Accept of Civil Requirement Drawings by PM	5 06-Aug-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24		f I
Electrical Sc	hematic Drawings	//					
AS102150	Prepare & Submit Elec. Schematic Drawings	60 25-Feb-20 A	03-Apr-20 A	21-Feb-21	21-Feb-21		
AS102160	Review & Comment on Elec. Schematic Drawings by PM	21 04-Apr-20 A	16-Apr-20 A	25-Apr-21	25-Apr-21		
AS102170	Revise & Re-submit Elec. Schematic Drawings	14 17-Apr-20 A	04-May-20 A	25-Apr-21	25-Apr-21		
AS102180	Review & Accept of Elec. Schematic Drawings by PM	21 05-May-20 A	03-Jun-20 A	25-Apr-21	25-Apr-21		
UV System N	lo. 1		<u> </u>				
AS102200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	60 24-Mar-20 A	08-May-20 A	15-Apr-21	15-Apr-21		
AS102210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 09-May-20 A	01-Jun-20 A	04-Apr-24	04-Apr-24		4
AS102220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 02-Jun-20 A	10-Jul-20 A	04-Apr-24	04-Apr-24		4
AS102230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 11-Jul-20 A	06-Aug-20 A	04-Apr-24	04-Apr-24		4
AS102300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	60 15-Apr-20 A	29-May-20 A	15-Apr-21	15-Apr-21		
AS102310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 30-May-20 A	19-Jun-20 A	15-Apr-21	15-Apr-21		
AS102320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 20-Jun-20 A	23-Jul-20 A	15-Apr-21	15-Apr-21		
AS102330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 24-Jul-20 A	08-Aug-20 A	15-Apr-21	15-Apr-21		
Effluent Pum	ping Station No. 1						
AS112200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	60 24-Mar-20 A	08-May-20 A	21-Feb-21	21-Feb-21		
AS112210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 09-May-20 A	01-Jun-20 A	04-Apr-24	04-Apr-24		4
AS112220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 02-Jun-20 A	10-Jul-20 A	04-Apr-24	04-Apr-24		4
AS112230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 11-Jul-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24		4
AS112300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	60 15-Apr-20 A	29-May-20 A	21-Feb-21	21-Feb-21		
AS112310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 30-May-20 A	19-Jun-20 A	21-Feb-21	21-Feb-21		
AS112320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 20-Jun-20 A	23-Jul-20 A		21-Feb-21		
AS112330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 24-Jul-20 A	08-Aug-20 A	21-Feb-21	21-Feb-21		
Building Serv	ices						
AS113100	Prepare & Submit BS Works Design & Dwgs UV System No.1 & Effluent Pumping Station No.1	90 15-Mar-20 A	27-Jul-20 A	28-Apr-21	28-Apr-21		
AS113160c		8 21-Jul-20 A	05-Aug-20 A	21-Sep-21	21-Sep-21		
AS113200	Prepare & Submit FS Works Design & Dwgs UV System No.1 & Effluent Pumping Station No	60 14-Apr-20 A	05-Aug-20 A	28-Apr-21	28-Apr-21		
AS113260c	Review & Accept of FS Works Design & Dwgs UV System No.1 & Effluent Pumping Station 1	8 09-Jul-20 A	06-Aug-20 A	28-Apr-21	28-Apr-21		
Section 2 -	Complete All Designs (exclude Sec. 1 & 3)						
	File Name: DE/2018/03 RP R7					ont	Contract No. DE/2018/03
	Layout: DE1803 RP (Feb 2021) - Critical Activity			Shek Wu			uent Delishing Plant Main Works Stage 1
	WBS		Sidestrea				ilities and E&M Works for Sluge Treatment Faciliteis     02-Dec-20     Rev.4     LT     KM
JE	Page 6 of 20						d Programme - as at 20 Feb 2021         26-Jan-21         Rev.6         LT         KM
	2				-		26-Feb-21 Rev.7 LT KM

Activity ID	Activity Name	Original Ear Duration	ly Start	Early Finish	Late Start	Late Finish	Total Float	9 2020 2021 J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F 2 1 2 3 4 5 6 7 8 9 1 1 1 1	2022 M A M J J A S		2023 1 J J A S O N D	2024 J F M A M J J A
Major Plant &	Materials Procurement							<u>-   -   -   -   -   -   -   -   -   -  </u>		2 2 2 2 2 2 2 2 2 2	23333333	3 3 3 3 4 4 4 4
AS023100	Procurement & PO for Sludge Screening System (S2)	150 18·	-May-20 A	16-Oct-20 A	10-Mar-21	10-Mar-21						
AS023120	Procurement & PO for Sludge Thickening System (S3)	180 20-	-Nov-19A	08-Jun-20 A	05-Apr-21	05-Apr-21						
AS023140	Procurement & PO for Sludge Digestion System (S5)	150 18·	-Feb-20 A	12-Aug-20 A	07-Mar-21	07-Mar-21						
AS023160	Procurement & PO for Sludge Dewatering System (S6)	180 20-	-Nov-19A	08-Jun-20 A	05-Apr-21	05-Apr-21						
AS023180	Procurement & PO for THP System (S4)	180 20-	-Nov-19A	05-Jun-20 A	07-Mar-21	07-Mar-21						
AS023190a	Procurement & PO for Biogas Holding Tanks (S7)	180 20-	-Nov-19A	20-Aug-20 A	10-Mar-21	10-Mar-21						
AS023200	Procurement & PO for Biogas Booster and Transfer Pumps (S7)	183 17-	-Jul-20 A	19-Mar-21	10-Mar-21	05-Apr-21	17					
AS023210	Procurement & PO for H2S Removal System (S7)	183 17·	-Jul-20 A	07-Mar-21	22-Mar-21	05-Apr-21	29					
AS023220	Procurement & PO for CHP System (S8)	180 20-	-Nov-19A	08-Jun-20 A	01-Apr-21	01-Apr-21						
AS023240	Procurement & PO for Waste Gas Burning System (S9)	150 17-	-Jul-20 A	15-Jan-21 A	09-Jun-21	09-Jun-21						
AS023260	Procurement & PO for Plant Service Water System (S12)	150 18-	-May-20 A	30-Sep-20 A	05-Apr-21	05-Apr-21						
AS023280	Procurement & PO for SAS Pumping System (S14)	150 18-	-May-20 A	30-Sep-20 A	05-Apr-21	05-Apr-21						
AS023300	Procurement & PO for Transfomers (S17)	150 18-	-Feb-20 A	13-Jul-20 A	15-Apr-21	15-Apr-21						
AS023320	Procurement & PO for 11 kV Switchboard (S17)	150 18-	-Feb-20 A	13-Jul-20 A	15-Apr-21	15-Apr-21						
AS023340	Procurement & PO for 380V Switchboard (S17)	120 21	-Nov-20 A	16-Apr-21	15-Apr-21	08-Jun-21	53					
AS023380	Procurement & PO for Control & Monitoring System (S18)			11-Jan-21 A	09-Jun-21							
AS023400	Procurement & PO for Lifting Appliances (S19)			31-May-21	07-Mar-21		14					
AS023420	Procurement & PO for DO System (S21)		·	24-Jun-20 A		20-Mar-21						
	Procurement & PO for Stoplog (S21)			17-Jul-20 A								
AS023460	Procurement & PO for Penstock (S21)			17-Jul-20 A	09-Jun-21							
AS023480	Procurement & PO for Sewage Pump (S21)			30-Sep-20 A	01-Apr-21							
AS023500	Procurement & PO for Process Water Pump (S21) Procurement & PO for External Sludge Transfer Pump (S21)		-	30-Sep-20 A 19-Mar-21	01-May-21 13-May-21		81					
AS023520	Procurement & PO for THP Cooling Pump (S21)		-	04-Dec-20 A	08-Jun-21		01					
AS023540	Procurement & PO for Ferric Chloride Storage Tank (S21)		-Jul-20 A	16-Mar-21	16-May-21		84					
AS023580	Procurement & PO for Ferric Chloride Dosing Pump (S21)			12-Mar-21	20-May-21		88					
			-									
AS023600 AS023620b	Procurement & PO for Temporary Primary Sludge Pump (S21) Procurement & PO for Genset			19-Mar-21 20-Mar-21	13-May-21	08-Jun-21 08-Jun-21	81 80					
Design & Sub		100 22	-Jui-∠UA		1∠-iviay-∠1	vo-Juii-21	00					
	ngement Drawings											
AS020100	Prepare & Submit General Arrangement Drawings (from formation level up to +8mPD)	180 20-	-Nov-19A	29-May-20 A	25-Mar-21	25-Mar-21						
AS020110	Review & Comment on General Arrangement Drawings by PM (from formation level up to +8mPD)	21 07-	-May-20 A	02-Jul-20 A	05-May-21	05-May-21						
AS020120	Revise & Re-submit General Arrangement Drawings (from formation level up to +8mPD)	223 26-	-May-20 A	06-Mar-21	05-May-21	18-May-21	73					
	File Name: DE/2018/03 RP R7					0	ontr	act No. DE/2018/03	Date	Revision	Checked	Approved
	Layout: DE1803 RP (Feb 2021) - Critical Activity				Shek Wu			Polishing Plant - Main Works Stage 1	30-Oct-20	Rev.3 Rev.4		KM
				Sidestrea				and E&M Works for Sluge Treatment Faciliteis	02-Dec-20 30-Dec-20	Rev.4 Rev.5		KM KM
	Page 7 of 20							gramme - as at 20 Feb 2021	26-Jan-21	Rev.6	LT	KM
JE									26-Feb-21	Rev.7	LT	КМ

Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	al 9 at <mark>J A S O N D J F</mark>										2024 J F M A M J J A 3 3 3 3 4 4 4 4
AS020130	Review & Accept of General Arrangement Drawings by PM (from for mation level up to +8mPD)	21 07-Mar-21	27-Mar-21	19-May-21	08-Jun-21	73											
AS020140a	Prepare & Submit General Arrangement Drawings (remaining)	177 17-Jul-20 A	15-Jan-21 A	08-Apr-21	08-Apr-21				· · · · · · · · · · · · · · · · · · ·								
AS020150a	Review & Comment on General Arrangement Drawings by PM (remaining)	21 05-Sep-20 A	25-Feb-21	16-Apr-21	20-Apr-21	54	Ŧ										
AS020160a	Revise & Re-submit General Arrangement Drawings (remaining)	28 26-Feb-21	25-Mar-21	21-Apr-21	18-May-21	54	4										
AS020170a	Review & Accept of General Arrangement Drawings by PM (remaining)	21 26-Mar-21	15-Apr-21	19-May-21	08-Jun-21	54	Ē										
Civil & Dimen	sional / Tolerance Requirement Drawings																
AS020200	Prepare & Submit Civil Requirement Drawings (from formation level up to +8mPD) -KD2A	90 04-Mar-20 A	04-Jun-20 A	25-Mar-21	25-Mar-21											· · · · · · · · · · · · · · · · · · ·	
AS020210	Review & Comment on Civil Requirement Drawings by PM (from formation level up to +8mPD)	21 30-Apr-20 A	23-Jun-20 A	28-Apr-21	28-Apr-21		-										
AS020220	Revise & Re-submit Civil Requirement Drawings (from formation level up to +8mPD)	230 26-May-20 A	13-Mar-21	28-Apr-21	18-May-21	66	5	-									
AS020230	Review & Accept of Civil Requirement Drawings by PM (from formation level up to +8mPD)	21 14-Mar-21	03-Apr-21	19-May-21	08-Jun-21	66	3										
AS020300	Prepare & Submit Civil Requirement Drawings (remaining) -KD2B	120 15-Sep-20A	15- lan-21 A	08-Apr-21	08-Apr-21		-										
AS020300 AS020310	Review & Comment on Civil Requirement Drawings (remaining)	21 28-Sep-20 A		08-Apr-21	· · ·	16	8										
AS020320	Revise & Re-submit Civil Requirement Drawings (remaining)	28 06-Mar-21	02-Apr-21	21-Apr-21		46											
AS020320	Review & Accept of Civil Requirement Drawings by PM (remaining)	21 03-Apr-21	23-Apr-21	19-May-21		46											
//0020000		21 00 / 01 21	2070121	10 May 21	00 0011 21		<b>`</b>			_							
Electrical Sch	nematic Drawings				1												
AS021200	Prepare & Elec. Schematic Drawings (from formation level up to +8mPD) -KD2A	90 05-Mar-20 A	16-Mar-20 A	25-Mar-21	25-Mar-21			•									
AS021210	Review & Comment on Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21 17-Mar-20 A	24-Mar-20 A	15-Apr-21	15-Apr-21			8									
AS021220	Revise & Re-submit Elec. Schematic Drawings (from formation level up to +8mPD)	28 25-Mar-20 A	23-Apr-20 A	15-Apr-21	15-Apr-21												
AS021230	Review & Comment of Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21 24-Apr-20 A		15-Apr-21													
AS021240	Revise & Re-submit Elec. Schematic Drawings (from formation level up to +8mPD)	251 09-May-20 A		24-Apr-21													
AS021250	Review & Accept of Elec. Schematic Drawings by PM (from formation level up to +8mPD) Prepare & Submit Elec. Schematic Drawings (remaining) -KD2B	21 18-Mar-21 120 05-Mar-20 A	07-Apr-21	19-May-21 15-Apr-21		62	2										
AS021300	Prepare & Submit Liec. Schematic Drawings (remaining) -rubzb	120 05-Wai-20 A	10-1via1-20 A	15-Api-21	13-Api-21			-									
AS021310	Review & Comment on Elec. Schematic Drawings by PM (remaining)	21 17-Mar-20 A	24-Mar-20 A	24-Apr-21	24-Apr-21			0									
AS021320	Revise & Re-submit Elec. Schematic Drawings (remaining)	296 25-Mar-20 A	17-Mar-21	24-Apr-21	18-May-21	62	2										
AS021330	Review & Accept of Elec. Schematic Drawings by PM (remaining)	21 18-Mar-21	07-Apr-21	19-May-21	08-Jun-21	62	2										
Sludge Scree	ning (SSc)																
AS022200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	150 02-Jul-20 A	16-Apr-21	06-May-21	29-Jun-21	74	4										
AS022210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 17-Apr-21	07-May-21	30-Jun-21	20-Jul-21	74	4										
AS022220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 08-May-21	04-Jun-21	21-Jul-21		74	1				1						
AS022230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 05-Jun-21	25-Jun-21	18-Aug-21	-	74	4										
AS022300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180 10-Sep-20 A	08-Mar-21	21-Mar-21	· ·	28				••••••						· · · · · · · · · · · · · · · · · · ·	
AS022310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 09-Mar-21	29-Mar-21	06-Apr-21		28	- : :										
AS022320 AS022330	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment         Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	28 30-Mar-21 21 27-Apr-21	26-Apr-21 17-May-21	27-Apr-21 25-May-21		28 28	_ : :										
																1	
Sludge Thicke	ening (STh)																
AS032200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	180 02-Jul-20 A	03-Mar-21	26-Mar-21	•	33	3			<b></b>							
AS032210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 04-Mar-21	24-Mar-21	06-Apr-21	· · ·	33	i i										
AS032220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 25-Mar-21	21-Apr-21		24-May-21		_										
AS032230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 22-Apr-21	12-May-21	25-May-21		33	- : :									1	
AS032300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180 10-Sep-20 A	08-Mar-21	21-Mar-21	•	28										1	
AS032310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 09-Mar-21	29-Mar-21	06-Apr-21		28								·····			
AS032320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28 30-Mar-21	26-Apr-21	27-Apr-21	24-May-21	28	시							1		1	
	File Name: DE/2018/03 RP R7					Contr	ract No. DE/2	018/03					Date	Revis	ion	Checked	Approved
	Layout: DE1803 RP (Feb 2021) - Critical Activity			Shek Wu			Polishing Plan	-	Works	Stage 1			30-Oct-20	Rev.3	[L	.I	KM
	WBS		Sidactroa				and E&M Wo			-	Facilitai	c	02-Dec-20	Rev.4	[L	.I T	KM
100	Page 8 of 20		Juestied	in neath					•	aunent	acinter	3	30-Dec-20 26-Jan-21	Rev.5 Rev.6	L	.ı T	KM KM
JE					Revised	r108	gramme - as a	at 20 Feb	2021				26-Jan-21 26-Feb-21	Rev.6 Rev.7	[L	 T	KM
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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	9 JASOND	2020 J F M A M J J A S O N D J F M A M J J A S O N D J F			2023 1 J J A S O N D	2024 J F M A M J J
AS032330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	27-Apr-21	17-May-21	25-May-21	14-Jun-21	28		<del>-</del> 1 2 3 4 5 6 7 8 9 1 1 1 1	11111111122	<u>   2  2  2  2  2  2  2  2</u>	23333333	3 3 3 3 4 4 4
Thermal Hydr	olysis Process (THP)												
AS042200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	241	18-May-20 A	07-Jan-21 A	21-Apr-21	21-Apr-21							
AS042210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	08-Jan-21 A	27-Jan-21 A	21-Apr-21	21-Apr-21							
AS042220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	28-Jan-21 A	20-Mar-21	21-Apr-21	18-May-21	59						
AS042230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	21-Mar-21	10-Apr-21	19-May-21	08-Jun-21	59						
AS042300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180	17-Jul-20 A	07-Jan-21 A	21-Apr-21	21-Apr-21							
AS042310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	08-Jan-21 A	27-Jan-21 A	21-Apr-21	21-Apr-21							
AS042320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	28-Jan-21 A	20-Mar-21	21-Apr-21	18-May-21	59						
AS042330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	21-Mar-21	10-Apr-21	19-May-21	08-Jun-21	59		•				
Sludge Digest													
AS052200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	180	01-Aug-20 A	19-Mar-21	10-Mar-21	05-Apr-21	17						
AS052210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.		20-Mar-21	09-Apr-21	06-Apr-21	· · ·	17						
AS052210 AS052220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.		10-Apr-21	03-Apr-21 07-May-21	27-Apr-21	· ·	17						
A0032220		20											
AS052230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	08-May-21	28-May-21	25-May-21	14-Jun-21	17						
AS052300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180	31-Aug-20 A	18-Mar-21	11-Mar-21	05-Apr-21	18						
AS052310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	19-Mar-21	08-Apr-21	06-Apr-21	26-Apr-21	18						
AS052320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	09-Apr-21	06-May-21	27-Apr-21	24-May-21	18						
AS052330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	07-May-21	27-May-21	25-May-21	14-Jun-21	18						
Sludge Dewat	ering (SDe)												
AS062200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	180	02-Jul-20 A	03-Mar-21	26-Mar-21	05-Apr-21	33						
AS062210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	04-Mar-21	24-Mar-21	06-Apr-21	26-Apr-21	33						
AS062220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	25-Mar-21	21-Apr-21	27-Apr-21	24-May-21	33						
AS062230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	22-Apr-21	12-May-21	25-May-21	14-Jun-21	33						
AS062300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180	31-Aug-20 A	21-Mar-21	08-Mar-21	05-Apr-21	15						
AS062310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	22-Mar-21	11-Apr-21	06-Apr-21	26-Apr-21	15		•				
AS062320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	12-Apr-21	09-May-21	27-Apr-21	24-May-21	15						
AS062330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	10-May-21	30-May-21	25-May-21	14-Jun-21	15						
Biogas Storag	e & Pre-Treatment (BSPT)					·							
AS072200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	150	31-Aug-20 A	19-Mar-21	10-Mar-21	05-Apr-21	17						
AS072210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	20-Mar-21	09-Apr-21	06-Apr-21	· · ·	17						
AS072220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	10-Apr-21	07-May-21	27-Apr-21	24-May-21	17						
AS072230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	08-May-21	28-May-21	25-May-21	14-Jun-21	17						
AS072300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	150	22-Oct-20 A	20-Mar-21	09-Mar-21	•	16						
AS072310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment		21-Mar-21	10-Apr-21	06-Apr-21		16						
AS072320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment		11-Apr-21	08-May-21	27-Apr-21		16						
AS072330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	09-May-21	29-May-21	25-May-21	14-Jun-21	16						
	at & Power Generation (CHP)												
AS082200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.		18-May-20 A		01-Apr-21	· ·	39	İ					
AS082210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.		26-Feb-21	18-Mar-21	06-Apr-21	•	39	- i i					
AS082220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	19-Mar-21	15-Apr-21	27-Apr-21	24-May-21	39						
AS082230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	16-Apr-21	06-May-21	25-May-21	14-Jun-21	39						
AS082300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180	17-Jul-20 A	07-Jan-21 A	13-Apr-21	13-Apr-21							
AS082310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	03-Aug-20 A	01-Mar-21	13-Apr-21	21-Apr-21	51						
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									/2018/03	30-Oct-20	Rev.3	LT	KM
	Layout: DE1803 RP (Feb 2021) - Citical Activity WBS							-	lant - Main Works Stage 1	02-Dec-20	Rev.4	LT	КМ
	Page 9 of 20			Sidestrea	am Treatm	nent Facili	ties a	and E&M \	Works for Sluge Treatment Faciliteis	30-Dec-20	Rev.5	LT	KM
JEO						Revised	Prog	gramme - a	as at 20 Feb 2021	26-Jan-21	Rev.6	LT	КМ
										26-Feb-21	Rev.7		KM

Activity ID	Activity Name	Original Early Start	Early Finish	Late Start	Late Finish	Total 9				2023	2024
		Duration				Float	J A S O N D J F M A M J J A S O N D J F M A M J J A S 	0 N D J F M A M J J A S O 9 1 1 1 1 1 1 1 1 1 1 2 2	N D J F M A N 2 2 2 2 2 2 2 2	1 J J A S O N L 2 3 3 3 3 3 3 3	3 3 3 3 4 4 4 4
AS082320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28 12-Aug-20 A	24-Mar-21	22-Apr-21	14-May-21	51					
AS082330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 22-Dec-20 A	14-Apr-21	15-May-21	04-Jun-21	51					
Waste Gas B	urning System (WGB)										
AS092200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	90 15-Oct-20 A	04-Mar-21	25-Mar-21	05-Apr-21	32					
AS092210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 05-Mar-21	25-Mar-21	06-Apr-21	26-Apr-21	32					
AS092220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 26-Mar-21	22-Apr-21	27-Apr-21	24-May-21	32					
AS092230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 23-Apr-21	13-May-21	25-May-21	14-Jun-21	32					
		· ·	,			10					
AS092300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	90 29-Nov-20 A	18-Mar-21	11-Mar-21	•	10					
AS092310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 19-Mar-21	08-Apr-21	06-Apr-21	•	18					
AS092320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28 09-Apr-21	06-May-21	27-Apr-21	-	18					
AS092330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 07-May-21	27-May-21	25-May-21	14-Jun-21	18					
Plant Service	Water System (PSW)										
AS122200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	150 16-Aug-20 A	04-Mar-21	25-Mar-21	05-Apr-21	32					
AS122210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 05-Mar-21	25-Mar-21	06-Apr-21	26-Apr-21	32					
AS122220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 26-Mar-21	22-Apr-21	27-Apr-21	24-May-21	32					
AS122230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 23-Apr-21	13-May-21	25-May-21	14-Jun-21	32					
AS122300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	150 15-Oct-20 A	13-Mar-21	16-Mar-21		23					
AS122310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 14-Mar-21	03-Apr-21	06-Apr-21	· ·	23					
AS122310 AS122320	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	21 14-Mar-21 28 04-Apr-21	03-Apr-21 01-May-21	27-Apr-21	· ·	20					
AS122320 AS122330	Revise & Accept of the Schedule, Design Cal. & Fixing Details of Equipment Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	20 04-Api-21 21 02-May-21	22-May-21	27-Apr-21 25-May-21	-	23					
Surplus Activ	ated Sludge Pumping Station (SAS)										
AS142200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	202 01-Aug-20 A	21-Mar-21	08-Mar-21	05-Apr-21	15					
AS142210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 22-Mar-21	11-Apr-21	06-Apr-21	26-Apr-21	15					
AS142220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 12-Apr-21	09-May-21	27-Apr-21	24-May-21	15					
AS142230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 10-May-21	30-May-21	25-May-21	14-Jun-21	15					
AS142300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	183 16-Aug-20 A	17-Nov-20 A	27-Apr-21	27-Apr-21						
AS142310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 18-Nov-20 A	24-Nov-20 A	27-Anr-21	27-Apr-21						
AS142320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28 25-Nov-20 A	20-Mar-21	27-Apr-21		65					
AS142320	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 21-Mar-21	10-Apr-21	25-May-21	-	65					
	Nonitoring System		10 14-01	10 14-01	05 Aug 04	47					
AS182200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	90 30-Oct-20 A	19-Mar-21	10-Mar-21	•	17					
AS182210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 20-Mar-21	09-Apr-21	06-Apr-21		17					
AS182220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 10-Apr-21	07-May-21	27-Apr-21	24-May-21	1/					
AS182230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 08-May-21	28-May-21	25-May-21	14-Jun-21	17					
AS182300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	75 14-Dec-20 A	18-Mar-21	11-Mar-21	05-Apr-21	18					
AS182310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 19-Mar-21	08-Apr-21	06-Apr-21	26-Apr-21	18					
AS182320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28 09-Apr-21	06-May-21	27-Apr-21	24-May-21	18					
AS182330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 07-May-21	27-May-21	25-May-21	14-Jun-21	18					
Lifting Applia					<u> </u>						
AS192200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	198 17-Jul-20 A	21-Mar-21	15-Mar-21	12-Apr-21	22					
AS192200 AS192210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 22-Mar-21	11-Apr-21	13-Apr-21	· ·	22			····-		
AS192210 AS192220	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal. Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	21 22-Mar-21 21 12-Apr-21	02-May-21	04-May-21	-	22					
AS192230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 03-May-21	23-May-21	25-May-21		22					
AS192300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	93 30-Oct-20 A	02-Mar-21	03-Apr-21		41					
AS192310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 03-Mar-21	23-Mar-21	13-Apr-21	-	41					
AS192320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	21 24-Mar-21	13-Apr-21	04-May-21		41					
AS192330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 14-Apr-21	04-May-21	25-May-21	14-Jun-21	41					
	File Name: DE/2018/03 RP R7					`o.e.t	art No. DE /2018 /02	Date	Revision	Checked	Approved
	Layout: DE1803 RP (Feb 2021) - Critical Activity			<b>a 1</b> • • • •			act No. DE/2018/03	30-Oct-20	Rev.3	LT	KM
	WBS						olishing Plant - Main Works Stage 1	02-Dec-20	Rev.4	LT	KM
	Page 10 of 20		Sidestrea	am Treatn	nent Facili	ties a	nd E&M Works for Sluge Treatment Facilite		Rev.5	LT	KM
JE					Revised	Progr	ramme - as at 20 Feb 2021	26-Jan-21	Rev.6	LT	KM
								26-Feb-21	Rev.7	LT	KM



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	9 2020 2021 J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J 			023 J J A S O N D J 2 3 3 3 3 3 3 3 3	2024   FMAMJJA   3 3 4 4 4 4
Building Serv	ices											
AS201100	Submit & Accept BS Works Design & Dwgs for Sludge Dewatering Building	150	21-Nov-20 A	19-Apr-21	12-Apr-21	08-Jun-21	50					
AS201200	Submit & Accept BS Works Design & Dwgs for CHP Building	150	14-Nov-20 A	12-Apr-21	19-Apr-21	08-Jun-21	57					
AS201300	Submit & Accept BS Works Design & Dwgs for Sludge Digester & Distribution Chamber	150	21-Nov-20 A	19-Apr-21	12-Apr-21	08-Jun-21	50					
AS201500	Submit & Accept BS Works Design & Dwgs for Workshop No. 2	150	02-Jul-20 A	17-Apr-21	14-Apr-21	08-Jun-21	52					
AS201700	Submit & Accept BS Works Design & Dwgs for Other Facilities	150	29-Nov-20 A	27-Apr-21	04-Apr-21	08-Jun-21	42					
AS201800	Submit & Accept BS Works Design & Dwgs for FS Installation		02-Jul-20 A	31-Mar-21	01-May-21	08-Jun-21	69					
AS201900	Submit & Accept BS Works Design & Dwgs for Outdoor Lighting Installation	90	28-Jan-21 A	27-Apr-21	04-Apr-21	08-Jun-21	42					
Miscellaneou AS211100	s Submit & Accept Design & Dwgs for DO System	150	14-Dec-20 A	12-May-21	20-Mar-21	08-Jun-21	27					
AS211200	Submit & Accept Design & Dwgs for Sewage Pumping Station	183	30-Oct-20 A	30-Apr-21	01-Apr-21	08-Jun-21	39					
AS211300	Submit & Accept Design & Dwgs for Process Water Pumping System	178	05-Oct-20 A	31-Mar-21	01-May-21	08-Jun-21	69					
AS211400	Submit & Accept Design & Dwgs for External Sludge Transfer Pumping System	90	14-Nov-20 A	19-Mar-21	29-May-21	08-Jun-21	81					
AS211500	Submit & Accept Design & Dwgs for THP Cooling Water Pumping Station	90	14-Nov-20 A	19-Mar-21			81					
AS211600	Submit & Accept Design & Dwgs for Ferric Chloride Dosing System		14-Nov-20 A		25-May-21	08-Jun-21	84					
AS211700	Submit & Accept Design & Dwgs for Temporary Primary Sludge Pumping Facility		04-Jan-21 A		28-Apr-21	08-Jun-21						
AS211700	Submit & Accept Design & Dwgs for Gas Detection System		29-Nov-20 A		05-Mar-21	08-Jun-21	10					
AS211800	Submit & Accept Design & Dwgs for CCTV System		29-Nov-20 A	-	05-Mar-21	08-Jun-21	12					
	Complete Design, Construction & T&C for Sidestream Facilities	100	201101 2011		00 10121	00 0011 21	12					
	ractor / Supplier Procurement											
Design												
AS160020	Procurement & PO for Deammonification Sidestream Treatment Facilities	200	20-Nov-19A	05-Jun-20 A	08-Apr-21	08-Apr-21						
AS512260e	E&M (Process) Designer Award	1	05-Jun-20 A	05-Jun-20 A	04-Apr-24	04-Apr-24		1				
	Civil & BS Designer Award		26-Jun-20 A		04-Apr-24	•						
	Mobilisation	14	27-Jun-20 A	12-Jul-20 A	04-Apr-24	04-Apr-24						
Civil & Buildir	arance & Survey											
	Submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	05-Aug-20 A	20-Aug-20 A	21-Feb-21	21-Feb-21						
AS512300e	Review & Comment the Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	21-Aug-20 A	01-Sep-20 A	21-Feb-21	21-Feb-21						
AS512310e	Re-submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	02-Sep-20A	02-Sep-20 A	21-Feb-21	21-Feb-21		1				
AS512320e	Review & Accept Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	03-Sep-20 A	23-Sep-20 A	21-Feb-21	21-Feb-21						
AS512330e	Civil Contractor (Site Clearance & Survey) Award	1	07-Oct-20 A	07-Oct-20 A	21-Feb-21	21-Feb-21						
AS512340e	Mobilisation	5	08-Oct-20 A	12-Oct-20 A	21-Feb-21	21-Feb-21						
	Investigation				, I.							
AS512350e	Submit Tender proprosal of Civil Contractor (Ground Investigation)			29-Sep-20 A	23-Apr-21	23-Apr-21						
AS512360	Review & Accept the Tender proprosal of Civil Contractor (Ground Investigation)	21	30-Sep-20 A	27-Oct-20 A	23-Apr-21	23-Apr-21						
AS512370e	Tender Invitation of Civil Contractor (Ground Investigation)	7	02-Nov-20 A	13-Nov-20 A	23-Apr-21	23-Apr-21						
AS512380e	Submission of Tender Report	7	14-Nov-20 A	18-Nov-20 A	23-Apr-21	23-Apr-21						
	File Name: DE/2018/03 RP R7	,			,	(	Contr	act No. DE/2018/03	Date	Revision	Checked	Approved KM
	Layout: DE1803 RP (Feb 2021) - Critical Activity				Shek Wu	Hui Efflu	ent P	olishing Plant - Main Works Stage 1	30-Oct-20 02-Dec-20	Rev.3 Rev.4		KM
	Page 11 of 20			Sidestrea	am Treatm			and E&M Works for Sluge Treatment Faciliteis	30-Dec-20	Rev.5	LT	KM
JE						Revised	Prog	ramme - as at 20 Feb 2021	26-Jan-21	Rev.6		KM
									26-Feb-21	Rev.7	LI	КМ

Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	2020         2021           I A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F         1 A S O N D J F M A M J J A S O N D J F	2022 MAMJJASO 11111122	NDJFMAM	023 J J A S O N D 2 3 3 3 3 3 3 3	2024 J F M A M J J A 3 3 3 3 4 4 4 4
AS512390e	Review & Accept the Tender Report by PM	21 19-Nov-20 A	19-Nov-20 A	23-Apr-21	23-Apr-21						
AS512400e	Contract Preparation	3 20-Nov-20 A	23-Nov-20 A	23-Apr-21	23-Apr-21						
AS512410e	Civil Contractor (Ground Investigation) Award	1 24-Nov-20 A	24-Nov-20 A	23-Apr-21	23-Apr-21						
AS512420e	Mobilisation	7 25-Nov-20 A	08-Dec-20 A	23-Apr-21	23-Apr-21						
	ng & Post-drilling	74 00 Oct 00 A	06 lon 01 A	14 Apr 01	14 Ame 01						
AS512430e	Submit Tender proprosal of Civil Contractor (Pre-drilling & Post-drilling)	74 26-Oct-20 A	06-Jan-21 A	14-Apr-21	14-Apr-21						
AS512440e	Review & Accept the Tender proprosal of Civil Contractor (Predrill & Proof drill)	21 07-Jan-21 A	27-Jan-21 A	14-Apr-21	14-Apr-21						
AS512450e	Tender Invitation of Civil Contractor (Pre-drilling & Post-drilling)	14 28-Jan-21 A	04-Feb-21 A	14-Apr-21	14-Apr-21						
AS512460e	Submission of Tender Report	4 05-Feb-21 A	10-Feb-21 A	14-Apr-21	14-Apr-21						
AS512470e	Review & Accept the Tender Report by PM	21 11-Feb-21 A	16-Feb-21 A	14-Apr-21	14-Apr-21						
	Contract Preparation	3 17-Feb-21 A	25-Feb-21	· ·	18-Apr-21	52					
AS512490e	Civil Contractor (Pre-drilling & Post-drilling) Award	1 26-Feb-21	26-Feb-21	19-Apr-21	19-Apr-21	52					
	Mobilisation	3 27-Feb-21	01-Mar-21		22-Apr-21	52					
For Piling			1051								
	Submit Tender proprosal of Civil Contractor (Pling)		10-Feb-21 A	21-Feb-21		_					
	Review & Accept the Tender proprosal of Civil Contractor (Piling)	25 11-Feb-21 A	07-Mar-21	21-Feb-21		0					
	Tender Invitation of Civil Contractor (Piling) Submission of Tender Report	14 08-Mar-21	21-Mar-21		21-Mar-21 28-Mar-21	0					
		7 22-Mar-21	28-Mar-21	22-Mar-21		0					
	Review & Accept the Tender Report by PM Contract Preparation	21 29-Mar-21 3 19-Apr-21	18-Apr-21 21-Apr-21	29-Mar-21	18-Apr-21 21-Apr-21	0					
	Civil Contractor (Piling) Award	1 22-Apr-21	21-Apr-21 22-Apr-21	· ·	21-Apr-21 22-Apr-21	0					
	Mobilisation	3 23-Apr-21	25-Apr-21	-	25-Apr-21	0					
For Main Civ		0 20 / 0/ 21	20740121	207.0121	207.0121	Ŭ					
	Submit Tender proprosal of Civil Contractor (Main Civil Works)	30 17-Mar-21*	15-Apr-21	17-Mar-21	15-Apr-21	0					
	Review & Accept the Tender proprosal of Civil Contractor (Main Civil Works)	21 16-Apr-21	06-May-21		06-May-21	0					
	Tender Invitation of Civil Contractor (Main Civil Works)	14 07-May-21	20-May-21		20-May-21	0					
AS512620f	Submission of Tender Report	7 21-May-21	27-May-21	21-May-21	27-May-21	0					
AS512630f	Review & Accept the Tender Report by PM	21 28-May-21	17-Jun-21	28-May-21	17-Jun-21	0					
AS512640f	Contract Preparation	7 18-Jun-21	24-Jun-21	18-Jun-21	24-Jun-21	0					
	Civil Contractor (Main Civil Works) Award	1 25-Jun-21	25-Jun-21	25-Jun-21	25-Jun-21	0					
Design & Subn	nission										
Architectural											
AS160100	Prepare & Submit Building Layout Plan	60 07-Jun-20 A	21-Oct-20 A	08-Apr-21	08-Apr-21						
AS160110	Review & Comment on Buildingl Layout Plan by PM	67 22-Oct-20 A	17-Nov-20 A	08-Apr-21	08-Apr-21						
AS160120	Revise & Re-submit Building Layout Plan	28 18-Nov-20 A	24-Dec-20 A	08-Apr-21	08-Apr-21						
AS160130	Review & Accept of Building Layout Plan by PM	21 25-Dec-20 A		08-Apr-21		46					
AS160190e	Cooordination Meeting with DSD (Employer) for the Architectural Drawing	0	27-Mar-21		15-Nov-21	233					
AS160200	Prepare & Submit Architectural Design / Drawings	60 17-Jun-20 A		01-Nov-21	01-Nov-21						
AS160210	Review & Comment on Architectural Design / Drawings by PM		17-Nov-20 A								
AS160210	Revise & Re-submit Architectural Design / Drawings	28 18-Nov-20 A			01-Nov-21						
						050					
AS160230	Review & Accept of Architectural Design / Drawings by PM	21 25-Dec-20 A		01-Nov-21							
AS160240	Review & Accept of Architectural Design / Drawings by DSD (ind. VCAB) & DAP of ArchSD	330 28-Mar-21	20-Feb-22	16-Nov-21		233					
AS160500	Prepare & Submit ABWF Works Drawings	68 03-Nov-20 A	24-Dec-20 A	12-Oct-21	12-Oct-21						
	File Name: DE/2018/03 RP R7				(	ontr	ract No. DE/2018/03	Date	Revision	Checked	Approved
	Layout: DE1803 RP (Feb 2021) - Critical Activity			Shek Wu			Polishing Plant - Main Works Stage 1	30-Oct-20	Rev.3		KM
	WBS		Sidestre				and E&M Works for Sluge Treatment Faciliteis	02-Dec-20 30-Dec-20	Rev.4 Rev.5		KM KM
	Page 12 of 20						gramme - as at 20 Feb 2021	26-Jan-21	Rev.6	LT	KM
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Activity ID	Activity Name	Original Early Start	Early Finish	Late Start	Late Finish	Total	Total <b>9</b> 2020 2021 2022 2023 2024
		Duration				Float	
AS160510	Review & Comment on ABWF Works Drawings by PM	21 25-Dec-20 A	29-Jan-21 A	12-Oct-21	12-Oct-21		
AS160520	Revise & Re-submit ABWF Works Drawings	28 30-Jan-21 A	06-Mar-21	12-Oct-21	25-Oct-21	233	233
AS160530	Review & Accept of ABWF Works Drawings by PM	21 07-Mar-21	27-Mar-21	26-Oct-21	15-Nov-21	233	233
Civil / Structu			05.0	07 5-1-04	07 E.h. 04		
AS160240e	Prepare & Submit Loading Plan to ICE	60 13-Jul-20 A	25-Sep-20 A	27-Feb-21	27-Feb-21		
AS160250e	Review & Comment on Loading Plan by ICE	14 26-Sep-20 A	23-Oct-20 A	27-Feb-21	27-Feb-21		
AS160260e	Revise & Re-submit Loading Plan to ICE	65 24-Oct-20 A	12-Mar-21	27-Feb-21	18-Mar-21	6	
AS160270e	Review & Accept of Loading Plan by ICE	7 13-Mar-21	19-Mar-21	19-Mar-21	25-Mar-21	6	6
AS160280e	Prepare & Submit Loading Plan to PM	7 20-Mar-21	26-Mar-21	26-Mar-21	01-Apr-21	6	<u> </u>
AS160290e	Review & Accept of Loading Plan by PM & DSD (incl. BCM)	21 27-Mar-21	16-Apr-21	02-Apr-21	22-Apr-21	6	6
AS1602020	Prepare & Submit GI Plan	60 13-Jul-20 A	26-Aug-20 A	23-Apr-21	23-Apr-21		
A31002326		00 10-00-20 A	20-Aug-20 A	20-741-21	20-701-21		
AS160294e	Review & Comment on GI Plan by PM	14 27-Aug-20 A	10-Sep-20A	23-Apr-21	23-Apr-21		
AS160296e	Revise & Re-submit GI Plan	7 11-Sep-20 A	28-Sep-20 A	23-Apr-21	23-Apr-21		
AS160298e	Review & Accept of GI Plan by PM	21 29-Sep-20A	02-NI04-20 A	23-Apr-21	23-Apr-21		
701002906		21 23-3ep-20A	02-1NUV-20 A	20-AUI-21	20-7401-21		
AS160300	Prepare & Submit Foundation Design / Drawings to ICE & PM	60 20-Aug-20 A	09-Oct-20 A	21-Feb-21	21-Feb-21		
AS160310	Review & Comment on Foundation Design / Drawings by ICE & PM	79 10-Oct-20 A	27-Nov-20 A	24-Feb-21	24-Feb-21		
A6160000	Revise & Re-submit Foundation Design / Drawings to ICE & PM	14 28-Nov-20A	20 lon 01 4	24-Feb-21	24-Feb-21		
AS160320	Revise & Re-submit Foundation Design / Drawings to ICE & PM Review & Accept of Foundation Design / Drawings by ICE & PM	14 28-NOV-20 A 10 30-Jan-21 A		24-Feb-21 24-Feb-21		0	
AS160330 AS160340e	Prepare & Submit Foundation Design / Drawings to DSD (incl. BCM)	7 27-Feb-21	05-Mar-21	02-Mar-21		় ২	
A0100040C	rippare & oublinit i ouridation besign / brawings to bob (incl. bolivi)	7 27 100 21		02 10101 21	00 10121	0	
AS160350e	Review & Accept of Foundation Design / Drawings by DSD (incl. BCM)	45 06-Mar-21	19-Apr-21	09-Mar-21	22-Apr-21	3	3
AS160400	Prepare & Submit Substructure / Superstructure Design / Drawings to ICE & PM	25 10-Oct-20 A	05-Nov-20 A	14-Apr-21	14-Apr-21		
AS160410	Review & Comment on Substructure / Superstructure Design / Drawings by ICE & PM	55 06-Nov-20 A	30-Dec-20 A	23-Apr-21	23-Apr-21		
A0100410	nevew a comment on oubsideare / oupersideare besign / brawings by for a nin	55 00 NOV 20A	50 DCC 20 A	20 Apr 21			
AS160420	Revise & Re-submit Substructure / Superstructure Design / Drawings to ICE & PM	14 31-Dec-20 A	12-Mar-21	03-Aug-21	22-Aug-21	163	163
AS160430	Review & Accept of Substructure / Superstructure Design / Drawings by ICE & PM	21 13-Mar-21	02-Apr-21	23-Aug-21	12-Sep-21	163	
AS160440e	Prepare & Submit Substructure / Superstructure Design / Drawings to DSD (incl. BCM)	7 03-Apr-21	09-Apr-21	13-Sep-21	19-Sep-21	163	163
AS160440e		60 10-Apr-21	03-Apr-21 08-Jun-21				
ELS			00 001121	20 000 21	101107 21	100	
AS512160e	Prepare & Submit ELS Plan to ICE	7 26-Jun-21	02-Jul-21	26-Jun-21	02-Jul-21	0	
AS512170e	Review & Comment on ELS Plan by ICE	7 03-Jul-21	09-Jul-21	03-Jul-21		0	
AS512180e	Revise & Re-submit ELS Plan to ICE	7 10-Jul-21	16-Jul-21	10-Jul-21		0	
AS512190e	Review & Accept of ELS Plan by ICE	7 17-Jul-21	23-Jul-21	17-Jul-21		0	
AS512200e	Prepare & Submit ELS Plan to PM	7 24-Jul-21	30-Jul-21	24-Jul-21	30-Jul-21	0	
AS512210e	Review & Accept of ELS Plan by PM	21 31-Jul-21	20-Aug-21	31-Jul-21	20-Aug-21	0	0
Process Des		109 00 100 1	10 Nov 00 4	11 Mar 00	11 Mar 00		
AS512220e	Prepare & Submit E&M Works (Process) Design Drawings	198 06-Jul-20 A	10-Nov-20 A	11-Mar-22	11-Mar-22		
AS512230e	Review & Comment on E&M Works (Process) Design Drawings by PM	21 11-Nov-20 A	08-Dec-20 A	11-Mar-22	11-Mar-22		
AS512240e	Revise & Re-submit E&M Works (Process) Design Drawings	14 09-Dec-20 A			23-Mar-22	383	383
AS512250e	Review & Accept of E&M Works (Process) Design Drawings by PM	21 06-Mar-21	26-Mar-21		13-Apr-22		
E&M Design		_					
AS151100	Prepare & Submit General Arrangement Drawings	227 07-Jun-20 A	31-Mar-21	02-Aug-21	· ·		
AS151110	Review & Comment on General Arrangement Drawings by PM	21 01-Apr-21	21-Apr-21	· ·	30-Sep-21		
AS151120	Revise & Re-submit General Arrangement Drawings	28 22-Apr-21	19-May-21	01-Oct-21	28-Oct-21	162	162
	File Name: DE/2018/03 RP R7				~	`on+-	Contract No. DE/2018/03
	Layout: DE1803 RP (Feb 2021) - Critical Activity			Shak M.			ant Polishing Plant Main Works Stage 1
	WBS		C!-I*				ent Polishing Plant - Main Works Stage 1 02-Dec-20 Rev.4 LT KM
	Page 13 of 20		Sidestrea	im i reatm			ties and E&M Works for Sluge Treatment Faciliteis 30-Dec-20 Rev.5 LT KM
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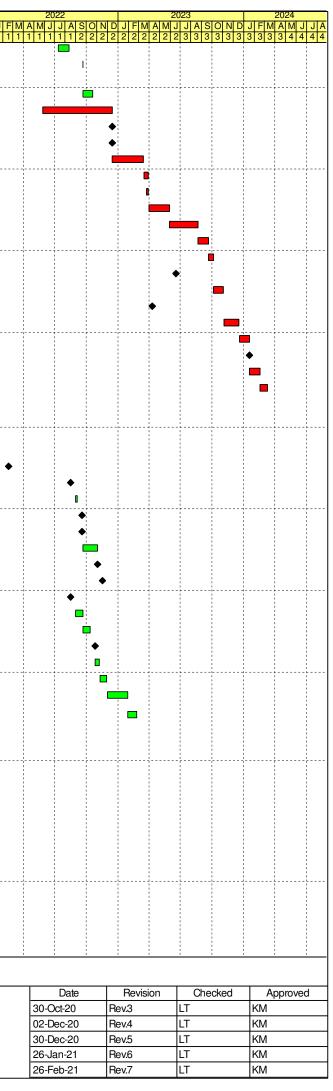
Activity ID	Activity Name	Original E Duration	arly Start	Early Finish	Late Start	Late Finish	Tota Floa	t J A S O N												V D J F	2024 M A M J J
AS151130	Review & Accept of General Arrangement Drawings by PM	21 2	0-May-21	09-Jun-21	29-Oct-21	18-Nov-21	162			<u>-  -9  -   -</u>				<u>, 1019111</u>		<u>   </u>     2		22222	2 3 3 3 3 3 3	<u>, , , , , , , , , , , , , , , , , , , </u>	3 3 4 4 4
BS				1																	
AS201400	Prepare & Submit BS Works Design & Dwgs for Sidestream Treatment Facilities	264 0	3-Jul-20 A	10-Dec-20 A	14-May-22	14-May-22															
AS201405e	Review & Comment on BS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21 1	1-Dec-20 A	11-Jan-21 A	14-May-22	14-May-22						-									
AS201410e	Revise & Re-submit BS Works Design & Dwgs for Sidestream Treatment Facilities	14 0	5-Jan-21 A	06-Mar-21	14-May-22	27-May-22	447														
AS201415e	Review & Accept of BS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21 0	7-Mar-21	27-Mar-21	28-May-22	17-Jun-22	447							· · · · · · · · · · · · · · · · · · ·					-		
AS201420	Submission & Submit FS Works Design & Dwgs for Sidestream Treatment Facilities	182 0	3-Aug-20 A	10-Dec-20 A	06-Jul-22	06-Jul-22		-													
AS201430e	Review & Comment on FS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21 1	1-Dec-20 A	19-Jan-21 A	06-Jul-22	06-Jul-22		-				-									
AS201440e	Revise & Re-submit FS Works Design & Dwgs for Sidestream Treatment Facilities	14 2	0-Jan-21 A	07-Mar-21	06-Jul-22	20-Jul-22	500	Ĵ													
AS201450e	Review & Accept of FS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21 0	8-Mar-21	28-Mar-21	21-Jul-22	10-Aug-22	500	,													
Major Plant &	Materials Procurement																				
Civil & Struct							1						_								
	Procurement, Manufacture & Delivery of Piling		1-Feb-21 A		29-Mar-21	•															
AS153140e				05-Oct-21		18-Nov-21															
AS153150e	Procurement, Manufacture & Delivery of Steel Reinforcement		0	05-Oct-21		18-Nov-21															
AS153160e	Procurement, Manufacture & Delivery of Metal Works Material	60 0	9-May-21*	07-Jul-21	22-Jun-21	20-Aug-21	44														
	Procurement, Manufacture & Delivery of Water Proofing Material	60 0	4-Mar-22	02-May-22	09 Son 00	26-Nov-22	200														
AS153170 AS153180	Procurement, Manufacture & Delivery of Water Probling Material Procurement, Manufacture & Delivery of ABWF Works Material		7-Jan-22	16-May-22		10-Dec-22															
AS133160	Ficulenieni, ivianulaciule a Delivery of ADWI Works Ivialenia	120 1	1-Jan-22	10-ividy-22	13-Aug-22	10-066-22	200														
E&M Process																					
AS153100 BS	Procurement, Manufacture & Delivery of Deammonification Sidestream Treatment Facilities	360 1	9-Apr-21	13-Apr-22	19-Apr-21	13-Apr-22	(														
AS153190	Procurement, Manufacture & Delivery of BS Works Material	240 1	7-Aug-21	13-Apr-22	21-Oct-21	17-Jun-22	65	5													
Fitting-out	Des surgement Many factors 2. Dalities of Et aut Marks Material	60 0		01 Arr 00	10.0+00	10 Dec 00	000														
AS512370f	Procurement, Manufacture & Delivery of Fit-out Works Material	60 2	1-Feb-22	21-Apr-22	12-Oct-22	10-Dec-22	230														
	nent, Tilting & Utility Monitoring			00.14 0 <i>i</i>																	
AS153200f	Ground Settlement, Tilting & Utility Monitoring	1184 1	2-Dec-20 A	09-Mar-24	21-Feb-21	09-Mar-24	(														
Civil Works Co	postruction																				
AS161100	Site Clearance & Survey	50 3	0-Sep-20A	11-Dec-20 A	21-Feb-21	21-Feb-21															
AS161120	Ground Investigation	65 1	2-Dec-20 A	18-Jan-21 A	23-Apr-21	· ·															
AS161140	Foundation / Pilings (inc. pre-drilling, post-drilling, proof test, etc)		3-Apr-21	20-Aug-21	23-Apr-21	-		1					:								
AS161160	Excavation / ELS		1-Aug-21	18-Nov-21	-	18-Nov-21		1						:							
AS161180	Substructure / Superstructure		9-Nov-21	17-May-22	19-Nov-21	-		_								l					
AS161200	Waterproofing		3-May-22	16-Jun-22	27-Nov-22										L						
AS161220	External & Internal Finishes - 1st Fix (Blockwork, Plastering, Wet Trade)		7-May-22	14-Aug-22		10-Mar-23													+		
AS161240 AS161260	External & Internal Finishes - 2nd Fix (Ceiling / Wall / Floor Finishing, Door) Landscaping & Establishment Works		9-Jul-22 5-Aug-22	26-Oct-22 14-Aug-23	· ·	12-Dec-23 09-Mar-24											:				
E&M Installatio		303 1	J-Auy-22	14-Aug-23	TT-IVIAI-23	09-101-24	200														
AS154100	E&M Installation of Deammonification Sidestream Treatment Facilities	200 1	4-Apr-22	30-Oct-22	14-Apr-22	30-Oct-22	(														
AS154110e	E&M installation of DG Plant Room		8-May-22	15-Aug-22		04-Oct-22		j l													
AS154120	Installation of Electrical Supply Systems (TX, LV Switchboard & Temp. Power)		4-Apr-22	12-Jul-22		23-Nov-22															
AS154160	FS Installation - Conduits, Trunking, & Pipeworks		8-May-22	26-Jul-22	-	19-Oct-22		-													
AS154180	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices		3-Jul-22	20-Sep-22	-	14-Dec-22															
AS154200	BS Fitting Installation - Conduits, Trunking, & Ductworks	90 1	8-May-22	15-Aug-22	18-Jun-22	15-Sep-22	31														
AS154220	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90 1	6-Aug-22	13-Nov-22	16-Sep-22	14-Dec-22	31										<b>—</b>				
AS154240	Installation of Control & Monitoring System	120 1	7-Aug-22	14-Dec-22	17-Aug-22	14-Dec-22	0	1								-					
AS154260	Installation of CCTV System	90 1	6-Sep-22	14-Dec-22	16-Sep-22	14-Dec-22	0	/								1					
Testing & Com	missioning															1					
	File Name: DE/2018/03 RP R7						Cont	ract No.	DF/201	18/02						Date		Revision	Checke		Approved
	Layout: DE1803 RP (Feb 2021) - Critical Activity				Shak W.	ı Hui Efflu			-	-	Works	Stage	1			0-Oct-20		ev.3	LT	KM	
	WBS			Cialactor				•				•		1:4-2:-		2-Dec-20		ev.4	LT	KM	
	Page 14 of 20			Sidestrea	am Treatn						•	eatme	nt Faci	iiteis		0-Dec-20		ev.5	LT	KM	
JE						Revised	Pro	gramme	- as at	20 Feb	2021					6-Jan-21		ev.6		KM KM	
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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total 9 Float J	J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F
AS155000d	SAT for TX & LV Switchboard	30	13-Jul-22	11-Aug-22	08-Sep-23	07-Oct-23	422	
AS155020d	Power Energization (Power Provision from DE/2018/04 Contract)		20-Sep-22	20-Sep-22	08-Oct-23	07 Oct 20 08-Oct-23	383	
/.01000100					00 00.20	00 00.20		
AS155040d	Essential T&C for FSD Inspection	30	21-Sep-22	20-Oct-22	09-Oct-23	07-Nov-23	383	
AS155100	SAT for Deammonification Sidestream Treatment Facilities (Ref. to PS6B.1.18.3)	200	29-May-22	14-Dec-22	29-May-22	14-Dec-22	0	
AS155105e	Existing sludge dewatering facilities Ready (by DE/2018/04 Contract)	0		14-Dec-22		14-Dec-22	0	
AS155110e	Plant service water from zone B/C Ready (Zone B by DE/2018/04 Contract)	0		14-Dec-22		14-Dec-22	0	
AS155120a	Process Start Up		15-Dec-22	16-Mar-23	15-Dec-22	16-Mar-23	0	·····
AS155140a	Submission & Acceptance of Process Start Up Report		17-Mar-23	30-Mar-23	17-Mar-23	30-Mar-23	0	
AS155160a	Notice for Commencement of Phase 1 Commissioning Tests		24-Mar-23	30-Mar-23	24-Mar-23	30-Mar-23	0	
AS155200	Phase 1 Commissioning Tests		31-Mar-23	29-May-23	31-Mar-23		0	
AS155210e	Phase 1 Re-commissioning Tests (If Failure)		30-May-23	21-Aug-23	30-May-23	21-Aug-23	0	
AS155220a	Submission & Acceptance of Phase 1 Commissioning Tests Report		22-Aug-23	20-Sep-23	22-Aug-23		0	,
AS155240a	Phase 1 Post Commissioning		21-Sep-23	04-Oct-23	21-Sep-23	04-Oct-23	0	
AS155250e	Ready to Process start up of the first Anaerobic Digester in Zone C		19-Jun-23		05-Oct-23		108	
AS155260a	Submission & Acceptance of Phase 1 Post Commissioning Report		05-Oct-23	03-Nov-23	05-Oct-23		0	
AS155270e	THP digested sludge centrate from Zone C Ready	0		09-Apr-23		04-May-23	25	
AS155300	Phase 2 Commissioning Tests		04-Nov-23	18-Dec-23	04-Nov-23		0	,
AS155320a	Submission & Acceptance of Phase 2 Commissioning Tests Report		19-Dec-23	17-Jan-24	19-Dec-23	17-Jan-24	0	
AS155330e	Commissioning of new Anaerobic Digesters (2 nos.) in Zone C Finished	0		17-Jan-24		17-Jan-24	0	
AS155340a	Phase 3 Commissioning Tests		18-Jan-24	16-Feb-24	18-Jan-24	16-Feb-24	0	
AS155360a	Submission & Acceptance of Phase 3 Commissioning Tests Report	22	17-Feb-24	09-Mar-24	17-Feb-24	09-Mar-24	0	
Statutory Subm	nission / Inspection (FSD)							
AS201440	Prepare & Submit GBP for FSD approval	90	12-Jan-21 A	10-Feb-21 A	02-Jun-21	02-Jun-21		
AS201460	FSD Review & Approval of GBP	180	11-Feb-21 A	09-Aug-21	02-Jun-21	18-Nov-21	101	
AS201470e	Submit WWO46 Part I/II to WSD (FS / PD)	0	17-Feb-22		20-Mar-22		31	
AS201472e	Submit WWO46 Part IV to WSD (FS / PD)	0	16-Aug-22		04-Oct-23		414	
AS201475e	WSD Inspection		30-Aug-22	05-Sep-22	18-Oct-23	24-Oct-23	414	
AS201477e	Issuance of FS Water Certificate	0		19-Sep-22		07-Nov-23	414	
AS201480e	Issuance of Form WWO46 Part Va	0		19-Sep-22		10-Jan-24	478	
AS201482f	System Flushing / Sampling	45	20-Sep-22	03-Nov-22	11-Jan-24	24-Feb-24	478	
AS201485e	Issuance of Form WWO46 Part Vb	0	•	03-Nov-22		24-Feb-24	478	
AS201487f	Issuance of Water Certificate	0		17-Nov-22		09-Mar-24	478	
AS201490e	Submit Application to FSD for DG Licence	0	16-Aug-22		05-Oct-22		50	
AS201495e	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	21	31-Aug-22	20-Sep-22	20-Oct-22	09-Nov-22	50	
AS201500e	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	21	21-Sep-22	11-Oct-22	10-Nov-22	30-Nov-22	50	
AS201505e	DG Licence issued	0	•	25-Oct-22		14-Dec-22	50	
AS201510a	Prepare & Submit FS/314, FS/501 & FS/501a		26-Oct-22	08-Nov-22	08-Nov-23			
AS201520a	FSD Review & Approval of FS/314, FS/501 & FS/501a		09-Nov-22	29-Nov-22	22-Nov-23	12-Dec-23		
AS201540a	F.S. Inspection, Defects Rectification & Re-inspection		30-Nov-22	28-Jan-23	13-Dec-23	10-Feb-24		
AS201560a	Issuance of Acceptance Letter	28	29-Jan-23	25-Feb-23	11-Feb-24			
	Complete Construction & T&C for UV System No.1 & EP Station No.							
	Aterials Fabrication & Delivery							
AS103160	Procurement & PO for FRP Cover (S11)	288	18-Apr-20 A	23-Mar-21	01-May-21	31-May-21	69	
40100000	Drag woment & DO for Dispurgly & Associated Making	00	OF Amr 00 A	15 1.00 4				
AS103300	Procurement & PO for Pipeworks & Associated Valves	90	25-Apr-20 A	15-Jul-20 A	21-Feb-21	21-Feb-21		
AS103320	Procurement & PO for Elec. Materials	198	18-Jul-20 A	25-Mar-21	06-Jul-21	07-Aug-21	135	
AS103400	Procurement & PO for FS System (S20)	60	02-Jul-20 A	04-Dec-20 A	28-Apr-21	28-Apr-21		
AS104100	Fabrication of UV Disinfection System (S10)		10-Dec-20 A	07-Jun-21	15-Apr-21	30-Jul-21	53	
AS104105c	FAT for UV Disinfection System (S10)		25-May-21	07-Jun-21	17-Jul-21	30-Jul-21	53	
			00 1	00 1		20 Con 21	53	
AS104110c	Delivery of UV Disinfection System (S10)	60	08-Jun-21	06-Aug-21	31-Jul-21	28-Sep-21	55	

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JEC

Remaining Work
 Gritical Activity
 Milestone
 Actual Progress



Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	TASOND			S O N D J F		JASON		2022 M J J A S (		2023 A M J J A S O I	
AS104140	Fabrication & Delivery of Transfer Pumps (S13)	180 21-Dec-20 A	18-Jun-21	13-May-21	07-Sep-21	81		<u> </u>	<u> -9  -  -  - </u>		2 3 4 3	<u>, 101911</u>	<u>•••••</u> ••				13 3 3 3 3 4 4 4
AS104160	Fabrication & Delivery of FRP Cover (S11)	240 24-Mar-21*	18-Nov-21	01-Jun-21	26-Jan-22	69	Ĵ										
AS104180	Fabrication & Delivery of EOT Cranes (2T & 5T) (S19)	120 28-Jan-21 A	27-May-21	21-Feb-21	27-May-21	0	,										
AS104200	Fabrication & Delivery of Stoplogs (S21)	270 16-Dec-20 A	11-Sep-21	23-May-21	11-Dec-21	91	-			-							
AS104220	Fabrication & Delivery of Penstocks (S21)	270 18-Jan-21 A	14-Oct-21	20-Apr-21	11-Dec-21	58	3					_					
AS104300	Fabrication & Delivery of Pipeworks & Associated Valves	180 11-Jan-21 A	09-Jul-21	21-Feb-21	09-Jul-21	0	1			-							
AS104320	Fabrication & Delivery of Elec. Materials	150 24-Jun-21	20-Nov-21	08-Aug-21		45	·					<u></u>					
AS104400	Fabrication & Delivery of FS System (S20)	180 18-Apr-21*	14-Oct-21	28-Apr-21	24-Oct-21	10	J										
E&M Installati	on Provision of Temporary Power for UV System No.1 & Effluent Transfer Pumping Station	180 25-May-21	20-Nov-21	31-Jul-21	26-Jan-22	67	7										
AS106100	Mobilisation	30 25-Apr-21	24-May-21	25-Apr-21		0	<u>ר</u>										
AS106120	E&M Installation of EOT Cranes (5T)	60 25-May-21	23-Jul-21	25-May-21	23-Jul-21	0	Ĵ				-						
AS106140	E&M Installation of EOT Cranes (2T)	60 08-Jun-21	06-Aug-21	10-Jul-21	07-Sep-21	32	2				-						
AS106160	E&M Installation of Lift-up Pumps & Associated Pipeworks / Valves	75 24-Jul-21	06-Oct-21	24-Jul-21	06-Oct-21	0	,					<b>—</b>					
AS106180	E&M Installation of Transfer Pumps & Associated Pipeworks / Valves	75 08-Sep-21	21-Nov-21	08-Sep-21		0	1					-					
AS106200	E&M Installation of Penstocks & Stoplogs	30 22-Nov-21	21-Dec-21		24-Jan-22	34	r										
AS106210	E&M Installation of UV System	120 29-Sep-21	26-Jan-22	· ·	26-Jan-22	0	1		·····			- <u></u>					
AS106220	FS Installation - Conduits, Trunking, & Pipeworks	90 24-Jul-21	21-Oct-21	27-Jul-21		3											
AS106240	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	45 22-Oct-21	05-Dec-21	25-Oct-21	08-Dec-21	3	/	-									
AS106260	BS Fitting Installation - Conduits, Trunking, & Ductworks	120 24-Jul-21	20-Nov-21	21-Sep-21			2										
AS106280	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	60 28-Nov-21	26-Jan-22		12-Mar-22		1										
AS106320	Installation of CCTV System	45 23-Oct-21	06-Dec-21	28-Dec-21	10-Feb-22	66	<i>i</i>										
	mission / Inspection (FSD)				00 D 01												
AS107100	Prepare & Submit FS/314, FS/501 & FS/501a	7 29-Nov-21	05-Dec-21	02-Dec-21		3						I					
AS107110a AS107200	FSD Review & Approval of FS/314, FS/501 & FS/501a F.S. Inspection, Defects Rectification & Re-inspection	21 06-Dec-21 45 27-Dec-21	26-Dec-21 09-Feb-22	09-Dec-21	29-Dec-21 12-Feb-22	3											
AS107200	Issuance of Acceptance Letter	28 10-Feb-22	09-Ner-22		12-Nar-22	3	2										
Testing & Con	· ·	20 10-1 60-22	03-10122	10-1 60-22	12-11101-22	5											
	T&C and R.P.E inspection for EOT Cranes	15 07-Aug-21	21-Aug-21	12-Jan-22	26-Jan-22	158	3										
AS107400	SAT for UV System No. 1 & Effluent Transfer Pumping Station No. 1	15 27-Jan-22	10-Feb-22		10-Feb-22	0	נ										
AS107500	System Commissioning Tests	30 11-Feb-22	12-Mar-22		12-Mar-22	0	ĵ										
	Complete all remaining Works (incl. T&C)					-											
	AT & Delivery of Major Plant & Materials																
AS023290	Procurement & PO for Pipeworks & Associated Valves	120 29-Jan-21 A	28-May-21	17-Aug-21	21-Nov-21	177	7										
AS023620	Procurement & PO for Elec. Materials	90 07-Apr-21	05-Jul-21	-	07-Sep-21	64	- : :										
AS104240	Fabrication & Delivery of Transfomers -UV (Tx 07 & 08) (S17)	120 12-Mar-22	09-Jul-22	22-Jun-22		102	2										
AS104260	Fabrication & Delivery of LVSB -UV (S17)	120 11-May-22	07-Sep-22				2										
AS104280	Fabrication & Delivery of Control & Monitoring System -UV (S18)	150 01-Sep-22	28-Jan-23	18-Oct-22	16-Mar-23	47	1										
AS501100	Fabrication & Delivery of Sludge Screening System (S2)	180 01-May-22	27-Oct-22	11-May-22	06-Nov-22	10	,										
AS501120	Fabrication of Sludge Thickening System (S3)	180 03-Oct-21	31-Mar-22	13-Oct-21	10-Apr-22	10	)										
AS501125c	FAT for Sludge Thickening System (S3)	14 18-Mar-22	31-Mar-22	28-Mar-22	10-Apr-22	10	1							_			
AS501130c	Delivery of Sludge Thickening System (S3)	60 01-Apr-22	30-May-22	11-Apr-22	09-Jun-22	10	4		·····					<b></b>			
AS501140	Fabrication & Delivery of Sludge Digestion System (S5)	180 23-Oct-21	20-Apr-22	31-Oct-21	28-Apr-22	8											
AS501150a	Fabrication & Delivery of FRP Walkway / Cover (S5)	240 26-Apr-21	21-Dec-21	-		8											
AS501160	Fabrication of Sludge Dewatering System (S6)	180 15-Jul-21	10-Jan-22	25-Jul-21	20-Jan-22	10	-										
AS501165c AS501170c	FAT for Sludge Dewatering System (S6) Delivery of Sludge Dewatering System (S6)	14 28-Dec-21 60 11-Jan-22	10-Jan-22 11-Mar-22	07-Jan-22 21-Jan-22		10	-										
AS501170c AS501180	Fabrication of THP System (S4)	300 04-Aug-21	30-May-22	21-Jan-22 28-Sep-21	21-Mar-22 24-Jul-22		· · · · · · · · · · · · · · · · · · ·						······································		·····		
AS501180 AS501200	FAT for THP System (S4)	14 17-May-22	30-May-22 30-May-22	11-Jul-22			- : :										
AS501200	Delivery of THP System (S4)	60 31-May-22	29-Jul-22		24-50-22 22-Sep-22		- : :										
AS501220	Fabrication & Delivery of Biogas Storage & Pre-Treatment (S7)	270 14-Aug-21*	10-May-22		24-May-22		- : :										
AS501260	Fabrication of CHP System (S8)	300 15-May-21*	10-Mar-22		31-Mar-22		- : :										
		, , . I						1	1		1 1	1		D=1-	Der der		Δ Δ
	File Name: DE/2018/03 RP R7				C	Contr	ract No. DE	/201	3/03					Date 30-Oct-20	Revisio Rev.3	on Checke	d Approved KM
	Layout: DE1803 RP (Feb 2021) - Critical Activity			Shek Wu	Hui Efflu	ent F	Polishing Pl	lant -	Main W	orks Stag	e 1			)2-Dec-20	Rev.3		KM
	WBS Page 16 of 20		Sidestre	am Treatm	ent Facili	ties	and E&M V	Nork	for Slu	ge Treatm	ent Fa	ciliteis		30-Dec-20	Rev.5		KM
JE	Page 16 of 20						gramme - a							26-Jan-21	Rev.6	LT	KM
							-						2	26-Feb-21	Rev.7	LT	КМ



Activity ID	Activity Name	Original Early Duration	/ Start	Early Finish	Late Start	Late Finish	Total 9 Float J	ASONDJFMAMJ								
AS501280	FAT for CHP Generators (S8)	14 25-F	Feb-22	10-Mar-22	18-Mar-22	31-Mar-22	21				156785	<u>          </u>	111111112	2 2 2 2 2 2 2 2 2	22333333	3333344
AS501300	Delivery of CHP Generators (S8)	60 11-N		09-May-22		30-May-22	21									
AS501320	Fabrication of Waste Gas Burning System (S9)	210 01-M		26-Sep-22	27-Mar-22	-	26									
AS501340	FAT for Waste Gas Steam Generation Boiler (S9)	14 13-9		26-Sep-22	09-Oct-22		26									
AS501360	Delivery of Waste Gas Burning System (S9)	60 27-5		25-Nov-22		21-Dec-22	26									
AS501380	Fabrication & Delivery of Plant Service Water System (S12)	120 11-J	•	10-May-22												
AS501400	Fabrication & Delivery of SAS Pumping System (S14)	120 17-1		16-Mar-22	· · ·	03-May-22	48									
AS501420	Fabrication of 11kV Transformers (S17)	120 10-J		09-May-22		04-Oct-22	-									
AS501440	FAT for 11kV Transformers (S17)	14 26-4		09-May-22		04-Oct-22							•			
AS501460	Delivery of 11kV Transfomers (S17)	60 10-1		08-Jul-22	· · ·	03-Dec-22										
AS501480	Fabrication of 380V Transformers (S17)	120 26-J	•	25-May-22		17-Sep-22										
AS501500	FAT for 380V Transfomers (S17)	14 12-1		25-May-22	-	17-Sep-22	115									
AS501520	Delivery of 380V Transfomers (S17)	60 26-N	•	24-Jul-22	· ·	16-Nov-22	115									
AS501520	Fabrication of 11 kV Switchboard (S17)	120 27-0	•	23-Feb-22	26-Mar-22		150									
AS501540 AS501560	FAT for 11 kV Switchboard (S17)	120 27-C		23-Feb-22	10-Jul-22		150									
	Delivery of 11 kV Switchboard (S17)												<u></u>			
AS501580		60 24-F		24-Apr-22		21-Sep-22										
AS501600	Fabrication of 380V Switchboard (S17)	120 29-4	•	26-Dec-21	22-Dec-21	•	115									
AS501620	FAT for 380V Switchboard (S17)	14 13-0		26-Dec-21	07-Apr-22		115					<b>•</b> ;				
AS501640	Delivery of 380V Switchboard (S17)	60 27-0		24-Feb-22	21-Apr-22		115									
AS501660b	Fabrication & Delivery of Pipeworks & Associated Valves	120 12-1		11-Mar-22	22-Nov-21		10	·····					<u></u>			
AS501680	Fabrication of Control & Monitoring System (S18)	300 01-0		26-Sep-22	22-Dec-21		21					:				
AS501700	FAT for SCADA System (S18)	30 27-5	•	26-Oct-22	18-Oct-22		21									
AS501720	Delivery of SCADA System (S18)	30 27-0	Oct-22	25-Nov-22	17-Nov-22	16-Dec-22	21									
AS501740	Fabrication & Delivery of Lifting Appliances (S19)	150 13-4	Aug-21	09-Jan-22	23-Aug-21	19-Jan-22	10									
AS501780	Fabrication & Delivery of H2S Removal System (S7)	150 21-4	Apr-22	17-Sep-22	29-Apr-22	25-Sep-22	8									
AS501800	Fabrication & Delivery of DO System (S21)	150 25-J	Jun-22	21-Nov-22	03-Jul-22	29-Nov-22	8									
AS501820	Fabrication & Delivery of Stoplog (S21)	270 15-J	Jun-21	11-Mar-22	25-Jun-21	21-Mar-22	10									
AS501840	Fabrication & Delivery of Penstock (S21)	270 15-J	Jun-21	11-Mar-22	25-Jun-21	21-Mar-22	10									
AS501860	Fabrication & Delivery of Sewage Pump (S21)	150 05-J		03-Jun-22	19-Jan-22		14									
AS501880	Fabrication & Delivery of Process Water Pump (S21)	120 29-4		26-Dec-21		21-Nov-22	330									
AS501900	Fabrication & Delivery of External Sludge Transfer Pump (S21)	150 13-9	-	09-Feb-23		27-Feb-23	18									
AS501920	Fabrication & Delivery of THP Cooling Pump (S21)	150 19-9		15-Feb-23		23-Feb-23	8									
AS501940	Fabrication & Delivery of Ferric Chloride Storage Tank (S21)	90 05-N		02-Aug-22		16-Aug-22	14									
AS501960	Fabrication & Delivery of Ferric Chloride Dosing Pump (S21)	150 05-4		01-Sep-22		15-Sep-22	14									
AS501980	Fabrication & Delivery of Temporary Primary Sudge Pump (S21)	150 05-N	•	01-Oct-22	· · ·	15-Oct-22	14									
AS501980	Fabrication & Delivery of Genset	210 31-	•	26-Dec-21		14-May-22	139									
			,			05-Jan-22	64					<b></b>				
AS510060	Fabrication & Delivery of Elec. Materials	120 06-		02-Nov-21			-									
AS510080	Fabrication & Delivery of Gas Detection System	150 29-J	Jui-22	25-Dec-22	24-Aug-22	20-Jan-23	26									
Sludge Dewate							10									
	Mobilisation	15 26-0	Jec-21	09-Jan-22	05-Jan-22	19-Jan-22	10									
Sludge Dewat																
AS502120	E&M Installation of Process Water Pump (S21)	60 10-J		10-Mar-22		03-Feb-23	330									
AS502140	E&M Installation of EOT Crane LA-01-02	75 10-J		25-Mar-22		04-Apr-22	10									
AS502150	E&M Installation of Monorail LA-01-04	60 09-J		07-Aug-22		21-Sep-22	45									
AS502160	E&M Installation of Sludge Dewatering System (S6)	180 26-1	Mar-22	21-Sep-22	05-Apr-22	01-Oct-22	10						· · · · · · · · · · · · · · · · · · ·			
Sludge Screen																
AS502180	E&M Installation of Monorail LA-01-01	60 08-4	Aug-22	06-Oct-22	22-Sep-22	20-Nov-22	45									
AS502200	E&M Installation of Sludge Screening System (S2)	135 11-N	Nov-22	25-Mar-23	21-Nov-22	04-Apr-23	10									
AS502220	E&M Installation of External Sludge Transfer Pump (S21)	30 24-F	Feb-23	25-Mar-23	14-Mar-23	12-Apr-23	18									
Sludge Thicke	ening (STh)															
AS502260	E&M Installation of EOT Crane LA-01-03	90 11-N	Mar-22	08-Jun-22	26-Mar-22	23-Jun-22	15					•••••				
AS502280	E&M Installation of Sludge Thickening System (S3)	180 14-J		10-Dec-22		20-Dec-22	10									
Building Servi																
AS502300	FS Installation - Conduits, Trunking, & Pipeworks	120 10-1	Mar-22	07-Jul-22	23-Jan-23	22-May-23	319									
AS502320	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	120 09-1		05-Sep-23		19-Sep-23	14									
AS502340	BS Fitting Installation - Conduits, Trunking, & Ductworks	120 06-5		03-Jan-23		18-Feb-23	46									
				1			Ľ	! _ ! 	: !	: 1 !	: !	!	Date	Revision	n Checked	Approve
	File Name: DE/2018/03 RP R7							ct No. DE/2018/03					30-Oct-20	Rev.3	LT	KM
	Layout: DE1803 RP (Feb 2021) - Critical Activity				Shek Wu	Hui Efflue	ent Po	olishing Plant - Ma	in Work	s Stage 1			02-Dec-20	Rev.4	LT	KM
	WBS ••••			Sidestrea	m Treatm	nent Facilit	ties a	nd E&M Works for	Sluge T	reatment	Facilitei	s	30-Dec-20	Rev.5		KM
100	Page 17 of 20							amme - as at 20 Fe	-				26-Jan-21	Rev.6		KM
JEC						Revised	11051						26-Feb-21	Rev.7	LT	KM

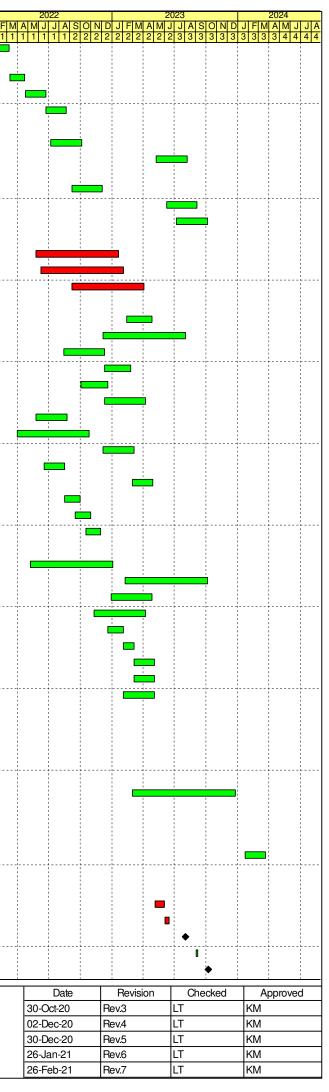
Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	9 ILALSIOINI D	JEM		2021		2022	ALSION			
40500000			07 1	10 F-h 00	10 1 00	Tioat			AMJJASOND. -9	123456	789111		1 2 2 2	222222	233333	3 3 3 3 4 4 4
AS502360 AS502380	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices Installation of Control & Monitoring System	120 08-Feb-23 120 11-Dec-22	07-Jun-23 09-Apr-23			11										
AS502380 AS502400	Installation of CCTV System	120 11-Dec-22	09-Apr-23		•	10 10										
AS502400 AS502410	Installation of Gas Detection System	60 09-Apr-23	09-Api-23 07-Jun-23	21-Dec-22 20-Apr-23	•	11										
AS506500b	·	180 10-Jan-22	08-Jul-22	29-May-22		139										
Tx Rm			00 bui 22	20 May 22	LA NOV LL	100										
AS502420	BS Fitting Intallation	90 26-Mar-22	23-Jun-22	02-Sep-22	30-Nov-22	160										
AS502440	E&M Installation of 380V Transformers (S17)	90 08-Aug-22	05-Nov-22	01-Dec-22												
LV Switchroo		00 00 Mg														
AS502460	BS Fitting Intallation	75 10-Jan-22	25-Mar-22	05-May-22	18-Jul-22	115										
AS502480	E&M Installation of LVSB at G/F (S17)	90 11-Mar-22	08-Jun-22	-	01-Oct-22											
AS502500	E&M Installation of LVSB at 1/F (S17)	90 10-May-22	07-Aug-22	02-Sep-22												
AS502520	Ready for Energisation	5 06-Nov-22	10-Nov-22	01-Mar-23									0			
Tx Rm & LV Sv	vitchroom (for UV)				1											
AS105120	BS Fitting Intallation (at Tx Rm & LV Switchroom)	60 25-May-22	23-Jul-22	04-Sep-22	02-Nov-22	102										
AS105140	E&M Installation of Transfomers in Tx Rm	60 24-Jul-22	21-Sep-22	03-Nov-22	01-Jan-23	102						[				
AS105160	E&M Installation of LVSB	60 22-Sep-22	20-Nov-22	02-Jan-23	02-Mar-23	102							<b>—</b>			
AS105180	Ready for Permanet Power Energisation	3 21-Nov-22	23-Nov-22	03-Mar-23	05-Mar-23	102							1			
	t & Power Building															
Combined He	at & Power Generation (CHP)															
AS503100	Mobilisation	14 24-Feb-22	09-Mar-22	03-Mar-22	16-Mar-22	7						0				
AS503120	E&M Installation of EOT Crane No. 1	75 10-Mar-22	23-May-22	17-Mar-22	-	7										
AS503140	E&M Installation of EOT Crane No. 2	75 24-Apr-22	07-Jul-22	05-Jun-22	18-Aug-22	42										
AS503160	E&M Installation of CHP System (S8)	230 24-May-22	08-Jan-23	31-May-22	15-Jan-23	7										
Building Servi																
AS503180	FS Installation - Conduits, Trunking, & Pipeworks	120 10-Mar-22	07-Jul-22	27-Jun-22		109										
AS503200	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90 08-Feb-23	08-May-23	22-Feb-23	22-May-23	14										
40500000	DO Entre la telletica - Occalette - Tractica - O Distance de	100 10 10 10 00	05.0	05 4	01.0-1.00	40							_			
AS503220	BS Fitting Installation - Conduits, Trunking, & Ductworks	180 10-Mar-22	05-Sep-22	25-Apr-22		46										
AS503240	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90 10-Nov-22	07-Feb-23			11										
AS503260	Installation of Control & Monitoring System Installation of CCTV System	120 10-Dec-22	08-Apr-23	17-Dec-22 05-Jan-23	15-Apr-23	/										
AS503280 AS503290	Installation of Gas Detection System	90 10-Dec-22 75 09-Jan-23	09-Mar-23 24-Mar-23		· · ·	26										
11kV Switchro		75 09-5411-25	24-1VId1-23	04-Feb-23	19-Api-23	26										
AS503300	BS Fitting Installation	60 10-Mar-22	08-May-22	21-Jun-22	19- <b>A</b> ug-22	103										
A0000000		00 10 Mai 22	00 Way 22	21 0011 22	15 Aug Zz	100										
AS503320	E&M Installation of 11kV Switchboard (S17)	75 09-May-22	22-Jul-22	06-Oct-22	19-Dec-22	150										
AS503340	Main Cables Laying between 11kV SwitchRoom of CHP Bldg to Tx Rm of Workshop No 2	60 21-Jun-22	19-Aug-22	18-Nov-22	16-Jan-23	150										
Tx Rm																
AS503360	BS Fitting Installation	60 09-May-22	07-Jul-22	20-Aug-22	18-Oct-22	103										
AS503380	E&M Installation of 11kV Transfomers (S17)	60 23-Jul-22	20-Sep-22	18-Dec-22	15-Feb-23	148						(				
LV Switchroo	m															
AS503400	BS Fitting Intallation	60 08-Jul-22	05-Sep-22	19-Oct-22	17-Dec-22	103										
AS503420	E&M Installation of LVSB at 1/F (S17)	90 06-Sep-22	04-Dec-22	18-Dec-22			i i							1		
	Ready for Energisation	3 05-Dec-22	07-Dec-22	18-Mar-23	20-Mar-23	103								1		
	ers & Distribution Chamber															<u> </u>
Sludge Digest																
	FRP Walkway / Cover Installation	120 05-Jan-22	04-May-22	13-Jan-22	-	8										
AS503600	E&M Installation of Sludge Digestion System (S5)	230 05-May-22	20-Dec-22	13-May-22	28-Dec-22	8							I I	-		
Workshop No.																
	Mobilisation	14 27-Sep-21	10-Oct-21	22-Feb-22	07-Mar-22	148										
CLP Substatio																
AS504100	BS Fitting Intallation (at CLP Sub-station in Workshop No.2)	60 11-Oct-21	09-Dec-21	08-Mar-22	-											
AS509940a	Inspections, Rectification & H/O to CLP	60 10-Dec-21	07-Feb-22		05-Sep-22		i i i									
AS509960	E&M Installation of HV Transformer (By CLP)	180 08-Feb-22	06-Aug-22	06-Sep-22			i i									
AS509980	Energisation (By CLP)	1 07-Aug-22	07-Aug-22	05-Mar-23	uo-iviar-23	210							·			
11kV HV Swit	BS Fitting Intallation	60 10-Nov-21	08-Jan-22	07-Apr-22	05- lun 22	1/0										
AS204200		00 10-NOV-21	uo-Jan-22	07-Apr-22	05-Juli-22	148										
	File Name: DE/2018/03 RP R7				С	ontr	act No. D	E/201	8/03				ate	Revision	Checked	Approved
	Layout: DE1803 RP (Feb 2021) - Critical Activity			Shek Wu				-	Main Works St	age 1		30-Oct- 02-Dec		Rev.3 Rev.4		KM KM
	WBS		Sidestre				-		s for Sluge Trea	-	iliteis	30-Dec		Rev.4 Rev.5		KM
100	Page 18 of 20		2.2.000						20 Feb 2021			26-Jan		Rev.6		KM
JEC						5						26-Feb		Rev.7	LT	KM
	I											l				•

vity ID	Activity Name		Early Start	Early Finish	Late Start	Late Finish	Total				2020				021	
		Duration					Float	A S O I	• D J	9		A S O N E	/ J F	2345	6 7 8	9 1 1
AS504240	E&M Installation of 11kV HVSB (at Workshop No.2)	60	09-Jan-22	09-Mar-22	06-Jun-22	04-Aug-22	148									
AS504260	Main Cables Laying between Workshop No.2 & Tx Rm for UV System No.1		10-Mar-22	23-Apr-22	05-Aug-22											
AS504280	Main Cables Laying between Workshop No.2 & Tx Rm for Sludge Dewatering Bldg		24-Apr-22	22-Jun-22	19-Sep-22		148									
AS504300	Main Cables Laying between Workshop No.2 & Tx Rm for CHP Bldg	60	23-Jun-22	21-Aug-22	18-Nov-22	16-Jan-23	148									
Building Servi																
AS504400a	FS Installation - Conduits, Trunking, & Pipeworks		08-Jul-22	05-Oct-22	23-Apr-23	21-Jul-23										
AS504410a	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90	09-May-23	06-Aug-23	22-Jul-23	19-Oct-23	74									
AS504420a	BS Fitting Installation - Conduits, Trunking, & Ductworks	90	06-Sep-22	04-Dec-22	07-Feb-23	07-May-23	154									
AS504430a	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices		08-Jun-23	05-Sep-23	14-Jul-23	11-Oct-23	36						+			<u>+</u>
AS504450	Installation of CCTV System		08-Jul-23	05-Oct-23	13-Aug-23		36									-
	e & Pre-Treatment (BSPT)	00	00 001 20	00 001 20	107109 20	101107 20										-
AS504500	E&M Installation of Biogas Storage Tank 1	240	25-May-22	19-Jan-23	25-May-22	19-Jan-23	0									-
AS504520	E&M Installation of Biogas Storage Tank2		09-Jun-22	03-Feb-23	09-Jun-22		0									-
AS504520	E&M Installation of Biogas Storage Tank3		07-Sep-22	04-Apr-23		04-Apr-23	0									
Miscellaneous		210	07-0ep-22	04-Api-20	07-0ep-22	04-Api-23	0									
AS106300	Installation of Control & Monitoring System - UV	75	12-Feb-23	27-Apr-23	31-Mar-23	13-Jun-23	47									-
AS504460	Installation of Lift		05-Dec-22	01-Aug-23	08-May-23	02-Jan-24	154									-
AS505000	E&M Installation of THP System (S4)		13-Aug-22	10-Dec-22	07-Oct-22		55									-
AS505100	E&M Installation of Thickened Sludge Feed Pipe to THP System		11-Dec-22	23-Feb-23	05-Jan-23	20-Mar-23	25						++-			¦
AS505200	E&M Installation of H2S Removal System (S7)		02-Oct-22	20-Dec-22	10-Oct-22	28-Dec-22	8									-
AS505300	E&M Installation of Waste Gas Burning System (S9)		10-Dec-22	08-Apr-23	05-Jan-23	04-May-23	26									-
AS505400	E&M Installation of Plant Service Water System (S12)		25-May-22	22-Aug-22	04-Feb-23	04-May-23	255									-
AS505600	E&M Installation of SAS Pumping System (S14)		31-Mar-22	26-Oct-22	18-May-22	-	48									
AS505000 AS505700	E&M Installation of DO System (S21)		06-Dec-22	05-Mar-23	14-Dec-22		40 Q									
AS506000	E&M Installation of Sewage Pump (S21)		18-Jun-22	16-Aug-22	02-Jul-22		14									
AS506000	E&M Installation of THP Cooling Pump (S21)		02-Mar-23	30-Apr-23	10-Mar-23	-	0									
				· ·			0 14									
AS506200 AS506300	E&M Installation of Ferric Chloride Storage Tank (S21) E&M Installation of Ferric Chloride Dosing Pump (S21)		17-Aug-22 16-Sep-22	30-Sep-22 30-Oct-22	31-Aug-22 30-Sep-22		14									
AS506300 AS506400	E&M Installation of Temporary Primary Sludge Pump (S21)		16-Sep-22 16-Oct-22	29-Nov-22	· ·	13-Nov-22 13-Dec-22										
Building Servic		40	10-00-22	29-1100-22	30-00-22	13-Dec-22	14									
AS507000	FS Installation - Conduits, Trunking, & Pipeworks	240	09-May-22	03-Jan-23	26-Aug-22	22-Apr-23	109									
AS507000	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices		08-Feb-23	05-Oct-23	22-Feb-23	•	14									
	Installation of Control & Monitoring System		29-Dec-22	27-Apr-23		04-May-23	7									
AS507200 AS507300	Installation of CCTV System		10-Nov-22	08-Apr-23		04-May-23	26									
AS507300	BS Installation for Sludge Digester		21-Dec-22	03-Feb-23	00-Dec-22 04-Feb-23	-	45									
AS507700 AS507800	BS Installation for THP Facilities		04-Feb-23	05-Mar-23	20-Apr-23		45 75									
AS507800 AS507900	BS Installation for Biogas Holding Tanks		04-1 eb-23 06-Mar-23	03-May-23	20-Apr-23 21-Mar-23	-	15									
AS507900			06-Mar-23	-	21-Mar-23	,	15									
AS508000 AS508100	BS Installation for Sewage Pumping Station BS Installation for Other Facilities		06-1viar-23 04-Feb-23	04-May-23 04-May-23		,	15									
	nission / Inspection	90	04-Feb-23	04-1viay-23	19-Feb-23	19-May-23	15									
CLP Submiss																
AS512375f	Submission & Approval of Electrical Schematic Wiring Diagram to CLP	180	14-Jan-21 A	12-Jul-21	04-Dec-21	24-Apr-22	286									
	ion / Inspection	100	14 Out 217	12 001 21	04 000 21		200								-	-
AS509500a	EPD Submission & Approval for Air Pollution Control - Genset	180	14-Jul-21	09-Jan-22	30-Nov-21	28-May-22	139						+			<u>+</u>
AS509520a	EPD Submission & Approval for Air Pollution Control - CHP, CAPC, Flare		01-Mar-23*	25-Dec-23	31-Mar-23	-										
	ssion / Inspection	500		20 000 20	01 War 20	24 0411 24	00									
AS509370b	BEEO Stage one: Submit EE1 & EE-SU to EMSD	60	18-Apr-21	16-Jun-21	24-Dec-21	21-Feb-22	250									
A33033700	DELO Stage one. Submit EET & EE-SO to Elviso	00	10-70-21	10-0011-21	24-060-21	21-100-22	230									
AS509375f	BEEO Stage two: Submit EE2 & EE-SU to EMSD	60	22-Jan-24	21-Mar-24	05-Feb-24	04-Apr-24	14									-
AS509380b	Application & Approval of the Zone Classification of Hazardous Area - including Fire Risk Asse		16-Apr-21	12-Oct-21	09-Nov-22	•										• <mark> </mark>
AS509400a	Application for Construction Approval of Notifiable Gas Installation (Form 104)		16-Apr-21	12-Oct-21	09-Nov-22	,									-	þ
AS509420a	Application for Approval of Use of Notifiable Gas Installation (Form 105)		06-May-23	02-Jun-23	08-May-23	04-Jun-23	2									1
AS509440a	EMSD Inspection - Gas Holding Tanks		03-Jun-23	16-Jun-23	05-Jun-23	18-Jun-23	2									-
AS509450f	Form 5 Submission to EMSD - Lift Installation		02-Aug-23		03-Jan-24		154									
AS509460f	EMSD Inspection - Lift Installation		01-Sep-23	07-Sep-23	02-Feb-24	08-Feb-24	154						++-			
AS509470f	Issuance of Form 6 - Lift Installation	0	5. 50p 20	07-Oct-23	0_100L1	09-Mar-24	154									-
/ 0000-7/01		0		07 001 20		00 mai 24			:		1		1		1	<u>!</u>

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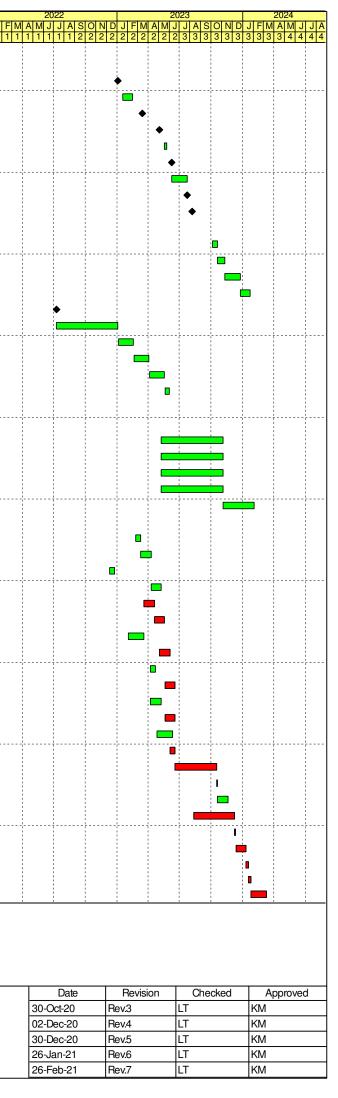


Activity ID	Activity Name		Early Start	Early Finish	Late Start	Late Finish	Total		20	020		2021	
		Duration					Float	IASONDJFM	AMJ	JJASONC	JFMA	MJJA	SONDJF
WSD Sut	nission / Inspection									<u>  -  -  -  -  -  -  -</u>		41510171	
AS50930		30	28-Apr-21	27-May-21	27-Sep-21	26-Oct-21	152						
AS50934	0 Submit WWO46 Part IV to WSD (FS)		04-Jan-23	,	11-Aug-23		219						
AS50936	0 WSD Inspection (FS)	28	18-Jan-23	14-Feb-23	25-Aug-23	21-Sep-23	219				+		
AS50936		0		14-Mar-23		19-Oct-23	219						
AS5093	0f Submit WWO46 Part IV to WSD (PD)	0	05-May-23		07-Dec-23		216						
AS50938	Of WSD Inspection	7	19-May-23	25-May-23	21-Dec-23	27-Dec-23	216						
AS50939		0		08-Jun-23		10-Jan-24	216						
AS50940		45	09-Jun-23	23-Jul-23	11-Jan-24	24-Feb-24	216				+		
AS5094		0		23-Jul-23		24-Feb-24	216						
AS50942	Of Issuance of Water Certificate	0		06-Aug-23		09-Mar-24	216						
FSD Sub	ission / Inspection			Ū									
AS50912		14	06-Oct-23	19-Oct-23	20-Oct-23	02-Nov-23	14						
AS50912		21	20-Oct-23	09-Nov-23	03-Nov-23	23-Nov-23	14				+		
AS50914		45	10-Nov-23	24-Dec-23	24-Nov-23	07-Jan-24	14						
AS50920		28	25-Dec-23	21-Jan-24	08-Jan-24	04-Feb-24	14						
AS50922			09-Jul-22		25-Nov-22		139						
AS50924			09-Jul-22	04-Jan-23	25-Nov-22	23-May-23	139						
AS5092			05-Jan-23	18-Feb-23	24-May-23	07-Jul-23	139				+		
AS50920			19-Feb-23	04-Apr-23	08-Jul-23	21-Aug-23	139						
AS50928			05-Apr-23	19-May-23	22-Aug-23	05-Oct-23	139						
AS50930			20-May-23	02-Jun-23	06-Oct-23	19-Oct-23	139						
	Commissioning												
	ntrol Monitoring System										+		
AS51238		180	09-May-23	04-Nov-23	14-Jun-23	10-Dec-23	36						
AS51239			09-May-23	04-Nov-23	14-Jun-23	10-Dec-23	36						
AS51240			09-May-23	04-Nov-23	14-Jun-23	10-Dec-23	36						
AS5124			09-May-23	04-Nov-23	14-Jun-23	10-Dec-23	36						
AS51242			05-Nov-23	02-Feb-24	11-Dec-23	09-Mar-24	36				+		
	M Process				1								
AS51010		15	24-Feb-23	10-Mar-23	21-Mar-23	04-Apr-23	25						
AS51020			11-Mar-23	09-Apr-23	05-Apr-23	04-May-23	25						
AS51030			11-Dec-22	25-Dec-22	06-Mar-23	20-Mar-23	85						
AS51040			10-Apr-23	09-May-23	20-Apr-23		10				+		
AS51050			21-Mar-23	19-Apr-23	21-Mar-23	19-Apr-23	0						
AS5106			20-Apr-23	19-May-23	20-Apr-23	19-May-23	0						
AS51070			04-Feb-23	20-Mar-23	21-Mar-23	04-May-23	45						
AS51080			05-May-23	03-Jun-23	05-May-23	03-Jun-23	0						
AS51090			09-Apr-23	23-Apr-23	05-May-23	19-May-23	26				+		
AS51100			20-May-23	18-Jun-23	20-May-23	18-Jun-23	0						
AS51110			09-Apr-23	08-May-23	20-Apr-23	19-May-23	11						
AS51120			20-May-23	18-Jun-23	20-May-23	18-Jun-23	0						
AS51130			28-Apr-23	11-Jun-23	05-May-23	18-Jun-23	7						
AS51210			05-Jun-23	18-Jun-23	05-Jun-23	18-Jun-23	0				· • • • • • • • • • • • • • • • • • • •		
AS51220			19-Jun-23	16-Oct-23	19-Jun-23	16-Oct-23	0						
AS51220			17-Oct-23	19-Oct-23	09-Dec-23	11-Dec-23	53						
AS5124			20-Oct-23	18-Nov-23	12-Dec-23	10-Jan-24	53						
AS51240			11-Aug-23	08-Dec-23	11-Aug-23	08-Dec-23	0						
AS51250			09-Dec-23	11-Dec-23	09-Dec-23	11-Dec-23	0				· †		
AS51200 AS51270			12-Dec-23	10-Jan-24	12-Dec-23	10-Jan-24	0						
AS51270 AS51280			11-Jan-24	17-Jan-24	11-Jan-24	17-Jan-24	0						
AS51200			18-Jan-24	24-Jan-24	18-Jan-24	24-Jan-24	0						
AS5130			25-Jan-24	09-Mar-24	25-Jan-24	09-Mar-24	0						



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rinage Services De				Muent Polishing Plant		1 E&M Works for Sewage Treatment Facilities		P	A
WBS	Task Name	between Task	loat Time Predecessors	Successors	Resource Names	2020 Hull 1, 2020 N J M M J	0 Hull 1,1	2071 Holf 2, 2021 Holf 2, 2021 Holf 2, 2022 Holf 2, 2022 Holf 2, 2022 J S J S J S J S J S J S J S J S J S J	2023 Half 5, 2023 Half 5, 2023 Half 5, 2023
11	DE/2018/04 - Contract Master Programme	Start and Finish 1990 days Mon 02/12/19 Tue 13/05/25	0 days				S N I		
21.1	Storting Date	0 days Mon 02/12/19 Mon 02/12/15	0 days	355+1625 edays,62.		0.02/12	_		
31.2	Completion Date	0 doys Tue 14/05/24 Tue 14/05/24	0 days 255+1625 edays,	15.4			_		
41.3	Defect Dates with respect to Completion Date	365 days Tue 14/05/24 Tue 13/05/25	O days 3						
52	Access Dates	1599 days Mon 02/12/19 Thu 18/04/24	0 days						
62.1	Access Date for Works Area WA1-C	90 days Mon 02/12/19 Sat 29/02/20	0 days			12 MAInG 29/02			
72.2	Access Date for Works Area WA2-C	90 days Mon 02/12/19 Sat 29/02/20	0 days			12 WA2-C 29/02			
12.1	Access Date for Violas Area Walks	150 edays Tue 28/06/22 Fri 25/11/22	0 edays					28/06 HW	25/11
92.4	Access Date for Portion B-2, mes violas no. 1 Access Date for Portion B-3, PST No. 1"4	90 edays Sat 14/01/23 Fri 14/04/23	0 edays						14/01 #PST 14/04
	Access Date for Portion B-3, P31 No. 1-4 Access Date for Portion B-3A, Existing PST No. 4 and No. 6	0 days Mon 02/12/19 Mon 02/12/11	0 days	-		e 02/12			
0.2.5		0 days Mon 02/12/19 Mon 02/12/15	0 days			02/12			
12.6	Access Date for Portion B-38, Temporary Filtrate Lifting Well and Eq. Tank	90 edays Fri 25/11/22 Thu 23/02/23	0 edays					25/11	BR 23/02
2 2.7	Access Date for Portion B-4, BR 2A & 28		0 edays					20/12 MIS 20/03	
2.8	Access Date for Portion B-5A, MFB No. 2 below 1st floor level	90 edays Mon 20/12/21 Sun 20/03/22	2012 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					19/05 MFS 17/08	
2.9	Access Date for Portion B-58, MFB No. 2 remaining portion	90 edays Thu 19/05/22 Wed 17/08/22	0 edays					20/12 Citemical 19/05	
52.10	Access Date for Portion B-7 & 78, Chemical Dosing, Concrete Plinth for DOs, Chemical Sys 1 & 2		0 edays	-		o 02/12			
\$2.11	Access Date for Portion B-7A & 78, area for modification of existing emergency generator elect		0 edays						18/02
2.12	Access Date for Portion B-98, underground pipework	60 edays Sun 18/02/24 Thu 18/04/24	0 edays	-					.0.00
2.13	Access Date for B-10, existing sludge thickening building	0 edays Mon 02/12/19 Mon 02/12/11	0 edays			e 02/12			
3	Key Dates	555 days Mon 02/12/19 Wed 09/06/2	0 days						
03.1	KD1A - Submission of civil and dimensional requirement drawings, electrical schematic drawing		0 edays 31#F				€ 06/11	- 04/05	
3.2	KD18 - Submission of remaining civil and dimensional requirement drawings, electrical schema		0 edays 32FF					■ 04/06	
13.3	KD3A - Completion of E&M Installation works of existing power house in Portions B-7A and B-7		0 edays 33fF			¶ <sup>25</sup>			
3 3,4	KD38 - Completion of all work for reprovision of the existing Primary Sedimentation Tanks No.	555 edays Mon 02/12/19 Wed 09/06/21	0 edays 34FF					e. 09/06	
4	Sectional Completion Dates	1625 days Mon 07/12/19 Tue 18/05/24	0 days						
54.1	Section 1 - Completion of the design of E&M Works for all works as defined in WI_GP CI. 10.1(z	600 edays Mon 02/12/19 Sat 24/07/21	Q edays 35FF					<b>4</b> ,24/07	
4.2	Section 2 - Completion of all works for Inlet Works, PST No. 1~4, BR No. 2A & 2B, MFB No. 2, te	1600 edays Mon 02/12/19 Fri 19/04/24	0 edays 36FF					Converto I	
74.3	Section 3 - Completion of all works for retrofitting of the existing PSTetc (660 days after start)	660 edays Mon 02/12/19 Wed 22/09/21	0 edays 37FF					22/09	
14.4	Section 4 - Completion of Work for remainder of the works (1625 days after starting date)	1625 edays Mon 02/12/19 Tue 14/05/24	0 edays 38FF						
95	DE/2018/04 - the Contractor's Programme (w/ Defects Date of Planned Completion Date)	1977 days Mon 02/12/19 Wed 30/04/2	0 days						
05.1	Starting Date	0 days Mon 02/12/19 Mon 02/12/15	0 days	623,19755+30 eday	1	0.02/12			
15.2	Planned Key Date Completion Date - KD1A	0 days Eri 30/10/20 Eri 30/10/20	Zdays	ZOEE			KO1A . 30/10		
25.3	Planned Key Date Completion Date - KD18	0 days Tue 03/06/21 Tate 01/06/21	3.dan	211FE				KD18	
35.4	Planned Key Date Completion Date - KD3A	0 days Wed 22/07/20 Wed 22/07/20	Zslava	2211		КD3A 🛖 22	07		
45.5	Planed Key Date Completion Date - KD3B	0 days Mon 07/06/21 Mon 07/06/2)	2.davi	ZHE				козв	
5.5.6	Planed Sectional Completion Date - Section 1	0 days Mon 12/07/21 Men 12/07/21	11 days	2588				-12/07	
65.7	Planned Sectional Completion Date - Section 2	0 days Mon 01/04/24 Mon 01/04/24	18 days	26FF					
75.8	Planned Sectional Completion Date - Section 2	0 days Wed 01/09/21 Wed 01/09/21	21 days	2765				eovice	
85.9	Planed Sectional Completion Date - Section 4	0 days Wed 01/05/24 Wed 01/05/24	13 days	28FF					
	Planned Sectional Completion Date	0 days Wed 08/05/24 Wed 08/05/24	5 days 1271,1272,1273,						
95.10		365 days Wed 01/05/24 Wed 30/04/25	0 days	1					
15.12	Defect Dates with respect to planned completion date	645 days Wed 01/07/20 Wed 06/04/2:	Contract of the second s			-	_		
	Part A: Procurement and Delivery of Major Plant and Materials	0 days Thu 03/06/21 Thu 03/06/21	0 days 3055+550 days			-		jeth 03/06	
25.12.1	Planned Completion Date for Procurement of major plant and materials		0 days 0 days					- And Alexandre	
35.12.2	General - stoplogs and penstocks, C11, EQT013	120 days Wed 01/07/20 Wed 28/10/20 60 days Wed 01/07/20 Sat 29/08/20	0 days	45					
15.12.2.1	Submission for acceptance of purchasing package			45					
5.12.2.2	Invitation of quotations for purchasing package	30 days Sun 30/08/20 Mon 28/09/20	0 days 44						
5.12.2.3	Acceptance of conforming quotation (Completed)	30 days Tue 29/09/20 Wed 28/10/20	0 days 45	248			_		
75.12.3	General - Instrumentations except use at BR, C11, EQT035-1	460 days Sat 02/01/21 Wed 06/04/2:	535 days			-			
85.12.3.1	Submission for acceptance of purchasing package	60 days Sat 02/01/21 Tue 02/03/21	0 days	49			_		
95.12.3.2	Invitation of quotations for purchasing package	30 days Wed 03/03/21 Thu 01/04/21	O days 48	50					
0.5.12.3.3	Acceptance of conforming quotation	30 days Fri 02/04/21 Sat 01/05/21	O days 49	51					
15.12.3.4	Manufacturing and Factory Acceptance Test of Plant	280 days Sun 02/05/21 Sat 05/02/22	O days 50	52				1	
25.12.3.5	Shipping and Delivery of Plant	60 days Sun 06/02/22 Wed 06/04/22	178 days 51	330,460,742					
15.12.4	General - pipework and valves, C11, ref. EQT036 (Rev. 5)	120 days Mon 02/11/20 Mon 01/03/2:	17 days					-	
4 5.12.4.1	Submission for acceptance of purchasing package	60 days Mon 02/11/20 Thu 31/12/20	O days	55			-		
5 5.12.4.2	Invitation of quotations for purchasing package	30 days Fri 01/01/21 Sat 30/01/21	O days 54	56			-		
65.12.4.3	Acceptance of conforming quotation	30 days Sun 31/01/21 Mon 01/03/21	O days 55	248,294,523,646,64	(		*		
75.12.5	General - electric actuators, C11, ref. EQT042	72 days Wed 02/12/20 Thu 11/02/21	35 days						
85.12.5.1	Submission for acceptance of purchasing package	30 days Wed 02/12/20 Thu 31/12/20	O days	59					
100/0				-				utili tudio	
- In	Aldestane + Project Summary     Late	Critical Split	Manual Progr	isi	Milestone (Actual)	•			
10	tiloos, Tentative 🖲 Summary Manual Summary I Otic	al Progress	Slack (Float)		• Slack				
2018/04									

0	valnage Services I	legariment			Shek Wu Hui I	Muent Polishing Pla	oosed Work Programm ant - Main Works Stage	1 E&M Works for Sewage Treatment Facilities
1	was	Task Name	Duration Start between Task	Finish	Roat Time Predecessors	Successors	Resource Names	2000 Harft
	59.5.12.5.2	Invitation of quotations for purchasing package	Start and Finish 21 days Fri 01/01/21	Thu 21/01/21	0 days 58	60	4	D000         2021         R022         R023         R024         R023         R024         R025          R025         R025 <th< td=""></th<>
	60 5.12.5.3	Acceptance of conforming quotation	21 days Fri 22/01/21		18 days 59	248,294,523,646,	64	
	61 5.12.6	General - HV Switchboards, C9, ref. EQT031 (Rev. 5)	105 days Mon 04/01/21		25 days	r ofer forstand	<b></b>	
			45 days Mon 04/01/21			63		
	62 5.12.6.1	Submission for acceptance of purchasing package	30 days Thu 18/02/21		0 days 62	64		
	63 5.12.6.2	Invitation of quotations for purchasing package	30 days Sat 20/03/21		0 days 63	651,252		
	64 5.12.6.3	Acceptance of conforming quotation	120 days Mon 04/03/21			031,232		
	65 5.12.7	General - LV Switchboards, C9, ref. EQT033 (Rev. 5)			0 days	67		
	66 5.12.7.1	Submission for acceptance of purchasing package	60 days Mon 04/01/21 30 days Fri 05/03/21		0 days 66	68		
	67 5.12.7.2	Invitation of quotations for purchasing package				251,526,397,650		
	68 5.12.7.3	Acceptance of conforming quotation	30 days Sun 04/04/21			251,520,397,950		
	69 5.12.8	General - VSDs & Passive Type Harmonic Filters, C11, ref. EQT034 (Rev. 5)	323 days Fri 01/01/21		403 days		1	
	70 5.12.8.1	Submission for acceptance of purchasing package	60 days Fri 01/01/21			71		
	71 5.12.8.2	Invitation of quotations for purchasing package	30 days Tue 02/03/21			72		
	72 5.12.8.3	Acceptance of conforming quotation	30 days Thu 01/04/21		23 days 71	249,395,524,647		
	73 5.12.8.4	Manufacturing and Factory Acceptance Test of Plant	90 days Thu 08/07/21		0 days 249,395,524,647			
	74 5.12.8.5	Shipping and Delivery of Plant to LVSB Sub-Contractor	45 days Wed 06/10/21		0 days 73	28755-90 edays	5	
	75 5.12.9	General - 11kV/380V Stepdown Power Transformers, C11, EQT032 (Rev. 5)	110 days Mon 18/01/21		20 days			
	76 5.12.9.1	Submission for acceptance of purchasing package	50 days Mon 18/01/21			77		
	77 5.12.9.2	Invitation of quotations for purchasing package	30 days Tue 09/03/21			78		
	78 5.12.9.3	Acceptance of conforming quotation	30 days Thu 08/04/21		26 days 77	249,647		
	79 5.12.10	General - UPS, C11, EQT061 (Rev. 5)	105 days Mon 08/02/21					
	80 5.12.10.1	Submission for acceptance of purchasing package	45 days Mon 08/02/21	Wed 24/03/21	0 days	81		
	81 5.12.10.2	Invitation of quotations for purchasing package	30 days Thu 25/03/21	Fri 23/04/21	0 days 80	82		
	82 5.12.10.3	Acceptance of conforming quotation	30 days Sat 24/04/21		0 days 81	249,395,524,647		
	83 5.32.11	General - HV Cables, C11, EQT041 (Rev. 5)	65 days Mon 08/03/21	Tue 11/05/21	16 days			
	845.12.11.1	Submission for acceptance of purchasing package	14 days Mon 08/03/21	Sun 21/03/21	0 days	85		
	85 5.12.11.2	Invitation of quotations for purchasing package	21 days Mon 22/03/21	Sun 11/04/21	0 days 84	85		1
	86 5.12.11.3	Acceptance of conforming quotation	30 days Mon 12/04/21	Tue 11/05/21	12 days 85	249,647		
	87 5.12.12	General - LV Cables, C11, EQT042 (Rev. 5)	65 days Mon 08/03/21	Tue 11/05/21	16 days			
i	88 5.12.12.1	Submission for acceptance of purchasing package	14 days Mon 08/03/21	Sun 21/03/21	0 days	89		BILL
l	89 5.12.12.2	Invitation of quotations for purchasing package	21 days Mon 22/03/21	Sun 11/04/21	0 days 88	90		1 h h h h h h h h h h h h h h h h h h h
l	90 5.12.12.3	Acceptance of conforming quotation	30 days Mon 12/04/21	Tue 11/05/21	12 days 89	249,395,524,647	5	11.1
	91.5.13	Part B: Subletting of major sub-contract works	761 days Wed 01/01/20	Sun 30/01/22	0 days 2,30			1 <b>*</b>
	92 5.13.1	Planned Completion Date for major sub-contract works	0 days Thu 12/08/21	Thu 12/08/21	0 days 255+620 days,30	55		39 12/08
ł	93 5.13.2	General - Independent BEAM Plus Consultant (045C007)	150 days Wed 01/01/20	Fri 29/05/20	0 days			·
ł	945.13.2.1	Submission for acceptance of proposed Independent BEAM Plus Consultant	60 edays Wed 01/01/20	Sun 01/03/20	0 edays	95		
	955.13.2.2	Acceptance of proposed Independent BEAM Plus Consultant	14 edays Sun 01/03/20	Sun 15/03/20	O edays 94	96		
	965.13.2.3	Engagement with an Independent BEAM Plus Consultant	7 days Sun 15/03/20	Sat 21/03/20	0 days 95		-	
	975.13.2.4	Actual Date for engagement with an independent BEAM Plus Consultant (Completed)	O days Fri 29/05/20		0 days			♦ 29/05
	985.13.3	General - Conduction of Pump sump physical model test	270 days fri 15/05/20		0 days			
	995.13.3.1	Submission for acceptance of proposed hydraulic laboratory to conduct the test	7 edays Fri 15/05/20		0 edays	100		
	100 5.13.3.2	Invitation to quotations for provision of service	7 edays Fri 22/05/20		O edays 99	101		
	101 5.13.3.3	Acceptance of proposed hydraulic laboratory	6 days Fri 29/05/20			102		
	102 5.13.3.4	Commencement of detailed proposal and conduction of test (Extended)	245 days Thu 04/06/20			103		
	1025.13.3.4	Acceptance of hydraulic Report (Extended)	5 days Thu 04/02/21			1011		
	1035.13.3.5	General - Independent Checking Engineer (045C004)	127 days Wed 11/03/20				-	
	1045.13.4	Submission for acceptance of proposed independent Checking Engineer	90 edays Wed 11/03/20			106		
	105 5.13 4.1	Submission for acceptance of proposed independent Checking Engineer Acceptance of proposed Independent Checking Engineer	1 eday Wed 24/04/20			107		
			21 days Thu 25/06/20			106		
	1075.13.4.3	Engagement with an Independent Checking Engineer	0 days Wed 15/07/20					15/07
	108 5.13.4.4	Actual Date for engagement with an ICE (Completed)	81 days Fri 01/05/20			-		
	109 5.13.5	General - Lifting Appliances (045C008)	30 edays Fri 01/05/20			111		
	1105.13.5.1	Submission for acceptance of subcontract works package				111		
	1115.13.5.2	Invitation of tender for subcontract works	21 edays Sun 31/05/20			112	-	
	1125.13.5.3	Acceptance of conforming tender	30 edays Sun 21/06/20	100 million - 100 million - 1		253,398,527,652,		23007
	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sub-contract work commencement date (Completed)	0 days Tue 21/07/20			225,398,527,657,	,n	
	1145.13.6	General - Mechanical Installations	244 days Tue 01/06/21	100000000000000000000000000000000000000		110		
		Submission for acceptance of subcontract works package	120 days Tue 01/05/21	10.000		116		
	1165.13.6.2	Invitation of tender for subcontract works	75 days Wed 29/09/21	Sun 12/12/21	0 days 115	117		

-	and contraction of	apartment					Effluent Polishing Plan	
2	D Wills	Task Name	Duration between T	lask	Float Tin	re Predecessors	Successors	Resource Names
117	117 5.13.6.3	Acceptance of conforming tender	Start and Fi 30	isish days Mon 13/12/21 Tue 11/0	1/22 1	9 days 116	118FF	
118	118 5.13.6.4	Sub-contract work commencement date	1	1 day Sun 30/01/22 Sun 30/0	1/22	0 days 117FF		
119	119 5.13.7	General - Electrical Installations	246	days Tue 01/06/21 Sun 30/0	1/22	0 days		
120	120 5.13.7.1	Submission for acceptance of subcontract works package	120 e	days Tue 01/06/21 Wed 29/	09/21 0	edays	121	
121	121 5.13.7.2	Invitation of tender for subcontract works	75 e	days Wed 29/09/21 Mon 13/	12/21 (	edays 120	122	
122	122 5.13.7.3	Acceptance of conforming tender	30 e	days Mon 13/12/21 Wed 12/	01/22 18.38	edays 121	123FF	
123	123 5.13.7.4	Sub-contract work commencement date		1 day Sun 30/01/22 Sun 30/0		0 days 122FF		
124	124 5.13.8	General - Facility Computerized Systems (SCADA, CMMS, PMS, IDMS)	130	days Tue 01/09/20 Sat 09/0	1/21 3	0 days		
125	125 5.13.8.1	Submission for acceptance of subcontract works package	60 e	days Tue 01/09/20 Sat 31/1	/20 0	edays	126	
126	126 5.13.8.2	Invitation of tender for subcontract works		days Sat 31/10/20 Mon 30/		edays 125	127	
127	127 5.13.8.3	Acceptance of conforming tender	30 e	days Mon 30/11/20 Wed 30/	12/20 10	edays 126	128	
128	128 5.13.8.4	Sub-contract work commencement date	0	days Sat 09/01/21 Sat 09/0	1/21	0 days 127	185	
129	1295.13.9	General - Building Services Installations	130	days Mon 02/11/20 Fri 12/0	/21 1	2 days		
130	130 5.13.9.1	Submission for acceptance of subcontract works package		edays Man 02/11/20 Fri 01/0		) edays	131	
131	131 5.13.9.2	Invitation of tender for subcontract works		days Fri 01/01/21 Sun 31/0		edays 130	132	
132	132 5.13.9.3	Acceptance of conforming tender		days Sun 31/01/21 Tue 02/0		edays 131	133FF	
133	133 5.13.9.4	Sub-contract work commencement date		days Fri 12/03/21 Fri 12/0		0 days 132FF	250,396,525,649,7	\$
134		General - Mechanical Ventilation and Air Conditioning Installation		days Mon 02/11/20 Fri 12/0		0 days	Contraction of the	
135	135 5.13.10.1	Submission for acceptance of subcontract works package		days Mon 02/11/20 Thu 31/		0 days	136	
136	136 5.13.10.2	Invitation of tender for subcontract works		days Thu 31/12/20 Sat 30/0		edays 135	137	
137		Acceptance of conforming tender		days Sun 31/01/21 Mon 01/		10 days 136	138FF	
130	138 5.13.10.3	Sub-contract work commencement date		days fri 12/03/21 Fri 12/0		0 days 137FF		
139	1395.13.11	General - Emergency Power Generator Set (045C006)		days Wed 01/07/20 Mon 23,		0 days		
140	1405.13.11.1	Submission for acceptance of subcontract works package		days Wed 01/07/20 Sun 30/0		) edays	141	
141	141 5.13.11.2	Submission for acceptance of subcontract works package		edays Sun 30/08/20 Tue 29/4		edays 140	142	
141	141 5.13.11.2	Acceptance of conforming tender		edays Tue 29/09/20 Thu 29/		edays 141	143FF	
142	1425.13.11.3	Acceptance of conforming tender Sub-contract work commencement date (Completed)		days fat 23/05/20 Mon 23/		0 days 142FF	C.C.C.	
143	143 5.13.11.4	Sub-contract work commencement date (Completed) General - Plumbing installation (Rev. 5)		days Wed 01/07/20 Tue 16/		l6 days	-	
144				days Wed 01/07/20 Fri 31/0	343°	) edays	146	
145	145 5.13.12.1	Submission for acceptance of subcontract works package		rdays Fri 31/07/20 Wed 14		) edays 145	145	
146	1465.13.12.2	Invitation of tender for subcontract works Retender of subcontract works (Rev. 5)		days Mon 04/01/21 Sun 17/0		0 days 146	148	
				days Mon 04/01/21 Sun 17/0 edays Sun 17/01/21 Tue 16/0		0 days 146 ) edays 147	148 149FF	
148	1485.13.12.4	Acceptance of conforming tender		days Tue 16/02/21 Tue 16/		0 days 148FF	1225	
149	1495.13.12.5	Sub-contract work commencement date (Extended)		days Non 04/01/21 Mon 03,		0 days 148FF		
	150 5.13.13	General - Fire Services Installation (Rev. 5)				0 days	152	
151	151 5.13.13.1	Submission for acceptance of subcontract works package		days Mon 04/01/21 Thu 04/		2034	152	
152	152 5.13.13.2	Invitation of tender for subcontract works		days Fri 05/03/21 Sat 03/0		0 days 151	153 154FF	
153	153 5.13.13.3	Acceptance of conforming tender		days Sun 04/04/21 Mon 03		0 days 152	15486	
154	1545.13.13.4	Sub-contract work commencement date		days Mon 03/05/21 Mon 03		0 days 153FF	11/6	
155	155 5.13.14	General - Lightning Protection System and Main Earthing System (Rev. 8)		days Mon 11/01/21 Tue 29/	10.24°	0 days		
156	156 5.13.14.1	Submission for acceptance of subcontract works package (Rev. 8)		edays Mon 11/01/21 Fri 30/0		Dedays	157	
157	1575.13.14.2	Invitation of tender for subcontract works (Rev. 8)		edays Fri 30/04/21 Sun 30/		edays 156	158	
158	1585.13.14.3	Acceptance of conforming tender (Rev. 8)		edays Sun 30/05/21 Tue 29/		edays 157	159FF	
159	1595.13.14.4	Sub-contract work commencement date (Rev. 8)		days Tue 29/06/21 Tue 29/		0 days 158FF		
160	160 5.13.15	General - CCTV Installation		days Thu 01/07/21 Fri 31/1		0 days	-	
161	161 5.13.15.1	Submission for acceptance of subcontract works package		edays Thu 01/07/21 Mon 30,		) edays	162	
162	162 5.13.15.2	Invitation of tender for subcontract works		edays Mon 30/08/21 Wed 29		0 edays 161	163	
163	163,5.13,15,3	Acceptance of conforming tender		edays Wed 29/09/21 Fri 29/1		3 edays 162	164FF	
164	164 5.13.15.4	Sub-contract work commencement date		days Fri 31/12/21 Fri 31/1		0 days 163FF		
165	165 5.13.16	General - Civil Construction Work for underground pipework		days Wed 01/07/20 Mon 10		0 days		
166	166 5.13.16.1	Submission for acceptance of subcontract works package		I days Wed 01/07/20 Tue 14/		0 days	167	
167	1675.13.16.2	Invitation of tender for subcontract works		1 days Wed 15/07/20 Tue 28/		0 days 166	168	
168	168 5.13.16.3	Acceptance of conforming tender		days Wed 29/07/20 Tue 04/		0 days 167	169FF	
169		Sub-contract work commencement date (Completed)		0 days Mon 10/08/20 Mon 10		0 days 168FF		
170	1705.13.17	General - Civil Construction Work for Temp. Filtrate Eq. System		) days Wed 01/07/20 Mon 10		0 days		
171	171 5.13.17.1	Submission for acceptance of subcontract works package		days Wed 01/07/20 Tue 14/		0 days	172	
172	and the second second second	Invitation of tender for subcontract works	14	days Wed 15/07/20 Tue 28/	07/20	0 days 171	173	
	173 5.13.17.3	Acceptance of conforming tender	7	7 days Wed 29/07/20 Tue 04/	8/20	0 days 172	174FF	
174	1745.13.17.4	Sub-contract work commencement date (Completed)	0	0 days Mon 10/08/20 Mon 10	08/20	0 days 173FF		

10	and in succession of the succe	partment			Shek Wu Hui	Effluent Polishing Plan	osed Work Programme nt - Main Works Stage	Stage 1 EBM Works for Sewage Treatment Facilities
	WBS	Tesk Name	Duration Start Finish between Task	Float Time	Predecessors	Successors	Resource Names	1 1 1 2 2011 Hull 1 2013
175	5.13.18	Mis - Modification of existing power house	Start and Finish 109 days Mon 24/02/20 Fri 12/0	06/20 0 d	ays	-		
	5.13.18	Submission for acceptance of subcontract works package	90 days Mon 24/02/20 Sat 23/			177		
100	5.13.18.1	Submission for acceptance of subcontract works package	14 days Sun 24/05/20 Sat 06/		ays 176	178		
1.5.1	5.13.18.3	Acceptance of conforming tender	1 day Sun 07/06/20 Sun 07/		ays 177	179FF		
	5.13.18.4		0 days Fri 12/06/20 Fri 12/0		ays 178FF	1147		e 12/06
179		Sub-contract work commencement date (Completed) Part C: General Design Submissions	589 days Mon 02/12/19 Mon 12					
1.00		Planned Sectional Completion Date - Section 1	0 days Mon 12/07/21 Mon 12		ays 182FF, 183FF, 18	ari		12/07
1100	5.14.1		250 edays Fri 05/06/20 Wed 10			181FF		
1 183		CD5001 - General Design Parameters	250 edays Mon 20/07/20 Sat 27/			181FF		
		CDS020 - Electrical Installation Typical Details	90 edays Mon 01/03/21 Sun 30/			181FF		
_	5.14.4	CDS009 - Detailed Design for Plant Service Water System CDS012 - Detailed Design for SCADA System	150 edays Sat 09/01/21 Tue 08/			181FF,249FF,395FI		
	5.14.5		90 edays Thu 01/04/21 Wed 30			181FF		
10.0	5.14.6	CDS13-1 - Detailed Design for CCTV System				181FF		
1.1220	5.14.7	CD513-2 - Detailed Design for Gas Detection and Monitoring System	90 edays Mon 01/03/21 Sun 30/					
21.875	5.14.8	CDS14-1 - Detailed Design for Power monitoring system (PMS)	90 edays Mon 01/03/21 Sun 30/			181FF		
2.432	5.14.9	CDS14-2 - Detailed Design for Computerized maintenance and management (CMMS)	90 edays Mon 01/03/21 5un 30/			181FF		
2.1	5.14.10	CDS14-3 - Detailed Design for Information and documents management system (IDMS)	90 edays Mon 01/03/21 Sun 30/			181FF		
21	5.14.11	CDS031 - Detailed Design for MVAC System	90 edays Mon 01/03/21 5un 30/			181FF		
	5.14.12	CDS042 - Detailed Design for Lightning Protection System	120 edays Mon 11/01/21 Tue 11/			181FF		
	5.14.13	Design submissions for E&M installation works of existing sludge thickening building	300 edays Mon 02/12/19 5un 27/			181FF	-	
-	5.14.14	Design Submission for Earthing and Lightning (Rev. 8)	147.38 edays Mon 04/01/21 Mon 31			181FF		
1.00	5.15	Works Area WA1-C	374 days Wed 01/01/20 Fri 08/0		ays			
12.55	5.15.1	Actual Access / Handover Date	1 day Fri 21/02/20 Fri 21/0		lays	200		+_21/02
1.1.1.1	5.15.2	Submission for acceptance of subcontract works package (Site Office) (04SC003)	60 days Wed 01/01/20 5at 29/		lays 255+30 edays,3			
	5.15.3	Invitation of quotations for subcontract works (Site Office)	21 days Sun 01/03/20 Sat 21/		lays 197	199		
9 199	5.15.4	Acceptance of conforming quotation (Site Office)	10 days Sun 22/03/20 Tue 31		lays 198	200		
200	5.15.5	Design and Fabrication of the Contractor's Site Accommodations	120 days Wed 01/04/20 Wed 25	9/07/2C 0 d	lays 196, 199	206		
1 201	5.15.6	Submission for acceptance of subcontract works package (Site Office Foundation)	20 days Fri 01/05/20 Wed 20	0/05/2C 0 d	lays	202		
2 202	5.15.7	Invitation of quotations for subcontract works (Site Office Foundation)	18 days Thu 21/05/20 Sun 07/	/05/20 0 d	lays 201	203		
3 203	5.15.8	Acceptance of conforming quotation (Site foundation)	7 days Mon 08/06/20 Sun 14	/05/20 0 d	lays 202	204		5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
H 204	5.15.9	Design and Construction of the Contractor's Site Office foundation	30 days Mon 15/06/20 Tue 14	/07/20 0 d	lays 203	205		
15 205	5.15.10	Construction of Contractor's Site Office foundation (Completed)	47 days Wed 15/07/20 Sun 30	/08/20 0 d	lays 204	206		
06 206	5.15.11	Site Installation of the Contractor's Site Accommodations (MIC) (Rev. 5)	120 days Mon 31/08/20 Mon 28	8/12/2C 0 d	lays 200,205	207		
07 207	5.15.12	Anticipated date of working at site (Rev. 5) (Completed)	4 days Tue 05/01/21 Fri 08/0	01/21 0 d	lays 206			
200	15.16	Works Area WA2-C	1 day Fri 23/02/20 Fri 21/0	02/20 0 d	lays			· · · · · · · · · · · · · · · · · · ·
209 209	5.16.1	Actual Access / Handover Date	1 day Fri 21/02/20 Fri 21/0	02/20 0 d	lays			÷ 21/02
10 210	5.17	Inlet Works No. 1, Portion B-2 (PS 68.2.1)	1400 days Mon 01/06/20 Mon 0	1/04/2+ 0 d	lays			
11 211	5.17.1	Planned Key Date Completion Date - KD1A, IW	0 days fri 30/10/20 Fri 30/	10/20 0.0	1045 245FF. 246FF			KD1A, (W @)30/10
12 212		Planned Key Date Completion Date - KD18, IW	0 days Jue 01/06/21 Jue 01	/06/21 Q.d	aws 247FF			Hone ave a or Do
	5.17.3	Planned Sectional Completion Date - Section 1, IW	0 days Mon 12/07/21 Mon 1	2/07/21 0 d	lays 248FF, 249FF, 25	OFI	1	Section 7, W m. 12/07
1	5.17.4	Planned Sectional Completion Date - Section 2, IW	0 days Mon 01/04/24 Mon 0	1/04/24 0 d	lays			Section 7, IW of
15 215		Selection of Suppliers for major plant and materials for Inlet Works No. 1	335 days Mon 01/06/20 Sat 01/	/05/21 25 d	lays			
	55.17.5.1	Inlet Works - Inlet Pumps (Marking Scheme Approach), C11, ref. EQ7006	120 days Mon 01/05/20 Mon 21		lays			
	5.17.5.1.1	Submission for acceptance of purchasing package including proposed marking scheme	60 days Mon 01/06/20 Thu 30	/07/20 0 d	lays	218		
101153	85.17.5.1.2	Invitation of quotations for purchasing package	30 days Fri 31/07/20 Sat 29/		lays 217	219		
11.028	95.17.5.1.3	Acceptance of conforming quotation (Completed)	30 days Sun 30/08/20 Mon 2		iays 218	248		
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	05.17.5.2	Inlet Works - mechanical raked bar screens, C11, ref. EQT052	58 days Fri 26/06/20 Sat 22/		lays			
81 235	15.17.5.2.1	Submission for acceptance of purchasing package	14 days Fri 26/06/20 Thu 09		lays	222		
8. 1.2	25.17.5.2.2	Invitation of quotations for purchasing package	14 days Fri 10/07/20 Thu 23		lays 221	223	-	
· · · · · · · · · · · · · · · · · · ·	35.17.5.2.3	Acceptance of conforming quotation (Completed)	30 days Fri 24/07/20 Sat 22/		lays 222	248		
	45.17.5.3	Acceptance of conforming quotation (Completein) Inlet Works - screening conveyors and Diverters, C11, ref. EQT053	74 days Wed 01/07/20 Sat 12/			1000		
	55.17.5.3		30 days Wed 01/07/20 Thu 30		fays	226		
-	65.17.5.3.2	Submission for acceptance of purchasing package	14 days Fri 31/07/20 Thu 13		lays 225	227		
		Invitation of quotations for purchasing package	30 days Fri 14/08/20 Sat 12/		lays 226	248		
	75.17.5.3.3	Acceptance of conforming quotation (Completed)	30 days Fri 14/08/20 Sat 12/ 105 days Wed 01/07/20 Tue 13			640		
1000	85.17.5,4	Inlet Works - screening screw type compactors, C11, ref. EQT003			lays	330		
1.0	95.17.5.4.1	Submission for acceptance of purchasing package	45 days Wed 01/07/20 Fri 14/		fays	230		
Sec. 1. 1995	05.17.5.4.2	Invitation of quotations for purchasing package	30 days Sat 15/08/20 Sun 13		fays 229	231		
	15.17.5.4.3	Acceptance of conforming quotation (Completed)	30 days Mon 14/09/20 Tue 13		lays 230	248		
SS 1 42	25.17.5.5	Inlet Works - grit removal system, C11, ref. EQT004	90 days Wed 01/07/20 Mon 2	8/09/21 0 d	lays			

		sartment				Shek Wu Hu	ui Effluent Polishing Pla	int - Main Works Stag	For DL/2018/04 1 E&M Works for Servage Treatment Facilities
ID W	es in	Task Name	Duration Start between Task	Finish	Float Time	Predecessors	Successors	Resource Names	J2021         J2021 <th< th=""></th<>
233 5.	17.5.5.1	Submission for acceptance of purchasing package	Start and Finish 30 days Wed	01/07/20 Thu 30/07/20	0 da	ys.	234	-	<u>+ + + w + w + - + + + + + + + + + + </u>
1.10.10	17.5.5.2	Invitation of quotations for purchasing package		1/07/20 5at 29/08/20		ys 233	235		
1.1	17.5.5.3	Acceptance of conforming quotation (Completed)		10/08/20 Mon 28/09/2		ys 234	248		
236 5.		Inlet Works - grit classifiers, C11, ref. EQT005	1	01/07/20 Mon 28/09/2					
0.0480	17.5.6.1	Submission for acceptance of purchasing package	30 days Wed	01/07/20 Thu 30/07/20	0 da	ys	238		
122.002	17.5.6.2	Invitation of quotations for purchasing package		1/07/20 Sat 29/08/20		ys 237	239		
1.1	17.5.6.3	Acceptance of conforming quotation (Completed)	100000000000000000000000000000000000000	30/08/20 Mon 28/09/2		ys 238	248		
	17.5.7	Inlet Works - Fixed Bar Screen, C1.1, ref. EQT046 (Rev. 8)	100 C	6/06/20 Sat 01/05/21					
	17.5.7.1	Submission for acceptance of purchasing package		6/06/20 Thu 09/07/20			242	-	
	17.5.7.2	Invitation of quotations for purchasing package		0/07/20 Thu 01/04/2		ys 241	243		
1000	17.5.7.3	Acceptance of conforming quotation (Rev. 8)		2/04/21 Sat 01/05/21		ys 242	248		
1 2445		Design Submissions for IW		15/07/20 Fri 23/07/21					
245.5		Electrical schematic drawings for Inlet Works No. 1		15/07/20 Mon 12/10/2			21166		
1000010	17.6.2	CDS080-1 - Civil and dimensional requirements drawings for inlet Works No. 1 up to +8.0 r		01/09/20 Thu 15/10/20		21	21155		
1. 18 CM		CDS080-1 - Civil and dimensional requirements drawings for Inlet Works No. 1	2	8/08/20 Thu 25/03/2			21255		
1.1.1.1.1.1.1	17.6.3			01/03/21 Fri 23/07/21		J	9,21256,278,263,266,	26	
0 2485 9 2495		CDS002 - Detailed Design for Inlet Works No. 1.		23/05/21 Wed 07/07/2			9,21230,278,203,200, 9,18(73,295,287,298,2		
	17.6.5	COS021 - Detailed Design for Electrical Installations for Inlet Works No. 1		2/03/21 Sat 10/07/21			348,213FF		
2505	17.6.6	CDS034-1 - Detailed Design for Electrical Instaliations 85 at Infet Works No. 1 CDS025-1 - Detailed Design for LV Switchboards for Infet Works No. 1		03/05/21 Fri 02/07/21			287,213FF		
				18/04/21 Thu 17/06/2			291,213FF		
1000	17.6.8	COS026-1 - Detailed Design for HV Switchboards for Inlet Works No. 1		01/09/20 Tue 30/03/2		ys 113	284,213FF		
1 2 3 4	17.6.9	CDS050-1 - Detailed Design for Lifting Appliances - Inlet Works No. 1		30/03/21 Thu 24/11/2			LUNAL ADT		
		Manufacturing and Delivery of Plant & Materials		14/07/21 Thu 24/11/2				-	
1.111	.17.7.1	Inlet Pumps, EQT005		24/07/21 Thu 24/11/2 24/07/21 Sun 20/03/2		ys 248	257		
1 2 2 1	.17.7.1.1	Manufacturing of Inlet Pumps, EQ1006					258		
	.17.7.1.2	Factory Acceptance Test of Plant (to be witnessed by PM)		21/03/22 Thu 19/05/2		ys 256 ys 257,30555-60			
	17.7.1.3	Shipping and Delivery of Plant to site		26/09/22 Thu 24/11/2		20 State (1993)			
1	.17.7.2	Mechanical Raked Bar Screen, EQT052		14/07/21 Thu 24/11/2			319		
	.17.7.2.1	Manufacturing and Factory Acceptance Test of Plant	200 P. C.	24/07/21 Sun 20/03/2			261		
	17.7.2.2	Shipping and Delivery of Plant to site		26/09/22 Thu 24/11/2		ys 260,30555-60	eday 321, 324		
	.17.7.3	Screening Conveyors and Diverters, EQT053		24/07/21 Thu 24/11/2					
1.000	.17.7.3.1	Manufacturing and Factory Acceptance Test of Plant		24/07/21 Sun 20/03/2			264		
264 5	.17.7.3.2	Shipping and Delivery of Plant to site		26/09/22 Thu 24/11/2		ys 263,30555-60			
State 1997	.17.7.4	Screening Screw Type Compactors, EQT003		24/07/21 Thu 24/11/2		5	319		
201 12:04	.17.7.4.1	Manufacturing and Factory Acceptance Test of Plant		24/07/21 Sun 20/03/2		STAR.	267		
\$7 2675	.17.7.4.2	Shipping and Delivery of Plant to site		26/09/22 Thu 24/11/2		ys 266,30555-60	edaş 327		
	.17.7.5	Grit Removal System, EQT004		24/07/21 Thu 24/11/2					
269 5	.17.7.5.1	Manufacturing and Factory Acceptance Test of Plant		24/07/21 Sun 20/03/2		- Normana	270		
10 270 5	.17.7.5.2	Shipping and Delivery of Plant to site		1 26/09/22 Thu 24/11/2		ys 269,30555-60	eday 325		
1 2715	.17.7.6	Grit Classifiers, EQT005	489 days Sat	24/07/21 Thu 24/11/2	2 387 di	ys.			
12 272 5	.17.7.6.1	Manufacturing and Factory Acceptance Test of Plant		24/07/21 Sian 20/03/2			273		
273	.17.7.6.2	Shipping and Delivery of Plant to site		26/09/22 Thu 24/11/2		rys 272,30555-60	eday326		
74 274 9	.17.7.7	DI Pipework, EQT036	489 days Sat	24/07/21 Thu 24/11/2	2 288 da	<b>3</b> 5			
75 275	.17.7.7.1	Manufacturing and Factory Acceptance Test of Plant		24/07/21 Sun 20/03/2		rys 248	276		
16 276	.17.7.7.2	Shipping and Delivery of Plant to site		26/09/22 Thu 24/11/2		rys 275,30555-60	eday 328		
11 277	.17.7.8	Stoplogs and Penstocks, EQT013	489 days Sat	24/07/21 Thu 24/11/2	2 168 di	ys.			
278	.17.7.8.1	Manufacturing and Factory Acceptance Test of Plant	300 days Sat	24/07/21 Thu 19/05/2	2 129 d	rys 248	279		
79 279	.17.7.8.2	Shipping and Delivery of Plant to site	60 days Mor	n 26/09/22 Thu 24/11/2	2 31 da	rys 278,30555-60	edaj 319		
80 280	5.17.7.9	Valves, EQT036	489 days Sat	24/07/21 Thu 24/11/2	12 288 di	rys			
81 281	5.17.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat	24/07/21 5un 20/03/2	2 189 d	rys 248	282		
	5.17.7.9.2	Shipping and Delivery of Plant to site	60 days Mor	n 26/09/22 Thu 24/11/2	2 151 d	ys 281,30555-60	eday 328		
	5.17.7.10	Lifting Appliances	590 days Tue	30/03/21 Wed 09/11/	2: 143 di	iys			
100	5.17.7.10.1	Manufacturing and Factory Acceptance Test of Plant	240 days Tue	30/03/21 Wed 24/11/	21 305 d	nys 253	285		
C. 1	5.17.7.10.2	Shipping and Delivery of Plant to site	45 days Mo	n 26/09/22 Wed 09/11/	2; 16 d	rys 284,30555-60	eday 309		
114 1314	5.17.7.11	LV Switchboards		08/07/21 Wed 09/11/		2			
1.10	5.17.7.11.1	IW - Manufacturing of Plant		08/07/21 Fri 04/03/22		ys 249,251,7455	-90 e 288		
22.2	5.17.7.11.2	IW - Factory Acceptance Test of Plant (to be witnessed by PM)		05/03/22 Tue 03/05/2		iys 287	289	-	
	5.17.7.11.3	W - Shipping and Delivery of Plant to site		n 26/09/22 Wed 09/11/		ys 30555-60 eda	y1,28334		
	5.17.7.12	HV Switchboards, EQT031		18/06/21 Wed 09/11/		ag preservations	5.40. A. (90)		
				the second and	-	1.1			

ID         WBS           291 5.17.7.         292 5.17.7.           293 5.17.7.         293 5.17.7.           293 5.17.7.         293 5.17.7.           294 5.17.7.         295 5.17.7.           295 5.17.7.         295 5.17.7.           295 5.17.7.         295 5.17.7.           295 5.17.7.         295 5.17.7.           295 5.17.7.         295 5.17.7.           295 5.17.7.         295 5.17.7.           295 5.17.7.         295 5.17.7.           295 5.17.7.         295 5.17.7.           300 5.17.7.         301 5.17.7.           301 5.17.7.         301 5.17.7.	7.12.2 7.12.3 7.13 7.13.1 7.13.2 7.14	Nere IW - Manufacturing of Plant IW - Factory Acceptance Test of Plant (to be witnessed by PM) IW - Shipping and Delivery of Plant to site 11kV/380V Stepdown Power Transformers, EQT032	between Task Start and Fielph 240 days Fri 18/06/21 Sa 90 days Sun 13/02/22 Fr	at 12/02/22		Successors 292	Resource Names	2000 2001 2001 2001 2001 2001 2001 2001
292 5.37.7. 293 5.37.7. 294 5.37.7. 295 5.37.7. 295 5.37.7. 295 5.37.7. 295 5.37.7. 295 5.37.7. 295 5.37.7. 298 5.37.7. 300 5.17.7. 300 5.17.7. 302 5.17.7.	7.12.2 7.12.3 7.13 7.13.1 7.13.2 7.14	IW - Factory Acceptance Test of Plant (to be witnessed by PM) IW - Shipping and Delivery of Plant to site	Start and Fieldh 240 days Fri 18/06/21 Sd 90 days Sun 13/02/22 Fr			292		T W T W W T S W T M W T S W T M M J S W T M M J S W T
292 5.37.7. 293 5.37.7. 294 5.37.7. 295 5.37.7. 295 5.37.7. 295 5.37.7. 295 5.37.7. 295 5.37.7. 295 5.37.7. 298 5.37.7. 300 5.17.7. 300 5.17.7. 302 5.17.7.	7.12.2 7.12.3 7.13 7.13.1 7.13.2 7.14	IW - Factory Acceptance Test of Plant (to be witnessed by PM) IW - Shipping and Delivery of Plant to site	90 days Sun 13/02/22 Fr			199-1		
293 5.17.7. 294 5.17.7. 295 5.17.7. 295 5.17.7. 297 5.17.7. 298 5.17.7. 298 5.17.7. 300 5.17.7. 301 5.17.7. 302 5.17.7.	7.12.3 7.13 7.13.1 7.13.2 7.14	IW - Shipping and Delivery of Plant to site			135 days 291	293		
294 5.17.7. 295 5.17.7. 296 5.17.7. 297 5.17.7. 298 5.17.7. 298 5.17.7. 299 5.17.7. 300 5.17.7. 301 5.17.7. 301 5.17.7.	7.13 7.13.1 7.13.2 7.14		45 days Mon 26/09/22 W		0 days 292, 30555-60 eda		-	
295 5.17.7. 296 5.17.7. 297 5.17.7. 298 5.17.7. 298 5.17.7. 300 5.17.7. 301 5.17.7. 301 5.17.7.	7.13.1 7.13.2 7.14	and and a subsection of the su	490 days Thu 08/07/21 W		153 days 56,60		-	
296 5.17.7. 297 5.17.7. 298 5.17.7. 299 5.17.7. 300 5.17.7. 301 5.17.7. 301 5.17.7.	.13.2	IW - Manufacturing and Factory Acceptance Test of Plant	240 days Thu 08/07/21 Fr		205 days 249	296		
297 5.17.7. 298 5.17.7. 299 5.17.7. 300 5.17.7. 301 5.17.7. 302 5.17.7.	1.14	IW - Manufacturing and Factory Acceptance Test of Plant IW - Shipping and Delivery of Plant to site	45 days Mon 26/09/22 W		60 days 295,30555-60 eda			
298 5.17.7. 299 5.17.7. 300 5.17.7. 301 5.17.7. 302 5.17.7.	0.00	PLC System	505 days Thu 08/07/21 Th		153 days			
299 5.17.7. 300 5.17.7. 301 5.17.7. 302 5.17.7.		Manufacturing of Plant, PLC for TW	300 days Thu 08/07/21 To			299		
300 5.17.7 301 5.17.7 302 5.17.7		Factory Acceptance Test of Plant, PLC for IW (To be witnessed by PM)	60 days Wed 04/05/22 St		85 days 298	100		
301 5.17.7 302 5.17.7			60 days Mon 26/09/22 Ti		45 days 30555-60 edays,21	C.S.		
302 5.17.7		Shipping and Delivery of Plant to site	489 days Sat 24/07/21 T		270 days			
		Fixed Bar Screen, EQT046	240 days Sat 24/07/21 5		204 days 248	303		
303 5.17.7.		W - Manufacturing and Factory Acceptance Test of Plant	2723 1 49 E-5 (2013 27 1 1		143 days 302,30555-45 eda		-	
201		IW - Shipping and Delivery of Plant to site Site Installation Work	45 days Tue 11/10/22 T				-	
304 5.17.8			440 days Fri 25/11/22 W		5 days	200 201 21010		
305 5.17.8		Tentative Civil Handover Date, Portion 8-2, Inlet Works No. 1 (Rev. 5)	1 day Fri 25/11/22 Fr		0 days	309,307,348F5+12		
306 5.17.8		Tentative Civil Handover Date, HV cables draw pits from MF82 to IW	1 day Tue 14/02/23 Tu		113 days	340FF+30 days	-	
307 5.17.B		Commencement of E&M Installation at Inlet Works No. 1	439 days Sat 26/11/22 W		5 days 305	2000		
308 5.17.8		Provision of Temporary Water Supply, Electricity Supply, Lighting, Welfare facilities etc.,			0 days 305			
309 5.17.8		Installation of Lifting Appliances at Inlet Works No. 1	142 days 5at 26/11/22 5			31855+30 days,32	1	
310 5.17.8		1/F EOT Crane IA-01-01 SWL 5t	45 days Tue 10/01/23 T			317	LA - A x 4°6 men	
311 5.17.8		1/FEOT Crane LA-01-02 SWL St	45 days Tue 10/01/23 TI			317	LA - B x 4~6 men	
312 5.17.8		1/F EOT Crane LA-01-03 SWL St	45 days Tue 10/01/23 T			315,317	LA - C x 4*6 men	
313 5.17.8		UG EOT Crane LA-01-04 SWL 10t	45 days Sat 26/11/22 M		0 days		LA - A x 4°6 men	
314 5.17.8		UG EOT Crane IA-01-05 SWL 10t	45 days 5at 26/11/22 M		0 days		LA - B x 4*6 men	
315 5.17.8		1/F Retractable Crane LA-01-06 SWL 10t	45 days Fri 24/02/23 5		0 days 312	317	LA - C x 4°6 men	
316 5.17.8		Submission of T&C Plan and Procedures of LA for acceptance	14 days Sat 26/11/22 Fr		121 days	317		
317 5.17.8		T&C, Loading Test for Lifting Appliances	7 days Mon 10/04/23 St		0 days 310,311,312,313,		LA - 8 x 4~6 men	
318 5.17.8	1.3.3	Mechanical Installations for Inlet Works No. 1	250 days Mon 26/12/22 Fr			33355+14 days,345	1	
319 5.17.8	8.3.3.1	Installation of penstocks and stoplogs (Penstock 35nos, Stoplogs 37 nos), EQT013	120 days Mon 26/12/22 M			328,329,332	ME - E x 4°6 men	
320 5.17.8	1.3.3.2	Installation of fixed bar screen (x1), EQT046	7 days Mon 17/04/23 Si			324	ME - D x 2~4 men	
321 5.17.8	13.3.3	Installation of mechanical raked coarse bar screens (x4), EQT052	90 days Mon 26/12/22 Sa			322	ME - A x 4°6 men	
322 5.17.8	8.3.3.4	Installation of screening conveyors (x6), EQTOS3	30 days Mon 17/04/23 Tr	ue 16/05/23	0 days 309, 321, 264	327	ME - Ax 4°6 men	
323 5.17.8	8.3.3.5	Installation of inlet pumps (x5), EQT006	21 days Sat 08/07/23 Fr	ri 28/07/23	0 days 309,32855+14 day	325	ME - B x 4~6 men	
324 5.17.8	8.3.3.6	Installation of mechanical raked fine bar screens (x4), EQT052	75 days Mon 24/04/23 Fr	ri 07/07/23	0 days 320,261	323	ME - 8 x 4~6 men	
325 5.17.8	8.3,3.7	Installation of grit removal system (x3), EQT004	14 days Sat 29/07/23 Fr	ri 11/08/23	0 days 323,270	326	ME - B x 4~6 men	
326 5.17.8		Installation of grit classifiers (x2), EQT005	21 days Sat 12/08/23 Fr	1 01/09/23	127 days 325,273		ME - 8 x 4*6 men	
327 5.17.8	1.3.3.9	Installation of compactors (x2), EQT003	21 days Wed 17/05/23 Ti	ue 06/06/23	214 days 322,267		ME - Ax 4=6 men	
328 5.17.8	8.3.3.10	Installation of pipework and valves, EQT036	30 days Tue 25/04/23 W	Ved 24/05/23	0 days 319,276,282	32355+14 days, 330	0 ME - D x 2~4 men	
329 5.17.8	8.3.3.11	Pipework pressure tests	30 days Tue 25/04/23 W	Ved 24/05/23	0 days 319	32355+14 days, 330	0 ME - D x 2~4 men	
330 5.17.8	8.3.3.12	Installation of Instrumentations, EQT035-1	90 days Thu 25/05/23 Ti	ue 22/08/23	137 days 328,329,52		ME - Ax 4*6 men	
331 5.17.8	133.13	Installation of Platforms, Covers etc, EQT050	180 days Mon 26/12/22 Fr	ri 23/06/23	197 days		ME + D x 2*4 men	
332 5.17.8	8.3.3.14	Site Acceptance Tests - mechanical aspects including alignment and levels checks, leal	1 120 days Tue 25/04/23 Ti	ue 22/08/23	137 days 319		ME - D x 2~4 men	
333 5.17.8	8.3.4	Electrical Installations for Inlet Works No. 1	300 days Mon 09/01/23 5	at 04/11/23	58 days 31855+14 days	345		
334 5.17.8	8.3.4.1	Installation of LV Switchboards, IW	60 days Mon 09/01/23 11	hu 09/03/23	30 days 289	339	LV - A x 4*6 men	
335 5.17.8	8.3.4.2	Modification of HV Switchboards, MFB No. 1 (Rev. 8)	30 days Mon 09/01/23 T	ue 07/02/23	150 days	340	LV - A x 4°6 men	
336 5.17.8		Installation of Transformer, IW, EQT032	60 days Mon 09/01/23 T	hu 09/03/23	30 days 296	339	EE - A x 4~6 men	
337 5.17.8		Installation of PLC Panels, IW	45 days Mon 09/01/23 W		45 days 300	339	EE - 8 x 4*6 men	
338 5.17.8		Installation of cable trays and cable containments	90 days Mon 09/01/23 5		0 days 31855	339	EE - C x 4~6 men	
339 5.17.8		Cables laying and terminations	90 days Sun 09/04/23 Fr	1 07/07/23	0 days 334,336,337,338	340,343,341	EE - C x 4"6 men	
3405.17.8		Energisation of LV Switchboards, IW	0 days Fri 07/07/23 Fri		178 days 339,306FF+30 day		LV - A x 4~6 men	
3415.17.8		Site Acceptance Tests - Electrical aspects including voltage and current tests, equipme			63 days 339		LV-Ax4~6men	
342 5.17.8		SCADA Systems, Inlet Works	105 days 5at 08/07/23 Fr		78 days		and the second	
3425.17.8			45 days Sat 08/07/23 M			344	PLC-Ax1man	
24.0 24.0		Configuration of PLC System, IW Site Acceptance Test for PLC System at Inlet Works No. 1	60 days Tue 22/08/23 Fi			344	- N NA I HAR	
C. C. C. P. C. C.			15 days Tue 02/01/24		0 days 318,333,340,470,			
and the second second		Site Acceptance Test for E&M Equip & Instrumentations calibration, IW					_	
346 5.17.8		System Commissioning for E&M Equip at Inlet Works No. 1	15 edays Tue 16/01/24 W			347		TOY, PRIS 2
347 5.17.8		Risk Allowances for completion of Processing Plant at Inlet Works No. 1	7 edays Wed 31/01/24 W			1258		
3485.17.8	8.3.9	Building Services Installations for Infet Works No. 1	300 days Sun 26/03/23 Fi	19/01/24	17 days 305F5+120 days,2			

Drainage Services Depa				Effluent Polishing P		je 1 Eddi Works for Sewage Treatment Facilities	_
ID WBS TA	ask Name	between Task	Float Time Predecessors	Successors	Resource Names	2020         2027 <th< th=""><th>_</th></th<>	_
9 349517.83.9.1	Mechanical Ventilation and Air Conditioning System, IW	Start and Finish 150 days Sun 26/03/23 Tue 22/08/23	30 days	355	MVAC-8x4~6men		Έ
39 350 5.17.8.3.9.2	Lighting and Power Distribution System, IW	180 days Sun 26/03/23 Thu 21/09/23	0 days	355	BS - A x 4~6 men		1
351 5.17.8.3.9.3	Plumbing Installation, IW	120 days 5un 26/03/23 Sun 23/07/23	60 days 1229	1231,355	Pb - A x 4°6 men		1
2 352 5.17.8.3.9.4	CCTV Installation (5 indoor +5 outdoor Cameras), IW	90 days Mon 24/04/23 Sat 22/07/23	51 days 30555+150 days		BS-Bx4~6 mm		1
353 5.17.8.3.9.5		120 days Mon 24/04/23 Mon 21/08/25	31 days 30555+150 days				
	Fire Services Installation, IW				Storage Carries The A Con		4
4 354 5.17.8.3.9.6	Earthing and Lightning Protection System, IW	60 days Wed 24/05/23 Sat 22/07/23	61 days 30555+180 days		B5 - C x 2*4 men		4
5 355 5.17.8.3.9.7	Testing and Commissioning of Building Services Installations, IW	120 days Fri 22/09/23 Fri 19/01/24	12 days 349,350,351,352	,3347	BS - C x 2*4 men		1
5 336 5.18	Primary Sedimentation Tanks No. 1 ~ 4, Portion B-3 (P5 682.2)	1371 days Wed 01/07/20 Mon 01/04/2-	0 days				
7 357 5.18.1	Planned Key Date Completion Date - KD1A, PST No. 1"4	9 days fri 30/10/20 fri 30/10/20	0 days 391FF, 392FF			K01A, P51 (6)30/10	1
358 5.18.2	Planned Key Date Completion Date - KD18, PST No. 1~4	1.day Tue 01/06/21 Tue 01/06/21	0 days 393FE			xohini esti an o too	1
59 359 5.18.3	Planned Sectional Completion Date - Section 1, PST No. 1~4	0 days Mon 12/07/21 Mon 12/07/21	0 days 396FF, 395FF, 394	IFI.		Section 1, PST g, 12/07	
360 5.18.4	Planned Sectional Completion Date - Section 2, PST No. 1"4	0 days Mon 01/04/24 Mon 01/04/24	0 days 484FF				4
1 361 5.18.5	Selection of Suppliers for major plant and materials for PST No. 1~4	230 days Wed 01/07/20 Mon 15/02/2:	47 days				
2 362 5.18.5.1	PST - lamella plate settlers, C11, ref. EQT014	90 days Wed 01/07/20 Mon 28/09/21	0 days		-		1
3 363 5.18 5.1.1	Submission for acceptance of purchasing package	30 days Wed 01/07/20 Thu 30/07/20	0 days	364	-		
			0 days 363	365			1
4 364 5.18.5.1.2	Invitation of quotations for purchasing package	30 days Fri 31/07/20 Sat 29/08/20					1
5 365 5.18.5.1.3	Acceptance of conforming quotation (Completed)	30 days Sun 30/08/20 Mon 28/09/20		394			
6 366 5.18.5.2	PST - reciprocating type bottom scrapers, C11, ref. EQT014	135 days Wed 01/07/20 Thu 12/11/20					1
7 367 5.18.5.2.1	Submission for acceptance of purchasing package	45 days Wed 01/07/20 Fri 14/08/20	0 days	368			1
368 5.18.5.2.2	Invitation of quotations for purchasing package	60 days Sat 15/08/20 Tue 13/10/20	0 days 367	369			
9 369 5.18.5.2.3	Acceptance of conforming quotation (Completed)	30 days Wed 14/10/20 Thu 12/11/20	0 days 368	394			
0 370 5.18.5.3	PST - surface scum skimmers, C11, ref. EQT015	90 days Tue 07/07/20 Sun 04/10/20	181 days				
3715.18.5.3.1	Submission for acceptance of purchasing package	30 days Tue 07/07/20 Wed 05/08/20	Contraction of the second s	372			
2 372 5.18 5.3.2	Invitation of guotations for purchasing package	30 days Thu 05/08/20 Fri 04/09/20	0 days 371	373	-		
3 373 5 18 5 3.3		30 days 5at 05/09/20 5un 04/10/20		394			
	Acceptance of conforming quotation				-		T
4 374 5.18.5.4	PST - scum collector pipes, C11, ref. EQT015	210 days Wed 01/07/20 Tue 26/01/21					1
375 5.18.5.4.1	Submission for acceptance of purchasing package	120 days Wed 01/07/20 Wed 28/10/20		376			1
6 376 5.18.5.4.2	Invitation of quotations for purchasing package	60 days Thu 29/10/20 Sun 27/12/20	0 days 375	377			1
7 377 5.18.5.4.3	Acceptance of conforming quotation	30 days Mon 28/12/20 Tue 26/01/21	20 days 376	394			1
8 378 5.18.5.5	PST - piston type primary sludge pumps, C11, ref. EQT016	210 days Wed 01/07/20 Tue 26/01/21	0 days				1
9 379 5.18.5.5.1	Submission for acceptance of purchasing package	120 days Wed 01/07/20 Wed 28/10/20	0 days	380			1
0 3805.18.5.5.2	Invitation of quotations for purchasing package	60 days Thu 29/10/20 Sun 27/12/20	0 days 379	381			1
381 5.18.5.5.3	Acceptance of conforming quotation (Completed)	30 days Mon 28/12/20 Tue 26/01/21	0 days 380	394	-		1
		210 days Tue 14/07/20 Mon 08/02/2:		a antielik			
	PST - drain pumps, C11, ref. EQ1007		0 days	384			
383 5.18.5.6.1	Submission for acceptance of purchasing package	120 days Tue 14/07/20 Tue 10/11/20					
384 5.18.5.6.2	Invitation of quotations for purchasing package	60 days Wed 11/11/20 5at 09/01/21	0 days 383	385			1
15 385 5.38.5.6.3	Acceptance of conforming quotation (Completed)	30 days Sun 10/01/21 Mon 08/02/21		394			
6 3865.18.5.7	PST - air blowers, C11, ref. EQT018	210 days Tue 21/07/20 Mon 15/02/2:					
37 387 5.18.5.7.1	Submission for acceptance of purchasing package	120 days Tue 21/07/20 Tue 17/11/20	0 days	388			1
88 3885.18.5.7.2	Invitation of quotations for purchasing package	60 days Wed 18/13/20 Sat 16/01/21	0 days 387	389			1
19 3895.18.5.7.3	Acceptance of conforming guotation	30 days Sun 17/01/21 Mon 15/02/21	0 days 388	394			1
90 390 5.18.6	Design Submissions for PST No. 1" 4	336 days Sat 01/08/20 Frl 02/07/21	10 days				
1 391 5.18.6.1	Electrical schematic drawings for PST No. 1 ~4	60 days 5at 01/08/20 Tae 29/09/20	0 days	357FF			1
92 3925.18.6.2	CDS080-2 - Civil and dimensional requirements drawings for PST No. 1"4 up to +8.0 mPD		0 days	357FF			
A CONTRACTOR OF A CONTRACTOR O	CDS080-2 - Civil and dimensional requirements drawings for PST No. 1 = 4 CDS081-2 - Civil and dimensional requirements drawings for PST No. 1 = 4	150 days Tue 01/09/20 Thu 28/01/21		358FF			1
93 3935.18.6.3 94 3945.18.6.4					0.41		1
	CDS003 - Detailed Design for Primary Sedimentation Tanks No. 1"4	100 edays Mon 15/02/21 Wed 26/05/21			(A)		
95 3955.18.6.5	CD5022 - Detailed Design for Electrical Installations for PST No. 1~4	30 edays Sun 23/05/21 Tue 22/06/21		73,435,359FF			
96 3965.18.6.6	CDS034-2 - Detailed Design for Electrical Installations BS at PST No. 1~4	50 edays Fri 12/03/21 Thu 10/06/21		477,359FF			
97 3975.18.6.7	CDS025-2 - Detailed Design for LV Switchboards for PST No. 1~4	60 edays Mon 03/05/21 Fri 02/07/21	0.63 edays 68	431,359FF			
98 3985.18.6.8	CDS050-2 - Detailed Design for Lifting Appliances - PST No. 1~4	150 edays Twe 01/09/20 Fri 29/01/21	O edays 113	428,359FF			1
99 3995.18.7	Manufacturing and Delivery of Plant & Materials	790 days Fri 29/01/21 Wed 29/03/2	253 days				-
400 5.18.7.1	Lamella Plate Settlers, EQT014	672 days Thu 27/05/21 Wed 29/03/2	193 days				
401 5.18.7.1.1	Manufacturing and Factory Acceptance Test of Plant	300 days Thu 27/05/21 Tue 22/03/22	Contract Contract La contract	402			
402 5.18.7.1.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/25					
and a second second second second		672 days Thu 27/05/21 Wed 29/03/2		1000			
	Reciprocating Type Bottom Scrappers, EQT014				-		
404 404 5.18.7.2.1	Manufacturing and Factory Acceptance Test of Plant	300 days Thu 27/05/21 Tue 22/03/22		405			
405 405 5.18.7.2.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/23		lay 454	_		
406 5.18.7.3	Surface Scum Skimmers, EQT015	672 days Thu 27/05/21 Wed 29/03/2	253 days				-
Project: DE/2018/04 Date: Thu 25/03/21	t Minister ♦ Project Scenary 1 1 Gal		Manual Prog		Misstore (Actual) + Slok	*	

Institution         Manufacturing and Factory Acceptance Test of Plant         Shipping and Delivery of Plant to site         Surface Scam Collection Pipes, EQT015         Manufacturing and Factory Acceptance Test of Plant         Shipping and Delivery of Plant to site         Piston Type Primary Sludge Pumps, EQT016         Manufacturing and Factory Acceptance Test of Plant         Shipping and Delivery of Plant to site         Drain Pumps, EQT007         Manufacturing and factory Acceptance Test of Plant         Shipping and Delivery of Plant to site         All Biower, EQT018         Manufacturing and Factory Acceptance Test of Plant         Shipping and Delivery of Plant to site         Stoplogs and Penstocks, EQT013         Manufacturing and Tactory Acceptance Test of Plant         Shipping and Delivery of Plant to site         Valves, EQT036         Manufacturing and Factory Acceptance Test of Plant         Shipping and Delivery of Plant to site         Valves, EQT036         Manufacturing and Factory Acceptance Test of Plant	Duration         Diat         Field           Stort exp fields         300 days         Thu 27/05/21         Tue 2           45 days         Min 11/02/23         Wed.         Wed.           62 days         Thu 27/05/21         Tue 2         Wed.           63 days         Thu 27/05/21         Wed.         Tue 2           45 days         Tue 27/05/21         Wed.         Tue 2           500 days         Tue 27/05/21         Wed.         Tue 2           45 days         Tue 27/05/21         Wed.         Tue 2           45 days         Tue 27/05/21         Wed.         Tue 2           500 days	19/03/22         203           19/03/22         203           19/03/21         253           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327	e Predecessors ? days 394 days 407,43955-60 e days ? days 407,43955-60 e days ? days 413,43955-60 e days ? days 394 days ? days 394 days ? days 394	411 eday456 414 eday457 417	Resource Names
Shipping and Delivery of Plant to site Surface Scom Collection Pipes, EQT015 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Piston Type Primary Sludge Pumps, EQT016 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Drain Pumps, EQT007 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site All Biower, EQT018 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Pentory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Pentory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Pentocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Pentocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site	500 days Thu 27/05/21 Tue 2 45 days Men 11/02/23 Wed. 672 days Thu 27/05/21 Wed. 300 days Thu 27/05/21 Wed. 500 days Thu 27/05/21 Wed. 672 days Thu 27/05/21 Wed. 500 days Thu 27/05/21 Wed. 500 days Thu 27/05/21 Wed. 500 days Thu 27/05/21 Wed. 500 days Thu 27/05/21 Wed. 672 days Thu 27/05/21 Wed. 672 days Thu 27/05/21 Wed. 672 days Thu 27/05/21 Wed. 672 days Thu 27/05/21 Wed.	19/03/22         203           19/03/22         203           19/03/21         253           2/03/22         327           29/03/21         133           2/03/22         327           29/03/21         133           2/03/22         327           29/03/21         163           2/03/22         327           2/03/22         327           29/03/21         136           29/03/22         327           20/03/22         327           20/03/22         327	a daya a	eday 455 411 eday 456 414 eday 457 417	
Shipping and Delivery of Plant to site Surface Scom Collection Pipes, EQT015 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Piston Type Primary Sludge Pumps, EQT016 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Drain Pumps, EQT007 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site All Biower, EQT018 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Pentory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Pentory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Pentocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Pentocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site	672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Tue 2 45 days Mon 13/02/23 Wed 672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Wed 672 days Thu 27/05/21 Tue 2 45 days Mon 13/02/23 Wed 672 days Thu 27/05/21 Wed 300 days thu 27/05/21 Wed 300 days May 12/05/21 Wed 45 days Mon 13/02/23 Wed 672 days Mon 13/02/23 Wed 672 days Mon 13/02/23 Wed 672 days Mon 13/02/23 Wed	29/03/21         253           2/03/22         327           29/03/22         203           29/03/21         133           2/03/22         327           29/03/22         327           29/03/22         327           29/03/22         327           29/03/22         163           2/03/22         327           29/03/22         136           29/03/22         136           29/03/22         327           20/03/22         327	i days days 394 i days 394 i days 410,43955-60 e i days 394 i days 394 i days 394 i days 394	411 eday456 414 eday457 417	
Surface Scam Collection Piper, EQT015 Manufacturing and Factory Acceptance Test of Piant Shipping and Delivery of Piant to site Pristen Type Primary Sludge Pumps, EQT016 Manufacturing and Factory Acceptance Test of Piant Shipping and Delivery of Piant to site Drain Pumps, EQT030 Manufacturing and Factory Acceptance Test of Piant Shipping and Delivery of Piant to site Ar Biower, EQT018 Manufacturing and Factory Acceptance Test of Piant Shipping and Delivery of Piant to site Stoplogs and Pentock, EQT013 Manufacturing and Factory Acceptance Test of Piant Shipping and Delivery of Piant to site Stoplogs and Pentock, EQT013 Manufacturing and Factory Acceptance Test of Piant Shipping and Delivery of Piant to site Valves, EQT036	672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Tue 2 45 days Mon 13/02/23 Wed 672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Wed 672 days Thu 27/05/21 Tue 2 45 days Mon 13/02/23 Wed 672 days Thu 27/05/21 Wed 300 days thu 27/05/21 Wed 300 days May 12/05/21 Wed 45 days Mon 13/02/23 Wed 672 days Mon 13/02/23 Wed 672 days Mon 13/02/23 Wed 672 days Mon 13/02/23 Wed	29/03/21         253           2/03/22         327           29/03/22         203           29/03/21         133           2/03/22         327           29/03/22         327           29/03/22         327           29/03/22         327           29/03/22         163           2/03/22         327           29/03/22         136           29/03/22         136           29/03/22         327           20/03/22         327	i days days 394 i days 394 i days 410,43955-60 e i days 394 i days 394 i days 394 i days 394	411 eday456 414 eday457 417	
Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Piston Type Primary Studge Pumps, EQT016 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Drain Pumps, EQT007 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Air Blower, EQT018 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Steplogs and Penstecks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Valves, EQT036	300 days Thu 27/05/21 Tue 2 45 days Thu 27/05/21 Wed 622 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Wed 45 days Mou 27/05/21 Wed 500 days Thu 27/05/21 Wed 500 days Thu 27/05/21 Wed 672 days Thu 27/05/21 Wed 672 days Thu 27/05/21 Wed 672 days Thu 27/05/21 Wed	2/03/22         327           2/03/22         203           2/03/22         203           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         327           2/03/22         326           2/03/22         327           2/03/22         327	days 394 days 410,43955-60 e days days 394 days 413,43955-60 e days days 394 days 394 days 394	eda) 456 414 eda) 457 417	
Shipping and Delivery of Plant to site Piston Type Primary Sludge Pumps, EQT016 Minufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Drale Pumps, EQT007 Minufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Air Blower, EQT018 Minufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQT013 Minufacturing and Delivery of Plant to site Shipping and Delivery of Plant to site Minufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQT013 Minufacturing and Testory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQT013	45 days Men 11/02/23 Wed: 672 days Thu 27/05/21 Wed: 300 days Thu 27/05/21 Wed: 500 days Thu 27/05/21 Wed: 500 days Thu 27/05/21 Wed: 300 days Thu 27/05/21 Wed: 500 days Thu 27/05/21 Wed: 500 days Thu 27/05/21 Wed: 50 days Thu 27/05/21 Wed: 52 days Thu 27/05/21 Wed: 53 days Thu 27/05/21 Wed: 53 days Thu 27/05/21 Wed: 54 days Thu 27/05/21 Wed: 55 days Thu 27	29/03/22 203 29/03/22 133 2/03/22 327 19/03/22 106 29/03/22 163 2/03/22 327 29/03/22 327 29/03/22 136 29/03/22 193	a days 410,43955-60 e i days 7 days 394 6 days 413,43955-60 e i days 7 days 394 6 days 416,43955-60 e	eda) 456 414 eda) 457 417	
Piston Type Primary Sludge Pumps, EQT016         Manufacturing and Factory Acceptance Test of Plant         Shipping and Delivery of Plant to site         Drain Pumps, EQT007         Manufacturing and Factory Acceptance Test of Plant         Shipping and Delivery of Plant to site         Air Blower, EQT018         Manufacturing and Factory Acceptance Test of Plant         Shipping and Delivery of Plant to site         Shipping and Delivery of Plant to site         Shipping and Delivery of Plant to site         Shipping and Plantory Acceptance Test of Plant         Shipping and Plant to site         Shipping and Plant to site         Shipping and Plant of Plant to site         Shipping and Delivery of Plant to site         Valves, EQT036	672 days Thu 27/05/21 Wed. 300 days Thu 27/05/21 Tue 2 45 days Men 11/02/23 Wed. 672 days Thu 27/05/21 Wed. 300 days Thu 27/05/21 Wed. 45 days Men 11/02/23 Wed. 672 days Thu 27/05/21 Wed. 300 days Thu 27/05/21 Wed. 672 days Thu 27/05/21 Wed.	29/03/22 133 2/03/22 327 29/03/22 106 29/03/22 163 32/03/22 327 29/03/22 136 29/03/22 136 29/03/21 193 32/03/22 327	i days 1 days 394 5 days 413,43955-60 e 1 days 1 days 394 5 days 416,43955-60 e	414 eday457 417	
Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Drain Pumps, EQ1007 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Air Blower, EQ1018 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQ1013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQ103	300 days Thu 27/05/21 Tue 2 45 days Men 11/02/23 Wed 672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Wed 45 days Men 11/02/23 Wed 672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Wed 45 days Men 11/02/23 Wed	2/03/22 327 29/03/22 106 29/03/22 163 2/03/22 327 29/03/22 136 29/03/22 193 2/03/22 327	/ days 394 5 days 413,43955-60 e 1 days 7 days 394 5 days 416,43955-60 e	edan 457 417	
Shipping and Delivery of Plant to site Drain Pumps, EQT007 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Ar Biower, EQT018 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site	45 days Men 11/02/23 Wed. 672 days The 27/05/21 Wed. 300 days The 27/05/21 Tee 2 45 days Men 11/02/23 Wed. 672 days The 27/05/21 Wed. 300 days The 27/05/21 Wed. 672 days The 27/05/21 Wed.	29/03/22 106 29/03/22 163 2/03/22 327 29/03/22 136 29/03/21 193 2/03/22 327	i days 413,43955-60 e I days I days 394 i days 416,43955-60 e	edan 457 417	
Drain Pumps, EQ1007 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Air Blower, EQ1018 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Steplogs and Penstecks, EQ1013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Shipping and Delivery of Plant to site	672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Tue 2 45 days Men 11/02/23 Wed 672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Tue 2 45 days Men 11/02/23 Wed 672 days Thu 27/05/21 Wed	29/03/21 163 2/03/22 327 29/03/22 136 29/03/21 193 2/03/22 327	i days 7 days 394 6 days 416,43955-60 e	417	
Manufacturing and Factory Acceptance. Test of Plant Shipping and Delivery of Plant to site Air Blower, EQTO18 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQTO13 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Valves, EQTO36	300 days Thu 27/05/21         Tue 2           45 days Mon 13/02/23         Wed           672 days Thu 27/05/21         Wed           300 days Thu 27/05/21         Tue 2           45 days Mon 13/02/23         Wed           672 days Thu 27/05/21         Wed	2/03/22 327 29/03/22 136 29/03/21 193 2/03/22 327	r days 394 5 days 416,43955-60 e		
Shipping and Delivery of Plant to site Air Blower, EQTO18 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Valves, EQT036	45 days Mon 13/02/23 Wed 672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Tue 2 45 days Mon 13/02/23 Wed 672 days Thu 27/05/21 Wed	29/03/22 136 29/03/21 193 2/03/22 327	6 days 416,43955-60 e		
Air Blower, EQT018 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Valves, EQT036	672 days Thu 27/05/21 Wed 300 days Thu 27/05/21 Tue 2 45 days Men 13/02/23 Wed 672 days Thu 27/05/21 Wed	29/03/21 193 2/03/22 327			
Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Stoplogs and Pentocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Valves, EQT036	300 days Thu 27/05/21 Tue 2 45 days Mon 13/02/23 Wed 672 days Thu 27/05/21 Wed	2/03/22 327	days	eday 458	
Shipping and Delivery of Plant to site Stoplogs and Penstocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Valves, EQT036	45 days Mon 13/02/23 Wed 672 days Thu 27/05/21 Wed				
Stoplogs and Penstocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Valves, EQT036	672 days Thu 27/05/21 Wed		days 394	420	
Stoplogs and Penstocks, EQT013 Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Valves, EQT036	672 days Thu 27/05/21 Wed	166	days 419,43955-60 e	eday 459	
Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site Valves, EQT035			i days	100 Child	
Shipping and Delivery of Plant to site Valves, EQT036			days 394	423	
Valves, EQT036					
	45 days Mon 13/02/23 Wed		i days 43955-60 edays	474.931	
Manufacturing and Factory Acceptance Test of Plant	672 days Thu 27/05/21 Wed		days		
	240 days Thu 27/05/21 Fri 21		days 394	426	
Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed		i days 425,43955-60 e	(da) 452	
Lifting Appliances	790 days Fri 29/01/21 Wed	29/03/21 66	days		
Manufacturing and Factory Acceptance Test of Plant	210 days Fri 29/01/21 Thu 2	6/08/21 535	i days 398	429	
Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed	29/03/23 16	i days 428,43955-60 e	eday442	
LV Switchboards	635 days Sat 03/07/21 Wed	29/03/21 53	days	TO BLOCK	
	300 days Sat 03/07/21 Thu 2			432	
			days 431	411	
				Julia	
			second		
Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed	29/03/25 16	days 436,43955-60 e	rdas 465	
Site Installation Work	298 days Fri 14/04/23 Mon	05/02/24 0	days		
Tentative Civil Handover Date, Portion 8-3, PST No. 1=4 (Rev. 5)	1 day Fri 14/04/23 Fri 14	/04/23 0	days	442,477F5+90 da	Ay3,
Commencement of E&M Installation at PST No. 1"4	297 days Sat 15/04/23 Mon	05/02/2+ 0	days 439	Party and the second	403
Provision of Temporary Water Supply, Electricity Supply, Lighting Welfare facilities etc.,	30 days Sat 15/04/23 Sun 1	4/05/23 0	days 439	1	
Installation of Lifting Appliances at PST No. 1"4	127 days Sat 15/04/23 Sat 19	/08/23 50	days 439,429		
Basement EOT Crane LA-02-01 SWL 10t	30 days Sat 15/04/23 Sun 1	4/05/23 0	days	444,445,449	LA - A x 4"6 men
			1111 A.A.	449	LA - Ax 4~6 men
			2711122		LA - B x 4"6 men
			1		LA - A x 4"6 men
					LA - 8 x 4*6 men
					tA - A x 4*6 men
					LA-Ax4*6 men
Mechanical Installations at PST No. 1"4			days	474	
Installation of penstocks and stoplogs (Penstock 18nos, Stoplogs 14 nos), EQT013	90 days Sat 15/04/23 Thu 1	3/07/23 0	days 423	457,462	ME-Ex 4~6 men
Installation of pipework and valves, EQT036	240 days Sat 15/04/23 Sun 1	0/12/23 27	days 426		ME - B x 4~6 men
Installation of lamella plate settlers (x4), EQT014	60 days Sun 20/08/23 Wed	18/10/23 0	days 454,449,402	455,456	ME - A x 4~6 men
Installation of reciprocating type bottom scrapers (x4), EQT014	30 days Sat 15/04/23 Sun 1	4/05/23 97	days 405	453	ME - Ax 4~6 men
					ME - Ax 4~6 men
			10040 000400000		ME-Bx4"6 men
				458	ME - Cx 4*6 men
				1.1.4	
				155	ME - Cx 4*6 men
				460	ME - Cx 4~6 men
IO Installation of instrumentations, EQT035-1			days 459,52		ME - C x 4~6 men
Installation of Platforms, Covers etc., PST, EQT050	60 days Thu 21/09/23 Sun 1	9/11/23 48	days		ME - F x 4~6 men
2 Site Acceptance Tests - mechanical aspects including alignment and levels checks, leal	150 days Fri 14/07/23 Sun 1	0/12/23 27	days 451		ME - D x 2*4 men
Electrical Installations for PST No. 1"4	260 days Sat 15/04/23 Sat 3	0/12/23 0	days 439	474	
Installation of LV Switchboards, PST			days 433	467	LV - A x 4~6 men
	a se an a diversión de la construcción de l	and the second second second	a conference		
	PST - Manufacturing of Plant         PST - Factory Acceptance Test of Plant (to be witnessed by PM)         PST - Shipping and Delivery of Plant to site         PLC System         Manufacturing of Plant, PLC for PST         Factory Acceptance Test of Plant, PLC for PST (To be witnessed by PM)         Shipping and Delivery of Plant to site         Site Installation Work         Tenestice CWH Handower Date, Portion B-3, PST No. 1*4 (Rev. 5)         Commencement of E&M Installation at PST No. 2*4         Provision of Temporary Water Supply, Electricity Supply, Lighting Welfare facilities etc.,         Installation of Temporary Water Supply, Electricity Supply, Lighting Welfare facilities etc.,         Installation of Temporary Water Supply, Electricity Supply, Lighting Welfare facilities etc.,         Installation of Temporary Water Supply, Electricity Supply, Lighting Welfare facilities etc.,         Installation of Temporary Water Supply, Electricity Supply, Lighting Welfare facilities etc.,         Coping Level EOT Crane LA 02-03 SWL 51         Coping Level EOT Crane LA 02-05 SWL 51         Coping Level EOT Crane LA 0	PST - Manufacturing of Plant         300 days \$4:03/07/21         The 2           PST - Factory Acceptance Test of Plant (to be witnessed by PM)         90 days \$4:03/07/21         Wed 2           PST - Shipping and Delivery of Plant to site         45 days (Mer 113/02/22         Wed 2           PLC System         645 days Wed 23/06/21         Wed 2           Manufacturing of Plant, PLC for PST         300 days \$4:03/07/21         Wed 2           Shipping and Delivery of Plant to site         45 days (Mer 113/02/22         Wed 2           Shipping and Delivery of Plant to site         45 days (Mer 113/02/22         Wed 2           Steinstallation Work         298 days (F14/04/23         Merci           Tenestate: CwH bandcover Date, Portion B-3, PST No. 1*4         297 days \$4:13/04/23         Merci           Installation of Temporary Water Supply, Electricity Supply, Lighting Welfare facilities etc.         30 days \$4:15/04/23         Sm 1           Coping Level EOT Crane LA-02:01 SWL 101         30 days \$4:15/04/23         Sm 1         Coping Level EOT Crane LA-02:03 SWL 51         30 days \$4:15/04/23         Sm 1           Coping Level EOT Crane LA-02:04 SWL 51         30 days \$4:15/04/23         Sm 1         Coping Level EOT Crane LA-02:04 SWL 51         30 days \$4:15/04/23         Sm 1           Coping Level EOT Crane LA-02:04 SWL 51         30 days \$4:15/04/23         Sm 1         Copi	PST - Manufacturing of Plant         300 days Sat 03/07/21         The 24/04/22         0           PST - Factory Acceptance Test of Plant (to be witnessed by PM)         50 days fin 12/04/22         Vec6 27/07/22         200           PST - Shipping and Delivery of Plant to site         45 days (then 12/06/21         Vec6 27/07/22         15           Munufacturing of Plant, PLC for PST         300 days Sat 03/07/21         Vec6 27/07/22         240           Shipping and Delivery of Plant to site         45 days (then 12/06/21         Vec6 29/07/22         16           Site Installation Work         298 days (H14/04/23         Mon 13/02/23         Vec6 29/07/22         16           Site Installation Work         298 days (H14/04/23         Mon 66/02/24         0         0           Tenstolve Chell Mandover Date, Portion B-3, PST No. 1~4 (Rev. 5)         1 days Fis1/04/23         Mon 66/02/24         0           Provision of Temporary Water Supply, Electricity Supply, Lighting Wellare facilities etc.,         30 days Sat 15/04/23         Sm 14/05/23         0           Coping Level EOT Crane LA-02-01 SW 1 101         30 days Sat 15/04/23         Sm 14/05/23         0           Coping Level EOT Crane LA-02-04 SWL 51         30 days (Mn 15/04/23         Sm 13/06/23         0           Coping Level EOT Crane LA-02-04 SWL 51         30 days (Mn 15/04/23         Sm 13/06/23	PST - Manufacturing of Plant         300 dary Sat 03/07/21         Tim 24/04/22         6 dary 397           PST - Factory Acceptance Test of Plant (to be witnessed by PM)         90 dary 13/09/22         Wei 27/07/22         200 dary 411           PST - Shipping and Delivery of Plant to site         45 dary Mon 13/02/23         Wei 27/07/22         20 dary 431           PRC System         665 dary Wei 22/06/21         Mon 13/02/23         Wei 27/07/22         20 dary 433           Factory Acceptance Test of Plant, PLC for PST (To be witnessed by PM)         00 dary The 13/04/22         Mon 13/02/23         20 dary v455           Shipping and Delivery of Plant to site         45 dary Mon 13/02/23         Mon 05/02/24         0 dary v456           Site Installation of Plant, PLC for PST (to 16 witnessed by PM)         00 dary Tar 13/04/23         Mon 05/02/24         0 dary v456           Commencement of Temporary Water Supply, Electricity Supply, Ughting Weilare facilities etc.         30 dary Sat 13/04/23         Mon 05/02/24         0 dary v437           Coping Level EOT Crane LA-02.01 SW 1.51         30 dary Sat 13/04/23         Sat 13/04/23         0 dary v439           Coping Level EOT Crane LA-02.04 SW 1.51         30 dary Mat 14/04/23         Mon 05/02/27         0 dary v439           Coping Level EOT Crane LA-02.04 SW 1.51         30 dary w41 14/04/23         Sat 13/04/23         0 dary v439 <t< td=""><td>PST - Manufacturing of Plant         300 days Sat 0,00/22         Texa 200,22         0 days, 337         4.32           PST - Factory Acceptance Text of Plant (to be witnessed by PM)         96 days, Main 1,002,23         Weid 2700,222         300 days, 411         4.31           PST - Shipping and Delivey of Plant to alte         66 days, Weid 220,0022         Mon 300,002,000         300 days, 435         456           PAC System         66 days, Weid 220,0022         Mon 300,002,000         0 days, 435         437           Shipping and Delivey of Plant to alte         56 days, Mon 11,002,23         Weid 270,002,20         0 days, 435         437           Shipping and Delivey of Plant to alte         56 days, Mon 11,002,23         Weid 270,002,20         0 days, 435         437           Shipping and Delivey of Plant to alte         56 days, Mon 12,002,27         Mon 65,02,26         0 days         0 days, 435         437           Commencement of EdM Installation at PST No, 1*4 (Bex, 5)         1 days, 511,500,73         Sin 1,400,723         0 days, 439         0 days, 431         446,445,449         0 days, 431,444,443,449         0 days, 439         0 days, 439         0 days, 439         0 days, 431,444,445,449         0 days, 441,449,423         10,402,23         0 days, 443,444,444,449,</td></t<>	PST - Manufacturing of Plant         300 days Sat 0,00/22         Texa 200,22         0 days, 337         4.32           PST - Factory Acceptance Text of Plant (to be witnessed by PM)         96 days, Main 1,002,23         Weid 2700,222         300 days, 411         4.31           PST - Shipping and Delivey of Plant to alte         66 days, Weid 220,0022         Mon 300,002,000         300 days, 435         456           PAC System         66 days, Weid 220,0022         Mon 300,002,000         0 days, 435         437           Shipping and Delivey of Plant to alte         56 days, Mon 11,002,23         Weid 270,002,20         0 days, 435         437           Shipping and Delivey of Plant to alte         56 days, Mon 11,002,23         Weid 270,002,20         0 days, 435         437           Shipping and Delivey of Plant to alte         56 days, Mon 12,002,27         Mon 65,02,26         0 days         0 days, 435         437           Commencement of EdM Installation at PST No, 1*4 (Bex, 5)         1 days, 511,500,73         Sin 1,400,723         0 days, 439         0 days, 431         446,445,449         0 days, 431,444,443,449         0 days, 439         0 days, 439         0 days, 439         0 days, 431,444,445,449         0 days, 441,449,423         10,402,23         0 days, 443,444,444,449,

יע	rainage Services D	partmant				i Effluent Polishing Pla	osed Work Programme I Int - Main Works Stage 1
1	was	Task Name	Duration Start between Task	Finish	Float Time Predecessors	Successors	Resource Names
5	465 5.18.8.2.4.2	Installation of PLC Panel, PST	Start and Finish 60 days Sat 15/04/23	Tue 13/06/2	30 days 437	467	-
	4665.18.8.2.4.3	Installation of cable trays and cable containments, PST	90 days Sat 15/04/23	Thu 13/07/2	0 days	467	
Ц.	467 5.18.8.2.4.4	Cables laying and terminations, PST	90 days Fri 14/07/23			469F5-30 days,47	2/
Ŀ	468 5.18.8.2.4.5	Tentative Civil Handover Date, LV cables draw pits from IW to PST	1 day Thu 20/07/23			4697F+30 days	
L	469 5.18.8.2.4.6	Energisation of LV Switchboards, PST	1 day Tue 12/09/21			468.474	LV - A x 4*6 men
L		-				345	LV - A x 4"6 men
л.	470 5.18.8.2.4.7	Site Acceptance Tests - Electrical aspects including voltage and current tests, equipme				343	LY - ALS O men
	471 5.18.8.2.5	SCADA Systems, PST No. 1"4	60 days Thu 12/10/2		10		
	472 5.18.8.2.5.1	Configuration of PLC System	45 days Thu 12/10/2		1 (10 (10 (10 (10 (10 (10 (10 (10 (10 (1	473	PLC-8x1man
	473 5.18.8.2.5.2	Site Acceptance Test for PLC System at PST No. 1"4	15 days Sun 26/11/2	Sun 10/12/2	0 days 472	475FF,1262	
4	474 5.18.8.2.6	Site Acceptance Test for E&M Equip and Instrumentations calibrations at PST No. 1"4	15 edays Sat 30/12/23	Sun 14/01/2	0.63 edays 450,463,469	475	
5	475 5.18.8.2.7	System Commissioning for E&M Equip at PST No, 1~4	15 days Mon 15/01/2	14 Man 29/01/	0 days 474,473FF	476	
ī	476 5.18.8.2.8	Risk Allowances for Completion of Processing Plant at PST No. 1"4	7 edays Mon 29/01/2	14 Mon 05/02/		1258	
	477 5.18.8.2.9	Building Services Installations for PST No. 1"4	150 days Fri 14/07/23	Sun 10/12/2	2 days 439F5+90 days	,391	
r i	478 5.18.8.2.9.1	Mechanical Ventilation and Air Conditioning System, PST	90 days Fri 14/07/23	Wed 11/10/	0 days	484	MVAC - B x 4~6 men
_	479 5.18 8.2.9.2	Lighting and Power Distribution System, PST	90 days Fri 14/07/23	Wed 11/10/	0 days	484	BS-Ax 4~6 men
_	480 5.18.8.2.9.3	Plumbing Installation, PST	80 days Fri 14/07/23	Sun 01/10/2	0 days 1229	1231,484	Pb - B x 4=6 men
÷.	481 5.18.8.2.9.4	CCTV Installation (9 indoor + 2 outdoor Cameras), PST	60 days Fri 14/07/23			484,1261	85 - 8 x 4~6 men
	482 5.18.8.2.9.5	Fire Services Installation, PST	85 days Fri 14/07/23				48 F5 - A x 4~6 men
4	483 5.18.8.2.9.6	Earthing and Lightning Protection System, PST	90 days Fri 14/07/23	10000000000		484	B5 - C x 2~4 men
			60 days Thu 12/10/2		A CONTRACTOR OF A CONTRACTOR O		85 - C x 2*4 men
4	484 5.18.8.2.9.7	Testing and Commissioning of Building Services Installations, PST	A REAL PROPERTY OF THE PROPERTY OF THE				
	485.5.19	Bioreactors No. 2A & 2B, Portion B-4 (PS 682.4)	1326 days Sat 15/08/20				
	486 5.19.1	Planned Key Date Completion Date - KD1A, BR 2A & 28	0.deys Eri 30/10/20				
л	487 5.19.2	Planned Key Date Completion Date - KD18, BR 2A & 28	0 days Ive 01/06/2				
I	488 5.19.3	Planned Sectional Completion Date - Section 1, BR ZA & 28	0 days Mon 12/07/2			2564	
1	489 5.19.4	Planned Sectional Completion Date - Section 2, BR 2A & 2B	0 days Mon 01/04/2	4 Mon 01/04/	c 0 days 595FF, 594FF		
1	490 5.19.5	Selection of Suppliers for major plant and materials for BR 2A & 2B	193 days Tue 01/09/2	0 Fri 12/03/21	6 days		
1	491 5,19.5.1	BR - pre-treatment fine screens (Marking Scheme Approach), EQT019	150 days Tue 01/09/2	0 Thu 28/01/2	1 O days		
1	492 5.19.5.1.1	Submission for acceptance of purchasing package	60 days Tue 01/09/20	Fri 30/10/20	0 days	493	
T	493 5.19.5.1.2	Invitation of quotations for purchasing package	60 days Sat 31/10/20	Tue 29/12/2	0 days 492	494	
1	494 5.19.5.1.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/2	to Thu 28/01/2	0 days 493	523	
	495 5.19.5.2	BR - air dilfusion system (Marking Scheme Approach), EQT017	180 days Tue 01/09/2	0 5at 27/02/2	19 days		
6	496 5.19.5.2.1	Submission for acceptance of purchasing package including proposed marking scheme	90 days Tue 01/09/2			497	-
,	497 5.19.5.2.2	Invitation of quotations for purchasing package	60 days Mon 30/11/2			498	-
8	498 5, 19.5.2.3	Acceptance of conforming quotation	30 days Fri 29/01/21			523	
9			150 days Tue 01/09/2				-
0	499 5.19.5.3	BR - submersible mixers, C11, EQT020	60 days Tue 01/09/2			501	
1	500 5.19.5.3.1	Submission for acceptance of purchasing package				502	
1	501 5.19.5.3.2	Invitation of quotations for purchasing package	60 days Sat 31/10/20			502	-
2	502 5.19.5.3.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/2			30	
3	503 5.19.5.4	BR - mixed liquor return pumps, C11, EQT008	150 days Mon 14/09/			-	
н	5045.19.5.4.1	Submission for acceptance of purchasing package	60 days Mon 14/09/			505	
5	\$05 5.19.5.4.2	Invitation of quotations for purchasing package	60 days Fri 13/11/20			506	
6	506 5.19.5.4.3	Acceptance of conforming quotation (Completed)	30 days Tue 12/01/2	1 Wed 10/02/	1 0 days 505	523	
7	507 5.19.5.5	BR - scum removal systems, C11, EQT021, EQT022	150 days Mon 14/09/	20 Wed 10/02/	2: 36 days		
8	508 5.19.5.5.1	Submission for acceptance of purchasing package	60 days Mon 14/09/	20 Thu 12/11/2	0 O days	509	
19	509 5.19.5.5.2	Invitation of quotations for purchasing package	60 days fri 13/11/20	Mon 11/01/	13 0 days 508	510	
0	5105.19.5.5.3	Acceptance of conforming quotation	30 days Tue 12/01/2	1 Wed 10/02/	13 30 days 509	523	
11	511 5.19.5.6	BR - aeration blowers (Marking Scheme Approach), EQT039	180 days Mon 14/09/	20 Fri 12/03/2	6 days		
12	12/21/21/21/21	Submission for acceptance of purchasing package including proposed marking scheme	90 days Mon 14/09/			513	
13	5135.19.5.6.2	Invitation of quotations for purchasing package	60 days Sun 13/12/2			514	-
н	5145.19.5.6.3	Acceptance of conforming guotation	30 days Thu 11/02/2			523	-
21			150 days Thu 01/10/2			1000	
15	515 5.19.5.7	BR - instrumentations, C11, EQT035-2		A Charles		517	
6	516 5.19.5.7.1	Submission for acceptance of purchasing package	60 days Thu 01/10/2		2		
7	5175.19.5.7.2	Invitation of quotations for purchasing package	60 days Mon 30/11/			518	
18	5185.19.5.7.3	Acceptance of conforming quotation	30 days Fri 29/01/21		A CONTRACTOR OF A CONTRACTOR O	523	
9	519 5.19.6	Design Submissions for BR 2A & 2B	330 days Sat 15/08/2	0 Sat 10/07/2	L 2 days		
20	520 5.19.6.1	Electrical schematic drawings for BR No. 2A & 2B	60 days Sat 15/08/20	Tue 13/10/2	0 17 days	486FF	
521	521 5.19.6.2	CDS080-3 - Civil and dimensional requirements drawings for BR 2A&28 up to +8.0 mPD	55 days Tue 01/09/2	0 Sun 25/10/2	0 O days	486FF	
22	522 5.19.6.3	COS081-3 - Civil and dimensional requirements drawings for BR 2A & 2B	210 days Fri 28/08/20	Thu 25/03/2	1 68 days	487 <i>E</i> F	
4	Long Long and						
1	~	ni Project Summary 1 G	te Xicel I	Critical SpRI Progress	Manual Pr		Milestone (Actual)

Drainage Services Department		Duration Start	Finish I	Shek Wu Hui Float Time Predecessors	Effluent Polishing Pla Successors	nt - Main Works Stage Resource Names	1 E&M Works for Sewage Treatment Facilities
The second second		between Task Start and Finish		interestors	Portenous	Passence reames	2022 2023 1007 1,2020 Huff 2,2023 Huff 2,2021 Huff 2,2021 Huff 2,2022 Huff 2,2022 Huff 2,2023 Huff 2,
	05004 - Detailed Design for Bioreactor 2A and 2B	120 edays Fri 12/03/21	Sat 10/07/21	0.63 edays 494,498,502,50	6,5530,533,536,539,9	54	
Contraction and a second	05023 - Detailed Design for Electrical Installations for BR No. 2A & 2B	30 edays Sun 23/05/21		0.63 edays 72,82,90,185FF			
21.25410000000 12022	05034-3 - Detailed Design for Electrical Installations BS at BR No. 2A & 28	100 edays Fri 12/03/21	Sun 20/06/21	22.38 edays 133	589,488FF,590		
5265.19.6.7 CO	05025-3 - Detailed Design for LV Switchboards for BR 2A and 2B	60 edays Mon 03/05/21	Fri 02/07/21	0.63 edays 68	683,488FF		
527 5.19.6.8 CD	05050-3 - Detailed Design for Lifting Appliances - BR 2A & 2B	120 edays Thu 01/10/20	Fri 29/01/21	O edays 113	557,488FF		
528 5.19.7 Man	ufacturing and Delivery of Plant & Materials	740 days Fri 29/01/21	Tue 07/02/23	258 days			
529 5.19.7.1 Pre	e-treatment Fine Screens, EQT019	577 days Sun 11/07/21	Tue 07/02/23	185 days			
530 5.19.7.1.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	292 days 523	531		
5315.19.7.1.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	16 days 530,56055-60 e	day 573		
	r Diffusion System, EQT017	577 days Sun 11/07/21					
	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21		292 days 523	534		
	Shipping and Delivery of Plant to site	45 days Sun 25/12/22		83 days 533,56055-60 e		-	
					241,574		
	ibmersible Mixer, EQT020	577 days Sun 11/07/21					
a contraction of the second	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21			537		
	Shipping and Delivery of Plant to site	45 days Sun 25/12/22		44 days 536,56055-60 e	fay 575		
A CONTRACTOR OF	ixed Liquor Return Pumps, EQT008	577 days Sun 11/07/21		228 days			
539 5.19.7.4.1	Manufacturing and Factory Acceptance Test of Plant	240 days 5un 11/07/21	Mon 07/03/25		540		
\$40.5.19.7.4.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	16 days 539,56055-60 e	fay576		
541.5.19.7.5 Su	im Removal System, EQT021, EQT022	577 days Sun 11/07/21	Tue 07/02/23	258 days			
2 542 5.19.7.5.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	292 days 523	543		
	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	46 days 542,56055-60 er	jay 577		
	eration Blowers, EQT039	577 days Sun 11/07/21		258 days	-		
	Manufacturing and Factory Acceptance Test of Plant (to be witnessed by PM)	240 days Sun 11/07/21		292 days 523	546		
	Shipping and Delivery of Plant to site	45 days Sun 25/12/22		173 days 545,56055-60 er	107		
a 100 Store (1997)	shipping and Derivery of Plant to site strumentations, EQT035-2	577 days Sun 11/07/21		243 days			
2	Manufacturing and Factory Acceptance Test of Plant	240 days 5un 11/07/21	17 (68/19/012/012	292 days 523	549		
	Shipping and Delivery of Plant to site	45 days Sun 25/12/22		166 days 548,56055-60 er	fay579		
	oplogs and Penstocks, EQT013	577 days Sun 11/07/21	Tue 07/02/23	33 days			
1 551 5.19.7.8.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	292 days 523	552		
2 552 5.19.7.8.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	16 days 551,56055-60 er	jaş 571		
1 553 5.19.7.9 Va	alves, EQT036	577 days Sun 11/07/21	Tue 07/02/23	93 days			
4 554 5.19.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	292 days 523	555		
5 555 5.19.7.9.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	16 days 554,56055-60 er	ia1572		
5 556 5.19.7.10 Lif	fting Appliances	740 days Fri 29/01/21	Tue 07/02/23	101 days			
and the second	Manufacturing and Factory Acceptance Test of Plant	210 days Fri 29/01/21	Thu 26/08/21	485 days 527	558		
	Shipping and Delivery of Plant to site	45 days Sun 25/12/22		16 days 557,56055-60 er	ian 564		
	Installation Work	348 days Thu 23/02/23		0 days			
States and the second second	entative Civil Handover Date, Portion 8-4, 8R2A & 28 (Rev. 5)	1 day Thu 23/02/23		Q days	564,570,581,5895		21/02
		1 day Thu 01/06/23		30 days	584FF+30 days	1	
	entative Civil Handover Date, LV cables draw pits from MF82 to BR2				58911+30 days		
	ommencement of E&M installation at Bioreactor No. 2A & 2B	347 days Fri 24/02/23		0 days 560		10.00	
	Provision of Temporary Water Supply, Electricity Supply, Lighting, Welfare facilities etc.,			0 days 560			
	Installation of Lifting Appliances at BR 2A & 2B	67 days Fri 24/02/23		85 days 560,558			
5 565 5.19.8.3.2.1	Coping Level EOT Crane LA-03-01 SWL 5t	30 days Fri 24/02/23	Sat 25/03/23	0 days	567,568,569	LA - A x 4°6 men	
6 566 5.19.8.3.2.2	Coping Level EOT Crane LA-03-02 SWL 5t	30 days Fri 24/02/23	Sat 25/03/23	0 days	567,568,569	LA - B x 4°6 men	
7 567 5.19.8.3.2.3	Coping Level EOT Crane LA-03-03 SWL St	30 days Sun 26/03/23	Mon 24/04/21	0 days 565,566	569	LA - A x 4*6 men	
8 568 5.19.8.3.2.4	Coping Level Mobile A-frame LA-03-04 SWL 4t	7 days Sun 26/03/23	Sat 01/04/23	23 days 565,566	569	LA - 8 x 4~6 men	
9 569 5.19.8.3.2.5	T&C, Loading Test for Lifting Appliances at Bioreactor No. 2A & 2B	7 days Tue 25/04/23	Mon 01/05/21	0 days 565,566,567,56	8 574	LA - 8 x 4*6 mm	
	Mechanical Installations for E&M Equip at BR 2A & 2B	270 days Fri 24/02/23		10 days 550	586		
1 571 5.19.8.3.3.1	Installation of penstocks and stoplogs (Penstocks Brios, Stoplogs Brios), EQT013	90 days Fri 24/02/23		0 days 552	580	ME - Ex 4~6 men	
2 572 5.19.8.3.3.2	Installation of pipework and valves, EQT036	150 days Fri 24/02/23		0 days 555	579	ME-Cx4*6men	
3 573 5.19.8.3.3.3		28 days Fri 24/02/23			575		
	Installation of pre-treatment fine screens (x4)	28 days Fri 24/02/23 90 days Tue 02/05/23		0 days 531		ME - Ax 4*6 men	
4 5745.19.8.3.3.4	Installation of air diffusion system (x2), EQT017			0 days \$69,534	578	ME - D x 2*4 men	
5 575 5.19.8.3.3.5	Installation of submersible mixers (x16), EQT020	90 days Fri 24/03/23		162 days 573,537	586	ME - B x 4°6 men	
6 5765.19.8.3.3.6	Installation of mixed liquor return pumps (x6), EQT008	30 days Fri 24/02/23		0 days 540	577	ME - A x 4~6 men	
7 5775.19.8.3.3.7	Installation of scum removal systems (x2), EQT022	45 days Sun 26/03/23	Tue 09/05/23	205 days 576,543	586	ME - B x 4~6 men	
8 5785.19.8.3.3.8	Installation of aeration blowers (x4), EQT039	45 days Mon 31/07/23	Wed 13/09/22	78 days 574,546	586	ME - D x 2~4 men	
79 5795.19.8.3.3.9	Installation of instrumentations, EQT035-2	60 days Mon 24/07/23	Thu 21/09/23	70 days 572,549	586	ME - D x 2~4 men	
80 580 5.19.8.3.3.10	Site Acceptance Tests - mechanical aspects including alignment and levels checks, leal	180 days Thu 25/05/23	Mon 20/11/21	10 days 571	586	ME - D x 2"4 men	
		and a second sec	Providence for the first	Contraction and Annual			
Teth	Milestone + Project Summary     Late	-	Critical Split	····· Manual Prog	Pess	Milestone (Actual)	
Atlestone, Tertal			Progress	Slack (Troug		- Stek -	

	. Loss	padroent	1 I	la sa	and a second sec			kM Works for Sevage Treatment Facilities
ľ	mes	Task Plane	Duration Start between Task	Fisiah	loat Time Predecessors	Successors	Resource Names	2020         2021         2022         2023         2023         2024         2024         2025         2025         2025         2026         2026         2027 <th< th=""></th<>
1	581 5.19.8.3.4	Electrical Installations for E&M Equip at BR 2A & 2B	Start and Finish 280 days Fri 24/02/23	Thu 30/11/23	0 days 560	586		
1	582 5.19.8.3.4.1	Installation of cable trays and cable containments	120 days Fri 24/02/23	Fri 23/06/23	0 days 560	583		
1	583 5.19.8.3.4.2	Cables laying and terminations	100 days Sat 24/06/23	Sun 01/10/23	0 days 582	\$85,756		
1	584 5.19.8.3,4.3	Energisation of LV Switchboards, BR2	1 day Mon 31/07/2	3 Mon 31/07/23	122 days 561FF+30 days	586	LV - A x 4~6 men	
F	585 5.19.8.3.4.4	Site Acceptance Tests - Electrical aspects including voltage and current tests, equipme	60 days Mon 02/10/2	3 Thu 30/11/23	32 days 583	345	LV - A x 4°6 men	
5	586 5.19.8.3.5	Site Acceptance Test for E&M Equip at BR 2A & 2B	30 edays Thu 30/11/2	3 Sat 30/12/23	0.63 edays \$70,575,577,57	8,5587		
,	587 5.19.8.3.6	System Commissioning for E&M Equip at BR 2A & 28	30 days Sun 31/12/23	3 Mon 29/01/24	0 days 586,758	588		
	588 5.19.8.3.7	Risk Allowances for Completion of Processing Plant at BR 2A & 2B	7 edays Mon 29/01/2	24 Mon 05/02/24	2.63 edays 587	1258		nn max
,	589 5.19.8.3.8	Building Services Installations for BR 2A & 28	195 days Thu 25/05/23	Tue 05/12/23	12 days 560FS+90 edays	5;		
0	590 5.19.8.3.8.1	Lighting and Power Distribution System, BR2	150 days Thu 25/05/23	3 Sat 21/10/23	0 days 525	595	85 - A x 4~6 men	
1	591 5.19.8.3.8.2	Plumbing Installation, BR2	120 days Thu 25/05/23	Thu 21/09/23	10 days 1229	1231,595	Pb - A x 4"6 men	
	592 5.19.8.3.8.3	CCTV Installation (7 indoor + 2 outdoor Cameras), BR2	60 days Sat 24/06/23	Tue 22/08/23	20 days 560F5+120 days		85 - B x 4"6 men	
_	593 5.19.8.3.8.4	Fire Services Installation, BR2	120 days Thu 25/05/23		15 days		15,59:FS - 8 x 4~6 men	
-	594 5.19.8.3.8.5	Ughtning Protection System, BR2	60 days Thu 25/05/23	-	253 days	489FF	B5 - C x 2~4 men	
	595 5.19.8.3.8.6	Testing and Commissioning of Building Services Installations, BR2	45 days Sun 22/10/23		118 days 590,591,592,59	489FF	B5 - C x 2*4 men	
. 1	596 5.20	Membrane Facilities Building, Pertion B-5 (PS 68.2.4)	1320 days Fri 21/08/20		0 days		1	
	597 5.20.1	Planned Key Date Completion Date - KD1A, MFB No. 2	0.days Fri 30/10/20		0.days 64317.6441E			KD14, MPI @ 30/10
	598 5.20.2	Planned Key Date Completion Date - KD1B, MFB No. 2	0 days Tue 01/06/21		0 days 6455E			
_	599 5.20.2 599 5.20.3	Planned Sectional Completion Date - Social Mr B No. 2	0 days Mon 12/07/2		0 days 646FF, 647FF, 64	151	Concerning of the second	= 12/07
0	599 5.20.3 600 5.20.4	Planned Sectional Completion Date - Section 1, MPB No. 2 Planned Sectional Completion Date - Section 2, MPB No. 2	0 days Mon 01/04/2		0 days			
	601 5.20.5	Planned Sectional Completion Date - Section 2, MPB No. 2 Selection of Suppliers for major plant and materials for MFB	224 days Tue 01/09/20		11 days			
_								
2	602 5.20.5.1	MFS - hollow fibre membrane modules (Marking Scheme Approach), ref. EQ1023	150 days Tue 01/09/20 60 days Tue 01/09/20		0 days	104		
_	603 5.20.5.1.1 604 5.20.5.1.2	Submission for acceptance of purchasing package including proposed marking scheme			0 days	604		
		Invitation of quotations for purchasing package	60 days Sat 31/10/20		0 days 603	605		
а.	605 5.20.5.1.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/2		0 days 604	646		
5	606 5.20.5.2	MFS - air scour blowers, C11, ref. EQT040	150 days Tue 01/09/20		65 days			
'	607 5.20.5.2.1	Submission for acceptance of purchasing package	60 days Tue 03/09/20		0 days	608		
8	608 5.20.5.2.2	Invitation of quotations for purchasing package	60 days 5at 31/10/20		0 days 607	609		
<u></u>	609 5.20.5.2.3	Acceptance of conforming quotation	30 days Wed 30/12/2		32 days 608	548		
	610 5.20.5.3	MES - permeate pumps, C11, ref. EQT024	180 days Tue 01/09/20		0 days			
- 1	611 5.20.5.3.1	Submission for acceptance of purchasing package	90 days Tue 01/09/20		0 days	612		
	612 5.20.5.3.2	Invitation of quotations for purchasing package	60 days Mon 30/11/2		0 days 611	613	_	
	613 5.20.5.3.3	Acceptance of conforming quotation (Completed)	30 days Fri 29/01/21		0 days 612	646		
4	614 5.20.5.4	MFS - compressed air system, C11, ref. EQT029	120 days Tue 15/09/20	0 Tue 12/01/21	B1 days			
15	615 5.20.5.4.1	Submission for acceptance of purchasing package	60 days Tue 15/09/20	Fri 13/11/20	0 days	616		
6	616 5.20.5.4.2	Invitation of quotations for purchasing package	30 days Sat 14/11/20	Sun 13/12/20	0 days 615	617		
7	617 5.20.5.4.3	Acceptance of conforming quotation	30 days Mon 14/12/2	0 Tue 12/01/21	48 days 616	648		
8	618 5.20.5.5	MFS - chemical storage tanks, C11, ref. EQT025	320 days Thu 03/10/20	0 Thu 28/01/21	65 days			
9	619 5.20.5.5.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	0 days	620		
0	620 5.20.5.5.2	Invitation of quotations for purchasing package	30 days Mon 30/11/2	0 Tue 29/12/20	0 days 619	621		
1	621 5 20 5 5 3	Acceptance of conforming quotation	30 days Wed 30/12/2	0 Thu 28/01/21	32 days 620	648		
22	622 5.20.5.6	MFS - chemical dosing pumps, C11, ref. EQT026	120 days Thu 01/10/20	0 Thu 28/01/21	65 days			
3	623 5.20.5.6.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	0 days 2,30	624		
24	624 5.20.5.6.2	Invitation of quotations for purchasing package	30 days Mon 30/11/2	0 Tue 29/12/20	0 days 623	625		
5	625 5.20.5.6.3	Acceptance of conforming quotation	30 days Wed 30/12/2	0 Thu 28/01/21	32 days 624	648		
16	626 5.20.5.7	MFS - return activated sludge pumps (Marking Scheme Approach), ref. EQT010	180 days Thu 01/10/20	0 Man 29/03/2:	0 days			
17	627 5.20.5.7.1	Submission for acceptance of purchasing package	90 days Thu 01/10/20	Tue 29/12/20	0 days	628		
28	628 5.20.5.7.2	Invitation of quotations for purchasing package	60 days Wed 30/12/2		0 days 627	629	-	
29	629 5.20.5.7.3	Acceptance of conforming quotation (Completed)	30 days Sun 28/02/21		0 days 628	646		
	630 5.20.5.8	MFS - membrane tank drain pumps, C11, ref. EQT009	180 days Tue 15/09/20		0 days	-		
11	631 5.20.5.8.1	Submission for acceptance of purchasing package	90 days Tue 15/09/20		0 days	632		
12	632 5.20.5.8.2	Invitation of quotations for purchasing package	60 days Mon 14/12/2		0 days 631	633	-	
	633 5.20.5.8.3	Acceptance of conforming quotation (Completed)	30 days Fri 12/02/21		0 days 632	646		
34	634 5.20.5.9	Plant Service Water System - booster pumps, C11, ref. EQT030	180 days Thu 15/10/20		11 days			
15	635 5.20.5.9.1	Submission for acceptance of purchasing package	90 days Thu 15/10/20		0 days	636		
16	6365.20.5.9.2	Invitation of quotations for purchasing package	60 days Wed 13/01/2		0 days 635	637		
1		Invitation of quotations for purchasing package Acceptance of conforming quotation	Constant and a state of the second					
137	637 5.20.5.9.3		30 days Sun 14/03/21		0 days 636	646		
	638 5.20.5.10	Plant Service Water System - hydro-pneumatic pressure tanks, C11, ref. EQT030	120 days Thu 01/10/20	u mu 28/01/21	85 days			

Prainage Servis	a tra tana farma	neol.			Shek Wu Hu	i Effluent Polishing Pla		1 B&M Works for Sewage Treatment Facilities
ID Was	Task	Name	Duration Start between Task	Finish	Float Time Fredecessors	Successors	Resource Names	2000         2001         2002 <th< th=""></th<>
639 5.20.5.1	10.1	Submission for acceptance of purchasing package	Start and Finish 60 days Thu 01/10/2	0 Sun 29/11/20	0 days	640	-	
6405.20.5.1		Invitation of quotations for purchasing package	30 days Mon 30/11/			641		
6415.20.5.1		Acceptance of conforming quotation	30 days Wed 30/12/			646		
642 5.20.6		Design Submissions for MFB No. 2	316 days fri 21/08/20			1000		
643 5.20.6.1		Electrical schematic drawings for MFB No. 2	60 days Fri 21/08/20			597FF		
644 5.20.6.2			30 days Tue 01/09/2			597FF	-	
		CDS080-4 - Civil and dimensional requirements drawigns for MFB no. 2 up to +8.0 mPD	210 days Fri 28/08/20			598FF		
<ol> <li>Replaced State</li> </ol>		CDS081-4 - Civil and dimensional requirements drawings for MFB No. 2					0	
646 5.20.6.4		CDS005 - Detailed Design for Membrane Filtration System, Pumps and Membrane Module						
647 5.20.6.5		CDS024 - Detailed Design for Electrical Installations for MFB No. 2	30 edays Sun 23/05/2					
648 5.20.6.6	8	CDS008 - Detailed Design for Membrane Filtration System, Air Blowers, Dosing Systems et						
649.5.20.6.7	2	CDS034-4 - Detailed Design for Electrical Installations BS at MFB No. 2	100 edays Fri 12/03/21			763,599FF		
650 5.20.6.8	.8	CDS025-4 - Detailed Design for LV Switchboards for Membrane Filtration System	60 edays Mon 03/05/			686,599FF		
651 5.20.6.9	9	CDS026-2 - Detailed Design for HV Switchboards for MFB No. 2	60 edays Sun 18/04/2	1 Thu 17/06/21	0.63 edays 64	599FF,690		
8 652 5.20,6.3	.10	CDS050-4 - Detailed Design for Lifting Appliances - MFB No. 2	150 edays Thu 15/10/2	0 Sun 14/03/21	0 edays 113	680,599FF		
653 5.20.7	5	Manufacturing and Delivery of Plant & Materials	505 days Sun 14/03/2	1 Man 01/08/2	: 3D1 days			
4 654 5.20.7.1	.1	Hollow Fibre Membrane Modules, EQT023	385 days Fri 02/07/21	Thu 21/07/2	2 191 days			
5 655 5.20.7.1	1.1	MFS - Manufacturing of Plant	300 days Fri 02/07/21	Wed 27/04/2	2 0 days 646	656		
656 5.20.7.1	.1.2	MFS - Factory Acceptance Test of Plant (to be witnessed by PM)	40 days Thu 28/04/2	2 Mon 06/06/2	2 0 days 655	657		
657 5.20.7.1	1.3	MFS - Shipping and Delivery of Plant to site	45 days Tue 07/06/2	2 Thu 21/07/22	0 days 656	715		
658 5.20.7.2		Air Scour Blowers, EQ1040	396 days Fri 02/07/21	Mon 01/08/2	: 208 days		1.1	
659 5.20.7.2		Manufacturing and Factory Acceptance Test of Plant	240 days Fri 02/07/21			660		
660 5.20.7.2		Shipping and Delivery of Plant to site	45 days Sat 18/06/22			rdan 716	-	
661 5.20.7.3		Permeate Pump, EQT024	285 days Fri 02/07/21			aca(5577	-	
662 5.20.7.3		Manufacturing and Factory Acceptance Test of Plant	240 days fri 02/07/21			663	-	
			45 days Sun 27/02/2			717		
		Shipping and Delivery of Plant to site	396 days Fri 02/07/21				-	
4 664 5.20.7.4		Compressed Air System, EQT029				666	-	
s 665 5.20.7.4		Manufacturing and Factory Acceptance Test of Plant	210 days Fri 02/07/21					
6 666 5.20.7.4		Shipping and Delivery of Plant to site	45 days Sat 18/05/2			edan 7.16		
7 667 5.20.7.5		Chemical Storage Tanks, EQT025	225 days Thu 10/06/2					
8 668 5.20.7.5		Manufacturing and Factory Acceptance Test of Plant	180 days Thu 10/06/2			669		
9 669 5.20.7.5	5.2	Shipping and Delivery of Plant to site	45 days Twe 07/12/2			721		
670 5.20.7.6	.6	Chemical Dosing Pumps, EQT026	225 days Thu 10/06/2					
1 671 5.20.7.6	.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days Thu 10/06/2	1 Mon 06/12/2	1 0 days 648	672		
8 672 5.20.7.6	.6.2	Shipping and Delivery of Plant to site	45 days Tue 07/12/2	1 Thu 20/01/2	2 104 days 671	722		
3 673 5.20.7.3	.7	Stoplags and Penstocks, EQT013	395 days Fri 02/07/21	Mon 01/08/2	208 days	4		
4 674 5.20.7.7	.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 02/07/21	Sat 26/02/22	111 days 646	675		
5 675 5.20.7.3	.7.2	Shipping and Delivery of Plant to site	45 days Sat 18/06/2	2 Mon 01/08/2	0 days 674,72755-60	eday714		
6 676 5.20.7.1	.8	Valves, EQT036	285 days Fri 02/07/21	1 Tue 12/04/2	2 499 days			
677 5.20.7.8	.8.1	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 02/07/21	Sat 26/02/22	0 days 646	678		
678 5.20.7.8	.8.2	Shipping and Delivery of Plant to site	45 days Sun 27/02/2	12 Tue 12/04/22	2 291 days 677	720		
5 679 5.20.7.	.9	Lifting Appliances	356 days Sun 14/03/2	21 Fri 04/03/22	206 days			
680 5.20.7.5		Manufacturing and Factory Acceptance Test of Plant	210 days Sun 14/03/2	1 Sat 09/10/21	101 days 652	681		
681 5.20.7.5		Shipping and Delivery of Plant to site	45 days Wed 19/01/			eday707,730		
682 5.20.7.		LV Switchboards	395 days Sat 03/07/2					
683 5.20.7.1		BR - Manufacturing of Plant	240 days 5at 03/07/2			684		
684 5.20.7.1		BR - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days Mon 28/02/			685	-	
54 685 5.20.7.		BR - Shipping and Delivery of Plant to site	45 days Sun 29/05/2			745		
A 1993			240 days Sat 03/07/2			687		
		MFS - Manufacturing of Plant	90 days Sat 03/07/2			688	-	
687 5.20.7.		MFS - Factory Acceptance Test of Plant (to be witnessed by PM)						
688 5.20.7.		MFS - Shipping and Delivery of Plant to site	45 days Sat 18/06/2			cea) /40		
689 5.20.7.		HV Switchboards, EQT031	410 days Fri 18/05/2					
690 5.20.7.	7.11.1	MFS - Manufacturing of Plant	180 days Fri 18/06/21			691		
91 691 5.20.7.	7.11.2	MFS - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days Wed 15/12/			692		
92 692 5.20.7.	7.11.3	MFS - Shipping and Delivery of Plant to site	45 days Sat 18/06/2	Z Mon 01/08/2	106 days 691,72755-60	eday749		
93 693 5.20.7.	7.12	11kV/380V Stepdown Power Transformers, EQT032	285 days Wed 23/06/	/21 Sun 03/04/2	2 553 days			
94 6945.20.7.	7.32.1	MFS - Manufacturing and Factory Acceptance Test of Plant	240 days Wed 23/06/	/21 Thu 17/02/2	2 0 days 647	695		
95 695 5.20.7.	7.12.2	MFS - Shipping and Delivery of Plant to site	45 days Fri 18/02/22	2 Sun 03/04/2	2 226 days 694	750		
96 695 5.20.7.		PLC System	285 days Wed 23/06/	/21 Sun 03/04/2	2 298 days			
	_			_				
~	Test	Mexisser + Project Summary 1 Lat	-	Critical Spla	····· Manual Pr	ogress -	Milestone (Actual)	•
Basemian	Atlest	one, Tentative 🗣 Summary 🕶 Manual Summary 🗖 Gil		troyes			- Sid	
oject: DE/2018/04								

יע	sinage Services Dep						DE/2018/04 6AM Works for Sewage Treatment Facilities
10	was	lask Blame	Duration Start Finish between Task	Float Time Predecessors	Successors	Besource Names	2020 2002 2021 2022 2023 2021 2022 2023 2023
	97 5.20.7.13.1	Manufacturing of Plant, PLC for BR2A &8	Start and Finish 210 days Wed 23/05/21 Tue 18/01/22	0 days 524	698	-	Mai 1, 2000 Mai 2, 2020 Mai 1, 2021 Mai 2, 2020 Mai 2, 2021 Mai 2, 2021 Mai 2, 2022 Mai 2, 2022 Mai 2, 2023 Mai 2,
1	985.20.7.13.2	Factory Acceptance Test of Plant, PLC for BRZA &B (To be witnessed by PM)	30 days Wed 19/01/22 Thu 17/02/22	0 days 697	699		
	99 5.20.7.13.3	Shipping and Delivery of Plant to site	45 days Fri 18/02/22 Sun 03/04/22	226 days 698	747		
	100 5.20.7.13.4	Manufacturing of Plant, PLC for MFB2	210 days Wed 23/06/21 Tue 18/01/22	0 days 647	701	-	
		Factory Acceptance Test of Plant, PLC for MF82 (To be witnessed by PM)	30 days Wed 19/01/22 Thu 17/02/22	0 days 700	702		
	01 5.20.7.13.5		45 days Fri 18/02/22 Sun 03/04/22		748		
1	02 5.20.7.13.6	Shipping and Delivery of Plant to site			/40	(	
L	703 5.20.8	Site Installation Work	683 days Sun 20/03/22 Wed 31/01/2/				20/03
1	04.5.20.8.1	Tentative Civil Handover Date, Portion B-SA, MFB No. 2 below 1st floor level (Rev. 5)	1 day Sun 20/03/22 Sun 20/03/22	0 days	707,713F5+45 eda	ay	MIS. Main
12	705 5.20.8.2	Commencement of E&M Installation at MFB No. 2 Lower Part	404 days Mon 21/03/22 Fri 28/04/23	0 daya 704			
1.	706 5.20.8.2.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, Welfare facilities etc.,		0 days 704			
Ŀ.	707 5.20.8.2.2	Installation of Lifting Appliances at MFB No. 2	66 days Mon 21/03/22 Wed 25/05/2:		ana man		
	708 5.20.8.2.2.1	B2 EOT Crane LA-04-01 SWL 5t	45 days Mon 21/03/22 Wed 04/05/22		710,711,712		
1	709 5.20.8.2.2.2	82 EOT Crane LA-04-02 SWL 5t	30 days Mon 21/03/22 Tue 19/04/22		710,711,712		
1	710 5.20.8.2.2.3	82 MR LA-04-03 SWL 5t	14 days Thu 05/05/22 Wed 18/05/22	0 days 708,709	712		
	711 5.20.8.2.2.4	B1 MR LA-04-04 SWL 3t	14 days Thu 05/05/22 Wed 18/05/22		712		
1	712 5 20.8 2.2.5	T&C, Loading Test for Lifting Appliances	7 days Thu 19/05/22 Wed 25/05/22	57 days 708,709,710,711	715		
ł	713 5.20.8.2.3	Mechanical Installations for E&M Equip. at MFB No. 2 Lower Part	359 days Thu 05/05/22 Fri 28/04/23	0 days 704FS+45 edays	72555		
t	714 5.20.8.2.3.1	Installation of penstocks and stoplogs (Penstocks 18nos, Stoplogs 11nos), EQT013	90 days Tue 02/08/22 Sun 30/10/22	0 days 675	724	ME-Ex 4~6 men	
ŀ	715 5.20.8.2.3.2	Installation of hollow fibre membrane modules (x9), EQT023	90 days Fri 22/07/22 Wed 19/10/22	191 days 657,712		ME - A x 4*6 men	
t	716 5.20.8.2.3.3	Installation of air scour blowers (x3), EQT040	90 days Tue 02/08/22 Sun 30/10/22	0 days 660,666	720,717,718	ME - B x 4~6 men	
f	717 5.20.8.2.3.4	Installation of permeate pumps (x10), EQT024	90 days Mon 31/10/22 Sat 28/01/23	0 days 716,663	720	ME - A x 4~6 men	
f	718 5.20.8.2.3.5	Installation of return activated sludge pumps (x5), EQT010	90 days Mon 31/10/22 Sat 28/01/23	0 days 716	720	ME - B x 4~6 men	
ŀ	719 5.20.8.2.3.6	Installation of membrane tank drain pumps (x2), EQT009	45 days Thu 05/05/22 Sat 18/06/22	224 days	720	ME - Cx 4+6 men	
ŀ	720 5.20.8.2.3.7	Installation of pipework and valves, EQT036	90 days 5un 29/01/23 Fri 28/04/23	0 days 716,717,718,719,	6724FF	ME - Cx 4~6 men	
ŀ	721 5.20.8.2.3.8	Installation of chemical storage tank, EQT025	60 days Thu 05/05/22 Sun 03/07/22	299 days 669		ME - D x 2"4 men	
ŀ	722 5 20.8 2 3.9	Installation of chemical dosing pumps, EQT026	60 days Thu 05/05/22 Sun 03/07/22	299 days 672		ME - D x 2"4 men	
	723 5.20.8.2.3.10	Installation of plant service water system	50 days Thu 05/05/22 Tue 02/08/22	269 days		ME - Cx 4~6 men	
L	724 5.20.8.2.3.11	Site Acceptance Tests - mechanical aspects including alignment and levels checks, leal	180 days Mon 31/10/22 Fri 28/04/23	168 days 714,720FF	760	ME - D x 2"4 men	
J.	725 5.20.8.2.4	Electrical Installations for E&M Equip. at MFB No. 2 Lower Part	150 days Thu 05/05/22 5at 01/10/22	237 days 71355			h h h h h h h h h h h h h h h h h h h
ł	726 5.20.8.2.4.1	Installation of cable trays and cable containments	150 days Thu 05/05/22 Sat 01/10/22	45 days	751		
Ŀ	727 5.20.8.3	Tentative Civil Handover Date, Portion B-58, MFB No. 2 remaining portion (Rev. 5)	1 day/Wed 17/08/22 Wed 17/08/22	0 days	730,739F5+45 eda	ar.	<u>a 12/08</u>
	728 5-20.8.4	Commencement of E&M Installation at MFB No. 2 Upper Part	532 stays Thu 18/08/22 Wed 31/01/24			1	
JE	729 5.20.8.4.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, Welfare facilities etc.,				-	
	730 5.20.8.4.2	Installation of Lifting Appliances at MFB No. 2	142 days Thu 18/08/22 Fri 06/01/23	40 days 727,681			
Ŀ	731 5.20.8.4.2.1	GF EOT Crane LA-04-05 SWL 51	45 days Thu 18/08/22 5at 01/10/22	0 days	733,734,738	LA - A x 4~6 men	
	732 5.20.8.4.2.2	GF Gantry Crane LA-04-06 SWL Bt	45 days Thu 18/08/22 5at 01/10/22	0 days	733,734,738	LA - B x 4°6 men	
L	732 5.20.8.4.2.2	1F EOT Crane LA-04-07 SWL 51	45 days Sun 02/10/22 Tue 15/11/22	0 days 731,732		LA - A x 4"6 men	
ł			45 days Sun 02/10/22 Tue 15/11/22	0 days 731,732		LA - B x 4"6 men	
	734 5.20.8.4.2.4	1F EOT Crane LA-04-08 SWL 15t RF EOT Crane LA-04-09 SWL 2t	45 days Wed 16/11/22 Fri 30/12/22	0 days 733,734	738	LA - Ax 4°6 men	
Ŀ			45 days Wed 16/11/22 Fri 30/12/22	0 days 733,734	738	LA - B x 4°6 men	
1	736 5.20.8.4.2.6	RF Retractable MR LA-04-10 SWL 2t	45 days Wed 16/11/22 Tue 22/11/22 7 days Wed 16/11/22 Tue 22/11/22	38 days 733,734	738	LA - D x 4"6 men	
1	737 5.20.8.4.2.7	Mobile A-frame IA-04-11 SWL 21					
1	738 5.20.8.4.2.8	T&C, Loading Test for Lifting Appliances	7 days 5at 31/12/22 Fri 06/01/23 377 days 5un 02/10/22 Fri 13/10/23	0 days 731,732,733,734, 0 days 727F5+45 edays		IA - A x 4~6 men	
т	7395.20.8.4.3	Mechanical Installations for E&M Equip. at MFB No. 2 Upper Part					
1	740 5.20.8.4.3.1	Installation of air scour blowers (x3)	100 days Sat 07/01/23 Sun 16/04/23	0 days 738	741,743	ME-Ax 4*6 men	
]	741 5.20.8.4.3.2	Installation of compressed air system (x1)	60 days Mon 17/04/23 Thu 15/06/23			ME - 8 x 4*6 men	
1	742 5.20.8.4.3.3	Installation of instrumentations, EQT035-1	60 days Sun 02/10/22 Wed 30/11/2:			ME - D x 2~4 men	
л.	7435.20.8.4.3.4	Site Acceptance Tests - mechanical aspects including alignment and levels checks, lea		40 days 740		ME - D x 2~4 men	
1	744 5.20.8.4.4	Electrical Installations for E&M Equip. at MFB No. 2 Upper Part	300 days Wed 16/11/22 Mon 11/09/2				
	7455.20.8.4.4.1	Installation of LV Switchboards, BR2	90 days Wed 16/11/22 Mon 13/02/25		752	LV - B x 4°6 men	
1	745 5.20.8.4.4.2	Installation of LV Switchboards, MFB No. 2	90 days Wed 16/11/22 Mon 13/02/25		752	LV - A x 4~6 mm	
1	747 5.20.8.4.4.3	Installation of PLC Panels, BR2	90 days Wed 16/11/22 Mon 13/02/23	0 days 699	752,756		
۱	7485.20.8.4.4.4	Installation of PLC Panels, MFB No. 2	90 days Wed 16/11/22 Mon 13/02/21	282 days 702		PLC - B x 1 man	
1	749 5.20.8.4.4.5	Installation of HV Switchboards, MFB No. 2	60 days Wed 16/11/22 Sat 14/01/23	30 days 692	752	HV - Ax 4% men	
1	750 5.20.8.4.4.6	installation of transformer, MFB.No. 2, EQT032	45 days Wed 16/11/22 Fri 30/12/22	327 days 695			
1	751 5.20.8.4.4.7	Installation of cable trays and cable containments	180 days Wed 16/11/22 Sun 14/05/23	192 days 726			
2	752 5.20.8.4.4.8	Cables laying and terminations	150 days Tue 14/02/23 Thu 13/07/23	0 days 745,746,747,749	757,754,753		
	753 5.20.8.4.4.9	Energisation of LV Switchboards, MFB No. 2 (Rev. 8)	1 day Mon 31/07/23 Mon 31/07/23	114 days 752		LA - A x 4°6 men	1.02
	754 5.20 8.4.4.10		60 days Fri 14/07/23 Mon 11/09/23	32 days 752	760	LV - A x 4*6 men	

Status Date Sat 20/03/21

DE\_2018\_04 Revised PG- (Rev 8, 2021-03)

Drainage Services D		During	four least	lane a				e 1 EdM Works for Sewage Treatment Facilities	A
a 1165	Task Name	Duration between Task Start and Finish	Final Finals	Float T	THE Predecessors	Successors	Resource Names	2000 2007 2007 2007 2007 2007 2007 2007	1, 2024
5 755 5.20.8.4.5	SCADA Systems, BR No. 1 & No 2, MFB No. 2		Fri 14/07/23 Tue 21/	/11/23	31 days	_			T
6 756 5.20.8.4.5.1	Configuration of PLC System for BR No. 1 & No. 2	30 days	Mon 02/10/23 Tue 31/	/10/23	0 days 747,583	758	PLC - A x 1 man		
7 757 5.20.8.4.5.2	Configuration of PLC System for MFB No. 2	30 days	Fri 14/07/23 Sat 12/	08/23	0 days 752	759			
758 5.20.8.4.5.3	Site Acceptance Test for PLC System at BR No. 1 and No. 2	21 days	Wed 01/11/23 Tue 21/	/11/23	19 days 756	761,587,1262			1
759 5.20.8.4.5.4	Site Acceptance Test for PLC System at MFB No. 2	21 days	Sun 13/08/23 Sat 02/	09/23	99 days 757	761,1262			
760 5.20.8.4.6	Site Acceptance Test for E&M Equip at MFB No. 2	30 edays	Fri 13/10/23 Sun 12/	/11/23 28.0	3 edays 739,744,754,7	24 761			
761 5.20.8.4.7	System Commissioning for E&M Equip at MFB No. 2		Mon 11/12/23 Wed 24		0 days 758,760,770,7				
2 762 5.20.8.4.8	Risk Allowances for Completion of Processing Plant at MFB No. 2		Wed 24/01/24 Wed 31			1258		Mrs. Rak	7 eday
763 5.20.8.4.9	Building Services Installations for MFB No. 2		Sun 15/01/23 Sun 10		12 days 727F5+150 ed				1
764 5.20.8.4.9.1	Mechanical Ventilation and Air Conditioning System, MFB No. 2		Sun 15/01/23 Sun 14/		90 days	770	MVAC - A x 4~6 men		
5 765 5.20.8.4.9.2	Lighting and Power Distribution System, MFB No. 2		Sun 15/01/23 Sat 12/		0 days	770	BS - A x 4~6 men		
765 5.20.8.4.9.2 5 766 5.20.8.4.9.3	Flumbing installation, MFB No. 2				30 days 1229				
	-		Sun 15/01/23 Thu 13/		· · · · · · · · · · · · · · · · · · ·	1231,770	Pb - B x 4~6 men		
7 767 5.20.8.4.9.4	CCTV Installation (10 indoor + 3 outdoor Cameras), MFB No. 2		Sun 15/01/23 Fri 14/0		20 days 727F5+120 da		BS - B x 4°6 men		
8 768 5.20.8.4.9.5	Fire Services Installation, MFB No. 2		Sun 15/01/23 Sun 14/		90 days		77)FS - B x 4*6 men		
769 5.20.8.4.9.6	Earthing and Lightning Protection System, MFB No. 2		Sun 15/01/23 Wed 15		15 days	761FF	B5 - C x 2~4 men		1
770 5.20.8.4.9.7	Testing and Commissioning of Building Services Installations, MFB No. 2		Sun 13/08/23 Sun 10/		0 days 764, 765, 766, 7	67,7761	85 - C x 2~4 men		
771 5.21	Chemical System No. 1 and No. 2, Portion B-7 & B-7B (PS 68.2.3)	1351 days	Tue 21/07/20 Man 03	1/04/24	0 days				
772 5.21.1	Planned Key Date Completion Date - KD1B, Chem Sys No. 1 & 2	<u>Q.days</u>	Ive 01/06/21 Ive 01/	106/21	0.days 7.8965,79055		and a start	KD1B, Chemical ec. 01/06	
773 5.21.2	Planned Sectional Completion Date - Section 1, Chem Sys No. 1 & 2	0 days	Mon 12/07/21 Mon 12	2/07/23	0 days 791FF, 792FF, 7	93FI	1	e, 12/07	
774 5.21.3	Planned Sectional Completion Date - Section 2, Chem 5ys No. 1 & 2	0 days	Mon 01/04/24 Mon 01	1/04/21	0 days 820FF		1		
775 5.21.4	Selection of Suppliers for major plant and materials for Chemical Systems	240 days	Thu 01/10/20 Fri 28/0	05/21	0 days				
5 776 5.21.4.1	Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQT025	240 days	Thu 01/10/20 Fri 28/0	05/21	0 days				
777 5.21.4.1.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20 Sun 29/	/11/20	0 days	778			
778 5.21.4.1.2	Invitation of quotations for purchasing package		Mon 30/11/20 Tue 29/		0 days 777	779			
779 5.21.4.1.3	Acceptance of conforming quotation		Wed 30/12/20 Thu 28/		30 days 778	791	-		
780 5.21.4.2			Thu 01/10/20 Sat 27/		22 days	131			
781 5.21.4.2.1	Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQT027		Thu 01/10/20 Sun 29/	- 110-1	0 days	782			
0.12100462000	Submission for acceptance of purchasing package			0.0071	Sillia				
782 5.21.4.2.2	Invitation of quotations for purchasing package		Mon 30/11/20 Thu 28/		0 days 781	783			
783 5.21,4,2.3	Acceptance of conforming quotation		Fri 29/01/21 Sat 27/	S.C.S.	0 days 782	791,792,793			
4 784 5.21,4.3	Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026		Thu 01/10/20 Thu 28/		66 days				
5 785 5.21.4.3.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20 Sun 29/	/11/20	0 days	786			
6 786 5.21.4.3.2	Invitation of quotations for purchasing package	30 days	Mon 30/11/20 Tue 29/	/17/20	0 days 785	787			
7 787 5.21.4.3.3	Acceptance of conforming quotation	30 days	Wed 30/12/20 Thu 28/	/01/21	30 days 786	791			
8 788 5.21.5	Design Submissions for Chemical System No. 1 and No. 2	324 days	Tue 21/07/20 Thu 10/	/06/21	33 days				
789 5.21.5.1	Electrical schematic drawings for Chemical Systems No. 1 and No. 2	60 days	Tue 21/07/20 Fri 18/0	09/20 2	56 days	772##			
0 790'5.21.5.2	CDS081-5 - Civil and dimensional requirements drawings for Chemical Systems	70 days	Fri 28/08/20 Thu 05/	/11/20	0 days	77255			
79152153	COS006 - Detailed Design for Chemical Dosing System	90 edays	Sat 27/02/21 Fri 28/0	05/21 0.6	3 edays 779,783,787	797,800,803,773	FF		
792 5.21.5.4	COS027 - Detailed Design for Electrical Installations for Chemical System No. 1	90 edays	Sat 27/02/21 Fri 28/0	05/21 4	5 edays 783	810,773FF			
793 5.21.5.5	CDS028 - Detailed Design for Electrical Installations for Chemical System No. 2	90 edays	Sat 27/02/21 Fri 28/0	05/21 4	5 edays 783	810,773FF			
4 794 5.21.5.6	CDS034-5 - Detailed Design for Electrical Installations BS at Chemical Systems		Fri 12/03/21 Thu 10/		8 edays 133	810,773FF			
5 795 5.21.6	Manufacturing and Delivery of Plant & Materials	10122-011	Sat 29/05/21 Sun 20/		17 days				
5 796 5.21.6.1	Chemical Storage Tanks, EQT025		Sat 29/05/21 Sat 08/	22229 A	88 days				
7 797 5.21.6.1.1	Manufacturing and Factory Acceptance Test of Plant		Sat 29/05/21 Wed 24		0 days 791	798			
						809	-		
	Shipping and Delivery of Plant to site		Thu 25/11/21 Sat 08/		73 days 797	8479	-		
799 5.21.6.2	Chemical Dosing Pumps, EQT027		Sat 29/05/21 Sun 20/		17 days				
800 5.21.6.2.1	Manufacturing and Factory Acceptance Test of Plant		Sat 29/05/21 Wed 24		71 days 791	801			
801 5.21.6.2.2	Shipping and Delivery of Plant to site		Fit 04/02/22 Sun 20/		2 days 800,806FF-60	eday809			
802 5.21.6.3	Chemical Transfer Pumps, EQT026		Sat 29/05/21 Sun 20/		17 days				
803 5.21.6.3.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Sat 29/05/21 Wed 24	4/11/21	71 days 791	804			
4 804 5.21.6.3.2	Shipping and Delivery of Plant to site	45 days	Fri 04/02/22 Sun 20/	/03/22	2 days 803,806FF-60	edas 809			
5 805 5.21.7	Site Installation Work	307 days	Tue 22/03/22 Mon 23	3/01/2: 4	15 days				-
6 806-5.21.7.1	Tentative Civil Handover Date, Portion 8-7 & 8-78 (Rev. 5)	1 day	Thu 19/05/22 Thu 19/	/05/22	0 days	BO4FF-50 edays,8	101	15/05	
807 5.21.7.2	Tentative Civil Handover Date, Chemical Pipe Trench (by others)	1 day	Sun 01/05/22 Sun 01/	/05/22	33 days	809FF+50 days		adum .	
8 808 5.21.7.3	Commencement of E&M Installation at Chemical Dosing System 1 and System 2	307 days	Tue 22/03/22 Mon 23	a/01/2: 4	15 days				_
9 809 5.21.7.3.1	Mechanical installations for E&M Equip. for Chemical Dosing System		Tue 22/03/22 Man 20		0 edays 807FF+50 days	80(810	ME - Dx 2*4 men	4	
0 8105.21.7.3.2	Electrical Installations for E&M Equip. for Chemical Dosing System		Mon 20/06/22 Sun 18/		3 edays 809,792,793,7				
811 5.21.7.3.3	Site Acceptance Test for E&M Equip for Chemical Dosing System		Mon 19/09/22 Wed 02	100 H	0 days 810	812			
812 5.21.7.3.4	System Commissioning for E&M Equip for Chemical Dosing System		Thu 03/11/22 Sat 17/	1100 C	0 days 811	813			
	streets commissioning for commentation possing system	4.9 0.845	som ingte sit 1/			1			
	ant Miletana I Projectionary 1 1	Late Oritical	Crisical Sp Program	pa 313	Manual Pr		Misstore (Actual) *		

813	W85						the particular state of the local data and t
813 8	10.217	Task Name	between Task	Finish Fi	out Time Predecessors	Successors	Resource Names
	135.21.7.3.5	Risk Allowances for Completion of Processing Plant at Chemical Dosing System	Start and Finish 7 edays Sat 17/12/22	Sat 24/12/22 4	10.63 edays 812	1258	
14 8	145.21.7.3.6	Building Services Installations at Chemical Dosing System areas	249 days Fri 20/05/22		419 days		
	815 5.21.7.3.6.1	Lighting and Power Distribution System, Chem 1&2	120 days Fri 20/05/22	Fri 16/09/22	9 days 806	820	BS - B x 4~6 men
	16 5.21.7.3.6.2	Fire Services Installation, DG Stores	120 days Fri 20/05/22		9 days 806	1194,1195,1185,8	2 FS - A x 4~6 men
	817 5.21.7.3.6.3	Lightning Protection System, Chem 1&2	30 days Eri 20/05/22		99 days 806	820	
	818 5.21.7.3.6.4	Mechanical Ventilation System, Chem 2	14 days Fri 20/05/22	Thu 02/06/22	115 days 806	820	MVAC - A x 4~6 men
	8195.21.7.3.6.5	Plumbing Installation, Chem 1	7 days Mon 19/09/22		0 days 810	820	Pb - Ax 4"6 men
C	120 5.21.7.3.6.6	Testing and Commissioning of Building Services Installations, Chem 1&2	320 days Mon 26/09/22		434 days 815,816,819,818		B5 - C x 2~4 men
S. 1.1	215.22	Temporary Chemical Dosing System, Portion 87 & 8-78 (PS 68.2.3)	1344 days Tue 28/07/20	Mon 01/04/2	0 days		State VLD Service
	122 5. 22.1	Planned Key Date Completion Date - KD18, Temp. Chem Dosing Sys	0 days Tue 01/06/21		0.dars 83955,84055		
15	23 5.22.2	Planned Sectional Completion Date - Section 1, Temp. Chem Dosing Sys	0 days Mon 12/07/21	Mon 12/07/21	0 days 841FF	1	1
	824 5.22.3	Planned Sectional Completion Date - Section 2, Temp. Chem Dosing Sys	0 days Mon 01/04/24		0 days		
1	25 5.22.4	Selection of Suppliers for major plant and materials for Temp. Chemical Dosing System	150 days Thu 01/10/20		668 days		
	826 5.22.4.1	Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQT025	120 days Thu 01/10/20		75 days		
· · ·	827 5.22.4.1.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20		0 days	828	
	828 5.22.4.1.2	Invitation of quotations for purchasing package	30 days Mon 30/11/20		0 days 827	829	
	828 5.22.4.1.2	Invitation of quotations for purchasing package Acceptance of conforming quotation	30 days Wed 30/12/20		0 days 828	841,844	
	829 5.22.4.1.3	Acceptance of conforming quotation Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQT027	150 days Thu 01/10/20		668 days		
	830 5.22.4.2		60 days Thu 01/10/20		0 days	832	
2.2		Submission for acceptance of purchasing package	60 days Mon 30/11/20		0 days 831	833	
201	832 5.22,4,2,2	Invitation of quotations for purchasing package	30 days Mon 30/11/20		0 days 832	833	
111	833 5.22,4.2.3	Acceptance of conforming quotation			0 days 832 698 days		
1.1	834 5.22.4.3	Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026	120 days Thu 01/10/20			836	
	835 5.22.4.3.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20 30 days Mon 30/11/20		0 days 0 days 835	830	
	836 5.22.4.3.2	Invitation of quotations for purchasing package		122111112254000			
_	837 5.22.4.3.3	Acceptance of conforming quotation	30 days Wed 30/12/20		0 days 836	850	
	838 5.22.5	Design Submissions for Temporary Chemical Dosing System	275 days Tue 28/07/20		75 days		
- L - L - L - L - L - L - L - L - L - L	839 5.22.5.1	Electrical schematic drawings for Temporary Chemical Dosing System	60 days Tue 28/07/20		249 days	822FF	
	840 5.22.5.2	CDS081-6 - Civil and dimensional requirements drawings for Temporary Chemical Dosing 5			208 days	822FF	
6 a 1	841 5.22.5.3	CDS029 - Detailed Design for Electrical Installations for Temporary Chemical System	90 edays Thu 28/01/21		75 edays 829	857,823FF	
11	842 5.22.6	Manufacturing and Delivery of Plant & Materials	416 days Fri 29/01/21		507 days		
101	843 5.22.6.1	Chemical Storage Tanks, EQT025	416 days Fri 29/01/21		507 days		
- A	844 5.22.6.1.1	Manufacturing and Factory Acceptance Test of Plant	180 days Fri 29/01/21		191 days 829	845	
	845,5.22.6.1.2	Shipping and Delivery of Plant to site	45 days Fri 04/02/22		20 days 844,853FF-60 ec	ay 856	
-	846 5.22.6.2	Chemical Dosing Pumps, EQT027	386 days Sun 28/02/21		507 days	Lui-	
	847 5.22.6.2.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sun 28/02/21		161 days 833	848	
	848 5.22.6.2.2	Shipping and Delivery of Plant to site	45 days Fri 04/02/22		20 days 847,853FF-60 et	lay856	
	849 5.22.6.3	Chemical Transfer Pumps, EQT026	416 days Fri 29/01/21		507 days		
	850 5.22.6.3.1	Manufacturing and Factory Acceptance Test of Plant	180 days Fri 29/01/21		191 days 837	851	
S 1.	851 5.22.6.3.2	Shipping and Delivery of Plant to site	45 days Fri 04/02/22		20 days 850,853FF-60 ec	laj 856	
S 14	852.5.22.7	Site Installation Work	361 days 5at 09/04/22		313 days		
	853 5.22.7.1	Tentative Civil Handover Date, Temporary Chemical Dosing (Rev. 5)	1 day Thu 19/05/22		0 days	845FF-60 edays,8-	48
4	854 5.22.7.2	Tentative Civil Handover Date, Chemical Pipe Trench (by others)	1 day Sun 01/05/22		51 days	856FF+50 days	
5	855 5.22.7.3	Commencement of E&M Installation at Temporary Chemical Dosing System	361 days 5at 09/04/22		313 days		1
56	856 5.22.7.3.1	Mechanical Installations for E&M Equip. for Chemical Dosing System	90 edays Sat 09/04/22		O edays 854FF+50 days,1		SIME - D x 2~4 men
57	857 5.22.7.3.2	Electrical Installations for E&M Equip. for Chemical Dosing System	90 edays Mon 09/05/22	Sun 07/08/22	0 edays 85655+30 edays	,8<858	
58	858 5.22.7.3.3	Site Acceptance Test for E&M Equip for Chemical Dosing System	30 edays Sun 07/08/22	Tue 05/09/22	174 edays 856,857	859	
9	859 5.22.7.3.4	System Commissioning for E&M Equip for Chemical Dosing System	30 edays Mon 27/02/23	Wed 29/03/21	0 edays 858,865FF	860	
0	860 5.22.7.3.5	Risk Allowances for Completion of Processing Plant at Chemical Dosing System	7 edays Wed 29/03/23	Wed 05/04/2: 1	808.63 edays 859	1258	
	861 5.22.7.3.6	Building Services Installations at Temp. Chemical Dosing System areas	314 days Fri 20/05/22	Wed 29/03/22	313 days		
62	862 5.22.7.3.6.1	Lighting and Power Distribution System, Temp. Chem	90 days Fri 20/05/22	Wed 17/08/22	0 days 853	866,863	65 - A x 4~6 men
	863 5.22.7.3.6.2	Fire Services Installation, DG Stores, Temp. Chem	90 days Thu 18/08/22		0 days 862	1194,1195,866,86	4 F5 - A x 4*6 men
2 I.	864 5.22.7.3.6.3	Lightning Protection System, Temp. Chem	30 days Wed 16/11/22		0 days 863	865	
× 1	865 5.22.7.3.6.4	Mechanical Ventilation System, Temp. Chem	14 days Fri 16/12/22		0 days 864	866	MVAC - A x 4~6 men
	866 5.22.7.3.6.5	Testing and Commissioning of Building Services Installations, Temp. Chem	90 days Fri 30/12/22		0 days 862,863,865	859FF	BS - C x 2~4 men
-	867 5.23	Emergency Generator House, Portion 87 & 8-78 (PS 68.6.6)	1279 days Thu 01/10/20		0 days		The second second second
	868 5.23.1	Planned Key Date Completion Date - KD18, Emergency Generator House	0 days Tue 01/06/21		O claus BZZEE		
	869 5.23.2	Planned Key Date Completion Date - Koto, Emergency Generator House Planned Sectional Completion Date - Section 1, Emergency Generator House	0 days Mon 12/07/21		0 days 873FF, 874FF	NA STREET, STREET, ST	
	869 5.23.2 870 5.23.3		0 days Mon 01/04/24		0 days 887FF		
10.00	8/05.23.3	Planned Sectional Completion Date - Section 2, Emergency Generator House	0 0 4 1 4 MOR 0 1/04/24	and other the	A PALY DOLLS		1

News         Design Submissions for Emergency Generator Set           CDS081-10 - Civil and dimensional requirements drawings for Emergency Generator Houx           CDS081-0- Lottaled Design for Emergency Generator Set           CDS084-0-Etailed Design for Electrical Installations B5 at Emergency Generator Houx           Manufacturing and Pactory Acceptance Test of Plant           Shipping and Delivery of Plant to Site           Site Installation Work           Tentative Chill Handover Date, Emergency Generator House (Nev. 5)           Commencement of E&M Installation at Emergency Generator House           Application for EPD's Approval for Installation of Desei Engine Generator           Installation and SAT of Emergency Generator House (Nev. 5)           Commencement of E&M Installation at Emergency Generator House           Fire Services Installation, GH           Mechanical Ventilition System, GH           Lightning Protection System, GH           Testing and Completion Date - Section 2, DOU 1           Planned Sectional Completion Date - Section 2, DOU 1           Planned Sectional Completion Date - Section 2, DOU 1           Submission for acceptance of purchasing package           Acceptance of conforming quotation (Completed)           DOU - FR air ductwork, C11, EQT047           Submission for acceptance of purchasing package           Mortalion of quotations for purchasing package	between Task Start and Finish 252 days Thu 01/10/20 Thu 10/06/21	0 edays 133 616 days 0 days 874 589 days 876,879 F6 0e 27 days 1 day 27 days 833 days 874 0 days 883,777 27 days 0 days 883,777 27 days 0 days 883,777 27 days 0 days 883,777 27 days 0 days 885,777 27 days 0 days 885,777 0 days 885,777 0 days 885,777 0 days 885,777 0 days 885,777 0 days 885,777 0 days 895,777 0 days 893,777 0 days 895,777 0 days 895,7777 0 days 895,777 0 days 895,7777 0 days 895,77777 0 days 895,77777 0 days 895,77777 0 days 895,777777 0 days 895,777777777777777777777777777777777777	856FF-50 days,1 884 884 885 885 886 887 887 8370F 8370F 8370F 835 855 855 904 899	Presource Hiemes  Presource Hiemes  Provide Hi
CDS081-10 - Civil and dimensional requirements drawings for Emergency Generator House CDS081 - Detailed Design for Emergency Generator Set CDS081 - Detailed Design for Emergency Generator Set CDS081 - Detailed Design for Electrical Installations 85 at Emergency Generator House, F Manufacturing and Factory Acceptance Test of Flant Shipping and Delivery of Plant to Site Site Installation Work Tentative Chril Handover Date. Emergency Generator House (Nev. 5) Commencement of E&M Installation at Emergency Generator House (Nev. 5) Commencement of E&M Installation at Emergency Generator House Application for EPD's Approval for Installation of Diesel Engine Generator Installation and SAT of Emergency Rower Generator House Fire Services Installation, GH Mechanical Ventilution System, GH Lightning Protection System, GH Testing and Commissioning of Building Services Installation, GH recodentiation System, CH Romed Sectional Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - Honorkking Ritter (OOU No. 1), C11, ref. FQT001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	Stett and Finish         232 days Fri Du 0/10/20         Thu 10/06/21           232 days Fri 00/01/21         Wed 31/01/21           90 days Fri 00/01/21         Wed 31/01/21           90 days Fri 00/01/21         Wed 31/01/21           90 days Fri 01/01/21         Thu 10/06/21           90 days Fri 12/01/21         Thu 10/06/21           90 days Fri 12/01/21         Thu 10/06/21           285 days Thu 10/06/21         Fri 04/02/22           45 days Sto 05/02/22         Mon 21/03/21           100 days Thu 10/06/21         The 05/00/24           100 days Thu 10/06/21         The 05/00/24           100 days Thu 10/06/21         The 05/00/24           100 days Thu 10/06/21         Wed 00/11/25           100 days Thu 10/06/21         Wed 00/11/25           101 days Thu 30/06/21         Wed 00/02/21           101 days Thu 30/06/21         Wed 00/02/21           101 days Thu 30/02/24         Thu 05/02/24           101 days Thu 30/02/24         Thu 05/02/24           101 days Thu 13/02/24         Thu 05/02/24           101 days Thu 13/02/24         Thu 05/02/24           101 days Thu 13/02/24         Thu 05/02/24           01 days Mon 02/12/19         Mon 03/04/24           01 days Thu 01/06/21         Mon 03/04/24	62 days 134.38 edays 0 edays 133 0 days 134 589 days 474 589 days 476,8797 60 e 27 days 1 days 853 days 874 0 days 883 0 days 885 27 days 885 0 days 885 27 days 886 0 days 885 20 days 886 0 days 885 0 days 886 0 days 885 0 days 886 0 days 895 10 days 895 10 days 898	800FF           872,481,809F           877           877           877           887           887           887           882           885           886           886           870FF           870FF           895           955           956           904           899	G5 - A x 4 men F5 - A x 4°6 men MVAC - A x 4°6 men
CDS081-10 - Civil and dimensional requirements drawings for Emergency Generator House CDS081 - Detailed Design for Emergency Generator Set CDS081 - Detailed Design for Emergency Generator Set CDS081 - Detailed Design for Electrical Installations 85 at Emergency Generator House, F Manufacturing and Factory Acceptance Test of Flant Shipping and Delivery of Plant to Site Site Installation Work Tentative Chril Handover Date. Emergency Generator House (Nev. 5) Commencement of E&M Installation at Emergency Generator House (Nev. 5) Commencement of E&M Installation at Emergency Generator House Application for EPD's Approval for Installation of Diesel Engine Generator Installation and SAT of Emergency Rower Generator House Fire Services Installation, GH Mechanical Ventilution System, GH Lightning Protection System, GH Testing and Commissioning of Building Services Installation, GH recodentiation System, CH Romed Sectional Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - Honorkking Ritter (OOU No. 1), C11, ref. FQT001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	50 days Fri 03/01/21 Wed 33/03/21 150 edays Fri 03/01/21 Wed 33/03/21 150 edays Fri 03/01/20 Sun 28/02/21 285 days Thu 10/06/21 Thu 10/06/21 285 days Thu 10/06/21 Thu 20/06/21 45 days Sut 05/02/22 Mon 21/03/25 1000 days Thu 10/06/21 The 65/03/24 1000 days Thu 10/06/21 Wed 30/06/21 60 days Wed 01/11/25 Sat 30/12/23 166 days Sun 31/12/23 Thu 10/06/21 40 days Sun 31/12/23 Thu 10/06/21 100 days Thu 10/06/21 Wed 30/06/21 60 days Wed 01/11/25 Sat 30/12/23 166 days Sun 31/12/23 Thu 10/06/21 20 days Thu 13/06/21 Wed 30/06/21 160 days Thu 13/06/21 Wed 30/06/21 160 days Thu 13/06/21 Wed 30/06/21 160 days Thu 13/06/21 Thu 10/06/21 20 days Thu 13/02/24 Thu 50/01/24 15 days Thu 13/02/24 Thu 50/01/24 15 days Thu 13/02/24 Thu 50/01/24 15 days Thu 13/02/24 Thu 50/00/24 15 days Thu 12/07/21 Mon 30/04/25 0 days Mon 02/12/19 Mon 30/04/25 485 days Mon 02/12/19 Thu 30/03/20 60 days Mon 02/12/19 Thu 30/03/20 60 days Mon 02/12/19 Thu 30/03/20 60 days Thu 31/01/20 Tri 12/06/20 120 days Mon 02/12/19 Thu 30/03/20 60 days Thu 31/01/20 Tri 12/06/20 14 days Sat 30/05/20 Tri 12/06/21 130 days Thu 31/2/27 Thu 80/01/21 130 days Thu 31/01/20 Tri 20/03/20 14 days Sat 30/05/20 Tri 12/06/21	62 days 134.38 edays 0 edays 133 0 days 134 589 days 474 589 days 476,8797 60 e 27 days 1 days 853 days 874 0 days 883 0 days 885 27 days 885 0 days 885 27 days 886 0 days 885 20 days 885 0 days 885 0 days 886 0 days 885 0 days 886 0 days 895 10 days 895 10 days 898	800FF           872,481,809F           877           877           877           887           887           887           882           885           886           886           870FF           870FF           895           955           956           904           899	G5 - A x 4 men F5 - A x 4°6 men MVAC - A x 4°6 men
CDSD61 - Detailed Design for Emergency Generator Set CDSD64 - Detailed Design for Electrical Installations BS at Emergency Generator House, F Manufacturing and Delivery of Plant & Materials: Manufacturing and Delivery of Plant to Site Site Installation Work Tentable Chill Handover Date, Emergency Generator House (Nev. 5) Commencement of E&M Installation at Emergency Generator House Application for EPD's Approval for Installation of Diesel Engine Generator Installation and SAT of Emergency Generator House (Nev. 5) Commencement of E&M Installation at Emergency Generator House Fire Services Installation, GH Mechanical Ventilution System, GH Testing and Commissioning of Building Services Installation, GH resolution System, DOU 1, Portion DJ & B - Pla (PS 69.2.6) Planned Key Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Flant and Materials DOU - biotickling filter (OOU No. 1), C11, ref. FQ1001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Invitation of quotations for purchasing package Invitation of quotations for purchasing package	150 edays Thu 01/0720 Sun 28/02/21 90 edays Thu 01/0720 Sun 28/02/21 150 edays Thu 12/03/21 Thu 10/05/21 285 days Thu 10/06/21 The 05/02/22 45 days Sut 05/02/22 Mon 21/03/25 1000 days Thu 10/06/21 The 05/02/24 1000 days Thu 10/06/21 The 05/02/24 1000 days Thu 10/06/21 Wed 30/06/21 60 days Wed 01/11/23 Sat 10/12/23 66 days Sun 31/22/23 Mon 29/01/24 16 days Sun 31/22/24 The 25/00/24 16 days Mon 02/12/19 Mon 01/04/24 0 days Mon 02/12/19 Mon 01/04/24 485 days Mon 02/12/19 Fit 12/06/20 120 days Mon 02/12/19 Fit 12/06/20 120 days Mon 02/12/19 The 30/03/21 60 days The 31/01/20 Fit 12/06/20 120 days The 31/02/20 Fit 12/06/20 120 days The 31/02/20 Fit 12/06/20 120 days The 31/22/20 Fit 12/06/20 120 days	134.38 edays 0 edays 133 616 days 829 days 824 270 days 270 days 200 d	800FF           872,481,809F           877           877           877           887           887           887           882           885           886           886           870FF           870FF           895           955           956           904           899	G5 - A x 4 men F5 - A x 4°6 men MVAC - A x 4°6 men
CDSD34.4 - Detailed Design for Electrical Installations IIS at Emergency Generator House, F Manufacturing and Delivery of Plant & Materials Manufacturing and Delivery of Plant & Materials Shipping and Delivery of Plant to Site Site installation Work Tentative Chill Handover Date, Emergency Generator House (Her. 5) Commencement of E&M Installation at Emergency Generator House Installation and SAT of Emergency Generator House (Her. 5) Commencement of E&M Installation at Emergency Generator House Installation and SAT of Emergency Power Generator House Installation and SAT of Emergency Fower Generator House Fire Services Installation, GH Mechanical Ventilation System, GH Lightning Protection System, GH Testing and Commissioning of Building Services Installation, GH Planned Sectional Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - Houcksing filter (DOU No. 1), C13, nef. EQ1001 Submission for acceptance of purchasing package Acceptance of conforming quotation (Completed) DOU - Hourd Sing Filter, C11, EQT047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Invitation of quotations for purchasing package Invitation of quotations for purchasing package	S0 edays         Fni 12/03/21         Thu 10/06/21           285 days         Thu 10/06/21         Men 21/03/21           280 days         Thu 10/06/21         Fni 04/02/22           280 days         Stati 05/02/22         Man 21/03/21           1000 days         Thu 10/06/21         Fni 04/02/22           1000 days         Nu 10/06/21         Fni 19/05/22           1000 days         Thu 10/06/21         Thu 50/07/24           21 days         Shan 31/2/27         Mon 29/01/24           21 days         Shan 31/2/27         Mon 29/01/24           20 days         Shan 31/2/27         Mon 29/02/24           21 days         Thu 10/06/21         Thu 05/05/21           21 days         Thu 10/06/21         Thu 05/05/21           21 days         Thu 02/07/21         Mon 20/02/24           21 days         Thu 02/07/21         Mon 02/04/24           21 days         Mon 02/12/1	0 edays 133 616 days 0 days 874 589 days 876,879 F6 0e 27 days 1 day 27 days 853 days 874 0 days 883,777 27 days 0 days 883,777 27 days 0 days 883,777 27 days 0 days 883,777 27 days 0 days 885,777 27 days 0 days 885,777 0 days 885,777 0 days 885,777 0 days 885,777 0 days 885,777 0 days 885,777 0 days 895,777 0 days 893,777 0 days 895,777 0 days 895,7777 0 days 895,777 0 days 895,7777 0 days 895,77777 0 days 895,77777 0 days 895,77777 0 days 895,777777 0 days 895,777777777777777777777777777777777777	R75,813,809F R77 877 877 877 877 877 877 877	G5 - A x 4 men F5 - A x 4°6 men MVAC - A x 4°6 men
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Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to Site Site Installation Work Tentative Chil Handover Date, Emergency Generator House (Aev. 5) Commencement of LEM Installation at Emergency Generator House Application for EPD's Approval for Installation of Diesel Engine Generator Installation and SAT of Emergency Generator House (Aev. 5) Commencement of LEM Installation at Emergency Generator House Application for EPD's Approval for Installation of Diesel Engine Generator Installation and SAT of Emergency Generator House Fries Services Installation, GH Uightning Protection System, GH Uightning Protection System, GH Planned Kottac Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - House Installation for LOU No. 1), C11, ref. EQT001 Submission for acceptance of purchasing package Invitation of quotations for purchasing pac	240 days Thu 10/06/21 Fri 04/02/22 45 days Sat 05/02/22 Mon 21/07/27 1000 days Thu 10/06/21 True 05/07/24 1000 days Thu 10/06/21 True 05/07/24 20 days Mon 02/07/27 Thu 10/06/21 60 days Wed 01/11/23 Sat 30/12/23 66 days Sun 31/12/23 True 05/07/24 20 days True 31/02/24 True 27/02/24 20 days True 31/02/24 True 27/02/24 20 days Mon 21/12/25 True 05/07/24 15 days True 31/02/24 True 25/07/24 20 days Mon 02/12/19 Mon 01/04/24 0 days Mon 02/12/19 Mon 01/04/24 0 days Mon 02/12/19 True 05/07/24 15 days True 31/06/21 True 05/07/24 15 days True 31/02/24 True 05/07/24 15 days True 31/02/24 True 05/07/24 15 days True 31/02/24 True 05/07/24 15 days True 01/06/24 Mon 01/04/24 0 days Mon 02/12/19 Mon 01/04/25 20 days Mon 02/12/19 True 03/03/27 60 days Mon 02/12/19 Mon 03/03/27 60 days True 31/01/20 True 30/03/27 60 days True 31/01/20 True 30/03/27 60 days True 31/01/20 True 30/03/27 14 days True 31/01/20 True 30/03/27 15 days True 31/01/20 True 30/03/27 16 days True 31/21/29 True 30/03/27 17 days True 31/21/29 True 30/03/27 18 days Mon 02/12/19 True 30/03/27 19 days True 31/21/29 True 30/03/27 19 days True 31/21/29 True 30/03/27 19 days True 31/21/29 True 30/03/27 10 days True 31/21/29 True 30/03/	0 days 874 589 days 876,8791F 40 a 27 days 853 days 874 0 days 883,877 27 days 0 days 883 0 days 884 0 days 885 27 days 0 days 886 0 days 0 days	den 882 856f+30 dan,1 887 887 887 887 887 887 887 88	G5 - A x 4 men F5 - A x 4°6 men MVAC - A x 4°6 men
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Tentative Civil Handover Date, Emergency Generator House (Hev. 5) Commencement of E&M Installation at Emergency Generator House Application for EPD's Approval for Installation of Diesel Engine Generator Installation and SAT of Emergency Power Generator and associated work, GH Building Services Installation at Emergency Generator House Fire Services Installation, GH Mechanical Ventilation System, GH Ughtning Protection System, GH Testing and Commissioning of Building Services Installation, GH Planned Sectional Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - Indikking filter (DOU No. 1), C13, nef. EQ1001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Invitati	1 der         Thu 19/05/22         Thu 19/05/22           1000 darps Thu 10/05/21         Thu 10/05/21           21 darp Thu 10/05/21         Stat 30/12/23           30 darp Wed/V1/24         Stat 30/12/23           30 darp Wed/V1/24         Mon 23/01/24           31 darp Wed 28/02/24         Thu 05/05/21           32 darp Wed 28/02/24         Thu 05/05/21           155 darp Mon 02/12/15         Mon 32/07/21           32 darp Wed 28/02/24         Thu 03/05/21           34 darp Mon 02/12/12         Thu 03/05/21           35 darp Mon 02/12/15         Thu 03/05/21           36 darp Mon 02/12/19         Thu 03/05/21           320 darp Mon 02/12/19         Thu 03/05/21           320 darp Mon 02/12/19         Thu 03/05/20           320 darp Mon 02/12/19         Mon 03/03/20           44 darp Sa 10/05/20         ri 12/05/20           320 darp Thu 03/12/20         ri 12/05/21           320 da	1 day 27 days 853 days 874 0 days 882 0 days 882 0 days 885 27 days 0 days 885 27 days 0 days 885 0 days 0 days 895 0 days 0 days 90	82 882 884 885 887 820ff 820ff 835 895 895 895	G5 - A x 4 men F5 - A x 4°6 men MVAC - A x 4°6 men
Commencement of E&M Installation at Emergency Generator House Application for EPD's Approval for Installation of Diesel Engine Generator Installation and SAT of Emergency Rever Generator and associated work, GH Building Services Installation at Emergency Generator House Frie Services Installation, GH Mechanical Ventilation System, GH Lightning Protection System, GH Generator and Commissioning of Building Services Installation, GH Generation and Commissioning of Building Services Installation, GH Generation System, GH Frie Services, Installation at Emergency Generator House Planned Key Date Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - HordKing filter (DOU No. 1), C11, ref. EQ1001 Submission for acceptance of purchasing package Invitation of quotations for	1000 dryn Thui 18/06/21         Tue 05/00/24           21 dryn Thui 10/06/21         Wed 30/10/21           20 dryn Wed 01/11/21         Sai 10/12/31           66 dryn Sun 31/12/23         Tue 05/00/24           20 dryn Sun 31/12/23         Tue 05/00/24           21 dryn Wed 28/02/24         Tue 05/00/24           21 dryn Wed 28/02/24         Tue 05/00/24           21 dryn Wed 28/02/24         Tue 05/00/24           0 dryn Mon 02/12/19         Mon 01/04/27           0 dryn Mon 02/12/19         Tue 03/05/21           0 dryn Mon 02/12/19         Tue 03/05/21           13 dryn Mon 02/12/19         Tue 03/05/21           14 dryn Mon 02/12/19         Tue 03/05/20           120 dryn Mon 02/12/19         Tra 03/05/20           120 dryn Mon 02/12/20         Tra 03/05/20           120 dryn Mon 02/12/20         Tra 03/05/20           120 dryn Mon 0	27 days 853 days 874 0 days 865,877 27 days 0 days 862 0 days 885 27 days 886 0 days 886 0 days 0 days 0 days 9 days 0 days 9 da	82 882 884 885 887 820ff 820ff 835 895 895 895	G5 - A x 4 men F5 - A x 4°6 men MVAC - A x 4°6 men
Application for EPD's Approval for Installation of Diesel Engine Generator Installation and SAT of Emergency Power Generator and associated work, GH Building Services Installation, GH Fire Services Installation, GH Uightning Protection System, GH Uightning Protection System, GH Testing and Commissioning of Building Services Installation, GH Beaderization, DOU 1, Portion B2T & 8-78 (Se 2.6) Planned Ky Date Completion Date - Section 1, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Flant and Materials DOU-bioteking Fitter (QOU No. 1), C11, ref. FQT001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	21 dayı Tinu 10/06/21 Wed 30/06/21 60 dayı Wed 01/11/23 Sat 30/12/23 66 dayı Sun 31/22/23 Tun 06/00/24 30 dayı Sun 31/22/23 Mon 29/01/24 14 dayı Tun 29/06/24 Mon 29/01/24 15 dayı Tun 31/02/24 Tun 27/02/24 7 dayı Wed 28/02/24 Tun 27/02/24 5 dayı Mon 02/12/19 Mon 01/04/24 0 dayı Mon 02/12/19 Mon 01/04/24 0 dayı Mon 02/12/19 Mon 01/04/24 405 dayı Mon 02/12/19 Fin 30/06/21 194 dayı Mon 02/12/19 Fin 30/06/21 194 dayı Mon 02/12/19 Fin 30/06/21 195 dayı Mon 02/12/19 Fin 30/06/20 120 dayı Mon 02/12/19 Fin 30/06/20 120 dayı Mon 02/12/19 Fin 30/06/20 120 dayı Mon 02/12/19 Fin 30/05/20 14 dayı Sat 30/05/20 Fin 12/06/20 120 dayı Tun 01/32/20 Fin 12/06/20	853 days 874 O days 881,877 27 days O days 883 O days 885 27 days 886 O days 886 O days O days O days 50 days O days 0 days 90 days 0 days 90 days 0 days 90 days 0 days 90 days 0 days 90 days 0 days 90 days	884 885 887 870 87 87 87 87 87 87 895 904 899	F5 - A x 4~6 men MVAC - A x 4~6 men
Installation and SAT of Emergency Power Generator and associated work, GH Building Services Installation, GH Mechanical Ventilation System, GH Lightning Protection System, GH Testing and Commissioning of Building Services Installation, GH restain System, DOU 1, Portion B7 & B-78 (PS 69.2-6) Planned Key Date Completion Date - Stellon 1, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - biotrickling filter (DOU No. 1), C13, ref. EQ1001 Submission for acceptance of purchasing package Acceptance of conforming quotation (Completed) DOU - FiR Par inductored, C13, EQ1047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	60 days Wed 01/11/23 Sat 30/12/23 66 days Sun 31/12/23 Tue 05/03/24 20 days Sun 31/12/23 Non 23/01/24 21 days Tue 30/01/24 Mon 12/02/24 21 days Tue 30/01/24 Mon 12/02/24 21 days Tue 31/02/24 Tue 22/02/24 21 days Mon 02/12/19 Mon 01/04/24 0 days Mon 02/12/19 Mon 01/04/24 0 days Mon 02/12/19 Mon 01/04/24 405 days Mon 02/12/19 Fit 32/06/20 120 days Tue 01/12/20 Fit 32/06/20	0 days 861,877 27 days 0 days 862 0 days 864 0 days 866 0 days 27 days 866 0 days 0 days 900FF 900FF 0 days 9 days	884 885 887 870 87 87 87 87 87 87 895 904 899	F5 - A x 4~6 men MVAC - A x 4~6 men
Building Services Installation at Emergency Generator House           Fire Services Installation, GH           Mechanical Ventilition System, GH           Lightning Protection System, GH           Testing and commissioning of Building Services Installation, GH           reoderization System, DOU 1, Portion B7 & B-78 (PS 69.2.6)           Planned Key Date Completion Date - Section 1, DOU 1           Planned Sectional Completion Date - Section 2, DOU 1           Selection of Plant and Materials           DOU - blockking filter (OOU No. 1), C13, ref. EQ1001           Submission for acceptance of purchasing package           Avitation of quotations for purchasing package           DOU - Find R air dustwork, C13, EQ1047           Submission for acceptance of purchasing package           Invitation of quotations for purchasing package           Invitation of quotations for purchasing package	66 daya Sun 31/12/23         Tue 05/00/24           30 daya Sun 31/12/23         Mon 29/01/24           31 daya Sun 31/12/23         Mon 29/01/24           14 daya Tue 30/01/24         Mon 23/01/24           15 daya Tue 31/02/24         Tue 27/02/24           16 daya Tue 31/02/14         Tue 05/02/24           15 daya Tue 31/02/14         Tue 05/02/24           15 daya Tue 01/06/21         Tue 01/06/21           0 daya Tue 01/06/21         Tue 01/06/21           0 daya Mon 02/10/12         Mon 12/07/21           0 daya Mon 02/10/12         Mon 01/04/25           0 daya Mon 02/10/12         Mon 01/04/26           0 daya Mon 02/12/15         Fi 12/06/20           13 daya Mon 02/12/15         Fi 12/06/20           130 daya Si 00/05/20         Fi 12/06/20           14 daya Si 00/05/20         Fi 12/06/20           120 daya Tue 03/12/15         Fi 12/06/20           120 daya Tue 03/12/15         Fi 12/06/20           120 daya Tue 03/12/20         Fi 12/06/21           120 daya Tue 03/12/20	27 days 0 days 882 0 days 882 0 days 885 27 days 885 0 days 885 0 days 0 days 902EF,503EF 0 days 0 days 0 days 0 days 895 0 days 0 days 0 days 895 0 days 0 da	885 886 887 870F 870F 870F 895 895 904 899	F5 - A x 4~6 men MVAC - A x 4~6 men
Fire Services Installation, GH Mechanical Ventilation System, GH Lightning Protection System, GH Testing and Commissioning of Building Services Installation, GH Bearded Sectional Completion Date - KDLB, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - bioteking filter (OOU No. 1), C13, ref. EQ1001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Acceptance of conforming quotation (Completed) DOU - Find P air ductwork, C13, EQ1047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Invitation of quotations for purchasing package Invitation of quotations for purchasing package	3D days Sun 31/32/33         Mon 23/01/32           34 days Tue 30/01/24         Mon 23/01/24           35 days Tue 31/02/24         Tue 27/02/24           35 days Tue 31/02/24         Tue 05/03/24           155 days Mon 02/02/24         Tue 05/03/24           155 days Mon 02/02/24         Tue 05/03/24           0 days Mon 02/02/12         Tue 03/05/21           0 days Mon 02/12/19         Tue 03/05/21           0 days Mon 02/12/19         Tue 03/05/21           136 days Mon 02/12/19         Tue 03/05/21           0 days Mon 02/12/19         Tue 03/05/21           0 days Mon 02/12/19         Tue 30/03/21           0 days Mon 02/12/19         Tue 30/05/21           136 days Mon 02/12/19         Tue 30/05/21           136 days Mon 02/12/19         Mon 30/03/21           60 days Tue 31/01/20         Fri 12/05/20           120 days Tue 01/12/20         Mol 30/03/21           120 days Tue 01/12/20         Fri 12/05/20           120 days Tue 01/12/20         Fri 12/05/20           120 days Tue 01/12/20         Fri 12/05/21           120 days Tue 01/12/20         Fri 12/05/21           120 days Tue 01/12/20         Fri 12/05/21           120 days Tue 01/12/20         Sun 28/02/21	0 days 882 0 days 884 0 days 885 27 days 886 0 days 886 0 days 886 0 days 904 0 days 904 0 days 895 0 days 895 0 days 895 0 days 898	856 887 870FF 895 895 895 896 908 899	MVAC - A x 4°6 men
Mechanical Ventilation System, GH Lightning Protection System, GH Testing and Commissioning of Building Services Installation, GH recoderization System, DOU 1, Portion B7 & 8-70 (B7 S62-24) Planned System, DOU 1, Portion Date - Social 1, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - Hotorkking filter (DOU No. 1), C11, ref. EQT001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	14 days         Mon 12/02/22           15 days         Tue 33/02/24         Tue 22/02/24           14 days         Tue 32/02/24         Tue 22/02/24           14 days         Mon 32/02/24         Tue 05/02/24           15 days         Tue 02/02/24         Tue 05/02/24           15 days         Mon 32/12/19         Mon 05/04/24           0 days         Mon 02/12/19         Mon 02/04/24           0 days         Mon 02/04/24         Mon 02/04/24           0 days         Mon 02/04/24         Mon 02/04/24           10 days         Mon 02/13/19         Tue 03/04/24           10 days         Mon 02/13/19         Tue 03/04/24           120 days         Mon 02/13/19         Tue 03/04/26           120 days         Mon 02/13/19         Tue 03/04/26           120 days         Mon 02/13/19         Tue 03/03/26           120 days         Mon 02/13/27         Mon 03/03/26           120 days         Mon 02/13/27         Mon 03/03/26           120 days         Tue 03/12/20         Tue 03/03/26           120 days         Tue 03/12/27         Tue 03/03/26           120 days         Tue 03/12/27         Tue 03/03/21           120 days         Tue 03/12/20         Tue 13/06/20 <td>0 days 884 0 days 885 27 days 886 0 days 0 days 902FE503FE 0 days 902FE503FE 0 days 9 days 904 0 days 0 days 894 0 days 895 0 days 0 days 895</td> <td>856 887 870FF 895 895 895 896 908 899</td> <td>MVAC - A x 4°6 men</td>	0 days 884 0 days 885 27 days 886 0 days 0 days 902FE503FE 0 days 902FE503FE 0 days 9 days 904 0 days 0 days 894 0 days 895 0 days 0 days 895	856 887 870FF 895 895 895 896 908 899	MVAC - A x 4°6 men
Lightning Protection System, GH Testing and Commissioning of Building Services Installation, GH eedodrization System, DOU 1, Pertion 87 & 8-70 (PS 69.2.6) Planned Sectional Completion Date - KDIB. DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - biotrickling filter (OOU No. 1), C11, ref. EQTOOL Submission for acceptance of purchasing package Invitation of quotations for purchasing package Acceptance of conforming quotation (Completed) DOU - FB air ductwork, C11, EQTO47 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	15 dayn Tue 13/02/24         Tue 22/02/26           7 dayn Wed 28/02/24         Tue 05/03/24           1580 dayn Mon 02/12/15         Non 01/04/24           0 dayn Mon 02/12/15         Non 01/06/24           1540 dayn Mon 02/12/15         Non 01/06/24           1540 dayn Mon 02/12/15         Fil 12/06/20           120 dayn Mon 02/12/15         Fil 12/06/20           120 dayn Mon 02/12/15         Fil 12/06/20           120 dayn Mon 02/12/16         Fil 12/06/20           120 dayn Tue 03/05/20         Fil 12/06/20           120 dayn Tue 03/12/10         Fil 12/06/20	0 days 885 27 days 886 0 days 0 days 902 <i>FF</i> 503 <i>FF</i> 0 days 902 <i>FF</i> 503 <i>FF</i> 0 days 0 days 0 days 0 days 0 days 9 days 9 0 days 50 days 0 days 0 days 0 days 0 days 0 days	887 870FF 855 855 856 904 899	
Testing and Commissioning of Building Services Installation, GH eederization System, DOU 1, Portion 87 & 8-78 (PS 68-2.4) Planned Sectional Completion Date - Stellan D, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Completion Date - Section 2, DOU 1 Selection of Flant and Materials DOU - biotrickling filter (DOU No. 1), C13, ref. EQTO01 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Acceptance of conforming quotation (Completed) DOU - FR air ductwork, C13, EQT047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	7 days Wed 28/02/24 Tue 05/03/24 1593 days Mon 02/12/19 Mon 01/04/2 0 days Tue 01/66/21 Tus 02/06/21 0 days Mon 02/12/19 Mon 01/04/24 0 days Mon 02/12/19 Mon 02/04/24 485 days Mon 02/12/19 Fri 12/06/20 320 days Mon 02/12/19 Fri 12/06/20 320 days Mon 02/12/19 Fri 12/05/20 14 days 35 30/05/20 Fri 12/05/20 120 days Tue 03/05/20 Fri 12/05/20 120 days Tue 03/12/27 Bri 28/08/21 120 days Tue 03/12/27 Bri 29/05/20 120 days Tue 03/12/27 Bri 29/05/21 130 days St 30/05/21 Sun 28/02/21	27 days 886 0 days 0 days 902FF503FF 0 days 902FF503FF 0 days 0 days 0 days 0 days 0 days 0 days 994 0 days 994 0 days 994 0 days 90 days 90 days 90 days	870FF 855 856 904 899	D5 - A x 4*5 men
Testing and Commissioning of Building Services Installation, GH eederization System, DOU 1, Portion 87 & 8-78 (PS 68-2.4) Planned Sectional Completion Date - Stellan D, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Completion Date - Section 2, DOU 1 Selection of Flant and Materials DOU - biotrickling filter (DOU No. 1), C13, ref. EQTO01 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Acceptance of conforming quotation (Completed) DOU - FR air ductwork, C13, EQT047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	1583 days Mon 02/12/19 Mon 01/04/2           0 days Tue 01/06/21         Tue 01/06/21           0 days Tue 01/06/21         Tue 01/06/21           0 days Mon 02/07/21         Mon 01/04/24           0 days Mon 02/10/21         Mon 01/04/26           485 days Mon 02/10/21         Mon 01/04/26           320 days Mon 02/13/15         Fri 32/05/20           320 days Mon 02/12/19         Mon 30/03/26           60 days Tue 31/05/20         Fri 32/05/20           120 days Mon 02/12/19         Mon 30/03/26           120 days Tue 31/05/20         Fri 32/05/20           120 days Tue 31/20/27         Fri 32/05/20           120 days Tue 01/22/20         Fri 32/05/21           30 days Tue 01/22/21         Sun 28/02/21	0 days 0 days 50287,50387 0 days 50487 0 days 0 days 0 days 0 days 895 0 days 55 days 0 days	895 896 904 899	B5-A x 4*6 men
eederization System, DOU 1, Portion 07 & 0-78 (PS 69-2.6) Planned Key Date Completion Date : ND18, DOU 1 Planned Sectional Completion Date : Section 2, DOU 1 Planned Sectional Completion Date : Section 2, DOU 1 Selection of Plant and Materials DOU - bioteking filter (DOU No. 1), C13, ref. EQ1001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Acceptance of conforming quotation (Completed) DOU - Find Pair dictorord, C13, EQ1047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Invitation of quotations for purchasing package	1583 days Mon 02/12/19 Mon 01/04/2           0 days Tue 01/06/21         Tue 01/06/21           0 days Tue 01/06/21         Tue 01/06/21           0 days Mon 02/07/21         Mon 01/04/24           0 days Mon 02/10/21         Mon 01/04/26           485 days Mon 02/10/21         Mon 01/04/26           320 days Mon 02/13/15         Fri 32/05/20           320 days Mon 02/12/19         Mon 30/03/26           60 days Tue 31/05/20         Fri 32/05/20           120 days Mon 02/12/19         Mon 30/03/26           120 days Tue 31/05/20         Fri 32/05/20           120 days Tue 31/20/27         Fri 32/05/20           120 days Tue 01/22/20         Fri 32/05/21           30 days Tue 01/22/21         Sun 28/02/21	0 days 0 days 50287,50387 0 days 50487 0 days 0 days 0 days 0 days 895 0 days 55 days 0 days	896 904 899	
Planned Key Date Completion Date - KDIB, DOU 1 Planned Sectional Completion Date - Section 1, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - bioteking filter (DOU No. 1), C11, ref. EQ1001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Acceptance of conforming quotation (Completed) DOU - Find R air duxtwork, C11, EQ1047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Invitation of quotations for purchasing package	O days Tue D1/06/21 Tue D1/06/21 D days Mon 32/07/21 Mon 32/07/21 O days Mon 02/12/19 Tue 30/09/21 194 days Mon 02/12/19 Tue 30/09/21 194 days Mon 02/12/19 Mon 30/03/21 60 days Tue 31/01/20 Fri 32/05/20 14 days 54 30/05/20 Fri 12/06/20 120 days Tue 01/22/20 We 30/08/21 60 days Tue 01/22/20 We 30/08/21 30 days Tue 01/22/20 We 30/08/21	0 days 902250025 0 days 0 days 50 days 0 days 0 days 0 days 90 days	896 904 899	
Planned Sectional Completion Date - Section 1, DOU 1 Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - biorickling filter (DOU No. 1), C11, ref. FQT001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package DOU - Figh air ductwork, C11, EQT047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	0 dayı Mon 12/07/21 Mon 12/07/21 0 dayı Mon 02/04/24 Mon 02/04/24 485 dayı Mon 02/12/19 Tue 30/03/21 194 dayı Mon 02/13/19 Fri 12/06/20 104 dayı Mon 02/13/19 Fri 12/06/20 104 dayı Mon 02/13/19 Fri 12/06/20 14 dayı Sat 30/05/20 Fri 12/06/20 120 dayı Tue 03/12/20 Fri 12/06/20 100 dayı Tue 03/12/20 Fri 12/06/21 100 dayı Tue 03/12/20 Fri 12/06/21	O days 504FF O days 50 days O days O days 803 O days 805 S0 days 50 days 0 days 805	896 904 899	
Planned Sectional Completion Date - Section 2, DOU 1 Selection of Plant and Materials DOU - biotrickling filter (DOU No. 1), C11, ref. EQT001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Acceptance of conforming quotations (Completed) DOU - FRP air ductwork, C11, EQT047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Invitation of quotations for purchasing package	0 days Mon 01/04/24         Mon 01/04/24           485 days Mon 02/12/19 Tue 30/03/21           194 days Mon 02/12/19 Tue 30/03/21           194 days Mon 02/12/19 Mon 30/03/26           320 days Mon 02/12/19 Mon 30/03/26           60 days Tue 31/03/26 Fri 32/05/20           14 days Sat 30/05/20 Fri 32/05/20           120 days Tue 03/12/10 Fri 29/05/20           120 days Tue 03/12/10 Fri 29/05/20           130 days Sat 30/05/20 Fri 12/05/20           130 days Sat 30/03/21           50 days Tue 03/12/10 Fri 29/05/21	0 days 50 days 0 days 0 days 0 days 894 0 days 895 50 days 0 days 0 days 898	896 904 899	
Selection of Plant and Materials DOU - biotrickling filter (DOU No. 1), C11, ref. EQ1001 Submission for acceptance of purchasing package invitation of quotations for purchasing package Acceptance of conforming quotations (Completed) DOU - FRP air ductwork, C11, EQ1047 Submission for acceptance of purchasing package invitation of quotations for purchasing package	485 dayı Mon 62/12/19 Tue 30/03/21 194 dayı Mon 62/12/19 Firi 12/06/20 320 dayı Mon 62/12/19 Firi 12/06/20 120 dayı Mon 62/12/19 Mon 30/03/20 16 dayı Sıt 30/05/20 Firi 12/06/20 120 dayı Sıt 30/05/20 Firi 12/06/20 120 dayı Tue 01/12/20 Firi 29/01/21 30 dayı Sıt 30/01/21 Sun 28/02/21	50 days 0 days 0 days 0 days 894 0 days 895 50 days 0 days 0 days 898	896 904 899	
DOU - biotrickling filter (DOU No. 1), C11, ref. EQ1001 Submission for acceptance of purchasing package Invitation of quotations for purchasing package Acceptance of conforming quotation (Completed) DOU - FRP air ductwork, C11, EQ1047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	194 days, Mon 02/12/19         Fri 12/06/20           320 days, Mon 02/12/19         Mon 30/03/20           60 days, Tue 31/03/20         Fri 12/06/20           14 days, Sst 30/05/20         Fri 12/06/20           120 days, Tue 01/12/20         Fri 12/06/20           320 days, Tue 01/12/20         Fri 12/06/20           30 days, Tue 01/12/20         Fri 12/06/21           30 days, Sst 30/01/21         Sun 28/02/21	0 days 0 days 0 days 894 0 days 895 50 days 0 days 0 days	896 904 899	
Submission for acceptance of purchasing package Invitation of quotations for purchasing package Acceptance of conforming quotation (Completed) DOU - FRP air ductwork, C11, EQT047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	320 days, Mon 02/12/19         Mon 30/03/20           60 days, Tue 31/01/20         Fri 29/05/20           14 days, Sat 30/05/20         Fri 12/06/20           120 days, Tue 01/12/20         Tue 30/03/21           60 days, Tue 01/12/20         Fri 29/05/20           30 days, Sat 30/01/21         Sun 28/02/21	O days O days 894 O days 895 50 days O days O days O days	896 904 899	
Invitation of quotations for purchasing package Acceptance of conforming quotation (Completed) DOU - FRP air ductwork, C11, EQT047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	60 days, Tue 31/03/200         Fri 29/05/20           14 days, Sat 30/05/200         Fri 12/06/20           120 days, Tue 01/12/200         Tue 30/03/21           60 days, Tue 01/12/200         Fri 29/05/201           30 days Sat 30/03/21         Sun 28/02/21	0 days 894 0 days 895 50 days 0 days 0 days 0 days	896 904 899	
Acceptance of conforming quotation (Completed) DOU - FRP air ductwork, C11, EQT047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	14 duys Sat 30/05/20         Fri 12/06/20           120 duys Tue 01/12/20         Tue 30/03/21           60 duys Tue 01/12/20         Fri 29/01/21           30 duys Sat 30/01/21         Sun 28/02/21	0 days 895 50 days 0 days 0 days 898	904 899	
DOU - FRP air ductwork, C11, EQT047 Submission for acceptance of purchasing package Invitation of quotations for purchasing package	120 days Tue 01/12/20         Tue 30/03/21           60 days Tue 01/12/20         Fri 29/01/21           30 days Sat 30/01/21         Sun 28/02/21	50 days O days O days 898	899	
Submission for acceptance of purchasing package Invitation of quotations for purchasing package	60 days Tue 01/12/20 Fri 29/01/21 30 days Sat 30/01/21 Sun 28/02/21	0 days 0 days 898		
Invitation of quotations for purchasing package	30 days Sat 30/01/21 Sun 28/02/21	0 days 898		
			1000	
Acceptance of conforming quotation	30 days Mon 01/03/21 Tue 20/02/21		900	
	an only mon ortanier and antonier	0 days 899	904	
Design Submissions for DOU No. 1	359 days Wed 15/07/20 Thu 08/07/21	4 days		
Electrical schematic drawings for Deodorisation Systems	90 days Wed 15/07/20 Mon 12/10/20	232 days	88987	
	70 days Fri 28/08/20 Thu 05/11/20	208 days	889FF	
			907,910,890FF	
			508	
			1003 9 10	
	20 202 C			
	Second Internal Second Internation			
Shipping and Delivery of Plant to Site			rday 916	
Site Installation Work				
Tentative Civil Handover, DOU 1 (Rev. 5)	1 day Thu 19/05/22 Thu 19/05/22	0 days		08
Tentative Civil Handover Date, underground air pipework for DOU 1 (by others)	1 day Mon 01/08/22 Mon 01/08/22		916FF+45 days	
Commencement of E&M Installation at DOU 1				
Mechanical Installations for DOU 1	90 edays Fri 17/06/22 Thu 15/09/22	0 edays 914FF+45 days	,91191755+30 edays	911ME - F x 4~6 men
Electrical Installations for DOU 1	90 edays Sun 17/07/22 Sat 15/10/22	0 edays 91655+30 eday	918	
Site Acceptance Test for DOU1	30 edays Sat 15/10/22 Mon 14/11/22	0 edays 916,917	919	
System Commissioning for DOU 1	21 edays Mon 14/11/22 Mon 05/12/22	429.63 edays 918	1258	
Deodorization System, DOU 2A, Portion 8-4 (PS 68.2.6)	1583 days Mon 02/12/19 Mon 01/04/24	0 days		Carl States
	Q dars Tue 01/06/21 Tue 01/06/21	0.days		State of the lot
Planned Sectional Completion Date - Section 1, DOU 2A			1	
			-	
			937	
Acceptance of conforming quotation (Completed)	14 days 5at 30/05/20 Fri 12/06/20	0 days 927	930,951,972	
S Des P P	Tentative Civil Handover, DOU 1 (kev. 5) Tentative Civil Handover, Date, underground alr pipework for DOU 1 (ky others) Commencement of E&M Installations for DOU 1 Machanical Installations for DOU 1 Exterical Installations for DOU 1 Ste Acceptance Test for DOU 1 Ste Acceptance Test for DOU 1 Ste Acceptance Test for DOU 1 Installations for DOU 1 Ste Acceptance Test for DOU 1 Installations for DOU 2A Installations for DOU 2A Installations for Acceptance of purchasing package Installation of quocations for purchasing package Installation of conforming quotation (Completed) Installations of acceptance of purchasing package Installation of quocations for purchasing package Installation of conforming quotation (Completed) Installations of acceptance of purchasing package Installation of quocations for purchasing package Installations of acceptance of purchasing package Installations of acceptance of purchasing package Installations of acceptance of purchasing package Installation of quocations for purchasing package Installation of quocations for purchasing package Installation of quocations for purchasing package Installations of acceptance of purchasing package Installation of quocations for purchasing package Installations of acceptance of purchasing package Installations of acceptance of purchasing package Installations of quocations for purchasing package Installations of acceptance of purchasing package Installations of acceptance of purchasing package Installations of quocations for purchasing package Installations	CD5007-1 - betalled Design for Deodorisation System, DOU No. 1     100 edays The 30/03/21     The 03/05/22       Intrustaturing and Delivery of Plant & Materials     299 days The 30/03/21     The 03/05/22       DU 1     299 days The 30/03/21     The 03/05/22       Manufacturing and Factory Acceptance Test of Plant     240 days The 30/03/21     The 03/05/22       Shipping and Delivery of Plant to site     45 days sino 30/03/22     The 03/05/22       TRP Air Ductwork     299 days Tri 00/07/21     Nan 34/01/25       Shipping and Delivery of Plant to Site     45 days sino 30/03/22     The 03/05/22       TRP Air Ductwork     299 days Tri 00/07/21     Nan 34/01/25       Shipping and Delivery of Plant to Site     45 days sino 30/03/22     The 03/05/22       Is installation work     200 days Tri 00/07/21     Nan 34/01/25       Tentstive Civil Handover, DOU 1 [few. 5)     1 days The 19/05/22     Thus 19/05/22       Tentstive Civil Handover, DOU 1 [few. 5)     1 days The 03/03/22     Thus 19/05/22       Mechanical Installations for DOU 1     90 days fini 17/07/22     Set 15/10/22       Site Acceptance Test for DOU 1     90 days fini 17/07/22     Set 15/10/22       Site Acceptance Test for DOU 1     90 days Non 14/11/22     Mon 05/12/27       Site Acceptance Test for DOU 1     90 days Non 02/12/21     Mon 02/12/21       Site Acceptance Test for DOU 1     90 days Non 02	Construction     C	Construction         Construction<

	paidment		Shek Wu H	al Effluent Polishing Pl	lant - Main Works Stage	tage 1 E&M Works for Sewage Treatment Facilities
o was	Task Name	Duration Start Finish between Task	Float Time Predecessors	Successors	Resource Names	1000 1001 1001 1001 2024
929 5.25.5	Design Submissions for DOU No. 2A	Start and Finish 200 days Tue 01/09/20 Sat 20/03/21	115 days	-		инт 2006 инт 2006 инт 2007
930 5.25.5.1	CDS007-2 - Detailed Design for Deodorisation System, DOU No. 2A	200 edays Tue 01/09/20 Sat 20/03/21	0 edays 928	933,936,922FF		
931 5.25.6	Manufacturing and Delivery of Plant & Materials	345 days Sat 20/03/21 Sun 27/02/22		333,330,3cert		
932 5.25.6.1	DOU 2A	345 days Sat 20/03/21 Sun 27/02/22				
933 5.25.6.1.1	Manufacturing and Factory Acceptance Test of Plant	300 days Sat 20/03/21 Thu 13/01/22		934		
934 5.25.6.1.2	Shipping and Delivery of Plant to site	45 days Fri 14/01/22 Sun 27/02/22		941		
935 5.25.6.2	FRP Air Ductwork	345 days 5at 20/03/21 Sun 27/02/22		1.00	-	
936 5.25.6.2.1	Manufacturing and Factory Acceptance Test of Plant	300 days Sat 20/03/21 Thu 13/01/22		937		
937 5.25.6.2.2	Shipping and Delivery of Plant to site	45 days Fri 14/01/22 Sun 27/02/22		941		
938 5.25.7	Tentative Civil Handover, DOU 2A (Rev. 5)	1 day Thu 23/02/23 Thu 23/02/23				23/02
939 5.25.8	Site Installation Work	231 days Thu 23/02/23 Thu 12/10/23				
940 5.25.8.1	Commencement of E&M Installation at DOU 2A	231 days Thu 23/02/23 Thu 12/10/23			-	P DOUZA Main
41 5.25.8.1.1	Mechanical Installations for DOU 2A	90 edays Thu 23/02/23 Wed 24/05/21		942	ME - Fx 4~6 men	
942 5.25.8.1.2	Electrical Installations for DOU 2A	90 edays Wed 24/05/23 Tue 22/08/23		943	ME +FX4 B men	
				943		
943 5.25.8.1.3	Site Acceptance Test for E&M Equip for DOU 2A	30 edays Tue 22/08/23 Thu 21/09/23 21 edays Thu 21/09/23 Thu 12/10/23		1258		
45 5.25	System Commissioning Test for DOU 2A			1258		
New Contraction	Deodorization System, DOU 3A, Portion B7 & B-78 (PS 68.2.6)	1313 days Fri 28/08/20 Mon 01/04/2				KD18, D0U 3A a., 01/05
46 5.26.1	Planned Key Date Completion Date - KD18, DOU 3A	0 days Two 01/06/21 Two 01/06/21	Ridays 250EE		1. 2.12	KD36, 000 3A (0, 07/06) (0, 12/07)
47 5.26.2	Planned Sectional Completion Date - Section 1, DOU 3A	0 days Mon 12/07/21 Mon 12/07/21				@ 12/07
48 5.26.3	Planned Sectional Completion Date - Section 2, DOU 3A	0 days Mon 01/04/24 Mon 01/04/24				
49 5.26.4	Design Submissions for DOU No. 3A	234 days Fri 28/08/20 Mon 19/04/2 200 days Fri 28/08/20 Mon 15/03/21		0.4000		
	CDS081-8 - Civil and dimensional requirements drawings for DOU No. 3A			946FF		
51 5.26.4.2	CDS007-3 - Detailed Design for Deodorisation System, DOU No. 3A Manufacturing and Delivery of Plant & Materials	200 edays Thu 01/10/20 Mon 19/04/21 225 days Mon 19/04/21 Tue 30/11/21		954,957,947FF	_	
52 5.26.5						
53 5.26.5.1	DOU 3A	225 days Mon 19/04/21 Tue 30/11/21	1. C.2.102001			
54 5.26.5.1.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 19/04/21 Sat 16/10/21	0 edays 951	955		
55 5.26.5.1.2	Shipping and Delivery of Plant to Site	45 edays 5at 16/10/21 Tue 30/11/21		962		
56 5.26.5.2	FRP Air Ductwork	225 days Mon 19/04/21 Tue 30/11/21				
957 5.26.5.2.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 19/04/21 Sat 16/10/21	0 edays 951	958		
958 5.26.5.2.2	Shipping and Delivery of Plant to Site	45 edays Sat 16/10/21 Tue 30/11/21		962		
959 5.26.6	Tentative Civil Handover, DOU 3A (Rev. 5)	1 day Thu 19/05/22 Thu 19/05/22				• 19/95
960 5.26.7	Site Installation Work	171 days Tue 30/11/21 Fri 20/05/22	634 days	_		DU JA Main
961 5.26.7.1	Commencement of E&M Installation at DOU 3A	171 days Tue 30/11/21 Fri 20/05/22	634 days			
962 5.26.7.1.1	Mechanical Installations for DOU 3A	120 edays Tue 30/11/21 Wed 30/03/22			96-ME - F x 4~6 men	
963 5.26.7.1.2	Electrical Installations for DOU 3A	90 edays Thu 30/12/21 Wed 30/03/22				
964 5.26.7.1.3	Site Acceptance Test for E&M Equip for DOU 3A	30 edays Wed 30/03/22 Fri 29/04/22	0 edays 962,963	965		
965 5.26.7.1.4	System Commissioning Test for DOU 3A	21 edays Fri 29/04/22 Fri 20/05/22	629 edays 964	1258		
	Deodorization System, DOU 3B, Portion B-58 (P5 68.2.6)	1265 days Thu 15/10/20 Mon 01/04/2		diama and		- 11/08
967 5.27.1	Tentative Civil Handover Date, underground air pipework for DOU 38 (by others) (Rev. 5)	1 day Wed 17/08/22 Wed 17/08/22		982FF+30 days,9	760	
968 5.27.2	Planned Key Date Completion Date - KD18, DOU 38	0.days Tue.01/06/21 Tue.01/06/21	0 days	- and the second		
69 5.27.3	Planned Sectional Completion Date - Section 1, DOU 38	0 days Mon 12/07/21 Mon 12/07/21				€, <sup>12/07</sup>
70 5.27.4	Planned Sectional Completion Date - Section 2, DOU 38	0 days Mon 01/04/24 Mon 01/04/24				
71 5.27.5	Design Submissions for DOU No. 3B	200 days Thu 15/10/20 Mon 03/05/2:				
072 5.27.5.1	CDS007-4 - Detailed Design for Deodorisation System, DDU No. 3B	200 edays Thu 15/10/20 Mon 03/05/21		975,978,969FF		
973 5.27.6	Manufacturing and Delivery of Plant & Materials	471 days Mon 03/05/21 Wed 17/08/2				
74 5.27.6.1	DOU 38	471 days Mon 03/05/21 Wed 17/08/2:				
75 5.27.6.1.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 03/05/21 Sat 30/10/21	231 edays 972	976		
76 5.27.6.1.2	Shipping and Delivery of Plant to Site	60 edays 5at 18/06/22 Wed 17/08/22		eday982		
77 5.27.6.2	FRP Air Ductwork	456 days Mon 03/05/21 Tue 02/08/22				
78 5.27.6.2.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 03/05/21 Sat 30/10/21	231 edays 972	979		
79 5.27,6.2.2	Shipping and Delivery of Plant to Site	45 edays Sat 18/06/22 Tue 02/08/22		eday 982		
80 5.27.7	Site Installation Work	171 days Wed 17/08/22 Sat 06/02/23		_		
81 5.27.7.1	Commencement of E&M Installation at DOU 38	171 days Wed 17/08/22 Sat 04/02/23				- DOU 28. Main
82 5.27.7.1.1	Mechanical Installations for DOU 38	120 edays Wed 17/08/22 Thu 15/12/22	0 edays 967FF+30 days	10	98 ME - F x 4~6 men	
83 5.27.7.1.2	Electrical Installations for DOU 38	90 edays Fri 16/09/22 Thu 15/12/22	0 edays 98255+30 eda			
984 5.27.7.1.3	Site Acceptance Test for E&M Equip for DOU 3B	30 edays Thu 15/12/22 Sat 14/01/23	0 edays 982, 983	985		
985 5.27.7.1.4	System Commissioning Test for DOU 38	21 edays 5at 14/01/23 5at 04/02/23	369 edays 984	1258		
986 5.28	Flowmeter and Valve Chambers, Portion 87 & B-7B (PS 68.2.13)	1278 days Sun 01/11/20 Wed 01/05/2	0 days			
tas		e Critical Split	Manual Pr	open -	- Allestone (Actual) 🔹	*
DE/2018/04	estone, Testative 🜒 Summary 🚺 Oi	tical Propress	Slack Office		- Sixt -	

	rzinage Services De					Shek Wu Hu	il Effluent Polishing Pla	oosed Work Programme l ant - Main Works Stage 1	E&M Works for Sewage Treatmen									AEC
ID.	WBS	Fask Name	Ouration Sta between Task	art fini	in r	loat Time Predecessors	Successors	Resource Names	2020 Hult 1, 2020 N J M M M	Lister 2 2020	2021	10007 3 2021	2022	Inut 2, 2022	2023	Hull 2, 2021	2024	
17 91	87 5.28.1	Planned Key Date Completion Date - KD18, Chambers	Start and Finish	10 01/06/21 Tur	+ 01/06/21	0.days 992FF			N J M M	1 5	KD10, Char	M S S S S S S S S S S S S S S S S S S S	N 1 M	M J J	IN THE	1 M TOT	ALA LAT	M
1	988 5.28.2	Planned Sectional Completion Date - Section 1, Chambers		Ion 12/07/21 Me		0 days 993FF						a, 12/07						
10	389 5.28.3	Planned Sectional Completion Date - Section 2, Chambers		Ion 01/04/24 Me		0 days												
1.2.1	990 5.28.4	Planned Sectional Completion Date - Section 2, chambers		ed 01/05/24 We		0 days												
	991 5.28.5	Design Submissions for Valve and Flowmeter Chambers		an 01/11/20 Sat		44 days												
0.02	992.5.28.5.1	CD5081-9 - Civil and dimensional requirements drawings for Valve and Flowmeter Chambé		lon 01/03/21 Sat			987FF											
2.12				ALCONTRACT OF		3 days												
	9935.28.5.2	CDS018 - Detailed Design for Flowmeter and Valve Chambers	C. S. S.	an 01/11/20 Sat		0 edays	995,988FF				-							
	994 5.28.6	Manufacturing and Delivery of Flant & Materials		at 30/01/21 Sat		734 days					111							
95 9	995 5.28.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sal	at 30/01/21 We	ed 28/07/21	0 days 993	996											
6 9	996 5.28.6.2	Shipping and Delivery of Plant to Site	45 days Th	nu 29/07/21 Sat	11/09/21	0 days 995	1000					1						
97 9	997 5.28.7	Tentative Civil Handover, Chambers (Rev. 5)	1 day Th	w 19/05/22 The	v 19/05/22	0 days								e 19/05				
8 9	998 5.28.8	Site Installation Work	150 days Su	an 12/09/21 Tur	e 08/02/22	734 days						-						
9 9	999 5.28.8.1	Commencement of Valves and Flowmeters Installation at Chambers	150 days Su	an 12/09/21 Tur	e 08/02/22	734 days	The second second					-	Chambe	Main				
00 10	000 5.28.8.1.1	Installation of valves and flowmeters	90 days Su	m 12/09/21 Fri	10/12/21	0 days 996	1001	ME - Cx 4*6 men				-						
01 10	001.5.28.8.1.2	cables laying and terminations	60 days Sat	et 11/12/21 Tur	e 08/02/22	729 days 1000	1258	EE - Ax 4~6 men					+					
10	002.5.29	Underground Pipework, Modification and Connection Works, Portion B-98 (P5 68.2.22)		on 01/03/21 Sat		0 days					-							_
	003 5.29.1	Planned Key Date Completion Date - KD18, UU		an 01/06/21 Tur		0 days 1007FF					KD18	UU						
	004 5.29.2					0 days 1008FF		1				<b>a</b> 12/07						
		Planned Sectional Completion Date - Section 1, Underground Planned Sectional		ion 12/07/21 Mg								-						
	005 5.29.3	Planned Sectional Completion Date - Section 4, Underground Pipework		ed 01/05/24 We		0 days 1018FF												
	006 5.29.4	Design Submissions		on 01/03/21 Su		3 days												
7 10	007 5.29.4.1	CDS015 - Detailed Design for Underground Pipework Modification and Connection with the existing Bioreactor 1, 3 & 4 (Rev. 8)	90 edays Mo	on 01/03/21 Sur	n 30/05/21	2.38 edays	1003FF											
8 10	008 5.29.4.2	CDS016 - Detailed Design for Temporary Pumping System for maintaining the existing bioreactors 1, 3 and 4 operation (Rev. 8)	50 edays Mo	on 01/03/21 Tu	e 20/04/21	O edays	1010,1004FF											
	009 5.29.5	Manufacturing and Delivery of Plant & Materials	1079 days Tu	ae 20/04/21 Tu	e 02/04/24	16 days										_		-
0 10	0105.29.5.1	Manufacturing and Factory Acceptance Test of Plant	180 days Tu	ae 20/04/21 Sat	16/10/21	854 days 1008	1011					*						
1 10	5.29.5.2	Shipping and Delivery of Plant to Site	45 days Su	an 18/02/24 Tu	e 02/04/24	16 days 1010,101255-6	0 ec 1016											-
2 10	912 5.29.6	Tentative Civil Handover, Road (Rev. 5)	1 day Th	au 18/04/24 The	u 18/04/24	0 days	101155-60 edays,	10										-
13 10	013 5.29.7	Site Installation	16 days Fri	1 19/04/24 Sat	04/05/24	0 days	The second s											1.28
14 10	0145.29.7.1	Commencement of underground pipework modification and connection works	16 days Fri	19/04/24 Sat	04/05/24	0 days	1000											- 36
15 10	015 5.29.7.1.1	Temporary Flow Diversion and Road Excavation Work	3 days Fri	19/04/24 Sur	n 21/04/24	0 days 1012	1016	1										
100	016 5.29.7.1.2	Pipe Laying and connection works		ion 22/04/24 Sur		0 days 1015,1011	1017											10
	017 5.29.7.1.3	Pressure Tests		ion 29/04/24 We		0 days 1016	1018											
						0 days 1017	1005FF			1 A A								
_	018 5.29.7.1.4	Make Good		nu 02/05/24 Sat			100334											
	019 5.30	Temporary Filtrate Lifting Well and Eq. Tank, Portion B-3B (PS 68.2.16)		lon 02/03/20 Tu		99 days												
	020 5.30.1	Selection of Suppliers for major plant and materials and Civil Subcontractor for Temporary		on 02/03/20 Sur		0 days												
	021 5.30.1.1	Mis - filtrate lift pumps and filtrate transfer pumps, C11, ref. EQT011	1	on 02/03/20 We		0 days						1						
10	022 5.30.1.1.1	Submission for acceptance of purchasing package	29 days Mo	lon 02/03/20 Ma	on 30/03/20	0 days	1023		-									
23 10	023 5.30.1.1.2	Invitation of quotations for purchasing package	30 days Tu	ae 31/03/20 We	ed 29/04/20	0 days 1022	1024											
10	024 5.30.1.1.3	Acceptance of conforming quotation and acceptance for Manufacture (Completed)	14 days Th	nu 30/04/20 We	ed 13/05/26	0 days 1023	1043,1046		*									
25 10	025 5.30.1.2	Mis - Instrumentations	73 days Me	on 02/03/20 We	ed 13/05/24	0 days	1											
26 10	026 5.30.1.2.1	Submission for acceptance of purchasing package	29 days Mo	ion 02/03/20 Mo	an 30/03/20	0 days	1027											
	027 5.30.1.2.2	Invitation of quotations for purchasing package		e 31/03/20 We		0 days 1026	1028		±									
	028 5.30.1.2.3	Acceptance of conforming quotation and acceptance for Manufacture (Completed)		nu 30/04/20 We		0 days 1027	1043,1049		<u></u>									
_	029 5.30.1.3	Mis - Pipework (To be provided by Mechanical Sub-Contactor)		on 03/08/20 Sur		0 days												
	030 5.30.1.3.1	Submission for acceptance of purchasing package		on 03/08/20 Sur		0 days	1031											
										111								
	031 5.30.1.3.2	Invitation of quotations for purchasing package		Ion 10/08/20 Sur		0 days 1030	1032											
2.12	032 5.30.1.3.3	Acceptance of conforming quotation and acceptance for Manufacture (Completed)		ion 24/08/20 Sur		0 days 1031	1043,1052			T								
1.5	033 5.30.1.4	Mis - Valve (To be provided by Mechanical Sub-Contractor)		lon 03/08/20 Sur		0 days												
111	0345.30.1.4.1	Submission for acceptance of purchasing package		lon 03/08/20 Sur		0 days	1035			1								
35 10	035 5.30.1.4.2	Invitation of quotations for purchasing package		lon 10/08/20 Sur		0 days 1034	1036			-								
36 10	0365.30.1.4.3	Acceptance of conforming quotation and acceptance for Manufacture (Completed)	21 days Mo	lon 24/08/20 Sur	n 13/09/20	0 days 1035	1043,1055			*								
17 10	037 5.30.1.5	Civil Work Subletting Package (Repeated WBS 5.13.17)	19 days Tu	ue 14/07/20 Sat	03/08/20	0 days												
38 10	038 5.30.1.5.1	Submission for acceptance of subletting package	3 days Tu	ae 14/07/20 The	u 16/07/20	0 days	1039			1								
	039 5.30.1.5.2	Invitation of tender for subletting package	14 days Fri	i 17/07/20 The	u 30/07/20	0 days 1038	1040			4								
_	040 5.30.1.5.3	Acceptance of conforming quotation and acceptance for Manufacture		131/07/20 Sat		0 days 1039	1046,1049,1052,1	10		+								
	041 5.30.2	Design Submissions for Temporary Filtrate Lifting Well and Eq. Tank		ue 01/09/20 Sur		0 days												
			100000000	2.50007012	1000		1021			Ţ								
~ 10	042 5.30.2.1	CDS050-5 - Detailed Design for Lifting Appliances - Temp. Filtrate Eq. System, Existing Slud	30 edays Tu	ae 01/09/20 The	0.01110150	O edays 113	1071											_
-			_							-10-cV/fi-	- ANALA	- 44 -		100	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			_
0	<b>*</b> 10			08		····· Nanual Pro		- Milettone (Actual) *										
Jack F	DE/2018/04	Settone, Tentalive 🗣 Summary Manual Summary I Olife	647	Pro	gress	Slack (Float		- Sida -										
	u 25/03/21																	

10	WBS						and there are a surger	E&M Works for Sewage Treatment Facilities
-		ask Name.	Duration Start Finish between Task	Float Time		Successors	Resource Names	
		Red Article Constant and Article Characteristics	Start and Finish	0(22)				2000 2023 2023 2024 2025 2025
_	3 5.30.2.2	Design submission for E&M Installation works for temp. filtrate eq. system	21 days Mon 14/09/20 Sun 04/1			2,1(1045,1051,1048,)	30	
	\$ 5.30.3	Manufacturing and Delivery of Plant & Materials	165 days Mon 05/10/20 Thu 18/0		days			
100	5 5.30.3.1	Filtrate Lift Pumps and Filtrate Transfer Pump, EQT011	165 days Mon 05/10/20 Thu 18/0		days 1043			
	5.30.3.1.1	Manufacturing and Factory Acceptance Test of Plant	120 days Mon 05/10/20 Mon 01/		days 1040, 1024	1047		
1.625	7 5.30.3.1.2	Shipping and Delivery of Plant to site (Delivered)	45 days Tue 02/02/21 Thu 18/0		days 1046	1076		
10.00	5.30.3.2	Instrumentations	165 days Mon 05/10/20 Thu 18/0		days 1043			
2010/02/02	9 5.30.3.2.1	Manufacturing and Factory Acceptance Test of Plant	120 days Mon 05/10/20 Mon 01/		days 1040,1028	1050		
	5.30,3.2.2	Shipping and Delivery of Plant to site	45 days Tue 02/02/21 Thu 18/0	3/21 0	days 1049	1077		
	1 5.30.3.3	Pipework	165 days Mon 05/10/20 Thu 18/0	3/21 2	days 1043			
	2 5.30.3.3,1	Manufacturing and Factory Acceptance Test of Plant	120 days Mon 05/10/20 Mon 01/	02/23 0	days 1040,1032	1053		
53 105	3 5.30.3.3.2	Shipping and Delivery of Plant to site	45 days Tue 02/02/21 Thu 18/0	3/21 0	days 1052	1075		
54 105	\$.30.3.4	Valve	165 days Mon 05/10/20 Thu 18/0	3/21 2	days 1043			
105	5.30.3.4.1	Manufacturing and Factory Acceptance Test of Plant	120 days Mon 05/10/20 Mon 01/	02/21 0	days 1040,1036	1056		
056 105 <sup>e</sup>	5 5.30.3.4.2	Shipping and Delivery of Plant to site	45 days Tue 02/02/21 Thu 18/0	3/21 0	days 1055	1075	-	
57 1057	7 5.30.4	Site Installation Work	297 days Sat 01/08/20 Tue 25/0	5/21 99	days			
58 105	5.30.4.1	Commencement of Civil Construction and E&M Installation at Temp. Filtrate Lifting Well	297 days Sat 01/08/20 Tue 25/0	5/21 991	days	-	di seconda	
<u></u>	5.30.4.1.1	Civil Construction Work	297 days Sat 01/08/20 Tue 25/0		days	1		
101000	5.30.4.1.1.1	Civil on-site survey and report submission for acceptance	5 edays Sat 01/08/20 Thu 06/0		days 1040	1061,1062		
	5.30.4.1.1.2	Civil structural design and drawing submission for acceptance	30 days Fri 07/08/20 Sat 05/0		days 1060	1063		
_	5.30.4.1.1.3	Site Clearance, UU diversion and construction of U-channel	21 days Fri 07/08/20 Thu 27/0		days 1060	1063		
	5.30.4.1.1.3		60 days Sun 05/09/20 Wed 04/		days 1060	1063		
_		ELS (Sheeting and Excavation)						
	5.30.4.1.1.5	Grouting Works	60 days Thu 05/11/20 Sun 03/0		days 1063	1065		
- 200	5.30.4.1.1.6	RC structure works including cast-in items	60 days Mon 04/01/21 Thu 04/0		days 1064	1074,1071,1065		
(1)	5.30.4.1.1.7	Removal Formwork and Flasework	8 days Fri 05/03/21 Fri 12/03		days 1065	1071,1072,1075,1	10	
11 BBB	5.30.4.1.1.8	Waterproofing	14 days Sat 13/03/21 Fri 26/03		days 1066	1068		
58 1067	5.30,4.1.1.9	Other architectual works and finishing works	60 days Sat 27/03/21 Tue 25/0	5/21 99	daya 1067	1085FF		
99 106	5.30.4.1.2	E&M Installation Work	34 days Sat 13/03/21 Thu 15/0	4/21 8	days			
70 1070	5.30.4.1.2.1	Installation of Lifting Appliances at Temporary Filtrate Lifting Well and Eq. Tank	10 days Sat 13/03/21 Mon 22/	03/2: 40	day s			
71 107	5.30.4.1.2.1.1	GF MR LA-09-01 SWL 1t	7 days Sat 13/03/21 Fri 19/03	/21 0	days 1065, 1042, 106	5 1073	LA - A x 4"6 men	
72 107	\$30,4.1.2.1.2	GF MR 1A-09-02 5WL 1t	7 days Sat 13/03/21 Fri 19/03	/21 0	days 1066	1073	LA - A x 4"6 men	
73 107	5.30.4.1.2.1.3	Site Acceptance test and loading test of LA	3 days Sat 20/03/21 Mon 22/	3/21 40	days 1071,1072	1108FF	LA - A x 4"6 men	
74 107	5.30.4.1.2.2	Mechanical Installations for Temp. Filtrate Lifting Well and Eq. Tank	21 days Fri 19/03/21 Thu 08/0	4/21 20	fays 1065	1078FS-30 days		
75 107	5 30.4.1.2.2.1	Installation of pipework, chemical pipework and valves, EQT036	14 days Fri 19/03/21 Thu 01/0	4/21 0	days 1066,1053,105	5 1076	ME - A x 4~6 men	
176 107	5.30.4.1.2.2.2	Installation of pumps	7 days Fri 02/04/21 Thu 08/0	4/21 0	days 1075,1047	1080	ME - Ax 4~6 men	
177 107	5.30.4.1.2.2.3	Installation of Instrumentations, EQT035-3	7 days Fri 19/03/21 Thu 25/0	3/21 14	days 1066,1050	1080	ME - Ax 4*6 men	
78 107	5.30.4.1.2.3	Electrical Installations for Temp. Filtrate Lifting Well and Eq. Tank	34 days Sat 13/03/21 Thu 15/0		fays 1074FS-30 days		A MARKED STREET OF COMPANY	
2.1.1	5.30.4.1.2.3.1	Installation of cable trays and cable containments	21 days Sat 13/03/21 Fri 02/04		days 1066	1080		
253 2253	5.30.4.1.2.3.2	Cables laying and terminations	7 days fri 09/04/21 Thu 15/0		days 1079,1076,107			
2.1	5.30.4.1.3	Site Acceptance Test for E&M Equip at Filtrate Lifting Well and Eq. Tank	7 days Fri 16/04/21 Thu 22/0		fays 1080	1082		
	5.30.4.1.4		7 days Fri 23/04/21 Thu 29/0		fays 1081	1108FF		
-		System Commissioning for E&M Equip at Temp. Filtrate Lifting Well and Eq. Tank						
1083 1083		Existing PST No. 4 and No. 6, Portion B-3A (PS 6B.2.15)	397 days Sat 01/08/20 Wed 01/		fays			KD38, Ext. 957466 (6,07/06
1084		Planned Key Date Completion Date - KD3B	9 days Mon 97/95/21 Mon 07/		fays 1143FF			
85 1085		Planned Sectional Completion Date - Section 3, PST No. 4 and No. 6	0 days Wed 01/09/21 Wed 01/		days 1068FF,1169FF			a 01/09
1086		Selection of Suppliers for major plant and materials and Subcontractor for PST No. 4 and N	and the second se		đays	-		
1.1	7 5.31.3.1	Mis - Rotating Bridge Scrapers and associated materials, C11, ref. EQT037-1	42 days Sat 01/08/20 Fri 11/05		tays			
16 323	8 5.31.3.1.1	Submission for acceptance of purchasing package	7 days Sat 01/08/20 Fri 07/08		days	1089		
200.000	95.31.3.1.2	Invitation of quotations for purchasing package	14 days 5at 08/08/20 Fri 21/08		days 1088	1090		
90 1090	5.31.3.1.3	Acceptance of conforming quotation (Completed)	21 days Sat 22/08/20 Fri 11/09		days 1089	1100		
91 109	1 5.31.3.2	Mis - Pipework, C11, ref. EQT037-2	42 days Sat 01/08/20 Fri 11/09	/20 01	ŝays			
92 109	2 5.31.3.2.1	Submission for acceptance of purchasing package	7 days Sat 01/08/20 Fri 07/08	/20 00	đays	1093		
93 109	3 5.31.3.2.2	Invitation of quotations for purchasing package	14 days Sat 08/08/20 Fri 21/08	/20 00	days 1092	1094		
94 109	45.31.3.2.3	Acceptance of conforming quotation (Completed)	21 days Sat 22/08/20 Fri 11/09	/20 0	days 1093	1100		
95 109	5 5.31.3.3	Subletting of Electrical and Mechanical Installation Work w/ supply of LCP	81 days Sat 26/09/20 Tue 15/1	2/20 0 0	Aays			
96 109	55.31.3.3.1	Submission for Subletting Package	30 days Sat 26/09/20 Sun 25/1		days 1100	1097		
	75.31.3.3.2	Invitation to tender	21 days Mon 26/10/20 Sun 15/1		days 1096	1098		
	85.31.3.3.3	Acceptance of conforming tender (Completed)	30 days Mon 16/11/20 Tue 15/1		fays 1097	1115		
099 109		Design Submissions	14 days Sat 12/09/20 Fri 25/05		days 1000			
CC. 1036	95.31.4	Design Submissions Design submissions for retrofitting the existing PST No. 4 and No. 6	14 days Sat 12/09/20 Fri 25/09			1103 1106 1005		
	1.9.12.4	weating is and no. e	14 cars sec 12/09/20 PH 25/09	0	days 1090,1094	1103,1106,1095	_	

	spartment					e 1 EduM Works for Sewage Treatment Facilities
KD W85	Task Name	Duration Start Finish between Task	Float Time Predecessors	Successors	Resource Names	2002         2011         2022         2023         2024         2025         2026 <th< th=""></th<>
1101 5.31.5	Manufacturing and Delivery of Plant & Materials	Start and Finish 195 days Sat 26/09/20 Thu 08/04/2	1 23 days	-		
1102 5.31.5.1	Rotating Bridge Scrapers and associated materials	195 days Sat 26/09/20 Thu 08/04/2	1 23 days			
1103 5.31.5.1.1	Manufacturing and Factory Acceptance Test of Plant	150 days Sat 26/09/20 Mon 22/02/		1104		
1104 5.31.5.1.2	Shipping and Delivery of Plant to site (Rev. 8)	45 days Tue 23/02/21 Thu 08/04/2		1121,1135		
1105 5.31.5.2	Pipework	120 days 5at 26/09/20 5at 23/01/2	71 days	- PARTON CO		
1106 5.31.5.2.1	Manufacturing and Factory Acceptance Test of Plant	90 days Sat 26/09/20 Thu 24/12/2		1107		
1107 5.31.5.2.2	Shipping and Delivery of Plant to site	30 days Fri 25/12/20 5at 23/01/2		1116		
1108 5.31.6	Tentative Civil Handover, Filtrate Lifting Well and Eq. Tank (Completion of work)	1 day 5at 01/05/21 Sat 01/05/2		1130,1132,1134	2	et at vis
1109 5.31.7	Site Installation Work	252 days Thu 01/10/20 Wed 09/06/				
1110 5.31.7.1	Commencement of retrofitting the existing PST No. 4 and No. 6	252 days Thu 01/10/20 Wed 05/06		1	1	
1111 5.31.7.1.1	Temporary flow diversion of Filtrate from PST No. 4,	1 day Thu 01/10/20 Thu 01/10/2		1112		
1111 5.31.7.1.1		60 days fri 02/10/20 Mon 30/11/		1113		
a sest filled Steam I filler	Dismantle and Removal of ERM Equipment at PSY No. 6 (Completed)					
1113 5.31.7.1.3	Temporary flow diversion of Filtrate from PST No. 6 (Completed)	7 days Tue 01/12/20 Mon 07/12/		1114		
1114 5.31.7.1.4	Dismantle and Removal of E&M Equipment at PST No. 4 (Rev. 8)	119 days Tue 08/12/20 Mon 05/04/		1116		
1115 5.31.7.1.5	Mechanical Installations of existing PSTs No. 4	56 days Tue 06/04/21 Mon 31/05/				
1116 5.31.7.1.5.1	Installation of PST influent feed pipe	5 days Tue 06/04/21 Sat 10/04/2		1117	ME - A x 4~6 men	
1117 5.31.7.1.5.2	Installation of circular baffle diffuser box	5 days Sun 11/04/21 Thu 15/04/2		1118	ME - A x 4~6 men	
1118 5.31.7.1.5.3	Installation of scum baffle plates	5 days Fri 16/04/21 Tue 20/04/2		1119	ME - A x 4~6 men	
1119 5.31.7.1.5.4	Installation of scum box with collection valve and pipework	5 days Wed 21/04/21 Sun 25/04/2		1120	ME - A x 4~6 men	
1120 5.31.7.1.5.5	Installation of v-notched weir plate	7 days Mon 26/04/21 Sun 02/05/2	1 0 days 1119	1121	ME - A x 4~5 men	
1121 5.31.7.1.5.6	Installation of center bearing and slip ring assembly for rotating bridge	5 days Mon 03/05/21 Fri 07/05/21	0 days 1120,1104	1122	ME - A x 4~6 men	
1122 5.31.7.1.5.7	Installation of motor and gearbox assembly for rotating bridge	5 days Sat 08/05/21 Wed 12/05/	11 0 days 1121	1123	ME - A x 4~6 men	
1123 5.31.7.1.5.8	Installation of rotating bridge sludge and scurn scraper assembly	5 days Thu 13/05/21 Mon 17/05/	21 0 days 1122	1124,1126	ME - A x 4~6 men	
1124 5.31.7.1.5.9	installation of removable FRP covers for effluent channel	14 days Tue 18/05/21 Mon 31/05/	1 0 days 1123	1128	ME - A x 4~6 men	
1125 5.31.7.1.6	Electrical Installations of existing PSTs No. 4	10 days Tue 18/05/21 Thu 27/05/	1 3 days	1128		
1126 5.31.7.1.6.1	Installation of local control panels	5 days Tue 18/05/21 Sat 22/05/2	0 days 1123	1127	-	
1127 5.31.7.1.6.2	cable laying and terminations	5 days Sun 23/05/21 Thu 27/05/2	1 3 days 1126	1128		
1128 5.31.7.1.7	Site Acceptance Test for E&M Equip at existing PST No. 4	5 days Tue 01/06/21 Sat 05/06/2		1143,1130		
1129 5.31.7.1.8	Mechanical Installations of existing PSTs No. 6	39 days Sun 02/05/21 Wed 09/06/				
11305.31.7.1.8.1	Installation of PST influent feed pipe	2 days Sun 06/06/21 Mon 07/06/		1131	ME - A x 4~6 men	
1131 5.31.7.1.8.2	Installation of circular baffle diffuser box	2 days Tue 08/06/21 Wed 09/06/			ME - A x 4~6 men	
1132 5.31.7.1.8.3	Installation of scum baffle plates	2 days Sun 02/05/21 Mon 03/05/		1133	ME - Ax 4~6 men	
1133 5.31.7.1.8.4		2 days Tue 04/05/21 Wed 05/05/			ME - A x 4~6 men	
1134 5.31.7.1.8.5		10 days Sun 02/05/21 Tue 11/05/2		1135	ME - A x 4~6 men	
1135 5.31.7.1.8.5	Installation of v-notched weir plate	3 days Wed 12/05/21 Fri 14/05/21		1136	ME - Ax 4~6 men	
	Installation of center bearing and slip ring assembly for rotating bridge			1137,1140	ME-Ax4~6 men	
1136 5.31.7.1.8.7	Installation of motor and gearbox assembly for rotating bridge	2 days Sat 15/05/21 Sun 16/05/2				
1137 5.31.7.1.8.8	Installation of rotating bridge sludge and scum scraper assembly	3 days Mon 17/05/21 Wed 19/05/		1138	ME-Ax4~6 men	
1138 5.31.7.1.8.9	installation of removable FRP covers for effluent channel	14 days Thu 20/05/21 Wed 02/06/		1142	ME - A x 4~6 men	
1139 5.31.7.1.9	Electrical Installations of existing PSTs No. 6	7 days Mon 17/05/21 Sun 23/05/		1142		
1140 5.31.7.1.9.1	Installation of local control panels	5 days Mon 17/05/21 Fri 21/05/2		1141		
1141 5.31.7.1.9.2	cable laying and terminations	2 days 5at 22/05/21 Sun 23/05/2		1142		
1142 5.31.7.1.10	Site Acceptance Test for E&M Equip at existing PST No. 6	1 day Thu 03/06/21 Thu 03/06/				
1143 5.31.7.1.11	System Commissioning for E&M Equip at existing PST No. 4 and No. 6	3 days Sun 06/06/21 Tue 08/06/		1084FF		
1144 5.32	Existing Main Power House Electrical, Portion B-7A and B-7B (P5 68.3.17)	42 days Thu 11/06/20 Wed 22/07/	28 O days			
1145 5.32.1	Planned Key Date Completion Date - KD3A	Q days Wed 22/07/20 Wed 22/07/				K03A, Ext PH & 22/07
1146 5.32.2	Design Submissions for Existing Emergency Generator House	15 days Fri 12/06/20 Fri 26/06/2	0 days			1 * 11 1 1 1 1 1
1147 5.32.2.1	Design submissions for E&M installation works of existing power house	15 days Fri 12/06/20 Fri 26/06/20	0 days 179	1151		
1148 5.32.3	Site Installation Work	39 days Thu 11/06/20 Sun 19/07/	0 0 days			
1149 5.32.3.1	Tentative Civil Handover Date, Portion 8-7A & 7B area for modification of existing emerge	1 day Thu 11/06/20 Thu 11/06/3	0 0 days			e 1/96
1150 5.32.3.2	Commencement of Modification of existing emergency generator Electrical Works	23 days Sat 27/06/20 Sun 19/07/	o O days			
1151 5.32.3.2.1	Site survey and preparation work	1 day Sat 27/06/20 Sat 27/06/2	0 days 1147	1152		
1152 5.32.3.2.2	Modification of existing emergency generator electrical works	3 days Sun 28/06/20 Tue 30/06/2	0 0 days 1151	1153	-	
1153 5.32 3.2.3	Test the new switchboard for on-site mobile generator	2 days Wed 01/07/20 Thu 02/07/2	0 0 days 1152	1154		
11545.32.3.2.4	Dismantling and removal the existing power & control cables	14 days Fri 03/07/20 Thu 16/07/2		1155		
5 1155 5.32.3.2.5	Take down existing generator to DSD (Completed)	3 days Fri 17/07/20 Sun 19/07/2			-	
1156 5.33	Existing Sludge Press House, Portion B-10 (P5 6B.2.11)	425 days Wed 01/07/20 Sun 29/08/				
- and a state	Planned Key Date Completion Date - KD3B	0 days Mon 07/05/21 Mon 07/05				K¢38, Ext 51/H 🖕 07/706
11575 22 1	ENTERING AND COMPLETING MALE TAXAB			and the second second	N	
1157 5.33.1 1158 5.33.2	Selection of Suppliers for major plant and materials for Filter Presses	52 days Wed 01/07/20 Fel 21/08/2				

-	Irainage Services D	permit to			Hui Efflamt Polishing Pla	osed Work Programm ant - Main Works Stag
M	o was	Task Name	Duration Start Finish Detween Task Start and Finish	Float Time Predecessors	Successors	Resource Names
9 1	1159 5.33.2.1	Mis - new replacement filter plates and provision of filter cloths, C11, ref. EQT038	Start and Finish 52 days Wed 01/07/20 Fri 21/08/2	0 O days		
10	160 5.33.2.1.1	Submission for acceptance of purchasing package	21 days Wed 01/07/20 Tue 21/07/2	0 O days	1161	
61 ]	161 5.33.2.1.2	Invitation of quotations for purchasing package	10 days Wed 22/07/20 Fri 31/07/20	0 days 1160	1162	
62 1	162 5.33.2.1.3	Acceptance of conforming quotation (Completed)	21 days Sat 01/08/20 Fri 21/08/20	0 0 days 1161	1163	
	163 5.33.3	Design submission for replacement of filter plates	7 edays Fri 21/08/20 Fri 28/08/2	0 0 edays 1162	1165	
	1164 5.33.4	Manufacturing and Delivery of Plant & Materials	345 days 5at 29/08/20 Sun 08/08/	21 3 days		
	1165 5.33.4.1	Manufacturing and Factory Acceptance Test of Plant	300 days Sat 29/08/20 Thu 24/06/2	1 0 days 1163	1166	1000000
65	166 5.33.4.2	Shipping and Delivery of Plant to site	45 days Fri 25/06/21 Sun 08/08/3	1 0 days 1165	1169	
67 1	1167 5.33.5	Site Installation Work	21 days Mon 09/08/21 Sun 29/08/	21 3 days		
68	1168 5.33.5.1	Commencement of replacement of filter plates	21 days Mon 09/08/21 Sun 29/08/	21 3 days		
	169 5.33.5.1.1	Replacement of filter plates	21 days Mon 09/08/21 Sun 29/08/2	1 3 days 1166	1085FF	1
· •	170 5.34	Fire Services Installation (PS 68.6.9)	1248 days Tue 01/12/20 Wed 01/05	2 O days		
- 1	171 5.34.1	Planned Key Date Completion Date - KD18, Fire	0 days Tue 01/06/21 Tue 01/05/			
	1172 5.34.2	Planned Sectional Completion Date - Section 1, FSI	0 days Mon 12/07/21 Mon 12/07/			
- 1	1173 5.34.3		0 days Wed 01/05/24 Wed 01/05/			
- 1	CONTRACTOR OF THE OWNER OWNE	Planned Sectional Completion Date - Section 4, FSI				
	1174 5.34.4	Design Submissions for FSI	334 days Tue 01/12/20 Sat 30/10/2		117107	
8 B	1175 5.34,4.1	CDS081-11 - Civil and dimensional requirements drawings for Fire Services Sprinkler Pump			1171FF	
202	1176 5.34.4.2	CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkier etc.	180 edays Mon 03/05/21 Sat 30/10/2		1180,1177,1172F	*
	1177 5.34.5	DG Stores Submissions to FSD for approval	120 days Sun 31/10/21 Sun 27/02/3		1186FF	
- P	1178 5.34.6	Site Installation Work	910 days Sun 31/10/21 Sat 27/04/2			
	1179 5.34.6.1	Commencement of Fire Services Installation	910 days Sun 31/10/21 Set 27/04/2			
- 1	1180 5.34.6.1.1	Design Review of Approved General Building Plan	126 days Sun 31/10/21 Sat 05/03/2		1181	
81	1181 5.34.6.1.2	Submission of WWO542 for WSD's approval	270 days Sun 06/03/22 Wed 30/11/		1182	
82	1182 5.34.6.1.3	Submission of WWO46 for WSD's Inspection	30 days Sat 07/10/23 Sun 05/11/3	0 days 1181,353,485	2,593,1183	
- 1	1183 5.34.6.1.4	Obtain WWO46 Part V	60 days Mon 06/13/23 Thu 04/01/2		1186,1184	
84	1184 5.34.6.1.5	FSD Inspection and Approval for MVAC	21 days Fri 05/01/24 Thu 25/01/3	0 days 1194,1195,11	183 1187	
185	1185 5.34.6.1.6	FSD Inspection and Approval for DG Stores	21 days Wed 06/12/23 Tue 26/12/2	3 30 days 1194,1195,8	16 1187	
86	1185 5.34.6.1.7	Submission of (FSI/314 & FSI/501) to FSD	14 days Fri 05/01/24 Thu 18/01/2	7 days 1194,1195,11	183,1 1187	
187	1187 5.34.6.1.8	Pre-inspection meeting with FSD	5 days Fri 26/03/24 Tue 30/01/3	0 days 1186,1184,11	185 1188	
-	1188 5.34.6.1.9	Initial Inspection with FSD	15 days Wed 31/01/24 Wed 14/02/	24 0 days 1187	1189	
0 P.	1189 5.34.6.1.10	Document Checking	45 days Thu 15/02/24 Sat 30/03/2		1190	
-	1190 5.34.6.1.11	Re-inspections with FSD	14 days Sun 31/03/24 Sat 13/04/2		1191	
	1191 5.34.6.1.12	Issue of acceptance memo by FSD	14 days Sun 14/04/24 Sat 27/04/2		1173FF	
	1192 5.34.6.1.13	Installation of FS Pumps and Sprinkler Pumps	60 days Mon 03/04/23 Thu 03/05/2		1195	FS - A x 4*6 men
_	1192 5.34.6.1.13		60 days Mon 03/04/23 Thu 03/06/		1195	F5-Ax4*6 men
- 1	1193 5.34.6.1.14	Installation of Fire Hydrant and Booster Pumps	60 days Sat 07/10/23 Tue 05/12/-		768,81186,1184,1185	a tract workd
1		SAT for Manual and automatic fire detection and alarm system			768,81186,1184,1185 53,48:1186,1184,1185	
	1195 5.34.6.1.16	SAT for Fire hydrants, hose reels and street fire hydrant system	60 days 5at 07/10/23 Tue 05/12/		33,48,1189,1184,1185	
22	1196 5,35	Fire Services Sprinkler Pumping Room, Portion 8-7 & 8-78 (PS 68.6.9)	421 days Thu 19/05/22 Thu 13/07/			
- C - L	1197 5.35.1	Site Installation Work	421 days Thu 19/05/22 Thu 13/07/		Lanna	
	1198 5.35.1.1	Tentative Civil Handover Date, FS Sprinkler Pump Room (Rev. 5)	1 day Thu 19/05/22 Thu 19/05/.		1199,1204	
	1199 5.35.1.2	Commencement of E&M Installation at FS & Sprinkler Pump Room	420 days Thu 19/05/22 Thu 13/07/			
- 1	1200 5.35.1.2.1	Mechanical Installations for FS & Sprinkler Pumps	90 edays Thu 19/05/22 Wed 17/08	22 O edays	1201	
201	1201 5.35.1.2.2	Electrical Installations for FS & Sprinkler Pumps	90 edays Wed 17/08/22 Tue 15/11/.	0.63 edays 1200	1202,1205,1206,1	12
202	1202 5.35.1.2.3	Site Acceptance Test for FS & Sprinkler Pumps	45 days Wed 16/11/22 Fri 30/12/2	2 0 days 1201	1203	
203	1203 5.35.1.2.4	System Commissioning for FS & Sprinkler Pumps	45 days Sat 31/12/22 Mon 13/02	2: 325 days 1202	1186	
	1204 5.35.1.2.5	Building Services Installations at FS & Sprinkler Pump Room	240 days Wed 16/13/22 Thu 13/07/	23 200 days 1198		
- 1	1205 5 35.1.2.5.1	Lighting and Power Distribution System, Chem 18-2	120 days Wed 16/11/22 Wed 15/03		1208	
	1206 5.35.1.2.5.2		30 days Wed 16/11/22 Thu 15/12/.		1208	
	1207 5.35.1.2.5.3	Mechanical Ventilation System, FS & Sprinkler PR	14 days Wed 16/11/22 Tue 29/11/.		1208	
	1208 5.35.1.2.5.4	Testing and Commissioning of Building Services Installations, FS & Sprinkler PR	120 days Thu 16/03/23 Thu 13/07/.			
	1208 5.35.1.2.5.4	Fire Hydrant and Booster Pumping Room, Portion 87 & 8-78 (PS 68.6.9)	465 days Thu 19/03/22 Sat 26/08/2			
_	1210 5.36.1	Site Installation Work	465 days Thu 19/05/22 Sat 26/08/2			and the same
	1210 5.36.1.1	Site Installation work Tentative Civil Handover Date, Fire Hydrant and Booster Pumping Room (Rev. 5)	1 day Thu 19/05/22 Thu 19/05/		856#F+50 days, 12	21
	1212 5.36.1.2		464 days Thu 39/05/22 Sat 26/08/2		and the same	1)
		Commencement of E&M Installation at Street FH Pump Room			1114	4
	1213 5.36.1.2.1	Mechanical Installations for Street FH Pumps	50 edays Thu 19/05/22 Wed 17/08		1214	
214	1214 5.36.1.2.2	Electrical Installations for Street FH Pump	50 edays Wed 17/08/22 Tue 15/11/		1215,1218	
- 1	1215 5.36.1.2.3	Site Acceptance Test for Street FH Pump	45 days Wed 16/13/22 Fri 30/12/2		1216	
215	1216 5.36.1.2.4	System Commissioning for Street FH Pumps	45 days Sat 31/12/22 Mon 13/02	2: 339 days 1215	1186FF	

## Status Date Sat 20/03/21

DE\_2018\_04 Revised PG- (Rev 8, 2021-03)

	e Services Dep	padment				Prop Effluent Polishing Pla	oosed Work Programme ant - Main Works Stage 1
ID WBS	85 1	Task Name	Duration Start between Task	Finish	Float Time Predecessors	Successors	Resource Names
7 1217 5.36	36.1.2.5	Building Services Installations at Street FH Pump Room	Start and Finish	11/22 Sat 26/08/23	156 days	_	-
8 1218 5.35		Lighting and Power Distribution System, Street FH PR	THE REAL PROPERTY OF	11/22 Wed 15/03/2		1221,1219	
9 1219 5.36		Lightning Protection System, Street FH PR		3/23 Fri 14/04/23	0 days 1218	1220,1221	
1220 5.36		Mechanical Ventillation System, Street FH PR		/23 Fri 28/04/23	0 days 1219	1221	MVAC - A x 4~6 men
1 1221 5.36		Testing and Commissioning of Building Services Installations, FH PR		/23 Sat 26/08/23		1186FF	
2 1222 5.37	37	Plumbing Installation (PS 68.6.8)	1049 days Tue 16/0	2/21 Tue 02/01/24	0 days		
1223 5.37	37.1	Planned Sectional Completion Date - Section 1, Plumbing	0 days Thu 01/0	7/21 Thu 01/07/21	0 days 1225FF		
4 1224 5.37	37.2	Design Submissions for Plumbing	134 days Tue 16/0	2/21 Wed 30/06/2	1 day		
1225 5.37		CD5033 - Detailed Design for Plumbing System	134 edays Tue 16/0	2/21 Wed 30/06/21	0.63 edays 149	1228,1223FF	
16 1226 5.37		Site Installation Work	915 days Thu 01/0	7/21 Tue 02/01/24	0 days		
17 1227 5.37		Commencement of Plumbing Installation		7/21 Tue 02/01/24		the second	-
18 1228 5.37		Submission of detail design for acceptance		7/21 Tue 28/09/21		1229	Pb - Ax 4*6 men
19 1229 5.37		Submission of WWO542 for WSD's approval		09/21 Sun 18/09/22			Pb - 8 x 4~6 men
10 1230 5.37		Connection of External Pumping System (By others)		/23 Fri 15/09/23	17 days	1231	
1231 5.37		Submission of WWO46 for WSD's Inspection		10/23 Wed 15/11/2			
12 1232 5.37		Obtain WW045 Part V		1/23 Sat 30/12/23		1233	
12 1232 5.37		Obtain WWOOS Part V Tentative Date for connection of external water pipework (by others)		1/24 Tue 02/01/24			
1233 5.37		Photovoltaic Power System (PS 68.6.11)		03/21 Mon 01/04/2			
1235 5.38		Photovoitaic Power System (PS 68.6.11) Planned Sectional Completion Date - Section 1, BR 2A & 28	A CONTRACTOR OF A CONTRACTOR	07/21 Mon 12/07/21			
1235 5.38 16 1236 5.38		Planned Sectional Completion Date - Section 2, BR 24 & 28 Planned Sectional Completion Date - Section 2, BR 24 & 28		04/24 Mon 01/04/24			
1236 5.38			a second second second	03/21 Wed 12/05/2			
1237 5.38		Selection of Suppliers for major plant and materials for BR 2A & 2B	10110110 101000	03/21 Wed 12/05/2			
10 1238 5.38		PV System (EQT041)		03/21 Web 12/05/2.		1240	-
		Submission for acceptance of purchasing package		03/21 Toe 30/03/21		1240	
1240 5.38		Invitation of quotations for purchasing package		03/21 Tue 20/04/21 04/21 Tue 11/05/21		1241	
1 1241 5.38		Acceptance of conforming quotation				1242	
12 1242 5.38		Commencement of Design Work		05/21 Wed 12/05/21 05/21 Wed 30/06/2		1544	
1243 5.38		Design Submissions	100 T			1345	
4 1244 5.38		CDS060 - Detailed Design for PV System	11075700 CM 80.0751 CM	05/21 Sat 26/06/21		1245	
1245 5.38		Complete the CLP's Electronic Application Form and Upload Required Documents		5/21 Wed 30/06/2		1235FF,1247	
1246 5.38		Material ordering and delivery to site		7/21 Sun 06/08/23			
1247 5.38		Manufacturing and Factory Acceptance Test of Plant		7/21 5at 27/11/21		1248	
48 1248 5.38		Shipping and Delivery of Plant to site		/23 5un 06/08/23		10 1251	
1249 5.38		Site Installation Work		12/23 Fri 02/02/24			
50 1250 5.38		Tentative Civil Handover Date, Portion 8-4, BR2A & 28 (Rev. 5)		2/23 The 23/02/23		124855+120 eday	
51 1251 5.36		Commencement of Site Installation Work		08/23 Sat 04/11/23		1252	PV - Ax 4*6 men
52 1252 5.38		Technical Assessment, System Test and Installation		1/23 Wed 03/01/24		1253	PV - Ax 4°6 men
53 1253 5.38		CLP's smart meter installation and Final on-grid test with CLP		1/24 Fri 02/02/24	59 days 1252	1236FF	
54 1254 5.35		Plant Commissioning		9/23 Wed 08/05/24		39ff	
\$5 1255 5.35		Planned Sectional Completion Date - Section 4, Plant Commissioning		05/24 Wed 01/05/24			
56 1256 5.35		Design Submission for Treatment Process Plant Testing & Commissioning		11/23 Mon 29/01/2			
57 1257 5.39		Document Submission and Resubmission for T&C procedures		11/23 Mon 29/01/24			
58 1258 5.39		System Commissioning Tests of the E&M systems at IW, PST, BR 2A&2B, MFB No. 2, Chemica		12/24 Wed 14/02/24			di
59 1259 5.39	39.4	MBR System Process Startup	35 days Thu 15/0	2/24 Wed 20/03/24		1260	
60 1260 5.39	.39.5	Plant Commissioning	35 days Thu 21/0	3/24 Wed 24/04/24		1263	
61 1261 5.39	39.6	Overall commissioning of CCTV system		9/23 Wed 11/10/2			
62 1262 5.39	.39.7	Overall commissioning of Facility Computerized Systems (SCADA, CMMS, PMS, IDMS)	28 days Mon 11/	12/23 Sun 07/01/24	108 days 344,473,758,75	9 1263	
63 1263 5.39	.39.8	Overall Plant Commissioning and DSD pre-handover inspections	14 days Thu 25/0	4/24 Wed 08/05/24	5 days 1260,1261,1267	2	
64 1264 5.4	.40	CE No. 009 - Provision of an Additional Primary Studge Thickening System	140 days Tue 14/0	07/20 Mon 30/11/2	0 days		
65 1265 5.40	.40.1	Detail Design Submission and Approval	77 days Tue 14/0	7/20 Mon 28/09/20	C 18 days	1267	
66 1266 5.4	.40.2	Subletting, Procurement, Manufacturing and Delivery	120 days Fri 31/07	/20 Fri 27/11/20	0 days		
67 1267 5.4	.40.3	Site Installation	40 days Sat 17/10	0/20 Wed 25/11/2	0 days 1265	1268	
68 1268 5.4		Testing and Commissioning	5 days Thu 26/1	1/20 Mon 30/11/2	0 days 1267	1269/#	
69 1269 5.4	.40.5	Planned Completion Date	1 day Mon 30/	11/20 Mon 30/11/2	0 days 1268FF		
20 1270 6		Beam Plus Submissions	1450 days Fri 01/05	/20 Fri 19/04/24	0 days		
71 1271 6.1		SA10 - Environmental Management Plan	1450 days Fri 01/05	/20 Fri 19/04/24	19 days	39	
12 1272 6.2	.2	SA11 - Air Pollution During Construction	1450 days Fri 01/05	/20 Fri 19/04/24	19 days	39	
73 1273 6.3		SA12 - Noise During Construction	1450 days Fri 01/05	/20 Fri 19/04/24	19 days	39	
74 1274 6.4		SA14 - Noise from Building Equipment	1450 days Fri 01/05	/20 Fit 19/04/24	19 days	39	
201202	66 C		<u></u>	1002205	n chool	100	-
	1.0	uk. Mitstone I Late		Critical Split	Manual Pro	9*11 ·····	- Milectore (Actual) +
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oject DE/2018	MB	iestone, Tentalive 🗣 Summary Manual Summary I Orio	ical Ministerio	Fragress	Slack (Float)	· · · · · · · · · · · · · · · · · · ·	- Slack -

Drakase Review Dynammer         Proposed Work Programmer for UL/20           0         Vr85         Task Name         Durasion         Stark         Win Hul Effluenze Polishiling Plant. Main Works Stage 1 EdM We           0         Vr85         Task Name         Durasion         Stark         Initial         Prodecessors         Starswork Miring																			
10 1	WBS	1	Duration Start between Task Start and Finish	Finish	Float Time	Predecessors	Successors	Resource Names	2023 Half 1, 20	е., <u>н</u> н	wr 2, 2020	2021 Holf 1, 2021	м м ните 2021	2022 Half 3, 202	u I u Hatz	2022	2023 Hulf 1, 2023	Hull 2 2021	2024 Half 5, 2024
1275 6	6.5	SA15 - Light Pollution	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			M	1111				Real and a start of the				
16 1276 6	6.6	MAP1 - Timber used for Temporary Works	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			-		_	-						
7 1277 6	6.7	MAP2 - Use of Non-CFC Based Refrigerants	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39				_								
8 1278 6	6.8	MAP3 - Waste Management Plan	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39						_						
12796	6.9	MA2 - Modular and Standardized Design	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39												
1280 6	6.10	MA8 - Ozone Depleting Substances	1450 days Fri 03/05/20	Fri 19/04/24	19 days		39			-	_								
1 1281 6	6.11	MA11 - Construction Waste Reduction	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39				_					_			
2 1282 6	6.12	EUP1 - Minimum Energy Performance	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39				_								
3 1283 6	6.13	EU1 - Reduction of CO2 Emissions	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			0	_	_							
4 1284 6	6.14	EU2 - Peak Electricity Demand Reduction	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			0	_	_				_	_		
5 1285 6	6.15	EUG - Renewable Energy Systems	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39				_		_					_	
6 1285.6	6.16	EU9 - Energy Efficient Appliances	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			_		_			_				
7 1287 6	6.17	EU10 - Testing and Commissioning	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39												
8 1288 6	6.18	EU11 - Operation and Maintenance	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39												
9 12896	6.19	EU12 - Meter and Monitoring	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			_									
0 1290 6	6.20	WUP1 - Water Quality Survey	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			-	_	_							
1 1291 6	6.21	WUP2 - Minimum Water Saving Performance	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39				_								
2 1292 6	6.22	WU1 / WU6 - Annual Water Use / Effluent Discharge to Foul Sewers	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			-				_					
3 1293 6	6.23	IEQP1 - Minimum Ventilation Performance	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39						_	_		_			
4 1294 6	6.24	IEQ1 - Security	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			-	_					_			
5 1295 6	6.25	IEQ2 - Plumbing and Drainage	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39				_					_			
6 1296.6	6.26	IEQ3 - Biological Contamination	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39						_				_		
1 1297 6	6.27	IEQ5 - Construction IAQ Management	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			-			_						
1298.6	6.28	IEQ6/IEQ7-IAQ	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			_	_								
12996	6.29	IEQ9 - Increased Ventilation	1450 days Fri 03/05/20	Fri 19/04/24	19 days		39			-									
1300 6	6.30	IEQ11 - Localised Ventilation	1450 days Fri 01/05/20		19 days		39												
1 1301 6	6.31	IE012 - Ventilation In Common Areas	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39												
2 1302 6		IEQ13 - Thermal Comfort in Air - Conditioned Premises	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			-	_					_			
3 1303 6		IEQ16 / IEQ17 - Interior Lighting in Normally Occupied Area / Interior Lighting in Areas not Nor	1450 days Fri 01/05/20	Fri 19/04/24	19 days		39			-		-							
4 13047		Summary of compensation events notified	126 days? Wed 22/04/2				100			-									
5 13057	7.1	Compensation Event (CE) No. 001, Special Arrangement in Reducing the Risk of the Spread of Novel Cor	1 day Tue 25/08/20	Tue 25/08/20	0 days						e 25/08								
6 13067		Compensation Event (CE) No. 002, the Contractor's Site Accommodation by Modular Integrated Constru	1 day Mon 08/06/20							e 05/									
13077		Compensation Event (CE) No. 003, Designated Area for the Contractor's Site Accommodation in Works	1 day Wed 22/04/20							. 22/04									
6 13087		Compensation Event (CE) No. D05, Designated Area for the Contractor's Storage Area In Works Area W/	1 day Wed 22/04/20				-			@ 22/04									
13097		Compensation Event (CE) No. 007, Employment of Temporary Staff under Anti-Epidemic Fund	1 day fri 10/07/20		0 days						10/07								
10 13107		Compensation Event (CE) No. 009, Provision of an Additional Primary Sludge Thickening System and Del	1 day Tue 14/07/20								14/07								
11 1311 7		Compensation Event (CE) No. 011, Dismantling, relocating, disconnecting and re-installing of the existin	1 day? Fri 17/07/20		0 days?		-				17/07								

Status Date Sat 20/03/21

DE\_2018\_04 Revised PG- (Rev 8, 2021-03)