## **Drainage Services Department**

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

# Monthly EM&A Report February 2021

(Version 1)

Certified By

(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

## CINOTECH CONSULTANTS LTD

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16 March 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 February 2021

Reference is made to the Environmental Team's submission of Monthly EM&A Report for February 2021 (Version 1) certified by the ET Leader and provided to us via e-mail on 16 March 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

Manson Yeung

Independent Environmental Checker

c.c.

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

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#### **EXECUTIVE SUMMARY**

#### Introduction

1. This is the 14<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 February 2021.

## Summary of Main Works Undertaken and Key Measures Implemented

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

Table I 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> </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-drill works at Portion B-1
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>

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

• Stagnant water was removed, pumped and collected in the sedimentation tank.

#### Waste Management

• Chemicals were stored in drip trays properly.

## Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels during the reporting month (February 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

	Event Details  Event Details		Follow-up/ Remedial Actions	Status/
Number Brief Description			Remarks	
Complaints Received	1	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>	Complaint Investigation Report (CIR) was submitted in March 2021
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

## **Reporting Changes**

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

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## **Future Key Issues**

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

Table III 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>Piling load test</li> <li>Pre-bored H piles</li> <li>Alternation of existing powerhouse</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	Socket H pilling	
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 and 6</li> </ul>	

#### 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 93,000m²/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 190,000m³/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 14<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 February 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)
    - o Contract No.: DC/2018/07 Kwan Lee Chun Wo Joint Venture (KLCWJV)
    - o Contract No.: DE/2018/03 Jardine Engineering Corporation Limited (JEC)
    - o Contract No.: DE/2018/04 Bestwise Envirotech Limited (Bestwise)

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

**Table 1.1** Key Project Contacts

Party	Role	Contact Person	Phone No.
DSD	Permit Holder	Ms. Konica Cheung	2594 7463
AECOM	Supervisor Representative	Mr. Henry Tai	3792 0580
Cinetach 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

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> </ul>

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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-drill works at Portion B-1
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 February 2021.

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

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

Table 1.3 Summary of Environmental License and Permit

Contract No	Downsid / I 2 NT	Valid Period		g, ,		
Contract No.	Permit / License No.	From	То	Status		
Environmental Permit (EP)						
All	FEP-02/474/2013	15 Feb 2018	N/A	Valid		
Notification of Construction Works under Air Pollution Control Ordinance (APCO)						
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	460065 (Sidestream)	16 Sep 2020	N/A	Valid		
DE/2018/04	460181	Notified EPD on 17 Sep 2020	N/A	Valid		
Billing Accoun	nt for Construction Waste Disposa	l				
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	20 Jan 2021	31 Jan 2026	Valid		
Construction I	Noise Permit (Use of Powered Mec	hanical Equipmo	ent at Portion A	, B and C)		
DC/2018/06 & DC/2018/07	GW-RN0753-20	30 Oct 2020	11 Apr 2021	Valid		
<b>Admission Tic</b>	ket for Disposal of Special Waste					
DC/2018/07	16113	17 Feb 2021	16 Jun 2021	Valid		

## 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. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

**Table 2.1 Air Quality Monitoring Locations** 

<b>Monitoring Stations</b>	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

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

<b>Monitoring Stations</b>	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**.

**Table 2.3** Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
1-hour TSP Dust Meter	Sibata Model No.: LD-5R	3
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

#### **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.

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# 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 m³/min. and 1.4 m³/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 0.3µm 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 ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±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:

Table 2.4 Major Dust Source during Air Quality Monitoring

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

#### 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 2.5 Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report (As 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 (February 2021), µg/m³
AM1 - Wai Loi Tsuen	N/A	N/A <sup>(1)</sup>	26.0 - 66.0
AM2 - Fu Tei Au	FLN-E28	255	22.0 - 63.8

Remarks

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

Table 2.6 Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report (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 (February 2021), μg/m <sup>3</sup>
AM1a - Site Boundary of the Shek Wu Hui STW (East)	N/A <sup>(1)</sup>	40.8 - 72.6
AM2a - Site Boundary of the Shek Wu Hui STW (North)	N/A <sup>(1)</sup>	40.7 - 74.9

Remarks:

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).

<sup>(1)</sup> No 24-hr TSP concentration was predicted in 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.

**Table 3.1 Noise Monitoring Stations** 

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

## **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 3.2** Frequency 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 3.3 Noise Monitoring Equipment** 

Equipment	Model and Make	Quantity
Integrating Sound Level Meter	BSWA 308	3
Calibrator	ST-120	2

#### 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**.

**Table 3.4** Other Noise Source Identified during Noise Monitoring

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

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 3.5** Baseline 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 3.6 Comparison of Noise Monitoring Data with Predictions in EIA Report (As Approved in 2013)

Monitoring Stations	NSR ID	Predicted Mitigated Construction Noise Levels in EIA Report (as Approved in 2013), dB(A)	Reporting Month (February 2021), Leq (30min) dB(A)
NM1 - Wai Loi Tsuen	N/A	N/A <sup>(1)</sup>	54.6 – 55.7
NM2 - Fu Tei Au	N/A	N/A <sup>(1)</sup>	53.2 – 57.9
NM3 – Man Kok Village	FN-18	66-75	56.6 – 59.5

Remarks:

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).

<sup>(1)</sup> No construction noise level was predicted in 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 4.1 Monitoring of Measures to Minimise Disturbance to Waterbirds on Ng Tung, 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 Monitoring Stations** 

Monitoring Stations	Descriptions	Influenced by Tidal Action
Transect T1		
Point Count Location P1		No
Point Count Location P2	Alana Na Tuna Dinan	
Transect T2	Along Ng Tung River	
Point Count Location P3		Yes
Point Count Location P4		
Point Count Location P5	At Shek Sheung River (Low-flow Channel)	No
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

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#### **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**.

Table 4.3	Representative	Waterbirds
-----------	----------------	------------

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

- 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	34	536
Waterbirds	10	224

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

 Table 4.5
 Abundance of Representative Waterbirds in the Reporting Month

Species Name	Common Name	Chinese Name	Abundance
Egretta garzetta	Little Egret	小白鷺	56
Ardea cinerea	Grey Heron	蒼鷺	52
Ardeola bacchus	Chinese Pond Heron	池鷺	32
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	12
Ardea alba	Great Egret	大白鷺	21
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	47

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

T values of Data in Deporting Month		Confidence Level (Critical Value)		
1-values (	T-values of Data in Reporting Month		95% (-2.353)	99% (-4.541)
A hara dan as	Monthly	2.152	✓	<b>✓</b>
Abundance	Seasonal	-2.383	×	✓

#### 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.

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

Common Name of	T-value		nce Level l Value)	T-value		nce Level l Value)	Overall
Representative Waterbird	Monthly	95% (-2.353)	99% (-4.541)	Seasonal	95% (-2.353)	99% (-4.541)	Overall
Little Egret	1.939	<b>&gt;</b>	<b>√</b>	-0.523	<b>&gt;</b>	<b>&gt;</b>	<b>√</b>
Grey Heron	-3.012	×	✓	-0.112	<b>√</b>	✓	✓
Chinese Pond Heron	-0.158	<b>√</b>	✓	-0.778	<b>√</b>	<b>√</b>	✓
Great Cormorant	-13.778	×	×	-10.112	×	×	Limit Level
Great Egret	1.192	<b>\</b>	✓	-0.092	<b>✓</b>	<b>✓</b>	✓
Eastern Cattle Egret	4.559	<b>√</b>	<b>√</b>	3.706	✓	<b>√</b>	<b>√</b>

#### 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.
- 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 February 2021 was much warmer and sunnier than the normal. To further elaborate, the monthly mean maximum temperature of 23.5°C, monthly mean temperature of 19.8°C and monthly mean minimum temperature of 17.5°C were 4.1°C, 2.7°C and 2.2°C above their corresponding normals (or 4.6°C, 3.0°C and 2.5°C above their corresponding 1981-2010 normals) and respectively the second, third and fourth highest on record for February. 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 4.8 Observations during Ecological Monitoring in the Reporting Month

Lagation	Observations			
Location	Project Related	Non-project Related		
T1 (PC1, PC2)	N/A	Fishing and jaywalking		
T2 (PC3, PC4)	Excavation and crane	N/A		
PC5	Excavation and crane	N/A		
T3 (PC6, PC7)	N/A	Jaywalking		

#### 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, 10, 18 & 23 February 2021 in the reporting month, whereas that for Contract No. DE/2018/03 and DE/2018/04 were conducted on 2, 9, 18 & 23 February 2021 in the reporting month. Joint site inspection with the representative of IEC was conducted on 23 February 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.

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

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 8.3 Observations and Recommendations of Site Audit of Contract No. DE/2018/03

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

	Date	Observations and	E II	
Parameters		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	

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#### **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 1 environmental complaint regarding odour emission from SWHEPP was received in the reporting month. No environmental 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>Piling load test</li> <li>Pre-bored H piles</li> <li>Alternation of existing powerhouse</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	Socket H pilling
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 and 6</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 14<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 4 ET joint weekly environmental site inspections were conducted in the reporting month.

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

11.6 1 environmental complaint was received in the reporting month. No 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.

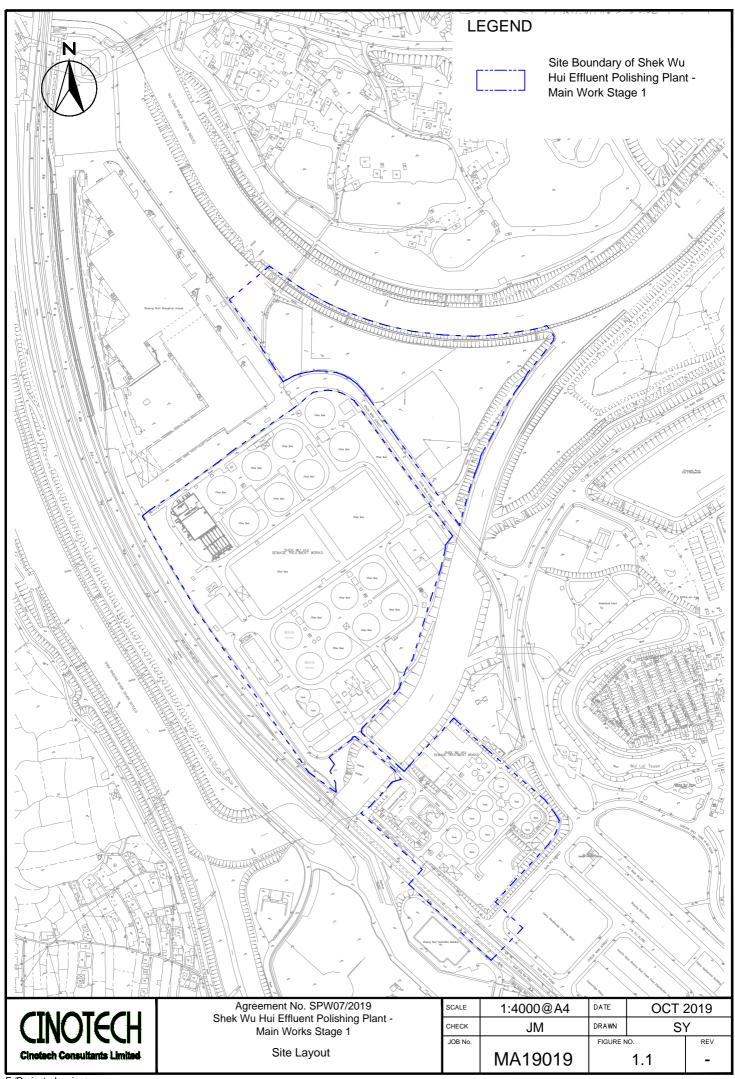
#### Water Quality

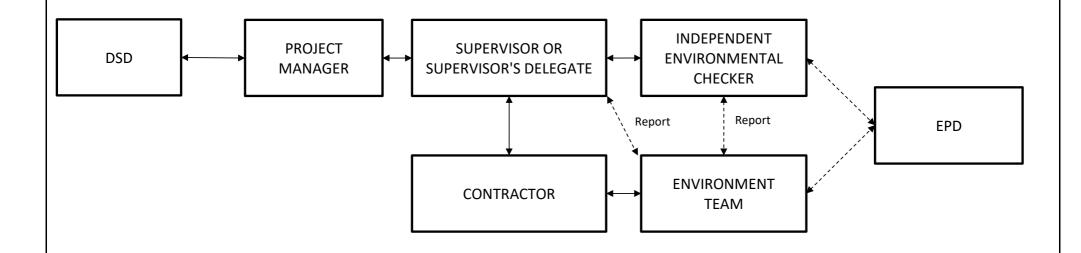
- Stagnant water should be removed and pumped through the sedimentation tank.
- Muddy water should not be discharged into the surrounding rivers.
- No slurry should be disposed of at the existing Shek Wu Hui Sewage Treatment Works.

#### Waste Management

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

**FIGURES** 



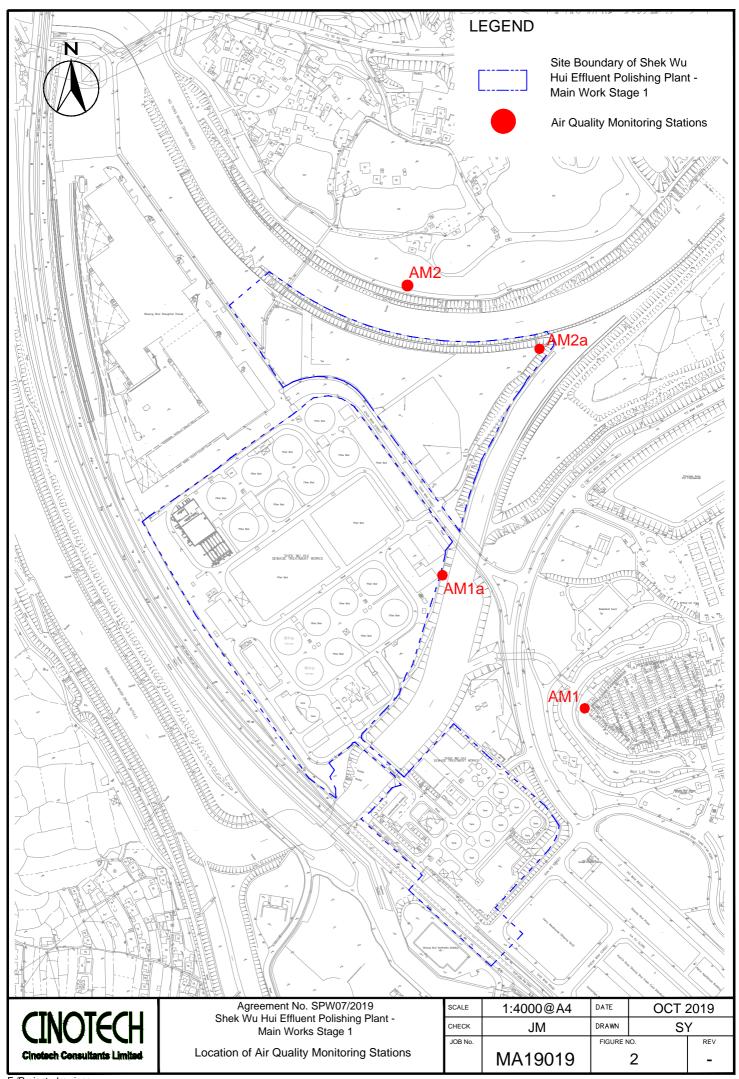


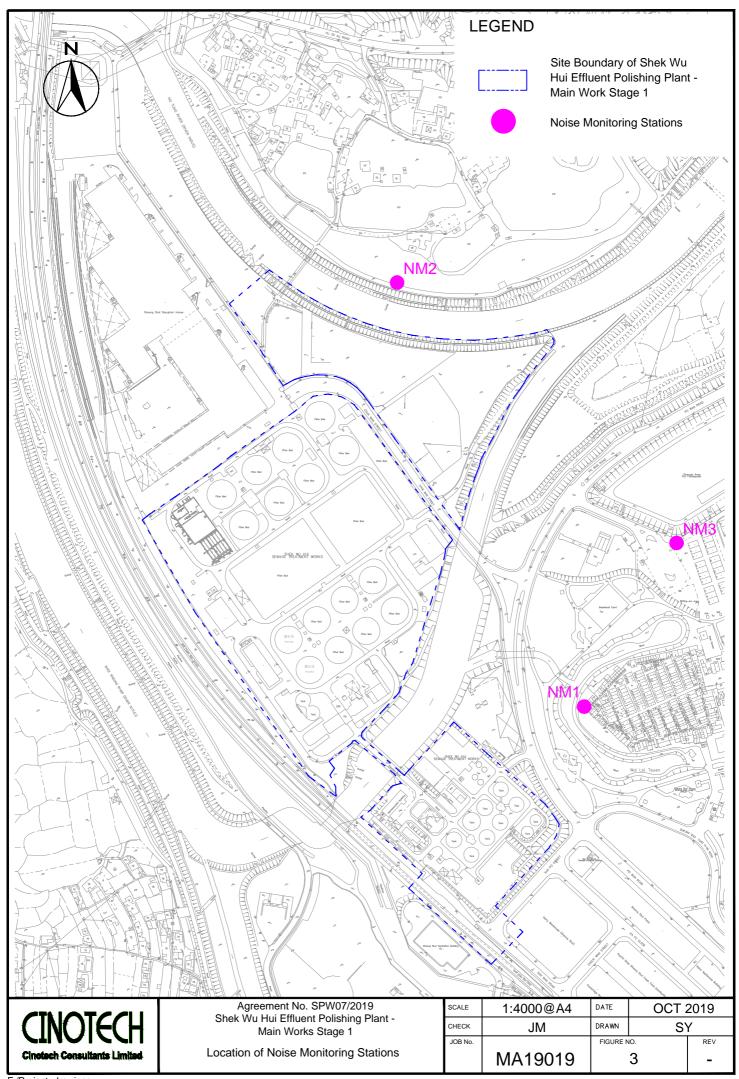
CIN		<b>IECH</b>
	_	

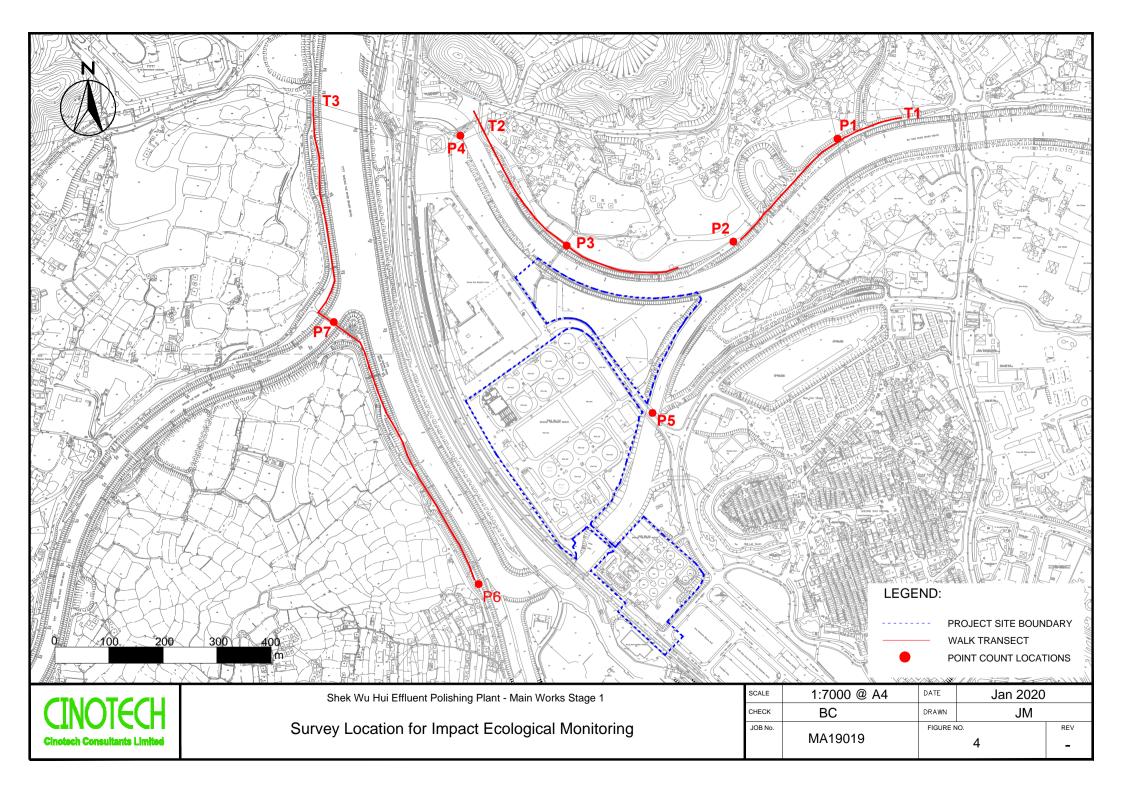
Agreement No. SPW07/2019 Shek Wu Hui Effluent Polishing Plant- Main Works Stage 1

**Project Organisation For Environmental Monitoring and Audit** 

SCALE	N.T.S.	DATE	Sep 2019
CHECK	JM	DRAWN	SY
JOB NO.	MA19019	FIGURE NO.	1.2







### APPENDIX A ACTION AND LIMIT LEVELS

#### Appendix A - Action and Limit Levels

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

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

Table A-2 Action 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-3 Action and 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 dB(A)*

<sup>\*</sup>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-4 Action and Limit Levels of Disturbance to Waterbirds using Ng Tung, 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.	Decline in numbers of all waterbird species relative to numbers during baseline monitoring such that the limit level response is triggered.
Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Action Level response is triggered.	Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Limit 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 (February 2021)

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

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

24-hr TSP

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

#### Noise Monitoring Station

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

#### Agreement No. SPW 07/2019

#### Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

#### Tentative 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			24 hrs TSP	1 hr TSP x 3 Ecology	
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			

**Air Quality Monitoring Station** 

1-hr TSP

AM1 - Wai Loi Tsuen AM2 - Fu Tei Au

24-hr TSP

 $AM1a - Site\ Boundary\ of\ the\ Shek\ Wu\ Hui\ STW\ (East)$   $AM2a - Site\ Boundary\ of\ the\ Shek\ Wu\ Hui\ STW\ (North)$ 

Noise Monitoring Station

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

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING

Digital Dust Indicator

Description:

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

Date of Calibration

5-Dec-20

Manufacturer:	Sibata Scientific Technology LTD.		Validity of Calibration Record 5-Feb-2		5-Feb-21	
Model No.:	LD-5R					
Serial No.:	8Y2374					
Equipment No.:	SA-01-04		Sensitivity	0.001 mg/m3		
High Volume Sa	High Volume Sampler No.: A-01-03		Before Sensit	ivity Adjustment	652	
Tisch Calibration	n Orifice No.:	3607	After Sensitiv	vity Adjustment	652	
		Ca	libration of 1 l	nr TSP		
Calibration		Laser Dust Monitor	r		HVS	
Point	Mass Concentration (μg/m3)  X-axis		/m3)	Mass concentration (μg/m³) <b>Y-axis</b>		
1	50.0			88.4		
2	46.0			84.2		
3	42.0			79.3		
Average		46.0		84.0		
By Linear Regr	ession of Y or	ı X				
Slope, $mw =$	1.13	75	Inter	cept, bw =	31.6417	<u>'</u>
Correlation co	oefficient* =	0.9990	)	_		
		Se	et Correlation l	Factor		
Particaulate Con	centration by l	High Volume Sampler	$(\mu g/m^3)$		84.0	
Particaulate Concentration by Dust Meter (µg/m³)			46.0			
Measureing time, (min)				60.0		
Set Correlation 1	Factor, SCF					
SCF = [ K=Hig	h Volume San	npler / Dust Meter, (µ	ıg/m3) ]	1.8		
In-house method	l in according	to the instruction manu	ıal:			

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)

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 Calibra	tion 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.: A-01-03	Before Sensitivi	ty Adjustment _	652	
Tisch Calibration	n Orifice No.: 3607	After Sensitivity	Adjustment _	652	
	Ca	alibration of 1 hr	TSP		
Calibration	Laser Dust Monito	r		HVS	
Point	Mass Concentration (μg <b>X-axis</b>	/m3)	Mass	concentration (μ <b>Y-axis</b>	g/m <sup>3</sup> )
1	52.0			107.0	
2	47.0		101.0		
3	43.0		95.0		
Average	47.3		101.0		
By Linear Regr	ression of Y on X				
Slope, $mw =$	1.3279	Interce	pt, bw =	38.1475	
Correlation co	pefficient* = 0.9979	)			
	So	et Correlation Fac	ctor		
Particaulate Con	centration by High Volume Sampler	$(\mu g/m^3)$		101.0	
Particaulate Concentration by Dust Meter (μg/m³)			47.3		
Measureing time, (min)			60.0		
Set Correlation I	Factor, SCF				
SCF = [ K=High	h Volume Sampler / Dust Meter, (µ	ıg/m3) ]	2.1		
In-house method	I in according to the instruction manu	ıal:			
The Dust Monito	or was compared with a calibrated Hi	gh Volume Sample	er and The result w	vas used to gener	ate 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: Lemy Leung

Description:

Digital Dust Indicator

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

Date of Calibration 5-Dec-20

Manufacturer:	Sibata Scientific Technology LTD.				Validity of Calibration Record 5-Feb-21		
Model No.:	LD-5R						
Serial No.:	972778						
Equipment No.:	SA-01-07		Sensit	ivity	0.001 mg/m3	_	
High Volume Sa	mpler No.:	A-01-01A	Befor	e Sensit	ivity Adjustment	735 CPM	
Tisch Calibration	Tisch Calibration Orifice No.: 3607			Sensitiv	ity Adjustment	735 CPM	
			Calibratio	n of 1 h	ar TSP		
Calibration Laser Dust Monitor					HVS		
Point	Mass Concentration (μg/m3)  X-axis				Mass concentration (μg/m³)  Y-axis		
1	48.0				88.4		
2	43.0			84.2			
3	38.0			79.3			
Average		43.0			84.0		
By Linear Regressions Slope, mw = Correlation co	0.910	00	0.9990	Inter	cept, bw =	44.8367	<u>,                                     </u>
			Set Corre	lation I	actor		
Particaulate Cond	centration by H	Iigh Volume Sa	mpler (μg/m <sup>3</sup> )		84.0		
Particaulate Concentration by Dust Meter (µg/m³)			43.0				
Measureing time, (min)				60.0			
Set Correlation Factor, SCF  SCF = [ K=High Volume Sampler / Dust Meter, (µg/m3) ]			2.0				
In-house method The Dust Monito	•			ıme San	npler and The resul	t was used to gene	erate 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

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

Description:	Digital Dust Indicator	Date	Date of Calibration 5-Feb-21		
Manufacturer:	Sibata Scientific Technology LTI	O. Validity of Calib	Validity of Calibration Record 5-		
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 Sensitivity Adjustment	735 CPM		
Tisch Calibration	n Orifice No.: 3607	After Sensitivity Adjustment	735 CPM		
		Calibration of 1 hr TSP			
Calibration	Laser Dust Moni	tor	HVS		
Point	$\mathbf{M} = \mathbf{C} + \mathbf{A}^{*} + (\mathbf{C} + \mathbf{A}^{*})$		ss concentration (μ <b>Y-axis</b>	ug/m³)	
1	51.0		107.0		
2	45.0		101.0		
3	40.0		95.0		
Average	45.3		101.0		
By Linear Regr	ession of Y on X				
Slope, $mw =$	1.0879	Intercept, bw =	51.6813		
Correlation co	pefficient* = 0.99	286			
		Set Correlation Factor			
Particaulate Con	centration by High Volume Sampl	$er (\mu g/m^3)$	101.0		
Particaulate Con	centration by Dust Meter (µg/m <sup>3</sup> )		45.3		
Measureing time	e, (min)		60.0		
Set Correlation I	Factor, SCF				
SCF = [ K=Hig	h Volume Sampler / Dust Meter,	(μg/m3) ] 2.2			
In-house method	l in according to the instruction ma	nual:			
	or was compared with a calibrated yeen the Dust Monitor and High V	High Volume Sampler and The result	was used to gener	rate the Correlation	

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

Calibrated by: Approved by: Leng Xong Shing Kwai

Approved by: Henry Leung

Digital Dust Indicator

Description:

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

Date of Calibration

5-Dec-20

Manufacturer:	Sibata Scientific Technology LTD.		_	Validity of Calib	5-Feb-21			
Model No.:	LD-5R							
Serial No.:	972779							
Equipment No.:	SA-01-08		Sensitivity	0.001 mg/m3	_			
High Volume Sa	impler No.:	A-01-01A	Before Sensiti	vity Adjustment	744 CPM			
Tisch Calibration	n Orifice No.:	3607	After Sensitiv	ity Adjustment	744 CPM			
		Ca	libration of 1 h	r TSP				
Calibration		Laser Dust Monitor	r		HVS			
Point	M	lass Concentration (µg/	/m3)	Mass concentration (μg/m³)				
	X-axis			Y-axis				
1		51.0		88.4				
2		47.0		84.2				
3		41.0		79.3				
Average		46.3		84.0				
By Linear Regr								
Slope , mw =	0.90	<u>26</u>	Inter	cept, bw =	42.1447			
Correlation co	oefficient* =	0.9975	<u> </u>					
		Se	t Correlation F	actor				
Particaulate Con	centration by I	High Volume Sampler	$(\mu g/m^3)$		84.0			
Particaulate Concentration by Dust Meter (µg/m³)				46.3				
Measureing time, (min)				60.0				
Set Correlation 1	Factor, SCF			-				
SCF = [ K=Hig	h Volume San	npler / Dust Meter, (μ	g/m3) ]	1.8				
In-house method	l in according	to the instruction manu	al:					
The Dust Monito	or was compar	ed with a calibrated Hi	oh Volume Sam	nler and The resul	t was used to gene	rate the Correlation		

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: Approved by: Approved by: Henry Leung

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 Calib	ration Record	5-Apr-21		
Model No.:	LD-5R					
Serial No.:	972779					
Equipment No.:	SA-01-08	Sensitivity 0.001 mg/m3	_			
High Volume Sa	ampler No.: A-01-01A	Before Sensitivity Adjustment	744 CPM			
Tisch Calibratio	n Orifice No.: 3607	After Sensitivity Adjustment	744 CPM			
	Ca	alibration of 1 hr TSP				
Calibration	Laser Dust Monito	r	HVS			
Point	Mass Concentration (μg <b>X-axis</b>	/m3) Ma	Mass concentration (μg/m³) <b>Y-axis</b>			
1	52.0		107.0			
2	47.0		101.0			
3	42.0		95.0			
Average	47.0		101.0			
By Linear Regr	ression of Y on X					
Slope, $mw =$	1.2000	Intercept, bw =	44.6000			
Correlation co	pefficient* = 1.0000	)				
	So	et Correlation Factor				
Particaulate Con	centration by High Volume Sampler	$(\mu g/m^3)$	101.0			
Particaulate Con	centration by Dust Meter (μg/m <sup>3</sup> )		47.0			
Measureing time	e, (min)		60.0			
Set Correlation 1	Factor, SCF					
SCF = [ K=Hig	h Volume Sampler / Dust Meter, (µ	1g/m3) ] 2.1				
In-house method	l in according to the instruction manu	aal:				
	or was compared with a calibrated Hi	-	was used to gener	rate the Correlation		

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

Calibrated by: Wong Shing Kwai Approved by: Lemy Leung



#### RECALIBRATION **DUE DATE:**

January 17, 2021

# ertificate o

**Calibration Certification Information** 

Cal. Date: January 17, 2020

Rootsmeter S/N: 438320

Ta: 295 Pa: 744.2 °K

Operator: Jim Tisch

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 3746

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (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

	Data Tabulation								
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)				
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)				
0.9849	0.6868	1.4066	0.9957	0.6944	0.8904				
0.9807	0.9633	1.9892	0.9914	0.9739	1.2592				
0.9787	1.0779	2.2240	0.9894	1.0896	1.4078				
0.9776	1.1237	2.3325	0.9883	1.1360	1.4765				
0.9724	1.3601	2.8131	0.9831	1.3749	1.7808				
	m=	2.09221		m=	1.31010				
<b>QSTD</b>	b=	-0.02779	QA	b=	-0.01759				
	r=	0.99994		r=	0.99994				

Calculations						
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)			
Qstd=	Vstd/∆Time	Qa=	Va/ΔTime			
For subsequent flow rate calculations:						
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$			

Standard Conditions					
Tstd:	298.15 °K				
Pstd:	760 mm Hg				
	Key				
ΔH: calibrator manometer reading (in H2O)					
ΔP: rootsme	ter manometer reading (mm Hg)				
Ta: actual absolute temperature (°K)					
Pa: actual barometric pressure (mm Hg)					
b: intercept					
m: slone					

#### RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30



RECALIBRATION
DUE DATE:

January 11, 2022

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: January 11, 2021

Rootsmeter S/N: 438320

°K

Operator: Jim Tisch

Ta: 297
Pa: 750.1

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 3864

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (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 Tabulation								
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	$\sqrt{\Delta H (Ta/Pa)}$				
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)				
0.9860	0.6814	1.4073	0.9957	0.6881	0.8899				
0.9818	0.9616	1.9902	0.9915	0.9711	1.2585				
0.9797	1.0719	2.2251	0.9893	1.0824	1.4071				
0.9786	1.1288	2.3337	0.9883	1.1399	1.4757				
0.9732	1.3630	2.8146	0.9828	1.3765	1.7798				
	m=	2.06566		m=	1.29348				
QSTD	b=	0.00315	QA	b=	0.00199				
	r=	0.99996		r=	0.99996				

Calculations						
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)			
Qstd=	Vstd/∆Time	Qa=	Qa= Va/ΔTime			
For subsequent flow rate calculations:						
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$			

Standard Conditions							
Tstd:	298.15 °K						
Pstd:	760 mm Hg						
	Key						
ΔH: calibrate	or manometer reading (in H2O)						
ΔP: rootsme	ter manometer reading (mm Hg)						
Ta: actual absolute temperature (°K)							
Pa: actual barometric pressure (mm Hg)							
b: intercept							
m: slope							

#### RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

FAX: (513)467-9009

www.tisch-env.com

#### 5-POINT CALIBRATION DATA SHEET

						File No.	MA19019/17/0008
-			ek Wu Hui STW (E				
Date:	6-Ja:	n-21	Next Due Date:	6-N	Mar-21	Operator:	SK
Equipment No.:	A-0	1-17	Model No.:	GS	S2310	Serial No.	3460
			Ambient C	ondition			
Temperatu	re, Ta (K)	290.1	Pressure, Pa	(mmHg)		764.9	
G : 1	LNI I		ifice Transfer Star			. 1	0.02740
Serial		3746	Slope, mc	0.0592	Intercept $c = [\Delta H \times (Pa/760)]$		-0.02740
Last Calibra		17-Jan-20					
Next Calibr	ation Date:	17-Jan-21		$Qstd = \{  \Delta H  x$	(Pa/760) x (298/7	ra)j -bc}/	mc
		•	Calibration of	ΓSP Sampler			
Calibration		Or	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	(0) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa	/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
Slope , mw = Correlation		0	.9976	Intercept, bw =	-0.234	16	
			Sat Daint Co	alaulatian			
From the TSD Fi	ield Calibration C	Surve toke Octd	Set Point Ca	aicuiation			
	ssion Equation, th						
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] <sup>1/2</sup>		
Therefore, Se	et Point; W = ( m	w x Qstd + bw )	<sup>2</sup> x ( 760 / Pa ) x ( 7	Γa / 298 ) =	4.06		-
Remarks:							
Conducted by:	SK Wong	Signature:				Date:	6 January 2021
Checked by	Henry Leung	Signature:	\ 0 ^	la r		Date:	6 January 2021

#### 5-POINT CALIBRATION DATA SHEET

						File No.	MA19019/24/0008
Project No.	AM2a - Site Bou	ındary of the Sh	ek Wu Hui STW (N	Jorth)		•	
Date:	6-Jan	n-21 Next Due Date:		6-N	Mar-21	Operator:	SK
Equipment No.:	A-01	1-24	Model No.:	TE	5170	Serial No.	1659
			Ambient C	ondition			
Temperatu	re, Ta (K)	290.1	Pressure, Pa			764.9	
	T	Or	ifice Transfer Star	ndard Informa	ntion		
Serial	No.	3746	Slope, mc	0.0592	Intercept		-0.02740
Last Calibra	ation Date:	17-Jan-20			$c = [\Delta H \times (Pa/760]]$		
Next Calibr	ation Date:	17-Jan-21	(	$Qstd = \{ [\Delta H \ x]$	(Pa/760) x (298/7	Γa)] <sup>1/2</sup> -bc} /	mc
			Calibration of T	ΓSP Sampler			
Calibration		Or	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa	/760) x (298/Ta)] <sup>1/2</sup> <b>Y-axis</b>
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
By Linear Regr Slope , mw =	ression of Y on X 0.0581		I	Intercept, bw	-0.412	3	
Correlation	coefficient* =	0	.9992	•			
	Coefficient < 0.99						
			Set Point Ca	lculation			
From the TSP Fi	eld Calibration C	urve, take Qstd					
	sion Equation, the	_					
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = \mathbf{\Delta W} \mathbf{x}$	(Pa/760) x (29	$(98/Ta) ^{1/2}$		
			_		, <b>.</b>		
Therefore, Se	et Point; W = ( my	w x Qstd + bw)	<sup>2</sup> x ( 760 / Pa ) x ( 7	Ta / 298 ) =	4.22		
Remarks:							
Conducted by:	SK Wong	Signature:				Date:	6 January 2021
conducted by.		Zigilatai C.		<u> </u>	•		
Checked by:	Henry Leung	Signature:	1-0	Mar		Date:	6 January 2021

#### 5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0027

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House				
Date:	10-Dec-20		Next Due Date:	10-Feb-21	Operator:	SK	
Equipment No.:	A-0	1-03	Model No.:	GS	S2310	Serial No.	10379
			Ambient C	ondition			
Temperatu	re, Ta (K)	293.9	Pressure, Pa			762.5	
Temperature, Ta (12)					<u> </u>	, , , , , ,	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3746	Slope, mc	0.0592	Intercept	t, bc	-0.02740
Last Calibra	ation Date:	17-Jan-20	r	nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$	) x (298/Ta)	]1/2
Next Calibr	ation Date:	17-Jan-21		$Qstd = \{ [\Delta H \ x] \}$	(Pa/760) x (298/7	Γa)] <sup>1/2</sup> -bc} /	mc
			Calibration of	ΓSP Sampler			
Calibration		Oı	fice			HVS	. /0
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	60) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa	/760) x (298/Ta)] <sup>1/2</sup> <b>Y-axis</b>
1	13.0		3.64	61.89	8.6		2.96
2	9.6		3.13	53.25	6.5		2.57
3	7.7		2.80	47.74	5.3		2.32
4	5.1		2.28	38.94	3.3		1.83
5	2.6		1.63	27.93	2.0		1.42
Slope , mw = Correlation	0.0463 coefficient* = Coefficient < 0.99	0	.9981	intercept, bw =	0.095	0	
			Set Point Ca	lculation			
	eld Calibration C sion Equation, th	ne "Y" value acce		(Pa/760) x (29	98/Ta)] <sup>1/2</sup>		
Therefore, Se	et Point; W = ( m	w x Qstd + bw )	<sup>2</sup> x ( 760 / Pa ) x ( 7	Γa / 298 ) =	4.27		-
Remarks:							
Conducted by:	SK Wong	Signature:	6/			Date:	10 December 2020
Checked by:	Henry Leung	Signature:	-lemy 0	log		Date:	10 December 2020

#### 5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0028

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House			_	
Date:	10-Fe	Next Due Date:		10-	Apr-21	Operator:	SK
Equipment No.:	A-0	1-03	Model No.:	GS	S2310	Serial No.	10379
			Ambient C		l		
Temperatu	re, Ta (K)	289.5	Pressure, Pa	(mmHg)		760	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial No. 3864 Slope, mc 0.05846			Intercept	t, bc	-0.00313		
Last Calibra	ation Date:	11-Jan-21	r	nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$	) x (298/Ta)	]1/2
Next Calibr	ation Date:	11-Jan-22			(Pa/760) x (298/7		
			C 111 41 65	EGD G			
		Λ.	Calibration of	18P Sampler		HVS	
Calibration Point	ΔH (orifice), in. of water		fice (50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in.		/760) x (298/Ta)] <sup>1/2</sup> <b>Y-axis</b>
1	12.9		3.64	62.39	8.7		2.99
2	9.6		3.14	53.83	6.5		2.59
3	7.8		2.83	48.52	5.3		2.34
4	5.2		2.31	39.63	3.4		1.87
5	2.6		1.64	28.04	2.0		1.43
Slope , mw = Correlation		0	.9984	Intercept, bw	0.097	5	
			Set Point Ca	alculation			
	eld Calibration C	_	= 43 CFM				
Therefore, Se	et Point; W = ( m		<b>Qstd</b> + <b>bw</b> = $[\Delta W x]^2 \times (760 / Pa) \times (760 / Pa)$		98/Ta)] <sup>1/2</sup> 4.21		
Remarks:							
Conducted by:	SK Wong	Signature:	<u> </u>			Date:	10 February 2021
Checked by:	Henry Leung	Signature:	leng X	~		Date:	10 February 2021



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

Description: <u>BM3 - Control Room at SWHSTW</u>

Manufacturer: Global Water Instrumentation

Model No.: WE800 Weather Station

Serial No.: <u>1517001963</u>

Equipment No.: SA-03-01

Date of Calibration 29-Oct-2020

Next Due Date <u>29-Apr-2021</u>

#### 1. Performance check of Wind Speed

Wind Sp	peed, 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 Di	rection (°)	Difference D (°)
Wind Direction Reading (V1)	Marine Compass Value (V1)	D = W1 - 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:	<b>1</b>	Approved by:	l-la Mar
	- Wong Shing Kwai	_	Henry Leung

#### APPENDIX D WEATHER INFORMATION

#### I. General Information from Hong Kong Observatory

D. A	Mean Air	Mean Relative	Precipitation
Date	Temperature (°C)	Humidity (%)	(mm)
1-Feb-21	20.3	76	0
2-Feb-21	20.9	76	0
3-Feb-21	18.4	69	0
4-Feb-21	19.4	68	0
5-Feb-21	19.9	72	0
6-Feb-21	20.7	73	0
7-Feb-21	20.3	74	0
8-Feb-21	19.9	79	0
9-Feb-21	18.5	76	Trace
10-Feb-21	16.5	89	32.2
11-Feb-21	17.4	78	0
12-Feb-21	18.4	69	0
13-Feb-21	19.2	76	0
14-Feb-21	19.9	75	0
15-Feb-21	21.1	70	0
16-Feb-21	20.3	71	0
17-Feb-21	20.4	70	0
18-Feb-21	18.5	65	0
19-Feb-21	18.5	66	0
20-Feb-21	19.6	73	0
21-Feb-21	20.4	74	0
22-Feb-21	21.4	78	0
23-Feb-21	21.7	74	0
24-Feb-21	20.3	79	Trace
25-Feb-21	20.2	85	1.8
26-Feb-21	22.3	86	14.7
27-Feb-21	18.8	89	13.4
28-Feb-21	19.9	83	Trace

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

Date	Time	Wind Direction (°)	Wind Speed (m/s)
1-Feb-21	0:00	79.6	0.1
1-Feb-21	1:00	89.6	0.1
1-Feb-21	2:00	53.0	0.1
1-Feb-21	3:00	56.1	0.1
1-Feb-21	4:00	92.1	0.1
1-Feb-21	5:00	116.4	0.1
1-Feb-21	6:00	88.9	0.1
1-Feb-21	7:00	106.1	0.1
1-Feb-21	8:00	112.7	0.2
1-Feb-21	9:00	121.4	0.1
1-Feb-21	10:00	118.9	0.2
1-Feb-21	11:00	152.0	0.1
1-Feb-21	12:00	162.5	0.2
1-Feb-21	13:00	130.0	0.2
1-Feb-21	14:00	162.7	0.1
1-Feb-21	15:00	206.4	0.5
1-Feb-21	16:00	159.4	1.0
1-Feb-21	17:00	143.9	0.1
1-Feb-21	18:00	127.1	0.2
1-Feb-21	19:00	110.5	0.4
1-Feb-21	20:00	137.9	0.4
1-Feb-21	21:00	142.4	0.2
1-Feb-21	22:00	133.9	0.1
1-Feb-21	23:00	102.9	0.2
2-Feb-21	0:00	143.1	0.1
2-Feb-21	1:00	126.6	0.1
2-Feb-21	2:00	124.3	0.1
2-Feb-21	3:00	113.5	0.1
2-Feb-21	4:00	158.9	0.1
2-Feb-21	5:00	47.1	0.1
2-Feb-21	6:00	110.2	0.1
2-Feb-21	7:00	125.8	0.3
2-Feb-21	8:00	95.7	0.1
2-Feb-21	9:00	99.9	0.4
2-Feb-21	10:00	127.1	0.3

Date	Time	Wind Direction (°)	Wind Speed (m/s)
2-Feb-21	11:00	88.4	0.2
2-Feb-21	12:00	118.4	0.2
2-Feb-21	13:00	136.2	1.1
2-Feb-21	14:00	107.1	0.6
2-Feb-21	15:00	94.1	0.2
2-Feb-21	16:00	138.4	0.3
2-Feb-21	17:00	143.9	0.1
2-Feb-21	18:00	111.2	0.1
2-Feb-21	19:00	194.1	0.3
2-Feb-21	20:00	91.8	0.7
2-Feb-21	21:00	135.3	0.4
2-Feb-21	22:00	148.8	0.2
2-Feb-21	23:00	115.8	0.1
3-Feb-21	0:00	93.8	0.1
3-Feb-21	1:00	101.9	0.1
3-Feb-21	2:00	128.3	0.1
3-Feb-21	3:00	103.1	0.1
3-Feb-21	4:00	111.3	0.1
3-Feb-21	5:00	107.1	0.1
3-Feb-21	6:00	87.6	0.2
3-Feb-21	7:00	114.3	0.1
3-Feb-21	8:00	112.7	0.1
3-Feb-21	9:00	92.5	0.1
3-Feb-21	10:00	121.1	0.1
3-Feb-21	11:00	115.1	0.2
3-Feb-21	12:00	134.8	0.2
3-Feb-21	13:00	90.3	1.0
3-Feb-21	14:00	130.4	0.5
3-Feb-21	15:00	133.9	0.2
3-Feb-21	16:00	210.0	0.1
3-Feb-21	17:00	108.3	0.2
3-Feb-21	18:00	178.7	0.3
3-Feb-21	19:00	131.3	0.1
3-Feb-21	20:00	106.2	0.1
3-Feb-21	21:00	119.9	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
3-Feb-21	22:00	113.8	0.1
3-Feb-21	23:00	133.3	0.1
4-Feb-21	0:00	177.3	0.2
4-Feb-21	1:00	115.9	0.2
4-Feb-21	2:00	145.6	0.2
4-Feb-21	3:00	118.6	0.1
4-Feb-21	4:00	99.8	0.1
4-Feb-21	5:00	30.6	0.1
4-Feb-21	6:00	92.6	0.1
4-Feb-21	7:00	61.4	0.2
4-Feb-21	8:00	54.6	0.2
4-Feb-21	9:00	100.8	0.2
4-Feb-21	10:00	77.8	0.1
4-Feb-21	11:00	47.2	0.3
4-Feb-21	12:00	87.4	0.3
4-Feb-21	13:00	80.6	0.3
4-Feb-21	14:00	99.7	0.4
4-Feb-21	15:00	119.8	0.2
4-Feb-21	16:00	114.4	0.3
4-Feb-21	17:00	92.6	0.1
4-Feb-21	18:00	73.9	0.1
4-Feb-21	19:00	78.8	0.2
4-Feb-21	20:00	48.6	0.1
4-Feb-21	21:00	61.9	0.1
4-Feb-21	22:00	84.6	0.1
4-Feb-21	23:00	75.4	0.1
5-Feb-21	0:00	24.6	0.1
5-Feb-21	1:00	72.1	0.1
5-Feb-21	2:00	60.4	0.1
5-Feb-21	3:00	120.6	0.1
5-Feb-21	4:00	73.7	0.2
5-Feb-21	5:00	77.5	0.1
5-Feb-21	6:00	103.8	0.1
5-Feb-21	7:00	55.0	0.1
5-Feb-21	8:00	99.8	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
5-Feb-21	9:00	76.4	0.1
5-Feb-21	10:00	82.4	0.1
5-Feb-21	11:00	129.3	0.1
5-Feb-21	12:00	142.9	0.2
5-Feb-21	13:00	117.8	0.3
5-Feb-21	14:00	128.0	0.2
5-Feb-21	15:00	138.1	0.1
5-Feb-21	16:00	111.9	0.1
5-Feb-21	17:00	116.3	0.1
5-Feb-21	18:00	128.9	0.1
5-Feb-21	19:00	113.1	0.1
5-Feb-21	20:00	122.8	0.2
5-Feb-21	21:00	105.8	0.1
5-Feb-21	22:00	110.4	0.2
5-Feb-21	23:00	148.8	0.2
6-Feb-21	0:00	150.9	0.1
6-Feb-21	1:00	149.2	0.1
6-Feb-21	2:00	109.7	0.1
6-Feb-21	3:00	156.4	0.8
6-Feb-21	4:00	137.9	0.1
6-Feb-21	5:00	106.1	0.2
6-Feb-21	6:00	164.7	0.1
6-Feb-21	7:00	102.2	0.1
6-Feb-21	8:00	120.2	0.4
6-Feb-21	9:00	141.5	0.7
6-Feb-21	10:00	137.4	0.5
6-Feb-21	11:00	113.6	1.1
6-Feb-21	12:00	133.4	3.1
6-Feb-21	13:00	94.1	0.4
6-Feb-21	14:00	166.9	0.1
6-Feb-21	15:00	88.3	0.2
6-Feb-21	16:00	119.4	0.2
6-Feb-21	17:00	124.5	0.3
6-Feb-21	18:00	181.0	0.2
6-Feb-21	19:00	99.2	0.2

Date	Time	Wind Direction (°)	Wind Speed (m/s)
6-Feb-21	20:00	99.8	0.1
6-Feb-21	21:00	125.6	0.1
6-Feb-21	22:00	100.4	0.1
6-Feb-21	23:00	132.2	0.1
7-Feb-21	0:00	113.6	0.2
7-Feb-21	1:00	113.0	0.1
7-Feb-21	2:00	110.4	0.1
7-Feb-21	3:00	107.4	0.1
7-Feb-21	4:00	116.6	0.1
7-Feb-21	5:00	119.2	0.1
7-Feb-21	6:00	92.1	0.1
7-Feb-21	7:00	36.3	0.1
7-Feb-21	8:00	69.2	0.1
7-Feb-21	9:00	94.6	0.1
7-Feb-21	10:00	121.6	0.1
7-Feb-21	11:00	115.6	0.1
7-Feb-21	12:00	126.7	0.1
7-Feb-21	13:00	132.1	0.1
7-Feb-21	14:00	125.7	0.1
7-Feb-21	15:00	112.9	0.2
7-Feb-21	16:00	68.1	0.1
7-Feb-21	17:00	43.1	0.4
7-Feb-21	18:00	57.6	0.2
7-Feb-21	19:00	78.9	0.2
7-Feb-21	20:00	65.2	0.1
7-Feb-21	21:00	90.3	0.1
7-Feb-21	22:00	219.9	0.1
7-Feb-21	23:00	55.3	0.1
8-Feb-21	0:00	106.6	0.1
8-Feb-21	1:00	88.9	0.1
8-Feb-21	2:00	54.9	0.1
8-Feb-21	3:00	103.8	0.5
8-Feb-21	4:00	62.4	1.4
8-Feb-21	5:00	62.5	2.2
8-Feb-21	6:00	73.7	0.4

Date	Time	Wind Direction (°)	Wind Speed (m/s)
8-Feb-21	7:00	34.1	0.2
8-Feb-21	8:00	41.4	0.2
8-Feb-21	9:00	91.4	0.1
8-Feb-21	10:00	48.4	0.1
8-Feb-21	11:00	92.1	0.2
8-Feb-21	12:00	94.8	0.2
8-Feb-21	13:00	34.9	0.2
8-Feb-21	14:00	66.9	0.4
8-Feb-21	15:00	87.2	0.1
8-Feb-21	16:00	90.4	0.2
8-Feb-21	17:00	28.9	0.6
8-Feb-21	18:00	35.1	0.2
8-Feb-21	19:00	81.3	0.1
8-Feb-21	20:00	81.6	0.2
8-Feb-21	21:00	77.1	0.1
8-Feb-21	22:00	225.3	0.1
8-Feb-21	23:00	88.8	0.1
9-Feb-21	0:00	72.0	0.1
9-Feb-21	1:00	83.8	0.1
9-Feb-21	2:00	40.4	0.1
9-Feb-21	3:00	74.2	0.1
9-Feb-21	4:00	74.7	0.3
9-Feb-21	5:00	52.1	0.1
9-Feb-21	6:00	52.3	0.1
9-Feb-21	7:00	46.8	0.1
9-Feb-21	8:00	66.4	0.1
9-Feb-21	9:00	66.1	0.1
9-Feb-21	10:00	225.5	0.1
9-Feb-21	11:00	79.4	0.1
9-Feb-21	12:00	67.1	0.2
9-Feb-21	13:00	71.6	0.2
9-Feb-21	14:00	101.1	0.1
9-Feb-21	15:00	57.0	0.2
9-Feb-21	16:00	197.3	0.1
9-Feb-21	17:00	136.1	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
9-Feb-21	18:00	336.0	0.2
9-Feb-21	19:00	72.1	0.1
9-Feb-21	20:00	71.4	0.1
9-Feb-21	21:00	218.9	0.1
9-Feb-21	22:00	100.6	0.1
9-Feb-21	23:00	91.0	0.1
10-Feb-21	0:00	109.1	0.2
10-Feb-21	1:00	83.8	0.1
10-Feb-21	2:00	59.9	0.1
10-Feb-21	3:00	73.8	0.1
10-Feb-21	4:00	238.4	0.2
10-Feb-21	5:00	60.1	0.1
10-Feb-21	6:00	65.5	0.1
10-Feb-21	7:00	45.9	0.1
10-Feb-21	8:00	89.3	0.1
10-Feb-21	9:00	100.6	0.1
10-Feb-21	10:00	51.9	0.1
10-Feb-21	11:00	204.4	0.1
10-Feb-21	12:00	39.9	0.1
10-Feb-21	13:00	131.6	0.2
10-Feb-21	14:00	117.8	0.2
10-Feb-21	15:00	115.2	0.2
10-Feb-21	16:00	160.6	0.1
10-Feb-21	17:00	264.2	0.5
10-Feb-21	18:00	171.9	0.1
10-Feb-21	19:00	298.0	0.2
10-Feb-21	20:00	305.1	0.2
10-Feb-21	21:00	303.5	0.1
10-Feb-21	22:00	274.8	0.1
10-Feb-21	23:00	260.3	0.1
11-Feb-21	0:00	195.4	0.1
11-Feb-21	1:00	49.6	0.2
11-Feb-21	2:00	90.0	0.1
11-Feb-21	3:00	110.1	0.1
11-Feb-21	4:00	113.8	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
11-Feb-21	5:00	103.7	0.1
11-Feb-21	6:00	107.3	0.1
11-Feb-21	7:00	143.6	0.1
11-Feb-21	8:00	111.8	0.1
11-Feb-21	9:00	103.4	0.1
11-Feb-21	10:00	114.4	0.1
11-Feb-21	11:00	88.4	0.1
11-Feb-21	12:00	78.4	0.1
11-Feb-21	13:00	125.8	0.2
11-Feb-21	14:00	131.8	0.1
11-Feb-21	15:00	168.1	0.1
11-Feb-21	16:00	78.5	0.2
11-Feb-21	17:00	163.5	0.2
11-Feb-21	18:00	118.6	0.1
11-Feb-21	19:00	130.1	0.4
11-Feb-21	20:00	109.3	0.1
11-Feb-21	21:00	112.3	0.1
11-Feb-21	22:00	98.3	0.1
11-Feb-21	23:00	103.4	0.1
12-Feb-21	0:00	109.8	0.1
12-Feb-21	1:00	96.4	0.1
12-Feb-21	2:00	146.6	0.1
12-Feb-21	3:00	144.3	0.1
12-Feb-21	4:00	82.9	0.1
12-Feb-21	5:00	101.5	0.1
12-Feb-21	6:00	109.9	0.1
12-Feb-21	7:00	73.3	0.1
12-Feb-21	8:00	121.2	0.1
12-Feb-21	9:00	98.9	0.1
12-Feb-21	10:00	30.1	0.1
12-Feb-21	11:00	188.9	0.2
12-Feb-21	12:00	190.0	0.1
12-Feb-21	13:00	306.9	0.1
12-Feb-21	14:00	344.8	0.3
12-Feb-21	15:00	136.6	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)
12-Feb-21	16:00	161.2	0.2
12-Feb-21	17:00	151.8	0.1
12-Feb-21	18:00	355.0	1.0
12-Feb-21	19:00	337.5	0.3
12-Feb-21	20:00	348.4	0.5
12-Feb-21	21:00	279.1	0.1
12-Feb-21	22:00	278.6	0.2
12-Feb-21	23:00	199.9	0.3
13-Feb-21	0:00	126.9	0.1
13-Feb-21	1:00	107.4	0.1
13-Feb-21	2:00	193.0	0.1
13-Feb-21	3:00	29.3	0.1
13-Feb-21	4:00	57.8	0.1
13-Feb-21	5:00	191.6	0.1
13-Feb-21	6:00	74.7	0.1
13-Feb-21	7:00	88.3	0.1
13-Feb-21	8:00	101.3	0.1
13-Feb-21	9:00	46.4	0.1
13-Feb-21	10:00	269.3	0.3
13-Feb-21	11:00	326.3	0.7
13-Feb-21	12:00	22.4	0.1
13-Feb-21	13:00	250.2	0.1
13-Feb-21	14:00	136.4	0.1
13-Feb-21	15:00	146.9	0.2
13-Feb-21	16:00	152.9	0.4
13-Feb-21	17:00	104.7	0.2
13-Feb-21	18:00	126.4	0.2
13-Feb-21	19:00	102.9	0.4
13-Feb-21	20:00	102.9	0.4
13-Feb-21	21:00	126.9	0.4
13-Feb-21	22:00	101.2	0.7
13-Feb-21	23:00	66.3	0.2
14-Feb-21	0:00	101.5	0.1
14-Feb-21	1:00	107.6	0.1
14-Feb-21	2:00	100.1	0.1

Date	Time	Wind Direction (°)	Wind Speed (m/s)	
14-Feb-21	3:00	104.6	0.1	
14-Feb-21	4:00	97.4	0.1	
14-Feb-21	5:00	107.7	0.1	
14-Feb-21	6:00	120.1	0.1	
14-Feb-21	7:00	146.2	0.2	
14-Feb-21	8:00	89.8	0.2	
14-Feb-21	9:00	135.4	0.2	
14-Feb-21	10:00	106.6	0.3	
14-Feb-21	11:00	218.1	0.3	
14-Feb-21	12:00	107.2	0.4	
14-Feb-21	13:00	272.4	0.4	
14-Feb-21	14:00	112.1	0.7	
14-Feb-21	15:00	227.1	0.8	
14-Feb-21	16:00	156.8	0.7	
14-Feb-21	17:00	184.5	0.8	
14-Feb-21	18:00	110.3	0.4	
14-Feb-21	19:00	230.9	0.3	
14-Feb-21	20:00	113.1	0.2	
14-Feb-21	21:00	70.9	0.2	
14-Feb-21	b-21 22:00 105.2		0.2	
14-Feb-21	23:00	118.3	0.2	
15-Feb-21	0:00	142.2	0.2	
15-Feb-21	1:00	64.3	0.2	
15-Feb-21	2:00	102.4	0.3	
15-Feb-21	3:00	84.7	0.4	
15-Feb-21	4:00	130.6	0.4	
15-Feb-21	5:00	111.9	0.5	
15-Feb-21	6:00	87.4	0.5	
15-Feb-21	7:00 78.1		0.9	
15-Feb-21	8:00	96.6	0.5	
15-Feb-21	1 9:00 75.1		0.5	
15-Feb-21	21 10:00 176.4		0.4	
15-Feb-21			0.5	
15-Feb-21	5-Feb-21 12:00 175.8		0.5	
15-Feb-21	13:00	115.0	0.6	

Date	Time	Wind Direction (°)	Wind Speed (m/s)
15-Feb-21	p-21 14:00 234.4		0.5
15-Feb-21	15:00	265.9	0.5
15-Feb-21	16:00	160.9	0.4
15-Feb-21	17:00	136.6	0.4
15-Feb-21	18:00	77.0	0.3
15-Feb-21	19:00	169.6	0.3
15-Feb-21	20:00	94.6	0.3
15-Feb-21	21:00	119.4	0.5
15-Feb-21	22:00	127.0	0.5
15-Feb-21	23:00	102.6	0.5
16-Feb-21	0:00	92.6	0.6
16-Feb-21	1:00	86.5	0.6
16-Feb-21	2:00	210.5	0.5
16-Feb-21	3:00	239.5	0.6
16-Feb-21	4:00	11.9	0.5
16-Feb-21	Seb-21 5:00 220.5		0.5
16-Feb-21	6:00	58.1	0.6
16-Feb-21	7:00 94.3		0.6
16-Feb-21	eb-21 8:00 22.1		2.1
16-Feb-21	9:00	50.1	0.9
16-Feb-21	10:00	112.6	1.0
16-Feb-21	11:00	115.0	1.4
16-Feb-21	12:00	74.1	2.2
16-Feb-21	13:00	99.4	1.1
16-Feb-21	14:00	36.9	0.8
16-Feb-21	15:00	367.6	0.6
16-Feb-21	16:00	163.3	0.6
16-Feb-21	17:00	42.9	0.9
16-Feb-21	18:00	116.6	1.0
16-Feb-21	19:00	73.6	0.5
16-Feb-21	20:00	27.3	0.3
16-Feb-21	D-21 21:00 90.1		1.2
16-Feb-21	22:00	68.4	0.7
16-Feb-21	23:00	34.2	0.8
17-Feb-21	0:00	81.7	0.9

Date	Time	Wind Direction (°)	Wind Speed (m/s)	
17-Feb-21	1:00	50.1	1.3	
17-Feb-21	2:00	114.9	0.9	
17-Feb-21	3:00	52.1	0.8	
17-Feb-21	4:00	57.0	0.9	
17-Feb-21	5:00	65.0	0.7	
17-Feb-21	6:00	62.8	1.4	
17-Feb-21	7:00	68.7	1.0	
17-Feb-21	8:00	88.7	0.5	
17-Feb-21	9:00	60.3	1.2	
17-Feb-21	10:00	162.4	0.5	
17-Feb-21	11:00	217.0	0.6	
17-Feb-21	12:00	256.7	2.1	
17-Feb-21	13:00	133.8	0.2	
17-Feb-21	14:00	78.1	1.7	
17-Feb-21	15:00	237.9	0.5	
17-Feb-21	16:00	142.5	0.7	
17-Feb-21	17:00	29.6	0.7	
17-Feb-21	18:00	73.9	0.3	
17-Feb-21	19:00	83.8	0.2	
17-Feb-21	-21 20:00 68.6		0.4	
17-Feb-21	21:00	97.8	0.4	
17-Feb-21	22:00	85.4	0.1	
17-Feb-21	23:00	77.8	0.1	
18-Feb-21	0:00	104.9	0.2	
18-Feb-21	1:00	102.9	0.2	
18-Feb-21	2:00	45.3	0.3	
18-Feb-21	3:00	91.1	0.2	
18-Feb-21	4:00	50.5	0.1	
18-Feb-21	5:00	91.0	0.1	
18-Feb-21	6:00	65.6	0.4	
18-Feb-21	7:00	97.9	0.1	
18-Feb-21	8:00	43.3	0.2	
18-Feb-21	9:00	54.0	0.1	
18-Feb-21	Feb-21 10:00 66.5		0.1	
18-Feb-21	11:00	66.6	0.1	

Date	Time Wind Direction (°)		Wind Speed (m/s)
18-Feb-21	Feb-21 12:00 52.6		0.5
18-Feb-21	13:00	73.3	0.7
18-Feb-21	14:00	92.9	0.3
18-Feb-21	15:00	85.4	0.3
18-Feb-21	16:00	115.3	0.3
18-Feb-21	17:00	213.6	0.2
18-Feb-21	18:00	148.3	0.2
18-Feb-21	19:00	206.3	0.2
18-Feb-21	20:00	135.8	0.2
18-Feb-21	21:00	107.8	0.1
18-Feb-21	22:00	130.3	0.1
18-Feb-21	23:00	98.9	0.1
19-Feb-21	0:00	95.9	0.1
19-Feb-21	1:00	108.6	0.1
19-Feb-21	2:00	97.0	0.1
19-Feb-21	3:00	77.1	0.1
19-Feb-21	4:00	111.5	0.1
19-Feb-21	5:00 146.5		0.1
19-Feb-21	Feb-21 6:00 107.1		0.1
19-Feb-21	7:00	7:00 143.1	
19-Feb-21	8:00	119.0	0.1
19-Feb-21	9:00	96.1	0.1
19-Feb-21	10:00	91.8	0.2
19-Feb-21	11:00	115.9	0.2
19-Feb-21	12:00	103.5	0.1
19-Feb-21	13:00	147.6	0.2
19-Feb-21	14:00	88.4	0.1
19-Feb-21	15:00	244.5	0.2
19-Feb-21	16:00	203.2	0.2
19-Feb-21	17:00	170.1	2.4
19-Feb-21	b-21 18:00 162.6		0.3
19-Feb-21	19:00 93.4		0.3
19-Feb-21			0.2
19-Feb-21	21:00	113.4	0.1
19-Feb-21			0.2

Date	Time	Wind Direction (°)	Wind Speed (m/s)	
19-Feb-21	23:00	126.1	0.1	
20-Feb-21	Feb-21 0:00 108.6		0.1	
20-Feb-21	1:00	96.4	0.1	
20-Feb-21	2:00	120.1	0.1	
20-Feb-21	3:00	84.7	0.1	
20-Feb-21	4:00	62.0	0.1	
20-Feb-21	5:00	99.0	0.1	
20-Feb-21	6:00	89.4	0.1	
20-Feb-21	7:00	75.6	0.1	
20-Feb-21	8:00	80.0	0.1	
20-Feb-21	9:00	100.4	0.1	
20-Feb-21	10:00	80.9	0.1	
20-Feb-21	11:00	116.4	0.1	
20-Feb-21	12:00	114.4	0.1	
20-Feb-21	13:00	176.3	0.1	
20-Feb-21	14:00	88.8	0.2	
20-Feb-21	15:00 143.7		0.2	
20-Feb-21	16:00	114.8	0.3	
20-Feb-21	17:00	97.8	1.2	
20-Feb-21	eb-21 18:00 103.6		0.9	
20-Feb-21	19:00 115.2		0.1	
20-Feb-21	20:00	111.0	0.2	
20-Feb-21	21:00	146.7	0.1	
20-Feb-21	22:00	105.9	0.1	
20-Feb-21	23:00	111.7	0.2	
21-Feb-21	0:00	108.7	0.1	
21-Feb-21	1:00	96.9	0.1	
21-Feb-21	2:00	118.6	0.2	
21-Feb-21	3:00	121.0	0.1	
21-Feb-21	4:00	112.1	0.1	
21-Feb-21			0.3	
21-Feb-21			0.1	
21-Feb-21	7:00 133.0		0.1	
21-Feb-21	8:00 113.9		0.1	
21-Feb-21	9:00	79.3	0.1	

Date	Time Wind Direction (°)		Wind Speed (m/s)	
21-Feb-21	b-21 10:00 77.9		0.1	
21-Feb-21	0-21 11:00 110.6		0.1	
21-Feb-21	12:00	95.9	0.1	
21-Feb-21	13:00	94.1	0.2	
21-Feb-21	14:00	79.6	0.1	
21-Feb-21	15:00	156.8	0.6	
21-Feb-21	16:00	158.1	0.2	
21-Feb-21	17:00	198.4	0.2	
21-Feb-21	18:00	171.7	0.4	
21-Feb-21	19:00	188.9	0.3	
21-Feb-21	20:00	168.1	0.5	
21-Feb-21	21:00	107.4	0.1	
21-Feb-21	22:00	85.2	0.1	
21-Feb-21	23:00	95.2	0.1	
22-Feb-21	0:00	66.6	0.2	
22-Feb-21	1:00	62.6	0.1	
22-Feb-21	2:00	98.5	0.1	
22-Feb-21	3:00	128.9	0.1	
22-Feb-21	4:00	186.7	0.1	
22-Feb-21	1 5:00 97.1		0.1	
22-Feb-21	6:00	186.3	0.1	
22-Feb-21	7:00	230.1	0.1	
22-Feb-21	8:00	230.1	0.1	
22-Feb-21	9:00	230.1	0.2	
22-Feb-21	10:00	231.1	0.2	
22-Feb-21	11:00	304.6	0.1	
22-Feb-21	12:00	319.3	0.1	
22-Feb-21	13:00	92.4	0.1	
22-Feb-21	14:00	313.7	0.2	
22-Feb-21	15:00	182.3	1.2	
22-Feb-21	90.7		0.1	
22-Feb-21	17:00 88.5		0.1	
22-Feb-21	18:00 101.1		0.3	
22-Feb-21	19:00	116.9	0.2	
22-Feb-21	20:00	201.5	0.2	

Date	Time	Wind Direction (°)	Wind Speed (m/s)	
22-Feb-21	21:00	91.5	0.8	
22-Feb-21	22:00	104.4	0.1	
22-Feb-21	1 23:00 81.1		0.5	
23-Feb-21	0:00	95.8	0.2	
23-Feb-21	1:00	72.4	0.2	
23-Feb-21	2:00	136.2	0.1	
23-Feb-21	3:00	76.2	0.5	
23-Feb-21	4:00	89.9	0.3	
23-Feb-21	5:00	105.2	0.2	
23-Feb-21	6:00	98.5	0.1	
23-Feb-21	7:00	101.0	0.1	
23-Feb-21	8:00	66.9	0.1	
23-Feb-21	9:00	88.6	0.1	
23-Feb-21	10:00	90.0	0.1	
23-Feb-21	11:00	91.4	0.9	
23-Feb-21	12:00	84.9	0.2	
23-Feb-21	13:00	58.6	0.5	
23-Feb-21	14:00	91.0	0.4	
23-Feb-21	15:00	74.9	0.8	
23-Feb-21	p-21 16:00 93.5		0.4	
23-Feb-21	17:00	197.5	0.2	
23-Feb-21	18:00	160.1	0.2	
23-Feb-21	19:00	80.5	0.4	
23-Feb-21	20:00	102.5	0.1	
23-Feb-21	21:00	84.6	0.1	
23-Feb-21	22:00	84.5	0.2	
23-Feb-21	23:00	86.2	0.1	
24-Feb-21	0:00	72.1	0.2	
24-Feb-21	1:00 57.0		0.2	
24-Feb-21	2:00	86.5	0.6	
24-Feb-21	3:00 87.4		0.1	
24-Feb-21	4:00 118.8		0.2	
24-Feb-21			0.3	
24-Feb-21			0.1	
24-Feb-21	7:00	92.4	0.2	

Date	Time	Wind Direction (°)	Wind Speed (m/s)	
24-Feb-21	8:00	139.7	0.1	
24-Feb-21	-21 9:00 85.0		0.1	
24-Feb-21	10:00	100.7	0.2	
24-Feb-21	11:00	76.8	0.1	
24-Feb-21	12:00	108.9	0.1	
24-Feb-21	13:00	168.8	0.5	
24-Feb-21	14:00	47.3	0.3	
24-Feb-21	15:00	61.2	0.1	
24-Feb-21	16:00	111.5	0.3	
24-Feb-21	17:00	69.1	0.3	
24-Feb-21	18:00	89.7	0.4	
24-Feb-21	19:00	119.5	0.2	
24-Feb-21	20:00	110.8	0.3	
24-Feb-21	21:00	110.9	0.2	
24-Feb-21	22:00	70.8	0.1	
24-Feb-21	23:00	72.1	0.1	
25-Feb-21	0:00	76.9	0.1	
25-Feb-21	1:00 108.9		0.1	
25-Feb-21	eb-21 2:00 114.5		0.1	
25-Feb-21	3:00	72.1	0.1	
25-Feb-21	4:00	84.8	0.1	
25-Feb-21	5:00	26.4	0.1	
25-Feb-21	6:00	82.3	0.1	
25-Feb-21	7:00	72.3	0.2	
25-Feb-21	8:00	67.0	0.1	
25-Feb-21	9:00	34.9	0.2	
25-Feb-21	10:00	45.6	0.1	
25-Feb-21	11:00	73.0	0.1	
25-Feb-21	12:00	75.5	0.1	
25-Feb-21	13:00	71.3	0.1	
25-Feb-21	1 14:00 87.6		0.1	
25-Feb-21	15:00 95.4		0.1	
25-Feb-21			0.1	
25-Feb-21	17:00 90.6		0.3	
25-Feb-21			0.2	

Date	Time	Wind Direction (°)	Wind Speed (m/s)	
25-Feb-21	19:00	79.2	0.2	
25-Feb-21	p-21 20:00 88.8		0.3	
25-Feb-21	21:00	72.2	0.1	
25-Feb-21	22:00	77.1	0.1	
25-Feb-21	23:00	76.4	0.1	
26-Feb-21	0:00	76.8	0.1	
26-Feb-21	1:00	71.9	0.1	
26-Feb-21	2:00	84.4	0.1	
26-Feb-21	3:00	68.9	0.2	
26-Feb-21	4:00	75.1	0.1	
26-Feb-21	5:00	86.4	0.1	
26-Feb-21	6:00	54.4	0.1	
26-Feb-21	7:00	64.1	0.1	
26-Feb-21	8:00	57.4	0.1	
26-Feb-21	9:00	76.0	0.1	
26-Feb-21	10:00	175.8	0.1	
26-Feb-21	11:00	67.7	0.1	
26-Feb-21	12:00 36.9		0.1	
26-Feb-21	-Feb-21 13:00 69.3		0.2	
26-Feb-21	Feb-21 14:00 292.3		0.1	
26-Feb-21	15:00	15:00 240.9		
26-Feb-21	16:00	79.0	0.2	
26-Feb-21	17:00	230.7	1.4	
26-Feb-21	18:00	284.9	1.9	
26-Feb-21	19:00	235.8	1.0	
26-Feb-21	20:00	272.1	0.4	
26-Feb-21	21:00	260.0	0.1	
26-Feb-21	22:00	109.2	0.2	
26-Feb-21	23:00	70.0	0.1	
27-Feb-21	0:00	67.8	0.1	
27-Feb-21	21 1:00 89.5		0.1	
27-Feb-21	2:00	68.3	0.1	
27-Feb-21	3:00	65.1	0.2	
27-Feb-21			0.1	
27-Feb-21	5:00	91.4	0.1	

Date	Time	Wind Direction (°)	Wind Speed (m/s)
27-Feb-21	-21 6:00 89.3		0.1
27-Feb-21	7:00	96.2	0.1
27-Feb-21	8:00	90.5	0.1
27-Feb-21	9:00	103.7	0.3
27-Feb-21	10:00	87.6	0.2
27-Feb-21	11:00	83.9	0.3
27-Feb-21	12:00	97.0	0.2
27-Feb-21	13:00	82.7	0.2
27-Feb-21	14:00	94.1	0.1
27-Feb-21	15:00	203.1	0.1
27-Feb-21	16:00	107.5	0.4
27-Feb-21	17:00	190.1	0.7
27-Feb-21	18:00	103.2	0.2
27-Feb-21	19:00	158.5	0.2
27-Feb-21	20:00	105.8	0.2
27-Feb-21	21:00	50.1	0.1
27-Feb-21	22:00	74.3	0.1
27-Feb-21	23:00	151.2	0.1
28-Feb-21	0:00	118.8	0.2
28-Feb-21	eb-21 1:00 66.7		0.2
28-Feb-21	2:00	120.7	0.1
28-Feb-21	3:00	70.8	0.3
28-Feb-21	4:00	88.0	0.3
28-Feb-21	5:00	74.3	0.5
28-Feb-21	6:00	92.1	0.9
28-Feb-21	7:00	56.4	0.3
28-Feb-21	8:00	72.8	0.3
28-Feb-21	9:00	92.2	0.1
28-Feb-21	10:00	54.2	0.1
28-Feb-21	11:00	87.6	0.3
28-Feb-21	1 12:00 57.9		0.4
28-Feb-21	13:00	71.7	0.3
28-Feb-21	14:00	87.4	0.5
28-Feb-21	3-Feb-21 15:00 171.3		0.6
28-Feb-21	16:00	123.9	1.1

Date	ate Time Wind Direction (°)		Wind Speed (m/s)
28-Feb-21	8-Feb-21 17:00 206.8		0.1
28-Feb-21	18:00	120.2	0.1
28-Feb-21	19:00	60.3	0.1
28-Feb-21	20:00	94.8	0.2
28-Feb-21	21:00	61.6	0.4
28-Feb-21	22:00	78.0	0.1
28-Feb-21	23:00	87.3	0.1

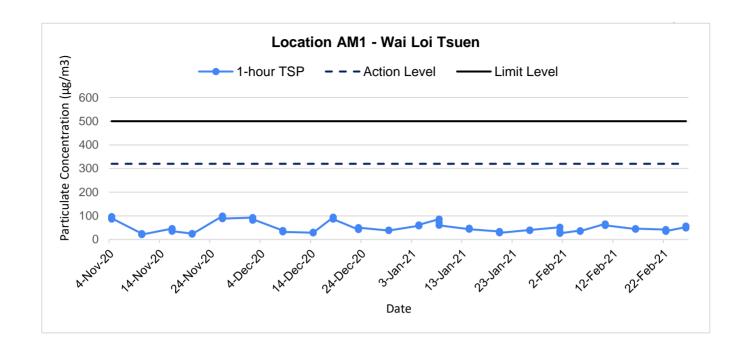
APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

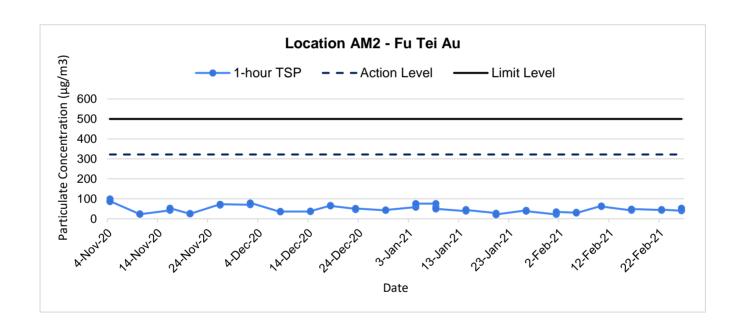
# **Appendix E - 1-hour TSP Monitoring Results**

Location AM1 - Wai Loi Tsuen				
Date	Time	Weather	Particulate Concentration (µg/m³)	
1-Feb-21	10:15	Sunny	52.0	
1-Feb-21	11:15	Sunny	36.0	
1-Feb-21	12:15	Sunny	26.0	
5-Feb-21	9:05	Sunny	37.4	
5-Feb-21	10:05	Sunny	35.2	
5-Feb-21	11:05	Sunny	35.2	
10-Feb-21	9:15	Rainy	66.0	
10-Feb-21	10:15	Rainy	61.6	
10-Feb-21	11:15	Rainy	59.4	
16-Feb-21	9:05	Sunny	44.0	
16-Feb-21	10:05	Sunny	44.0	
16-Feb-21	11:05	Sunny	46.2	
22-Feb-21	9:30	Sunny	41.8	
22-Feb-21	10:30	Sunny	35.2	
22-Feb-21	11:30	Sunny	35.2	
26-Feb-21	9:20	Sunny	52.5	
26-Feb-21	10:20	Sunny	56.7	
26-Feb-21	11:20	Sunny	48.3	
		Average	45.2	
		Maximum	66.0	
		Minimum	26.0	

<b>Location AM2</b>	- Fu Tei Au		
Date	Time	Weather	Particulate Concentration (µg/m³)
1-Feb-21	13:40	Sunny	22.0
1-Feb-21	14:40	Sunny	26.0
1-Feb-21	15:40	Sunny	34.0
5-Feb-21	13:00	Sunny	30.8
5-Feb-21	14:00	Sunny	33.0
5-Feb-21	15:00	Sunny	28.6
10-Feb-21	13:30	Rainy	63.8
10-Feb-21	14:30	Rainy	63.8
10-Feb-21	15:30	Rainy	61.6
16-Feb-21	eb-21 13:20	Sunny	41.8
16-Feb-21	14:20	Sunny	46.2
16-Feb-21	15:20	Sunny	48.4
22-Feb-21	13:41	Sunny	44.0
22-Feb-21	14:41	Sunny	41.8
22-Feb-21	15:41	Sunny	46.2
26-Feb-21	13:25	Sunny	39.9
26-Feb-21	14:25	Sunny	44.1
26-Feb-21	15:25	Sunny	52.5
		Average	42.7
		Maximum	63.8
		Minimum	22.0

### 1-hr TSP Concentration Levels





Title Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Project No. MA19019	CINOTECH
Graphical Presentation of 1-hour TSP Monitoring Results	Appendix E	CINOICCI

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

# **Appendix F - 24-hour TSP Monitoring Results**

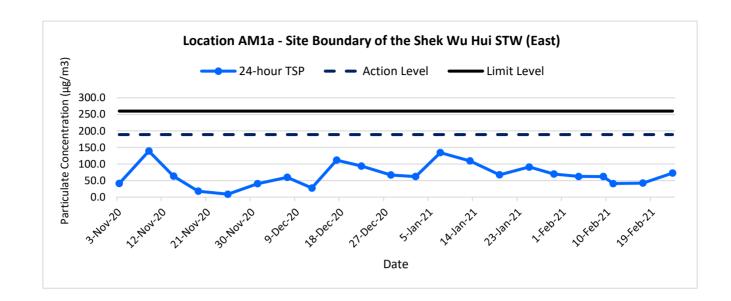
## Location AM1a - Site Boundary of the Shek Wu Hui STW (East)

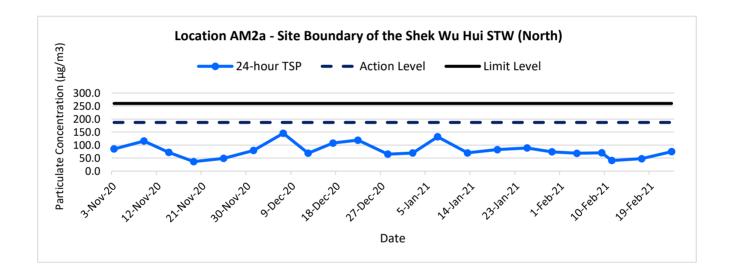
Start Date	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. Flow	Total vol.	Conc.
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	$(m^3)$	$(\mu g/m^3)$
4-Feb-21	Sunny	292.7	766.6	2.6561	2.7652	0.1091	9810.7	9834.7	24.0	1.21	1.21	1.21	1747.2	62.4
9-Feb-21	Rainy	290.5	762.6	2.6363	2.7454	0.1091	9836.8	9860.8	24.0	1.21	1.22	1.21	1749.0	62.4
11-Feb-21	Sunny	290.9	762.6	2.6569	2.7283	0.0714	9860.8	9884.8	24.0	1.21	1.21	1.21	1747.9	40.8
17-Feb-21	Sunny	292.5	767.5	2.6504	2.7243	0.0739	9884.8	9908.8	24.0	1.21	1.22	1.21	1748.8	42.3
23-Feb-21	Sunny	294.0	762.0	2.6773	2.8036	0.1263	9908.8	9932.8	24.0	1.21	1.21	1.21	1739.0	72.6
													Min	40.8
													Max	72.6
													Average	56.1

## 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	e (m³/min.)	Av. Flow	Total vol.	Conc.
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	$(m^3)$	$(\mu g/m^3)$
4-Feb-21	Sunny	292.7	766.6	2.6181	2.7378	0.1197	20004.8	20028.8	24.0	1.22	1.21	1.21	1749.5	68.4
9-Feb-21	Rainy	290.5	762.6	2.6431	2.7662	0.1231	20031.3	20055.3	24.0	1.22	1.22	1.22	1751.1	70.3
11-Feb-21	Sunny	290.9	762.6	2.6509	2.7221	0.0712	20055.3	20079.3	24.0	1.22	1.21	1.22	1750.1	40.7
17-Feb-21	Sunny	292.5	767.5	2.6222	2.7057	0.0835	20079.3	20103.3	24.0	1.21	1.22	1.22	1750.9	47.7
23-Feb-21	Sunny	294.0	762.0	2.6700	2.8004	0.1304	20103.3	20127.3	24.0	1.21	1.21	1.21	1741.7	74.9
													Min	40.7
													Max	74.9
													Average	60.4

### 24-hr TSP Concentration Levels





Title	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Feb 2021	Project No.	MA19019	CINOTECH
	Graphical Presentation of 24-hour TSP Monitoring Results		Appendix	F	CINOTCOT

APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING



Equipment no.: N-12-01

## **Calibration Certificate**

0024993

Customer:

Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street, Shatin, N.T.

Hong Kong

Object 1:

BSWA 308 SLM

Serial No. /Ref. No. :

570183 / 550233

Object 2:

Serial No. /Ref. No. :

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**

+/- 0.2dB 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

Calibration Technician

Mr. K.L. Ng

Quality Manager

Appleone Calibration Laboratory Ltd.

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR

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



Equipment no.: N-12-02

# **Calibration Certificate**

0024995

Customer :: Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Object 1: Serial No. /Ref. No. :

BSWA 308 SLM 570187 / 550841

Object 2:

Serial No. /Ref. No.

Customer Code SVEC09005

Manufacturer:

**BSWAtech** 

Date of calibration:

Hong Kong

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
94.0dB	93.1dB	-0.9dB	+/- 1.5dB	1
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

+/- 0.2dB 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)

the allowable deviation.

Performed by

Mr. K.L. Ng

Approved by

Mr. K.S. Na

Calibration Technician

Quality Manager



Equipment no.: N-12-03

## **Calibration Certificate**

0024996

Customer:

Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street, Shatin, N.T.

Hong Kong

Customer Code:

SVEC09005

Date of calibration:

Date of the recommended re-calibration:

Object 1: Serial No. /Ref. No. :

BSWA 308 SLM 570188 / 550850

Object 2:

Serial No. /Ref. No. :

Manufacturer: **BSWAtech** 

Certificate No.:

0024996

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

07/10/2020

07/10/2021

### 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) | within

the allowable deviation.

Performed by

Calibration Technician

Mr. K.L. Ng

Approved by

Mr. K.S. Ng

Quality Manager

Appleone Calibration Laboratory Ltd.

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR

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



Equipment no.: N-13-01

## **Calibration Certificate**

0025247

Customer:

Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street, Shatin, N.T.

Hong Kong

Customer Code:

Date of calibration:

SVEC09005

05/11/2020

Date of the recommended re-calibration: 05/11/2021

Object 1:

ST-120 sound calibrator

Serial No. /Ref. No.: 181001608

Object 2:

Serial No. /Ref. No. :

Manufacturer: Soundtek

Certificate No.:

0025247

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 allowable deviation.

Performed by

Mr. K.L. Ng

Approved by

Quality Manager

Appleone Calibration Laboratory Ltd.

Calibration Technician

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR

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



Equipment no.: N-13-02

## **Calibration Certificate**

0025249

Customer:

Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street, Shatin, N.T.

Hong Kong

Customer Code: SVEC09005

Date of calibration:

Date of the recommended re-calibration:

05/11/2020 05/11/2021 Object 1:

ST-120 sound calibrator

Serial No. /Ref. No. : 181001636

Object 2:

Serial No. /Ref. No.

Manufacturer: Soundtek

Certificate No.:

0025249

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

79	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 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

Calibration Technician

Mr. K.L. Ng

Approved by

**Quality Manager** 

APPENDIX H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

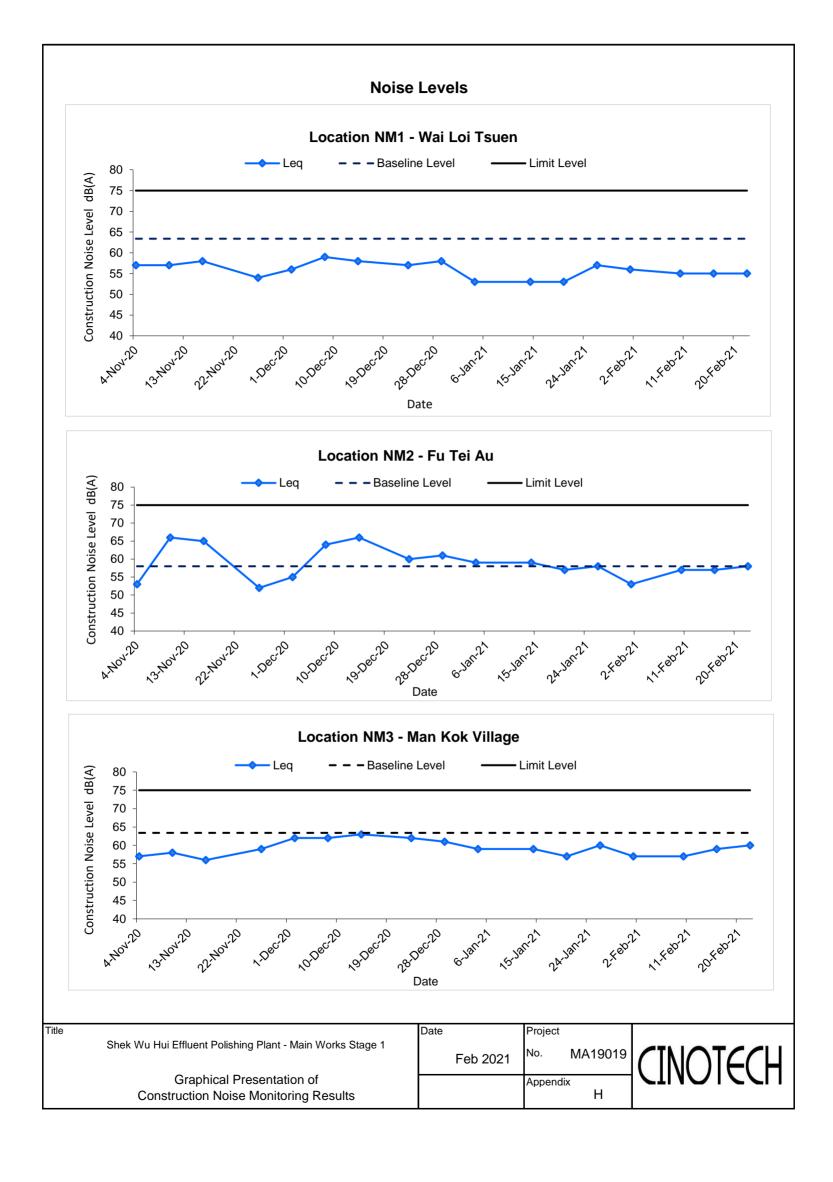
# **Appendix H - Noise Monitoring Results**

## (0700-1900 hrs on Normal Weekdays)

Location NM1 -	Location NM1 - Wai Loi Tsuen										
				Unit: dB (A) (30-min)							
Date	Time	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>				
1-Feb-21	10:20	Sunny	55.7	56.9	52.1	63.4	55.7 Measured ≦ Baseline				
10-Feb-21	13:05	Rainy	54.6	56.8	51.2	63.4	54.6 Measured ≦ Baseline				
16-Feb-21	13:30	Sunny	54.7	56.3	49.6	63.4	54.7 Measured ≦ Baseline				
22-Feb-21	13:10	Sunny	54.9	57.4	50.0	63.4	54.9 Measured ≦ Baseline				

Location NM2 -	Location NM2 - Fu Tei Au										
				Unit: dB (A) (30-min)							
Date	Time	ime Weather	Meas	Measured Noise Level Ba		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>				
1-Feb-21	11:40	Sunny	53.2	53.9	48.4	58.0	53.2 Measured ≦ Baseline				
10-Feb-21	15:25	Rainy	57.3	60.9	51.4	58.0	57.3 Measured ≦ Baseline				
16-Feb-21	15:45	Sunny	56.9	59.1	52.5	58.0	56.9 Measured ≦ Baseline				
22-Feb-21	15:15	Sunny	57.9	60.6	53.6	58.0	57.9 Measured ≦ Baseline				

Location NM3	Location NM3 - Man Kok Village										
					Un	it: dB (A) (30-min)					
Date	Time	me 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>				
1-Feb-21	11:00	Sunny	56.6	58.0	47.5	63.4	56.6 Measured ≦ Baseline				
10-Feb-21	14:00	Rainy	57.1	59.7	53.6	63.4	57.1 Measured ≦ Baseline				
16-Feb-21	14:25	Sunny	59.2	62.8	53.2	63.4	59.2 Measured ≦ Baseline				
22-Feb-21	13:55	Sunny	59.5	60.6	53.7	63.4	59.5 Measured ≦ Baseline				



APPENDIX I ECOLOGICAL MONITORING RESULTS AND ANALYSIS

MA19019 - Ecological Monitoring Result and Analysis

G + 4.65 **	***	Point Count	Transect		
Scientific Name	Common Name	Chinese Name	Waterbird	Abundance	Abundance
Acridotheres cristatellus	Crested Myna	八哥		89	+++++
Anthus hodgsoni	Olive Backed Pipit	樹鷚		8	
Ardea alba	Great Egret	大白鷺	*	21	+
Ardea cinerea	Grey Heron	蒼鷺	*	52	+++
Ardeola bacchus	Chinese Pond Heron	池鷺	*	32	++
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	*	47	++++
Centropus bengaiensis	Lesser Coucal	小鴉鵑		1	
Centropus sinensis	Greater Coucal	褐翅鴉鵑		1	
Ceryle rudis	Pied Kingfisher	斑魚狗	*	0	+
Charadrius dubius	Little Ringed Plover	金眶鴴	*	1	
Copsychus saularis	Magpie Robin	鵲鴝		2	+
Corvus macrorhynchus	Jungle Crow	大嘴烏鴉		2	+
Corvus torquatus	Collared Crow	白頸鴉	*	1	+
Dicrurus macrocercus	Black Drongo	黑卷尾		0	+
Egretta garzetta	Little Egret	小白鷺	*	56	++++
Eudynamys scolopacea	Common Koel	噪鵑		6	+
Garrulax perspicillatus	Masked Laughing Thrush	黑臉噪鶥		8	
Hierococcyx sparverioides	Large Hawk Cuckoo	大鷹鵑		4	+
Hirundo rustica	Barn Swallow	家燕		29	++
Milvus migrans	Black Kite	黑鳶	*	2	+
Motacilla alba	White Wagtail	白鶺鴒		22	+
Myophonus caeruleus	Blue Whistling Thrush	紫嘯鶇		2	
Orthotomus sutorius	Common Tailorbird	長尾縫葉鶯		17	+
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	*	12	+
Phoenicurus auroreus	Daurian Redstart	北紅尾鴝		2	
Phylloscopus fuscatus	Dusky Warbler	褐柳鶯		7	+
Phylloscopus inornatus	Yellow-browed Warbler	黄眉柳鶯		1	
Pica pica	Magpie	喜鵲		4	+
Prinia flaviventris	Yellow-bellied Prinia	黃腹鷦鶯		1	
Pycnonotus jocosus	Crested bulbul	紅耳鵯		39	++
Pycnonotus sinensis	Chinese Bulbul	白頭鵯		16	
Streptopelia chinensis	Spotted Dove	珠頸斑鳩		31	++
Sturnus nigricollis	Black-necked Starling	黑領椋鳥		7	
Zosterops japonicus	Japanese White-eye	暗綠繡眼鳥		13	+
	· -		nt Count Abundance	536	
			Total Waterbirds	224	

\*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.

Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant - Main Work Stage 1		Project No. MA19019	CIN	-	$\epsilon$
Monthly Data Analysis for Ecological Monitoring	Date February 2021	Appendix			

### MA19019 - Waterbird Ecological Monitoring Result

Monitoring Month Feb Season Winter

	Table II : Total Bird Abundance from Point Count										
	Survey	Information	on	Total Bird Abı	ındance from	Point Count					
No.	Date	Time	Tide Level	Individuals Recorded	Total	Species Recorded					
#1	5 Feb 2021	13:00	High	45	114	13					
#1	5 Feb 2021	8:00	Low	69	114	16					
#2	10 Feb 2021	14:00	High	52	155	16					
#2		8:00	Low	103		19					
#3	18 Feb 2021	13:00	High	47	121	14					
#3	18 Feb 2021	8:00	Low	74	121	14					
#4	26 Eab 2021	12:00	High	64	146	18					
#4	26 Feb 2021	8:00	Low	82	146	21					
				Overall Total	536						

	Table III: Total Waterbird Abundance from Point Count									
	Survey	Informatio	n	Numbers of	of Waterbirds					
No.	Date	Time	Tide Level	Individuals Recorded	Total					
#1	5 Feb 2021	13:00	High	16	54					
#1	3 Feb 2021	8:00	Low	38	34					
#2	10 Feb 2021	14:00	High	17	58					
#2	10 Feb 2021	8:00	Low	41	30					
#3	18 Feb 2021	13:00	High	14	50					
#3	16 Feb 2021	8:00	Low	36	50					
#4	26 Feb 2021	12:00	High	27	62					
#4	26 Feb 2021	8:00	Low	35	62					
			•	Overall Total	224					
				Average	56					

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

Baseline Data

Monthly Average Abundance (Feb) 50.44 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 distribution when compared to the baseline monitoring data.
- $H_1$  The data collected does not falls within the normal distribution when compared to the baseline monitoring data.

If t-test value is <u>smaller</u> than the critical value, then rejects  $H_0$ .

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

Crit. Value = -2.353 (95% Confidence Level) Crit. Value = -4.541 (99% Confidence Level)

### Confidence Level

T-values of	Data in Repo	orting Month	95%	99%
A burn dom oo	Monthly	2.152	✓	✓
Abundance	Season	-2.383	×	✓

Overall: 

✓

#### Pamarke.

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

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

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

### MA19019 - Waterbird Ecological Monitoring Result

Monitoring Month Feb Season Winter

Table V: Abundance of Representative Waterbirds from Point Count											
	Recorded Abundance							Baseline Data			
Species Name	Common Name	Chinese Name	5 Feb 2021	10 Feb 2021	18 Feb 2021	26 Feb 2021		Total	Average	Avg (Feb)	Avg (Winter)
Egretta garzetta	Little Egret	小白鷺	16	13	11	16		56	14	12	15
Ardea cinerea	Grey Heron	蒼鷺	14	12	15	11		52	13	16	13
Ardeola bacchus	Chinese Pond Heron	池鷺	6	12	5	9		32	8	8	9
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	4	3	3	2		12	3	9	7
Ardea alba	Great Egret	大白鷺	7	5	4	5		21	5	5	5
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	7	11	12	17		47	12	2	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 distribution when compare to the baseline monitoring data.

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

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

Crit. Value = -2.353 (95% Confidence Level) Crit. Value = -4.541 (99% Confidence Level)

Representative Species			T-value	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	1.939	✓	✓	-0.523	✓	✓	✓
Ardea cinerea	Grey Heron	蒼鷺	-3.012	×	✓	-0.112	✓	✓	✓
Ardeola bacchus	Chinese Pond Heron	池鷺	-0.158	✓	✓	-0.778	✓	✓	✓
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	-13.778	×	×	-10.112	×	×	Limit Level
Ardea alba	Great Egret	大白鷺	1.192	✓	✓	-0.092	✓	✓	✓
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	4.559	✓	✓	3.706	✓	✓	✓

#### Remarks

- $\checkmark$  = T-value falls within the confidence level, the impact monitoring data shows no significant difference to the baseline data.
- 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	CINICICALI
Monthly Data Analysis for Ecological Monitoring	Date February 2021	Appendix I	

APPENDIX J PHOTO RECORDS OF ECOLOGICAL MONITORING

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

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



Sheung Yue River (Taken on 5 Feb 2021)



Ng Tung River (Taken on 18 Feb 2021)



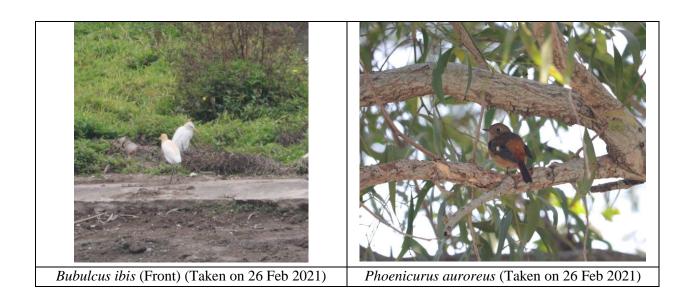
Shek Sheung River (Taken on 18 Feb 2021)

## Part B – Waterbird Species



Ardea alba (left), Ardea cinerea (Middle), Egretta garzetta (Right) (Taken on 26 Feb 2021)





## Part C – Human Activities & Site Conditions



Excavation & Crane (Project-related, taken on 26 Feb 21)



Fishing & Jaywalking (Non-project-related, taken on 26 Feb 21)

#### APPENDIX K SITE AUDIT SUMMARY

Checklist Reference Number	210202
Date	2 February 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.: 210126).	

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

#### Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 Contract No. DC/2018/06

Checklist Reference Number	210210
Date	10 February 2021 (Wednesday)
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.: 210202).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	Ling	10 February 2021
Checked by	Mr. Eric Yan	yty	11 February 2021

Checklist Reference Number	210218
Date	18 February 2021 (Thursday)
Time	9:30 – 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.: 210210).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	Ling	18 February 2021
Checked by	Mr. Eric Yan	yty	19 February 2021

#### Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 Contract No. DC/2018/06

Checklist Reference Number	210223
Date	23 February 2021 (Tuesday)
Time	9:30 – 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.: 210218).	

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

Checklist Reference Number	210202
Date	2 February 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.: 210126).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	Lelvo	2 February 2021
Checked by	Mr. Eric Yan	ryty	3 February 2021

Checklist Reference Number	210210
Date	10 February 2021 (Wednesday)
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.: 210202).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	Lelvo	10 February 2021
Checked by	Mr. Eric Yan	ryty	11 February 2021

Checklist Reference Number	210218
Date	18 February 2021 (Thursday)
Time	9:30 – 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.: 210210).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	Lelvo	18 February 2021
Checked by	Mr. Eric Yan	yty	19 February 2021

Checklist Reference Number	210223
Date	23 February 2021 (Thursday)
Time	9:30 – 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.: 210218).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	Lelno	23 February 2021
Checked by	Mr. Eric Yan	ryty	24 February 2021

Checklist Reference Number	210202
Date	2 February 2021 (Tuesday)
Time	10:00 – 10:30

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.: 210126).	

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

Checklist Reference Number	210209
Date	9 February 2021 (Tuesday)
Time	10:00 – 10:45

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.: 210202).	

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

Checklist Reference Number	210218
Date	18 February 2021 (Thursday)
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.: 210209).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	Lelvo	18 February 2021
Checked by	Mr. Eric Yan	yty	19 February 2021

Checklist Reference Number	210223
Date	23 February 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.: 210218).	

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

Checklist Reference Number	210202
Date	2 February 2021 (Tuesday)
Time	10:00 – 10:30

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.: 210126).	

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

Checklist Reference Number	210209
Date	9 February 2021 (Tuesday)
Time	10:00 – 10:45

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.: 210202).	

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

#### Agreement No. SPW 07/2019 Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 Contract No. DE/2018/04

Checklist Reference Number	210218
Date	18 February 2021 (Thursday)
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.: 210209).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung	Lelvo	18 February 2021
Checked by	Mr. Eric Yan	yty	19 February 2021

Checklist Reference Number	210223
Date	23 February 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.: 210218).	

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

#### APPENDIX L WASTE FLOW TABLE

#### Name of Department: DSD Contract No. DC/2018/06

#### Monthly Summary Waste Flow Table for 2021

	Actua	I Quantities	of Inert C&D	Materials G	enerated Mo	onthly	Actual	Quantities o	f C&D Wastes	Generated	Monthly
		Hard Rock									
Month	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											
Apr											
May											
Jun											
<b>Sub-total</b>	13.737	0.000	0.000	11.127	2.610	0.677	2.120	0.000	0.002	0.000	0.062
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	13.737	0.000	0.000	11.127	2.610	0.677	2.120	0.000	0.002	0.000	0.062

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.

#### Name of Department: DSD Contract No. DC/2018/07

#### Monthly Summary Waste Flow Table for 2021

	Actua		of Inert C&D	Materials G	enerated Mo	onthly	Actual	Quantities o	f C&D Wastes	Generated	Monthly
		Hard Rock						_			
Month	Total	and Large	Reused in	Reused in	Disposed			Paper/			Others, e.g.
WIOIILII	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											
Apr											
May											
Jun											
Sub-total	1.747	0.000	0.000	0.000	1.747	0.677	60.60	0.000	0.002	0.000	0.014
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	1.747	0.000	0.000	0.000	1.747	0.677	60.60	0.000	0.002	0.000	0.014

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: ArchSI	<del>D/CEDD</del> /DSD/ <del>EMSD/HyD/WSD</del>
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# 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 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	13.00T	0	0	0	3.47 T	0	0	0	0	0	0
Mar											
Apr											
May											
June											
Sub-total	13.00T	0	0	0	13.00T	0	0	0	0	0	0
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	13.00T	0	0	0	13.00T	0	0	0	0	0	0

Name of Department: DSD Contract No.: <u>DE/2018/04</u>

#### 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 Ge	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											
Apr											
May											
June											
Sub-total	406.14	0	100	0	306.14	0	0	0	0	0	5.17
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	406.14	0	100	0	306.14	0	0	0	0	0	5.17

Name of Department: DSD Contract No.: <u>DE/2018/04</u>

	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 '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)
800	0	200	0	600	0	0	5	0	0	30

Notes:

- The performance targets are given in PS Clause 6.21.8(14).
   The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
   Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

#### APPENDIX M EVENT AND ACTION PLANS

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

E4		Ac	etion	
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>

Event		Ac	tion	
Event	ET	IEC	ER	Contractor
Limit level being exceeded by one sampling	arrange meeting with IEC and ER;  8. If exceedance stops, cease additional monitoring.  1. Identify source, investigate the causes of exceedance and propose remedial measures;  2. Inform Contractor, IEC, ER, and EPD;  3. Repeat measurement to confirm finding;  4. Increase monitoring frequency to daily;  5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	<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>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</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>
Limit level being exceeded by two or more consecutive	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> </ol>	Discuss amongst ER, ET, and     Contractor on the potential     remedial actions;      Review Contractor's	Confirm receipt of     notification of exceedance in     writing;      Notific Contractors	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within three</li> </ol>
sampling	3. Repeat measurement to confirm findings;	remedial actions whenever	<ul><li>2. Notify Contractor;</li><li>3. In consolidation with the</li></ul>	working days of notification;

E4		Action		
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. I	Ensure remedial measures	problem still not under
	procedures to determine	implementation of remedial	properly implemented;	control;
	possible mitigation to be	measures. 5. 1	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	i	instruct the Contractor to	abated.
	remedial actions to be taken;	S	stop that portion of work	
	7. Assess effectiveness of	ı	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.			

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

F. 4		Action	
Event	ET	IEC ER	Contractor
Action Level	1. Notify IEC and Contractor;	Review the analysed results     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	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;

Errond		Act	tion	
Event	ET	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.			

Table M-3 Event/Action Plan for Ecology

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-4 Event/Action Plan for Landscape and Visual

Event	Action						
	ET	IEC	ER	Contractor			
Non-conformity	1. Inform the Contractor, IEC and	1. Check inspection report;	1. Confirm receipt of	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.				

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
<b>Air Quality Imp</b>							
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, Stage 2 and Stage 3	Air Pollution Control Ordinance (APCO) and Air Pollution Control (Construction Dust) Regulation	۸
	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;						۸
	Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;						۸
	A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;						۸
	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

1

Cinotech

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;		Contractor	Work Sites	Construction phase of Main Works Stage 1,	Air Pollution Control Ordinance (APCO) and Air Pollution	۸
	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;				Stage 2 and Stage 3	Control (Construction - Dust) Regulation	۸
	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

2

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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		
S3.2.1.1	wooden frames barrier with a small-cantilevered upper portion of superficial density not less than 14kg/m² 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		To minimize construction noise impact arising from	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, NCO	۸
		the Project at the affected NSRs					۸
	Mobile plant, if any, should be sited as far away from NSRs as possible.					۸	
	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

3

Cinotech

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
<b>Ecological Impac</b>					T	T	
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	۸
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;				Suige 3		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;						۸
	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

4

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	EIAO-TM	۸
	Adequate lateral support should be erected where necessary in order to prevent soil/mud from slipping into water bodies;				Stage 3		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;						۸
	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;						۸
	Vehicle wheel washing facilities at construction sites' exit points should be established and used, where necessary						۸

EM&A Ref.	o O	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 I	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	۸
\$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.	~	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	۸
	Notices should be posted at conspicuous locations to remind the workers 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						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
Waste Managen					1		
S6.2.2.1	responsible for the implementation of good site practices, arrangements for	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;						۸
	Provision of sufficient waste disposal points and regular collection for disposal;						۸
	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;						۸
	An Environmental Management Plan (EMP) should be prepared by the contractor and submitted to the Supervisor for approval.						۸
S6.2.3.1	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;				and Stage 3		۸
	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;						۸
	Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); and						۸
	Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.						۸

7

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	۸
	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		^
	Different locations should be designated to stockpile each material to enhance reuse.						۸
S6.2.4.2	Remove waste in timely manner;	Minimize waste	Contractor	Work Sites	Construction	WDO	٨
	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 Stage 3		۸
	Obtain relevant waste disposal permits from the appropriate authorities						۸
	Disposal of waste should be done at licensed waste disposal facilities.	1					^
S6.2.5.2	Maintain temporary stockpiles and reuse excavated fill material for backfilling;	Minimize waste impacts from	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
	Carry out on-site sorting;	excavated and C&D materials					۸
	Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;						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.						۸
\$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		Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	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
S6.2.5.3		Minimize waste impacts from building demolition and new building construction	Contractor	Work Sites	Works Stage 1, Stage 2 and	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	^
	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
S6.2.5.4	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) Regulation.	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	construction and chemical wastes.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General) Regulation	^ ^

EM&A Ref.		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 \							
S7.3.1.1	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
	With regard to topsoil, where identified, it should be stripped, treated 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.	Visua					N/A
\$7.3.2.1	The free free free free free free free fr	Protect and Preserve Trees	Designer / Contractor	Work Sites		ETWB TCW No. 29/2004 and DEVB TC(W) No.7/2015	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
\$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	^
\$7.3.2.1	MM6 - Slope Landscaping 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.  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.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure manmade 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	es and shrubs Contractor vot due to the	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 Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii are suggested.						N/A
S7.3.2.1	MM9 - Vertical Greening Planting of climbers to grow up vertical surfaces were appropriate.	Soften hard surfaces and facilities	Designer / Contractor	On appropriate structures		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	phase and	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	Along roads, around suitable built structures, or around VSRs to contain their view out to the structures.	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.		Designer	Work Sites	Construction phase		^
\$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	1&A Programme under FEP-02/474/2013
۸	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;
X	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**: February 2021

Log Ref.	Location	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
				<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> </ul>	
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>Installed additional sedimentation tanks and wastewater treatment system to increase the on-site treatment capacity</li> <li>Clean the slurry sediment released</li> </ul>	Complaint Investigation Report (CIR) was submitted in April 2020
			mamores and roar drams nourcy	from the outlet regularly by suction trucks	
				Avoid damage of underground drains and pipes caused by existing construction works	
				Avoid illegal discharge from the Site into foul drains and manholes	

# 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

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

**Remarks**: 1 environmental complaint was received in the reporting period.

No 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:** February 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.

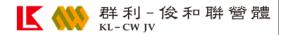
APPENDIX Q TENTATIVE CONSTRUCTION PROGRAMME

### Updated Programme (Status Date: 28/02/2021)



אט וז	ask Name	Duration	Start	Finish	Actual Start	Actual Finish Total Slack	rredecessors	Successors % Time Comple Allov	
С	Contract Dates	1956 days	Mon 16/9/19	Wed 22/1/25	Mon 16/9/19	NA 0 days		36%	16/9
	Starting Date	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19			4,5FS+181 days,( 100%	♦ 16/9
	Access Date (cal. day)	180 days	Mon 16/9/19	Sat 14/3/20	Mon 16/9/19		-	100%	16/9 14/3
	Portion A-1	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19			100%	♦ 16/9
	Portion A-2	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2FS+181 days	100%	♦ 16/9
	Portion C-1A	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2	100%	♦ 16/9 46 P
	Portion C-1B	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2	100%	♦ 16/9 46/0
	Portion C-2A	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2	100%	♦ 16/9 46/0
	Portion C-2B	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2	100%	♦ 16/9 46/0
	Portion C-2C	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2	100%	♦ 16/9
	Portion C-2D	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2	100%	♦ 16/9 46 P
	Portion C-3	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	_	100%	♦ 16/9 46 P
	Portion C-4	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,		100%	♦ 16/9 46/0
	Portion C-5	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		_	100%	♦ 16/9 • 14/2
	Portion C-6	0 days	Sat 14/3/20	Sat 14/3/20	Sat 14/3/20		2FS+181 days	442,417 100%	♦ 14/3
	Works Area WAO A	1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,		100%	16/9 16/9
	Works Area WA2-A	1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19		2	100%	16/9 16/9
	Key Date (cal. day)		Tue 17/9/19	Wed 5/1/22	Tue 17/9/19		200.1	45%	17/9
	KD1A (525 days after starting date)	525 days	Tue 17/9/19	Mon 22/2/21	Tue 17/9/19		2FS+1 day	63%	◆ 22/2
	KD2A (660 days after starting date)	660 days	Tue 17/9/19	Wed 7/7/21	Tue 17/9/19		2FS+1 day	50%	♦ 7/7 • 25/0
	KD3A (740 days after starting date)	740 days	Tue 17/9/19	Sat 25/9/21	Tue 17/9/19	,	2FS+1 day	42%	♦ 25/9 • 13/0
	KD3B (725 days after starting date)	727 days	Tue 17/9/19	Sun 12/9/21	Tue 17/9/19	,	2FS+1 day	42%	♦ 12/9 • 7/10
	KD3C (750 days after starting date)	752 days	Tue 17/9/19	Thu 7/10/21	Tue 17/9/19	,	2FS+1 day	41%	♦ 7/10
	KD3D (660 days after starting date)	660 days	Tue 17/9/19	Wed 7/7/21	Tue 17/9/19	,	2FS+1 day	47%	♦ 7/7
	KD3E (840 days after starting date)	842 days	Tue 17/9/19	Wed 5/1/22	Tue 17/9/19	,	2FS+1 day	37%	♦ 5/1
	Completion Date (cal. day)		Tue 17/9/19	Wed 22/1/25	Tue 17/9/19		050.4.4	29%	17/9
	Section 1 of Works (675 days after starting date)	675 days	Tue 17/9/19	Thu 22/7/21	Tue 17/9/19	,	2FS+1 day	82%	<b>♦ 22/7</b>
	Section 2 of Works (1,295 days after starting date)	1295 days	Tue 17/9/19	Mon 3/4/23	Tue 17/9/19		2FS+1 day	25%	♦ 3/4 • 10/10
	Section 3 of Works (1,120 days after starting date)		Tue 17/9/19	Mon 10/10/22	Tue 17/9/19	,	2FS+1 day	28%	♦ 10/10
	Section 4 of Works (900 days after starting date)	900 days	Tue 17/9/19	Fri 4/3/22	Tue 17/9/19	,	2FS+1 day	35%	<b>♦</b> 4/3
	Section 5 of Works (1,590 days after starting date)	1590 days	Tue 17/9/19	Tue 23/1/24	Tue 17/9/19	,	2FS+1 day	32,33 20%	<b>♦ 23/1</b>
	Defect Liability Period	365 days	Wed 24/1/24	Wed 22/1/25	NA		31	0%	◆ 2 <sup>2</sup>
	Soft Landscape Establishment Works	365 days	Wed 24/1/24	Wed 22/1/25	NA			0%	◆ 22
	Planned Completion - Key Date (cal. day)	255 days	Mon 27/9/21	Thu 9/6/22	NA			0%	27/9 9/6
KD1A	KD1A (525 days after starting date)	0 days	Mon 27/9/21	Mon 27/9/21	NA	,		0%	♦ 27/9
KD2A	KD2A (660 days after starting date)	0 days	Sat 5/3/22	Sat 5/3/22	NA			0%	♦ 5/3
KD3A	KD3A (740 days after starting date)	0 days	Thu 3/3/22	Thu 3/3/22	NA			0%	♦ 3/3
KD3B	KD3B (725 days after starting date)	0 days	Wed 9/3/22	Wed 9/3/22	NA			0%	♦ 9/3
KD3C	KD3C (750 days after starting date)	0 days	Wed 15/12/21	Wed 15/12/21	NA	, .		0%	<b>♦</b> 15/12
KD3D	KD3D (660 days after starting date)	0 days	Fri 22/10/21	Fri 22/10/21	NA			0%	♦ 22/10
KD3E	KD3E (840 days after starting date)	0 days	Thu 9/6/22	Thu 9/6/22	NA		86FF	0%	404
	Planned Completion - Section of the Works (cal. day)	1155 days	Tue 18/1/22	Tue 18/3/25	NA		0.455	0%	18/1
SW1	Section 1 of Works (675 days after starting date)	0 days	Tue 18/1/22	Tue 18/1/22	NA			0%	♦ 18/1 ♦ 29/4
SW2	Section 2 of Works (1,295 days after starting date)	0 days	Sat 29/4/23	Sat 29/4/23	NA NA			0%	♦ 29/4 ♦ 22/7
SW3	Section 3 of Works (1,120 days after starting date) Section 4 of Works (900 days after starting date)	0 days	Fri 22/7/22	Fri 22/7/22	NA NA				♦ 22/7 ♦ 25/7
SW4 SW5	, , , , , , , , , , , , , , , , , , , ,	0 days	Mon 25/7/22	Mon 25/7/22 Mon 18/3/24	NA NA			488 0% 48,49 0%	
CVVC	Section 5 of Works (1,590 days after starting date)	0 days	Mon 18/3/24	Tue 18/3/25	NA NA	,		48,49 0% 0%	♥ 10/3
	Defect Liability Period	365 days	Mon 18/3/24		NA NA				
	Soft Landscape Establishment Works Delaying Events Other than Change of Works Information	365 days	Mon 18/3/24 Thu 3/6/21	Tue 18/3/25 Mon 18/3/24	NA NA			0%	3/6
U	Inclement Weather to KD1A	828.5 days	_	Mon 18/3/24 Mon 27/9/21	NA NA	•		0%	16/5
		86.5 days	Wed 16/6/21		NA NA	,	56	53 0%	16/6 27/9
'D1 A	Delay and Disruption of Works before Feb 2021	85.5 days	Wed 16/6/21	Sat 25/9/21	NA NA	,			25/9   27/9
(D1A	Delay and Disruption of Works for the month of Feb 2021  Other Events affected to KD1A	1 day	Sat 25/9/21	Mon 27/9/21	NA NA	,	JŁ	35FF 0% 0%	3/6 <sub>M</sub> 15/6
		10 days	Thu 3/6/21	Tue 15/6/21		,	245 242 212		3/6   9/6
	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	6 days	Thu 3/6/21	Wed 9/6/21	NA	NA -176.5 days	243,243,213	56 0%	3/U   3/U
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Thu 10/6/21	Tue 15/6/21	NA	. NA -176.5 days	55	52 0%	10/6   15/6
	Inclement Weather to KD2A	89.5 days	Mon 15/11/21	Sat 5/3/22	NA			0%	15/11 5/3
	Delay and Disruption of Works before Feb 2021	88.5 days	Mon 15/11/21	Fri 4/3/22	NA	,	62	59 0%	15/11 4/3
CD2A	Delay and Disruption of Works for the month of Feb 2021	1 day	Fri 4/3/22	Sat 5/3/22	NA	,	58	36FF 0%	4/3   5/3
	Other Events affected to KD2A	10 days	Wed 3/11/21	Sat 13/11/21	NA	NA -197.5 days		0%	3/11 📊 13/11
	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	6 days	Wed 3/11/21	Tue 9/11/21	NA	NA -197.5 days	517,518,515,513,51	12,462 0%	3/11   9/11
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Wed 10/11/21	Sat 13/11/21	NA	NA -197.5 days	61	58 0%	10/11   13/11
	Inclement Weather to KD3A	89.5 days	Fri 12/11/21	Thu 3/3/22	NA	NA -127.5 days		0%	12/11 3/3
	Delay and Disruption of Works before Feb 2021	88.5 days	Fri 12/11/21	Wed 2/3/22	NA		68	65 0%	12/11 2/3
CD3A	Delay and Disruption of Works for the month of Feb 2021	1 day	Wed 2/3/22	Thu 3/3/22	NA			37FF 0%	2/3   3/3
	Other Events affected to KD3A Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	10 days 6 days	Mon 1/11/21 Mon 1/11/21	Thu 11/11/21 Sat 6/11/21	NA NA	NA -127.5 days		<b>0%</b> 68 0%	1/11    11/11 1/11    6/11
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Mon 8/11/21	Thu 11/11/21	NA	· ·		64 0%	8/11   11/11
	Laboration of Markovic (POP	20.5	TI. 40/41/21	14/ 10/0/22		A14 211 = 1		***	40/44 0/0
	Inclement Weather to KD3B	89.5 days	Thu 18/11/21	Wed 9/3/22	NA	,	70	0%	18/11 9/3
KD3B	Delay and Disruption of Works before Feb 2021	88.5 days	Thu 18/11/21	Tue 8/3/22	NA NA	,		71 0% 38FF 0%	18/11 8/3
	Delay and Disruption of Works for the month of Feb 2021	1 day	Tue 8/3/22	Wed 9/3/22	NA	NA -144 P dave		38EE (19/s)	8/3   9/3

Updated Programme (Status Date: 28/02/2021)



KD Tas	N Marie	Duration	Start	Finish	Actual Start	Actual Finish Total Slack Predeces	ors Successors	% Time Risk Comple Allowance	2019   2020   2021   2022   2023   2024   2025   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3
(	Other Events affected to KD3B	4 days	Sat 13/11/21	Wed 17/11/21	NA 			0%	13/11 1 17/11
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Sat 13/11/21	Wed 17/11/21	NA	NA -144.5 days 293,294	70	0%	13/11   17/11
ı	nclement Weather to KD3C	89.5 days	Mon 30/8/21	Wed 15/12/21	NA NA	NA -59.5 days		0%	30/8 15/12
	Delay and Disruption of Works before Feb 2021	88.5 days	Mon 30/8/21	Tue 14/12/21	NA NA	,	76	0%	30/8 14/12
03C	Delay and Disruption of Works for the month of Feb 2021	1 day	Tue 14/12/21	Wed 15/12/21	NA NA		39FF	0%	14/12   15/12
(	Other Events affected to KD3C	4 days	Wed 25/8/21	Sat 28/8/21	NA NA			0%	25/8 28/8
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Wed 25/8/21	Sat 28/8/21	NA NA	NA -59.5 days 306,307	75	0%	25/8   28/8
ı	nclement Weather to KD3D	89.5 days	Tue 6/7/21	Fri 22/10/21	NA NA	NA -88.1 days		0%	6/7 22/10
	Delay and Disruption of Works before Feb 2021	88.5 days	Tue 6/7/21	Thu 21/10/21	N/	NA -88.1 days 83	81	0%	6/7 21/10
D3D	Delay and Disruption of Works for the month of Feb 2021	1 day	Thu 21/10/21	Fri 22/10/21	NA	NA -88.1 days 80	40FF	0%	21/10   22/10
(	Other Events affected to KD3D	4 days	Wed 30/6/21	Tue 6/7/21	NA NA	,		0%	30/6 🛮 6/7
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Wed 30/6/21	Tue 6/7/21	NA	NA -88.1 days 334FF,335F	80	0%	30/6 [ 6/7
1	nclement Weather to KD3E	89.5 days	Thu 17/2/22	Thu 9/6/22	NA NA	NA -124.5 days		0%	17/2 9/6
	Delay and Disruption of Works before Feb 2021	88.5 days	Thu 17/2/22	Wed 8/6/22	NA NA	NA -124.5 days 88	86	0%	17/2 8/6
D3E	Delay and Disruption of Works for the month of Feb 2021	1 day	Wed 8/6/22	Thu 9/6/22	N/	NA -124.5 days 85	41FF	0%	8/6   9/6
(	Other Events affected to KD3E	4 days	Sat 12/2/22	Wed 16/2/22	N/A	NA -124.5 days		0%	12/2 🛮 16/2
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Sat 12/2/22	Wed 16/2/22	NA	NA -124.5 days 354,348,392	397,412,485	0%	12/2   16/2
ı	nclement Weather to Section 1 of the Works	86.5 days	Tue 5/10/21	Tue 18/1/22	NA NA	NA -147.5 days		0%	5/10 18/1
	Delay and Disruption of Works before Feb 2021	85.5 days	Tue 5/10/21	Mon 17/1/22	NA NA		91	0%	5/10 17/1
V1	Delay and Disruption of Works for the month of Feb 2021	1 day	Mon 17/1/22	Tue 18/1/22	NA NA	,	43FF	0%	17/1   18/1
(	Other Events affected to Section 1 of the Works	10 days	Tue 21/9/21	Mon 4/10/21	NA NA			0%	21/9 👔 4/10
	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	6 days	Tue 21/9/21	Tue 28/9/21	N/A	NA -147.5 days 247,246,439	94	0%	21/9 28/9
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Wed 29/9/21	Mon 4/10/21	NA NA	NA -147.5 days 93	90	0%	29/9 4/10
I	nclement Weather to Section 2 of the Works	89.5 days	Sat 7/1/23	Sat 29/4/23	NA NA	NA -18.5 days		0%	7/1 29/4
	Delay and Disruption of Works before Feb 2021	88.5 days	Sat 7/1/23	Fri 28/4/23	NA NA	,	97	0%	7/1 28/4
V2	Delay and Disruption of Works for the month of Feb 2021	1 day	Fri 28/4/23	Sat 29/4/23	NA NA	NA -18.5 days 96	44FF	0%	28/4   29/4
(	Other Events affected to Section 2 of the Works	10 days	Fri 23/12/22	Fri 6/1/23	NA	NA -18.5 days		0%	23/12 🛍 6/1
	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	6 days	Fri 23/12/22	Sat 31/12/22	NA	NA -18.5 days 520,535,52	523,534 100	0%	23/12 31/12
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Tue 3/1/23	Fri 6/1/23	NA NA	NA -18.5 days 99	96	0%	3/1   6/1
ı	nclement Weather to Section 3 of the Works	89.5 days	Thu 31/3/22	Fri 22/7/22	NA NA	NA 65.5 days		0%	31/3 22/7
	Delay and Disruption of Works before Feb 2021	88.5 days	Thu 31/3/22	Thu 21/7/22	NA NA	NA 65.5 days 106	103	0%	31/3 21/7
N3	Delay and Disruption of Works for the month of Feb 2021	1 day	Thu 21/7/22	Fri 22/7/22	NA NA	NA 65.5 days 102	45FF	0%	21/7   22/7
(	Other Events affected to Section 3 of the Works	10 days	Sat 19/3/22	Wed 30/3/22	NA NA	,		0%	19/3 🛮 30/3
	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	6 days	Sat 19/3/22	Fri 25/3/22	N/A	NA 65.5 days 308,309,336	337,276,1106	0%	19/3   25/3
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Sat 26/3/22	Wed 30/3/22	NA NA	NA 65.5 days 105	102	0%	26/3   30/3
I	nclement Weather to Section 4 of the Works	89.5 days	Sat 2/4/22	Mon 25/7/22	NA NA			0%	2/4 25/7
	Delay and Disruption of Works before Feb 2021	88.5 days	Sat 2/4/22	Sat 23/7/22	NA		109	0%	2/4 23/7
V4	Delay and Disruption of Works for the month of Feb 2021	1 day	Sat 23/7/22	Mon 25/7/22	NA	,	46FF	0%	23/7   25/7
(	Other Events affected to Section 4 of the Works	10 days	Tue 22/3/22	Fri 1/4/22	NA	,		0%	22/3 11 1/4
	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	6 days	Tue 22/3/22	Mon 28/3/22	NA	NA -113.5 days 373,378,478	475,476,4112	0%	22/3   28/3
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Tue 29/3/22	Fri 1/4/22	N/A	NA -113.5 days 111	108	0%	29/3   1/4
I	nclement Weather to Section 5 of the Works	89.5 days	Tue 28/11/23	Mon 18/3/24	NA NA	NA -43.5 days		0%	28/11 18/3
	Delay and Disruption of Works before Feb 2021	88.5 days	Tue 28/11/23	Sat 16/3/24	NA	,	115	0%	28/11 16/3
V5	Delay and Disruption of Works for the month of Feb 2021	1 day	Sat 16/3/24	Mon 18/3/24	NA NA	,	47FF	0%	16/3   18/3
(	Other Events affected to Section 5 of the Works	10 days	Thu 16/11/23	Mon 27/11/23	NA	,		0%	16/11 11 27/11
	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	6 days	Thu 16/11/23	Wed 22/11/23	NA NA			0%	16/11   22/11
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days	Thu 23/11/23	Mon 27/11/23	NA Nama 4 C/O/46	,	114	0%	23/11   27/11
	omissions (cal. day)	1590 days	Mon 16/9/19	Mon 22/1/24	Mon 16/9/19			69%	16/9 22/1 16/9 3/8
	Subletting Package  Propage & Submit Subletting Procedures	1418 days		Thu 3/8/23 Mon 16/9/19	Mon 16/9/19	•	122	<b>84%</b> 100%	16/9 3/8 16/9 16/9
	Prepare & Submit Subletting Procedures PM Review & Accept Subletting Procedures	1 day 21 days	Mon 16/9/19 Mon 16/9/19	Mon 76/9/19 Mon 7/10/19	Mon 16/9/19 Mon 16/9/19	·	124,126,123,125		16/9 7/10
	Subletting for Preliminary Works (Instrumentation Monitoring etc.)	30 days	Mon 7/10/19	Wed 6/11/19	Mon 7/10/19	,	124,120,123,123	100%	7/10 6/11
	Subletting for Drainage Diversion Works for UV System no.1& Effluent Pumping Station No.1 (NCE no.	,	Tue 8/10/19	Wed 0/11/19	Tue 8/10/19	,	435	100%	8/10 20/11
	Subletting for the Temporary Site accommodation	114 days	Tue 22/10/19	Wed 12/2/20	Tue 22/10/19	•	213	100%	22/10 12/2
	Subletting for Pre-drilling Works (NCE no.3)	52 days	Tue 8/10/19	Thu 28/11/19	Tue 8/10/19		127SS+15 days,		8/10 28/11
	Subletting for Pre-bored Socketed Steel H-Pile	13.98 days	Fri 13/12/19	Fri 3/1/20	Fri 13/12/19	,	•		13/12    3/1
	Subletting for Contractor's Designer for Temporary Works (NCE no.3)	32 days	Fri 25/10/19	Wed 27/11/19	Fri 25/10/19	·			25/10 27/11
	Subletting for Independent Checking Engineer (NCE no.3)	27 days	Wed 30/10/19	Mon 25/11/19	Wed 30/10/19	·	231,261,271,288		30/10 = 25/11
	Subletting for Sheetpile and ELS Works	58 days	Wed 8/1/20	Fri 20/3/20	Wed 8/1/20	·	231,261,271,288		8/1 20/3
	Subletting for R.C Works	60 days	Mon 1/6/20	Thu 30/7/20	Mon 1/6/20	·	289,306,320,506		1/6 30/7
	Subletting for External Waterproofing	60 days	Mon 6/7/20	Thu 3/9/20	Mon 6/7/20	·	236,239,242,262		6/7 3/9
	Subletting for ABWF & BS Works Subletting for External Works including pincuraris and road works for LIV System as 1 (Diversion)	60 days	Mon 4/1/21	Thu 4/3/21	Thu 20/2/20	,	247,276,296,309		4/1 1/3
	Subletting for External Works including pipeworks and road works for UV System no.1 (Diversion)	12 days	Thu 20/2/20	Mon 2/3/20	Thu 20/2/20	Mon 2/3/20 0 days 122	435,135	100%	20/2 2/3
	Subletting for Drainage and Pipe works at UV System no.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
		22 days	Wed 15/4/20	Wed 6/5/20	Wed 15/4/20	·	478,475,476,477		15/4 <b>6</b> /5

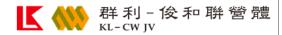
Updated Programme (Status Date: 28/02/2021)

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



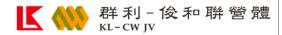
KD 18	ask Name	Duration	Start	Finish	Actual Start	Actual Finish	ı otal Slack	K Predecessors		% Time Risk Comple Allowance	2019   2020   2020   Q1   Q2   Q3   Q4   Q1   Q2   Q3   Q4   Q1	21   2022   2023   2024   2025   Q2   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q2   Q3   Q4   Q1
'	Subletting for trenchless construction	7 days	Wed 22/4/20	Tue 28/4/20	Wed 22/4/20	Tue 28/4/20	0 days	122	442	100%	22/4   28/4	
	Subletting for Traffic Management Consultant	43 days	Thu 9/1/20	Thu 20/2/20	Thu 9/1/20	Thu 20/2/20	0 days	122	151	100%	9/1 20/2	
	Subletting for Hard Landscape and Soft Landscape	60 days	Mon 5/6/23	Thu 3/8/23	NA	NA NA	104 days	122	489	0%		5/6 3/8
	Statutory Submission, Submission & Approval	1590 days	Mon 16/9/19	Mon 22/1/24	Mon 16/9/19	NA NA	1 day			62%	16/9	22/1
	Prepare and Submit Subcontractor Management Plan (SMP)	1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2	253	100%	16/9 16/9	
	Prepare and Submit Interface Management Plan	60 days	Mon 16/9/19	Thu 6/8/20	Mon 16/9/19		0 days	2	253	90%	16/9	
	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		16.4 days	2	213	90%	20/9	
	r repaire, submit a approve the layout plan of the Temporary one accommodation	o i days	11120/3/13	1110 0/0/20	11120/3/13	, INA	10.4 days	_	210	30 /0		
	Prepare, submit & accept the ELS design for deep excavation	207 days	Thu 24/10/19	Sun 21/6/20	Thu 24/10/19	Sun 21/6/20	0 days	128	231,261,271,288,	100%	24/10 21/6	
	Prepare, submit & accept the Method Statement for Drainage Diversion Works	57 days	Tue 21/4/20	Tue 16/6/20	Tue 21/4/20	Tue 16/6/20	0 days	2	146,435	100%	21/4 16/6	
	PM approve the Method Statement for Drainage Diversion Works	13 days	Wed 17/6/20	Mon 29/6/20	Wed 17/6/20	Mon 29/6/20	0 days	145	435	100%	17/6 29/6	
	TTA Management	348 days	Mon 16/9/19	Fri 28/8/20	Mon 16/9/19	NA NA	193.5 days			85%	16/9	
	Excavation Permit Application for San Wan Road (Portion A)	288 days	Mon 16/9/19	Mon 29/6/20	Mon 16/9/19	NA NA	253.5 days		524	99%	16/9	
	Excavation Permit Application for Chuk Wan Street (Portion C)	284 days	Mon 7/10/19	Thu 16/7/20	Mon 7/10/19		0 days	2FS+21 days		80%	7/10	
	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			2	435	100%	16/9 21/11	
		,										
	<u> </u>	45 days	Wed 15/7/20	Fri 28/8/20	Wed 15/7/20		193.5 days		526	0%	15/7 🗨 28/8	
	Environmental Aspect Submissions	334 days	Mon 16/9/19	Fri 14/8/20	Mon 16/9/19		0 days		050	98%	16/9	
	Notification to EPD for Works Commencement	1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19			2	253	100%	18/9   18/9	
	Apply & approve for Registration as a Chemical Waste Producer	1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	0 days	2	253	100%	18/9   18/9	
	Apply & approve for a Billing Account for Disposal of Construction Waste	1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	0 days	2	253	100%	18/9   18/9	
		21 days	Thu 9/1/20	Mon 3/8/20	Thu 9/1/20	NA NA		2	253	90%	9/1 ■ ●3/8	
	Prepare & submit of Project Layout Plan & O-Chart for EP	1 day	Fri 20/9/19	Fri 20/9/19	Fri 20/9/19			2	253	100%	20/9 20/9	
	Prepare & submit Construction Noise Permits	121 days	Mon 16/9/19	Tue 14/1/20	Mon 16/9/19			2	159	100%	16/9 14/1	
	· · · · · · · · · · · · · · · · · · ·	,										
	Approval of Construction Noise Permits	60 days	Tue 14/1/20	Fri 14/8/20	Tue 14/1/20		,	158	253	80%		
	Prepare, submit Site Management Plan for Trip Ticket System	9 days	Mon 16/9/19	Tue 24/9/19	Mon 16/9/19			2		100%	16/9 24/9	
	Approval of Site Management Plan for Trip Ticket System	249 days	Tue 24/9/19	Fri 29/5/20	Tue 24/9/19				253	100%	24/9 29/5	
	Prepare & submit approve Waste Management Plan	9 days	Mon 16/9/19	Tue 24/9/19	Mon 16/9/19	Tue 24/9/19	0 days	2	163	100%	16/9 24/9	
	Approval of Waste Management Plan	119 days	Tue 24/9/19	Tue 21/1/20	Tue 24/9/19	Tue 21/1/20	0 days	162	253	100%	24/9 21/1	
	Prepare & submit Environmental Management Plan	15 days	Mon 16/9/19	Mon 30/9/19	Mon 16/9/19		,	2	165	100%	16/9 30/9	
	Approval of Environmental Management Plan	37 days	Mon 30/9/19	Wed 6/11/19	Mon 30/9/19		,	164	253	100%	30/9 6/11	
	· · · · · · · · · · · · · · · · · · ·		Mon 16/9/19	Fri 3/4/20	Mon 16/9/19		,		167	100%	16/9 3/4	
	Prepare& submit for Temporary Drainage and Management Plan	201 days					,	2				
	Approval of Temporary Drainage and Management Plan	30 days	Fri 20/12/19	Wed 5/8/20	Fri 20/12/19		, .	166	435	90%	20/12 ■ ● 5/8	
	Prepare, submit & approve for the FSD submissions for CLP 132kV Substation	90 days	Sat 20/11/21	Thu 17/2/22	NA	NA NA	0 days			0%		20/11 17/2
	Prepare and submit arrangement and schedure to FSD	30 days	Sat 20/11/21	Sun 19/12/21	NA	NA NA	0 days		170	0%		20/11 19/12
	FSD approve the arrangement and schedule	60 days	Mon 20/12/21	Thu 17/2/22	NA	NA NA	0 days	169		0%		20/12 17/2
	Trees Related Submissions	1590 days	Mon 16/9/19	Mon 22/1/24	Mon 16/9/19	NA NA	1 day			36%	16/9	22/1
	Initial Tree survey and report submission	194 days	Fri 4/10/19	Tue 14/4/20	Fri 4/10/19		•	2	210	100%	4/10 14/4	_
	Prepare and submit and approve the Method Statement of Erection of the protective fencing	26 days	Mon 16/9/19	Fri 11/10/19	Mon 16/9/19		,	2	210	100%	16/9 11/10	
							,-	_	= . •			
	Prepare and submit and approve the Method Statement of Tree felling, Preservation, Prunning works & Transplanting	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	
	Submit Yearly Tree Risk Assessment and Inspection Report	1590 days	Mon 16/9/19	Mon 22/1/24	Mon 16/9/19	NA NA	1 day	2	47FF	20%	16/9	22/1
	·		Fri 20/9/19	Wed 14/9/22	Fri 20/9/19		0 days	2	7/11	64%		14/9
	Others						•		000	100%		14/5
	Approval for Lighting Removal at Portion C-1A of the Site from Hyd		Thu 26/9/19	Fri 17/1/20	Thu 26/9/19		-	2	223	10070	26/9 17/1	
	Prepare, submit & approve for commencement of Works near MTRCL protection zone at Sun Wan	43 days	Fri 20/9/19	Fri 1/11/19	Fri 20/9/19	Fri 1/11/19	0 days	2	497	100%	20/9 1/11	
	Road from MTRCL  Prepare, submit & approve for commencement Works along the riverbank by DSD	90 days	Thu 16/6/22	Wed 14/9/22	NA	NA NA	0 days		484,485,487,486F	0%		16/6
		•							days		16/0	
	Procurement	506 days	Mon 16/9/19	Tue 2/2/21	Mon 16/9/19		-45 days		100	81%	16/9	212
		34 days	Mon 16/9/19	Sat 19/10/19	Mon 16/9/19	Sat 19/10/19	0 days	2	182	100%	16/9 19/10	
	PM Review & Accept Procurement Procedure	0 days	Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	0 days	181	183,200,204,205,	100%	♦ 19/10	
	Pipe works material	408 days	Fri 8/11/19	Sat 19/12/20	Fri 8/11/19	NA NA	0 days	182		78%	8/11	/12
	Prepare & submit concrete pipe material particular	199 days	Tue 12/11/19	Thu 28/5/20	Tue 12/11/19	Thu 28/5/20		2	185	100%	12/11 28/5	
	Approval of concrete pipe material	205 days	Thu 28/5/20	Sat 19/12/20	Thu 28/5/20		-	184	186	100%	28/5	12
	Procurement, deliver & testing of concrete pipe material (1st batch)	0 days	Fri 8/11/19	Mon 25/11/19	Fri 8/11/19				434,435	100%	◆ 25/11	
								100				
	Procurement, deliver & testing of concrete pipe material (remaining)	247 days	Mon 16/12/19		Mon 16/12/19		8.5 days		475	29%	16/12	
	Prepare & submit ductile iron pipe material particular	90 days	Thu 19/12/19	Tue 17/3/20	Thu 19/12/19		•		189	100%	19/12 17/3	
	Approval of ductile iron pipe material	28 days	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	
	Procurement, deliver & testing of ductile iom pipe material	0 days	Wed 18/12/19	Tue 21/1/20	Wed 18/12/19	Tue 21/1/20	0 days	189	477	100%	<b>♦ 21/1</b>	
	Prepare & submit HDPE pipe material particular	127 days	Tue 21/1/20	Tue 26/5/20	Tue 21/1/20	Tue 26/5/20	0 days	2FS+120 days	192	100%	21/1 26/5	
		21 days	Tue 26/5/20	Tue 16/6/20	Tue 26/5/20	Tue 16/6/20	0 days	191	193	100%	26/5 16/6	
	Procurement, deliver & testing of HDPE pipe material	0 days	Fri 8/5/20	Mon 8/6/20	Fri 8/5/20				476,477	100%	♦ 8/6	
	Prepare & submit stainless steel pipe material particular	8 days	Fri 1/5/20	Fri 8/5/20	Fri 1/5/20				195	100%	1/5 8/5	
	Approval of stainless steel pipe material	21 days	Sat 9/5/20	Fri 7/8/20	Sat 9/5/20				196	100%	9/5 7/8	
		-	Fri 7/8/20		Sat 9/5/20 NA		•		474	0%	7/8 5/11	
	Procurement, deliver & testing of stainless steel pipe material	90 days		Thu 5/11/20			-69.7 days	-				
	Prepare & submit mild steel steel pipe material particular	1 day	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19			2	198	100%	19/12   19/12	
	Approval of mild steel pipe material	30 days	Thu 19/12/19	Sat 18/1/20	Thu 19/12/19				199	100%	19/12 18/1	
	Procurement, deliver & testing of mild steel pipe material	133 days	Mon 9/12/19	Sat 30/5/20	Mon 9/12/19	Sat 30/5/20	0 days	198	474	100%	9/12 30/5	
	Prefabricated steel reinforcement	294.61 days	Wed 16/10/19	Wed 5/8/20	Wed 16/10/19	Wed 5/8/20	0 days	182		100%	16/10 5/8	
	Prepare & submit steel reinforcement material particular	21 days	Wed 16/10/19	Mon 3/8/20	Wed 16/10/19	Mon 3/8/20	0 days	2FS+60 days	202	100%	16/10 🔳   3/8	
	Approval of prefabricated steel reinforcement material supplier	60 days	Fri 6/12/19	Mon 3/8/20	Fri 6/12/19				203	100%	6/12 3/8	
	Procurement, deliver & testing of prefabricated steel reinforcement material	180 days	Tue 4/2/20	Wed 5/8/20	Tue 4/2/20				506,418,382,377,		4/2 5/8	
			Fri 5/6/20	Mon 15/6/20	Fri 5/6/20	Mon 15/6/20			289,306,320,506,		5/6 ▮ 15/6	

### Updated Programme (Status Date: 28/02/2021)



KD Tas	sk Name	Duration	Start	Finish	Actual Start	Actual Finish	Total Slad	ck Predecessors	Successors	% Time Risk Comple Allowance	2019   2020   2021   2022   2023   2024   202   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q1   Q3   Q4   Q1   Q1   Q3   Q4   Q1   Q1   Q1   Q1   Q1   Q1   Q1
	Prepare, submit and approve the concrete mix	180 days	Fri 6/12/19	Tue 2/6/20	Fri 6/12/1		0 days		289,306,320,506		6/122/6
	Prepare, submit and approve the metal works material	30 days	Mon 11/5/20	Tue 9/6/20	N/		42.5 days		207,289,306,320		11/5 → 9/6
	Prepare, submit and approve the ABWF works material	30 days	Mon 4/1/21	Tue 2/2/21	N/		-63.5 days		247,276,296,309		4/1 🧃 2/2
	te Preliminary Works	315.1 days		Thu 8/10/20	Mon 16/9/1		14.4 days			66%	16/9
	Mobilization for Hoarding	5 days	Thu 21/11/19	Tue 26/11/19	Thu 21/11/1				210	100%	21/11   26/11
	Hoarding Erection at Portion C	0 days	Wed 27/11/19	Sat 29/2/20	Wed 27/11/1					100%	♦ 29/2
	Project Signboard Erection	11 days	Sun 15/12/19	Mon 30/12/19	Sun 15/12/1		,		210	100%	15/12 30/12
	Utility applications and Connection	87 days	Mon 16/9/19	Mon 30/12/19	Mon 16/9/1		,		213FF	100%	16/9 30/12
	Construction of Site Accommodation in Works Area	52 days	Thu 6/8/20	Thu 8/10/20	N/			s 143,212FF,125	55	0%	16/9
	onstruction Works of Portion C of the Site UV System No. 1 & Effluent Pumping Station No. 1	1526 days 776 days	Mon 16/9/19 Mon 16/9/19	Sat 16/11/24 Sat 30/4/22	Mon 16/9/1	_	0 days 415.5 days			13% 55%	16/9
	Preliminary Works	114 days	Mon 16/9/19	Tue 4/2/20	Mon 16/9/1			S		100%	16/9 4/2
	Site Clearance & Site Set Up (NCE no. 0005, 0006)	23 days	Mon 16/9/19	Mon 14/10/19	Mon 16/9/1			2	218	100%	16/9 14/10
	Tree Felling Works	6 days	Tue 15/10/19	Sun 20/10/19	Tue 15/10/1				219	100%	15/10   20/10
	Trial Pit Excavation & UU Detection Works	5 days	Tue 15/10/19	Sat 19/10/19	Tue 15/10/1				220	100%	15/10   19/10
	Temporary Footpath Diversion	20 days	Mon 14/10/19	Tue 5/11/19	Mon 14/10/1				221,224	100%	14/10 5/11
	Temporary diverted foorpath open to public	1 day	Tue 10/12/19	Tue 10/12/19	Tue 10/12/1		,		223,222	100%	10/12   10/12
	Additional Liaison and diversion of HyD Street Light Cables (NCE no. 0007)	28 days	Sat 30/11/19	Sat 4/1/20	Sat 30/11/1			221	223	100%	30/11 4/1
	Removal of Existing Street light and Provision of Temporary Street light (PMI no.005, NCE no. 0022)	8 days	Thu 23/1/20	Tue 4/2/20	Thu 23/1/2		,		434	100%	23/1 4/2
	Predrilling Works (8no, 1rig, 3days/drillhole/rig) (NCE no. 10)	12 days	Wed 27/11/19	Tue 10/12/19	Wed 27/11/1	9 Tue 10/12/19	0 days	220	225	100%	27/11 10/12
	Installation of Monitoring Points	1 day	Thu 19/12/19	Thu 19/12/19	Thu 19/12/1	9 Thu 19/12/19	0 days	224	227,226	100%	19/12   19/12
	Sheetpile Installation (FSP IV, 2200sq.m, 1 Rig)- stage 1 (NCE no. 18A, 22 & 25,)	97 days	Sat 4/1/20	Wed 6/5/20	Sat 4/1/2	0 Wed 6/5/20	0 days	225	228,230	100%	4/1 6/5
	Setting up plant for pre-bored socked H-pile Installation	4 days	Mon 4/5/20	Thu 7/5/20	Mon 4/5/2	0 Thu 7/5/20	0 days	225,228SS-5 days		100%	4/5   7/5
	Pre-bored Socketed H-Pile Installation (34 Nos, 1 Rig, 3days/rig/pile) (NCE no. 27, 32 & 41)	57 days	Mon 11/5/20	Fri 17/7/20	Mon 11/5/2	0 Fri 17/7/20	0 days	127,437,226	229,327,227SS-	5 100% 6	11/5 17/7
	Pile Loading Test	26 days	Sat 18/7/20	Mon 17/8/20	Sat 18/7/2	0 Mon 17/8/20	0 days	228,317FS+5 days	346FS+5 days,2	3 100%	18/7 🔳 17/8
	Sheetpile Installation (FSP IV, 2200sq.m, 1 Rig)- stage 2 (NCE no. 10)	22 days	Tue 18/8/20	Fri 11/9/20	Tue 18/8/2	0 Fri 11/9/20	0 days	229,226	231FS-10 days	100%	18/8 11/9
	ELS Works (incl. Strut (4-layers) Installation & Excavation (3,700 cu.m) (NCE no. 34)	45 days	Tue 1/9/20	Sat 24/10/20	Tue 1/9/2	0 Sat 24/10/20	0 days	144,130,129,230FS	-1(232	100%	1/9 24/10
	Additional sump pits (NCE no. 077)	17 days	Mon 26/10/20	Sat 14/11/20	Mon 26/10/2	0 Sat 14/11/20	0 days	231	235	100% 14,3	26/10 14/1
	R.C. Structure (370sq.m) (NEC no. 38, 46, 69,72,92,100) (CE no. 26)	159 days	Mon 16/11/20	Wed 2/6/21	Mon 16/11/2		-69 days			44% -56	16/11 2/6
	Below Ground Level Stage no.1 @ -1.10mPD	60 days	Mon 16/11/20	Wed 27/1/21	Mon 16/11/2	0 Wed 27/1/21	0 days			100% 5	16/11 27/1
	Base slab Construction (162 sq.m) (NCE no. 77)	15 days	Mon 16/11/20	Wed 2/12/20	Mon 16/11/2	0 Wed 2/12/20	0 days	232	236	100% 2	16/11 🛮 2/12
	Walls and Slabs Construction @-1.10mPD to +2.50mPD [CHAX puddle (DN 1200 -> DN1600) (NCE no.0038)] [Revised Structural Layout for foundation (NCE no. 0072)], [NCE no. 46], [NCE no.100]	45 days	Thu 3/12/20	Wed 27/1/21	Thu 3/12/2	0 Wed 27/1/21	0 days	235,132	238SS+30 days	100% 3,10,12	3/12 27/1
	Below Ground Level Stage no.2 @ +1.50mPD	45 days	Mon 11/1/21	Sat 6/3/21	Mon 11/1/2	1 NA	0 days			63%	11/1 📷 6/3
	Base slab Construction (170sq.m) (NCE no.115)	15 days	Mon 11/1/21	Wed 27/1/21	Mon 11/1/2	1 NA	21 days	236SS+30 days	239	50%	11/1 @ 27/1
	Walls and Slabs Construction @+1.5mPD to +4.9mPD [Additional CHA & CHL puddle (DN350),	30 days	Thu 28/1/21	Sat 6/3/21	Thu 28/1/2			· ·	241SS+14	70% 6,12	28/1 👩 6/3
	Additional CHLA puddle (DN150) NCE no.0038], [NCE no. 46, 100, 114]								days,472		
	Below Ground Level Stage no.3 @ +3.80mPD	62 days	Wed 17/2/21	Wed 5/5/21	N/	A NA	-176.5 day	rs .		0%	17/2
	Base slab Construction (15 sq.m + 40 sq.m)	13 days	Wed 17/2/21	Wed 3/3/21	N/			s 239SS+14 days	242	0%	17/2 🧃 3/3
	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], [NCE no.100]	37 days	Thu 4/3/21	Tue 20/4/21	N/	A NA	-176.5 day	rs 132,241	243,245	0% 9,12	4/3 20/4
	Extraction of Sheetpiles	12 days	Wed 21/4/21	Wed 5/5/21	N/		-153.5 day		55	0%	21/4 🛮 5/5
	Above Ground Level @ +7.4mPD	35 days	Wed 21/4/21	Wed 2/6/21	N/	A NA	-176.5 day	rs .		0%	21/4 🔳 2/6
)1A	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	Wed 21/4/21	Wed 2/6/21	N/	A NA	-176.5 day	rs 242	246,247,55	0% 6,12	21/4 = 2/6
)1A	Allow access to Contarctor DE/2018/03 for E&M Installation	0 days	Wed 2/6/21	Wed 2/6/21	N/	A NA	-55.5 days	s 245	93	0%	♦ 2/6
V1	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining	90 days	Thu 3/6/21	Fri 17/9/21	N/	A NA	-145.5 day	rs 207,133,245	248,93	0%	3/6 17/9
V5	Surrounding Site formation works and road works	180 days	Sat 18/9/21	Sat 30/4/22	N/	A NA	415.5 days	s 247	117	0%	18/9 30/4
	Sludge Digesters and Distribution Chamber	733 days	Sat 7/12/19	Thu 2/6/22	Sat 7/12/1		389.5 day			31%	7/12
	Site Clearance & Site Set Up	6 days	Sat 7/12/19	Fri 13/12/19	Sat 7/12/1					100%	7/12   13/12
	Trial Pit Excavation & UU Detection Works	6 days	Sat 14/12/19	Fri 20/12/19	Sat 14/12/1	9 Fri 20/12/19	0 days	253SF	250SF	100%	14/12   20/12
	Tree Transplanting Works (TC080)(NCE no.50 & 51)	120 days	Fri 24/4/20	Tue 15/9/20	Fri 24/4/2	0 Tue 15/9/20	0 days	174	261FS-8 days	100%	24/4 15/9
	Predrilling Works (50no., 4rig, 3 days/drillhole/rig)(NCE no. 10)	10 days	Sat 28/12/19	Thu 9/1/20	Sat 28/12/1	9 Thu 9/1/20			54, 254,251SF,259	100%	28/12 9/1
	Installation of Monitoring Points	0 days	Thu 19/12/19	Thu 19/12/19	Thu 19/12/1	9 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 15/1/2	0 Fri 7/2/20	0 days			100%	15/1 7/2
	Setting up plant for pre-bored socked H-pile Installation	6 days	Mon 3/2/20	Sat 8/2/20	Mon 3/2/2	0 Sat 8/2/20	0 days		257	100%	3/2   8/2
	Pre-bored Sockedted H-Pile Installation (127nos, 3rig, 3days/rig/pile)	60 days	Sat 8/2/20	Wed 22/4/20	Sat 8/2/2					100% 6	8/2 22/4
	Pile Loading Test	26 days	Fri 7/8/20	Sat 5/9/20	Fri 7/8/2				s 261	100%	7/8 5/9
	Sheetpile Installation- stage 2 (NCE no. 10, 24)	151 days	Mon 4/5/20	Sat 31/10/20	Mon 4/5/2				257SS+20 days,		4/5 31/10
	Construction of Digestors	340 days	Mon 7/9/20	Sat 30/10/21	Mon 7/9/2		-127.5 day			12%	7/9 30/10
	ELS Works (incl. Strut (4-layers) Installation & Excavation (17,600 cu.m))	70 days	Mon 7/9/20	Wed 16/12/20	Mon 7/9/2			rs 144,130,258,129,25		80% 6	7/9 6/12
	Construction of Digesters Tank no.1 & external waterproofing works	70 days	Thu 17/12/20	Mon 15/3/21	N/			vs 261,203,132	266,263SS+40 d		17/12 15/3
	Construction of Digesters Tank no.2 & external waterproofing works	70 days	Tue 26/1/21	Mon 5/4/21	N/			vs 262SS+40 days	266,264SS+40 d		26/1 5/4
	Construction of Digesters Tank no.3 & external waterproofing works	70 days	Sun 7/3/21	Sat 15/5/21	N/			/s 263SS+40 days	266,265SS+40 d		7/3 15/5
	Construction of Digesters Tank no.4 & external waterproofing works	70 days	Fri 16/4/21	Thu 24/6/21	N/			/s 264SS+40 days	266	0%	16/4 24/6
	Water Test	20 days	Fri 25/6/21	Mon 19/7/21	N/			rs 262,265,264,263	267	0%	25/6 19/7
•	Apply Internal Anti-corrosion Protective Lining	28 days	Tue 20/7/21	Fri 20/8/21	N/		-127.5 day		268	0%	20/7 20/8
3A	Construction of Roof Slab	58 days	Sat 21/8/21	Sat 30/10/21	N/		-127.5 day		273,67	0%	21/8 30/10
	Construction of Distribution Chamber	172 days	Mon 18/1/21	Wed 18/8/21	N/		-67.5 days		074	0%	18/1 18/8
	Sheet Pile Installation	45 days	Mon 18/1/21	Sat 13/3/21	N/		-63.5 days		271	0%	18/1 13/3
24	ELS Works (incl. Strut (3-layers) Installation & Excavation)	45 days	Mon 15/3/21	Tue 11/5/21	N/			s 144,130,270,129,26		0% 10	15/3 11/5
)3A	Construction of Distribution Chamber	78 days	Mon 17/5/21	Wed 18/8/21	N/		-67.5 days		276,273,275,274		17/5 18/8
03A	Allow access to Contarctor DE/2018/03 for E&M Installation	0 days	Sat 30/10/21	Sat 30/10/21	N/		-127.5 day		67	0%	♦ 30/10 10/8 — 4/12
	Drainage System (within Bldg/ Structure) Installation	90 days	Thu 19/8/21	Sat 4/12/21	N/	n NA	148.5 days	S 2/2	105	0%	19/8 4/12

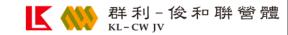
### Updated Programme (Status Date: 28/02/2021)



ID KD T	ask Name	Duration	Start	Finish	Actual Start	Actual Finish	Total Slac	k Predecessors	Successors	% Time Risk Comple Allowance	2019   2020   2021   2022   2023   2024   2025
275	FRP Walkway & Miscellanous Installation	90 days	Thu 19/8/21	Sat 4/12/21	NA	NI/	148.5 days	272	105	0%	Q1   Q2   Q3   Q4   Q1   Q1   Q2   Q3   Q4   Q1   Q1   Q1   Q1   Q1   Q1   Q1
276 SW3	ABWF Works & BS Works, incl. External Linning	90 days	Thu 19/8/21	Sat 4/12/21	NA NA		,	272,207,133	277,105	0%	19/8 4/12
277 SW5	Surrounding Site formation works and road works	180 days	Sun 5/12/21	Thu 2/6/22	NA NA		476.5 days		117	0%	5/12 2/6
278 *	Sludge Dewatering Building	817 days	Tue 26/11/19	Tue 30/8/22	Tue 26/11/19		315.5 days		117	44%	26/11
279	Site Clearance & Site Set Up	6 days	Tue 26/11/19	Mon 2/12/19	Tue 26/11/19		0 days		280	100%	26/11   2/12
280	Predrilling Works (39no.4rig, 3days/drillhole/rig)(additional length NCE no.10)	20 days	Thu 28/11/19	Fri 20/12/19	Thu 28/11/19		,	126,279	282,281	100%	28/11 20/12
281	Additional Predrilling Works (11no.)	8 days	Mon 23/12/19	Mon 30/12/19	Mon 23/12/19		,	280	282	100%	23/12   30/12
282	Installation of Monitoring Points	4 days	Fri 10/1/20	Tue 14/1/20	Fri 10/1/20			280,281	287,283	100%	10/1   14/1
283	Sheet Pile Installation- stage1 (NCE NO. 18A, 22 & 25, PMI no.005)	52 days	Wed 15/1/20	Fri 6/3/20	Wed 15/1/20		,	282	287,285,284	100%	15/1 6/3
284	Setting up plant for pre-bored socked H-pile Installation	5 days	Sat 7/3/20	Thu 12/3/20	Sat 7/3/20			283	285,415SS-14 da		7/3   12/3
285	Pre-bored Socketed H-Pile Installation (202 Nos, 4 Rig, 3days/rig/pile) (NCE no. 18A, 25, 27 & 32)  Pile Loading Test	67 days 20 days	Fri 13/3/20 Tue 30/6/20	Fri 5/6/20 Thu 23/7/20	Fri 13/3/20 Tue 30/6/20		,	127,284,283 285	315,286 288	100% 6	13/3 5/6 30/6 23/7
287	Sheet Pile Installation- stage2 (NCE no. 10, 14) (NCE no. 32 & 41)	239 days	Sat 11/1/20	Sat 31/10/20	Sat 11/1/20				417,288	100%	11/1 31/10
288	ELS Works (incl. Strut (3-layers) Installation & Excavation (25,000 cu.m))	60 days	Mon 2/11/20	Wed 13/1/21	Mon 2/11/20			144,130,286,129,28			2/11 13/1
289	R.C. Structure	246 days	Thu 14/1/21	Fri 12/11/21	NA		,	204,205,206,131,28		0% 10	14/1
290	Basement Consturction & external waterproofing works	70 days	Thu 14/1/21	Tue 13/4/21	NA		A -144.5 days		291	0%	14/1
291	Ground Floor Construction @ +7.55mpD	72 days	Wed 14/4/21	Sat 10/7/21	NA		A -144.5 days		292	0%	14/4 10/7
292	1/F Construction @ +15.3m mPD	72 days	Mon 12/7/21	Tue 5/10/21	NA	N/	4 -144.5 days	291	293	0%	12/7 5/10
293 KD3B	Roof Construction @ +25.65mPD	32 days	Wed 6/10/21	Fri 12/11/21	NA	N/	A -144.5 days	292	395,294,73	0%	6/10 12/11
294 KD3B	Allow access to Contarctor DE/2018/03 for E&M Installation	0 days	Fri 12/11/21	Fri 12/11/21	NA	N/	4 -144.5 days	293	73	0%	♦ 12/11
295	Allow access to Contarctor DE/2018/03 for E&M Installation	90 days	Sat 13/11/21	Fri 4/3/22	NA		77.5 days	289	105	0%	13/11 4/3
296 SW5	ABWF Works & BS Works	89 days	Sat 13/11/21	Thu 3/3/22	NA		78.5 days	289,207,133	297,105	0%	13/11 3/3
297 SW5	Surrounding Site formation works and road works	180 days	Fri 4/3/22	Tue 30/8/22	NA		387.5 days	296	117	0%	4/3 30/8
298 *	Combined Heat Power Building	734 days	Tue 10/12/19	Tue 7/6/22	Tue 10/12/19		386.5 days			14%	10/12
299	Site Clearance & Site Set Up	6 days	Tue 10/12/19	Mon 16/12/19	Tue 10/12/19			2,300SF		100%	10/12   16/12
300	Predrilling Works (15no. 2rig, 3days/drillhole/rig) (NCE no. 10)	15 days	Tue 10/12/19	Sat 28/12/19	Tue 10/12/19		,	126FS+28 days	301,299SF	100%	10/12 28/12
301	Installation of Monitoring Points	4 days	Fri 3/1/20	Tue 7/1/20	Fri 3/1/20			300	303	100%	3/1   7/1
302	Setting up plant for pre-bored socked H-pile Installation (NCE no. 10)	6 days	Wed 8/1/20	Tue 14/1/20	Wed 8/1/20		0 days		303	100%	8/1   14/1
303	Pre-bored Socketed H-Pile Installation (50 Nos, 2 Rig 3days/rig/pile) (NCE no. 18A, 22, 25, PMI no.005)		Wed 15/1/20	Tue 21/4/20	Wed 15/1/20		,	127,301,302,500	304	100% 6	15/1 21/4
304	Pile Loading Test	4 days	Wed 22/4/20	Sat 25/4/20	NA NA		13.5 days		305	0%	22/4 <u>• 25/4</u> 22/6 <u>• 30/9</u>
305	Excavation for Pile Cap (2,060 cu.m)	85 days	Mon 22/6/20	Wed 30/9/20	NA NA			144,130,304,129	306	0% 10	
306 KD3C 307 KD3C	R.C. Structure  Allow access to Contarctor DE/2018/03 for E&M Installation	263 days	Sat 3/10/20	Mon 23/8/21	NA			204,205,206,131,30			3/10 <u>23/8</u> 23/8 24/8 1 24/8
307 KD3C		1 day	Tue 24/8/21	Tue 24/8/21	NA NA		-59.5 days		<b>78</b> 105	0% 0%	24/6   24/6
	Drainage System (within Bldg/ Structure) Installation	60 days	Tue 24/8/21	Thu 4/11/21	NA NA		174.5 days				24/8 9/12
309 SW3 310 SW5	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining Surrounding Site formation works and road works	90 days	Tue 24/8/21 Fri 10/12/21	Thu 9/12/21 Tue 7/6/22	NA NA		4 471.5 days	306,207,133	310,105 117	0%	10/12 7/6
311 *	Sewage Pumping Station	180 days 838 days	Fri 15/11/19	Wed 14/9/22	Fri 15/11/19		471.5 days		117	27%	15/11
312	Site Clearance & Site Set Up	14 days	Fri 15/11/19	Sat 30/11/19	Fri 15/11/19		0 days		313	100%	15/11 30/11
313	Predrilling Works (4no.1riq, 3days/drillhole/rig)	0 days	Mon 2/12/19	Mon 30/12/19	Mon 2/12/19			126FS+14 days,312		100%	♦ 30/12
314	Installation of Monitoring Points	4 days	Fri 17/4/20	Tue 21/4/20	Fri 17/4/20			313	011	100%	17/4   21/4
315	Setting up plant for pre-bored socked H-pile Installation	5 days	Tue 21/4/20	Sat 25/4/20	Tue 21/4/20			285	316	100%	21/4   25/4
316	Pre-bored Socketed H-Pile Installation (22 Nos, 1 Rig, 3days/rig/pile)	27 days	Mon 27/4/20	Fri 29/5/20	Mon 27/4/20				317	100% 6	27/4 29/5
317	Pile Loading Test	11 days	Sat 27/6/20	Fri 10/7/20	Sat 27/6/20		,	316,329FS+5 days			27/6   10/7
318	Sheet Pile Installation	30 days	Wed 11/11/20		Wed 11/11/20			317,259FS+8 days		100%	11/11 15/12
319	ELS Works (incl. Strut (3-layers) Installation & Excavation (1,440 cu.m))	80 days	Wed 16/12/20		Wed 16/12/20			144,130,317,129,31		100% 10	16/12 25/3
320 KD3E	R.C. Structure & waterproofing works	200 days	Fri 26/3/21	Fri 26/11/21	NA	N/	A -64.5 days	204,205,206,131,34	3,1321,88	0% 10	26/326/11
321 SW3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining	90 days	Sat 27/11/21	Fri 18/3/22	NA	N/	A 65.5 days	207,133,320,132	322,105	0%	27/11 18/3
322 SW5	Surrounding Site formation works and road works	180 days	Sat 19/3/22	Wed 14/9/22	NA		372.5 days		117	0%	19/3 14/9
323 *	Workshop No. 2	683.6 days		Wed 20/4/22	Tue 24/12/19		424.9 days			15%	24/12 20/4
324	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	325	100%	24/12   28/12
325	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	0 days	126,324	326	100%	2/1   10/1
326	Installation of Monitoring Points	4 days	Tue 25/2/20	Fri 28/2/20	Tue 25/2/20		-	325	328,327	100%	25/2   28/2
327	Setting up plant for pre-bored socked H-pile Installation	0 days	Tue 10/3/20	Tue 17/3/20	Tue 10/3/20				328	100%	♦ 17/3
328	Pre-bored Socketed H-Pile Installation (36 Nos, 2 Rig, 3days/rig/pile)	64 days	Wed 18/3/20	Sat 6/6/20	Wed 18/3/20			127,326,327	329,345	100% 6	18/3 6/6
329	Pile Loading Test	16 days	Sun 7/6/20	Fri 26/6/20	Sun 7/6/20			328,501FS+5 days	330,317FS+5 day		7/6 26/6
330	Excavation for Pile Cap (1,800 cu.m)	22 days	Wed 30/9/20	Tue 8/12/20	NA			144,130,329,129	332,474,475,476		30/9 8/12
331	R.C. Structure	166 days	Tue 8/12/20	Tue 6/7/21	NA		A -88.1 days			0% 10	8/12 6/7
332	Ground Floor Construction @ +6.30mpD	64 days	Tue 8/12/20	Sat 27/2/21	NA		A -88.1 days		333	0%	8/12 27/2
333	First Floor Construction @ +13.50mpD	62 days	Sat 27/2/21	Mon 17/5/21	NA		4 -88.1 days		334	0%	27/2 17/5
334 KD3D	Roof Construction @+19.00mPD	40 days	Mon 17/5/21	Tue 6/7/21	NA		4 -88.1 days		336,337,335,83F		17/5 = 6/7
335 KD3D	Allow access to Contarctor DE/2018/03 for E&M Installation	0 days	Tue 6/7/21	Tue 6/7/21	NA		4 -88.1 days		83FF	0%	♦ 6/7 C/7 === 44/0
336	Drainage System (within Bldg/ Structure) Installation	60 days	Tue 6/7/21	Tue 14/9/21	NA NA		215.9 days		105	0%	6/7 14/9
337 SW3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining	90 days	Tue 6/7/21	Fri 22/10/21	NA			207,133,334	338,105	0%	22/10 22/4
338 SW5	Surrounding Site formation works and road works	180 days	Fri 22/10/21	Wed 20/4/22	NA		519.9 days		117	0%	22/10 20/4
339 *	Thermal Hydrolysis Pretreatment	494 days	Thu 19/12/19	Sun 22/8/21	Thu 19/12/19		618.5 days		241 242	<b>39%</b>	19/12 22/8 19/12 11/1
340 341	Site Clearance & Site Set Up  Prodrilling Works (3ng 1rig 2days/drillhole/rig) (NCE ng. 10)	18 days	Thu 19/12/19	Sat 11/1/20	Thu 19/12/19		0 days		341,342	100% 100%	19/12 11/1
341	Predrilling Works (3no.1rig, 3days/drillhole/rig) (NCE no. 10)  Additional Predrilling Works (4no.) (NCE no. 12)	1 day 1 day	Fri 10/1/20 Fri 10/1/20	Mon 13/1/20 Mon 13/1/20	Fri 10/1/20 Fri 10/1/20		-	126FS+24 days,340 340	343	100%	10/1   13/1
343	Installation of Monitoring Points	6 days	Fri 1/5/20	Fri 8/5/20	Fri 1/5/20		-		345	100%	1/5   8/5
344	Setting up plant for pre-bored socked H-pile Installation	5 days	Tue 12/5/20	Sat 16/5/20	Tue 12/5/20			UT 1,UTZ	345	100%	12/5   16/5
345	Pre-bored Socketed H-Pile Installation (15 Nos, 1 Rig, 3days/rig/pile)	0 days	Mon 18/5/20	Sat 20/6/20	Mon 18/5/20			127,343,344,328	346	100%	18/5 20/6
		-	Mon 27/7/20	Fri 11/9/20	Mon 27/7/20			345,229FS+5 days	347,258SS+10 d		27/7   11/9
	Pile Loading Test	25 dave									
346 347	Pile Loading Test  Excavation for Pile Cap (160 cu.m)	25 days 20 days	Tue 8/12/20	Mon 4/1/21	Tue 8/12/20			144,130,346,330	348	100%	8/12 4/1

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### Updated Programme (Status Date: 28/02/2021)



KD Task		Duration	Start	Finish		Total Slack Predecessors	Successors	% Time Risk Comple Allowance	2019
KD3E	R.C. Plinth	40 days	Mon 4/1/21	Tue 23/2/21		21 0 days 347	320,349,88	100%	4/1 23/2
SW5	Surrounding Site formation works and road works	180 days	Tue 23/2/21	Sun 22/8/21		IA 760.9 days 348	117	0%	23/2 22/8 25/5 25/5
· F	erric Chloride Dosing Facilities	374 days	Tue 25/5/21	Thu 25/8/22		IA -92.5 days	352	0%	25/5 5/7
	Excavation for Raft Footing (105 cu.m)	34 days 18 days	Tue 25/5/21	Mon 5/7/21 Mon 26/7/21		IA -92.5 days 2	353	0%	6/7 26/7
	Plate Load Test R.C. Structure	66 days	Tue 6/7/21 Tue 27/7/21	Wed 13/10/21		IA -92.5 days 351 IA -92.5 days 352,131,203	354	0% 5	27/7 13/10
KD3E	Steel Roof Structure (On-site Fabrication)	65 days	Fri 15/10/21	Fri 31/12/21		IA -92.5 days 353	355,88	0%5	15/10 31/12
SW3	ABWF Works & BS Works	45 days	Mon 3/1/22	Sat 26/2/22		IA 82.5 days 354,207,133	356,105	0%	3/1 26/2
SW5	Surrounding Site formation works and road works	180 days	Sun 27/2/22	Thu 25/8/22		IA 392.5 days 355	117	0%	27/2 25/8
	ire Hydrant and Booster Pump Room	329 days	Mon 19/7/21	Thu 25/8/22		IA -42.5 days	111	0%	19/7 25/8
	Excavation for Raft Footing (160 cu.m)	10 days	Mon 19/7/21	Thu 29/7/21		IA -42.5 days 2,364	359.405	0%	19/7 29/7
	Plate Load Test	18 days	Fri 30/7/21	Thu 19/8/21		IA -42.5 days 358	360	0%	30/7 ■ 19/8
D3E	R.C. Structure & waterproofing works	60 days	Thu 21/10/21	Fri 31/12/21		IA -92.5 days 359,131,366,203,1	32 361.88	0% 5	21/10 31/12
N3	ABWF Works & BS Works	45 days	Mon 3/1/22	Sat 26/2/22		IA 82.5 days 360,207,133	362,105	0%	3/1 26/2
V5	Surrounding Site formation works and road works	180 days	Sun 27/2/22	Thu 25/8/22		IA 392.5 days 361	117	0%	27/2 25/8
T	ransformer and Switchroom	324 days	Thu 6/5/21	Thu 9/6/22		IA -52.5 days		0%	6/5
	Excavation for Raft Footing (310 cu.m)	20 days	Thu 6/5/21	Sat 29/5/21	NA N	IA -52.5 days 2,390	365,358	0%	6/5 ■ 29/5
	Plate Load Test	18 days	Mon 31/5/21	Mon 21/6/21	NA N	IA -52.5 days 364	366	0%	31/5 21/6
3E	R.C. Structure	60 days	Mon 9/8/21	Wed 20/10/21	NA N	IA -92.5 days 365,131,392,203	367,360,88	0% 5	9/8 20/10
V3	ABWF Works & BS Works	45 days	Thu 21/10/21	Sat 11/12/21		IA 142.5 days 366,207,133	368,105	0%	21/10 11/12
V5	Surrounding Site formation works and road works	180 days	Sun 12/12/21	Thu 9/6/22		IA 469.5 days 367	117	0%	12/12 9/6
W	later Meter Cabinet	217 days	Tue 3/8/21	Wed 27/4/22		A -63.5 days		0%	3/8 27/4
	Excavation for Raft Footing (6 cu.m)	10 days	Tue 3/8/21	Fri 13/8/21	NA N	IA -63.5 days 2	371	0%	3/8 13/8
	Plate Load Test	18 days	Sat 14/8/21	Fri 3/9/21		IA -63.5 days 370	372	0%	14/8 3/9
	R.C. Structure	30 days	Sat 4/9/21	Mon 11/10/21	NA N	IA -63.5 days 371,131,203	373,376	0% 3	4/9 11/10
/4	ABWF Works & BS Works	15 days	Tue 12/10/21	Fri 29/10/21	NA N	IA 2.5 days 372,207,133	374,111	0%	12/10 29/10
/5	Surrounding Site formation works and road works	180 days	Sat 30/10/21	Wed 27/4/22	NA N	IA 512.5 days 373	117	0%	30/10 27/4
G	uard House	224 days	Tue 12/10/21	Sun 17/7/22	NA N	A -63.5 days		0%	12/10 17/7
	Excavation to Formation	21 days	Tue 12/10/21	Fri 5/11/21	NA N	IA -63.5 days 2,372	377	0%	12/10 🔳 5/11
	R.C. Structure	30 days	Sat 6/11/21	Fri 10/12/21		IA -63.5 days 131,376,203	378	0% 3	6/11 10/12
/4	ABWF Works & BS Works	30 days	Sat 11/12/21	Tue 18/1/22	NA N	IA -63.5 days 377,207,133	379,111	0%	11/12 18/1
/5	Surrounding Site formation works and road works	180 days	Wed 19/1/22	Sun 17/7/22	NA N	IA 431.5 days 378	117	0%	19/1 17/7
С	oolers Pumping Station	245 days	Wed 12/5/21	Mon 7/3/22	NA N	A -54.5 days		0%	12/5 7/3
	Excavation for Raft Footing (185 cu.m)	40 days	Wed 12/5/21	Tue 29/6/21		IA -54.5 days 2,271	382,400	0%	12/5 🚾 29/6
/4	R.C. Structure	60 days	Wed 30/6/21	Wed 8/9/21		IA -54.5 days 381,131,203	402,383,88	0% 5	30/6 8/9
/5	Surrounding Site formation works and road works	180 days	Thu 9/9/21	Mon 7/3/22		IA 563.5 days 382	117	0%	9/9 7/3
W	laste Gas Buner	197 days	Tue 24/8/21	Mon 25/4/22		IA -58.5 days		0%	24/8 25/4
	Excavation for Raft Rooting (75cu.m)	15 days	Tue 24/8/21	Thu 9/9/21		IA -58.5 days 2,306	386,410	0%	24/8 9/9
	Plate Load Test	18 days	Fri 10/9/21	Sat 2/10/21		IA -58.5 days 385	387	0%	10/9 2/10
3E	R.C. Plinth	20 days	Mon 4/10/21	Wed 27/10/21		IA -58.5 days 386,131	412,388,88	0%	4/10 ■ 27/10
15	Surrounding Site formation works and road works	180 days	Thu 28/10/21	Mon 25/4/22		IA 514.5 days 387	117	0%	28/10 25/4
Р	lant Services Water System	243 days	Mon 12/4/21	Thu 3/2/22		A -92.5 days	204.004	0%	12/4 3/2
	Excavation for Raft Footing (800 cu.m)	20 days	Mon 12/4/21	Wed 5/5/21		IA -92.5 days 2	391,364	0%	12 4
25	Plate Load Test	18 days	Thu 6/5/21	Thu 27/5/21		IA -92.5 days 390	392	0%	6/5 ■ 27/5 28/5 ■ 7/8
3E '5	Basement Construction @+1.20mPD	60 days	Fri 28/5/21	Sat 7/8/21		IA -92.5 days 391,131	366,393,88 117	0% 0%	8/8 3/2
	Surrounding Site formation works and road works	180 days	Sun 8/8/21	Thu 3/2/22		IA 595.5 days 392	117		
U	eodorization System No. 11	218 days	Sat 13/11/21	Wed 10/8/22		IA -124.5 days	200	0%	13/11 10/8 13/11 6/12
	Excavation for Raft Footing (1,280 cu.m)	20 days	Sat 13/11/21	Mon 6/12/21		IA -124.5 days 2,293	396 397	0%	_
3E	Plate Load Test R.C. Plinth	18 days	Tue 7/12/21 Thu 30/12/21	Wed 29/12/21 Fri 11/2/22		IA -124.5 days 395	398,88	0% 0%	7/12 <b>2</b> 9/12 30/12 <b>1</b> 1/2
		34 days				IA -124.5 days 396,131	398,88 117	0%	12/2 10/8
/5 R	Surrounding Site formation works and road works	180 days 234 days	Sat 12/2/22 Mon 30/8/21	Wed 10/8/22 Thu 16/6/22		IA 407.5 days 397 IA -83.5 days	117	0%	30/8
В	iogas Holder Excavation for Raft Footing (1,120 cu.m)	20 days	Mon 30/8/21	Tue 21/9/21		IA -83.5 days 2,381	401	0%	30/8 21/9
	Plate Load Test	18 days	Thu 23/9/21	Fri 15/10/21		IA -83.5 days 2,361	401	0%	23/9 15/10
BE .	R.C. Plinth	55 days	Sat 16/10/21	Sat 18/12/21		IA -83.5 days 401,131,382	403,88	0%	16/10 18/12
5	Surrounding Site formation works and road works	180 days	Sun 19/12/21	Thu 16/6/22		IA 462.5 days 402	117	0%	19/12 16/6
	2S Removal System	211 days	Mon 27/9/21	Thu 16/6/22		IA -83.5 days		0%	27/9 16/6
	Excavation for Raft Footing (396 cu.m)	10 days	Mon 27/9/21	Fri 8/10/21		IA -83.5 days 2,358	406	0%	27/9 8/10
	Plate Load Test	20 days	Sat 9/10/21	Tue 2/11/21		IA -83.5 days 405	407	0%	9/10 2/11
3E	R.C. Plinth	40 days	Wed 3/11/21	Sat 18/12/21		IA -83.5 days 406	408,88	0%	3/11 18/12
5	Surrounding Site formation works and road works	180 days	Sun 19/12/21	Thu 16/6/22		IA 462.5 days 407	117	0%	19/12 16/6
	eodorization System No. 12	200 days	Fri 10/9/21	Wed 18/5/22		IA -58.5 days		0%	10/9
	Excavation to Formation	20 days	Fri 10/9/21	Tue 5/10/21		IA -58.5 days 2,385	411	0%	10/9 5/10
	Plate Load Test	18 days	Wed 6/10/21	Wed 27/10/21		IA -58.5 days 410	412	0%	6/10 ■ 27/10
BE.	R.C. Plinth	20 days	Thu 28/10/21	Fri 19/11/21		IA -58.5 days 411,131,387	413,88	0%	28/10 19/11
5	Surrounding Site formation works and road works	180 days	Sat 20/11/21	Wed 18/5/22		IA 491.5 days 412	117	0%	20/11 18/5
	nderpass & Pump House	711 days	Thu 20/2/20	Sat 16/7/22		A 353.5 days		13%	20/2
	Temporary Storage for H pile works and access for DSD	150 days	Thu 20/2/20	Fri 21/8/20		IA 0.5 days 284SS-14 days	417	85%	20/2 21/8
	Stage 1 (Bay A1 - B2)	452 days	Mon 4/1/21	Sat 16/7/22		A -108.5 days		0%	4/1
	Sheet Pile Installation + ELS Works (incl. Strut (2-layers) Installation & Excavation	50 days	Mon 4/1/21	Fri 5/3/21		IA -108.5 days 15,287,257,415	418	0%	4/1 5/3
	R.C. Structure	80 days	Sat 6/3/21	Tue 15/6/21		IA -108.5 days 417,131,203	419	0% 10	6/3 15/6
4	Backfilling and Road works reinstatement	30 days	Wed 16/6/21	Wed 21/7/21		IA -108.5 days 418	423,420,111	0%	16/6 21/7
	Surrounding Site formation works and road works	180 days	Thu 22/7/21	Mon 17/1/22		IA 432.5 days 419	421	0%	22/7 17/1
/5	ABWF & BS Works	180 days	Tue 18/1/22	Sat 16/7/22		IA 432.5 days 420	117	0%	18/1 16/7
	Stage 2 (Bay B3)	264 days	Thu 22/7/21	Mon 13/6/22		A -108.5 days		0%	22/7
	TTA implementation at Chuk Wan Street southeast bound	2 days	Thu 22/7/21	Fri 23/7/21		IA -108.5 days 419	424	0%	22/7   23/7

## Updated Programme (Status Date: 28/02/2021)



KD Task	k Name	Duration	Start	Finish	Actual Start	Actual Finish	Total	Slack Predecessors	Successors	% Time Risk Comple Allowance	2019   2020   2021   2022   2023   2024   2020   201   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q1   Q2   Q3   Q4   Q1   Q1   Q1   Q1   Q1   Q1   Q1
	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	A -108.5	5 days 423	425	0%	24/7 = 27/8
	R.C. Structure	45 days	Sat 28/8/21	Fri 22/10/21	NA	NA	A -108.5	5 days 424	426	0%	28/8 22/10
	Backfilling and Reinstatement Works	20 days	Sat 23/10/21	Mon 15/11/21	NA	NA	A -108.5	5 days 425	427	0%	23/10 15/11
		2 days	Tue 16/11/21	Wed 17/11/21	NA			5 days 426	428	0%	16/11   17/11
	Sheet Pile Installation + ELS Works (incl. Strut (2-layers) Installation & Excavation	20 days	Thu 18/11/21	Fri 10/12/21	NA	NA	A -108.5	5 days 427	429	0%	18/11 10/12
		45 days	Sat 11/12/21	Tue 8/2/22	NA	NA	A -108.5	5 days 428	430	0%	11/12 8/2
V4	Backfilling and Road works reinstatement	30 days	Wed 9/2/22	Tue 15/3/22	NA			5 days 429	431,111	0%	9/2 15/3
V5	ABWF & BS Works	90 days	Wed 16/3/22	Mon 13/6/22	NA			days 430	117	0%	16/3 13/6
P	ipe Works and Utility Installation	1470 days	Fri 22/11/19	Sat 16/11/24	Fri 22/11/19		A 0 da	•		4%	22/11
	Pipe Works At Chuk Wan Street	601 days	Fri 22/11/19	Wed 1/12/21	Fri 22/11/19		A 534.5	•		29%	22/11 1/12
	Drainage Diversion (Existing Drainage Culvert)	542 days	Fri 22/11/19 Fri 22/11/19	Mon 20/9/21 Fri 29/11/19	Fri 22/11/19	Fri 29/11/19		5 days 223,186 ays 124,145,150,146,13	1.426	<b>43%</b> 100%	22/11 22/11 29/11
	Stage 1 - Drainage Diversion of Drainage btw Reconstructed Storm Water Manhole SMH1003177A and Reconstructed Storm Water Manhole MHD33 - A	r uays	FII 22/11/19	FII 29/11/19	Fri 22/11/19	FII 29/11/18	9 00	ays 124,145,150,146,15	1, 430	100%	22/11   29/11
	Stage 1 - Drainage Diversion of Drainage btw Reconstructed Storm Water Manhole SMH1003177A and Reconstructed Storm Water Manhole MHD33 - A and Additional concrete surround at MH18, MH16 and additional manhole (Type 1) [	90 days	Mon 6/1/20	Mon 27/4/20	Mon 6/1/20	Mon 27/4/20	0 0 da	ays 435	437	100%	6/1 27/4
1A	Stage 1 - Backfilling Works for Drainage Diversion	9 days	Tue 28/4/20	Sat 9/5/20	NA	NA		ays 436	228	0%	28/4 <del>⊚ 9/5</del>
1A	Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisiting Drainage Culvert (1 Cell, 1000mm x 1150mm) within Portion C-1A & C-1B	60 days	Thu 29/4/21	Mon 12/7/21	NA	NA	A -147.5	5 days 461	439	0%	29/4 12/7
V1	Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng Drainage Culvert (1 Cell, 1000mm x 1150mm) outside Portion C-1A & C-1B	60 days	Tue 13/7/21	Mon 20/9/21	NA	NA	A -147.5	5 days 438	93	0%	13/7 20/9
4	Trenchless Work for Pipe Installation	438 days	Sat 13/6/20	Wed 1/12/21	Sat 13/6/20	NA	A 534.5	days		23%	13/6
	Installation of Monitoring Points	4 days	Sat 13/6/20	Wed 17/6/20	Sat 13/6/20	Wed 17/6/20	0 0 da	ays	443	100%	13/6   17/6
	, , ,	95 days	Thu 18/6/20	Sat 10/10/20	Thu 18/6/20	Sat 10/10/20		• •		100%	18/6 10/10
		0 days	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20		•	444	100%	♦ 18/6
	Pit Construction (11m x 9m) (NCE no. 44,49)	89 days	Fri 26/6/20	Sat 10/10/20	Fri 26/6/20	Sat 10/10/20		,	447	100% 18,15	26/6 10/10
	Pipe Jacking Operation	193 days	Tue 1/9/20	Wed 28/4/21	Mon 12/10/20	NA		•		18%	1/9 28/4
	Twin DN900 DI pipe (CHAT & CHAU)	107 days	Tue 1/9/20	Sat 9/1/21	Mon 12/10/20	NA		,		18% (x)	•
		24 days 26 days	Mon 12/10/20 Thu 19/11/20	Mon 9/11/20 Fri 18/12/20	Mon 12/10/20 Thu 19/11/20		A 24 d	days 444 days 447	448 451,449	29% 17 62% 8,2	12/10 <b>1</b> 9/11 <b>1</b> 8/12
	Tipe darking operation for other brood of pipe (donn, difficulty) (NOE 110.32)	20 days	1110 13/11/20	111 10/12/20	1110 13/11/20	14/1	720	udy5 447	401,440	0270 0,2	
	Setting Up of Entrance Ring & Gantry, and Trenchless Equipment	7 days	Sat 19/12/20	Fri 25/12/20	NA	NA	A -49 c	days 448	450	0%	19/12 ⊚ 25/12
	Pipe Jacking Operation for CHAU DN900 DI pipe (30m, 3m/day)	16 days	Sat 26/12/20	Sun 10/1/21	NA	NA		days 449	451	0%	26/12 10/1
		7 days	Mon 11/1/21	Mon 18/1/21	NA	NA			452	0%	11/1 @ 18/1
	Pipe Laying Works	25 days	Tue 19/1/21	Fri 19/2/21	NA			days 451	453	0%	19/1 19/2
	• •	7 days	Sat 20/2/21	Sat 27/2/21	NA			days 452		0%	20/2 🏟 27/2
	Backfilling works	14 days	Tue 13/4/21	Wed 28/4/21	NA			days 461SS		0%	13/4 28/4
		80 days	Mon 18/1/21	Wed 28/4/21	NA NA		A -147.5	-	457	0% (x)	18/1 28/4
		7 days	Mon 18/1/21	Mon 25/1/21	NA NA		A -147.5		457	0%	18/1 © 25/1
	Pipe Jacking Operation for twin DN2200 DI pipe	30 days	Tue 26/1/21	Thu 4/3/21	NA			5 days 456	458	0% 16->30	26/1 4/3
	• • • • • • • • • • • • • • • • • • • •	7 days 18 days	Fri 5/3/21 Sat 13/3/21	Fri 12/3/21 Wed 7/4/21	NA NA			5 days 457 5 days 458	459 460	0% 0% 10->18	5/3 12/3 13/3 7/4
	Pipe Laying Works Formwork Erection and grouting works	4 days	Thu 8/4/21	Mon 12/4/21	NA NA			5 days 459	462,461	0% 10->18	8/4   12/4
		14 days	Tue 13/4/21	Wed 28/4/21	NA NA			5 days 459 5 days 460	462,454SS,438		13 4 28/4
	Reinstatement of Temporary Launching Pit	30 days	Thu 29/4/21	Fri 4/6/21	NA NA			days 460,461	463	0%	29/4 4/6
/5	Surrounding Site formation works and road works	180 days	Sat 5/6/21	Wed 1/12/21	NA NA			i days 462	117	0%	5/6 1/12
	Process Pipeworks, All Sewerage, Utilities & Roadworks in Portion C of the Site	498 days	Sat 18/7/20	Mon 21/3/22	Sat 18/7/20		A -113.5	•	111	1%	18/7
		355 days	Sat 18/7/20	Sat 25/9/21	Sat 18/7/20		A 0 da	•		7%	18/7
1A		355 days	Sat 18/7/20	Sat 25/9/21	Sat 18/7/20		A 0 da			7%	18/7 25/9
		355 days	Sat 18/7/20	Sat 25/9/21	Sat 18/7/20	NA		•		7%	18/7
		220 days	Sat 18/7/20	Thu 22/7/21	Sat 18/7/20	NA		•	470,469FF	15% 26	18/7 22/7
	DN150,350 (CHA, CHLA) Pipe Laying (+4.8mPD)	40 days	Tue 1/6/21	Thu 22/7/21	NA	NA	A 0 da	ays 468FF		0%	1/6 22/7
	CHAM, CHAN Pipe Laying (+2.0mPD)	25 days	Fri 23/7/21	Fri 20/8/21	NA	NA	A 0 da	ays 468	471	0%	23/7 20/8
	Concrete Pipe between MHD26 and SMH1003177A (+3.6mPD)	30 days	Sat 21/8/21	Sat 25/9/21	NA	NA	A 0 da	ays 470		0%	21/8 25/9
		86 days	Mon 8/3/21	Wed 23/6/21	NA	NA		•	473	0% 30	8/3 23/6
		50 days	Thu 24/6/21	Sat 21/8/21	NA			ays 472		0%	24/6 21/8
4		350 days	Thu 14/1/21	Mon 21/3/22	NA			5 days 136,288,330,196,19		0%	14/1
4		350 days	Thu 14/1/21	Mon 21/3/22	NA			5 days 136,288,330,187	111	0%	14/1
4	Sewerage Pipeworks, manhole, protective lining & testing works	350 days	Thu 14/1/21	Mon 21/3/22	NA			5 days 136,288,330,193	111	0%	14/1
4	Watermain Pipeworks & testing works	350 days	Thu 14/1/21	Mon 21/3/22	NA 			5 days 136,288,330,190,19		0%	14/1 21/3
4	Cable & Other Underground Utility Pipeworks	350 days	Thu 14/1/21	Mon 21/3/22	NA NA			5 days 136,288,330	111	0%	21/3
4	Pipe Bridge No.1	175 days	Mon 2/8/21	Thu 3/3/22	NA NA			days 2	111	0% <b>0%</b>	2/8 3/3
5	Remaining Works & Landscape Works Irrigation System	<b>1261 days</b> 970 days	Sat 8/8/20 Sat 8/8/20	Sat 16/11/24 Wed 15/11/23	NA NA		A -43.5 Δ -43.5	days 2FS+265 days	117	0%	8/8
5 5	Hard Landscape Works	970 days	Sat 8/8/20	Wed 15/11/23 Wed 15/11/23	NA NA			days 2FS+265 days	117	0%	8/8
5 '5	•	970 days	Sat 8/8/20	Wed 15/11/23 Wed 15/11/23	NA NA			days 2FS+265 days	489,117	0%	8/8
	Outfall for Effluent Pipes	124 days	Tue 1/11/22	Fri 31/3/23	NΔ	NA NA			117	0%	1/11 31/3
	Slope Formation Works near Outfall	124 days	Tue 1/11/22	Fri 31/3/23	NΔ	NA NA		•	117	0%	1/11 31/3
	Removal of invasive trees along River Embankment (NCE no. 37)	90 days	Wed 15/2/23	Wed 7/6/23	NA NA	NA NA		•	487	0%	15/2 7/6
5	Retaining Wall along River Embankment, street furniture & road works	90 days	Wed 7/6/23	Fri 22/9/23	NA NA	NA NA			117	0%	7/6 22/9
/5	Remaining Site formation works, road works and boundary fence wall	250 days	Mon 25/7/22	Sat 1/4/23	NA NA		A 174	•	117	0%	25/7
	• • • • • • • • • • • • • • • • • • • •	291 days	Thu 16/11/23	Sat 16/11/24	NA NA		A 0 da	•		0%	16/11 16/11
						-		and the second s			

Updated Programme (Status Date: 28/02/2021)

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

Task Milestone ◆

Summary Critical



) KD T	ask Name	Duration	Start	Finish	Actual Start	Actual Finish Total Slac	k Predecessors		% Time Risk Comple Allowance	2019   2020   2021   2022   2023   2024   2025   Q1   Q2   Q3   Q4   Q1   Q3
491 *	CLP 132kV Substation	911 days	Wed 27/11/19	Thu 22/12/22	Wed 27/11/19	NA -18.5 days	3		23%	27/11 22 33 37 37 32 33 37 37 37 37 37 37 37 37 37 37 37 37
192	Internal Works	752 days	Wed 27/11/19	Wed 15/6/22	Wed 27/11/19	NA 140.5 days	3		32%	27/11
93	Site Clearance & Site Set Up	4 days	Tue 10/12/19	Fri 13/12/19	Tue 10/12/19	Fri 13/12/19 0 days	2	494	100%	10/12   13/12
94	Additional Tree Felling Works (NCE no.29)	4 days	Fri 20/12/19	Mon 23/12/19	Fri 20/12/19	Mon 23/12/19 0 days	493	496	100%	20/12   23/12
95	Trial Pit Excavation & UU Detection Works	0 days	Mon 2/12/19	Thu 12/12/19	Mon 2/12/19	Thu 12/12/19 0 days	2	497	100%	2/12 12/12
196	Additional Demolition of existing warehouse structure (NCE no.002)	28 days	Wed 27/11/19	Tue 31/12/19	Wed 27/11/19	Tue 31/12/19 0 days	494	497	100%	27/11 31/12
197	Predrilling Works (11no., 1rig, 3days/drillhole/rig) (NCE no. 10)	11 days	Sat 4/1/20	Thu 16/1/20	Sat 4/1/20	Thu 16/1/20 0 days	126,495,178,496	498	100%	4/1 🛮 16/1
198	Installation of Monitoring Points	4 days	Thu 16/1/20	Mon 20/1/20	Thu 16/1/20	Mon 20/1/20 0 days	497	499	100%	16/1   20/1
499	Setting up plant for pre-bored socked H-pile Installation (PMI no.005, NCE no. 0022)	5 days	Tue 25/2/20	Sat 29/2/20	Tue 25/2/20	Sat 29/2/20 0 days	498	500	100%	25/2   29/2
500	Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile) (NCE no. 18A, 19, 25 & 27))	61 days	Mon 2/3/20	Mon 18/5/20	Mon 2/3/20	Mon 18/5/20 0 days	127,499	501,303,503	100% 6	2/3 18/5
501	Pile Load Test	22 days	Tue 19/5/20	Fri 12/6/20	Tue 19/5/20	Fri 12/6/20 0 days	500	502,329FS+5 day	y 100%	19/5 ■ 12/6
502	Sheetpile Installation (NCE no. 10, 23, 36)	18 days	Fri 3/7/20	Thu 23/7/20	Fri 3/7/20	Thu 23/7/20 0 days	501,129	507,505	100% 6	3/7 ■ 23/7
503	CHP Cable Diversion Works (NCE no.23, 36, 32 & 41))	101 days	Fri 29/5/20	Fri 25/9/20	Fri 29/5/20	Fri 25/9/20 0 days	500	505	100%	29/5 25/9
504	Watermain diversion and relocation of water meter (NCE no. 15, 36)	60 days	Sat 13/6/20	Mon 24/8/20	Sat 13/6/20	Mon 24/8/20 0 days	501	505	100%	13/6 24/8
05	Excavation Works (NCE no.16)	50 days	Sat 26/9/20	Thu 26/11/20	Sat 26/9/20	NA -72.5 days	502,503,504	506	70%	26/9 💽 26/11
606	R.C. Structure (880 sq.m)	215 days	Fri 27/11/20	Fri 20/8/21	Fri 27/11/20	NA -90 days	204,205,206,131,2	203,	40% 10	27/11 20/8
507	Installation of earthmat	7 days	Fri 27/11/20	Fri 4/12/20	Fri 27/11/20	Fri 4/12/20 0 days	204,205,206,131,2	203,508	100%	27/11   4/12
808	Basement	58 days	Sat 5/12/20	Wed 17/2/21	Sat 5/12/20	Wed 17/2/21 0 days	507	509	100%	5/12 17/2
09	Ground Floor	60 days	Thu 18/2/21	Tue 4/5/21	Thu 18/2/21	NA -197.5 days	s 508	510	35%	18/2 4/5
10	First Floor	50 days	Wed 5/5/21	Mon 5/7/21	NA	NA -197.5 days	s 509	511	0%	5/5 === 5/7
11	Roof Floor (461sq.m)	40 days	Tue 6/7/21	Fri 20/8/21	NA	NA -197.5 days	s 510	512,517,513,518	IF 0%	6/7 20/8
512	ABWF Works	60 days	Sat 21/8/21	Tue 2/11/21	NA	NA -197.5 days	511,207,133	61	0%	21/8 2/11
513	BS Works	60 days	Sat 21/8/21	Tue 2/11/21	NA	NA -197.5 days	s 511,133	61	0%	21/8 2/11
514	Backfilling reinstatement & road works	60 days	Sat 21/8/21	Tue 2/11/21	NA	NA -197.5 days	s 511	61	0%	21/8 2/11
515	Installation of telephone line/ direct link for FSD Inspection	60 days	Sat 21/8/21	Tue 2/11/21	NA	NA -197.5 days	s 511	61	0%	21/8 2/11
516	Building Services Installation Works (incl. Fire Services, Plumbing, Drainage, etc.) & FSD Inspection	60 days	Sat 21/8/21	Tue 2/11/21	NA	NA -197.5 days	511	61	0%	21/8 2/11
517 KD2A	Architectual Works	60 days	Sat 21/8/21	Tue 2/11/21	NA	,		519,520,61	0%	21/8 2/11
18 KD2A	Prehandover to CLP	12 days	Wed 20/10/21	Tue 2/11/21	NA		s 511FS+48 days	61	0%	20/10 2/11
19	Handover to CLP for Electrical System Installation	30 days	Wed 3/11/21	Tue 7/12/21	NA			522,521	0%	3/11 7/12
520	E&M Installation, Testing & Commissioning by CLP	180 days	Wed 3/11/21	Wed 15/6/22	NA		517	99	0%	3/11 15/6
521	Testing & Commissioning of the E&M Works	90 days	Wed 8/12/21	Tue 29/3/22	NA			99	0%	8/12 29/3
522	ABWF Works - External Finishing	90 days	Wed 8/12/21	Tue 29/3/22	NA			523	0%	8/12 29/3
523 SW2	Inspection and Handover to CLP	30 days	Wed 30/3/22	Tue 10/5/22	NA			535,99	0%	30/3 10/5
524	External Works	513 days	Thu 1/4/21	Thu 22/12/22	NA				0%	1/4 22/12
525	Road Widening Works (NCE no. 20)	388 days	Thu 1/4/21	Tue 26/7/22	NA				0%	1/4 26/7
26	Trial Pit Excavation & UU Detection Works	7 days	Thu 1/4/21	Tue 13/4/21	NA	, .		527	0%	1/4 13/4
27	Diversion of existing UU (i.e. 3no. Street light)	60 days	Wed 14/4/21	Fri 25/6/21	NA			528	0%	14/4 25/6
28	Temporary Site Access	30 days	Sat 26/6/21	Sun 25/7/21	NA			530	0%	26/6 25/7
29	Drainage Works	150 days	Mon 26/7/21	Sat 22/1/22	NA	,			0%	26/7 22/1
30	Trench Excavation and ELS works	60 days	Mon 26/7/21	Tue 5/10/21	NA			531	0%	26/7 5/10
31	Pipe Laying Works	60 days	Wed 6/10/21	Wed 15/12/21	NA			532	0%	6/10 15/12
32	Backfilling and Reinstatement Works	30 days	Thu 16/12/21	Sat 22/1/22	NA	, .		534,533	0%	16/12 22/1
533	Cable & Other Underground Utility Pipeworks	42 days	Mon 24/1/22	Wed 16/3/22	NA	, .		534	0%	24/1 16/3
534	Road Works	105 days	Thu 17/3/22	Tue 26/7/22	NA			535,99	0%	17/3 26/7
535 SW2	Construction of New Boundary Wall	125 days	Wed 27/7/22	Thu 22/12/22	NA	NA -18.5 days	523.534	99	0%	27/7 22/12

Contract No. DC/2018/07
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Revised Works Programme (Status Date: 31/1/2021)
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

ivity ID Key Date	reatment Facilities Task Name	NCE/ECE/Baseline Baseline Stort	Baseline Finish	Duration	Start	Finish And	tual Start Ann	ual Finish Predecessors	Successors Total Sleek	Risk Allowance % Complete Individual Critical Path	2019 2020	2021	2022	2022	2024
-1000	Task Name Contract Dates	NCE/ECE/Baseline Baseline Start Duration 1585 days Mon 18/11/19	Baseline Finish Thu 27/3/25	Duration 1585 days	Start Mon 18/11/19	Finish Act	Mon 18/11/19	tual Finish Predecessors	Successors Total Slack  25 days	Risk Allowance % Complete Individual Critical Path	July January July	January July	January July	2023 January July	January July
1010	Starting Date	0 days Mon 18/11/19	Mon 18/11/19	0 days				Mon 18/11/19	35FS+1461 days,36FS+901 0 days	100%	♦ 18/11	1		1	1
00	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	Wed 2/9/20	0 days	100%		i		İ	i
10	Portion B-1 (Access Road AR3)	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	207 0 days	100%	<b>♦</b> 18/11	I I		1	I I
0	Portion B-1A (Area for the works for Sidestream Treatment Facilities 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% /	<b>♦</b> 18/11	1		1	1
	Portion B-2 (Inlet Works No.1)	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	297,308 0 days	100%	<b>♦</b> 18/11	i		İ	į
	Portion B-2A (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%	<b>♦</b> 18/11	1	I I	1	1
	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	Mon 18/11/19 2	332 0 days	100%	<b>♦</b> 18/11	i	i	i	į
	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 2	347 0 days	100%	♦ 18/11	1		1	I
)	Portion B-5 (Membrane Facilities Building No.2)	0 days Mon 18/11/19	Mon 18/11/19	0 days	Tue 17/3/20	Tue 17/3/20	Tue 17/3/20	Tue 17/3/20 2	376,394,399 0 days	100%	<b>♦</b> 17/3	1	1	I.	1
	Portion B-6 (SAS Pumping Station)	0 days Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19		Mon 18/11/19 2	408 0 days	100%	<b>♦ 18/11</b>	I I		1	I I
0	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	430 0 days	100%	<b>♦ 18/11</b>	1		1	1
)	Portion B-7A (Alternation works for existing Power House)	0 days Wed 2/9/20	Wed 2/9/20	0 days		Wed 2/9/20	Wed 2/9/20	Wed 2/9/20 2FS+290 days	486FS-1 day,29FS+151 days 0 days	100%	<b>♦</b> 2/9	İ			İ
)	Portion B-8 (Alternation for existing Membrane Facilities Building No.1)	0 days Tue 22/9/20	Tue 22/9/20	0 days	Wed 26/8/20	Wed 26/8/20	Wed 26/8/20	Wed 26/8/20 2FS+311 days	487FS-1 day 0 days	100%	♦ 26/8 ♦ 18/11	1	1	1	1
)	Portion B-8A (Alternation of air supply main for existing Air Blower House No.2)  Portion B-9 (remainder works in Zone B)	0 days Mon 18/11/19 0 days Mon 18/11/19	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	Mon 18/11/19 2 Mon 18/11/19 2	479 0 days 488,503 0 days	100%	♦ 18/11 ♦ 18/11	į		İ	İ
)	Portion B-9 (remainder works in Zone B)  Portion B-9A (Area for the pipe-jacking works by others)	0 days Mon 18/11/19 0 days Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days				Mon 18/11/19 2 Mon 18/11/19 2	488,503 0 days	100%	◆ 18/11 ◆ 18/11	I I		1	I I
)	Portion B-9B (Area for underground pipework modification and connection works by	0 days Mon 18/11/19	Mon 18/11/19	0 days		Mon 18/11/19		Mon 18/11/19 2	0 days	100%	♦ 18/11	1	1	1	1
	others)	,		2 00.75								İ		Ì	i
)	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 2FS+151 days	0 days	100%	<b>♦</b> 24/7	1	I I	I I	1
	Key Dates (cal. day)	1440 days Tue 19/11/19	Sat 28/10/23	1440 days	Tue 19/11/19	Sat 28/10/23	Tue 19/11/19	NA	452 days	40%	<b>↓</b> 19/11				1
	KD1A completion of AR3 in Portion B-1 (300days after starting date)	300 days Tue 19/11/19	Sun 13/9/20	300 days	Tue 19/11/19	Sun 13/9/20	Tue 19/11/19	Sun 13/9/20 2FS+1 day	67 0 days	100%		I I	I I	1	I I
	KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (360days after starting date)	on 360 days Tue 19/11/19	Thu 12/11/20	360 days	Tue 19/11/19	Thu 12/11/20	Tue 19/11/19	Thu 12/11/20 2FS+1 day	73 0 days	100%		I I		1	1
+	KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2	990 days Tue 19/11/19	Thu 4/8/22	990 days	Tue 19/11/19	Thu 4/8/22	Tue 19/11/19	NA 2FS+1 day	79 902 days	38%		1		İ	i
	(990days after starting date)											1		I I	I I
	KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)	1190 days 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	0 days	32%		<i></i>		2222	į
-	KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days	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	82 0 days	33%					I I
	after starting date)			,0							1			1	1
	KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (780days after starting date)	800 days Tue 19/11/19	Wed 26/1/22	780 days	Tue 19/11/19	Thu 6/1/22	Tue 19/11/19	NA 2FS+1 day	86 20 days	0%		l I		i I	İ
-	KD1G completion of civil and structural works of MFB in Portion B-5 (930days after	950 days Tue 19/11/19	Sat 25/6/22	930 days	Tue 19/11/19	Sun 5/6/22	Tue 19/11/19	NA 2FS+1 day	90 20 days	41%	i	1	1	1	1
1	starting date)	550 days   100 15/11/19	Jun 2010122	550 uays	.ue 13/11/19	Jun 3/0/22	100 10/11/19	To T day	20 days	71/0	1 1	İ	1	1	į
)	KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)	630 days Tue 19/11/19	Mon 9/8/21	630 days	Tue 19/11/19	Mon 9/8/21	Tue 19/11/19	NA 2FS+1 day	94 0 days	60%				 	1
-		150 down 5-1 4/0/00	Qup 04/4/04	0.4	Cot 20/4 /01	Cot 20/4 /04	NA	NA 13FS+151 days	4 4	00/	<b>.</b>	30/1		İ	İ
)	KD1I completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)	150 days Fri 4/9/20	Sun 31/1/21	0 days	Sat 30/1/21	Sat 30/1/21	NA	IVA 19F9+191 days	1 day	0%		<b>30/1</b>	I I	1	I I
	KD1J completion of auxiliary facilities in Portion B-7 (800days after starting date)	800 days Tue 19/11/19	Wed 26/1/22	0 days	Wed 26/1/22	Wed 26/1/22	Wed 26/1/22	NA 2FS+801 days	0 days	99%	1	I I	<b>♦ 26/1</b>	1	1
	KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)	495 days Tue 19/11/19	Sat 27/3/21	0 days	Sat 27/3/21	Sat 27/3/21	Sat 27/3/21	NA 2FS+496 days	101 0 days	99%	1 :	<b>♦</b> 27/3		İ	i
)		420 doing Tim 40/44/12	Mon 11/1/21	0	Man 14/4/04	Mon 11/1/21	Mon 11/1/21	NA 2EC, 421 days	104	000/		 		I I	I I
	KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A (420days after starting date)	420 days Tue 19/11/19	WOII 11/1/21	0 days	Mon 11/1/21	w0f1 11/1/21	wori 11/1/21	NA 2FS+421 days	104 0 days	99%	<b>^</b>	Ţ		İ	İ
	KD3A completion of all utilities and road works (1440days after starting date)	1440 days Tue 19/11/19	Sat 28/10/23	0 days	Sat 28/10/23	Sat 28/10/23	Sat 28/10/23	NA 2FS+1441 days	111 0 days	99%		I I	I I	<b>♦ 2</b>	28/10
0	Completion Date (cal. Day)	1956 days Tue 19/11/19	Thu 27/3/25	1056 days	Fri 6/5/22	Thu 27/3/25	NA	NA	0 days	0%		I I	♦ 6/5	1	1
0	Section 1 of the Works (1,460 after starting date)	1460 days Tue 19/11/19	Fri 17/11/23	0 days	Fri 17/11/23	Fri 17/11/23	NA	NA 2FS+1461 days	117 0 days	0%		İ		•	17/11
)	Section 2 of the Works (900 after starting date)	900 days Tue 19/11/19	Fri 6/5/22	0 days	Fri 6/5/22	Fri 6/5/22	NA	NA 2FS+901 days	123 0 days	0%		1	<b>♦</b> 6/5	1	I I
0	Section 3 of the Works (1,590 after starting date)	1590 days Tue 19/11/19	Tue 26/3/24	0 days		Tue 26/3/24	NA	NA 2FS+1591 days	39FS+366 days,129,38FS+3 0 days	0%		į		İ	♦ 26/3
0	Defects Liability Period	365 days Wed 27/3/24	Thu 27/3/25	0 days	Thu 27/3/25	Thu 27/3/25	NA	NA 37FS+366 days	0 days	0%		1	I I	1	
0	Landscape Establishment Works	005 1	The compared			T1 071111		NA OZEO COO I		001	' '				
*		365 days Wed 27/3/24	Thu 27/3/25	0 days		Thu 27/3/25 Fri 25/4/25	NA Mon 14/9/20	NA 37FS+366 days	29 days	0%	4 14/0	<u> </u>		!	1
	Planned Completion - Key Dates (cal. day)	365 days Wed 27/3/24 1686 days Fri 14/8/20 1170 days Fri 14/8/20	Thu 27/3/25  Thu 27/3/25  Sat 28/10/23	0 days 1685 days 1123 days	Mon 14/9/20	Fri 25/4/25	NA Mon 14/9/20 Wed 30/9/20		29 days 0 days 0 days	0% 8% 0%	<b>↓ 14/9</b>				
) *	Planned Completion - Key Dates (cal. day)	1686 days Fri 14/8/20	Thu 27/3/25	1685 days	Mon 14/9/20 Wed 30/9/20	Fri 25/4/25 Sat 28/10/23	Mon 14/9/20	NA	0 days	8%	<b>↓ 14/6 ♦ 30/9</b>				1
KD1	Planned Completion Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio	1686 days Fri 14/8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20	Thu 27/3/25 Sat 28/10/23	1685 days 1123 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20	Fri 25/4/25 Sat 28/10/23	Mon 14/9/20 Wed 30/9/20	NA NA	0 days 0 days 0 days	8% 0%	◆ 14/3 ◆ 30/9	<b>♦</b> 29/7		1	
KD1/	Planned Completion Planned Completion - Key Dates (cal. day)  IA KD1A completion of AR3 in Portion B-1 (300days after starting date)  IB KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (360days after starting date)	1686 days Fri 14/8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20 on 0 days Fri 14/8/20	Thu 27/3/25  Sat 28/10/23  Sat 12/9/20  Fri 14/8/20	1685 days 1123 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA	NA NA Wed 30:9/20 216FF NA 218FF,296FF,286FF,293FF,256FF,254F	0 days 0 days 0 days -259 days	8% 0%	◆ 14/9 ◆ 30/9	 			
0 * D KD1/ 0 KD1/ 0 KD1/	Planned Completion Planned Completion - Key Dates (cal. day)  IA KD1A completion of AR3 in Portion B-1 (300days after starting date)  IB KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (360days after starting date)	1686 days Fri 14/8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20	1685 days 1123 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20	Fri 25/4/25 Sat 28/10/23	Mon 14/9/20 Wed 30/9/20	NA NA Wed 30/9/20 216FF	0 days 0 days 0 days	8% 0%	◆ 30/9	↓ ↓ ↓ ↓ ↓ ↓ ↓	♦ 6/8		
KD1/	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (360days after starting date)  KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)	1686 days Fri 14/8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20 on 0 days Fri 14/8/20	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22	1685 days 1123 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA	NA NA Wed 30:9/20 216FF NA 218FF,296FF,286FF,293FF,256FF,254F	0 days 0 days 0 days -259 days -2 days	8% 0% 100% 0%	◆ 30/9	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>♦</b> 6/8	<b>1</b>	
KD1/	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (360days after starting date)  KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)	1686 days Fri 14.8/20 1170 days Fri 14.8/20 0 days Sat 12/9/20 on 0 days Fri 14/8/20 0 days Thu 4/8/22	Thu 27/3/25  Sat 28/10/23  Sat 12/9/20  Fri 14/8/20	1685 days 1123 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA	NA NA Wed 30:9/20 216FF NA 218FF.296FF.296FF.293FF.256FF.254F NA 329FF.329FF.320FF.324FF NA 343FF.342FF	0 days 0 days 0 days -259 days	8% 0% 100% 0% 0%	◆ 30/9	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>♦</b> 6/8	<b>♦</b> 20/2	
KD1/ KD1I KD1/ KD1/	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (360days after starting date)  KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days	1686 days Fri 14.8/20 1170 days Fri 14.8/20 0 days Sat 12/9/20 on 0 days Fri 14/8/20 0 days Thu 4/8/22	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22	1685 days 1123 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA	NA Wed 30/9/20 216FF NA 218FF 296FF 286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF	0 days 0 days 0 days -259 days -2 days	8% 0% 100% 0% 0%	◆ 30/9	♦ 29/7	◆ 6/8	◆ 20/2 ◆ 30/1	
) * ) KD1/ ) KD1/ ) KD1/ ) KD1/ ) KD1/	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1D completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)	1686 days Fri 14/8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Thu 4/8/22 0 days Mon 20/2/23 0 days Sat 31/12/22	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA	NA NA Wed 30/9/20 216FF NA 218FF,296FF,293FF,256FF,254F NA 329FF,329FF,324FF NA 343FF,342FF NA 367FF,368FF	0 days 0 days 0 days -259 days -2 days 0 days -2 days -30 days	8% 0% 100% 0% 0% 0% 0%	◆ 30.9	◆ 29/7			
) * ) KD11 ) KD11 ) KD11 ) KD11 ) KD11	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1D completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)	1686 days Fri 14/8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Thu 4/8/22 0 days Mon 20/2/23 0 days Sat 31/12/22	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23	1685 days 1123 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA	NA NA Wed 30:9/20 216FF NA 218FF.296FF.296FF.293FF.256FF.254F NA 329FF.329FF.320FF.324FF NA 343FF.342FF	0 days 0 days 0 days 0 days -259 days -2 days 0 days	8% 0% 100% 0% 0% 0%	◆ 30/9	<b>↓</b> 29/7	◆ 6/8 ◆ 5/9		
KD1/ KD1/ KD1/ KD1/ KD1/ KD1/	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (300days after starting date)  KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (900days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Brievactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)	1686 days Fri 14/8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Thu 4/8/22 0 days Mon 20/2/23 0 days Sat 31/12/22	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 5/9/22	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA	NA NA Wed 30/9/20 216FF NA 218FF,296FF,293FF,256FF,254F NA 329FF,329FF,324FF NA 343FF,342FF NA 367FF,368FF	0 days 0 days 0 days -259 days -2 days 0 days -2 days -30 days	8% 0% 100% 0% 0% 0% 0%	◆ 30.9	<b>◆</b> 29/7			
KD1/i KD1/i KD1/i KD1/i KD1/i KD1/i KD1/i KD1/i KD1/i	Planned Completion  Planned Completion - Key Dates (cal. day)  IA KD1A completion of AR3 in Portion B-1 (300days after starting date)  IB KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (360days after starting date)  IC KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  ID KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  IE KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  IF KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  IG KD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)	1686 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Thu 4/8:22 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Tue 25/1/22 0 days Sat 25/6/22	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA	NA NA Wed 30:9/20 216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 405FF	0 days 0 days 0 days 0 days 259 days 2 days 0 days -30 days -242 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0%	◆ 30/9	◆ 29/7	<b>♦</b> 5/9	30/1	
KD1/I KD1/I KD1/I KD1/I KD1/I KD1/I	Planned Completion  Planned Completion - Key Dates (cal. day)  IA KD1A completion of AR3 in Portion B-1 (300days after starting date)  IB KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (360days after starting date)  IC KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  ID KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  IE KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  IF KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  IG KD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)	1686 days Fri 14.8/20 1170 days Fri 14.8/20 0 days Sat 12/9/20 on 0 days Fri 14/8/20 0 days Thu 4/8/22 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Tue 25/1/22	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA	NA NA Wed 30:9/20 216FF NA 218FF 296FF 296FF 293FF 256FF 254F NA 329FF 329FF 324FF NA 343FF 342FF NA 367FF 368FF NA 404FF	0 days 0 days 0 days 259 days -259 days 0 days -24 days -30 days -242 days	8% 0% 100% 0% 0% 0% 0% 0% 0%	◆ 30.9	◆ 29/7		30/1	
KD110 KD110	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1H completion after attarting date)	1686 days Fri 14.8/20 1170 days Fri 14.8/20 0 days Sat 12/9/20 on 0 days Fri 14/8/20 0 days Thu 4/8/22 0 days Mon 20/2/23 0 days Tue 25/1/22 0 days Sat 25/6/22 0 days Mon 9/8/21	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Tue 26/4/22	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA	NA NA Wed 30:9/20 216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 405FF	0 days 0 days 0 days 0 days 259 days 2 days 0 days -30 days -242 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0%		\$ 29/7	<b>♦</b> 5/9	30/1	
KD110 KD110	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  RD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  RD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  RD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  RD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  RD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  RD1C completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  RD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  RD1A completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  RD11 completion afternation works for existing Power House in Portion B-7A (150days after access date of B-7A)	1686 days Fri 14.8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Sat 30/1/21	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA	NA NA Wed 30:9/20 216FF NA 218FF.296FF.293FF,256FF.254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 405FF NA 405FF NA 405FF NA 405FF	0 days 0 days 0 days 0 days 259 days -259 days -2 days -30 days -242 days -242 days -260 days 0 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		\$0/1	<b>♦</b> 5/9	30/1	
No.   No.	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (980days after starting date)  KD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1G completion of civil and structural works of SAS Pumping Station in Portion B-6 (80days after starting date)  KD11 completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)	1686 days Fri 14.8/20 1170 days Fri 14.8/20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Thu 4/8/22 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Sat 30/1/21 0 days Wed 26/1/22	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA Wed 30:9/20 216FF NA 218FF,296FF,296FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 405FF NA 405FF NA 476FF,476FF,476FF,469FF,464FF,463F	0 days 0 days 0 days 0 days 259 days -259 days -2 days 0 days -242 days -242 days -242 days -260 days 0 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1 	<b>♦</b> 5/9	30/1	
KD1// KD1//	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (980days after starting date)  KD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1G completion of civil and structural works of SAS Pumping Station in Portion B-6 (80days after starting date)  KD11 completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)	1686 days Fri 14.8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Sat 30/1/21	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA	NA NA Wed 30:9/20 216FF NA 218FF.296FF.293FF,256FF.254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 405FF NA 405FF NA 405FF NA 405FF	0 days 0 days 0 days 0 days 259 days -259 days -2 days -30 days -242 days -242 days -260 days 0 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		\$0/1	<b>♦</b> 5/9	30/1	
No.   No.	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Infet Works No.1 in Portion B-2 (990days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1D completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-5 (190days after starting date)  KD1C completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1C completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD11 completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD11 completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)	1686 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Sat 30/1/21 0 days Wed 26/1/22 0 days Sat 27/3/21	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA Wed 30:9/20 216FF NA 218FF,296FF,296FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 405FF NA 405FF NA 476FF,476FF,476FF,469FF,464FF,463F	0 days 0 days 0 days 0 days 259 days 2 days 0 days -24 days -30 days -242 days -242 days -242 days -242 days -250 days -250 days 0 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1 	<b>♦</b> 5/9	30/1	
KD1/1 KD1/	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Infet Works No.1 in Portion B-2 (990days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1D completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1C completion of civil and structural works of MFB in Portion B-6 (950days after starting date)  KD11 completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD11 completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD11 completion of alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD12 completion of alternation works for existing Power House in Portion B-7A (150days after starting date)  ACCES completion of alternation alternation to existing air blower house No.2 in Portion B-8 (420days after starting date)	1686 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Sat 30/1/21 0 days Wed 26/1/22 0 days Sat 27/3/21	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA Wed 30:9:20 216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 405FF NA 426FF,470FF NA 426FF NA 426FF NA 426FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,463F	0 days 0 days 0 days 0 days 259 days -259 days -2 days 0 days -242 days -242 days -242 days -260 days 0 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<b>♦</b> 5/9	• 30/1       • 2/2	
KD11 KD11 KD11 KD11 KD11 KD11 KD11 KD11	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  RD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  RD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  RD1E completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  RD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  RD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  RD1E completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  RD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  RD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  RD11 completion afternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  RD11 completion of awaitary facilities in Portion B-7 (800days after starting date)  RD2A completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (426days after starting date)  RD2A completion of air starting date)	1686 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Thu 3/9/20 0 days Thu 3/9/20 0 days Sat 28/10/23	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Sat 28/10/23	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA Wed 30:9:20 216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 404FF NA 405FF NA 428FF,427FF NA 486FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,478FF	0 days 0 days 0 days 0 days 0 days -259 days -2 days 0 days -30 days -242 days -242 days -260 days 0 days -129.8 days -168 days 0 days	8%   0%   100%		30/1	<b>♦</b> 5/9	30/1	28/10
KD11 KD11 KD11 KD11 KD11 KD11 KD11 KD11	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  RD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1H completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD1J completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD1A completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (480days after starting date)  KD2B completion of auxiliary facilities in Portion B-8 (480days after starting date)  RD2B completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of auxiliary facilities in Portion B-8 (480days after starting date)  Portion B-8 (480days after starting date)	1686 days Fri 14/8/20 1170 days Fri 14/8/20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Thu 3/9/20 0 days Sat 28/10/23 1056 days Fri 6/5/22	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Sat 30/1/21 Sat 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Fri 25/4/25	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA Wed 30:9/20 216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 405FF NA 428FF,427FF NA 486FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 479FF,483FF NA 502FF NA	0 days 0 days 0 days 0 days 0 days 259 days 2 days 0 days -30 days -30 days -242 days -242 days -242 days -129.8 days -168 days 0 days 0 days	8% 0% 100% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<b>♦</b> 5/9	• 30/1       • 2/2	28/10
KD1   KD2   KD2	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  RD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1H completion of evil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1H completion of evil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1H completion of evil and structural works for existing Power House in Portion B-7A (150days after saccess date of B-7A)  KD1J completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of avil and structural works (1440days after starting date)  Planned Completion at utilities and road works (1440days after starting date)  Planned Completion Date (cal. Day)	1886 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Sat 28/10/23 1056 days Fri 6/5/22 0 days Wed 23/8/23	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/6/23	1685 days 1123 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/1/2/2 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Fri 25/4/25 Fri 24/1/25	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA Wed 30:9/20 216FF NA 218FF 296FF 286FF 293FF,256FF 254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 404FF NA 404FF NA 405FF NA 428FF,427FF NA 428FF,427FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 479FF,483FF NA 479FF,483FF NA 409FF NA 479FF,483FF NA 479FF,483FF NA 479FF,483FF NA 479FF,483FF	0 days 0 days 0 days 0 days 0 days 259 days 2 days 0 days 30 days -242 days -242 days -242 days -242 days -260 days 0 days 0 days -129.8 days -168 days 0 days 0 days 9 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>	• 30/1       • 2/2	28/10
KD14 KD11 KD11 KD11 KD11 KD11 KD11 KD11	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (980days after starting date)  KD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1C completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD14 completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD14 completion of alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD14 completion of alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD14 completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (495days after starting date)  KD2A completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (495days after starting date)  KD3A completion of all utilities and road works (1440days after starting date)  Planned Completion at all very main alternation to existing air blower house No.2 in Portion B-8 (495days after starting date)  Section 1 of the Works (1.460 after starting date)	1886 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Sat 25/6/22 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Sat 28/10/23 1056 days Fri 6/5/22 0 days Wed 23/8/23 0 days Fri 6/5/22	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/22	1685 days 1123 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25 Wed 17/8/22	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Fri 25/4/25 Fri 24/1/25 Wed 17/8/22	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA Wed 30:9/20 216FF NA 218FF,296FF,296FF,293FF,256FF,254FF NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 404FF NA 405FF NA 405FF NA 428FF,427FF NA 486FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 502FF NA NA 479FF,483FF NA 502FF NA NA 471FF,465FF,459FF,453FF,446FF,440FF NA 479FF,500FF,501FF,515FF,489FF,489FF,331FF	0 days 0 days 0 days 0 days 0 days 259 days -259 days -2 days -242 days -242 days -242 days -242 days -260 days 0 days -129.8 days -168 days 0 days 0 days 91 days 91 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<b>♦</b> 5/9	• 30/1       • 2/2	
KD11   KD11	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1C completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (550days after starting date)  KD1G completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1H completion of will and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1L completion of will and structural works of SAS Pumping Station in Portion B-7A (150days after access date of B-7A)  KD1L completion of will and structural works of SAS Pumping Station in Portion B-7A (150days after access date of B-7A)  KD1L completion of a will and structural works of SAS Pumping Station in Portion B-7A (150days after starting date)  KD2A completion of all williary facilities in Portion B-7 (800days after starting date)  KD2A completion of all williary facilities in Portion B-7 (800days after starting date)  KD2A completion of all williars and road works (1440days after starting date)  Planned Completion of all williars and road works (1440days after starting date)  Section 1 of the Works (1,460 after starting date)  Section 2 of the Works (1,500 after starting date)	1686 days Fri 14.8/20 1170 days Fri 14.8/20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Thu 4/8/22 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 28/10/23 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Wed 23/8/23 0 days Fri 6/5/22 0 days Wed 23/8/23 0 days Fri 6/5/22 0 days Thu 3/9/20	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/6/23 Fri 6/5/22 Tue 26/3/24	1685 days 1123 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Wed 17/8/22 Sat 17/8/24 Sat 17/8/24	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Thu 2/2/23 Tu 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Fri 25/4/25 Wed 17/8/22 Sat 17/8/24	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA Wed 30:920 216FF NA 218FF,296FF,296FF,293FF,256FF,254FF NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 404FF NA 405FF NA 405FF NA 405FF NA 47FF,476FF,470FF,469FF,464FF,463F NA 47FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 479FF,485FF NA 479FF,485FF,453FF,446FF,440F NA 479FF,500FF,501FF,499FF,498FF,331F NA 487FF,500FF,501FF,505FF,506FF,373FF,346F	0 days 0 days 0 days 0 days 0 days 259 days -259 days -2 days 0 days -30 days -242 days -242 days -260 days 0 days 0 days -129.8 days -168 days 0 days 0 days 9 days -1 days	8% 0% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>	• 30/1       • 2/2	28/10
No.   No.	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1A completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (300days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (900days after starting date)  KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (900days after starting date)  KD1B completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1E completion of civil and structural works of MFB in Portion B-6 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1H completion of all and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1H completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD1J completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of auxiliary supply main alternation to existing air blower house No.2 in Portion B-8 (420days after starting date)  Planned Completion Date (cal. Day)  Planned Completion Date (cal. Day)  Section 1 of the Works (1.460 after starting date)  Defects Liability Period	1686 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 31/12/22 0 days Mon 9/8/21 0 days Mon 9/8/21 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Tue 26/3/24 0 days Tue 26/3/24 0 days Tue 26/3/24	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 31/12/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25	1685 days 1123 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 26/4/22 Thu 26/4/22 Thu 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25 Sat 17/8/24 Fri 25/4/25	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Wed 4/8/21 Sat 28/10/25 Fri 24/1/25 Fri 24/1/25 Sat 17/8/24 Fri 25/4/25	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA NA Wed 30:9:20 216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 347FF,368FF NA 404FF NA 404FF NA 405FF NA 428FF,477FF NA 486FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 502FF NA NA 479FF,485FF,459FF,453FF,446FF,440F NA 479FF,500FF,500FF,500FF,31F NA 487FF,504FF,505FF,506FF,317F,346F NA 479FF,504FF,505FF,506FF,317F,346F NA 507FF,165FF	0 days 0 days 0 days 0 days 0 days 259 days 2 days 0 days 30 days -30 days -30 days -242 days -242 days -260 days 0 days -129 days -129 days -168 days 0 days 0 days 91 days 982 days -251 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>	• 30/1       • 2/2	
KD11 KD11 KD11 KD11 KD11 KD11 KD11 KD11	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1A completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  RD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  RD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  RD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  RD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  RD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  RD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  RD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  RD1C completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  RD1C completion of evil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  RD1C completion of auxiliary facilities in Portion B-7 (800days after starting date)  RD2A completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (426days after starting date)  RD2A completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (426days after starting date)  RD2A completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (426days after starting date)  RD2A completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (426days after starting date)  RD2A completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (426days after starting date)  Planned Completion Date (cal. Day)  Section 1 of the Works (1	1686 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 31/12/22 0 days Mon 9/8/21 0 days Sat 325/6/22 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Tue 26/3/24 0 days Tue 26/3/24 0 days Tue 26/3/24 0 days Tue 26/3/24 0 days Tue 26/3/25 0 days Tue 26/3/24 0 days Thu 27/3/25	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/6/23 Fri 6/5/22 Tue 26/3/24	1685 days 1123 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 26/4/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25 Sat 17/8/24 Fri 25/4/25 Fri 25/4/25	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Wed 4/8/21 Sat 28/10/23 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA NA Wed 30/9/20 216FF  NA 218FF,296FF,286FF,293FF,256FF,254F  NA 329FF,328FF,320FF,324FF  NA 343FF,342FF  NA 347FF,368FF  NA 404FF  NA 404FF  NA 405FF  NA 428FF,427FF  NA 486FF  NA 477FF,476FF,470FF,469FF,464FF,463F  NA 477FF,476FF,470FF,469FF,464FF,463F  NA 477FF,476FF,470FF,469FF,464FF,463F  NA 477FF,483FF  NA 502FF  NA NA 471FF,465FF,459FF,453FF,446FF,440F  NA 497FF,500FF,501FF,499FF,331F  NA 497FF,504FF,505FF,506FF,373FF,346F  NA 507FF,165FF  NA 507FF	0 days 0 days 0 days 0 days 0 days 259 days 2 days 0 days 30 days 30 days -242 days -242 days -260 days 0 days 0 days -129 days -129 days -168 days 0 days 0 days 91 days 982 days -251 days 0 days 0 days	8% 0% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>	• 30/1       • 2/2	1
0	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1B completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1E completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1H completion of evil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1H completion of aviliant pipes to UV system and connection to its downstream in Portion B-9 (485days after starting date)  KD2A completion of avilianty facilities in Portion B-7 (800days after starting date)  Planned Completion of avil utilities and road works (1440days after starting date)  Planned Completion of avil calc starting date)  Section 2 of the Works (1,460 after starting date)  Section 2 of the Works (1,590 after starting date)  Defects Liability Period  Landscape Establishment Works  Effects from inclement Weather and Other Time Affected Events	1686 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Mon 9/8/21 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Thu 3/9/20 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Thu 23/8/23 0 days Thu 23/8/23 0 days Thu 27/3/25 0 days Thu 27/3/25 0 days Thu 27/3/25 0 days Thu 27/3/25	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Sat 30/1/21 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/2 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25	1685 days 1123 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 25/4/25 Fri 25/4/25 Mon 14/9/20	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tu 26/4/22 Sat 30/1/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Fri 25/4/25 Wed 17/8/24 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Wed 19/6/24	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA Wed 30:920 216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 404FF NA 405FF NA 405FF NA 428FF,472FF NA 486FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 479FF,483FF NA 479FF,500FF,501FF,499FF,498FF,331F NA 477FF,504FF,505FF,506FF,373FF,346F NA 477FF,504FF,505FF,506FF,373FF,346F NA 507FF,165FF	0 days 0 days 0 days 0 days 0 days 259 days 2 days 2 days 30 days -30 days -242 days -260 days 0 days -129.8 days -168 days 0 days 91 days -189.2 days -199.2 days -199.3 days 0 days 0 days 0 days 0 days 0 days -10 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>		1
KD1.0 KD1.0	Planned Completion  Planned Completion - Key Dates (cal. day)  KD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1A completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1H completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD1J completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD1J completion of awxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of affluent pipes to UV system and connection to its downstream in Portion B-8 (495days after starting date)  KD2B completion of all utilities and road works (1440days after starting date)  Planned Completion Date (cal. Day)  Planned Completion Date (cal. Day)  Section 1 of the Works (1,460 after starting date)  Planned Completion Date (cal. Day)  Section 3 of the Works (1,590 after starting date)  Defects Liability Period  Landscape Establishment Works  Effects from Inclement Weather and Other Time Affected Events  Effects to KD1A	1886 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Mon 9/8/21 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Thu 27/3/25 0 days Thu 27/3/25 0 days Thu 27/3/25 0 days NA	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 31/12/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25	1685 days 1123 days 0 days 10 days 0 days 0 days 1106 days 1116 days 1116 days 1116 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23  Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25 Wed 17/8/22 Sat 17/8/24 Fri 25/4/25 Fri 25/4/25 Mon 14/9/20 Mon 14/9/20 Mon 14/9/20	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Fri 25/4/25 Fri 28/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Wed 19/6/24 Wed 23/12/20	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA Wed 30:920:216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 367FF,368FF NA 404FF NA 405FF NA 428FF,427FF NA 486FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 479FF,483FF NA 479FF,483FF NA 479FF,500FF,505FF,506FF,373FF,346F NA 477FF,504FF,505FF,506FF,373FF,346F NA 477FF,504FF,505FF,506FF,373FF,346F NA 477FF,504FF,505FF,506FF,373FF,346F NA 507FF,165FF NA 507FF NA 507FF	0 days 0 days 0 days 0 days 0 days 0 days 259 days 2 days 2 days 30 days -242 days -242 days 242 days -242 days 0 days 0 days 129 days -168 days 0 days 9 days -1 days	8% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>		1
No.   No.	Planned Completion Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  RD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1C completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1C completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (600days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (600days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (600days after starting date)  KD1H completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD1A completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of auxiliary facilities in Portion B-7 (800days after starting date)  Planned Completion of auxiliary facilities in Portion B-7 (800days after starting date)  Planned Completion of auxiliary facilities in Portion B-7 (800days after starting date)  Planned Completion of auxiliary facilities in Portion B-7 (800days after starting date)  Planned Completion Date (cal. Day)  Planned Completion Date (cal. Day)  Planned Completion Date (cal. Day)  Planned Completion Date (cal. Day)  Defects Liability Period  Landscape Establishment Works  Effects from Inclement	1886 days Fri 14.8:20 1170 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8:20 0 days Fri 14/8:20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Sat 25/6/22 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days True 26/3/24 0 days True 27/3/25 0 days Thu 27/3/25 0 days NA 0 days NA	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Sat 30/1/21 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/2 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25 Thu 27/3/25	1685 days 1123 days 0 days 10 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25 Wed 17/8/22 Fri 25/4/25 Mon 14/9/20 Mon 14/9/20 Fri 18/9/20 Fri 18/9/20 Fri 18/9/20	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Wed 4/8/21 Sat 28/10/23 Fri 25/4/25 Fri 24/1/25 Wed 17/8/22 Sat 17/8/24 Fri 25/4/25	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA Wed 30:920:216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,329FF,324FF NA 343FF,342FF NA 404FF NA 404FF NA 405FF NA 428FF,427FF NA 428FF,427FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 479FF,483FF NA 499FF NA 499FF NA 479FF,505FF,595FF,453FF,446FF,440F NA 497FF,500FF,505FF,505FF,373FF,346F NA 407FF,504FF,505FF,505FF,373FF,346F NA 507FF,165FF NA 507FF NA 507FF NA 507FF NA 507FF NA 507FF NA 507FF NA 507FF	0 days 0 days 0 days 0 days 0 days 0 days -259 days -259 days -2 days -30 days -242 days -242 days -242 days -242 days -250 days 0 days -129.8 days -129.8 days -159.8 days	8% 0% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>		1
No.   No.	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  (RD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1C completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1H completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of auxiliary facilities in Portion B-7 (800days after starting date)  Planned Completion of all utilities and road works (1440days after starting date)  Planned Completion Date (cal. Day)  Section 3 of the Works (1,490 after starting date)  Pefects Liability Period  Landscape Establishment Works  Effects from Inclement Weather and Other Time Affected Events  Effects to KD1A  Inclement Weather to KD1A (cal. Day)	1886 days Fri 14.8:20 1170 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Sat 25/6/22 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Thu 3/9/20 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Thu 27/3/25 0 days Thu 27/3/25 0 days NA 0 days NA	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 5/5/22 Tue 26/3/24 Thu 27/3/25 NA NA NA	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 1 days 0 days 1 d	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25 Wed 17/8/22 Fri 25/4/25 Mon 14/9/20 Mon 14/9/20 Fri 18/9/20 Fri 18/9/20 Fri 18/9/20	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Wed 4/8/21 Sat 28/10/23 Fri 25/4/25 Fri 24/1/25 Wed 17/8/22 Sat 17/8/24 Fri 25/4/25 Fri 25/4/25 Wed 19/6/24 Wed 23/12/20 Fri 11/12/20 Wed 23/12/20	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA Wed 30:920:216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,329FF,324FF NA 343FF,342FF NA 404FF NA 404FF NA 405FF NA 428FF,427FF NA 428FF,427FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 479FF,483FF NA 502FF NA NA 477FF,504FF,459FF,453FF,446FF,341F NA 487FF,504FF,504FF,505FF,506FF,373FF,346F NA 507FF,165FF NA 507FF	0 days 0 days 0 days 0 days 0 days 259 days 2 days 0 days -242 days -242 days -242 days -242 days -242 days -259 days 0 days 0 days 0 days -129,8 days -129,8 days -159,8 days -159,8 days 0 days 0 days 0 days -15,1 days 0 days -15,2	8% 0% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>		1
0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (980days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1C completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1H completion of attenation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD1A completion of autimative facilities in Portion B-7 (800days after starting date)  KD2A completion of autimative facilities in Portion B-7 (800days after starting date)  KD2B completion of all utilities and road works (1440days after starting date)  Planned Completion Date (cal. Day)  Section 1 of the Works (1,460 after starting date)  Planned Completion Date (cal. Day)  Landscape Establishment Works  Effects to KD1A  Inclement Weather to KD1A (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	1886 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Sat 25/6/22 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Sat 28/10/23 1056 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Thu 27/3/25 0 days Thu 27/3/25 0 days NA 0 days NA 0 days NA	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 NA NA NA NA	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 1 days 0 days 1 d	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25 Wed 17/8/22 Sat 17/8/24 Fri 25/4/25 Fri 18/9/20 Mon 14/9/20 Fri 18/9/20 Wed 4/11/20	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Wed 4/8/21 Sat 28/10/23 Fri 25/4/25 Fri 24/1/25 Wed 17/8/24 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Wed 19/6/24 Wed 23/12/20 Wed 23/12/20 Wed 23/12/20 Wed 23/12/20 Wed 23/12/20	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA Wed 30:920:216FF NA 218FF,296FF,296FF,293FF,256FF,254FF NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 404FF NA 404FF NA 405FF NA 405FF NA 405FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 479FF,483FF NA 502FF NA NA 477FF,500FF,501FF,499FF,331F NA 487FF,504FF,505FF,506FF,373FF,346F NA 507FF NA NA 507FF NA NA NA NA NA NA NA NA NA NA NA NA NA	0 days 0 days 0 days 0 days 0 days 259 days 2 days 2 days 30 days -242 days -242 days -242 days -242 days 0 days 0 days 129 days 1198 days 1198 days 129 days 129 days 129 days 129 days 129 days 129 days 129 days 129 days 1282 days 1282 days 1282 days 1282 days	8% 0% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>		1
No.   No.	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portio B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1D completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1E completion of civil and structural works of MFB in Portion B-6 (950days after starting date)  KD1H completion of civil and structural works of MFB in Portion B-6 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (950days after starting date)  KD1H completion of awailiary facilities in Portion B-7 (800days after starting date)  KD2A completion of awailiary facilities in Portion B-7 (800days after starting date)  KD2A completion of awailiary facilities in Portion B-7 (800days after starting date)  KD2A completion of awailiary facilities in Portion B-7 (800days after starting date)  KD2A completion of awailiary facilities in Portion B-7 (800days after starting date)  Planned Completion Date (cal. Day)  Planned Completion Date (cal. Day)  Defects Liability Period  Landscape Establishment Works  Leffects from Inclement Weather and Other Time Affected Events  Effects from Inclement Weather to KD1A (cal. Day)  Delay and Disruption of Works for the month of November 2020  Other Events to KD1A (not all)	1886 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 28/10/23 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Thu 27/3/25 0 days Thu 27/3/25 0 days NA 0 days NA 0 days NA	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 NA NA NA NA NA NA NA	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 10 days 0 days 106 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23  Mon 5/9/22 Thu 2/2/23  Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25 Wed 17/8/22 Sat 17/8/24 Fri 25/4/25 Fri 25/4/25 Fri 18/9/20 Fri 18/9/20 Wed 4/11/20 Mon 14/9/20 Wed 4/11/20 Mon 14/9/20 Wed 4/11/20 Mon 14/9/20	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Thu 2/2/23 Tue 28/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Fri 25/4/25 Fri 24/1/25 Wed 17/8/24 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Wed 23/12/20 Wed 23/12/20 Wed 23/12/20 Wed 23/12/20 Wed 23/12/20 Wed 4/11/20 Thu 17/9/20	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA Wed 30:9:20 216FF NA 218FF,296FF,286FF,293FF,256FF,254F NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 404FF NA 405FF NA 405FF NA 426FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,467F NA 477FF,476FF,470FF	0 days 0 days 0 days 0 days 0 days 259 days -259 days -2 days -242 days -242 days -242 days -242 days -248 days -251 days -129 days -129 days -129 days -129 days -129 days -129 days -129 days -129 days -129 days -129 days -129 days -128 days	8% 0% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>		1
No.   No.	Planned Completion  Planned Completion - Key Dates (cal. day)  RD1A completion of AR3 in Portion B-1 (300days after starting date)  KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)  KD1B completion of civil and structural works of Inlet Works No.1 in Portion B-2 (980days after starting date)  KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)  KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)  KD1C completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)  KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD1H completion of attenation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD1A completion of autimative facilities in Portion B-7 (800days after starting date)  KD2A completion of autimative facilities in Portion B-7 (800days after starting date)  KD2B completion of all utilities and road works (1440days after starting date)  Planned Completion Date (cal. Day)  Section 1 of the Works (1,460 after starting date)  Planned Completion Date (cal. Day)  Landscape Establishment Works  Effects to KD1A  Inclement Weather to KD1A (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	1886 days Fri 14.8:20 1170 days Fri 14.8:20 0 days Sat 12/9/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Fri 14/8/20 0 days Mon 20/2/23 0 days Sat 31/12/22 0 days Sat 25/6/22 0 days Sat 25/6/22 0 days Sat 30/1/21 0 days Sat 30/1/21 0 days Sat 27/3/21 0 days Sat 28/10/23 1056 days Fri 6/5/22 0 days Fri 6/5/22 0 days Fri 6/5/22 0 days Thu 27/3/25 0 days Thu 27/3/25 0 days NA 0 days NA 0 days NA	Thu 27/3/25 Sat 28/10/23 Sat 12/9/20 Fri 14/8/20 Thu 4/8/22 Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 NA NA NA NA	1685 days 1123 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 1 days 0 days 1 d	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 20/2/23 Mon 30/1/23 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Tue 28/12/21 Wed 4/8/21 Mon 28/6/21 Sat 28/10/23 Wed 17/8/22 Fri 24/1/25 Wed 17/8/22 Sat 17/8/24 Fri 25/4/25 Fri 18/9/20 Mon 14/9/20 Fri 18/9/20 Wed 4/11/20	Fri 25/4/25 Sat 28/10/23 Wed 30/9/20 Thu 29/7/21 Sat 6/8/22 Mon 30/1/23 Mon 30/1/23 Mon 5/9/22 Thu 2/2/23 Thu 2/2/23 Tue 26/4/22 Sat 30/1/21 Wed 4/8/21 Wed 4/8/21 Sat 28/10/23 Fri 25/4/25 Fri 24/1/25 Wed 17/8/24 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Fri 25/4/25 Wed 19/6/24 Wed 23/12/20 Wed 23/12/20 Wed 23/12/20 Wed 23/12/20 Wed 23/12/20	Mon 14/9/20 Wed 30/9/20 Wed 30/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA Wed 30:920:216FF NA 218FF,296FF,296FF,293FF,256FF,254FF NA 329FF,328FF,320FF,324FF NA 343FF,342FF NA 404FF NA 404FF NA 405FF NA 405FF NA 405FF NA 477FF,476FF,470FF,469FF,464FF,463F NA 477FF,476FF,470FF,469FF,464FF,463F NA 479FF,483FF NA 479FF,483FF NA 502FF NA NA 477FF,500FF,501FF,499FF,331F NA 487FF,504FF,505FF,506FF,373FF,346F NA 507FF NA NA 507FF NA NA NA NA NA NA NA NA NA NA NA NA NA	0 days 0 days 0 days 0 days 0 days 259 days 2 days 2 days 30 days -242 days -242 days -242 days -242 days 0 days 0 days 129 days 1198 days 1198 days 129 days 129 days 129 days 129 days 129 days 129 days 129 days 129 days 1282 days 1282 days 1282 days 1282 days	8% 0% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		30/1	<ul> <li>◆ 5/9</li> <li>◆ 26/4</li> <li>◆ 28/12</li> <li>◆ 17/8</li> </ul>		1

Data Date: 31/1/2021

Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing							Revised Works Program [Delay of the works due to some, but not all	me (Status Date: 31/1/2021) of, NCE/CE/EWN are shown in this prog	ramme]								
Civil Works for Sewage Treatm  ID Activity ID Key Date		E/ECE/Baseline Baseline Start	Baseline Finish	Duration	Start	Finish A	Actual Start Actual Finish Predecessors	Successors	Total Slack	Risk Allowance 9	% Complete Individual Critical Pati		2021	2022	2023	2024	2025
69 ET1B-1100	Inclement Weather to KD1B (cal. Day)	Duration 0 days NA	NA	76 days	Wed 18/11/20	Sat 20/2/21	Wed 18/11/20 NA		1237 days		14%	July January July	January July	January July	January   July	January   July	January
70 ET1B-1110	Delay and Disruption of Works before November 2020	0 days NA	NA	76 days	Wed 18/11/20	Sat 20/2/21	Wed 18/11/20 NA 73	71	1237 days		14%			i I	į	i	1
71 ET1B-1120 72 ET1B-1200	Delay and Disruption of Works for the month of November 2020  Other Events to KD1B (not all)	0 days NA  0 days NA	NA NA	0 days 4 days	Sat 20/2/21 Fri 13/11/20	Sat 20/2/21 Tue 17/11/20	NA NA 70 Fri 13/11/20 Tue 17/11/20		1237 days 0 days		0%		♦ 20/2	i i	i	i	
72 E11B-1200 73 ET1B-1210	Special working arrangement due to COVID-19 in January 2020	0 days NA	NA NA	4 days	Fri 13/11/20	Tue 17/11/20	Fri 13/11/20 Tue 17/11/20 22	70	0 days		100%				į	i	
74 ET1C-1000	Effects to KD1C	0 days NA	NA	80 days	Fri 5/8/22	Wed 9/11/22	NA NA		727 days		0%			_			
75 ET1C-1100	Inclement Weather to KD1C (cal. Day)	0 days NA	NA	76 days	Wed 10/8/22	Wed 9/11/22	NA NA		727 days		0%		1 1		. :	. I	i
76 ET1C-1110	Delay and Disruption of Works before November 2020	0 days NA	NA	76 days	Wed 10/8/22	Wed 9/11/22	NA NA 79	77	727 days		0%				. I		l l
77 ET1C-1120	Delay and Disruption of Works for the month of November 2020	0 days NA	NA	0 days	Wed 9/11/22	Wed 9/11/22	NA NA 76		727 days		0%			<b>♦</b> 9/	1		1
78 <b>ET1C-1200</b> 79 ET1C-1210	Other Events to KD1C (not all)  Special working arrangement due to COVID-19 in January 2020	0 days NA	NA	4 days	Fri 5/8/22 Fri 5/8/22	Tue 9/8/22 Tue 9/8/22	NA NA 23	76	727 days 727 days		0%	_		1	1	!	1
80 ET1E-1000	Effects to KD1E	0 days NA	NA NA	8 days	Tue 3/1/23	Wed 11/1/23	NA NA	70	676 days		0%		1 1	1		i	
81 ET1E-1100	Inclement Weather to KD1E (cal. Day)	0 days NA	NA	8 days	Tue 3/1/23	Wed 11/1/23	NA NA		676 days		0%		i	į	A	i	
82 ET1E-1110	Delay and Disruption of Works before November 2020	0 days NA	NA	8 days	Tue 3/1/23	Wed 11/1/23	NA NA 25	83	676 days		0%			į	, i		
83 ET1E-1120	Delay and Disruption of Works for the month of November 2020	0 days NA	NA	0 days	Wed 11/1/23	Wed 11/1/23	NA NA 82		676 days		0%				<b>▶</b> 11/1		
84 ET1F-1000 85 ET1F-1100	Effects to KD1F	0 days NA 0 days NA	NA NA	71 days 71 days	Fri 7/1/22 Fri 7/1/22	Sat 2/4/22 Sat 2/4/22	NA NA		905 days 905 days		0%		1 1		. :	, I	i i
86 ET1F-1110	Inclement Weather to KD1F (cal. Day)  Delay and Disruption of Works before November 2020	0 days NA	NA NA	71 days	Fri 7/1/22	Sat 2/4/22	NA NA 26	87	905 days		0%			_			I I
87 ET1F-1120	Delay and Disruption of Works for the month of November 2020	0 days NA	NA	0 days	Sat 2/4/22	Sat 2/4/22	NA NA 86		905 days		0%			♦ 2/4	I I	. !	1
88 ET1G-1000	Effects to KD1G	0 days NA	NA	71 days	Mon 6/6/22	Sat 27/8/22	NA NA		787 days		0%		1 I 1 I		1	ı	1
89 ET1G-1100	Inclement Weather to KD1G (cal. Day)	0 days NA	NA	71 days	Mon 6/6/22	Sat 27/8/22	NA NA		787 days		0%		i i		i	i	
90 ET1G-1110	Delay and Disruption of Works before November 2020	0 days NA	NA NA	71 days	Mon 6/6/22	Sat 27/8/22	NA NA 27	91	787 days		0%		1 1		i	i	; I
91 ET1G-1120 92 ET1H-1000	Delay and Disruption of Works for the month of November 2020  Effects to KD1H	0 days NA	NA NA	0 days	Sat 27/8/22 Tue 10/8/21	Sat 27/8/22 Wed 3/11/21	NA NA 90		787 days 1028 days		0%			♦ 27/8			<u> </u>
93 ET1H-1100	Inclement Weather to KD1H (cal. Day)	0 days NA	NA	71 days	Tue 10/8/21	Wed 3/11/21	NA NA		1028 days		0%						į L
94 ET1H-1110	Delay and Disruption of Works before November 2020	0 days NA	NA	71 days	Tue 10/8/21	Wed 3/11/21	NA NA 28	95	1028 days		0%			I I			1
95 ET1H-1120	Delay and Disruption of Works for the month of November 2020	0 days NA	NA	0 days	Wed 3/11/21	Wed 3/11/21	NA NA 94		1028 days		0%		-	v11	i I	. !	1
96 ET2A-1000	Effects to KD2A	0 days NA	NA	79 days	Mon 29/3/21	Tue 6/7/21	NA NA		1128 days		0%			I I	1	ı	1
97 ET2A-1100	Inclement Weather to KD2A (cal. Day)	0 days NA	NA NA	75 days	Tue 6/4/21 Tue 6/4/21	Tue 6/7/21 Tue 6/7/21	NA NA 101	20	1128 days		0%			İ	į	i	
98 ET2A-1110 99 ET2A-1120	Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days NA 0 days NA	NA NA	75 days 0 days	Tue 6/7/21	Tue 6/7/21	NA NA 98	99	1128 days		0%		♦ 6/7	į	. i		!
100 ET2A-1200	Other Events to KD2A (not all)	0 days NA	NA NA	4 days	Mon 29/3/21	Thu 1/4/21	NA NA		1128 days		0%		1				
101 ET2A-1210	Special working arrangement due to COVID-19 in January 2020	0 days NA	NA	4 days	Mon 29/3/21	Thu 1/4/21	NA NA 31	98	1128 days		0%		1 11		. :	, I	i i
102 ET2A-1000	Effects to KD2B	0 days NA	NA	72 days	Tue 12/1/21	Mon 12/4/21	NA NA		1197 days		0%			1			I I
103 ET2A-1100	Inclement Weather to KD2B (cal. Day)	0 days NA	NA	72 days	Tue 12/1/21	Mon 12/4/21	NA NA		1197 days		0%			I I	I I		i I
104 ET2A-1110 105 ET2A-1120	Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days NA 0 days NA	NA NA	72 days 0 days	Tue 12/1/21 Mon 12/4/21	Mon 12/4/21 Mon 12/4/21	NA NA 32 NA NA 104	105	1197 days		0%		♦ 12/4	1	1	I	1
106 ET3A-1000	Effects to KD3A	0 days NA	NA NA	80 days	Mon 30/10/23	Fri 2/2/24	NA NA		361 days		0%			I I	_	-	1
107 ET3A-1100	Inclement Weather to KD3A (cal. Day)	0 days NA	NA	76 days	Fri 3/11/23	Fri 2/2/24	NA NA		361 days		0%		i	i	-	<u>,                                    </u>	
108 ET3A-1110	Delay and Disruption of Works before November 2020	0 days NA	NA	76 days	Fri 3/11/23	Fri 2/2/24	NA NA 111	109	361 days		0%					_	
109 ET3A-1120	Delay and Disruption of Works for the month of November 2020	0 days NA	NA	0 days	Fri 2/2/24	Fri 2/2/24	NA NA 108		361 days		0%					<b>♦</b> 2/2	i
110 ET3A-1200	Other Events to KD3A (not all)	0 days NA	NA	4 days	Mon 30/10/23	Thu 2/11/23	NA NA	100	361 days		0%		1 1	1		, I	i I
111 ET3A-1210 112 ETS1-1000	Special working arrangement due to COVID-19 in January 2020  Effects to Section 1 of the Works	0 days NA	NA NA	4 days	Mon 30/10/23 Sat 18/11/23	Thu 2/11/23 Sat 17/2/24	NA NA NA	108	361 days 351 days		0% 0%			I I	'	_	l l
113 ETS1-1100	Inclement Weather to Section 1 of the Works (cal. Day)	0 days NA	NA	69 days	Thu 23/11/23	Sat 17/2/24	NA NA		351 days		0%			I I	<u> </u>	l	1
114 ETS1-1110	Delay and Disruption of Works before November 2020	0 days NA	NA	69 days	Thu 23/11/23	Sat 17/2/24	NA NA 117	115	351 days		0%			1	. 🔫	<u>-</u> !	1
115 ETS1-1120	Delay and Disruption of Works for the month of November 2020	0 days NA	NA	0 days	Sat 17/2/24	Sat 17/2/24	NA NA 114		351 days		0%		1 1	1	1	♦ 17/2	
116 ETS1-1200	Other Events to Section 1 of the Works (not all)	0 days NA	NA	4 days	Sat 18/11/23	Wed 22/11/23	NA NA		351 days		0%		1 1		• 1	i	
117 ETS1-1210 118 ETS2-1000	Special working arrangement due to COVID-19 in January 2020  Effects to Section 2 of the Works	0 days NA	NA NA	4 days	Sat 18/11/23 Sat 7/5/22	Wed 22/11/23 Sat 23/7/22	NA NA NA	114	351 days 817 days		0%				. 1		
119 ETS2-1100	Inclement Weather to Section 2 of the Works (cal. Day)	0 days NA	NA NA	60 days	Fri 13/5/22	Sat 23/7/22	NA NA		817 days		0%		i i				
120 ETS2-1110	Delay and Disruption of Works before November 2020	0 days NA	NA	60 days	Fri 13/5/22	Sat 23/7/22	NA NA 123	121	817 days		0%		1 1		. :	, I	i i
121 ETS2-1120	Delay and Disruption of Works for the month of November 2020	0 days NA	NA	0 days	Sat 23/7/22	Sat 23/7/22	NA NA 120		817 days		0%			♦ 23/7			I I
122 ETS2-1200	Other Events to Section 2 of the Works (not all)	0 days NA	NA	4 days	Sat 7/5/22	Thu 12/5/22	NA NA		817 days		0%			1	I I	. !	1
123 ETS2-1210	Special working arrangement due to COVID-19 in January 2020	0 days NA	NA	4 days	Sat 7/5/22	Thu 12/5/22	NA NA 36	120	817 days		0%		1 I 1 I	1	1		1
124 ETS3-1000 125 ETS3-1100	Effects to Section 3 of the Works  Inclement Weather to Section 3 of the Works (cal. Day)	0 days NA 0 days NA	NA NA	59 days 55 days	Wed 27/3/24 Sat 13/4/24	Wed 19/6/24 Wed 19/6/24	NA NA		260 days 260 days		0%		1 1	I I	1		1
126 ETS3-1110	Delay and Disruption of Works before November 2020	0 days NA	NA	55 days	Sat 13/4/24	Wed 19/6/24	NA NA 129	127	260 days		0%	-  i		I I	į		; L
127 ETS3-1120	Delay and Disruption of Works for the month of November 2020	0 days NA	NA	0 days	Wed 19/6/24	Wed 19/6/24	NA NA 126		260 days		0%		i i	į	. i	<b>♦</b> 19/6	!
128 ETS3-1200	Other Events to Section 3 of the Works (not all)	0 days NA	NA	4 days	Wed 27/3/24	Wed 3/4/24	NA NA		260 days		0%		1 1				
129 ETS3-1210	Special working arrangement due to COVID-19 in January 2020	0 days NA	NA	4 days	Wed 27/3/24	Wed 3/4/24	NA NA 37	126	260 days		0%		1 1		. :		i i
130 SUB-1000 131 SUBS-1000	Submissions (cal.day) Subletting Package	1564 days Mon 18/11/19 96 days Mon 18/11/19	Wed 28/2/24 Fri 21/2/20	1956 days 525 days	Mon 18/11/19 Mon 18/11/19	Wed 26/3/25 Sun 25/4/21			30 days 628 days		49% 74%			i	i		- $ $
132 SUBS-1010	Prepare & submit subletting procedure	12 days Mon 18/11/19	Fri 29/11/19	12 days	Mon 18/11/19	Fri 29/11/19		133	0 days		100%			I I	ı I	. !	1
133 SUBS-1020	PM review and accept subletting procedure	15 days Sat 30/11/19	Wed 11/12/19	12 days	Sat 30/11/19	Wed 11/12/19	Sat 30/11/19 Wed 11/12/19 132	154,134,137,136,135	0 days		100%	•		I I	I I	!	1
134 SUBS-1030	Subletting for demolition works	24 days Thu 12/12/19	Sat 4/1/20	93 days	Tue 17/12/19	Wed 18/3/20		336,431,297,376,486,355			100%		1 1	1	1	ı	
135 SUBS-1040 136 SUBS-1050	Subletting for UU diversion for Inlet Works No.1  Subletting for Inspection pit excavation	24 days Thu 12/12/19 0 days NA	Sat 4/1/20	78 days 56 days	Fri 10/1/20 Thu 19/12/19	Fri 27/3/20 Wed 12/2/20	Fri 10/1/20 Fri 27/3/20 133 Thu 19/12/19 Wed 12/2/20 133,166	218 220,138	0 days		100%		i	į	į	i	
137 SUBS-1060	Subletting for Preliminary Works (topographic surveying)	14 days Thu 12/12/19	Wed 25/12/19	54 days	Fri 20/12/19	Tue 11/2/20		171,204,141,142,143,139			100%			į	į.	i i	
138 SUBS-1070	Subletting for AR3 access road	24 days Thu 12/12/19	Sat 4/1/20	0 days	Fri 13/12/19	Tue 11/2/20		139,216	0 days		100%			-			į L
139 SUBS-1080	Subletting for pre-drilling works	24 days Thu 12/12/19	Sat 4/1/20	38 days	Thu 6/2/20	Fri 20/3/20	Thu 6/2/20 Fri 20/3/20 137,138	422,337,389,140	0 days		100%		1 1	I I		1	
140 SUBS-1090 141 SUBS-1100	Subletting for Contractor designer for temporary works and ICE  Subletting for independent BIM consultant	24 days Thu 12/12/19 24 days Thu 12/12/19	Sat 4/1/20 4/1/120	71 days 0 days	Mon 16/12/19 Wed 11/12/19	Mon 24/2/20 Thu 23/1/20		341,366,426,433,442,449 199	0,450 days 0 days		100%		1 1	I I			1
141 SUBS-1100	Subletting for independent BIM consultant  Subletting for independent BIM services	0 days NA	NA NA	15 days	Tue 14/1/20	Wed 26/2/20		199	0 days		100%	- T.	1 1	1	I I	. I	<u> </u>
143 SUBS-1120	Subletting for Design, Supply & Install of Temporary Activated Carbon Deodorization Units (E&M Works)	0 days NA	NA	0 days	Fri 13/12/19	Tue 11/2/20		144,145	0 days		100%	<b>—</b>	i i	I I	i	i	<u> </u>
144 SUBS-1130	Units (E&M Works)  Subletting for pre-bored H pile works	36 days Thu 12/12/19	Thu 16/1/20	45 days	Sun 5/7/20	Tue 18/8/20	Sun 5/7/20 Tue 18/8/20 143	310,338,363,390,423	0 days		100%		i i	I I	į	i	; L
145 SUBS-1140	Subletting for Sheetpile installation works	0 days NA	NA	45 days	Tue 1/9/20	Thu 15/10/20	Tue 1/9/20 Thu 15/10/20 143	311,339,364,425,146,147			100%	_	1 1	i I	į	i	; I
146 SUBS-1150	Subletting for ELS works for Inlet Works No.1	48 days Sun 5/1/20	Fri 21/2/20	48 days	Fri 16/10/20	Wed 2/12/20	Fri 16/10/20 NA 145	313	300 days		96%			i			1
File: DC201807_Revised Wor	ks Progr Critical Split	♦ Summary	-	Critical													
Date: Fri 5/3/21																	

Contract No. DC/2018/07
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Revised Works Programme (Status Date: 31/1/2021)
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

	Plant - Main Works Stage 1							[Delay of the works due to some, but not all of, NCI	/CE/EWN are shown in this program	nme]					
Works for Sewage Treatment Activity ID Key Tas		CE/Baseline Baseline Start	Baseline Finish	Duration	Start	Finish Ac	tual Start	Actual Finish Predecessors	Successors	Total Slack Risk Allowance	% Complete Individual Critical Path	2019 2020	2021	2022 2023	2024
Date SUBS-1160	Subletting for ELS works for Membrance Facilities Building and other buildings	Duration 48 days Sun 5/1/20	Fri 21/2/20	48 days	Fri 16/10/20	Wed 2/12/20	Fri 16/10/20	NA 145	341,366,426,148,149,150,1		96%	July January July	January July	2022 2023 January July January July	January July
SUBS-1170	Subletting for structural works for Inlet Works Building	48 days Thu 12/12/19	Tue 28/1/20	48 days	Thu 3/12/20	Tue 19/1/21	NA	NA 147		225 days	0%		1 1	1	I
UBS-1180	Subletting for structural works for Primary Sedimentation Tanks					Tue 19/1/21	INA NA	NA 147	342	647 days	0%	-			 
	The state of the s	48 days Thu 12/12/19	Tue 28/1/20	48 days	Thu 3/12/20		NA.					i	T i	i i	i
IBS-1190	Subletting for structural works for Bioreactors	48 days Thu 12/12/19	Tue 28/1/20	48 days	Thu 3/12/20	Tue 19/1/21	NA	NA 147	367	462 days	0%				1
JBS-1200	Subletting for structural works for Membrance Facilities Building	48 days Thu 12/12/19	Tue 28/1/20	48 days	Thu 3/12/20	Tue 19/1/21	NA	NA 147	400	177 days	0%				 
JBS-1210	Subletting for structural works for SAS pumping house and ancillary structures	48 days Thu 12/12/19	Tue 28/1/20	48 days	Thu 3/12/20	Tue 19/1/21	NA	NA 147	427,153	-30 days	0%		22	i i	I
SUBS-1220	Subletting for ABWF works	48 days Thu 12/12/19	Tue 28/1/20	48 days	Wed 20/1/21	Mon 8/3/21	NA	NA 152	330,344,372,429,440,446,4	5 628 days	0%	!	! <b></b>	1	I
SUBS-1230	Subletting for Process Pipeworks, Utilities and Roadworks	48 days Thu 12/12/19	Tue 28/1/20	150 days	Fri 22/5/20	Sun 18/10/20	Fri 22/5/20	Sun 18/10/20 133	479,489,497,498,499,500,5	0 0 days	100%				 
SUBS-1240	Subletting for Landscape Hardworks and Softworks	48 days Thu 12/12/19	Tue 28/1/20	48 days	Tue 9/3/21	Sun 25/4/21	NA	NA 153		628 days	0%		i i_	i i	l
									349				1 - 1	The state of the s	I
SUBS-1250	Subletting for Trial dewatering works and installation of additional stop logs at BR2 connon channel due to malfucntioned of existing penstock at FST no. 5 and 7 (EWN	0 days NA	NA	15 days	Tue 15/9/20	Tue 29/9/20	Tue 15/9/20	Tue 29/9/20	349	0 days	100%		1 1	1	I
	055)												1 1		l I
SUBS-1260	Subletting for Diversion of Power supply for existing Slaghter House pump station (CE	0 days NA	NA	14 days	Mon 21/9/20	Sun 4/10/20	Mon 21/9/20	Sun 4/10/20		0 days	100%	- i	i i	i i	I
0000-1200	034)	o days	IN.	14 days	WOII 21/3/20	3411 4/10/20	WOTI Z 1/3/ZU	341 4/10/20		o days	10078	1	1 1	The state of the s	I
SUBS-1270	Subletting for Decommission of exisiting power and signal systems in leachate Pump	0 days NA	NA	14 days	Mon 21/9/20	Sun 4/10/20	Mon 21/9/20	Sun 4/10/20	411	0 days	100%	- !	1 1		
0000-1270	station switch room (PMI 039)	o days	140	14 days	WOII 21/3/20	3411 4/ 10/20	WOT 2 1/3/20	Sul 4/10/20	711	o days	10078	_	1 1		l I
SUBS-1280	Subletting for Diversion of Existing DN250 Leachate Raising Main (PPMI 025)	0 days NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		0 days	100%	-	i i	i i	
SUBS-1290	Subletting for Construction of Cable trough for CLP 11kv Cable Diversion (PPMI 041)	0 days NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20		412,423	0 days	100%	- !	[ [	1	I
SUBS-1300			NA NA						413		100%	_	1 1		I I
	Subletting for Demolition of Existing Pillar box and its concrete plinth (CE 030)	,-	1	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20			0 days		_	i i	i i	' I
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	414	0 days	100%	1	1 1	The state of the s	I
	( ) 11/											_			
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	418	0 days	100%	_	1 1	i i	! 
SUBA-1000	Statutory Submission, Submission and Approval	1564 days Mon 18/11/19	Wed 28/2/24	1956 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA		30 days	43%			T	
SUBA-1010	Liaison with operator of SWHSTW and obtain their consent of associated method	0 days NA	NA	1584 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA 2	59FF	26 days	19%			-	
	statement of major activities												1 1		ı I
SUBA-1020	Prepare and submit Subcontractor Management Plan (SMP)	24 days Mon 18/11/19	Wed 11/12/19	24 days	Mon 18/11/19	Wed 11/12/19	Mon 18/11/19	Wed 11/12/19 2	134,137,136	0 days	100%	<b>=</b> i	1 1	i i	I
SUBA-1030	Prepare and submit Interface Management Plan	36 days Mon 18/11/19	Mon 23/12/19	36 days	Mon 18/11/19	Mon 23/12/19	Mon 18/11/19	Mon 23/12/19 2		0 days	100%	<b>=</b> !	1 1	1	l
SUBA-1040	Prepare and submit the TTA plans inside Treatment Plant for UU diversion and	24 days Mon 18/11/19	Wed 11/12/19	24 days	Mon 18/11/19	Wed 11/12/19	Mon 18/11/19	Wed 11/12/19 2	207	0 days	100%	<b>∃</b>	T I		ı I
	buildings construction											i i	i i	i '	I
SUBA-1050	Prepare and submit method statement for UU diversion for Inlet Works No.1	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	170	0 days	100%	<b>1</b>	1 1		I
SUBA-1060	PM review and accept the method statement	12 days Sat 30/11/19	Wed 11/12/19	0 days	Sat 30/11/19	Wed 11/12/19	Sat 30/11/19	Wed 11/12/19 169	219,220	0 days	100%	1	1 1		I I
SUBA-1070	Prepare and submit combine underground services drawing for PM's review the	24 days Thu 26/12/19		23 days	Thu 26/12/19	Sat 18/1/20	Thu 26/12/19			0 days	100%	<b>⊣</b> - <u>'</u>	1 1		ı I
	alignment			Lo days		Jul 10/1/20					.35.5		1 1	i i	I
SUBA-1080	Prepare and submit method statement for demolition existing structures	24 days Mon 18/11/19	Wed 11/12/19	66 days	Mon 18/11/19	Wed 22/1/20	Mon 18/11/19	Wed 22/1/20 2	376,336,431,297,486,355	0 days	100%	<b>⊣</b>	1 1	1	I
SUBA-1090	Prepare and submit method statement for structural works for buildings	24 days Mon 18/11/19	Wed 11/12/19	197 days	Mon 18/11/19	Mon 1/6/20	Mon 18/11/19			0 days	100%				 
									200 404 400 007 055	· .			i	i i	i I
SUBA-1100	Prepare and submit method statements to MTRC regarding the works within railing protection boundary	36 days Mon 18/11/19	Mon 23/12/19	92 days	Sat 1/2/20	Mon 25/5/20	Sat 1/2/20	Mon 25/5/20 2	336,431,486,297,355	0 days	100%	1	1 1	1 1	I
SUBA-1110	Propers and submit & approve Cafety Management Plan	24 days Mon 18/11/19	Wed 11/12/19	2 days	Mon 18/11/19	Wed 20/11/19	Mon 18/11/19	Wed 20/11/19 2		0 days	100%				
	Prepare and submit & approve Safety Management Plan			3 days						0 days		- ' i	1 1	i i	! 
SUBA-1120	Prepare and submit Excavation and lateral support (ELS) proposal	24 days Mon 10/2/20	Wed 4/3/20	128 days	Mon 10/2/20	Tue 16/6/20	Mon 10/2/20	Tue 16/6/20 2		0 days	100%		L L	The state of the s	I
SUBA-1130	Prepare and submit Dewatering proposal for basement construction	24 days Mon 10/2/20	Wed 4/3/20	165 days	Mon 10/2/20	Thu 23/7/20	Mon 10/2/20	Thu 23/7/20 2		0 days	100%		1 1	!	I
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 6/3/20 204		0 days	100%		1 1		l I
												i	i i	i i	i
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 6/3/20 204		0 days	100%		1 1	1	1
													1 1		l I
SUBA-1160	Prepare and submit design of structure elements of the temporary activated carbon deodourization unit	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%	i -	i i	i i	
												I	I I	<u>1                                    </u>	I
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	487	660 days	0%	1	1 1	-	l
SUBA-1180	-	44 days - 145 77 000	Thu 3/9/20	CO dave	Mon 6/7/20	Th 0/0/00	Mon 6/7/20	Thu 3/9/20	486	O desse	100%	_	1 1	,	 
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///20	Thu 3/9/20	WON 6/7/20	THU 3/9/20	400	0 days	100%		i i	i i	I
SUBE-1000	Environmental Aspect Submissions	45 days Mon 18/11/19	Wed 1/1/20	O1 down	Mon 18/11/19	Thu 6/2/20	Mon 18/11/19	Thu 6/2/20		0 days	100%		1 1	The state of the s	I
				81 days											
SUBE-1010	Prepare, submit & approve Site Management Plan for Trip Tricket System	45 days Mon 18/11/19		66 days	Mon 18/11/19	Wed 22/1/20	Mon 18/11/19	Wed 22/1/20 2		0 days	100%		i i	i i	I
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	The state of the s	I
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%				
SUBP-1000	Procurement	731 days Mon 18/11/19	Wed 17/11/21	648 days	Mon 18/11/19	Thu 26/8/21	Mon 18/11/19	NA		700 days	81%				
SUBP-1010	Prepare and submit the Procurement Procedure	12 days Mon 18/11/19	Fri 29/11/19	2 days	Mon 18/11/19	Tue 19/11/19	Mon 18/11/19	Tue 19/11/19 2	189	0 days	100%		i i	i i	I
SUBP-1020	PM Review & Accept Procurement Procedure	12 days Sat 30/11/19	Wed 11/12/19	21 days	Tue 19/11/19	Tue 10/12/19	Tue 19/11/19	Tue 10/12/19 188	190,191,192,193,194,195,19		100%		1 1	1	I
	·	· .													I I
SUBP-1030	Prepare, submit and approve the pipe works material	25 days Thu 12/12/19	Sun 5/1/20	34 days	Thu 6/2/20	Tue 10/3/20	Thu 6/2/20		218,479,498,499,501,500,4		100%		i i	i i '	I
SUBP-1040	Prepare, submit and approve the water proofing material	25 days Thu 12/12/19	Sun 5/1/20	25 days	Mon 2/8/21	Thu 26/8/21	NA	NA 189	323,327	195 days	0%		1 1	1	I
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	Sat 2/5/20 189	316,367,427,400	0 days	100%		1 1		I I
SUBP-1060	Prepare, submit and approve the rebar material	48 days Thu 12/12/19	Tue 28/1/20	49 days	Sat 23/5/20	Fri 10/7/20	Sat 23/5/20	Fri 10/7/20 189	316,367,427,400	0 days	100%	<b>–</b>	1 1		I
SUBP-1070	Prepare, submit and approve the metal works material	48 days Thu 12/12/19	Tue 28/1/20	48 days	Tue 1/9/20	Sun 18/10/20	Tue 1/9/20	Sun 18/10/20 189	316,367,427,400	0 days	100%	<b>—</b>	1 1	i i	I
SUBP-1080	Prepare, submit and approve the ABWF works material	48 days Sat 12/12/20	Tue 28/1/20	48 days	Mon 1/3/21	Sat 17/4/21	NA NA	NA 189	330,344,372,429,440,446,4		0%	- !			I
SUBP-1090			NA												l I
	Prepare, submit and approve the protective lining to concrete	,-	[ · · ·	48 days	Tue 1/9/20	Sun 18/10/20	Tue 1/9/20		316,367,427,400	0 days	100%		1 1	i i	I
SUBP-1100	Prepare, submit and approve the multi-part covers	0 days NA	NA	21 days	Tue 5/5/20	Mon 25/5/20	Tue 5/5/20			0 days	100%		1 1	1	I
SUBB-1000	BIM	1205 days Thu 6/2/20	Wed 28/2/24	1562 days	Mon 18/11/19	Fri 28/2/25	Mon 18/11/19	NA		48 days	16%				I
SUBB-1010	Prepare, submit and approve the proposal of details of Common data environment (CDE)	48 days Thu 6/2/20	Wed 1/4/20	37 days	Mon 18/11/19	Wed 1/4/20	Mon 18/11/19	Wed 1/4/20 141,142	200	0 days	100%	_	I i	i i	I
												-	1 1	1 1	I .
	Prepare and submit BIM submission	1484 days Thu 6/2/20	Wed 28/2/24	1451 days	Thu 2/4/20	Fri 28/2/25	Thu 2/4/20	NA 199		48 days	14%				l
C-1000 * Co	onstruction Works (Working day)	1957 days Mon 18/11/19	Thu 27/3/25	1986 days?	Mon 18/11/19	Fri 25/4/25	Mon 18/11/19	NA		0 days?	28%	<u> </u>		<del>-                                    </del>	I
CPW-1000	Preliminary Works	109 days Mon 18/11/19	Thu 5/3/20	162 days	Mon 18/11/19	Mon 27/4/20	Mon 18/11/19	Mon 27/4/20		0 days	100%		f = 1	The state of the s	I
CPW-1000	Initial Survey	24 days Mon 18/11/19	Sat 14/12/19	10 days	Mon 18/11/19	Thu 28/11/19	Mon 18/11/19	Thu 28/11/19 2	204	0 days	100%	1	1 1		I I
CPW-2000	Condition Survey	30 days Fri 27/12/19	Tue 4/2/20	89 days	Mon 18/11/19	Fri 6/3/20	Mon 18/11/19	Fri 6/3/20 137,203	205,178,179,206	0 days	100%			i i '	I
CPW-3000	Installation of Monitoring Markers	26 days Wed 5/2/20	Thu 5/3/20	78 days	Fri 29/11/19	Thu 5/3/20	Fri 29/11/19			0 days	100%		į į		I
													1 1		I I
CPW-4000	Tree Felling Works	0 days NA	NA	40 days	Sat 7/3/20	Mon 27/4/20	Sat 7/3/20			0 days	100%		1 1		I
CAR-0000 *	Access Road (AR3), B-1	193 days Mon 20/1/20	Sat 12/9/20	238 days	Thu 12/12/19	Wed 30/9/20	Thu 12/12/19	Wed 30/9/20 4,168		0 days	100%	-	1 1	i i	I
CAR-1000	Site setup and clearance wroks	05 28 days Mon 20/1/20	Mon 24/2/20	38 days	Mon 20/1/20	Fri 6/3/20	Mon 20/1/20	Fri 6/3/20	209	0 days	100%		1 1		 
AN-1000		0 days NA	NA	5 days	Mon 17/2/20	Thu 12/3/20	Mon 17/2/20	Thu 12/3/20 208	210	0 days	100%	1   1	1 1		ı I
	Awaiting for AECOM instruction for alignment confirmation for road works (PPMI 008)											i i	i i	i i '	I
	Awaiting for AECOM instruction for alignment confirmation for road works (PPMI 008)					M 05/5/00			211	0 days	100%	1 1	1 1	The state of the s	I
CAR-1001	Additional Works in Access Road AR3 to Settle Left-in Material by Contract 031	0 days NA	NA	4 days	Thu 21/5/20	Mon 25/5/20	Thu 21/5/20	Mon 25/5/20 209							
CAR-1001		0 days NA	NA	4 days	Thu 21/5/20	MON 25/5/20	Thu 21/5/20	Mon 25/5/20 209							l I
CAR-1001	Additional Works in Access Road AR3 to Settle Left-in Material by Contract 031	0 days NA 76 days Fri 6/3/20	NA Tue 9/6/20	4 days	Thu 21/5/20 Sat 7/3/20	Tue 9/6/20	Thu 21/5/20 Sat 7/3/20	Mon 25/5/20 209 Tue 9/6/20 210	212	0 days	100%	_			1 
CAR-1001  CAR-1002  CAR-2000	Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07 031							Tue 9/6/20 210	212 213	0 days 0 days	100% 100%	<b>—</b> .			1 
CAR-1001  CAR-1002  CAR-2000  CAR-2000a	Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07  Drainage and Utilities Works  Trimming of Existing Sheet Piles in Access Road AR3  051  Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated 053	76 days Fri 6/3/20	Tue 9/6/20	75 days	Sat 7/3/20	Tue 9/6/20	Sat 7/3/20	Tue 9/6/20 210 Wed 5/8/20 211	213	0 days					
CAR-1001  CAR-1002  CAR-2000  CAR-2000a	Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07  Drainage and Utilities Works  Trimming of Existing Sheet Piles in Access Road AR3  051	76 days Fri 6/3/20 0 days NA	Tue 9/6/20 NA	75 days 20 days	Sat 7/3/20 Tue 14/7/20	Tue 9/6/20 Wed 5/8/20	Sat 7/3/20 Tue 14/7/20	Tue 9/6/20 210 Wed 5/8/20 211	213		100%	<b>-</b> .			 
CAR-1001  CAR-1002  CAR-2000  CAR-2000a  CAR-2000b	Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07  Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 051 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated 053 Concreting Works in Portion B-1	76 days Fri 6/3/20 0 days NA	Tue 9/6/20 NA	75 days 20 days	Sat 7/3/20 Tue 14/7/20	Tue 9/6/20 Wed 5/8/20	Sat 7/3/20 Tue 14/7/20	Tue 9/6/20 210 Wed 5/8/20 211 Fri 4/9/20 212	213	0 days	100%				             
CAR-1001  CAR-1002  CAR-2000  CAR-2000a  CAR-2000b  CAR-2001	Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07  Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 051 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated 053 Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	76 days Fri 6/3/20 0 days NA 0 days NA 0 days NA	Tue 9/6/20 NA NA	75 days 20 days 7 days	Sat 7/3/20 Tue 14/7/20 Fri 28/8/20 Thu 5/3/20	Tue 9/6/20 Wed 5/8/20 Fri 4/9/20 Wed 30/9/20	Sat 7/3/20 Tue 14/7/20 Fri 28/8/20 Thu 5/3/20	Tue 9/6/20 210  Wed 5/8/20 211  Fri 4/9/20 212  Wed 30/9/20 213	213 214 216	0 days 0 days 0 days	100%	1.			
CAR-1000  CAR-1002  CAR-2000  CAR-2000a  CAR-2000b  CAR-2001  CAR-2001  CAR-2002  CAR-2000 KD1A	Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07  Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 051 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated 053 Concreting Works in Portion B-1	76 days Fri 6/3/20 0 days NA 0 days NA 0 days NA	Tue 9/6/20  NA  NA  NA	75 days 20 days 7 days	Sat 7/3/20 Tue 14/7/20 Fri 28/8/20	Tue 9/6/20 Wed 5/8/20 Fri 4/9/20	Sat 7/3/20 Tue 14/7/20 Fri 28/8/20	Tue 9/6/20 210  Wed 5/8/20 211  Fri 4/9/20 212  Wed 30/9/20 213  Wed 26/2/20	213 214 216 216	0 days	100% 100% 100%	1			

Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Revised Works Programme (Status Date: 31/1/2021 [Delay of the works due to some, but not all of, NCE/CE/EWN are shown

ivil Works for Sewage Treatr ID Activity ID Key Date Task Name NCE/ECE/Baseline Baseline Start Baseline Finish Duration Finish Actual Start Actual Finish Predecessors Successors Total Slack Risk Allowance % Complete Individual Critical Path 2020 2023 January July 854 days Mon 6/1/20 217 CIW-0000 Inlet Works No.1, B-2 Mon 21/11/22 888 days? Tue 26/11/19 Wed 23/11/22 Tue 26/11/19 715 days? 218 CIW-1000 180 days Mon 6/1/20 Fri 14/8/20 459 days? Tue 26/11/19 Wed 16/6/21 Tue 26/11/19 NA 190.135 43FF 36 days? Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipe Tank Drains and Pipelines near Primary Sludge Thinkeners) 219 CIW-1100 Utilities scanning to idenify existing UU arrangement Fri 13/12/19 Sat 18/1/20 170 220SS 222 Fri 13/12/19 220 CIW-1200 Trial pits to locate the collection points Mon 6/1/20 Tue 10/3/20 Mon 6/1/20 Tue 10/3/20 170,219SS,136 238,285FS+13 days,257 221 CIW-1300 Installation and Commissioning of Temporary Activated Carbon Deoc Unit for the Existing Inlet Works 98 days Wed 11/3/20 Sat 11/7/20 Construction of concrete plinth Wed 11/3/20 Wed 8/4/20 Wed 8/4/20 219 0 days 223 CIW-1320 Installation of Deodorizer 0 days 40 days Thu 9/4/20 Sat 30/5/20 Thu 9/4/20 Sat 30/5/20 222 100% 0 days 224 CIW-1330 Mon 1/6/20 Testing & commissioning 0 days 15 days Wed 17/6/20 Mon 1/6/20 Wed 17/6/20 223 225FS-1 day 0 days 225 CIW-1340 Demolishment of the existing carbon deodorization unit 0 days 20 days Wed 17/6/20 Sat 11/7/20 Wed 17/6/20 Sat 11/7/20 224FS-1 day 0 days 226 CIW-1400 Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) 146 days Thu 6/2/20 Mon 3/8/20 354 days? Tue 18/2/20 Wed 28/4/21 Tue 18/2/20 0 days 227 CIW-1405 Joint Initial Survey arrangement with MTRCL (NCE) 0 days 92 days Tue 18/2/20 Wed 10/6/20 Tue 18/2/20 Wed 10/6/20 228 0 days Remedial Works for uncharted sludge Pipe leakage 228 CIW-1410 030 0 days 1 day Sat 14/3/20 Sat 14/3/20 Sat 14/3/20 Sat 14/3/20 227 229 0 days 100% 229 CIW-1420 Diversion of uncharted DN250 sludge pipe 030 0 days 32 days Sat 14/3/20 Fri 24/4/20 Sat 14/3/20 Fri 24/4/20 228 236,230,231 230 CIW-1421 024 0 days Fri 24/4/20 Fri 24/4/20 229 Wed 15/4/20 231 CIW-1422 Additional Underground Utility Scanning for existing sludge pipe 32 0 days Sat 18/4/20 Sat 18/4/20 229 232 CIW-1423 310,233 HV Cable Diversion for Inlet Works 84 0 days 121 days Mon 8/3/21 Sat 10/10/20 Sat 10/10/20 0 days NA 232 Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 236 0 days Tue 9/3/21 Tue 9/3/21 1 day? -94 days 234 CIW-1424 Diversion of Existing Sludge Rising Main and Sewerage System 81 0 days Mon 28/9/20 309,310,268,279,280 102 days Mon 28/9/20 Sat 30/1/21 0 days 235 CIW-1425 Demolition of Deodorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pump Pit 037 0 days 1 day Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 0 days 236 CIW-1430 030 0 days Tue 19/5/20 Tue 19/5/20 229,230 Removal of concrete surround and uncharted sludge pipe 20 days Fri 24/4/20 Fri 24/4/20 0 days 237 CIW-1440 Remedial works for uncharted pipe and unforeseen water seepag 0 days 10 days Fri 8/5/20 Tue 19/5/20 Fri 8/5/20 Tue 19/5/20 236 238,239 0 days 100% 238 CIW-1450 Trench Excavation for 1800mm dia pipeline and manholes 146 days Thu 6/2/20 Mon 3/8/20 208 days Wed 20/5/20 Tue 26/1/21 Wed 20/5/20 NA 220,237 -61 days 84% 239 CIW-1450a Sheetpile installation (on hold due to identification of uncharted obstruction) 045 0 days 26 days Wed 20/5/20 Thu 18/6/20 Wed 20/5/20 Thu 18/6/20 237 0 days 100% 240 CIW-1450h Trench Excavation for 1800mm dia nineline and manholes 45 days Thu 6/2/20 Sat 28/3/20 22 days Thu 18/6/20 Wed 15/7/20 Thu 18/6/20 Wed 15/7/20 239 241 253 0 days 100% 241 CIW-1450c Identification of uncharted concrete surround and pipes near MHA01 0 days 29 days Thu 16/7/20 Tue 18/8/20 Thu 16/7/20 Tue 18/8/20 240 244 249 253 0 days 100% 242 CIW-1450d Removal of existing DSD drawpits near IRC & exposure of CLP calbes with installation of additional temporary support Thu 16/7/20 Fri 14/8/20 Thu 16/7/20 Fri 14/8/20 26 days Removal of uncharted concrete surround and pipes near MHA01 and Shoetnile installation 243 CIW-1450e Fri 7/8/20 Tue 18/8/20 Fri 7/8/20 244,249 244 CIW-14506 Revised type of pipe bedding between Manholes no. MHA01 and MHA02 078 096 0 days Mon 28/9/20 Wed 7/10/20 Mon 28/9/20 Wed 7/10/20 243 241 245 CIW-1450c Grade 200 Rockfill below the Formation level of the proposed pipe between MHA01 and MHA02 28 days Tue 11/8/20 Fri 11/9/20 Tue 11/8/20 Fri 11/9/20 244 100% Grade 200 Rockfill in ELS cofferdam of IRC 246 CIW-1450h 247 CIW-1451 Construct M/H MHA01, MHA02, MHA04 and Inlet Reception Chamber Wed 28/4/21 -194 days 88 days D3 . . . . D555 248 CIW-1452 Tue 1/9/20 Mon 7/9/20 249 CIW-1453 Additional Works for Manhole MHA01 Constructin and Pipe Connection to 094,14 0 days Tue 16/2/21 Wed 16/9/20 123 days Wed 16/9/20 NA 241,243 -76 days THIND. Additional Works for IRC and Pipe Connection to IRC from Existing Manhole 096 250 CIW-1454 17 days Fri 18/9/20 Fri 9/10/20 251,253,247 0 days Fri 18/9/20 Fri 9/10/20 0 days 251 CIW-1455 0 days Wed 21/10/20 Removal of left-in sheetpiles at IRC Mon 19/10/20 Wed 21/10/20 250 3 days 0 days 252 CIW-1456 Compliance Test for DN1800 Precast Concrete Pipe Fri 18/9/20 077 065 0 days Fri 18/9/20 Fri 18/9/20 Fri 18/9/20 1 day 0 days 253 CIW-1457 Lay 1800mm dia concretre pipe 24 days Sat 20/6/20 Mon 20/7/20 88 days Thu 17/9/20 Mon 25/1/21 Thu 17/9/20 NA 240,241,250 -72 days 100000 254 CIW-1458 KD1E Connection to existing Inlet Chamber 12 days Tue 21/7/20 Mon 3/8/20 12 days Tue 26/1/21 Mon 8/2/21 NA 253 43FF,309 -72 days 255 CIW-1500 Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain 150 days Thu 6/2/20 Fri 7/8/20 495 days Tue 26/11/19 Thu 29/7/21 Tue 26/11/19 0 days 51% 2222 256 CIW-1510 KD1B 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 278 43EE 309 -19 day 94% 257 CIW-1500a Diversion of Tank Drain MHD9.5 to MHA04 (approx. 70m 675mm dia conrel pipe, 24m DN250 DI leachate rising main, 90m CHES1&S2 DN250 CI ) 150 days Thu 6/2/20 Fri 7/8/20 Tue 26/11/19 Tue 6/7/21 Tue 26/11/19 NA 220 475 days 258 CIW-1500b Joint Initial Survey arrangement with MTRCL (NCE) 0 days 158 days Tue 26/11/19 Wed 10/6/20 Tue 26/11/19 Wed 10/6/20 0 days 259 CIW-1500c Site Clearance & inspection pit excavation under conforming alignments 0 days 36 days Fri 12/6/20 Sat 25/7/20 Fri 12/6/20 Sat 25/7/20 0 days 100% 260 CIW-1511 Tank Drain Diversion near MTRCL track 0 days 193 days Thu 11/6/20 Sat 30/1/21 Thu 11/6/20 75% 261 CIW-1511a Excavation of trial pit near MHD9.5 (TP45 & 47) 040 0 days 12 days Mon 27/7/20 Sat 8/8/20 Mon 27/7/20 Sat 8/8/20 262 266 0 days 262 CIW-1511b Uncharted cables found near MTRC track and identification 0 days Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 261 263 CIW-1511c Fri 19/6/20 Wed 24/6/20 Fri 19/6/20 Wed 24/6/20 5 days 264 CIW-1511d Fri 21/8/20 Lower the ground surface, opening and additional trial pit (TP38) Thu 11/6/20 Fri 21/8/20 263 265 CIW-1511e Fri 21/8/2 266 CIW-1511f Additional Trial Pit between MHD9.5 and MHA04 0 days Fri 21/8/20 Fri 18/9/20 Fri 21/8/20 Fri 18/9/20 261 25 days Tue 29/9/20 266 267 CIW-1511g 051 0 days 19 days Tue 8/9/20 Tue 29/9/20 Tue 8/9/20 Trimming of existing concrete surround 0 days 268 CIW-1511h Potential Delay for Construction of Manhole MHD9.5 0 days Sat 30/1/21 61 days Wed 18/11/20 Wed 18/11/20 -65 day: 269 CIW-1511i Compliance Test for DN675 and DN825 Precast concrete pipe 232 0 days Fri 18/12/20 1 day Fri 18/12/20 -31 days 270 CIW-1512 Additional Special manhole for tank drain (NCE) 0 days 35 days Mon 24/8/20 Mon 5/10/20 Mon 24/8/20 Mon 5/10/20 267 271,272 0 days 271 CIW-1513 Breaking of concrete surround of cables (0.8mx0.8mx70m) (NCE) 0 days 60 days Tue 6/10/20 Tue 15/12/20 Tue 6/10/20 NA 270 -28 days 2000 272 CIW-1514 KD1B Construction of tank drain along revised alignment (NCE) 0 days 221 days Tue 6/10/20 Tue 6/7/21 Tue 6/10/20 NA 270 269 273SS+80 days 43FF 309 -189 days 273 CIW-1515 Replacement of rock fill material (NCE) 0 days 105 days Tue 12/1/21 Sat 22/5/21 NA NA 272SS+80 days 274SS+80 days -158 days 274 CIW-1516 Backfilling with concrete bedding (NCE) 0 days 30 days Thu 22/4/21 Fri 28/5/21 NA 273SS+80 day -158 days 275 CIW-1520 Diversion of Sludge Pipes 75 days Tue 21/4/20 Tue 21/7/20 Mon 11/5/20 Thu 29/7/21 Mon 11/5/20 364 days 276 CIW-1520a Excavation of trial pit and identification of connection point 0 days 103 days Mon 11/5/20 Wed 9/9/20 Mon 11/5/20 Wod 9/9/20 Trench excavation for twin DN250 sludge pipe and stopped by AECOM 277 CIW-1520b Wed 15/7/20 Sat 18/7/20 Wed 15/7/20 Sat 18/7/20 276 278 CIW-1520c Fri 18/9/20 277 Fri 18/9/20 279 CIW-1520d 280 CIW-1520e Substandard DI 500 Sewage Pipe 0 days 50 days Mon 1/2/21 Tue 6/4/2 NA 234 2223 -115 days 281 CIW-1520f Encounter of uncharted concrete pipe within sheetpile cofferdam at MHA04 123 0 days 2 days Tue 10/11/20 Wed 11/11/20 0 days 282 CIW-1520g KD1B Thu 29/7/21 0 days NA 281 43FF,309 Resumption and construction of sludge pipe construction 253 days Sat 19/9/20 Sat 19/9/20 -209 days 283 CIW-1530 KD1B Diversion of Leachate Rising Main 60 days Tue 21/4/20 Fri 3/7/20 43FF,309 60 days Thu 29/4/21 Mon 12/7/21 NA 247 -194 days 284 CIW-1600 Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes) 156 days Thu 6/2/20 Fri 14/8/20 307 days Thu 19/3/20 Wed 31/3/21 Thu 19/3/20 0 days 285 CIW-1610 Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs MHD1A, 1B, 1C, 1D & 1E) 60 days Thu 6/2/20 Mon 20/4/20 50 days Sat 28/3/20 Mon 1/6/20 Sat 28/3/20 Mon 1/6/20 220FS+13 day 0 days 100% 286 CIW-1620 60 days Manholes construction and Pipe laving Mon 30/3/20 Sat 13/6/20 50 days Tue 2/6/20 Fri 31/7/20 Tue 2/6/20 Fri 31/7/20 43FF.293.287 0 days 100% 287 CIW-1621 Temporary Diversion of Existing DN200 Filitrate Rising Main 034 0 days 20 days Sat 1/8/20 Mon 24/8/20 Sat 1/8/20 Mon 24/8/20 286 288 289 0 days Summary Critical

Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Revised Works Programme (Status Date: 31/1/2021)
[Delay of the works due to some, but not all of, MCE/CE/EWN are shown in this programme]

hek Wu Hui Effluent Polishing Pl									[Delay of the works due to some, but not all of, NCE,		amme]									
Works for Sewage Treatment Activity ID Key Tas		/ECE/Bacch	line Baseline Start	Baseline Finish	Duration	Start	Finish Act	ual Start	Actual Finish Predecessors	Successors	Total Slack	Risk Allowance	% Complete	Individual Critical Path 2019	2020	2021	2022	2023	2024	
Date Date	E&M Equipment at Primary Sludge Thickeners to be Dismantled and Returned to	Duration 039 0 days	tion	NA	60 days	Tue 25/8/20	Thu 5/11/20	Tue 25/8/20	NA 287	Ouccessol 5	6 days	or Allowdillos	% Complete	July	January July	January July	January July	2023 January July	January July	Jan
5 GIW-1022	DSD/ST1	039 0 days	, INA	INA	ou days	100 23/0/20	1110 3/11/20	100 23/0/20	NA 267		6 uays		1376		i -	i i	i i		İ	i
39 CIW-1623	Pipeline Diversion Works near Primary Sludge Thickening Tank 114	0 days	s NA	NA	30 days	Tue 25/8/20	Mon 28/9/20	NA	NA 287	290,291	-5 days		0%		<u></u> ■				1	1
90 CIW-1624	Uncharted underground utilities at Proposed MHD5B 126			NA	41 days	Thu 12/11/20	Thu 31/12/20	NΑ	NA 289	291SS+15 days	-40 days		0%			<u> </u>			! 	i
								147								1 1	T I		I	1
91 CIW-1625	Uncharted underground utilities near Proposed MHD5B 141		/s NA	NA	26 days	Mon 30/11/20	Thu 31/12/20	NA	NA 290SS+15 days,289	292	-40 days		0%		1		. !		1	1
92 CIW-1630	Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs M1A 012 to M3B)	60 day	ays Tue 21/4/20	Fri 3/7/20	32 days	Thu 19/3/20	Wed 29/4/20	Thu 19/3/20	Wed 29/4/20 291	293,294	0 days		100%		_				 	1
	" ' '														i	i	i		1	i
293 CIW-1640		058 25 day		Wed 15/7/20	12 days	Mon 4/5/20	Sat 16/5/20	Mon 4/5/20	Sat 16/5/20 292,286	43FF,296	0 days		100%			1 1	T I		I	1
294 CIW-1650	Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with M/Hs MHD5A & 5R)	50 day	ays Thu 16/7/20	Fri 11/9/20	50 days	Wed 2/9/20	Mon 2/11/20	Wed 2/9/20	Mon 2/11/20 292,298,303,304,305,307	331SS	0 days		100%						1	1
	a 30)																		! 	1
295 CIW-1660	Provision of Pumping System from Screen to Flume Channel	87 0 days	/s NA	NA	90 days	Tue 10/11/20	Mon 1/3/21	Tue 10/11/20	NA	296	-87 days		0%				i i		Ī	i
296 CIW-1670 KD1B	Manholes construction and Pipe laying	45 day	ays Sat 23/5/20	Thu 16/7/20	50 days	Tue 3/11/20	Wed 31/3/21	Tue 3/11/20	NA 293,295	43FF	-113 days		48%		N	9. L /SI	1		I	1
297 CIW-2000	Decommission and Demolition of Existing Faciliates and Structures	240 da	days Mon 2/3/20	Fri 18/12/20	135 days	Thu 19/3/20	Tue 1/9/20	Thu 19/3/20	Tue 1/9/20 6,134,172,174		0 days		100%						 	
298 CIW-2100	Primary Sludge Thickening Tank No.1 and No.2	80 day	ays Mon 2/3/20	Tue 9/6/20	99 days	Thu 19/3/20	Tue 21/7/20	Thu 19/3/20	Tue 21/7/20	294	0 days		100%			i i	i i		i	i
299 CIW-2101	Additional Works for Temporary Diversion of Bypass Pipe near Primary Sludge 012	0 days	/s NA	NA	45 days	Thu 19/3/20	Sun 17/5/20	Thu 19/3/20	Sun 17/5/20		0 days		100%		To a second	1 1	T I		I	1
	Thickeners	,-	·   ·								,-								 	
300 CIW-2110	Removal of E&M equipment of primary sludge thickening tank 020	0 days	s NA	NA	1 day	Thu 4/6/20	Thu 4/6/20	Thu 4/6/20	Thu 4/6/20	301	0 days		100%		i i	i i	i i		I	i
301 CIW-2120	Decommission and Demolition the tank 052	80 day	avs Mon 2/3/20	Tue 9/6/20	27 days	Thu 18/6/20	Tue 21/7/20	Thu 18/6/20	Tue 21/7/20 300	303	0 days		100%		1	1 1			I .	1
302 CIW-2130	Demolition of structure no.2	0 days		NΔ	24 days	Mon 18/5/20	Mon 22/6/20	Mon 18/5/20			0 days		100%						 	
										004005004000					1	ii	i i		i I	i
303 CIW-2200	Primary Sludge Pump Pit	60 day		Thu 20/8/20	18 days	Wed 22/7/20	Tue 11/8/20	Wed 22/7/20	Tue 11/8/20 301	304,305,294,306	0 days		100%		•	1 1	T I		I	1
304 CIW-2300	Septic Tank	50 day	ays Fri 21/8/20	Tue 20/10/20	18 days	Wed 12/8/20	Tue 1/9/20	Wed 12/8/20	Tue 1/9/20 303	294	0 days		100%						1	1
305 CIW-2400	Diesel Tank	50 day	ays Wed 21/10/20	Fri 18/12/20	53 days	Thu 2/7/20	Tue 1/9/20	Thu 2/7/20	Tue 1/9/20 303	294	0 days		100%			i i			I	i
306 CIW-2410	Transfers of Remaining Diesel Fuel of Existing Diesel Tank 001	0 days	s NA	NA	15 days	Thu 2/7/20	Tue 21/7/20	Thu 2/7/20	Tue 21/7/20 303	307	0 days		100%		F	i i	i i		I	I
307 CIW-2420	Demolition of diesel tank	50 day	ays Wed 21/10/20	Fri 18/12/20	18 days	Wed 12/8/20	Tue 1/9/20	Wed 12/8/20	Tue 1/9/20 306	294	0 days		100%			1 1	1		I	1
308 CIW-3000 *	Inlet Works No.1 Building		days Sat 19/12/20	Mon 21/11/22	661 days	Wed 2/9/20	Wed 23/11/22	Wed 2/9/20	NA 6		715 days		0%			1 1			I 	1
			•							31000 - 40 do:	1081 days	1			1	1 i = =			I	i
309 CIW-3100	Predrilling (32nrs, 3rigs, 2.5days/drillhole/rig)	40 day		Mon 22/2/21	27 days	Tue 15/9/20	Mon 30/8/21	Tue 15/9/20		310SS+40 days			0%		1		1		1	1
310 CIW-3200	Pre-bored H piles (167nos, 2rigs, 2days/rig/pile)		days Tue 23/2/21	Wed 4/8/21	133 days	Tue 9/3/21	Wed 18/8/21	NA	NA 144,309SS+40 days,232,234	311SS+110 days,313,312		5	0%		I I				I I	1
311 CIW-3300	Sheetpile Installation ( 3,840sq.m, 1rigs, 50sqm/rig/day)	80 day	ays Tue 23/3/21	Wed 30/6/21	80 days	Fri 23/7/21	Wed 27/10/21	NA	NA 310SS+110 days,145	313	-23 days		0%		i I	22222	1		I	i
312 CIW-3400	Pile Load Test	26 day	ays Thu 5/8/21	Fri 3/9/21	21 days	Thu 19/8/21	Sat 11/9/21	NA	NA 310	313,314,315,318	13 days		0%		1	1 1 =	I I		I	1
313 CIW-3500	ELS works (strutting 4 layers, excavate soil 7445cu.m)	77 day	ays Sat 4/9/21	Mon 6/12/21	77 days	Sat 2/10/21	Tue 4/1/22	NA	NA 311,310,146,312		0 days	5	0%		1		1		[	I
314 CIW-3510	Phrase C (Grid A1 to G3) - Excavation to -3.3mPD and blinding	77 day	ays Fri 4/6/21	Mon 6/12/21	77 days	Sat 2/10/21	Tue 4/1/22	NA	NA 312		978 days		0%						l I	
315 CIW-3520	Phrase B (Grid A1 to G3) - Excavation to -3.5mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding		*	Mon 6/12/21	77 days	Sat 2/10/21	Tue 4/1/22	NA NA	NA 312	322,326			0%		I		1		I	i
		77 day								322,326	-2 days				T	1 1			I	1
316 CIW-3600	R.C. Structure works		days Thu 5/8/21	Thu 4/8/22	296 days	Thu 2/9/21	Thu 1/9/22	NA	NA 148,192,193,196,194		0 days	5	0%						 	
317 CIW-3610	Phase A (Grid G3 to L7)	105 da	days Thu 5/8/21	Wed 8/12/21	105 days	Thu 2/9/21	Sat 8/1/22	NA	NA		167 days		0%		i	i i	i i		i I	i
318 CIW-3611	Rebar fix and formwork and concreting for the pile cap (G/F)	40 day	ays Thu 5/8/21	Mon 20/9/21	40 days	Mon 13/9/21	Mon 1/11/21	NA	NA 312	319	158 days		0%		1				l .	1
319 CIW-3612	Rebar fix and formwork and concreting upto +13.45mPD (1/F)	25 day	ays Tue 21/9/21	Fri 22/10/21	25 days	Tue 2/11/21	Tue 30/11/21	NA	NA 318	320	158 days		0%			-			l i	1
320 CIW-3613	Rebar fix and formwork and concreting upto +25.80mPD (R/F)	40 day	ays Sat 23/10/21	Wed 8/12/21	40 days	Wed 1/12/21	Wed 19/1/22	NA	NA 319	44FF	158 days		0%		i				1	i
321 CIW-3620	Phase B (Gride A1 to G3) (621 sqm)	193 da		Thu 4/8/22	193 days	Wed 5/1/22	Tue 30/8/22	NA	NA		0 days		0%		T	1 1	T		I	1
322 CIW-3621					-			NA NA	NA 315	323			0%		1	1 1			1	1
322 GIW-3021	Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level	54 day	ays Tue 7/12/21	Mon 14/2/22	54 days	Wed 5/1/22	Fri 11/3/22	INA	NA 315	323	-2 days		076				2222		1	i
323 CIW-3622	Apply waterproofing membrance and backfilling	14 day	ays Tue 15/2/22	Wed 2/3/22	14 days	Sat 12/3/22	Mon 28/3/22	NΔ	NA 322,191	324	-2 days		0%		1	1 1	1 8		I	1
								NA NA			,				1	1 1			1	1
324 CIW-3623	Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level	105 da	days Thu 3/3/22	Thu 4/8/22	105 days	Tue 29/3/22	Sat 6/8/22	NA	NA 323	329,330,44FF	-2 days		0%				222222		 	1
005 004 0000	Phone 0 (04 to 10) (000 orms)	000 4	Th 46/0/04	Th 4/0/00	000 dave	W154 (00	0-140/44/00	NA.	NA		0 days		00/		i	ii	i i			i
325 CIW-3630	Phase C (G1 to L3) (662 sqm)		days Thu 16/9/21	Thu 4/8/22	260 days	Wed 5/1/22	Sat 19/11/22	NA			0 days		0%		T	1 1	1		I	1
326 CIW-3631	Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level	54 day	ays Tue 7/12/21	Mon 14/2/22	54 days	Wed 5/1/22	Fri 11/3/22	NA	NA 315	327	-2 days		0%		T.	1 1	CCCC		I .	1
																	_		l I	1
327 CIW-3632	Apply waterproofing membrance and backfilling	14 day	ays Tue 15/2/22	Wed 2/3/22	14 days	Sat 12/3/22	Mon 28/3/22	NA	NA 326,191	328	-2 days		0%		i	i i			I	i
328 CIW-3633 KD1C	Rebar fix and formwork and concreting for the Inlet Works structure upto Roof	105 da	days Thu 3/3/22	Thu 4/8/22	105 days	Tue 29/3/22	Sat 6/8/22	NA	NA 327	330,44FF,329	-2 days		0%		T	1 1			I	1
																			1	1
329 CIW-3700 KD1C	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	/s Thu 4/8/22	Thu 4/8/22	0 days	Sat 6/8/22	Sat 6/8/22	NA	NA 328,324	44FF	-2 days		0%				♦ 6/8		1	1
330 CIW-3800 SW1	ABWF works + BS works	90 day	ays Fri 5/8/22	Mon 21/11/22	90 days	Mon 8/8/22	Wed 23/11/22	NA	NA 328,195,153,324	56FF	715 days		0%		1	1 1	1		I	1
331 CIW-3900 SW2	Process Pipe CHE chainage 0-20 & CHF chainage 0-20	0 days	s NA	NA	0 days	Wed 2/9/20	Wed 2/9/20	Wed 2/9/20	Wed 2/9/20 294SS	57FF	0 days		100%		→ 2/9	1 1	. !		1	1
332 CPS-0000 *	Primary Sedimentation Tanks, B-3	1115 0	days Mon 18/11/19	Wed 23/8/23	1220 days	Mon 18/11/19	Fri 29/12/23	Mon 18/11/19	NA 8		390 days		23%		1				l I	1
333 CPS-1000	Operation of the Existing Primary sedimentation Tanks		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	334	1 day		62%				i		i I	i
															1		1		I	1
334 CPS-1100	Identification of existing cables near Primiary Sedimentation Tank	88 0 days		NA	65 days	Mon 26/7/21	Mon 11/10/21	NA	NA 333	335	0 days		0%			2222			1	1
335 CPS-1200	Reinstatement and re-commissioning of existing Primary Sedimentation Tank No. 4 and 6 (by others)	0 days	/s NA	NA	35 days	Tue 12/10/21	Mon 22/11/21	NA	NA 334	336	0 days		0%				1		l I	1
	1,7														i	1 1	i i		i	i
336 CPS-2000	Demolition of existing primary sedimentation tanks no. 1 & 2	45 day	ays Mon 13/12/21	Wed 9/2/22	45 days	Tue 23/11/21	Mon 17/1/22	NA	NA 134,172,174,335	337	0 days		0%		T		222		I	1
337 CPS-3000	Predrilling (68nrs, 3rigs, 3days/drillhole/rig)	38 day	ays Thu 10/2/22	Fri 25/3/22	38 days	Tue 18/1/22	Sat 5/3/22	NA	NA 336,139,422	338	0 days	1	0%						1	- 1
338 CPS-4000	Pre-bored H piles (205nos, 4rigs, 2days/pile/rig)	102 da	days Sat 26/3/22	Mon 1/8/22	102 days	Mon 7/3/22	Tue 12/7/22	NA	NA 337,144,423	339FS-40 days,341,340	0 days	5	0%		İ				i I	i
339 CPS-5000	Sheetpile Installation (FSP-II, 3360sq.m, 1rigs, 50sqm/rig/day)	85 day	ays Wed 25/5/22	Fri 2/9/22	85 days	Wed 25/5/22	Fri 2/9/22	NA	NA 338FS-40 days,145	341	0 days		0%		T	1 1			I	1
340 CPS-6000	Pile Load Test	26 day		Wed 31/8/22	26 days	Wed 13/7/22	Thu 11/8/22	NA NA	NA 338	341	19 days		0%		1				1	1
										342		2			1				I 	1
341 CPS-7000	ELS works (20000cu.m soil with 2 layers wailing / strutting)	45 day		Fri 28/10/22	45 days	Sat 3/9/22	Fri 28/10/22	NA	NA 338,147,340,339,140		0 days	3	0%		Ī	i i	SSS		I	i
342 CPS-8000 KD1D	R.C. Structure works	92 day	ays Sat 29/10/22	Mon 20/2/23	92 days	Sat 29/10/22	Mon 20/2/23	NA	NA 341,149	343,344,45FF,345,346	0 days	3	0%		1	i i	EXXXX		Į.	1
343 CPS-9000 KD1D	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	/s Mon 20/2/23	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA 342	45FF	0 days		0%		1	1 1	1	◆ 20/2	I I	1
344 CPS-10000 SW1	ABWF works + BS works	150 da	days Tue 21/2/23	Wed 23/8/23	150 days	Tue 21/2/23	Wed 23/8/23	NA	NA 342,195,153	56FF	495 days		0%		İ				i I	i
	Flowmeter Chamber no.1	60 day	ays Tue 21/2/23	Sat 6/5/23	60 days	Tue 21/2/23	Sat 6/5/23	NA	NA 342	56FF	585 days		0%		1	1 1	1		I .	1
		0 days		NA	255 days	Tue 21/2/23	Fri 29/12/23	NA	NA 342	58FF	390 days		0%		I I	1 1			1	1
345 CPS-11000 SW1	Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHI chainage 0-95 & CHJ				,-										İ	i i			I	i
345 CPS-11000 SW1	Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHI chainage 0-95 & CHJ chianage 0-40	o days					Fri 24/1/25	Mon 18/11/19	NA 9		78 days		18%		1		-			_
345 CPS-11000 SW1 346 CPS-12000 SW3			days Mon 18/11/19	Sat 12/8/23	1532 days	Mon 18/11/19							100%			1 1	1		l L	
345 CPS-11000 SW1 346 CPS-12000 SW3 CBR-0000 *	chianage 0-40 Bioreactors No.2A & 2B, B-4	1106 c		Sat 12/8/23 Wed 11/11/20				Mon 18/11/19	Wed 11/11/20 2	351FF	0 davs					1 1				Ţ.
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 •	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2	1106 c	days Mon 18/11/19	Wed 11/11/20	360 days	Mon 18/11/19	Wed 11/11/20			351FF	0 days					1 1			1	
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 349 CBR-2000	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3	1106 c 360 da 67 0 days	days Mon 18/11/19 vs NA	Wed 11/11/20 NA	360 days 80 days	Mon 18/11/19 Thu 1/10/20	Wed 11/11/20 Fri 8/1/21	Thu 1/10/20	NA 156	351FF 350	1251 days		41%			T I			 	
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 448 CBR-2000 550	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 081)	1106 c 360 da 67 0 days 0 days	days Mon 18/11/19 /s NA /s NA	Wed 11/11/20 NA NA	360 days 80 days 20 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21	Thu 1/10/20 NA	NA 156 NA 349	350	1251 days 1251 days		41%			-				 
345 CPS-11000 SW1  CPS-12000 SW3  347 CBR-0000 *  348 CBR-1000  CBR-2000 SW3	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3	1106 c 360 da 67 0 days	days Mon 18/11/19 /s NA /s NA	Wed 11/11/20 NA	360 days 80 days	Mon 18/11/19 Thu 1/10/20	Wed 11/11/20 Fri 8/1/21	Thu 1/10/20	NA 156		1251 days		41%			T I			' 	'
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 349 CBR-2000 3510 CBR-4000	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes	1106 c 360 da 67 0 days 0 days	days Mon 18/11/19 /s NA /s NA NA	Wed 11/11/20 NA NA NA	360 days 80 days 20 days 90 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21	Thu 1/10/20 NA NA	NA 156 NA 349 NA 348FF	350	1251 days 1251 days 1178 days		41% 0% 0%		-	-			' 	
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 349 CBR-2000 350 351 CBR-4000	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD  55	1106 c 360 da 67 0 days 0 days 0 days	Jays Mon 18/11/19 //s NA //s NA //s NA //s NA	Wed 11/11/20 NA NA NA	360 days 80 days 20 days 90 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21	Thu 1/10/20 NA NA Thu 15/10/20	NA 156 NA 349 NA 348FF NA 351FF	350 352FF	1251 days 1251 days 1178 days		41% 0% 0%		-					
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 349 CBR-2000 351 CBR-4000	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD  55	1106 c 360 da 67 0 days 0 days	Jays Mon 18/11/19 //s NA //s NA //s NA //s NA	Wed 11/11/20 NA NA NA	360 days 80 days 20 days 90 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21	Thu 1/10/20 NA NA	NA 156 NA 349 NA 348FF	350	1251 days 1251 days 1178 days		41% 0% 0%		-	-				
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 349 CBR-2000 350 CBR-4000	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD  55	1106 c 360 da 67 0 days 0 days 0 days	Jays Mon 18/11/19 //s NA //s NA //s NA //s NA //s NA	Wed 11/11/20 NA NA NA	360 days 80 days 20 days 90 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21	Thu 1/10/20 NA NA Thu 15/10/20	NA 156 NA 349 NA 348FF NA 351FF	350 352FF	1251 days 1251 days 1178 days		41% 0% 0%		-					
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 349 CBR-2000 350 CBR-4000 352 CBR-4100 353 CBR-4200 354 CBR-4300	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD  55  Installation of monitoring points before demolition of BR2	1106 c 360 da 67 0 days 0 days 95 0 days	Says Mon 18/11/19 S NA S NA S NA S NA S NA S NA S NA S NA	Wed 11/11/20 NA NA NA NA NA	360 days 80 days 20 days 90 days 164 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20 Sat 30/1/21	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21 Wed 10/2/21	Thu 1/10/20 NA NA Thu 15/10/20 Sat 30/1/21	NA 156 NA 349 NA 348FF NA 351FF NA 3559	352FF 352FF	1251 days 1251 days 1178 days 1177 days 0 days		41% 0% 0% 0%		-	6				
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 350 SSS CBR-4000 351 CBR-4000 352 CBR-4100 353 CBR-4200 354 CBR-4300 355 CBR-4300 355 CBR-5000	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2 no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD 55  Installation of monitoring points before demolition of BR2 113  Condition Survey for BR2 (NCE)  Demolition of existing bioreactor no.2	1106 c 360 da 67 0 days 0 days 0 days 219 0 days 0 days	days Mon 18/11/19  IS NA	NA NA NA NA Tue 20/4/21	360 days 80 days 20 days 90 days 164 days 10 days 1 day 50 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20 Sat 30/1/21 Thu 11/2/21 Sat 19/12/20	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21 Wed 10/2/21 Thu 11/2/21 Mon 22/2/21	Thu 1/10/20 NA NA Thu 15/10/20 Sat 30/1/21 NA Tue 10/11/20	NA 156 NA 349 NA 348FF NA 351FF NA 3559 NA 353 NA 134,172,174	350 352FF 354 360	1251 days 1251 days 1178 days 1177 days 0 days 0 days 1236 days		41% 0% 0% 0% 0% 0% 42%			10 1				
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 SW3 348 CBR-1000 349 CBR-2000 350 SSS CBR-4000 351 CBR-4000 352 CBR-4100 353 CBR-4200 354 CBR-4500 355 CBR-5100	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2 no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 081)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD 55  Installation of monitoring points before demolition of BR2 113  Condition Survey for BR2 (NCE)  Demolition of existing bioreactor no.2	1106 c 360 da 67 0 days 0 days 0 days 219 0 days 219 0 days 60 day 0 days	days Mon 18/11/19  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA  //S NA	Wed 11/11/20 NA NA NA NA NA NA Tue 20/4/21 NA	360 days 80 days 20 days 90 days 164 days 10 days 1 day 50 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20 Sat 30/1/21 Thu 11/2/21 Sat 19/12/20 Tue 10/11/20	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21 Wed 10/2/21 Thu 11/2/21 Mon 22/2/21 Sat 19/12/20	Thu 1/10/20  NA  NA  Thu 15/10/20  Sat 30/1/21  NA  Tue 10/11/20  Tue 10/11/20	NA 156 NA 349 NA 348FF NA 351FF NA 359 NA 353 NA 134,172,174 Sat 19/12/20	350 352FF 354 360 358,357	1251 days 1251 days 1178 days 1177 days 0 days 0 days 1236 days		41% 0% 0% 0% 0% 0% 42%			10				
445 CPS-11000 SW1 446 CPS-12000 SW3 447 CBR-0000 ** 448 CBR-1000 550 551 CBR-4000 552 CBR-4100 554 CBR-4200 555 CBR-5200 556 CBR-5100 557 CBR-5200	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 081)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD 55  Installation of monitoring points before demolition of BR2 113  Condition Survey for BR2 (NCE)  Demolition of existing bioreactor no.2  Identification and removal of existing cables 121  Diversion of existing lighting cable and Earthing ducts (NCE)	1106 c 360 da 67 0 days 0 days 95 0 days 219 0 days 60 day 0 days 60 day	days Mon 18/11/19 //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA	Wed 11/11/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	360 days 80 days 20 days 90 days 164 days 10 days 1 day 50 days 29 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20 Sat 30/1/21 Thu 11/2/21 Sat 19/12/20 Tue 10/11/20 Mon 21/12/20	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21 Wed 10/2/21 Thu 11/2/21 Mon 22/2/21 Sat 19/12/20 Tue 26/1/21	Thu 1/10/20  NA  NA  Thu 15/10/20  Sat 30/1/21  NA  Tue 10/11/20  Mon 21/12/20	NA 156 NA 349 NA 348FF NA 351FF NA 359 NA 353 NA 134,172,174 Sat 19/12/20 Tue 26/1/21 356	350 352FF 354 360	1251 days 1251 days 1275 days 1178 days 1177 days 0 days 0 days 1236 days 0 days 0 days		41% 0% 0% 0% 0% 0% 0% 42% 100%			10 1				
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 SW3 348 CBR-1000 SW3 349 CBR-2000 SW3 350 CBR-2000 SW3 351 CBR-4000 SW3 352 CBR-4100 SW3 353 CBR-4200 SW3 355 CBR-400 SW3 356 CBR-5000 SW3 357 CBR-5200 SW3 357 CBR-5200 SW3	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2 no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 081)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD 55  Installation of monitoring points before demolition of BR2 113  Condition Survey for BR2 (NCE)  Demolition of existing bioreactor no.2	1106 c 360 da 67 0 days 0 days 0 days 219 0 days 219 0 days 60 day 0 days	days Mon 18/11/19 //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA //S NA	Wed 11/11/20 NA NA NA NA NA NA Tue 20/4/21 NA	360 days 80 days 20 days 90 days 164 days 10 days 1 day 50 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20 Sat 30/1/21 Thu 11/2/21 Sat 19/12/20 Tue 10/11/20	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21 Wed 10/2/21 Thu 11/2/21 Mon 22/2/21 Sat 19/12/20	Thu 1/10/20  NA  NA  Thu 15/10/20  Sat 30/1/21  NA  Tue 10/11/20  Tue 10/11/20	NA 156 NA 349 NA 348FF NA 351FF NA 359 NA 353 NA 134,172,174 Sat 19/12/20 Tue 26/1/21 356	350 352FF 354 360 358,357	1251 days 1251 days 1178 days 1177 days 0 days 0 days 1236 days		41% 0% 0% 0% 0% 0% 42%			6				
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 359 CBR-4000 351 CBR-4000 352 CBR-4100 353 CBR-4200 354 CBR-3000 355 CBR-5000 357 CBR-5000 358 CBR-5000	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 081)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD 55  Installation of monitoring points before demolition of BR2 113  Condition Survey for BR2 (NCE)  Demolition of existing bioreactor no.2  Identification and removal of existing cables 121  Diversion of existing lighting cable and Earthing ducts (NCE)	1106 c 360 da 67 0 days 0 days 95 0 days 219 0 days 60 day 0 days 60 day	days Mon 18/11/19 //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA	Wed 11/11/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	360 days 80 days 20 days 90 days 164 days 10 days 1 day 50 days 29 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20 Sat 30/1/21 Thu 11/2/21 Sat 19/12/20 Tue 10/11/20 Mon 21/12/20	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21 Wed 10/2/21 Thu 11/2/21 Mon 22/2/21 Sat 19/12/20 Tue 26/1/21	Thu 1/10/20  NA  NA  Thu 15/10/20  Sat 30/1/21  NA  Tue 10/11/20  Mon 21/12/20	NA 156 NA 349 NA 348FF NA 351FF NA 359 NA 353 NA 134,172,174 Sat 19/12/20 Tue 26/1/21 356	350 352FF 354 360 358,357	1251 days 1251 days 1275 days 1178 days 1177 days 0 days 0 days 1236 days 0 days 0 days		41% 0% 0% 0% 0% 0% 0% 42% 100%			10				
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 349 CBR-2000 350 351 CBR-4000 353 CBR-4200 354 CBR-4300 355 CBR-5000 357 CBR-5200 358 CBR-5200 359 CBR-5400	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD 55  Installation of monitoring points before demolition of BR2 113  Condition Survey for BR2 (NCE)  Demolition of existing bioreactor no.2  Identification and removal of existing cables 121  Diversion of existing lighting cable and Earthing ducts (NCE)  Plugging and demolition of existing DN800 air main	1106 c 360 da 67 0 days 0 days 95 0 days 219 0 days 60 day 0 days 60 day 0 days	days Mon 18/11/19 //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA //s NA	Wed 11/11/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	360 days 80 days 20 days 90 days 164 days 10 days 1 day 50 days 35 days 4 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20 Sat 30/1/21 Thu 11/2/21 Sat 19/12/20 Tue 10/11/20 Mon 21/12/20 Mon 28/12/20	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21 Wed 10/2/21 Thu 11/2/21 Mon 22/2/21 Sat 19/12/20 Tue 26/1/21 Thu 31/12/20	Thu 1/10/20  NA  NA  Thu 15/10/20  Sat 30/1/21  NA  Tue 10/11/20  Mon 21/12/20  Mon 28/12/20	NA 156  NA 349  NA 348FF  NA 351FF  NA 359  NA 353  NA 134,172,174  Sat 19/12/20  Tue 26/1/21 356  Thu 31/12/20,356	350 352FF 354 360 358,357 360	1251 days 1251 days 1275 days 1178 days 1177 days 0 days 0 days 1236 days 0 days 0 days 0 days		41% 0% 0% 0% 0% 0% 0% 42% 100% 100%			6				
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 349 CBR-2000 350 CBR-4000 352 CBR-4100 353 CBR-4200	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD 55  Installation of monitoring points before demolition of BR2 113  Condition Survey for BR2 (NCE)  Demolition of existing bioreactor no.2  Identification and removal of existing cables 121  Diversion of existing lighting cable and Earthing ducts (NCE)  Plugging and demolition of existing DN800 air main  Overflow incident from BR1 to BR2 works area 77	1106 c 360 da 67 0 days 0 days 0 days 95 0 days 219 0 days 0 days 60 day 0 days	days Mon 18/11/19 //s NA	Wed 11/11/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	360 days 80 days 20 days 90 days 164 days 10 days 50 days 35 days 29 days 4 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20 Sat 30/1/21 Thu 15/10/20 Sat 30/1/21 Thu 11/2/21 Sat 19/12/20 Mon 21/12/20 Mon 28/12/20 Tue 19/1/21	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21 Wed 10/2/21 Thu 11/2/21 Mon 22/2/21 Mon 22/2/21 Thu 11/2/20 Tue 26/1/21 Thu 31/12/20 Wed 10/2/21	Thu 1/10/20  NA  NA  Thu 15/10/20  Sat 30/1/21  NA  Tue 10/11/20  Mon 21/12/20  Mon 28/12/20  Tue 19/1/21	NA 156  NA 349  NA 348FF  NA 351FF  NA 359  NA 353  NA 134,172,174  Sat 19/12/20  Tue 28/1/21 356  Thu 31/12/20 356  NA	350 352FF 354 360 358,357 360	1251 days 1251 days 1178 days 1177 days 0 days 0 days 1236 days 0 days 0 days 0 days 0 days		41% 0% 0% 0% 0% 0% 0% 42% 100% 100% 0% 0%			1,				
345 CPS-11000 SW1 346 CPS-12000 SW3 347 CBR-0000 * 348 CBR-1000 349 CBR-2000 350 SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	chianage 0-40  Bioreactors No.2A & 2B, B-4  Operation of 2no. Existing 800mm air mains over bioreactor no.2  Construction of Removable Steel Shutter in the Common Channel of BR2 and 3  Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)  Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes  Take Down E&M Equipment in Bioreactor BR2 and Return to DSD 55  Installation of monitoring points before demolition of BR2 113  Condition Survey for BR2 (NCE)  Demolition of existing bioreactor no.2  Identification and removal of existing cables 121  Diversion of existing lighting cable and Earthing ducts (NCE)  Plugging and demolition of existing DN800 air main  Overflow incident from BR1 to BR2 works area 77  Demolition of existing pipe bridge, partition wall and base slab (Stage 1)	1106 c 360 da 67 0 days 0 days 0 days 95 0 days 219 0 days 60 day 0 days 60 day 10 days 10 days 11 0 days 12 0 days 13 0 days 14 0 days 15 0 days 16 0 days 17 0 days 18 0 days 18 0 days 18 0 days 18 0 days 18 0 days 18 0 days 18 0 days	days Mon 18/11/19 //s NA //s N	Wed 11/11/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	360 days 80 days 20 days 90 days 164 days 10 days 50 days 35 days 29 days 4 days 45 days	Mon 18/11/19 Thu 1/10/20 Sat 9/1/21 Wed 13/1/21 Thu 15/10/20 Sat 30/1/21 Thu 15/10/20 Sat 30/1/21 Thu 11/2/21 Sat 19/12/20 Tue 10/11/20 Mon 21/1/2/20 Mon 28/12/20 Tue 19/1/21	Wed 11/11/20 Fri 8/1/21 Mon 1/2/21 Wed 5/5/21 Thu 6/5/21 Wed 10/2/21 Thu 11/2/21 Mon 22/2/21 Thu 11/2/20 Mon 22/2/21 Thu 3/1/2/20 Wed 10/2/21 Thu 3/1/2/20 Wed 10/2/21 Thu 25/3/21	Thu 1/10/20  NA  NA  Thu 15/10/20  Sat 30/1/21  NA  Tue 10/11/20  Mon 21/12/20  Mon 28/12/20  Tue 19/1/21  Fri 29/1/21	NA 156  NA 349  NA 348FF  NA 351FF  NA 359  NA 353  NA 134,172,174  Sat 191'12/20  Tue 26'1/21 356  Thu 31/12/20 356  NA  NA 357,354,359	350 352FF 354 360 358,357 360	1251 days 1251 days 1178 days 1177 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days		41% 0% 0% 0% 0% 0% 0% 42% 100% 100% 0% 0%							

Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Revised Works Programme (Status Date: 31/1/2021)
[Delay of the works due to some, but not all of, NCE/CE/EWN are shown in this programme] Civil Works for Sewage Treatm ID Activity ID Key Date Task Name Total Slack Risk Allowance 2020 July Januar NCE/ECE/Baseline Baseline Start Duration Finish Actual Start Actual Finish Predecessors Individual Critical Path Duration 131 days Tue 15/6/21 363 CBB-7000 Pre-bored H piles (157nos, 2rigs, 2days/pile/rig Thu 18/11/21 131 days Sat 22/5/21 Wed 27/10/21 NA 362 144 390 364FS-39 days 366 365 361 -21 days 364 CBR-8000 Sheetpile Installation (3000sg.m. 1rigs, 50sgm/rig/day) 60 days Wed 8/9/21 Fri 19/11/21 60 days Thu 9/9/21 Sat 20/11/21 NA 363FS-39 days.145 366 -16 days 365 CBB-9000 Pile Load Test 26 days Wed 8/9/21 Tue 19/1/21 26 days Thu 28/10/21 Fri 26/11/21 NA 363 -21 days FI S works (18100cu.m soil with 4 layers wailing / strutting) -21 days 366 CBB-10000 125 days Mon 20/12/21 Fri 27/5/22 140 days Sat 27/11/21 Mon 23/5/22 NA 363 364 147 365 140 367 CBB-11000 KD1E 180 days Sat 28/5/22 205 days Tue 24/5/22 Mon 30/1/23 NA 150 192 193 366 196 194 368,372,46FF,369,370,371,3 -21 day Sat 31/12/22 Allow access to Contractor DE/2018/04 for E&M installation and T&C works 0 days Sat 31/12/22 368 CBR-12000 KD1E Sat 31/12/22 0 days Mon 30/1/23 Mon 30/1/23 NA 367 369 CBR-13000 SW1 180 days 2023/1/3 2023/8/12 195 days Tue 31/1/23 Sat 23/9/23 NA 367 78 days 370 CBR-14000 SW1 195 days Mon 25/9/23 78 days 371 CBR-15000 SW1 Plug Valve Chamber no.1-2 180 days 2023/1/3 2023/8/12 195 days Tue 4/6/24 Fri 24/1/25 NA 367,370 78 days 372 CBR-16000 SW1 Sat 12/8/23 ABWF works + BS works 180 days Tue 3/1/23 Tue 31/1/23 Wed 6/9/23 NA 367,195,153 180 days 483 days Process Pipe CHQ chainage 65-170, CHP chainage 60-130, CHO chainage 65-140, CHL chainage 0-35 & CHK chianaee 0-50 373 CBR-17000 SW3 0 days 292 days Tue 31/1/23 Mon 22/1/24 NA 367 371 days 374 CMF-0000 Membrane Facilities Building, B-5 941 days Mon 6/1/20 Thu 9/3/23 1468 days Mon 18/11/19 Fri 8/11/24 Mon 18/11/19 142 days Operation of existing Final Sedimentation Tanks no.3 & 4 (CE 0026) 0 days 98 days Mon 18/11/19 Tue 17/3/20 Mon 18/11/19 Tue 17/3/20 2 0 days 376 CMF-1000 Demolition of existing final sedimentation tanks no. 3 & 4 14 days Mon 6/1/20 Tue 21/1/20 344 days Mon 6/1/20 Thu 4/3/21 Mon 6/1/20 NA 172.134.10 1227 days 98% 377 CMF-1100 Confirmation of Decommission Schedule 30 0 days 58 days Mon 6/1/20 Mon 16/3/20 Mon 6/1/20 Mon 16/3/20 0 days 100% 378 CMF-1200 Provision of new submersed pump 26 0 days 27 days Wed 4/3/20 Fri 3/4/20 Wed 4/3/20 Fri 3/4/20 377 0 days 100% 379 CMF-1205 Assistant to decommissioning of Final Sedimentation Tank No. 3 and 4 0 days 14 days Wed 4/3/20 Fri 3/4/20 Wed 4/3/20 Fri 3/4/20 378 0 days 380 CMF-1300 Additional dismantling works to retain specified electrical and mechanical equipment 013 21 days Tue 7/4/20 Wed 6/5/20 Tue 7/4/20 Wed 6/5/20 379 0 days 1000 Additional pluging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber 381 CMF-1400 70 days Mon 8/6/20 Sat 29/8/20 Mon 8/6/20 Sat 29/8/20 380 382 CMF-1500 032 0 days 383 CMF-1600 Isolation wall for RAS Channel No.1 035 0 days 40 days Mon 1/6/20 Sat 18/7/20 Mon 1/6/20 Sat 18/7/20 382 384 CMF-1700 Plug End of DN1400 Bioreactor No.2 Effluent Pipe 043 0 days Tue 16/6/20 Sat 29/8/20 Tue 16/6/20 Sat 29/8/20 63 days 385 CMF-1710 Removal of DN1400 Bioreactor No. 2 Effluent Pipe 043 0 days Thu 4/3/2 10 days Mon 22/2/21 1227 day 386 CMF-1800 Exposed and disconnet uncharted existing cable between FST3 and FST 4 038 0 days Thu 2/7/20 Fri 24/7/20 Thu 2/7/20 Fri 24/7/20 20 days 0 days 387 CMF-1110 Demolition of structure no. 3 & 4 Sat 29/8/20 14 days Mon 6/1/20 Tue 21/1/20 122 days Wed 1/4/20 Wed 1/4/20 Sat 29/8/20 0 days 388 CMF-1900 Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1 060 0 days 23 days Mon 31/8/20 Fri 25/9/20 Mon 31/8/20 Fri 25/9/20 383 0 days 389 CMF-2000 Predrilling (83nrs, 4rigs, 2.5days/drillhole/rig) 42 days Sat 6/6/20 Mon 27/7/20 31 days Mon 10/8/20 Mon 14/9/20 Mon 10/8/20 Mon 14/9/20 139.387 0 days 100% 390 CMF-3000 Pre-bored Hipiles (171nos, 2rigs, 1.5days/pile/rig) 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 23/1/21 389 144 388 363 391 392 0 days 391 CMF-3100 Change of Layout of Basement of MFB no. 2 0 days NA 17 days Tue 3/11/20 Sat 21/11/20 Tue 3/11/20 Sat 21/11/20 390 0 days 100% 392 CMF-4000 Pile Load Test 25 days Thu 14/1/21 Tue 16/2/21 19 days Mon 4/1/21 Mon 25/1/21 Mon 4/1/21 Mon 25/1/21 390 393 396 0 days 100% 393 CMF-5000 Installation of sheetpile (5200sq.m, 1rigs, 50sqm/rig/day 40 days Wed 22/1/20 Wed 11/3/20 100 days Fri 1/1/21 Mon 31/5/2 Fri 1/1/21 NA 392 396 -197 days 394 CMF-6000 169 days Wed 17/2/21 Tue 1/6/21 Sat 12/3/22 NA 10 234 days -197 days 395 CMF-6100 Pharse A (A1 to N6) - Excavation to -11mPD and blinding 112 45 169 days Wed 17/2/21 Thu 9/9/21 234 days Tue 1/6/21 Sat 12/3/22 -197 days 0% MFB 396 CMF-6110 Soil Excavation [Extended working hours 0700-1900 & reduction of excavation Tue 1/6/21 397 CMF-6120 Additional Rock Excavation [2200 cu.m, 7.5cu.m/group x 2] 0 days NA Tue 14/9/21 Sat 12/3/22 NA 396 -197 days 0% MEB 398 CMF-6200 Pharse B (A6 to N10) - Excavation to -1.9mPD and blinding 169 days Wed 17/2/21 100 days Tue 1/6/21 Tue 28/9/21 NA 395SS -33 days 0% MFB 399 CMF-7000 NA RC Structure works 232 days Fri 10/9/21 Sat 25/6/22 Tue 15/3/22 Thu 2/2/23 0% MFB 262 days -198 days 400 CMF-7100 KD1F Phase A - from B2 - Level 112 days Fri 10/9/21 Tue 25/1/22 Tue 15/3/22 Mon 1/8/22 NA 151.192.193.196.194.39 401SS+30 days.402.40 112 days -198 days 0% MFB 401 CMF-7110 KD1F Phase B - from B1 - Level 1 112 days Fri 10/9/21 Mon 5/9/22 NA 400SS+30 days,398 Tue 25/1/22 112 days Sat 23/4/22 403,404 -198 days 0% MFB 402 CMF-7120 KD1G Phase A - from Level 1 to Roof 120 days Wed 26/1/22 Sat 25/6/22 120 days Tue 2/8/22 Thu 22/12/22 NA 400 405,406,407 -168 days 0% MFB 403 CMF-7130 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 401 405,406,407 -198 days 0% MFB Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from R2-level 1) 404 CMF-8000 KD1F 0 days Tue 25/1/22 Tue 25/1/22 0 days Mon 5/9/22 Mon 5/9/22 NA 400.401 47FF -196 days 0% MFB Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from Level to Poof) 405 CMF-9000 KD1G 0 days Sat 25/6/22 Sat 25/6/22 0 days Thu 2/2/23 Thu 2/2/23 NA 402,403 48FF -198 days 0% MFB 406 CMF-10000 SW1 ABWF works + BS works Fri 8/11/24 56FF 210 days Mon 27/6/22 Thu 9/3/23 359 days Fri 3/2/23 NA 195 153 402 403 142 days 0% MFB 407 CMF-11000 SW3 Process Pipe CHQ chainage 0-65, CHM chainage 0-120, CHN chainage 0-125, CHO chainage 0-65, CHP chainage 0-60 & CHV chainage 0-50 0 days NA 450 days Fri 3/2/23 Sat 17/8/24 NA 402.403 210 days 0% MFB 408 CSA-0000 SAS Pumping Station, B-6 455 days Wed 20/5/20 Thu 25/11/21 Sat 18/4/20 Sat 13/8/22 Sat 18/4/20 NA 11 799 days 409 CSA-100 Tue 12/5/20 Mon 30/8/21 410 CSA-1100 Diversion of Existing SAS Rising Main near SAS Pumping Station (PPMI 025) 69 0 days 170 days Tue 9/6/20 Thu 31/12/20 Tue 9/6/20 Thu 31/12/20 Decommission of exisiting power and signal systems in leachate Pump station switch room (PPMI 039) 411 CSA-1200 412 CSA-1300 Construction of Cable trough for CLP 11kv Cable Diversion (PPMI 041) 61 0 days 91 days Tue 12/5/20 Thu 31/12/20 Tue 12/5/20 413 CSA-1400 Demolition of Existing Pillar box and its concrete plinth (PPMI 014) 30 0 days Wed 12/8/20 Mon 23/11/20 60 days Wed 12/8/20 414 CSA-1500 78 0 days Wed 17/6/20 Sat 21/11/20 415 CSA-1600 Diversion of Existing DN80 Permeate Rising Main near SAS Pumping station 89 0 days 72 days Tue 6/10/20 Thu 31/12/20 416 CSA-180 Relocation of Oil Interceptor Near Existing Compressor House 125 days Mon 3/8/20 418 CSA-1900 83 0 days 425,423,419 Diversion of pumping system sewerage 80 days Wed 23/9/20 Wed 30/12/20 Wed 23/9/20 -110 days . 8333 419 CSA-1910 Diversion of Existing copper pipe near proposed SAS pumping station 107 225 0 days 60 days Mon 19/10/20 Wed 30/12/20 Mon 19/10/20 Wed 30/12/20 418 0 days 420 CSA-1920 Pipework of proposed SAS Pumping Station - 13 nos. of puddles 221 0 days 180 days Mon 7/12/20 Mon 19/7/21 427SS+30 days -18 days Additional Sewage Rising main for SAS 220 0 days 215 days Tue 8/12/20 Mon 30/8/21 427SS+30 days -19 days 422 CSA-2000 Predrilling (4nrs, 1rig, 4days/drillhole/rig) 16 days Wed 20/5/20 Sat 6/6/20 7 days Sat 18/4/20 Sat 25/4/20 Sat 18/4/20 Sat 25/4/20 139 337 423 Pre-bored H piles (12nos, 1rigs, 4days/pile/rig) 60 days Mon 8/6/20 Tue 18/8/20 60 days Mon 18/1/21 Wed 31/3/21 Mon 18/1/21 NA 144 422 160 412 410 411 413 414 415 41 338 424 -210 days Pile Load Test 26 days Wed 19/8/20 Thu 17/9/20 Thu 1/4/21 Wed 5/5/2 NA 423 26 days -210 days Sheetpile Installation (FSP-II, 690sq.m, 40sqm/day) 28 days Wed 19/8/20 28 days Thu 6/5/21 Tue 8/6/2 NA 145 424 418 Sat 19/9/20 NA -210 day: 75 days NA 425,147,424,140 -210 days 186 days 428 CSA-8000 KD1H Allow access to Contractor DE/2018/03 for E&M installation and T&C works Mon 9/8/21 Tue 26/4/22 Mon 9/8/21 Tue 26/4/22 0 days 0 days -210 days 429 CSA-9000 SW 90 days Tue 10/8/21 90 days NA 427.195.153.465SS ABWF works + BS works Thu 25/11/21 Wed 27/4/22 Sat 13/8/22 799 days

421 CSA-1930 423 CSA-3000 424 CSA-4000 425 CSA-5000 426 CSA-6000 427 CSA-7000 KD1H 430 CAS-0000 Ancillary Structures, B-7 503 days Mon 7/9/20 Sat 21/5/22 Mon 9/11/20 Sat 19/3/22 404 days NA 12 48 days 431 CAS-1000 441,448,454,460,466 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 7/4/2 NA 134,172,174 48 days 432 CCS-1000 Chemical System No.1 168 days Mon 1/2/21 Thu 26/8/21 300 days Wed 17/3/21 Sat 19/3/22 24 days 433 CCS-1100 Excavation for Raft Footing (20cu.m) 10 days Mon 1/2/21 Thu 11/2/21 10 days Wed 17/3/21 Sat 27/3/21 NA 140 442,434 24 days 434 CCS-1110 Diversion of Leachate Bising Main near SSSH (PPMI 030) 0 days NA 30 days Mon 29/3/21 Thu 6/5/21 NA NA 433 435 24 days 435 CCS-1200 Plate load test 14 days Tue 16/2/21 Wed 3/3/21 14 days Fri 7/5/21 Mon 24/5/21 NA 434 24 days 436 CCS-1300 KD1J R.C. structure works 45 days Mon 15/3/21 Mon 10/5/21 60 days Tue 25/5/21 Wed 4/8/21 NA 435 51FF 440 43 24 days Construction of Flowmeter chamber, gate valve chamber and associated set (PMI 085) 437 CCS-1310 Thu 5/8/21 Sat 16/10/21 NA 436 438 CCS-1310 Demolition of SSSH Pump Pit and Associated Sewerage System (PMI 086) 60 days Mon 18/10/21 NA 437 Critical Data Date: 31/1/2021 Revision Date:06/02/2021 Page 6

Contract No. DC/2018/07

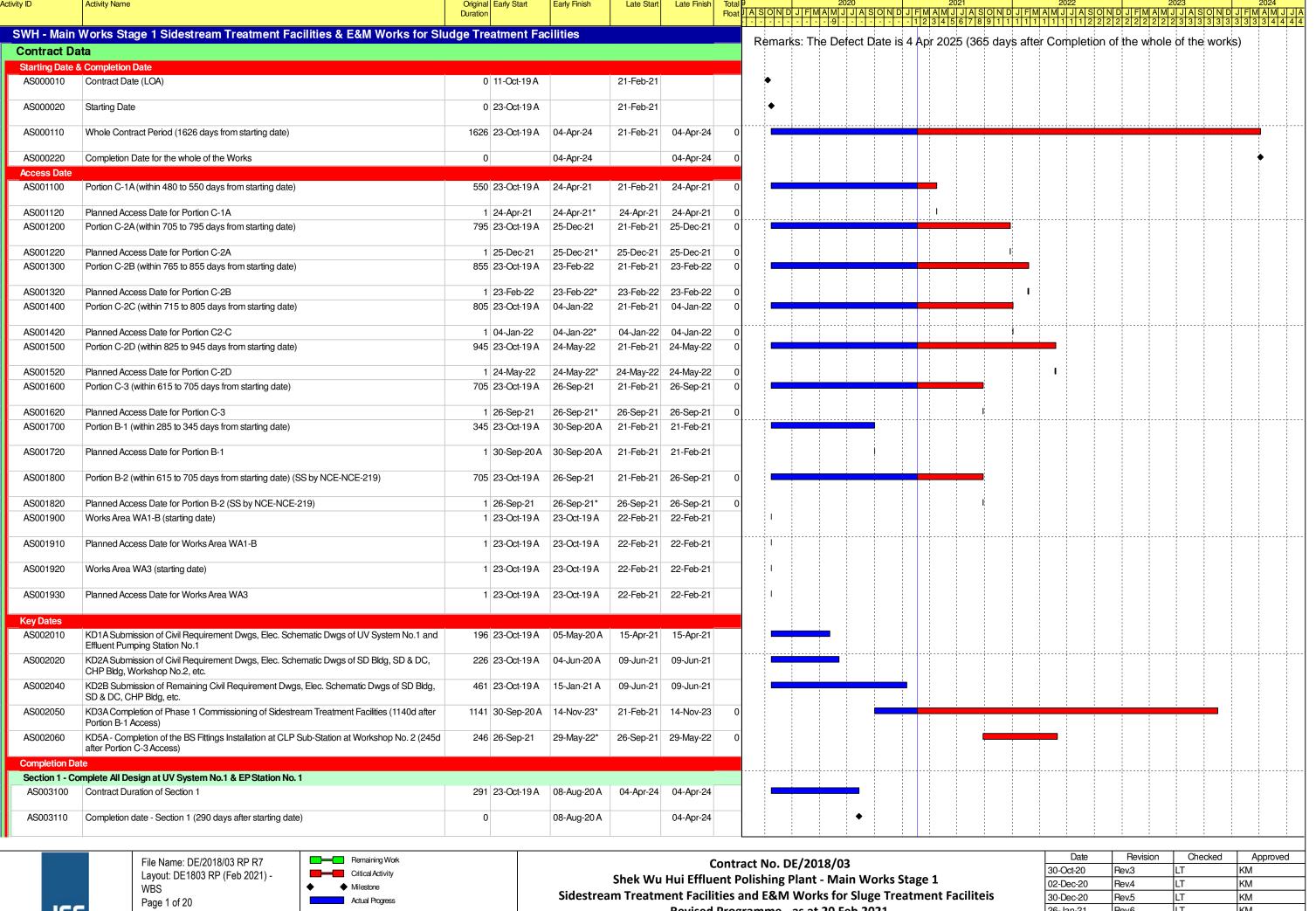
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Civil Works for Sewage Treatment Facilities

Revised Works Programme (Status Date: 31/1/2021)

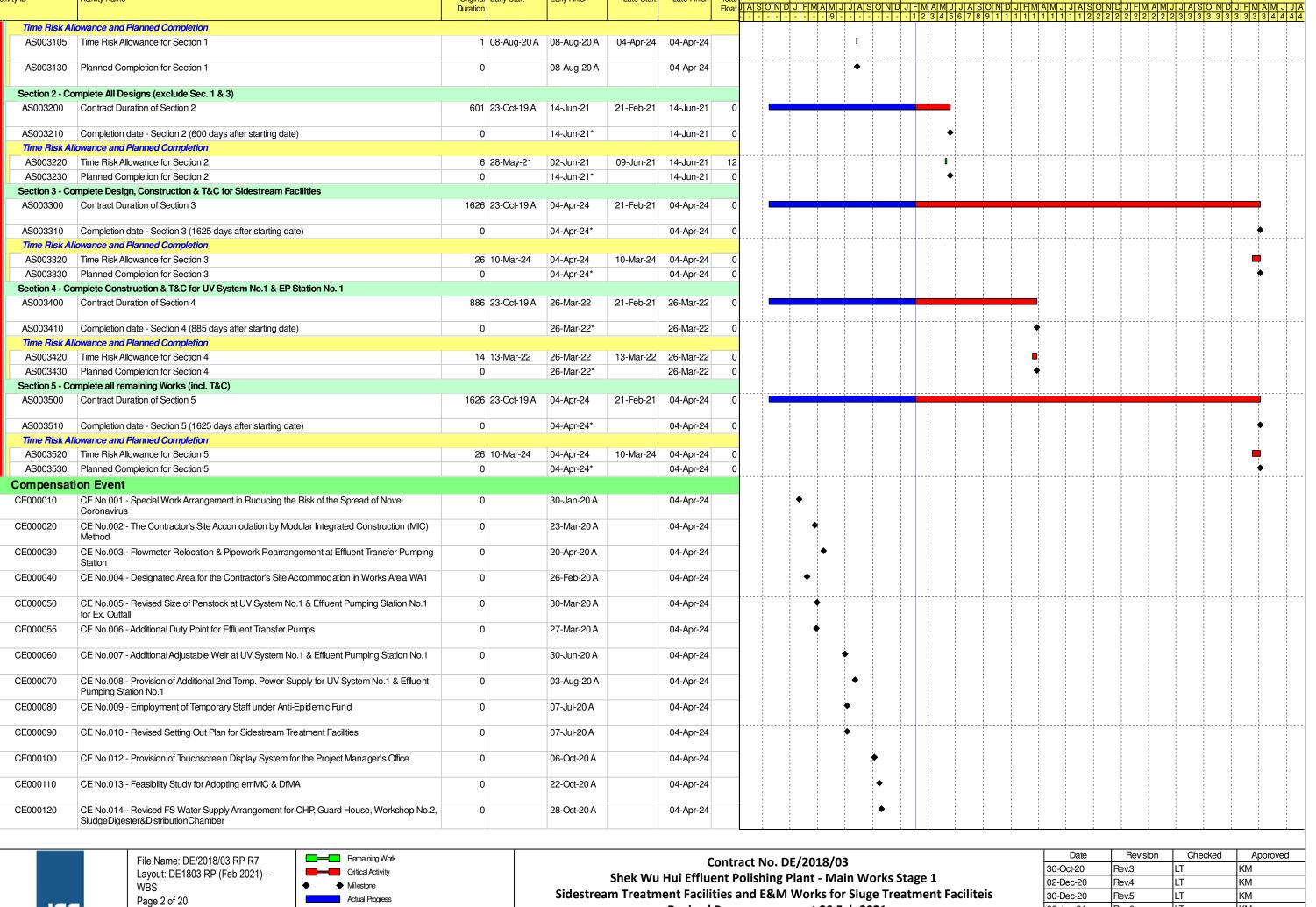
[Delay of the works due to some, but not all of, NCE/CE/EWN are shown in this programme]

ID Activity ID  439 CCS-1400  440 CCS-1500									[Delay Of th		EWN are shown in this prog	- Common								
439 CCS-1400	Key 1	ent Facilities Task Name	NCE/ECE/Bas	seline Baseline Start	Baseline Finish	Duration	Start	Finish Actual St	art Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance % Complete I	Individual Critical Path   20	119 2020	2021	2022	2023	2024	202
	Date	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		ration	Mon 10/5/21	0 days	Tue 28/12/21	Tue 28/12/21		NA 438	51FF	24 days	0%		July January July	January July	January July	January July	January July	January
		ABWF works + BS works		days Tue 11/5/21	Thu 26/8/21	90 days		Sat 19/3/22		NA 195,153,436,465SS	56FF	917 days	0%		!	1 1	20/12	!	1	
441 CCS-2000		Chemical System No.2		9 days Thu 4/3/21	Thu 21/10/21	284 days	Thu 8/4/21	Sat 19/3/22		NA 431	JOFF		0%			<u>-</u>			1	
442 CCS-2100		Excavation for Raft Footing (100cu.m)			Sat 20/3/21					NA 140.433	443.449	48 days			i		T. Control of the con	i	i	
442 CCS-2100 443 CCS-2200				days Thu 4/3/21		30 days	Thu 8/4/21	Thu 13/5/21		.,	443,449	48 days	0%			-			1	
		Plate load test		days Mon 22/3/21	Fri 9/4/21	14 days	Fri 14/5/21	Mon 31/5/21		NA 442		153 days	0%		i	i i •	i	i	i	
444 CCS-2300		R.C. structure works		days Tue 11/5/21	Mon 5/7/21	45 days		Sat 24/7/21		NA 443	445,51FF,446,447	153 days	2 0%		1	24/7	I			
445 CCS-2400		Allow access to Contractor DE/2018/04 for E&M installation and T&C works		Mon 5/7/21	Mon 5/7/21	0 days		Sat 24/7/21		NA 444	51FF	153 days	0%		i	<b>♦</b> 24/7	<u>i</u>	İ	i	
446 CCS-2500		ABWF works + BS works		days Tue 6/7/21	Thu 21/10/21	90 days		Sat 19/3/22		NA 195,153,444,465SS	56FF	917 days	0%						1	
447 CCS-2600		Demolition of existing chemical room		days Tue 6/7/21	Mon 13/9/21	60 days	Mon 26/7/21	Tue 5/10/21		NA 444	56FF	1052 days	0%						1	
448 CFS-1000		Fire Services Sprinkler Pumping Room		0 days Sat 10/4/21	Sun 3/1/21	254 days	Fri 14/5/21	Sat 19/3/22		NA 431		48 days	0%		1	1 1	-	1	1	
449 CFS-2000		Excavation for Raft Footing (800cu.m)	45 0	days Sat 10/4/21	Thu 3/6/21	60 days	Fri 14/5/21	Mon 26/7/21		NA 140,442	450,455,467	48 days	0%						1	
450 CFS-3000		Plate load test	14 0	days Fri 4/6/21	Mon 21/6/21	14 days	Tue 27/7/21	Wed 11/8/21		NA 449	451	78 days	0%		1	1.1	1	!	!	
451 CFS-4000		R.C. structure works	60 0	days Tue 6/7/21	Mon 13/9/21	60 days	Thu 12/8/21	Sat 23/10/21		NA 450	453,452,51FF	78 days	2 0%				I I			
452 CFS-5000		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 da	lays Mon 13/9/21	Mon 13/9/21	0 days	Sat 23/10/21	Sat 23/10/21	NA	NA 451	51FF	78 days	0%		i	The state of the s	23/10	i	i	
453 CFS-6000	SW1	ABWF works + BS works	90 0	days Tue 14/9/21	Mon 3/1/22	90 days	Mon 29/11/21	Sat 19/3/22	NA	NA 195,153,451,465SS	56FF	917 days	0%		1	1 1	_		1	
454 CTC-0000	*	Temporary Chemical Dosing System	191	1 days Tue 22/6/21	Thu 10/2/22	194 days	Tue 27/7/21	Sat 19/3/22	NA	NA 431		48 days	0%		i		<del></del>	i	i	
455 CTC-1000		Excavation for Raft Footing (300cu.m)	30 0	days Tue 22/6/21	Tue 27/7/21	30 days	Tue 27/7/21	Mon 30/8/21	NA	NA 140,449	456,461	48 days	0%		1	-	1		1	
456 CTC-2000		Plate load test	14 0	days Wed 28/7/21	Thu 12/8/21	14 days	Tue 31/8/21	Wed 15/9/21	NA	NA 455	457	63 days	0%			- i i	i		i	
457 CTC-3000	KD1J	R.C. structure works	30 0	days Tue 14/9/21	Thu 21/10/21	45 days	Thu 16/9/21	Wed 10/11/21	NA	NA 456	458,51FF,459	63 days	1 0%				i		1	
458 CTC-4000	KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 da	lays Thu 21/10/21	Thu 21/10/21	0 days	Wed 10/11/21	Wed 10/11/21	NA	NA 457	51FF	63 days	0%			- i i	<b>♦ 10/11</b>			
459 CTC-5000	SW1	ABWF works + BS works	90 0	days Fri 22/10/21	Thu 10/2/22	90 days	Mon 29/11/21	Sat 19/3/22	NA	NA 195,153,457,465SS	56FF	917 days	0%			1 1	-	1	1	
460 <b>CFB-0000</b>	*	Fire Hydrant and Booster Pump Room	177	7 days Fri 13/8/21	Thu 17/3/22	164 days	Tue 31/8/21	Sat 19/3/22	NA	NA 431		48 days	0%		l I	-	<del></del>	1		
461 CFB-1000		Excavation for Raft Footing (200cu.m)		days Fri 13/8/21	Thu 16/9/21	30 days	Tue 31/8/21	Wed 6/10/21	NA	NA 140,455	462	48 days	0%		1	1 1	1	1	i	
462 CFB-2000		Plate load test	14 0	days Fri 17/9/21	Tue 5/10/21	14 days	Thu 7/10/21	Sat 23/10/21	NA	NA 461	463	48 days	0%		[		I I	1	1 1	
463 CFB-3000		R.C. structure works		days Fri 22/10/21	Thu 25/11/21	30 days		Sat 27/11/21	NA	NA 462	464,465,51FF	48 days	1 0%		į	i i	•	1	į i	
464 CFB-4000		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 da		Thu 25/11/21	0 days	Sat 27/11/21	Sat 27/11/21	NA	NA 463	51FF	48 days	0%		[		<b>♦ 27/11</b>	1	1	
465 CFB-5000	SW1	ABWF works + BS works		days Fri 26/11/21	Thu 17/3/22	90 days	Mon 29/11/21	Sat 19/3/22		NA 463,195,153	56FF,471SS,459SS,453S		0%		i	i i		İ	i	
466 CEG-0000		Emergency Generator House		3 days Wed 6/10/21	Tue 26/4/22	194 days	Tue 27/7/21	Sat 19/3/22		NA 431	,,	88 days	0%		I I	-		1	1	
467 CEG-1000		Excavation for Raft Footing (100cu.m)		days Wed 6/10/21	Fri 29/10/21	20 days	Tue 27/7/21	Wed 18/8/21		NA 140,449	468	88 days	0%		ĺ			i		
468 CEG-2000		Plate load test		days Sat 30/10/21	Mon 15/11/21	14 days	Thu 19/8/21	Fri 3/9/21		NA 467	469	88 days	0%		I I	11	I	1	1	
469 CEG-3000		R.C. structure works		days Fri 26/11/21	Mon 3/1/22	30 days	Sat 4/9/21	Mon 11/10/21		NA 468	470,51FF,471	88 days	1 0%				i			
470 CEG-4000		Allow access to Contractor DE/2018/04 for E&M installation and T&C works		lays Mon 3/1/22	Mon 3/1/22	0 days		Mon 11/10/21		NA 469	51FF	88 days	0%		1		11/10	1	1	
471 CEG-5000		ABWF works + BS works		days Tue 4/1/22	Tue 26/4/22	90 days		Sat 19/3/22		NA 195,153,469,465SS	56FF	917 days	0%			<b>▼</b> !				
472 CDS-0000		Deodorization System No.1 and No.3A		days Tue 16/11/21	Sat 21/5/22	114 days	Mon 4/1/21	Tue 25/5/21		NA	0011	203 days	0%		1		1	1	1	
473 CDS-1000		Demolition of Existing Leachate Pump Pit		ays NA	NA	50 days		Fri 5/3/21		NA	474	203 days	0%							
474 CDS-2000				days Tue 16/11/21	Wed 8/12/21	20 days	Sat 6/3/21	Mon 29/3/21		NA 140,473,486	475	203 days	0%		i	1 1_	i	i	i	
474 CDS-2000 475 CDS-3000		Excavation for Raft Footing (400cu.m)  Plate load test			Fri 24/12/21			Sat 17/4/21		NA 474	476	203 days	0%			1.5-			1	
475 CDS-3000 476 CDS-4000		Footing works		days Thu 9/12/21 days Tue 4/1/22	Wed 26/1/22	14 days 30 days			NA	NA 4/4	476		0%		i	i i	i	i	i	
476 CDS-4000	KD1J	Footing works								114 475	100 5155									
133 000 5000	I/D / I	All Control of the Co					Mon 19/4/21	Tue 25/5/21		NA 475	477,51FF	203 days	0%		1		I	1		
477 CDS-5000		Allow access to Contractor DE/2018/04 for E&M installation and T&C works		lays Wed 26/1/22	Wed 26/1/22	0 days	Tue 25/5/21	Tue 25/5/21	NA	NA 476	477,51FF 51FF	203 days	0%		 	<b> </b>   <b> </b>   <b> </b>   <b> </b>   <b> </b>   <b> </b>   <b> </b>   <b> </b>	 			
478 <b>CAA-0000</b>	*	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)	662	lays Wed 26/1/22 2 days Wed 29/1/20	Wed 26/1/22 Fri 22/4/22	0 days	Tue 25/5/21 Mon 1/6/20	Tue 25/5/21 Thu 6/7/23	NA Ion 1/6/20	NA 476 NA	51FF	203 days 536 days	0% 39%				 	1		
	*		662	lays Wed 26/1/22	Wed 26/1/22	0 days	Tue 25/5/21	Tue 25/5/21 Thu 6/7/23	NA Ion 1/6/20	NA 476		203 days	0%				 			
478 <b>CAA-0000</b>	*	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)	662 180	Wed 26/1/22 2 days Wed 29/1/20 O days Wed 29/1/20	Wed 26/1/22 Fri 22/4/22	0 days 918 days 320 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  M	NA Ion 1/6/20	NA 476 NA NA 15,154,190	51FF	203 days 536 days	0% 39% 53%			♦ 25/5				
478 <b>CAA-0000</b> 479 <b>CAA-1000</b> 480 CAA-1100	KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design	057 0 da	Wed 26/1/22 2 days Wed 29/1/20 0 days Wed 29/1/20 NA	Wed 26/1/22 Fri 22/4/22	0 days 918 days 320 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20	NA Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Tue 10/11	NA 476 NA NA 15,154,190	51FF 53FF 483,484,485	203 days  536 days  0 days  0 days	0% 39% 53%			♦ 25/5		,		
478	* KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)	057 0 da 0 da	ays Wed 26/1/22 2 days Wed 29/1/20 O days Wed 29/1/20 Wed 39/1/20 NA NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA	0 days 918 days 320 days 135 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  M	NA Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Tue 10/11 Ion 1/6/20 Tue 10/11	NA 476 NA NA 15,154,190 20	53FF 483,484,485 483,484,485	203 days 536 days 0 days 0 days 0 days	0% 38% 53% 100%		-	<b>♦</b> 25/5				
478 <b>CAA-0000</b> 479 <b>CAA-1000</b> 480 CAA-1100	* KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)	057 0 da 0 da 0 da	Wed 26/1/22 2 days Wed 29/1/20 O days Wed 29/1/20 ays NA NA NA NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA	0 days 918 days 320 days 135 days 135 days	Mon 1/6/20 Mon 1/6/20 Mon 1/6/20 Mon 1/6/20 Mon 1/6/20 Mon 1/6/20	Tue 25/5/21  Thu 6/7/23	NA Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Tue 10/11 Ion 1/6/20 Tue 10/11	NA 476 NA 15,154,190 /20 /20	51FF 53FF 483,484,485	203 days 536 days 0 days 0 days 0 days 0 days	0% 39% 53% 100% 100% 100% 100%			♦ 25/5		 		
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300	* KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)	057 0 da 0 da 0 da	ays Wed 26/1/22 2 days Wed 29/1/20 O days Wed 29/1/20 Wed 39/1/20 NA NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA	0 days 918 days 320 days 135 days	Mon 1/6/20 Mon 1/6/20 Mon 1/6/20 Mon 1/6/20 Mon 1/6/20 Mon 1/6/20	Tue 25/5/21  Thu 6/7/23	NA Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Tue 10/11 Ion 1/6/20 Tue 10/11	NA 476 NA NA 15,154,190 20	53FF  483,484,485  483,484,485  483,484,485	203 days 536 days 0 days 0 days 0 days	0% 38% 53% 100%			<b>♦</b> 25/5		 		
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300	* KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP	057 0 da 0 da 0 da	Ays Wed 26/1/22 2 days Wed 29/1/20 D days Wed 29/1/20 Ays NA Ays NA D days Wed 29/1/20 Wed 29/1/20	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA	0 days 918 days 320 days 135 days 135 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20	Tue 25/5/21  Thu 6/7/23 M Mon 28/6/21 M  Tue 10/11/20 M  Tue 10/11/20 M  Tue 10/11/20 M  We 28/6/21 We	NA  10n 1/6/20  10n 1/6/20  10n 1/6/20  Tue 10/11  40n 1/6/20  Tue 10/11  40n 1/6/20  Tue 10/11  411/11/20	NA 476 NA 15,154,190 /20 /20	53FF  483,484,485  483,484,485  483,484,485	203 days 536 days 0 days 0 days 0 days 0 days	0% 39% 53% 100% 100% 100% 100%			♦ 25/5				
478	KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases	057 0 dc 0 dc 0 dc 0 dc 0 dc 0 dc 0 dc 0 d	ays Wed 26/1/22 2 days Wed 29/1/20 O days Wed 29/1/20 ays NA ays NA O days Wed 29/1/20 Ays NA O days NA Ays NA O days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20	Tue 25/5/21  Thu 6/7/23 M Mon 28/6/21 M  Tue 10/11/20 M  Tue 10/11/20 M  Tue 10/11/20 M  Mon 28/6/21 We  Mon 28/6/21 We	NA Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Tue 10/11 Ion 1/6/20 Tue 10/11 Ion 1/6/20 Tue 10/11 Id 11/11/20 Id 11/11/20	NA 476  NA 15,154,190  220  220  220  NA 480,481,482  NA 480,481,482	53FF  483,484,485  483,484,485  483,484,485	203 days 536 days 0 days 0 days 0 days 0 days -135 days	0% 39% 53% 100% 100% 9%		i i	♦ 25/5				
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400	KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP	057 0 dc 0 dc 0 dc 0 dc 0 dc 0 dc 0 dc 0 d	ays Wed 26/1/22 2 days Wed 29/1/20 O days Wed 29/1/20 ays NA ays NA O days Wed 29/1/20 Ays NA O days NA Ays NA O days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20	Tue 25/5/21  Thu 6/7/23 M Mon 28/6/21 M  Tue 10/11/20 M  Tue 10/11/20 M  Tue 10/11/20 M  We 28/6/21 We	NA Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Ion 1/6/20 Tue 10/11 Ion 1/6/20 Tue 10/11 Ion 1/6/20 Tue 10/11 Id 11/11/20 Id 11/11/20	NA 476  NA 15,154,190  220  220  NA 480,481,482	53FF  483,484,485  483,484,485  483,484,485	203 days 536 days 0 days 0 days 0 days 0 days 1 days 1 days 1 days 1 days	0% 39% 53% 100% 100% 100%		i i	♦ 25/5				
478	* KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactors Distibution Chamber No. 2 (PPMI 044)	057 0 da 0 da 0 da 180 064 0 da 180 065 0 da	ays Wed 26/1/22 2 days Wed 29/1/20 3 days Wed 29/1/20 Wed 29/1/20 Wed 29/1/20 Wed 29/1/20 Wed 29/1/20 Augs NA O days Wed 29/1/20 Augs NA Augs NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA NA Thu 3/9/20 NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 60 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20	Tue 25/5/21  Thu 6/7/23 M Mon 28/6/21 M  Tue 10/11/20 M  Tue 10/11/20 M  Tue 10/11/20 M  Mon 28/6/21 We  Mon 28/6/21 We	NA  NA  1on 1/6/20  1on 1/6/20  Tue 10/11  Aon 1/6/20  Tue 10/11  Aon 1/6/20  Tue 10/11  dol 1/6/20  Tue 10/11  dol 11/11/20  NA	NA 476  NA 15,154,190  /20  /20  NA 480,481,482  NA 480,481,482	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF	203 days 536 days 0 days 0 days 0 days -135 days -135 days -10 days	0% 39% 53% 100% 100% 100% 9% 9%			♦ 25/5				
478	KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House	067 0 dd 0 dd 180 064 0 dd 180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 wed 29/1/20 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA NA NA NA NA NA Sat 30/1/21	0 days 918 days 320 days 135 days 135 days 135 days 185 days 60 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Sat 30/1/21	NA  10n 1/6/20  10n 1/6/20  10n 1/6/20  Tue 10/11  10n 1/6/20  Tue 10/11  10n 1/6/20  Tue 10/11  10 11/11/20  NA  Fri 4/9/20	NA 476  NA 15,154,190  /20  /20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182	53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474	203 days  536 days  0 days  0 days  0 days  0 days  -135 days  -135 days  -10 days  0 days	0% 39% 53% 100% 100% 100% 9% 0% 59%			♦ 25/5				
478 CAA-0000 479 CAA-1100 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000	KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verilify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bloreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Power House	057 0 di 0 di 180 0 d	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days NA 3 NA 3 NA 3 NA 3 NA 3 NA 4 NA 4 NA 4 NA 5 NA 5 NA 6 NA 6 NA 6 NA 6 NA 6 NA 6 NA 6 NA 6	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA NA NA Thu 3/9/20  NA NA Sat 30/1/21 Fri 22/4/22	0 days 918 days 918 days 320 days 135 days 135 days 135 days 185 days 60 days 122 days 360 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23	NA  10n 1/6/20  10n 1/6/20  10n 1/6/20  Tue 10/11  40n 1/6/20  Tue 10/11  40n 1/6/20  Tue 10/11  40 11/11/20  NA  Fri 4/9/20  NA	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,134,172,174,182	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF	203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days 0 days	0% 39% 53% 100% 100% 9% 0% 59%			♦ 25/5				
478 CAA-0000 489 CAA-1100 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 488 CUU-0000	KD2B	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 13m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain	662 180 057	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 ays NA ays NA 0 days Wed 29/1/20 ays NA 0 days NA 2 days NA 2 days NA 0 days MA 2 days MA 1/2/20 1/2/20 1/2/20 1/2/20 1/2/20 1/2/20 1/2/20 1/2/20 1/2/20 1/2/20	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA Thu 3/9/20 NA NA Sat 30/1/21 Fri 22/4/22 Sat 28/10/23	0 days 918 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20	Tue 25/5/21  Thu 6/7/23 M Mon 28/6/21 M  Tue 10/11/20 M  Tue 10/11/20 M  Tue 10/11/20 M  Mon 28/6/21 We  Mon 28/6/21 We  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23 M M	NA  Ion 1/6/20  Ion 1/6/20  Jon 1/6/20  Tue 10/11  Jon 1/6/20  Tue 10/11  Jon 1/6/20  Tue 10/11  July 10/11  July 10/11  July 11/1/20  NA  NA  Da 27/4/20	NA 476  NA 15,154,190  220  220  220  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF	203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days 0 days 441 days	9% 100% 100% 100% 100% 9% 0% 59% 0% 11%		5333	♦ 25/5				
478 CAA-0000 479 CAA-1000 489 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 488 CUU-0000 489 CUU-1000	KD2B  KD11  SW3  KD2A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 13m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV Installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2 (PPMI 044)  B'7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)	057 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 0	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days Wed 29/1/20 3 days NA 3 days NA 4 days NA 5 days NA 6 days NA 6 days NA 6 days NA 7 days NA 7 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days Mon 1/2/21 8 days Mon 24/2/20 8 days Mon 24/2/20	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA Thu 3/9/20 NA NA Sat 30/1/21 Fri 22/4/22 Sat 28/10/23 Sat 27/3/21	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 100 days 101 days 222 days 272 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Mon 27/4/20	Tue 25/5/21  Thu 6/7/23 M Mon 28/6/21 M  Tue 10/11/20 M  Tue 10/11/20 M  Tue 10/11/20 M  Mon 28/6/21 We  Mon 28/6/21 We  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23 M  Wed 4/8/21 M	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  In 11/1/20  NA  Fri 4/9/20  NA  Don 27/4/20  Don 27/4/20	NA 476  NA 15,154,190  220  220  220  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154	53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474	203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days 0 days 441 days 8 d-103.8 days	9% 100% 100% 100% 100% 9% 9% 0% 11% 27%		S. S S	♦ 25/5				
478 CAA-0000 489 CAA-1100 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 488 CUU-0000	KD2B  KD11  SW3  KD2A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 13m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV Installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Alternation Power House  Alternation works for existing Power House  Alternation works for existing Alternation Power House  Alternation works for existing Alternation Power House  Alternation works for existing Alternation Power House  Alternation works for existing Alternation Power House  Alternation works for existing Alternation Power House  Alternation works for existing Alternation Power House  Alternation works for existing Alternation Power House  Alternation works for existing Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power House  Alternation Power	057 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 0	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days Wed 29/1/20 3 days NA 3 days NA 4 days NA 5 days NA 6 days NA 6 days NA 6 days NA 7 days NA 7 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days Mon 1/2/21 8 days Mon 24/2/20 8 days Mon 24/2/20	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA Thu 3/9/20 NA NA Sat 30/1/21 Fri 22/4/22 Sat 28/10/23	0 days 918 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20	Tue 25/5/21  Thu 6/7/23 M Mon 28/6/21 M  Tue 10/11/20 M  Tue 10/11/20 M  Tue 10/11/20 M  Mon 28/6/21 We  Mon 28/6/21 We  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23 M  Wed 4/8/21 M	NA  Ion 1/6/20  Ion 1/6/20  Jon 1/6/20  Tue 10/11  Jon 1/6/20  Tue 10/11  Jon 1/6/20  Tue 10/11  July 10/11  July 10/11  July 11/1/20  NA  NA  Da 27/4/20	NA 476  NA 15,154,190  220  220  220  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF	203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days 0 days 441 days	9% 100% 100% 100% 100% 9% 0% 59% 0% 11%		5333	♦ 25/5				
478 CAA-0000 479 CAA-1000 489 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 488 CUU-0000 4889 CUU-1000	KD2B  KD11  SW3  KD2A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verility the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bloreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  Special Treatment for Removing the Existing Abandoned DN1800 Br-pass Pipe and	057 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 0	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days Wed 29/1/20 3 days NA 3 days NA 4 days NA 5 days NA 6 days NA 6 days NA 6 days NA 7 days NA 7 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days Mon 1/2/21 8 days Mon 24/2/20 8 days Mon 24/2/20	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA Thu 3/9/20 NA NA Sat 30/1/21 Fri 22/4/22 Sat 28/10/23 Sat 27/3/21	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 100 days 101 days 222 days 272 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Mon 27/4/20	Tue 25/5/21  Thu 6/7/23 M Mon 28/6/21 M  Tue 10/11/20 M  Tue 10/11/20 M  Tue 10/11/20 M  Mon 28/6/21 We  Mon 28/6/21 We  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23 M  Wed 4/8/21 M	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  In 11/1/20  NA  Fri 4/9/20  NA  Don 27/4/20  Don 27/4/20	NA 476  NA 15,154,190  220  220  220  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF	203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days 0 days 441 days 8 d-103.8 days	9% 100% 100% 100% 100% 9% 9% 0% 11% 27%		S. S S	◆ 25/5				
478 CAA-0000 479 CAA-1000 489 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 488 CUU-0000 4889 CUU-1000	KD2B  KD11  SW3  KD2A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  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	057 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 1800 0 64 0 dd 1800 0 64 0 dd 122 3600 109 325 029 0 dd	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days Wed 29/1/20 3 days NA 3 days NA 4 days NA 5 days NA 6 days NA 6 days NA 6 days NA 7 days NA 7 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 8 days NA 9 days Mon 1/2/21 8 days Mon 24/2/20 8 ays NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA Thu 3/9/20 NA NA Sat 30/1/21 Fri 22/4/22 Sat 28/10/23 Sat 27/3/21	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 100 days 101 days 222 days 272 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Mon 27/4/20	Tue 25/5/21  Thu 6/7/23 M Mon 28/6/21 M  Tue 10/11/20 M  Tue 10/11/20 M  Tue 10/11/20 M  Mon 28/6/21 We  Mon 28/6/21 We  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23 M  Wed 4/8/21 M	NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  In 10/11/20	NA 476  NA 15,154,190  220  220  220  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF	203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days 0 days 441 days 8 d-103.8 days	9% 100% 100% 100% 100% 9% 9% 0% 11% 27%		S. S S	◆ 25/5				
478 CAA-0000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 487 CAA-3000 487 CAA-3000 489 CUU-10004 491 CUU-10004	KD2B  KD2B  KD11  SW3  KD2A  AB  KD2A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-9A. Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verility the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  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  Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPMI 044)	662 1800 1800 1800 1800 1800 1800 1800 180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 we	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  Sat 30/1/21  Fri 22/4/22  Sat 28/10/23  Sat 27/3/21  NA	0 days 918 days 918 days 320 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 185 days 500 days 122 days 360 days 124 days 272 days 54 days 60 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Mon 24/5/21	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Fri 22/1/21  Tue 6/7/23  Sat 28/10/23  Mrd 4/8/21  Mon 3/8/20  S  Wed 4/8/21	NA  1on 1/6/20  1on 1/6/20  1on 1/6/20  Tue 10/11  1on 1/6/20  Tue 10/11  1on 1/6/20  Tue 10/11  1on 1/6/20  Tue 10/11  1on 1/6/20  Tue 10/11  1on 1/6/20  NA  NA  In 27/4/20  In 27/4/20  In 27/4/20  In 3/8  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154  20  NA 492,489FF	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4	203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days -141 days 8 d-103.8 days 0 days	0% 39% 53% 100% 100% 100% 9% 9% 9% 0% 11% 27% 100%		S. S S	◆ 25/5				
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 488 CUU-10006 489 CUU-10006	KD2B  KD2B  KD11  SW3  KD2A  AB  KD2A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  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	662 1800 1800 1800 1800 1800 1800 1800 180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 we	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  Thu 3/9/20  NA  NA  Sat 30/1/21  Fri 22/4/22  Sat 28/10/23  Sat 27/3/21  NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 100 days 101 days 122 days 1041 days 1041 days 54 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Fri 22/1/21  Tue 6/7/23  Sat 28/10/23  Mrd 4/8/21  Mon 3/8/20  S  Wed 4/8/21	NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  In 10/11/20	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154  20  NA 492,489FF	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF	203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days -10 days 441 days 8 d-103.8 days 0 days	9% 100% 100% 100% 100% 100% 100% 100% 10		S. S S	◆ 25/5				
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 488 CUU-1000 489 CUU-10004 489 CUU-10004	KD2B  KD1I SW3  KD2A  A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 13m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV Installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  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  Trenchiess work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPMI 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area	057 0 dd 057 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 1800 1800 1800 1800 1800 064 0 dd 122 3600 109 325 029 0 dd	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 we	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  Sat 30/1/21  Fri 22/4/22  Sat 28/10/23  Sat 27/3/21  NA	0 days 918 days 320 days 135 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 180 days 182 days 20 days 160 days 160 days 160 days 40 days 40 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Mon 24/5/21  Thu 2/7/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  We  We  We  We  We  We  We  We  W	NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  NA  Fri 4/9/20  Ion 27/4/20  Ion 27/4/20  Ion 27/4/20  Ion 3/6  In 3/6	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154  20  NA 492,489FF	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4	203 days  536 days  0 days  0 days  0 days  0 days  10 days  135 days  -135 days  -136 days  -141 days  536 days  441 days  0 days  0 days  1103.2 days	0% 39% 53% 100% 100% 100% 0% 0% 55% 0% 0% 11% 27% 100%		S. S S	◆ 25/5				
478 CAA-0000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 487 CAA-3000 487 CAA-3000 489 CUU-10004 491 CUU-10004	KD2B  KD1I SW3  KD2A  A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 13m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV Installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 DI.)  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  Trenchiess work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPM 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV	057 0 dd 057 0 dd 0 dd 0 dd 0 dd 0 dd 0 dd 1800 1800 1800 1800 1800 064 0 dd 122 3600 109 325 029 0 dd	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 we	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  Sat 30/1/21  Fri 22/4/22  Sat 28/10/23  Sat 27/3/21  NA  NA  NA  NA	0 days 918 days 918 days 320 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 185 days 500 days 122 days 360 days 124 days 272 days 54 days 60 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Mon 24/5/21  Thu 2/7/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  We  We  We  We  We  We  We  We  W	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Idn 1/6/20  Tue 10/11  Id 11/11/20  NA  NA  In 27/4/20  In 30/5/20  NA  In 30/5/20  In 20/8	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 1465-1 day,134,172,174,182  NA 14FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154  20  NA 482,489FF	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4	203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days -141 days 8 d-103.8 days 0 days	0% 39% 53% 100% 100% 100% 9% 9% 9% 0% 11% 27% 100%		S. S S	◆ 25/5				
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 488 CUU-1000 489 CUU-10004 489 CUU-10004	KD2B  KD2B  KD11  SW3  KD2A  a	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 13m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verility the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Atternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  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 Pipeine CHR and CHS  Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPM 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR 8 CHS Process Pipe Works Area  Grouting for Sheung Shul Slaughter House Boundary Walls along CHR & CHS Pipes	662 1800 1800 1800 1800 1800 1800 1800 180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 2 days Wed 29/1/20 2 days NA 2 days NA 2 days NA 2 days NA 2 days NA 2 days NA 3 Mon 1/2/21 3 days Mon 24/2/20 3 ays NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  Sat 30/1/21  Fri 22/4/22  Sat 28/10/23  Sat 27/3/21  NA  NA  NA  NA	0 days 918 days 320 days 135 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 180 days 182 days 20 days 160 days 160 days 160 days 40 days 40 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Mon 24/5/21  Thu 2/7/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  We  We  We  We  We  We  We  We  W	NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  NA  Fri 4/9/20  Ion 27/4/20  Ion 27/4/20  Ion 27/4/20  Ion 3/6  In 3/6	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 1465-1 day,134,172,174,182  NA 14FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154  20  NA 482,489FF	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4	203 days  536 days  0 days  0 days  0 days  0 days  10 days  135 days  -135 days  -136 days  -141 days  536 days  441 days  0 days  0 days  1103.2 days	0% 39% 53% 100% 100% 100% 0% 0% 55% 0% 0% 11% 27% 100%		S. S S	◆ 25/5				
478 CAA-0000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 489 CUU-10004 489 CUU-10004 491 CUU-10004 492 CUU-1004	KD2B  KD2B  KD1I  SW3  KD2A  A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to veriify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  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 Pipeine CHR and CHS  Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPMI 044)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area  Grouting for Sheung Shul Slaughter House Boundary Walls along CHR & CHS Pipes Works Area  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH	662  180  057  0 da  0 da  180  064 0 da  180  064 0 da  180  190  325  029  0 da  0 da  100  0 da  100  0 da  100  0 da  100  0 da  100  0 da  0 da  0 da  0 da  0 da  0 da  0 da  0 da	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 we	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	0 days 918 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 60 days 122 days 360 days 124 days 54 days 60 days 43 days 43 days 30 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Mon 24/5/21  Thu 2/7/20  Fri 23/10/20  Thu 31/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Mod 4/8/21  Mon 3/8/20  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Fri 22/1/21	NA  10n 1/6/20  10n 1/6/20  10n 1/6/20  Tue 10/11  10n 1/6/20  Tue 10/11  10n 1/6/20  Tue 10/11  10n 1/6/20  Tue 10/11  10n 1/6/20  Tue 10/11  10n 11/1/20  NA  Fri 4/9/20  NA  Dn 27/4/20  Dn 27/4/20  NA  Thu 27/20  Thu 20/8  Thu 20/8  NA	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 16  NA 190,154  20  NA 492,489FF  20  NA 492,489FF	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4	203 days 536 days 0 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days -135 days -10 days 0 days -10 days 0 days -10 days 0 days -110.32 days 0 days -1103.2 days 0 days 0 days	0% 39% 53% 100% 100% 100% 100% 9% 9% 0% 11% 27% 100% 100% 84%		S. S S	◆ 25/5				
478 CAA-0000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 487 CAA-3000 487 CAA-3000 487 CAA-3000 489 CUU-10000 491 CUU-10000 492 CUU-1001 493 CUU-1004 494 CUU-1004 495 CUU-1004 496 CUU-1004	KD2B  KD1I SW3  KD2A  A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verility the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bloreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN800 D.I.)  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 (approx. 7m twin DN800 D.I.) (PPM 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area (PPMI 064)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Delay Delivery of DI pipes due to COVID-19	662   1800   180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 we	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	0 days 918 days 918 days 320 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 60 days 272 days 54 days 60 days 43 days 43 days 40 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Mon 24/5/21  Thu 2/7/20  Fri 23/10/20  Thu 31/12/20  Tue 22/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Fri 22/1/21  Tue 6/7/23  Sat 28/10/23  Min Mon 3/8/20  Sat 28/10/23  Mon 16/11/20  Thu 6/7/25  Sat 28/10/23  Min Mon 3/8/20  Sat 28/10/25  Thu 4/8/21  Thu 20/8/20  Mon 16/11/20  Fri Tue 4/2/21  Tue 9/2/21	NA  1on 1/6/20  1on 1/6/20  1on 1/6/20  Tue 10/11  1on 1/6/20  Tue 10/11  1on 1/6/20  Tue 10/11  1on 1/6/20  Tue 10/11  1on 1/6/20  Tue 10/11  1on 1/6/20  NA  Fri 4/9/20  NA  NA  NA  Thu 27/4/20  NA  Thu 27/20  NA  NA  NA  NA	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154  20  NA 492,489FF  20  NA NA	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4  491	203 days  536 days  0 days  0 days  0 days  0 days  135 days  -135 days  -10 days  363 days  41 days  0 days  1103.2 days  0 days  1248 days  363 days	0% 39% 53% 100% 100% 100% 9% 9% 0% 11% 27% 100% 100% 0% 0%		S. S S	◆ 25/5				
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1600 485 CAA-1600 486 CAA-2000 487 CAA-3000 487 CAA-3000 489 CUU-1000 491 CUU-1000 492 CUU-1001 493 CUU-1002 494 CUU-1004 495 CUU-1004 496 CUU-1004	KD2B  KD2B  KD11  SW3  KD2A  A  KD2A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verility the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  Special Treatment for Removing the Existing Abardsoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall for trenching work of Process Pipeline CHR and CHS  Trenchiess work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPM 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area  Grouting for Sheung Shul Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 064)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Delay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHDO1 and CHDO2	662   1800   180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days NA 3 ays NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	0 days 918 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 days 54 days 60 days 272 days 54 days 43 days 40 days 30 days 40 days 78 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Thu 27/20  Fri 23/10/20  Thu 31/12/20  Thu 31/12/20  Tue 22/12/20  Fri 4/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 3/6/21  Thu 6/7/23  Sat 28/10/23  Mu  Wed 4/8/21  Mon 3/8/20  S  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Fill  Thu 4/2/21  Thu 4/2/21  Thu 9/2/21  Thu 11/3/21	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Idn 1/1/1/20  In 10/11	NA 476  NA 15,154,190  20  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154  20  NA 492,489FF  20  NA NA NA NA NA NA NA NA NA NA NA NA NA N	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF  497FF	203 days  536 days  0 days  0 days  0 days  0 days  135 days  -135 days  -10 days  363 days  1103.2 days  0 days  1248 days  363 days  363 days  340 days	9% 100% 100% 100% 100% 9% 9% 9% 0% 1156 27% 100% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		SS. 8 SS	◆ 25/5				
478 CAA-0000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 489 CUU-10004 489 CUU-10004 491 CUU-10004 492 CUU-1004	KD2B  KD2B  KD11  SW3  KD2A  A  KD2A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.1.)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.1.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 39m twin DN900 D.1.)  Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Cortilict with the Proposed Sneetple wall for trenching work of Process Pipeline CHR and CHS  Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.1.) (PPM 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area (PPMI 064)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Delay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHD01 and CHD02  Process Pipes, including CHT, CHX, CHY, CHPS 182, CHS 5182, CHD 182, CHPS VHS, CHTPS CHEPT Staz, CHTE CHTP, CHS CHS DF Scenerol Celeston 8	662   1800   180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 we	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	0 days 918 days 918 days 320 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 60 days 272 days 54 days 60 days 43 days 43 days 40 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Thu 27/20  Fri 23/10/20  Thu 31/12/20  Thu 31/12/20  Tue 22/12/20  Fri 4/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 3/6/21  Thu 6/7/23  Sat 28/10/23  Mu  Wed 4/8/21  Mon 3/8/20  S  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Fill  Thu 4/2/21  Thu 4/2/21  Thu 9/2/21  Thu 11/3/21	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Idn 1/1/1/20  In 10/11	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154  20  NA 492,489FF  20  NA NA	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF  497FF	203 days  536 days  0 days  0 days  0 days  0 days  135 days  -135 days  -10 days  363 days  41 days  0 days  1103.2 days  0 days  1248 days  363 days	0% 39% 53% 100% 100% 100% 9% 9% 0% 11% 27% 100% 100% 0% 0%		SS. 8 SS	◆ 25/5				
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1600 485 CAA-1600 486 CAA-2000 487 CAA-3000 487 CAA-3000 489 CUU-1000 491 CUU-1000 492 CUU-1001 493 CUU-1002 494 CUU-1004 495 CUU-1004 496 CUU-1004	KD2B  KD2B  KD11  SW3  KD2A  A  KD2A	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Change of pipe bridge design  Additional inspection pit to verility the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  Special Treatment for Removing the Existing Abardsoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall for trenching work of Process Pipeline CHR and CHS  Trenchiess work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPM 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area  Grouting for Sheung Shul Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 064)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Delay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHDO1 and CHDO2	662   1800   180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days NA 3 ays NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	0 days 918 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 days 54 days 60 days 272 days 54 days 43 days 40 days 30 days 40 days 78 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Thu 27/20  Fri 23/10/20  Thu 31/12/20  Thu 31/12/20  Tue 22/12/20  Fri 4/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 3/6/21  Thu 6/7/23  Sat 28/10/23  Mu  Wed 4/8/21  Mon 3/8/20  S  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Fill  Thu 4/2/21  Thu 4/2/21  Thu 9/2/21  Thu 11/3/21	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Idn 1/1/1/20  In 10/11	NA 476  NA 15,154,190  20  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,154  20  NA 492,489FF  20  NA NA NA NA NA NA NA NA NA NA NA NA NA N	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF  497FF	203 days  536 days  0 days  0 days  0 days  0 days  135 days  -135 days  -10 days  363 days  1103.2 days  0 days  1248 days  363 days  363 days  340 days	9% 100% 100% 100% 100% 9% 9% 9% 0% 1156 27% 100% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		SS. 8 SS	◆ 25/5				
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Change of pipe bridge design  Additional inspection pit to verility the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)  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 (approx. 7m twin DN900 D.I.) (PPM 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area  Grouting for Sheung Shul Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 064)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Delay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHD01 and CHD02  Process Pipes, including CHT 12C, CHTT; CHY, CHY, CHS 2, CHS 1&2, CHD 1&2, CHPESP, including CHT 1&2, CHTE, CHTD, Foam Collection & Surplus activated shudge rising main pipe  Prainage  Severage  Waterworks  Cable Ducts  Roadworks  Landscaping Works	662   180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	0 days 918 days 320 days 135 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 185 days 20 days 43 days 43 days 43 days 457 days 457 days 457 days 457 days 440 days 470 days 470 days 470 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Mon 24/5/21  Thu 2/7/20  Thu 3/1/2/20  Thu 3/1/2/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Sat 7/5/22  Sat 20/6/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 7/5/22  Sat 20/6/22	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  Thu 6/7/23  Sat 28/10/23  Min 4/8/21  Thu 6/7/23  Sat 28/10/23  Mon 16/11/20  Fin 6/5/22  Mon 16/11/20  Fin 6/5/22  Mod 4/8/22  Mod 4/8/21  Tue 9/2/21  Thu 1/3/21  Fin 6/5/22  Mod 17/8/22	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Iden 1/6/20  Tue 10/11  Iden 1/6/20  NA  Fri 4/9/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	NA 476  NA 15,154,190  20  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 14FS-1 day,181  NA 16  NA 190,185  NA 190,489FF  20  NA 492,489FF  20  NA 492,489FF  NA 190,489SS+48 days, 154,495FF,496FF  NA 190,489SS+48 days, 154  NA 489SS+48 days, 190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 190,489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF  497FF  57FF,502  57FF,502  57FF,502  57FF,502  54FF	203 days  536 days  0 days  0 days  0 days  0 days  0 days  -135 days  -135 days  -10 days  41 days  84 d-103.8 days  0 days  0 days  1103.2 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days  0 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		S. 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478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1600 485 CAA-1600 486 CAA-2000 487 CAA-3000 487 CAA-3000 489 CUU-1000 489 CUU-1000 491 CUU-1000 492 CUU-1000 493 CUU-1000 494 CUU-1000 495 CUU-1000 496 CUU-1000 497 CUU-1000 498 CUU-1000 499 CUU-1000 499 CUU-1000 490 CUU-1000 491 CUU-1000 492 CUU-1000 493 CUU-1000 494 CUU-1000 495 CUU-1000 496 CUU-1000 500 CUU-5000 501 CUU-5000 502 CUU-7000 503 CUU-7000 504 CUU-7000 505 CUU-7000 505 CUU-7000 505 CUU-7000 506 CUU-7000 507 CUU-7000 508 CUU-7000 509 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000	KD2B  KD2B  KD11  SW3  KD2A  a  KD2A  SW2  SW2  SW2  SW2  SW2  SW2  SW2  S	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.1.)  Change of pipe bridge design  Additional inspection pit to verility the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.1.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.1.)  Special Treatment for Removing the Evisting Abardoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall for trenching work of Process Pipeine CHR and CHS  Trenchiess work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.1.) (PPM 040)  Removal of Abardoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area  Grouting for Sheung Shul Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 064)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Delay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHDO1 and CHDO2  Process Pipes, CHTPS, CHTP, CHT, CHT, CHTP, CHTP, CHTD, Foam Cellection & Surplus activated studge rising main pipe  Sewerage  Waterworks  Cable Ducts  Roadworks  Landscaping Works  Irrigation System	662   662	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days NA 3 ays NA 3 ays NA 3 ays NA 4 ays NA 4 ays NA 5 days Mon 24/2/20 6 days NA 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Wed 11/5/22 7 days Wed 11/5/22	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  Sat 30/1/21  Fri 22/4/22  Sat 28/10/23  Sat 27/3/21  NA  NA  NA  NA  NA  NA  NA  NA  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	0 days 918 days 320 days 135 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 180 days 180 days 20 days 54 days 54 days 43 days 457 days 457 days 457 days 457 days 440 days 440 days 479 days 479 days 479 days 489 days 120 days 120 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/20  Mon 27/4/20  Sat 30/5/20  Thu 27/20  Thu 31/12/20  Thu 31/12/20  Thu 31/12/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Sat 7/5/22  Sat 20/6/22  Sat 20/6/22  Sat 20/6/22  Sat 20/6/22	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  Thu 6/7/23  Sat 28/10/23  Mu  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Sat 28/10/23  Fi 6/5/22  Mo  Sat 28/10/23  Fi 6/5/22  Mo  Sat 28/10/23  Fi 6/5/22  Mo  Sat 28/10/23  Fi 25/4/25  Fi 13/1/23	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Iden 1/6/20  Tue 10/11  Iden 1/6/20  Tue 10/11  Iden 1/6/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	NA 476  NA 15,154,190  20  20  20  20  NA 480,481,482  NA 480,481,482  NA 19FS-1 day,134,172,174,182  NA 18FS-1 day,134,172,174,182  NA 19S-1 day,181  NA 16  NA 190,154  20  NA 492,489FF  20  NA 190,489SS+48 days,154,495FF,496FF  NA 190,489SS+48 days,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,5489S+48 days,190,154  NA 190,50FS+2 days,190  NA 16	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF  497FF  57FF,502  57FF,502  57FF,502  504FS+2 days,57FF  505,58FF	203 days  536 days  0 days  0 days  0 days  0 days  10 days  -135 days  -135 days  -10 days  363 days  1103.2 days  0 days	0%		S. S S	<b>♦</b> 25/5				
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1400 484 CAA-1500 485 CAA-1600 486 CAA-2000 487 CAA-3000 487 CAA-3000 489 CUU-10001 490 CUU-10001 491 CUU-10001 492 CUU-10001 492 CUU-10001 493 CUU-10001 494 CUU-10001 495 CUU-10001 496 CUU-10001 497 CUU-2000 498 CUU-3000 499 CUU-3000 490 CUU-3	KD2B  KD2B  KD11  SW3  KD2A  A  KD2A  A  KD2A  COMMENT  KD2A  COMMENT  SW2  SW2  SW2  SW2  SW2  SW2  SW2  SW	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.1.)  Change of pipe bridge design  Additional inspection pit to verilty the connection point to existing (CE xxx)  Atternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.1.)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.1.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Power House  Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.1.)  Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sneetpile wall for trenching work of Process Pipeline CHR and CHS  Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.1.) (PPM 040)  Removal of Abandoned DN1900 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area (PPMI 064)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Delay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHD01 and CHD02  Process Pipes, Including CHT, CHX, CHY, CHPS182, CHS S182, CHD0 182, CHPS (CHT), CHT, CHT, CHT), Foam Collection & Surplus activated studge rising main pipe  Waterworks  Landscaping Works  Irrigation System  Hard Landscaping Works	662 180 180 180 180 180 180 180 180 180 180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA 3 NA	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  Sat 30/1/21  Fri 22/4/22  Sat 28/10/23  Sat 27/3/21  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	0 days 918 days 320 days 135 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 186 days 20 days 40 days 43 days 457 days 457 days 457 days 457 days 457 days 450 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11//11/20  Wed 11//11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Thu 27/4/20  Thu 27/20  Thu 27/20  Thu 27/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Sat 7/5/22  Sat 20/6/22  Sat 20/6/22  Sat 14/1/23	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  Tue 10/11/20  Mon 3/8/20  Sat 28/10/23  Mon 3/8/20  Sat 28/10/23  Mon 16/11/20  Fin 6/5/22  Mon 16/11/20  Fin 6/5/22  Mod 17/8/22  Mod 17/8/22  Mod 17/8/22  Mod 17/8/22  Mod 17/8/22  Mod 17/8/22  Mod 3/8/25  Fin 6/5/22  Mod 3/8/25  Fin 6/5/22  Mod 3/8/25  Fin 6/5/22  Mod 3/8/25  Fin 6/5/22  Mod 3/8/25  Fin 13/1/23  Wed 3/0/8/23	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Iue 10/11  Ind 11/11/20  Iue 10/11  Ind 11/11/20  Iue 10/11	NA 476  NA 15,154,190  20  20  20  NA 480,481,482  NA 480,481,482  NA 480,481,482  NA 13FS-1 day,134,172,174,182  NA 15FS-1 day,181  NA 16  NA 190,154  20  NA 492,489FF  20  NA 498,484,484  NA 190,489SS+48 days,154,495FF,496FF  NA 190,489SS+48 days,190,154  NA 489SS-148 days,190,154  NA 489SS-148 days,190,154  NA 489SS-148 days,190,154  NA 489SS-148 days,190,154  NA 489SS-148 days,190,154  NA 489SS-148 days,190,154  NA 489SS-148 days,190,154  NA 489SS-148 days,190,154  NA 501,498,499,497  NA 16  NA 500FS+2 days,190  NA 500FS+2 days,190  NA 500FS+2 days,190  NA 500FS+2 days,190  NA 500FS+2 days,190  NA 500FS+2 days,190  NA 500FS+2 days,190  NA 500FS+2 days,190	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF  57FF,502  57FF,502  57FF,502  502,57FF  502,57FF  505,58FF  506,58FF	203 days  536 days  0 days  0 days  0 days  0 days  0 days  10 days  -135 days  -135 days  -10 days  536 days  441 days  8 d -103.8 days  0 days  0 days  1103.2 days  0 days  1248 days  340 days  0 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		S. S S	◆ 25/5				
478 CAA-0000 479 CAA-1000 480 CAA-1100 481 CAA-1200 482 CAA-1300 483 CAA-1600 485 CAA-1600 486 CAA-2000 487 CAA-3000 487 CAA-3000 489 CUU-1000 489 CUU-1000 491 CUU-1000 492 CUU-1000 493 CUU-1000 494 CUU-1000 495 CUU-1000 496 CUU-1000 497 CUU-1000 498 CUU-1000 499 CUU-1000 499 CUU-1000 490 CUU-1000 491 CUU-1000 492 CUU-1000 493 CUU-1000 494 CUU-1000 495 CUU-1000 496 CUU-1000 500 CUU-5000 501 CUU-5000 502 CUU-7000 503 CUU-7000 504 CUU-7000 505 CUU-7000 505 CUU-7000 505 CUU-7000 506 CUU-7000 507 CUU-7000 508 CUU-7000 509 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000 500 CUU-7000	KD2B  KD2B  KD11  SW3  KD2A  A  KD2A  SW2  SW2  SW2  SW2  SW2  SW2  SW2  S	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)  B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.1.)  Change of pipe bridge design  Additional inspection pit to verility the connection point to existing (CE xxx)  Additional MBV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.1.)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases  Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2 (PPMI 044)  B7-A Alternation works for existing Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m twin DN900 D.1.)  Special Treatment for Removing the Evisting Abardoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall for trenching work of Process Pipeine CHR and CHS  Trenchiess work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.1.) (PPM 040)  Removal of Abardoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area  Grouting for Sheung Shul Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 064)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Delay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHDO1 and CHDO2  Process Pipes, CHTPS, CHTP, CHT, CHT, CHTP, CHTP, CHTD, Foam Cellection & Surplus activated studge rising main pipe  Sewerage  Waterworks  Cable Ducts  Roadworks  Landscaping Works  Irrigation System	662   180	ays Wed 26/1/22 2 days Wed 29/1/20 2 days Wed 29/1/20 3 days NA 3 ays NA 3 ays NA 3 ays NA 4 ays NA 4 ays NA 5 days Mon 24/2/20 6 days NA 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 6 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Mon 29/6/20 7 days Wed 11/5/22 7 days Wed 11/5/22	Wed 26/1/22  Fri 22/4/22  Thu 3/9/20  NA  NA  NA  NA  NA  NA  NA  Sat 30/1/21  Fri 22/4/22  Sat 28/10/23  Sat 27/3/21  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	0 days 918 days 320 days 135 days 135 days 135 days 135 days 135 days 185 days 185 days 185 days 180 days 180 days 20 days 54 days 54 days 43 days 457 days 457 days 457 days 457 days 440 days 440 days 479 days 479 days 479 days 489 days 120 days 120 days	Tue 25/5/21  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Mon 1/6/20  Wed 11/11/20  Wed 11/11/20  Fri 4/9/20  Tue 19/4/22  Mon 27/4/20  Sat 30/5/20  Thu 27/4/20  Thu 27/4/20  Thu 27/4/20  Thu 27/4/20  Thu 27/20  Thu 31/12/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Sat 7/5/22  Sat 20/6/22  Sat 14/1/23  Thu 31/8/23	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  We  Mon 28/6/21  Thu 6/7/23  Sat 28/10/23  Mu  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Fi 6/5/22  Mo  Sat 28/10/23  Fi 6/5/22  Mo  Sat 28/10/23  Fi 6/5/22  Mo  Sat 28/10/23  Fi 6/5/22  Mo  Sat 28/10/23  Fi 25/4/25  Fi 13/1/23	NA  NA  Ion 1/6/20  Ion 1/6/20  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ion 1/6/20  Tue 10/11  Ind 11/11/20  NA  Fri 4/9/20  NA  Ion 27/4/20  Ion 27/4/20  Ind 3/05/20  Ind 3/05/20  Ind 3/05/20  Ind 19/10/20  Ind 19/10/20  Ind 19/10/20  Ind 19/10/20  Ind NA  NA  NA  NA  NA  NA  NA  NA  NA  NA	NA 476  NA 15,154,190  20  20  20  20  NA 480,481,482  NA 480,481,482  NA 19FS-1 day,134,172,174,182  NA 18FS-1 day,134,172,174,182  NA 19S-1 day,181  NA 16  NA 190,154  20  NA 492,489FF  20  NA 190,489SS+48 days,154,495FF,496FF  NA 190,489SS+48 days,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 489SS+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,489S+48 days,190,154  NA 190,5489S+48 days,190,154  NA 190,50FS+2 days,190  NA 16	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF  497FF  57FF,502  57FF,502  57FF,502  504FS+2 days,57FF  505,58FF	203 days  536 days  0 days  0 days  0 days  0 days  10 days  -135 days  -135 days  -10 days  363 days  1103.2 days  0 days	0%		S. 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Date	Revision	Checked	Approved				
30-Oct-20	Rev.3	LT	KM				
02-Dec-20	Rev.4	LT	KM				
30-Dec-20	Rev.5	LT	KM				
26-Jan-21	Rev.6	LT	KM				
26-Feb-21	Rev.7	LT	KM				



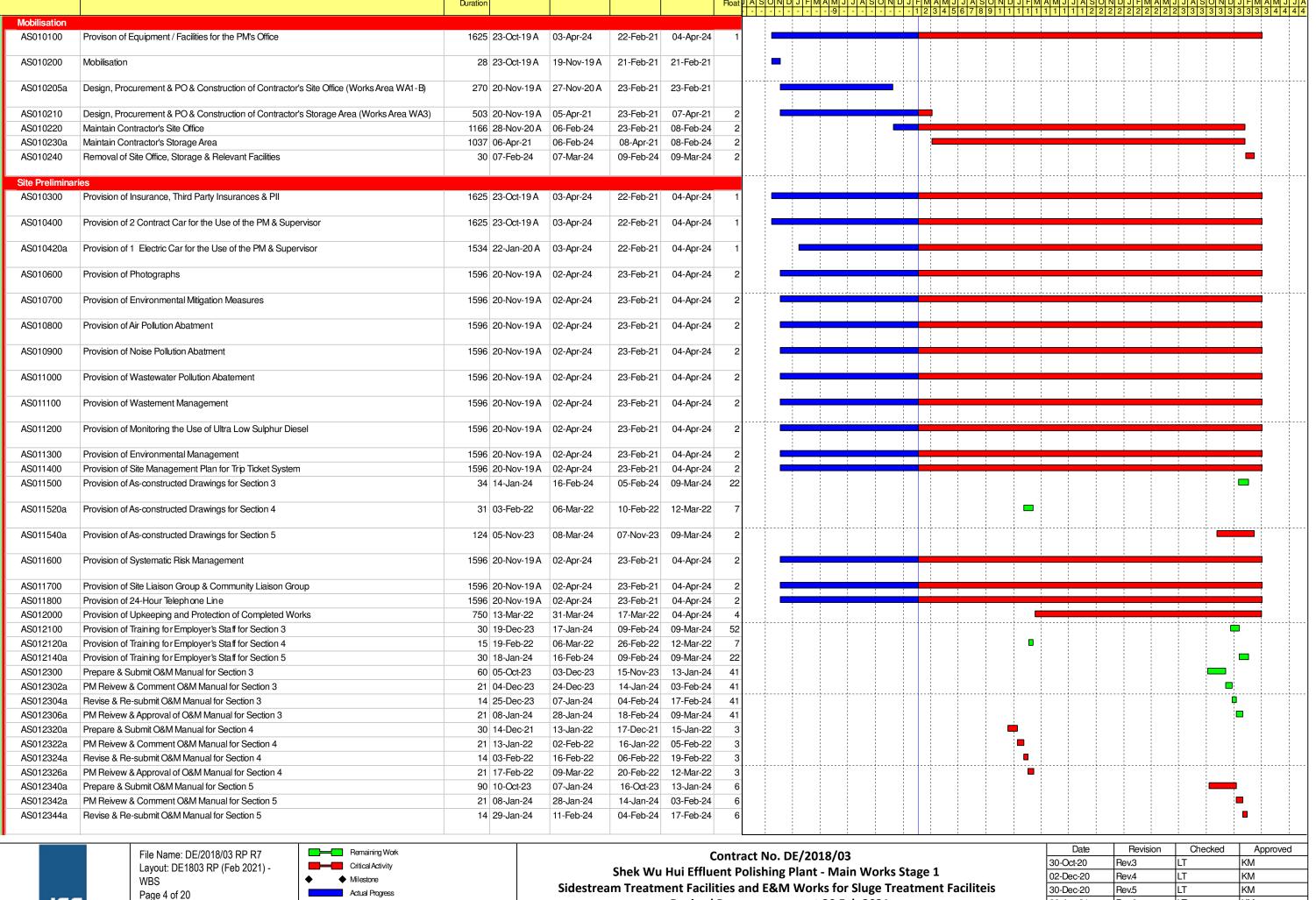
Actual Progress

Date	Revision	Checked	Approved				
30-Oct-20	Rev.3	LT	KM				
02-Dec-20	Rev.4	LT	KM				
30-Dec-20	Rev.5	LT	KM				
26-Jan-21	Rev.6	LT	KM				
26-Feb-21	Rev.7	LT	KM				

Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start		Total 9	I SIOINI I	ΠΕΙΜΙΔΙΜ	2020	NDJE		21   <u>al siol</u> n	DUEMA	2022 M.H.HALS		ILEIMIΔIN	2023   J	2024 D. J. E.M. A.M.	
		Duration				Float P /											2333333		
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				•										
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				•	•									
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					•									
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	0	02-Dec-20 A		04-Apr-24					•									
CE000196	NCE-PMI-0212 - Provision of Louvre Panel for Outdoor AC Units at Contractor's Site Accommodation	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 Systems 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	NCE-NCE-0219 - Revised Access Date for Portion B-2a	1 31-Mar-22	31-Mar-22*	31-Mar-22	31-Mar-22	0													
CE000256	NCE-NCE-0219 - Portion B-2b (within 615 to 705 days from starting date)	705 23-Oct-19 A	26-Sep-21	21-Feb-21	26-Sep-21	0	_												
CE000258	NCE-NCE-0219 - Revised Access Date for Portion B-2b	1 26-Sep-21	26-Sep-21*	26-Sep-21	26-Sep-21	0													
CE000250	NCE-PMI-0220 - Supply of Puddle Pipes for Effluent to Shek Sheung River	0	30-Dec-20 A	20-3 <del>c</del> p-21	04-Apr-24					•									
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 Building	0	12-Jan-21 A		04-Apr-24					•									
CE000290	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 UV Disinfeciton System	0	25-Jan-21 A		04-Apr-24					•									
Preliminari	·																		
	File Name: DE/2018/03 RP R7												_ <del></del>	Date		Revision	Checked	Approv	ved
	File Name: DE/2018/03 RP R7 Layout: DE1803 RP (Feb 2021) - Remaining Work Critical Activity							E/2018/			_		3	30-Oct-20	Rev		LT	KM	
	WBS ← Milestone				ı Hui Effluei		_			_			Ī	2-Dec-20	Rev.	.4	LT	KM	
	Page 3 of 20 Actual Progress		Sidestrea	am Treatn	nent Faciliti				•		ent Fa	ciliteis		30-Dec-20	Rev		LT	KM	
IC	1 ugo o oi 20				Revised P	rngra	mme -	as at 20	Feb 2021	I			[2	26-Jan-21	Rev.	6	IT	KM	

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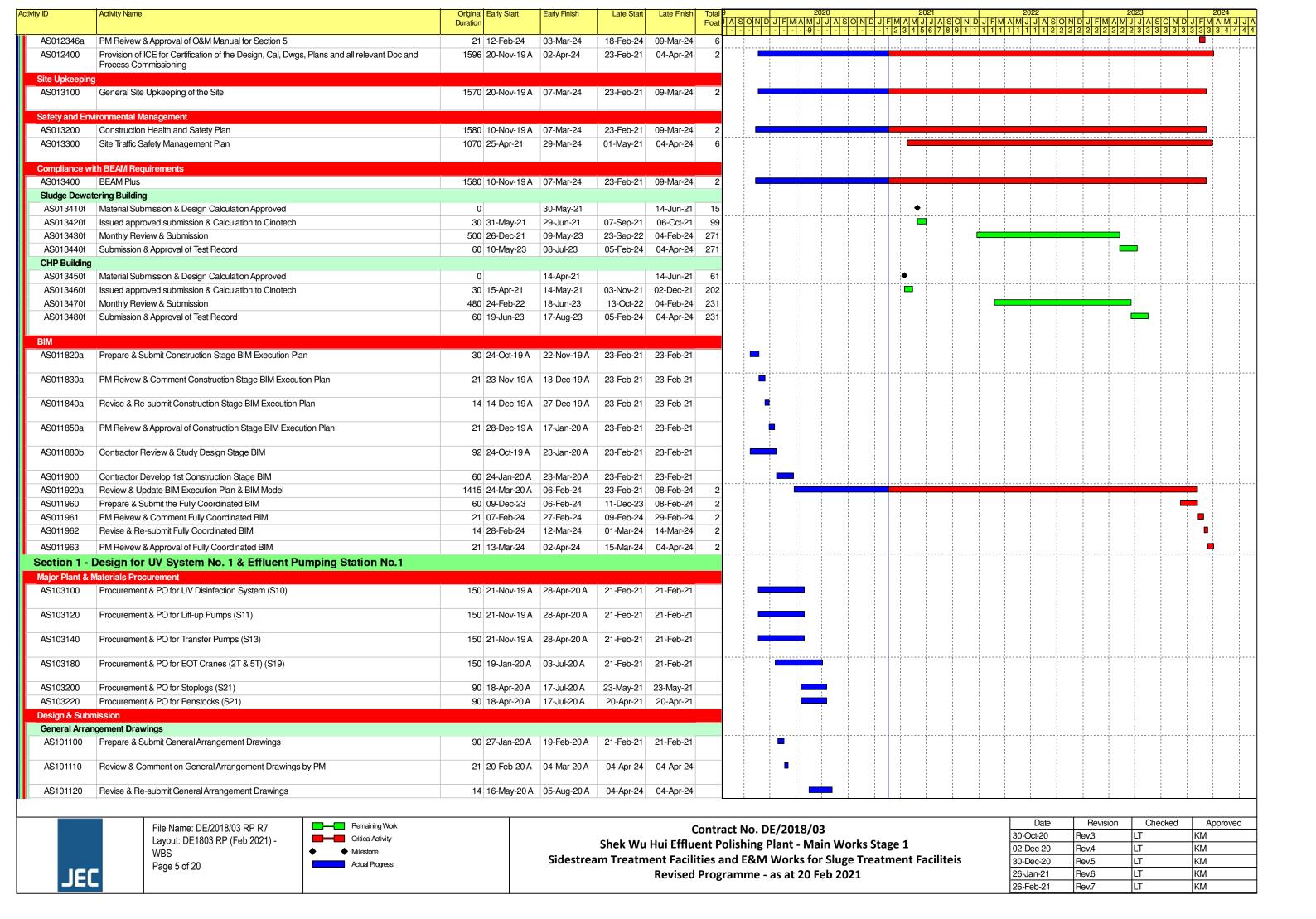
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02-Dec-20	Rev.4	LT	KM
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM

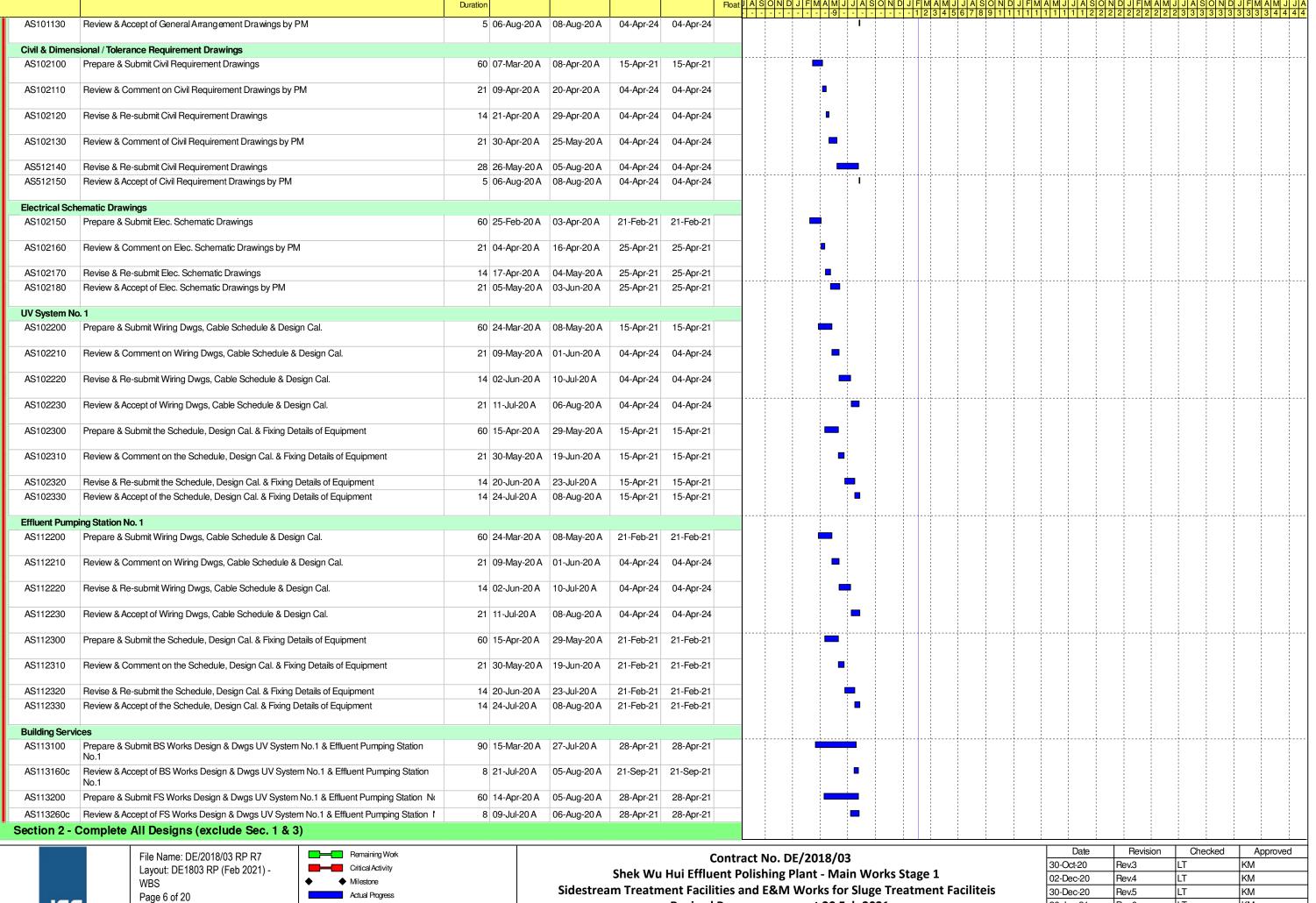


Activity Name

Actual Progress

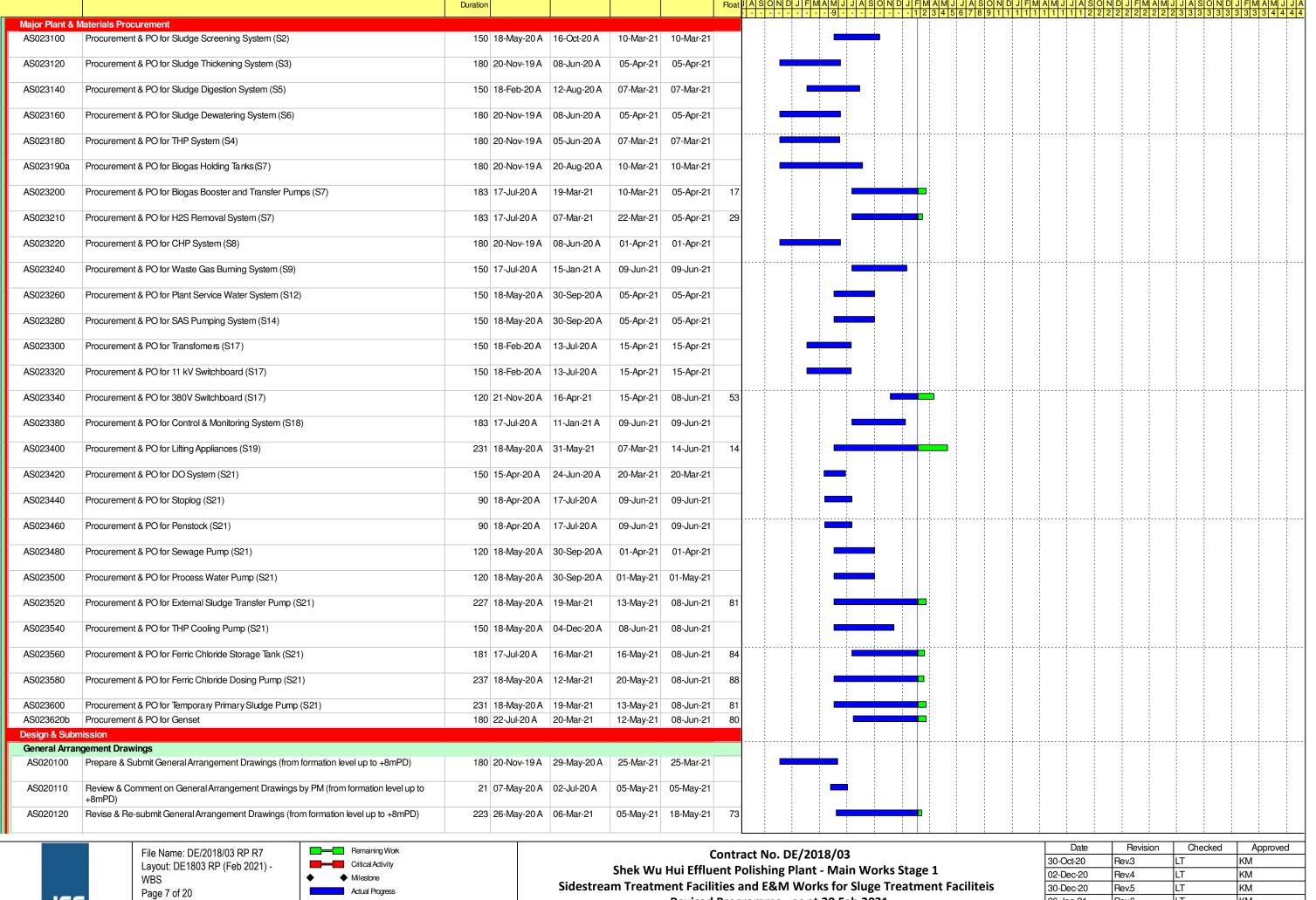
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30-Oct-20	Rev.3	LT	KM					
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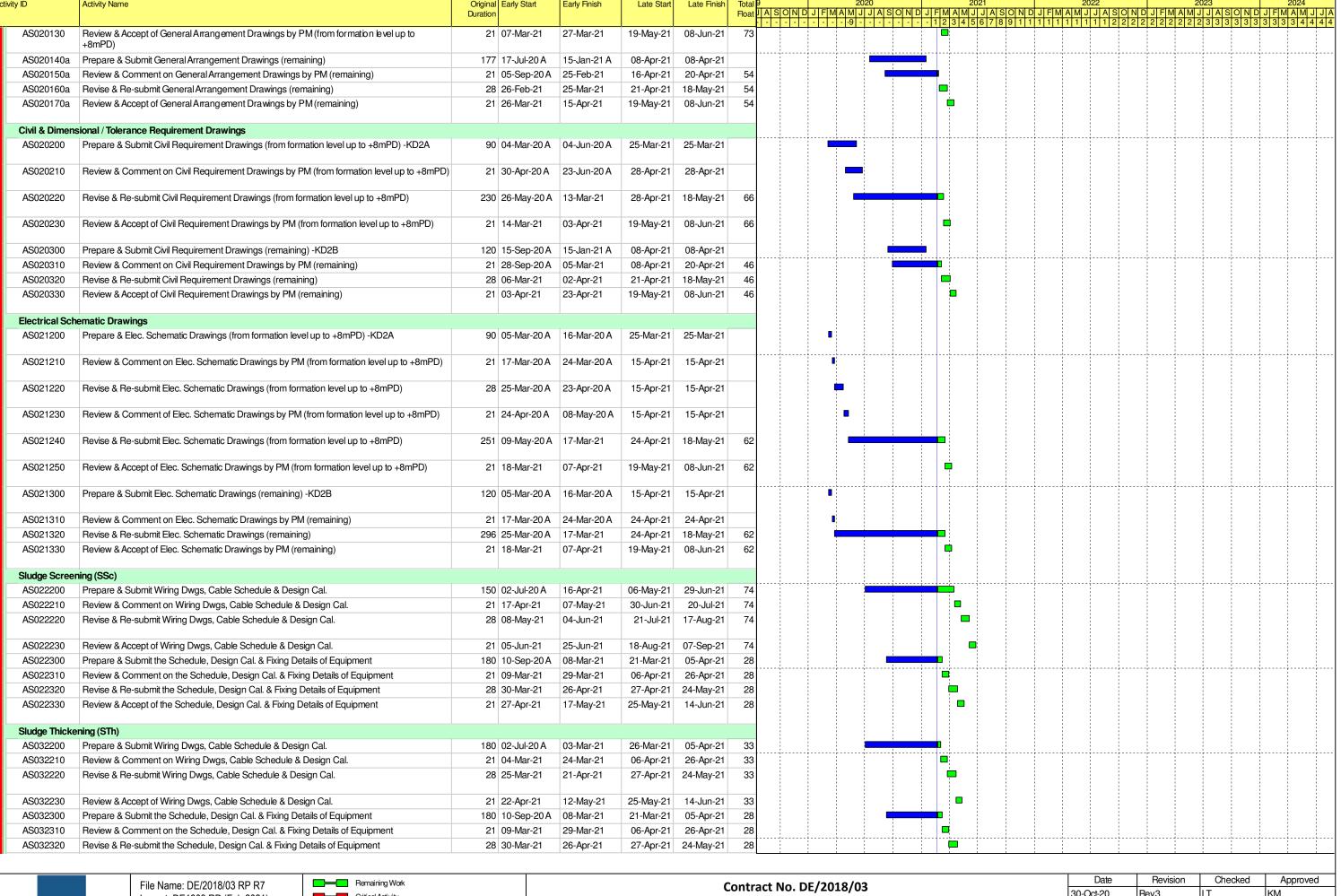


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Date	Revision	Checked	Approved
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02-Dec-20	Rev.4	LT	KM
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM



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26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM



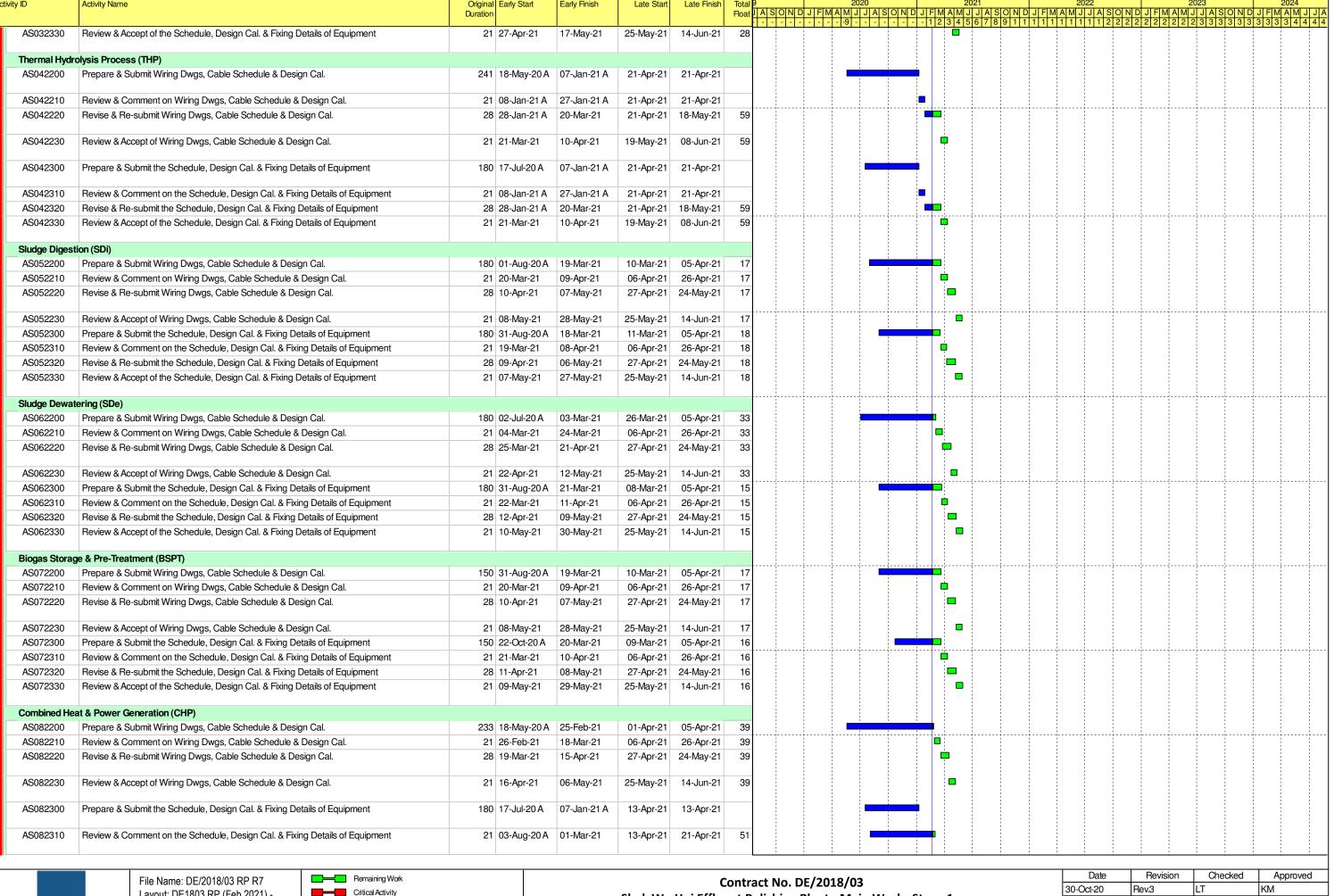


File Name: DE/2018/03 RP R7 Layout: DE1803 RP (Feb 2021) -WBS Page 8 of 20



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

Date	Revision	Checked	Approved
30-Oct-20	Rev.3	LT	KM
02-Dec-20	Rev.4	LT	KM
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM





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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

Date	Revision	Checked	Approved
30-Oct-20	Rev.3	LT	KM
02-Dec-20	Rev.4	LT	KM
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM

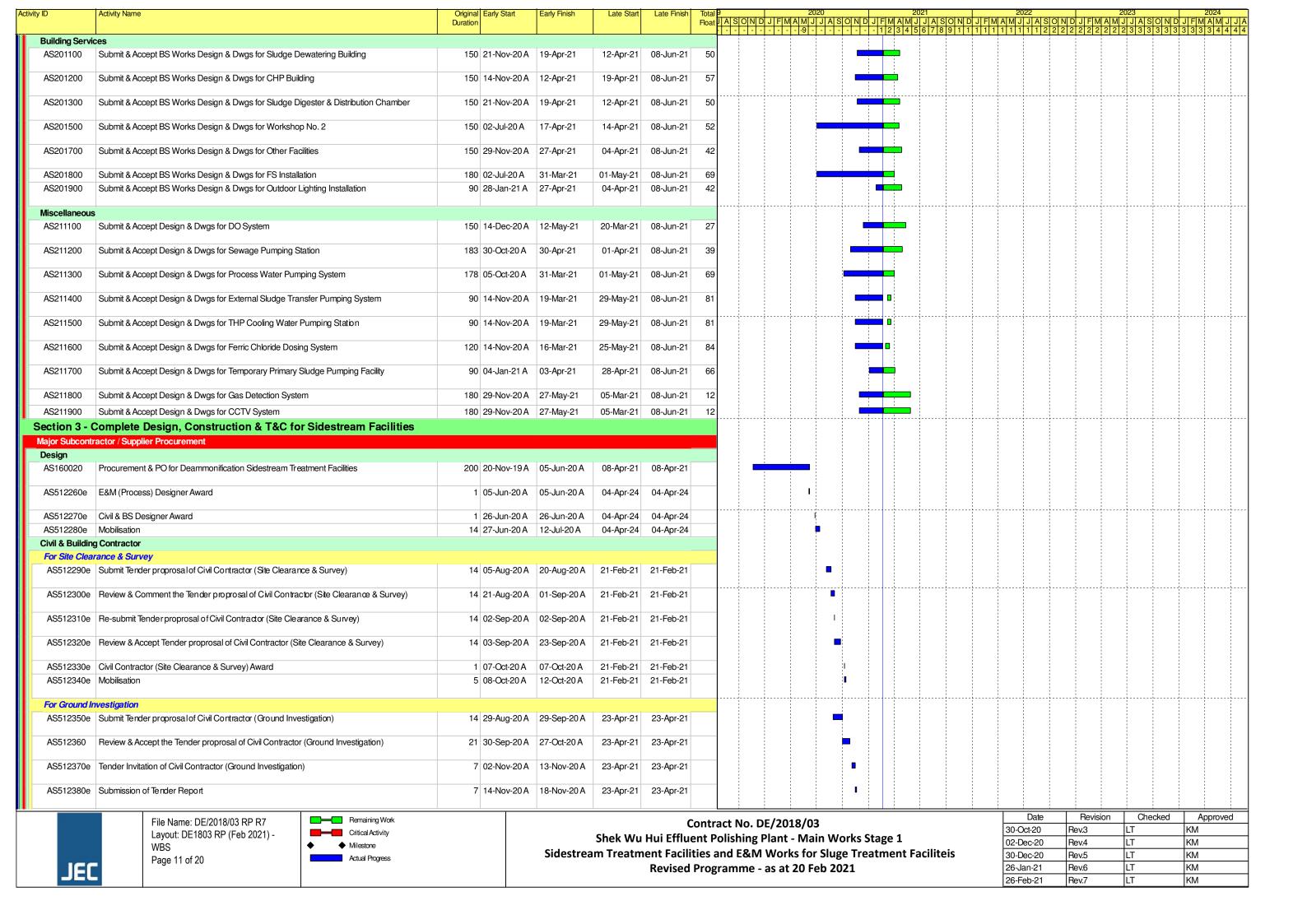
Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Tota Floa	JASONDJ	2020 J F M A M J V	JASOND	J F M A N	2021 M J J A	S O N D	J F M A M	2022 J J A S	O N D J	FMAM	2023 J J A S O N D 2 3 3 3 3 3 3	2024 J F M A M	J J A
AS082320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28 12-Aug-20 A	24-Mar-21	22-Apr-21	14-May-21	51		1 1 1 1 1 1			100111		<u> </u>	<u> </u>	-1-1-1-	<u> </u>	200000000		
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	ī												
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	2			_									
AS092210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 05-Mar-21	25-Mar-21	06-Apr-21	26-Apr-21	32	2												
AS092220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 26-Mar-21	22-Apr-21	27-Apr-21	24-May-21	32	2												
AS092230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 23-Apr-21	13-May-21	25-May-21	14-Jun-21	32	2												
AS092300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	90 29-Nov-20 A	18-Mar-21	11-Mar-21	05-Apr-21	18	3												
AS092310	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	3			ļ 📮									
AS092320	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	3			_									
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	3												
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	2			_									
AS122210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 05-Mar-21	25-Mar-21	06-Apr-21	26-Apr-21	32	2												
AS122220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 26-Mar-21	22-Apr-21	27-Apr-21	24-May-21	32	2			<b>-</b>						1		 	
AS122230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 23-Apr-21	13-May-21	25-May-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	- : :			-									
AS122320 AS122330	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment  Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	28 04-Apr-21 21 02-May-21	01-May-21 22-May-21	· ·	24-May-21 14-Jun-21	23	- : :												
Surplue Activ	vated 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	5												
AS142210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 22-Mar-21	11-Apr-21	06-Apr-21	· ·	1.5	<u> </u>												
AS142220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 12-Apr-21	09-May-21		24-May-21	15	5			_									
AS142230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 10-May-21	30-May-21	25-May-21	14-Jun-21	15	5				•								
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			24-May-21	65	5												
AS142330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 21-Mar-21	10-Apr-21	· ·	14-Jun-21	65	- ! !			·	1								
Control and N	Monitoring System																		
AS182200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	90 30-Oct-20 A	19-Mar-21	10-Mar-21	05-Apr-21	17	7												
AS182210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 20-Mar-21	09-Apr-21	06-Apr-21		17	7			i									
AS182220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 10-Apr-21	07-May-21	27-Apr-21		17	7												
AS182230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 08-May-21	28-May-21	25-May-21	14-Jun-21	17	7				•		! ! ! ! ! !		-	-			
AS182300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	75 14-Dec-20 A	18-Mar-21	11-Mar-21		18	8						1 1 1 1 1 1		-	1			
AS182310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 19-Mar-21	08-Apr-21	06-Apr-21		18	8						}					<del> </del>	
AS182320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28 09-Apr-21	06-May-21	27-Apr-21		18	8			_									
AS182330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 07-May-21	27-May-21	25-May-21	-	18	3												
Lifting Applia	nces																	 	
AS192200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	198 17-Jul-20 A	21-Mar-21	15-Mar-21	12-Apr-21	22	2		<u> </u>										
AS192210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 22-Mar-21	11-Apr-21		03-May-21	22											;	<del> </del>	
AS192220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	21 12-Apr-21	02-May-21	· ·	24-May-21	22	2			-									
AS192230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 03-May-21	23-May-21	25-May-21	14-Jun-21	22	2			•									
AS192300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	93 30-Oct-20 A	02-Mar-21	03-Apr-21		41	ī											į	
AS192310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 03-Mar-21	23-Mar-21		03-May-21	41	ī											İ	
AS192320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	21 24-Mar-21	13-Apr-21	04-May-21	-	41	1			<del> </del>									
AS192330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 14-Apr-21	04-May-21	-	14-Jun-21	41	ī			•									
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	Contract No. DE/2016/05				30	-Oct-20	Rev		LT	KM	$\overline{}$								
	Layout: DE1803 RP (Feb 2021) -						_			_				-Dec-20	Rev		LT	KM	
-	Page 10 of 20 Actual Progress		Sidestrea	m Treatn	nent Facili	ties	and E&M V	Norks for	Sluge Trea	atment	Facilit	teis	30	-Dec-20	Rev	<sub>.</sub> .5	LT	KM	

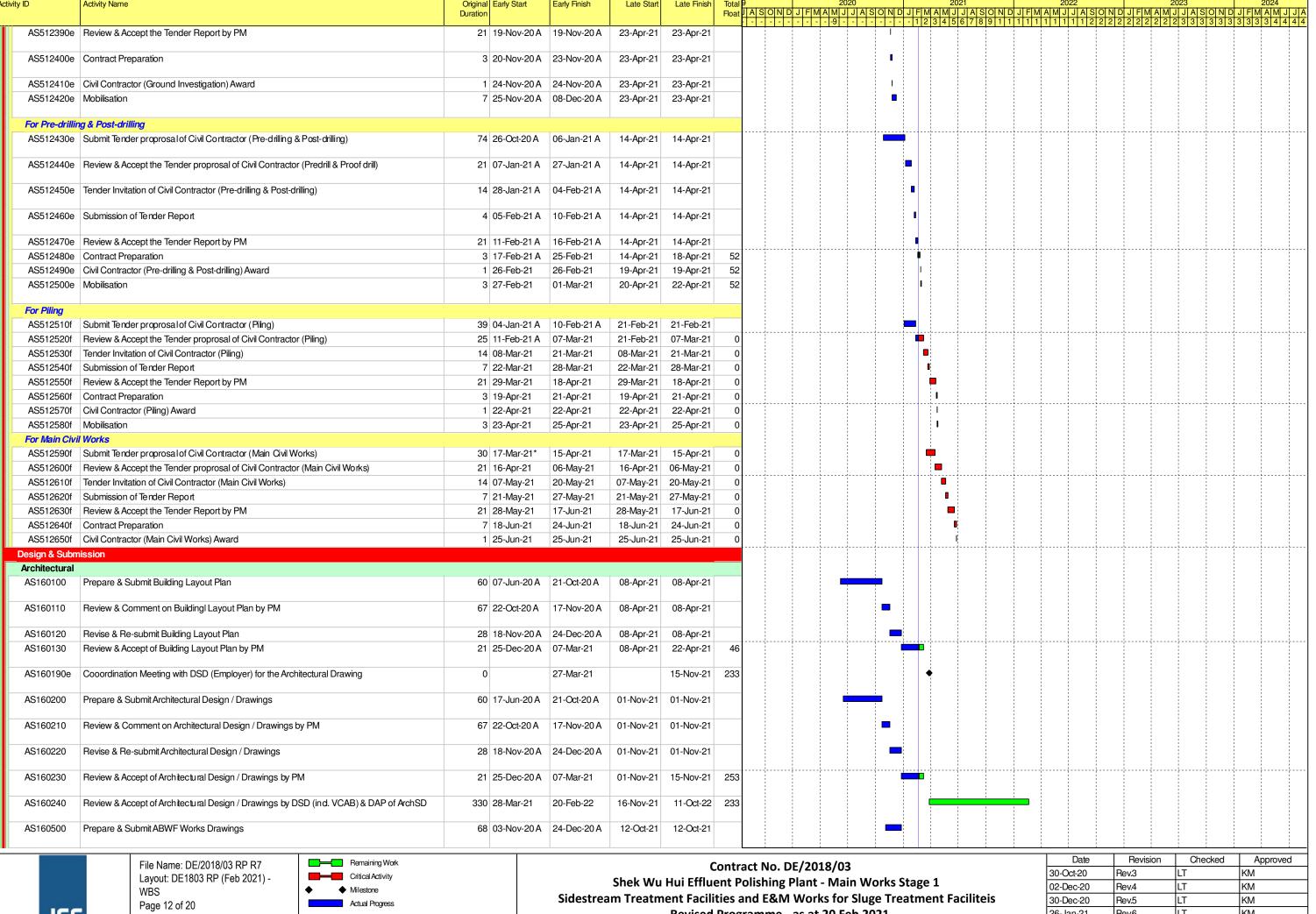
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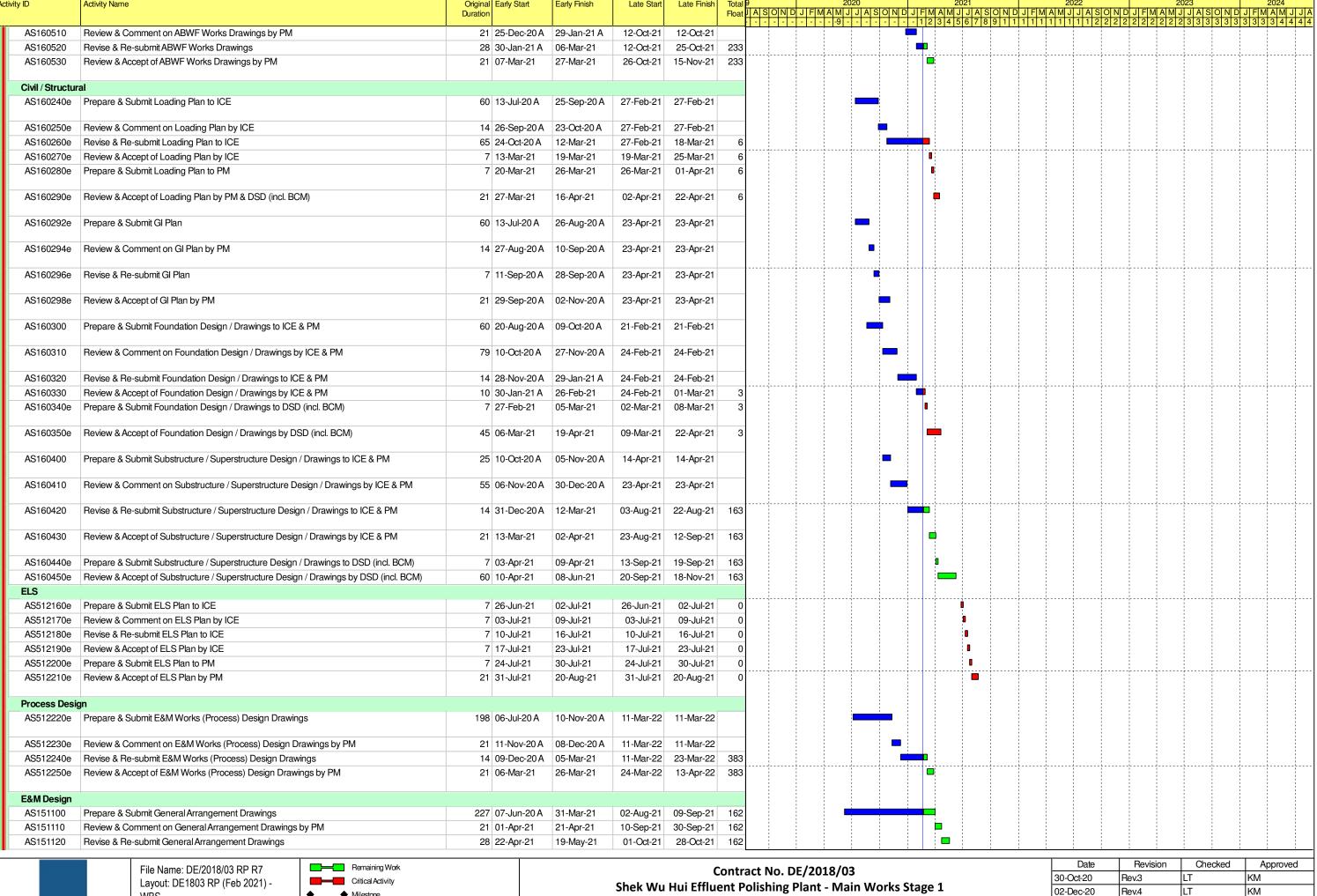
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Date	Revision	Checked	Approved
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02-Dec-20	Rev.4	LT	KM
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM





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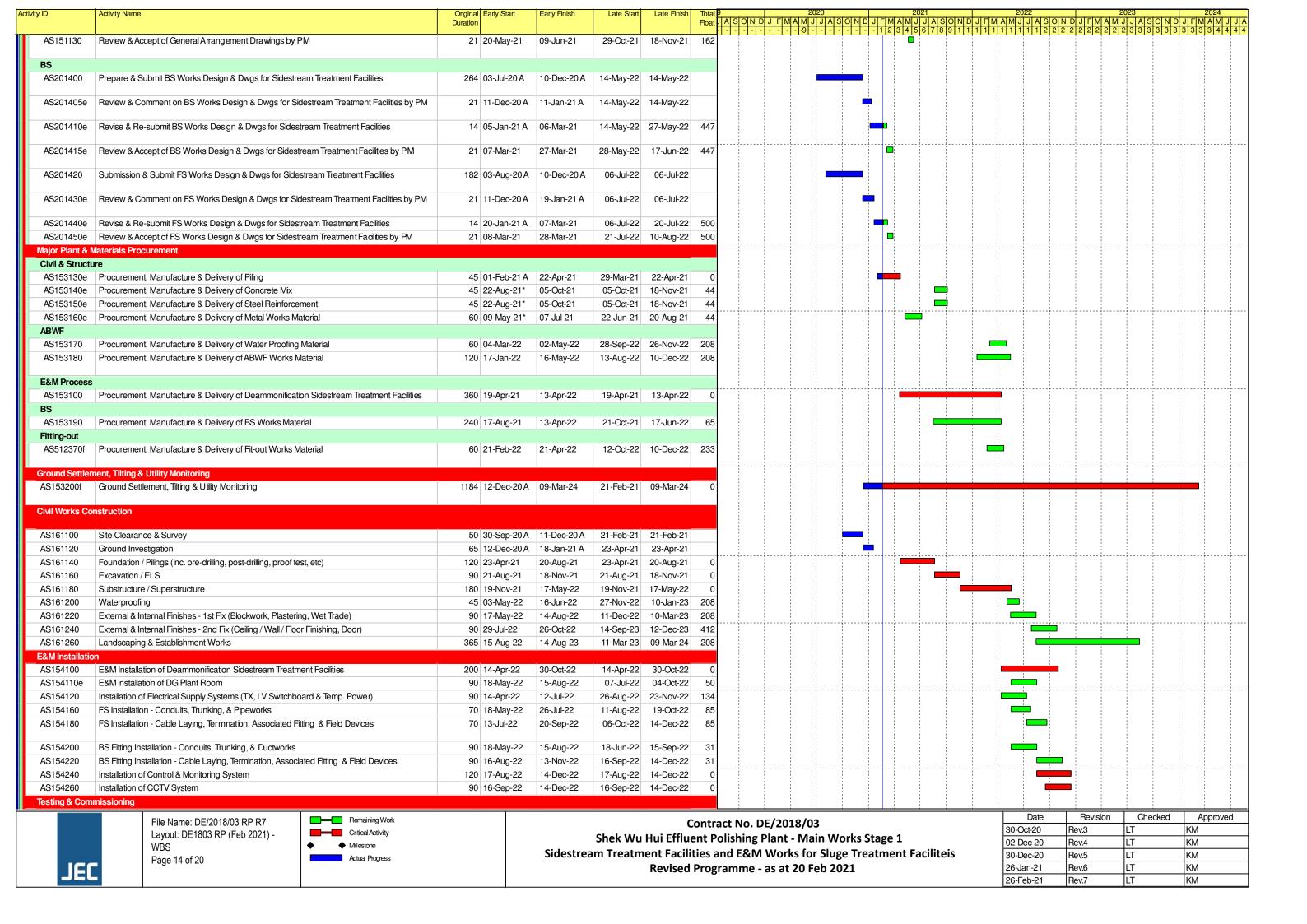


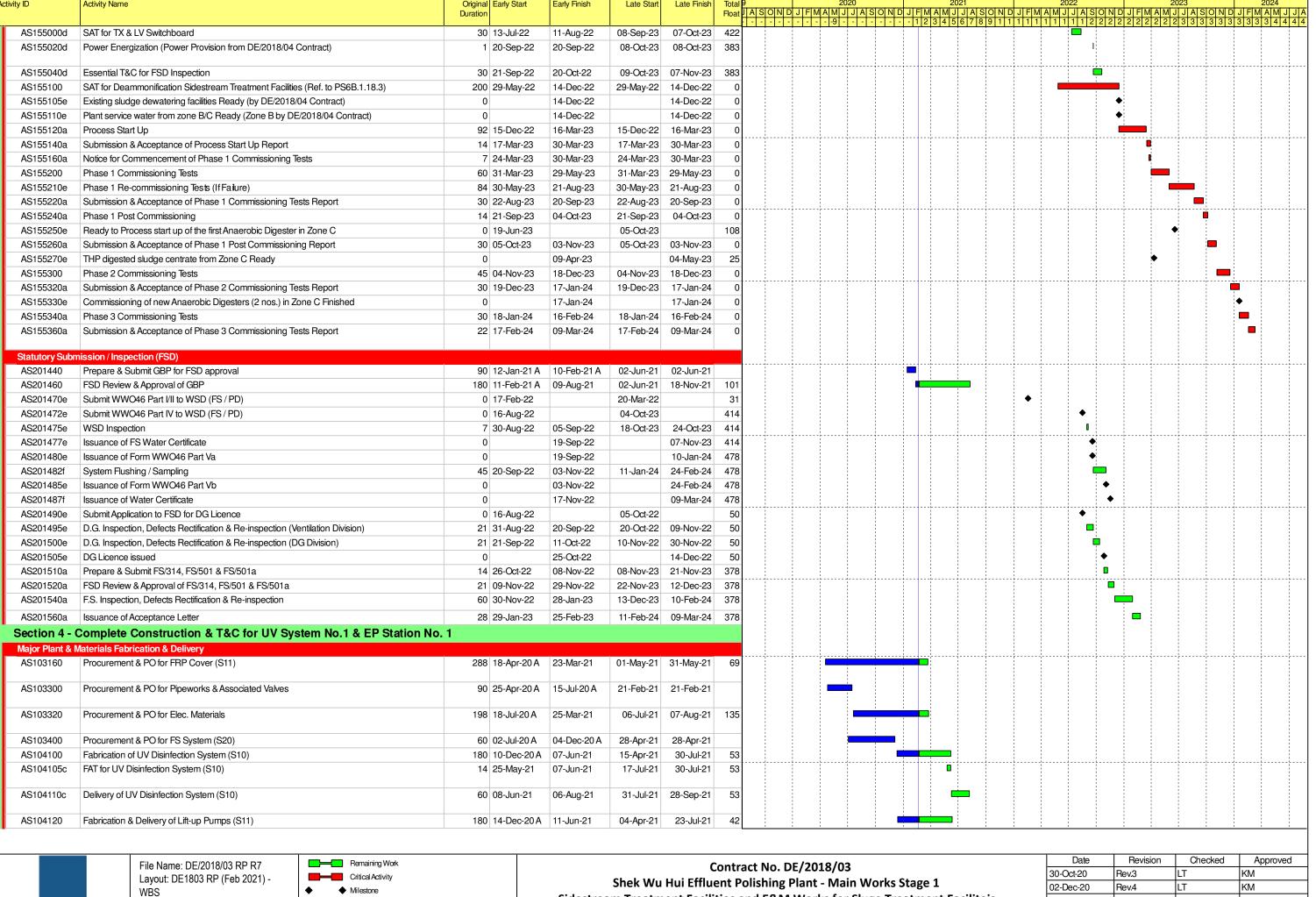
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 Milestone Actual Progress

Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis Revised Programme - as at 20 Feb 2021

Date	Revision	Checked	Approved
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26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM





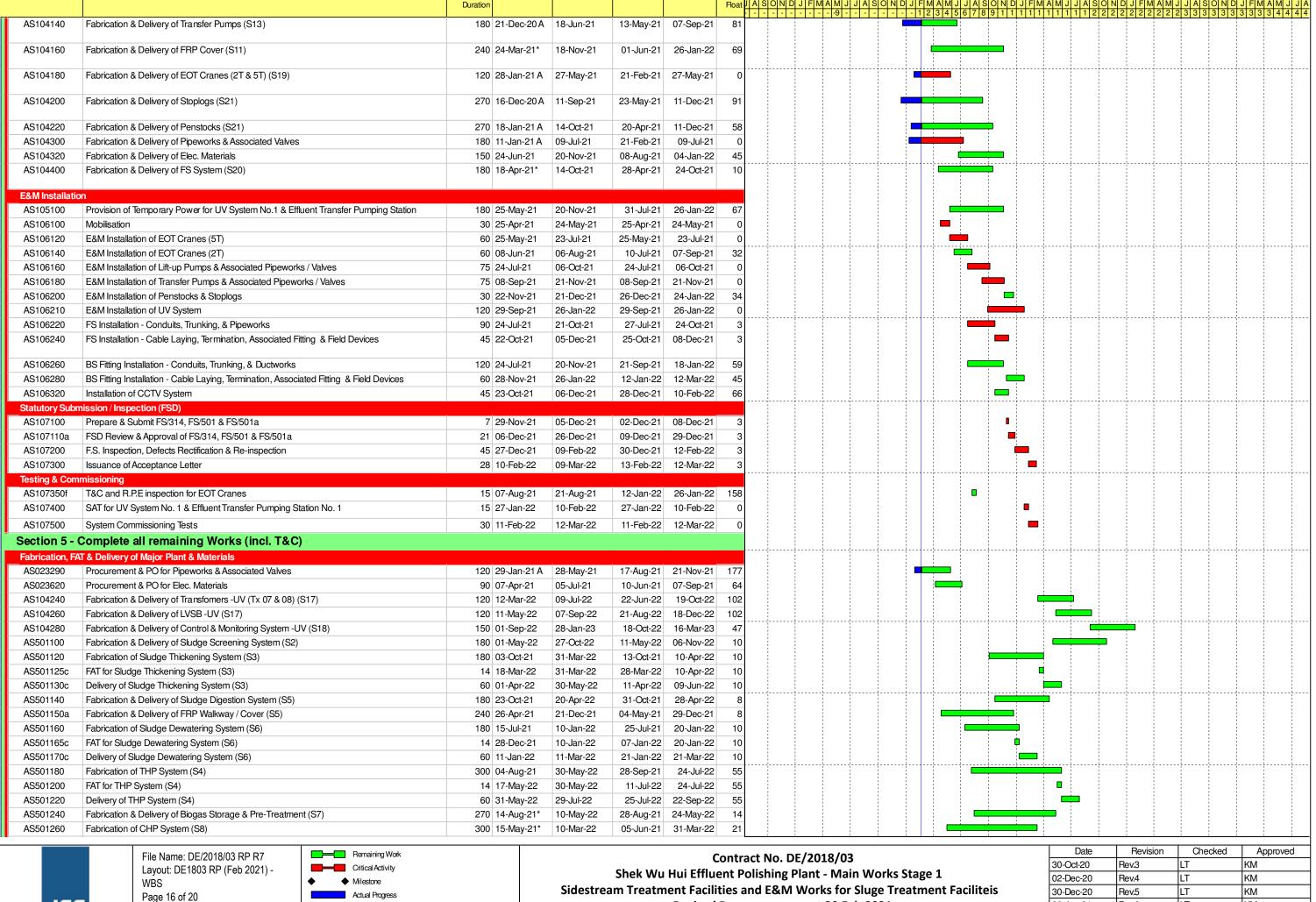


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Actual Progress

Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis Revised Programme - as at 20 Feb 2021

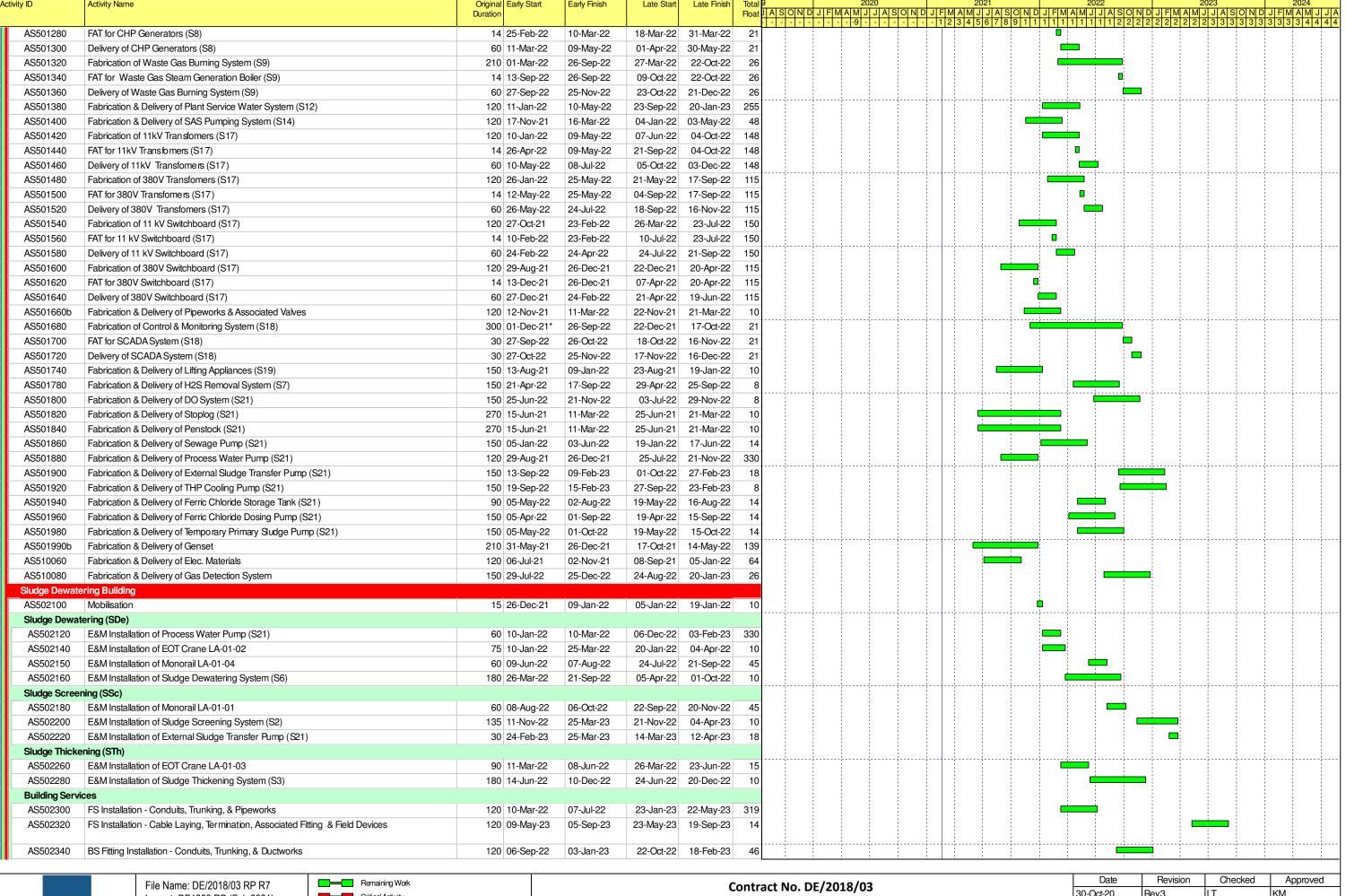
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26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM



Activity Name

Actual Progress

Date	Revision	Checked	Approved
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02-Dec-20	Rev.4	LT	KM
30-Dec-20	Rev.5	LT	KM
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26-Feb-21	Rev7	ΙΤ	KM



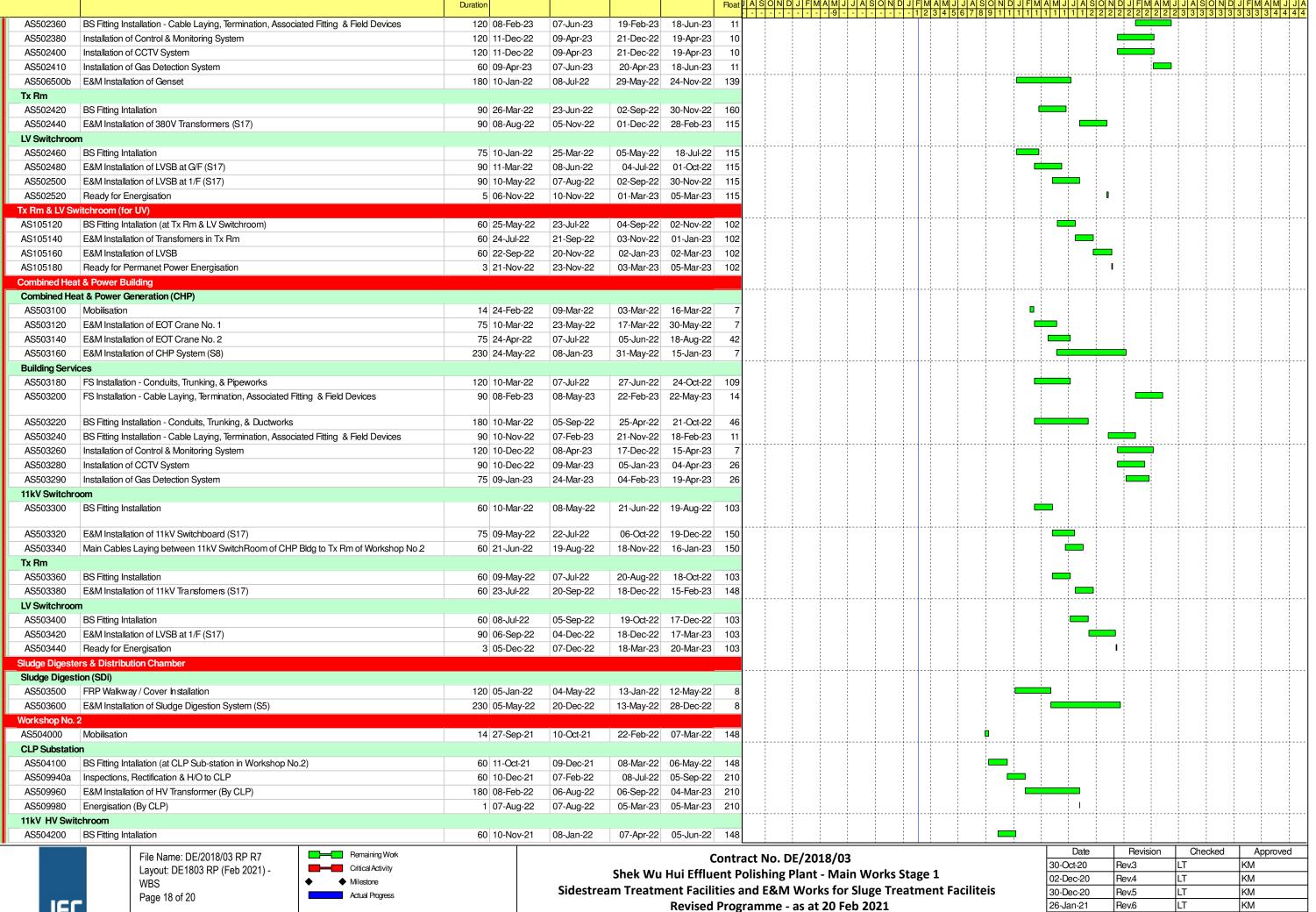


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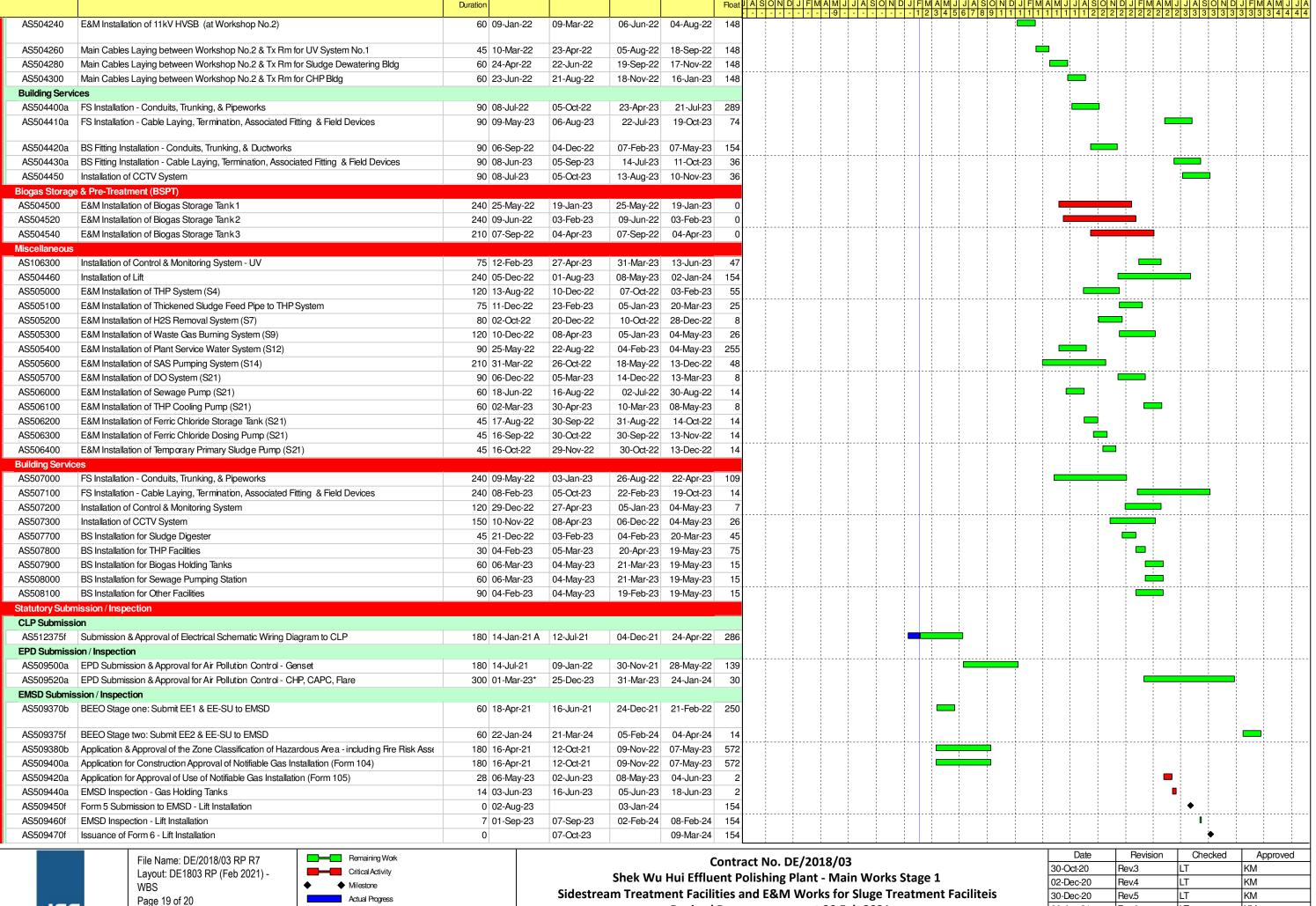
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis
Revised Programme - as at 20 Feb 2021

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30-Oct-20	Rev.3	LT	KM
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26-Feb-21	Rev.7	LT	KM



Activity Name

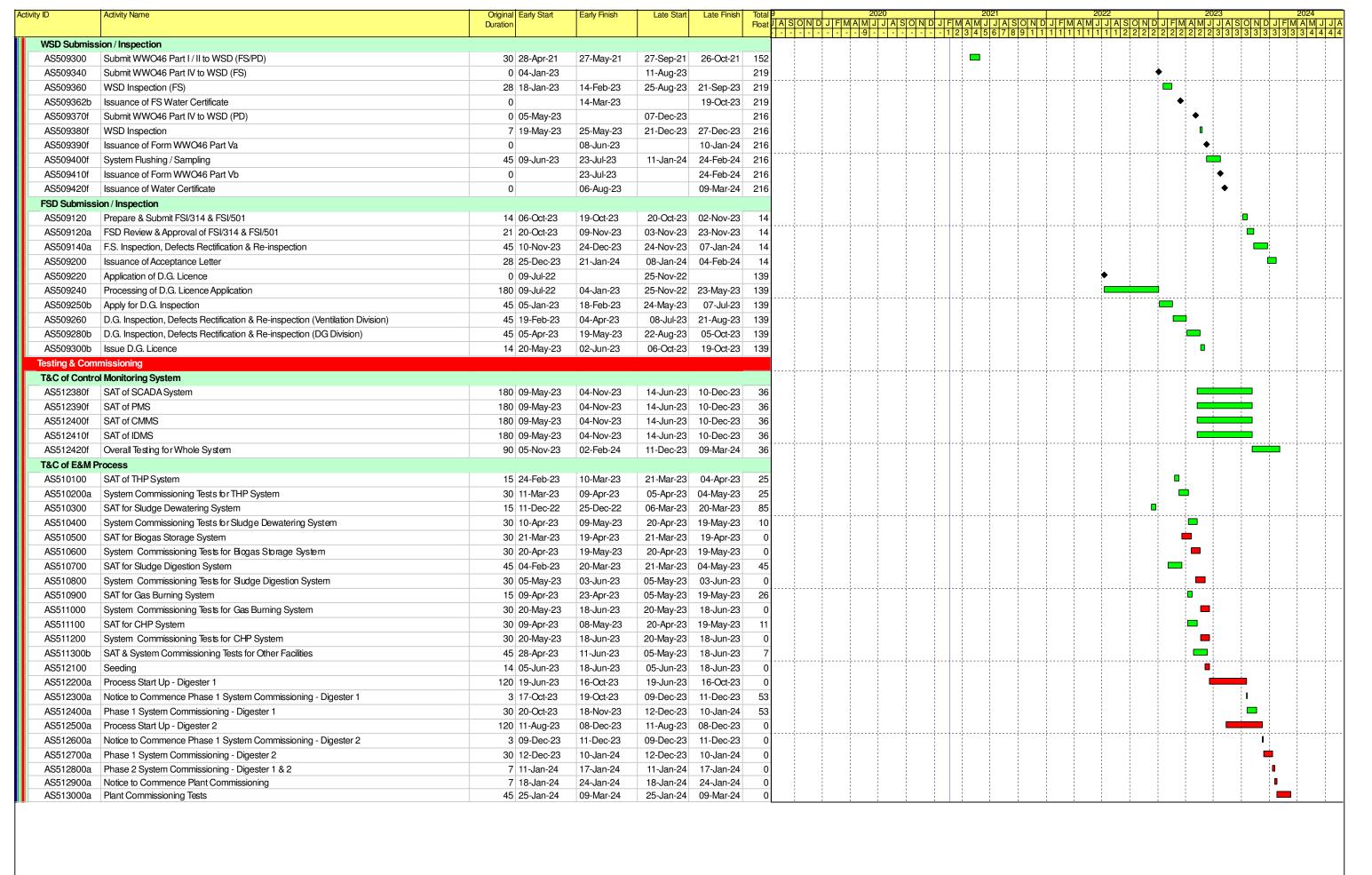
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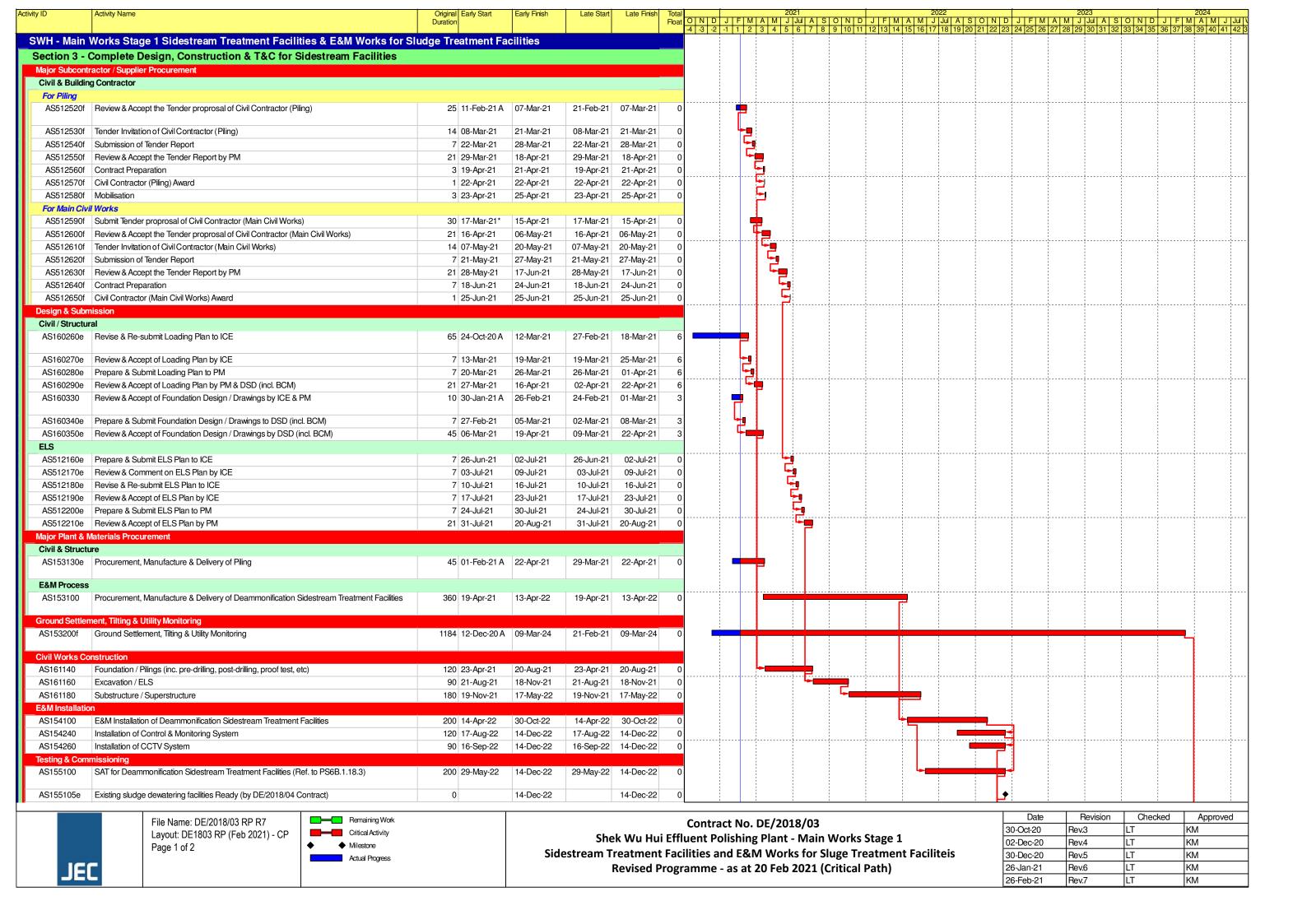


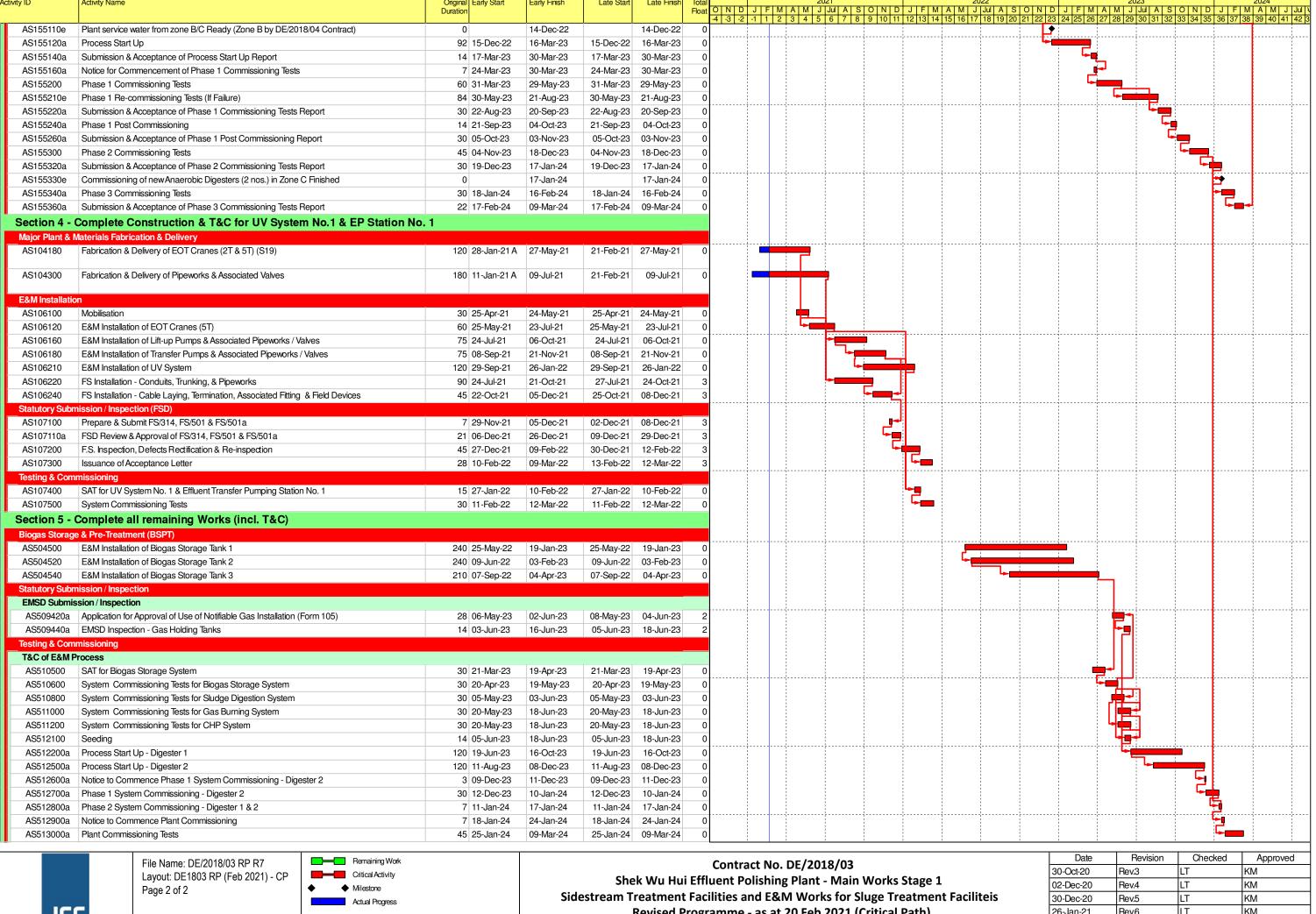
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Contract No. DE/2018/03
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis
Revised Programme - as at 20 Feb 2021

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26-Feb-21	Rev.7	LT	KM



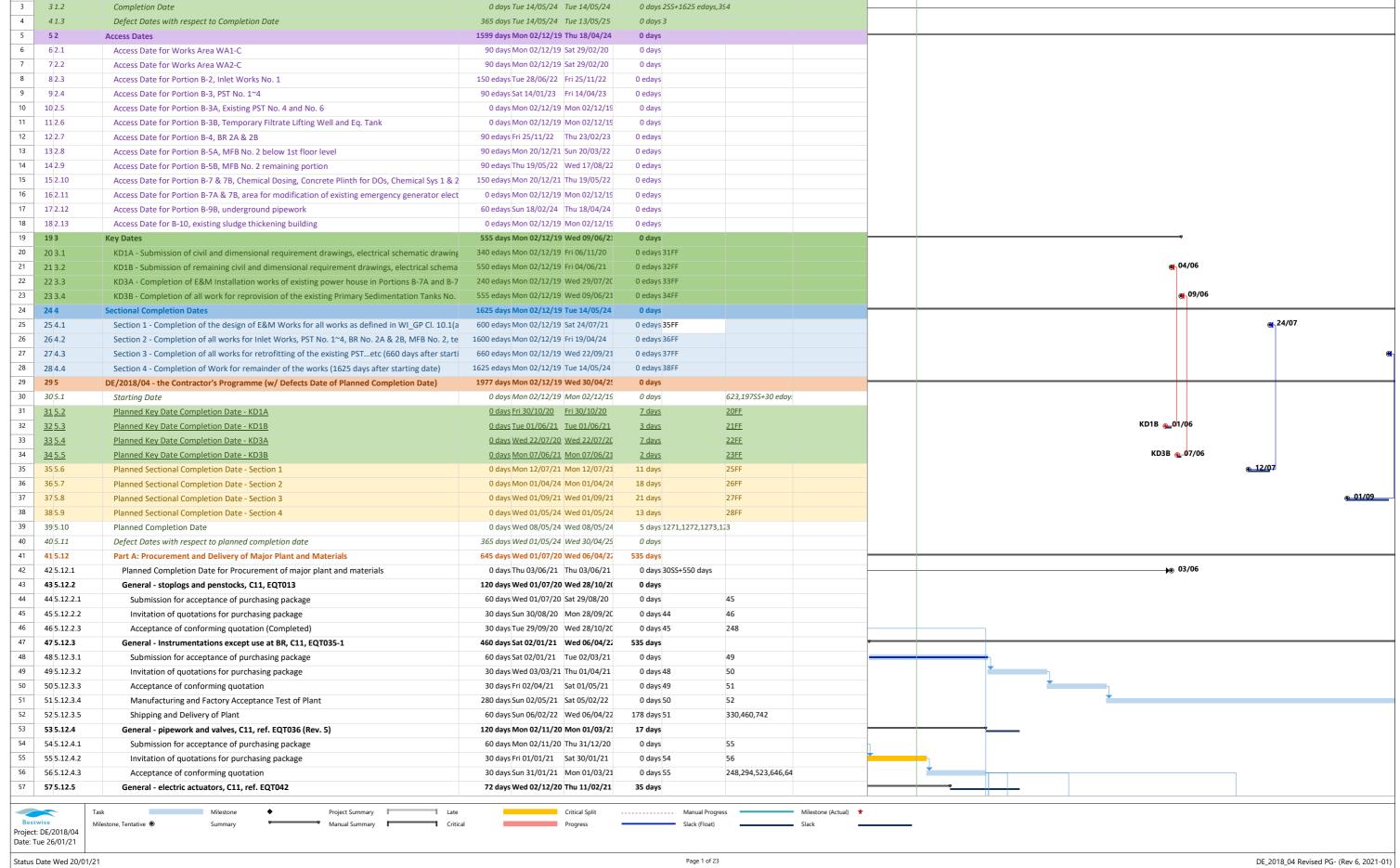


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Revised Programme - as at 20 Feb 2021 (Critical Path)

Date	Revision	Checked	Approved
30-Oct-20	Rev.3	LT	KM
02-Dec-20	Rev.4	LT	KM
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM

5	Drainage Services I	Department  via diamonstrative Region	Shek Wu Hui Effluent l	Proposed Work Program Polishing Plant - Main Works Stag	me for DE/2018/04 ge 1 E&M Works for Sewage Treati	tment Facilities				AECON
ID	ID WBS		Duration Start Finish	Float Time Predecessors	Successors Resource N	Names 2021 Half 1, 2021		1	Half 2, 2021	
1	11	DE/2018/04 - Contract Master Programme	Start and Finish 1990 days Mon 02/12/19 Tue 13/05/2	5 0 days			J M	M M		J
2	2 1.1	Starting Date	0 days Mon 02/12/19 Mon 02/12/2	9.5 O days	3SS+1625 edays,623					
3	3 1.2	Completion Date	0 days Tue 14/05/24 Tue 14/05/2	0 days 2SS+1625 edays	s,354					
4	4 1.3	Defect Dates with respect to Completion Date	365 days Tue 14/05/24 Tue 13/05/2	5 0 days 3						
5	5 2	Access Dates	1599 days Mon 02/12/19 Thu 18/04/2	4 0 days						
6	6 2.1	Access Date for Works Area WA1-C	90 days Mon 02/12/19 Sat 29/02/20	0 days						
7	7 2.2	Access Date for Works Area WA2-C	90 days Mon 02/12/19 Sat 29/02/20	0 days						
8	8 2.3	Access Date for Portion B-2, Inlet Works No. 1	150 edays Tue 28/06/22 Fri 25/11/22	0 edays						
9	9 2.4	Access Date for Portion B-3, PST No. 1~4	90 edays Sat 14/01/23 Fri 14/04/23	0 edays						
10	10 2.5	Access Date for Portion B-3A, Existing PST No. 4 and No. 6	0 days Mon 02/12/19 Mon 02/12/2	.s 0 days						
11	11 2.6	Access Date for Portion B-3B, Temporary Filtrate Lifting Well and Eq. Tank	0 days Mon 02/12/19 Mon 02/12/2	.s 0 days						
12	12 2.7	Access Date for Portion B-4, BR 2A & 2B	90 edays Fri 25/11/22 Thu 23/02/2	0 edays						
13	13 2.8	Access Date for Portion B-5A, MFB No. 2 below 1st floor level	90 edays Mon 20/12/21 Sun 20/03/2	2 0 edays						
14	14 2.9	Access Date for Portion B-5B, MFB No. 2 remaining portion	90 edays Thu 19/05/22 Wed 17/08/2	2 0 edays						
15	15 2.10	Access Date for Portion B-7 & 7B, Chemical Dosing, Concrete Plinth for DOs, Chemical Sys 1 & 2	150 edays Mon 20/12/21 Thu 19/05/2	2 0 edays						
16	16 2.11	Access Date for Portion B-7A & 7B, area for modification of existing emergency generator elect	0 edays Mon 02/12/19 Mon 02/12/2	.9 0 edays						
17	17 2.12	Access Date for Portion B-9B, underground pipework	60 edays Sun 18/02/24 Thu 18/04/2	1 0 edays						
18	18 2.13	Access Date for B-10, existing sludge thickening building	0 edays Mon 02/12/19 Mon 02/12/2	.9 0 edays						
19	193	Key Dates	555 days Mon 02/12/19 Wed 09/06/	21 0 days						
20	20 3.1	KD1A - Submission of civil and dimensional requirement drawings, electrical schematic drawing	340 edays Mon 02/12/19 Fri 06/11/20	0 edays 31FF						
21	21 3.2	KD1B - Submission of remaining civil and dimensional requirement drawings, electrical schema	550 edays Mon 02/12/19 Fri 04/06/21	0 edays 32FF				<b>6</b> 04	/06	
22	22 3.3	KD3A - Completion of E&M Installation works of existing power house in Portions B-7A and B-7	240 edays Mon 02/12/19 Wed 29/07/2	0 edays 33FF						
23	23 3.4	KD3B - Completion of all work for reprovision of the existing Primary Sedimentation Tanks No.	555 edays Mon 02/12/19 Wed 09/06/2	1 0 edays 34FF				©	09/06	
24	24 4	Sectional Completion Dates	1625 days Mon 02/12/19 Tue 14/05/2							
25	25 4.1	Section 1 - Completion of the design of E&M Works for all works as defined in WI GP Cl. 10.1(a	600 edays Mon 02/12/19 Sat 24/07/21						<b>©</b>	24/07
26	26 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							
27	27 4.3	Section 3 - Completion of all works for retrofitting of the existing PSTetc (660 days after starti	660 edays Mon 02/12/19 Wed 22/09/2							
28	28 4.4	Section 4 - Completion of Work for remainder of the works (1625 days after starting date)	1625 edays Mon 02/12/19 Tue 14/05/2							
29	29 5	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						
30	30 5.1	Starting Date	0 days Mon 02/12/19 Mon 02/12/2		623,197SS+30 eday:					
31	<u>31 5.2</u>	Planned Key Date Completion Date - KD1A	0 days Fri 30/10/20 Fri 30/10/20	7 days	20FF					
32	32 5.3	Planned Key Date Completion Date - KD1B	0 days Tue 01/06/21 Tue 01/06/2		21FF			KD1B <u>€</u> 01/	06	
33	33 5.4	Planned Key Date Completion Date - KD3A	0 days Wed 22/07/20 Wed 22/07/2		22FF					
34	<u>34 5.5</u>	Planned Key Date Completion Date - KD3B	0 days Mon 07/06/21 Mon 07/06/2		23FF			KD3B	7/06	
35	35 5.6	Planned Sectional Completion Date - Section 1	0 days Mon 12/07/21 Mon 12/07/2		25FF				<u>a 12/0</u> 1	d
36	36 5.7	Planned Sectional Completion Date - Section 2	0 days Mon 01/04/24 Mon 01/04/2		26FF					
37	37 5.8	Planned Sectional Completion Date - Section 3	0 days Wed 01/09/21 Wed 01/09/2		27FF					<u>01/09</u>
38	38 5.9	Planned Sectional Completion Date - Section 4	0 days Wed 01/05/24 Wed 01/05/2		28FF					
39	39 5.10	Planned Completion Date	0 days Wed 08/05/24 Wed 08/05/2							
40	40 5.11	Defect Dates with respect to planned completion date	365 days Wed 01/05/24 Wed 30/04/2							
41	41 5.12	Part A: Procurement and Delivery of Major Plant and Materials	645 days Wed 01/07/20 Wed 06/04/							
42	42 5.12.1	Planned Completion Date for Procurement of major plant and materials	0 days Thu 03/06/21 Thu 03/06/2					<b>→</b> 03	/06	
43	43 5.12.2	General - stoplogs and penstocks, C11, EQT013	120 days Wed 01/07/20 Wed 28/10/							
44	44 5.12.2.1	Submission for acceptance of purchasing package	60 days Wed 01/07/20 Sat 29/08/20		45					
45	45 5.12.2.2	Invitation of quotations for purchasing package	30 days Sun 30/08/20 Mon 28/09/2		46					
46	46 5.12.2.3	Acceptance of conforming quotation (Completed)	30 days Tue 29/09/20 Wed 28/10/2		248					
47	47 5.12.3	General - Instrumentations except use at BR, C11, EQT035-1	460 days Sat 02/01/21 Wed 06/04/			•				
48	48 5.12.3.1	Submission for acceptance of purchasing package	60 days Sat 02/01/21 Tue 02/03/2		49					
49	49 5.12.3.2	Invitation of quotations for purchasing package	30 days Wed 03/03/21 Thu 01/04/2		50		<b>—</b>			
50	50 5.12.3.3	Acceptance of conforming quotation	30 days Fri 02/04/21 Sat 01/05/21		51					
	51 5.12.3.4	Manufacturing and Factory Acceptance Test of Plant	280 days Sun 02/05/21 Sat 05/02/22		52			+		
51			-00 00,00011 02,00,21 301 03,02/22	o auyo oo			The state of the s			



Drainage Services Department The Government of the Hong Kong Special Administrative Region				_	_	_	
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Date: Tue 26/01/21

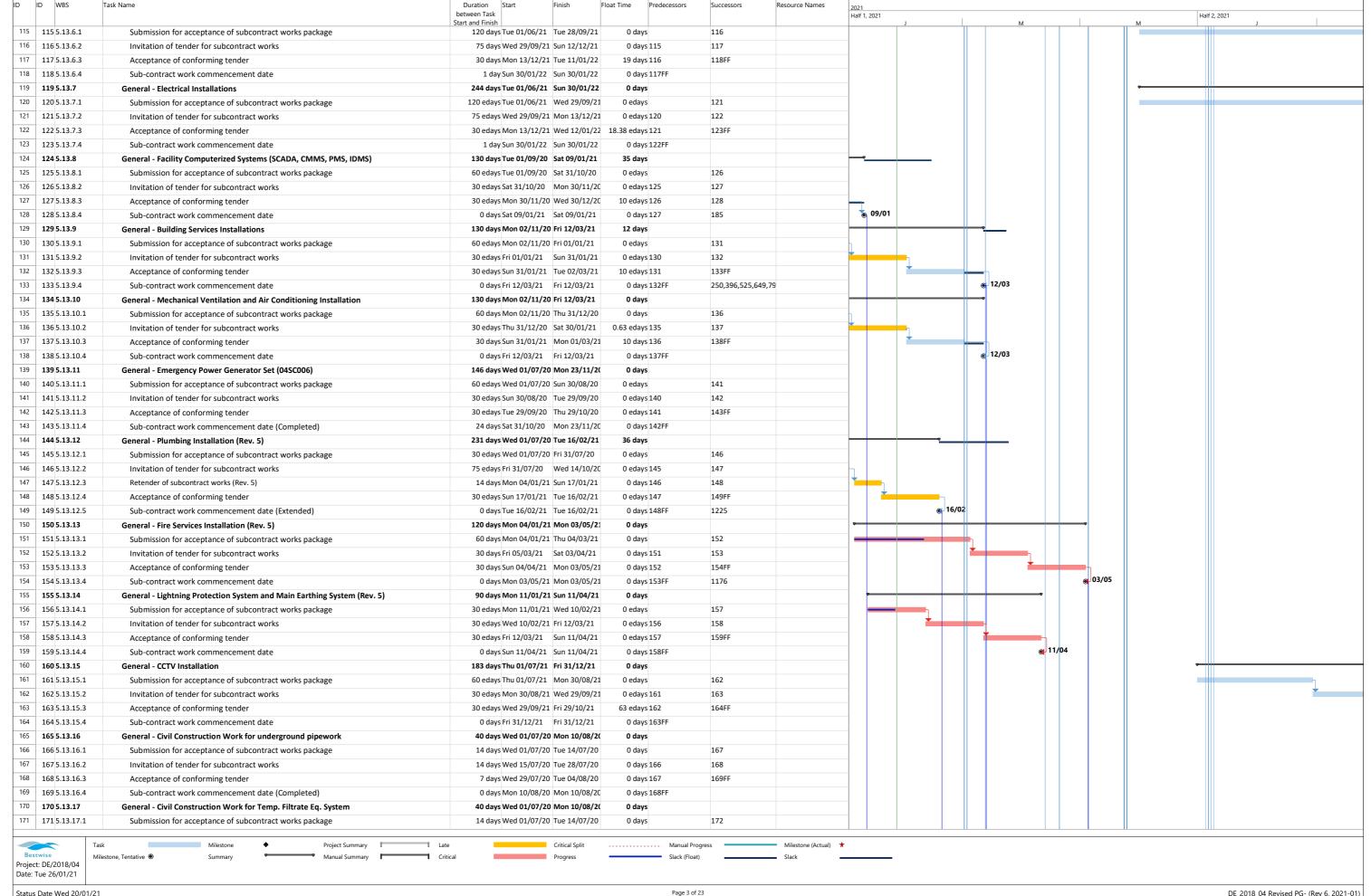
Proposed Work Programme for DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

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Duration Start Float Time between Task Half 1, 2021 Half 2, 2021 tart and Finish 58 30 days Wed 02/12/20 Thu 31/12/20 58 5 12 5 1 Submission for acceptance of purchasing package 0 days 59 59 59 5.12.5.2 Invitation of quotations for purchasing package 21 days Fri 01/01/21 Thu 21/01/21 0 days 58 Acceptance of conforming quotation 60 60 5.12.5.3 21 days Fri 22/01/21 Thu 11/02/21 18 days 59 248,294,523,646,64 61 61 5.12.6 General - HV Switchboards, C9, ref. EQT031 (Rev. 5) 105 days Mon 04/01/21 Sun 18/04/21 25 days 62 45 days Mon 04/01/21 Wed 17/02/21 62 5.12.6.1 Submission for acceptance of purchasing package 0 days 63 63 5.12.6.2 30 days Thu 18/02/21 Fri 19/03/21 0 days 62 Invitation of quotations for purchasing package 64 651,252 64 5.12.6.3 30 days Sat 20/03/21 Sun 18/04/21 Acceptance of conforming quotation 0 days 63 65 65 5.12.7 General - LV Switchboards, C9, ref. EQT033 (Rev. 5) 120 days Mon 04/01/21 Mon 03/05/21 10 days 66 66 5.12.7.1 Submission for acceptance of purchasing package 60 days Mon 04/01/21 Thu 04/03/21 0 days 67 67 67 5.12.7.2 Invitation of quotations for purchasing package 30 days Fri 05/03/21 Sat 03/04/21 68 68 68 5.12.7.3 Acceptance of conforming quotation 30 days Sun 04/04/21 Mon 03/05/21 0 days 67 251,526,397,650 69 69 5.12.8 General - VSDs & Passive Type Harmonic Filters, C11, ref. EQT034 (Rev. 5) 323 days Fri 01/01/21 Fri 19/11/21 403 days 70 70 5.12.8.1 60 days Fri 01/01/21 Mon 01/03/21 71 Submission for acceptance of purchasing package 0 days 71 30 days Tue 02/03/21 Wed 31/03/21 72 71 5.12.8.2 Invitation of quotations for purchasing package 0 days 70 72 72 5.12.8.3 Acceptance of conforming quotation 30 days Thu 01/04/21 Fri 30/04/21 23 days 71 249,395,524,647 73 73 5.12.8.4 90 days Thu 08/07/21 Tue 05/10/21 Manufacturing and Factory Acceptance Test of Plant 0 days 249,395,524,647 74 74 74 5.12.8.5 Shipping and Delivery of Plant to LVSB Sub-Contractor 45 days Wed 06/10/21 Fri 19/11/21 0 davs 73 287SS-90 edays 75 75 5.12.9 General - 11kV/380V Stepdown Power Transformers, C11, EQT032 (Rev. 5) 110 days Mon 18/01/21 Fri 07/05/21 20 days 76 76 5.12.9.1 Submission for acceptance of purchasing package 50 days Mon 18/01/21 Mon 08/03/21 77 0 davs 77 77 5.12.9.2 78 30 days Tue 09/03/21 Wed 07/04/21 Invitation of quotations for purchasing package 0 days 76 78 78 5.12.9.3 Acceptance of conforming quotation 30 days Thu 08/04/21 Fri 07/05/21 16 days 77 249.647 79 79 5.12.10 105 days Mon 08/02/21 Sun 23/05/21 General - UPS, C11, EQT061 (Rev. 5) 4 days 80 80 5.12.10.1 45 days Mon 08/02/21 Wed 24/03/21 81 Submission for acceptance of purchasing package 0 days 81 5.12.10.2 30 days Thu 25/03/21 Fri 23/04/21 0 days 80 82 Invitation of quotations for purchasing package 82 82 5.12.10.3 Acceptance of conforming quotation 30 days Sat 24/04/21 Sun 23/05/21 249,395,524,647 0 days 81 83 83 5.12.11 General - HV Cables, C11, EQT041 (Rev. 5) 65 days Mon 08/03/21 Tue 11/05/21 16 days 84 84 5.12.11.1 Submission for acceptance of purchasing package 14 days Mon 08/03/21 Sun 21/03/21 0 days 85 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 86 86 5.12.11.3 30 days Mon 12/04/21 Tue 11/05/21 249,647 Acceptance of conforming quotation 12 days 85 87 87 5.12.12 65 days Mon 08/03/21 Tue 11/05/21 General - LV Cables, C11, EQT042 (Rev. 5) 16 davs 88 5.12.12.1 14 days Mon 08/03/21 Sun 21/03/21 0 days Submission for acceptance of purchasing package 89 Invitation of quotations for purchasing package 89 5.12.12.2 21 days Mon 22/03/21 Sun 11/04/21 0 days 88 90 90 5 12 12 3 30 days Mon 12/04/21 Tue 11/05/21 249.395.524.647 Acceptance of conforming quotation 12 days 89 915.13 Part B: Subletting of major sub-contract works 761 days Wed 01/01/20 Sun 30/01/22 0 days 2.30 12/08 92 92 5.13.1 Planned Completion Date for major sub-contract works 0 days Thu 12/08/21 Thu 12/08/21 0 days 2SS+620 days,30SS 93 93 5.13.2 General - Independent BEAM Plus Consultant (04SC007) 150 days Wed 01/01/20 Fri 29/05/20 0 days 94 5.13.2.1 60 edays Wed 01/01/20 Sun 01/03/20 0 edays Submission for acceptance of proposed Independent BEAM Plus Consultant 95 14 edays Sun 01/03/20 Sun 15/03/20 95 5.13.2.2 Acceptance of proposed Independent BEAM Plus Consultant 0 edays 94 96 Engagement with an Independent BEAM Plus Consultant 7 days Sun 15/03/20 Sat 21/03/20 96 5.13.2.3 0 days 95 97 97 5.13.2.4 Actual Date for engagement with an independent BEAM Plus Consultant (Completed) 0 days Fri 29/05/20 Fri 29/05/20 0 days 98 98 5.13.3 General - Conduction of Pump sump physical model test 270 days Fri 15/05/20 Mon 08/02/21 0 days 99 99 5.13.3.1 7 edays Fri 15/05/20 Fri 22/05/20 100 Submission for acceptance of proposed hydraulic laboratory to conduct the test 0 edays 100 100 5.13.3.2 Invitation to quotations for provision of service 7 edays Fri 22/05/20 Fri 29/05/20 101 0 edays 99 101 101 5.13.3.3 102 6 days Fri 29/05/20 Wed 03/06/20 0 days 100 Acceptance of proposed hydraulic laboratory 102 102 5.13.3.4 103 Commencement of detailed proposal and conduction of test (Extended) 245 days Thu 04/06/20 Wed 03/02/21 0 days 101 103 103 5.13.3.5 Acceptance of hydraulic Report (Extended) 5 days Thu 04/02/21 Mon 08/02/21 0 days 102 104 104 5.13.4 127 days Wed 11/03/20 Wed 15/07/20 General - Independent Checking Engineer (04SC004) 0 days 105 105 5.13.4.1 106 Submission for acceptance of proposed Independent Checking Engineer 90 edays Wed 11/03/20 Tue 09/06/20 0 edays 107 106 106 5.13.4.2 Acceptance of proposed Independent Checking Engineer 1 eday Wed 24/06/20 Thu 25/06/20 0 edays 105 107 107 5.13.4.3 21 days Thu 25/06/20 Wed 15/07/20 108 Engagement with an Independent Checking Engineer 0 days 106 108 108 5.13.4.4 0 days Wed 15/07/20 Wed 15/07/20 Actual Date for engagement with an ICE (Completed) 0 days 107 109 109 5.13.5 General - Lifting Appliances (04SC008) 81 days Fri 01/05/20 Tue 21/07/20 0 days 110 110 5.13.5.1 Submission for acceptance of subcontract works package 30 edays Fri 01/05/20 Sun 31/05/20 0 edays 111 111 111 5.13.5.2 Invitation of tender for subcontract works 21 edays Sun 31/05/20 Sun 21/06/20 0 edays 110 112 112 112 5.13.5.3 Acceptance of conforming tender 30 edays Sun 21/06/20 Tue 21/07/20 0 edays 111 113 113 113 5.13.5.4 0 days Tue 21/07/20 Tue 21/07/20 253,398,527,652,10 Sub-contract work commencement date (Completed) 0 days 112 114 114 5.13.6 244 days Tue 01/06/21 Sun 30/01/22 General - Mechanical Installations 0 days Milestone Project Summary Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04

**Drainage Services Department** 

Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities AECOM

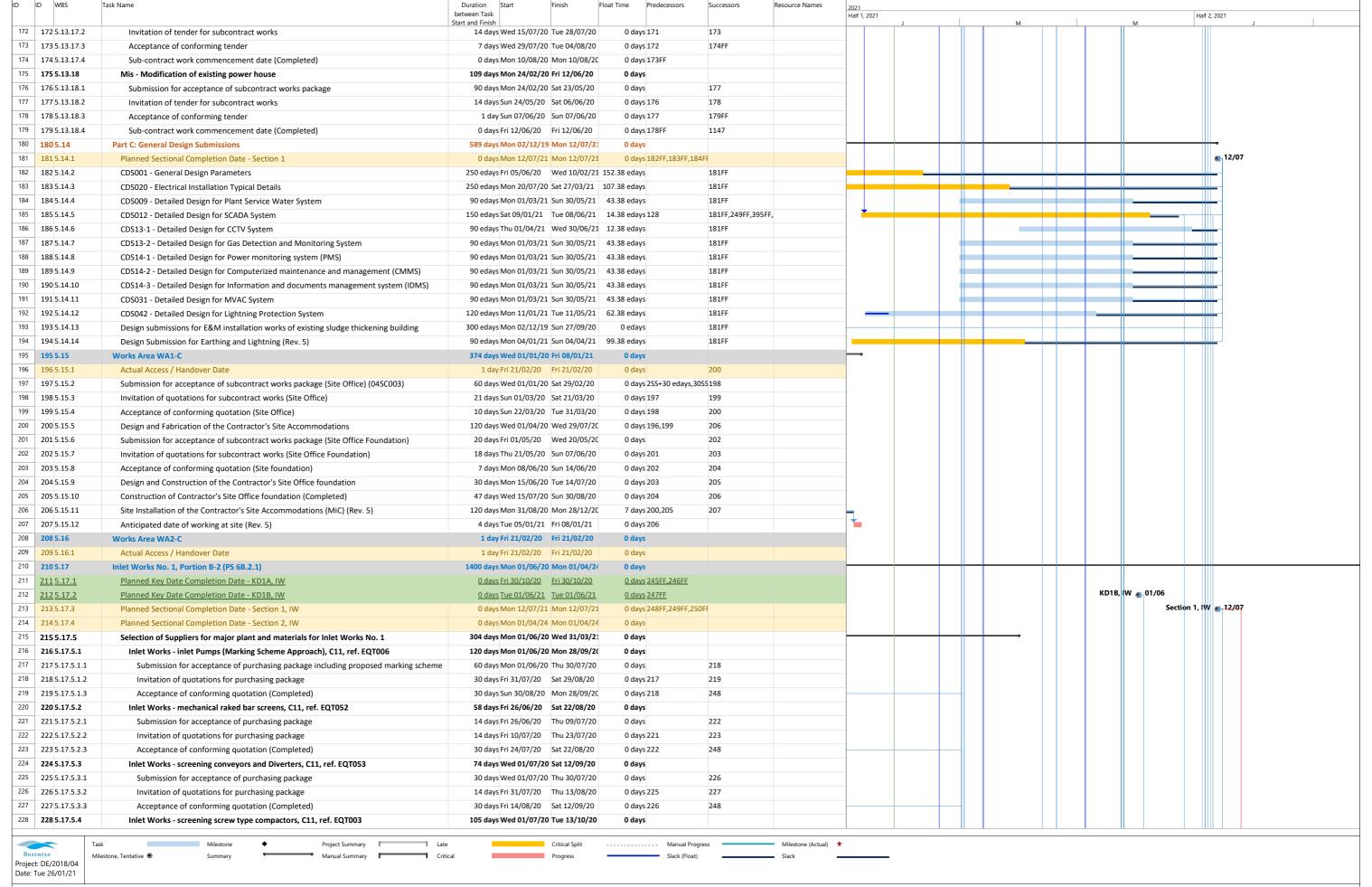


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Proposed Work Programme for DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

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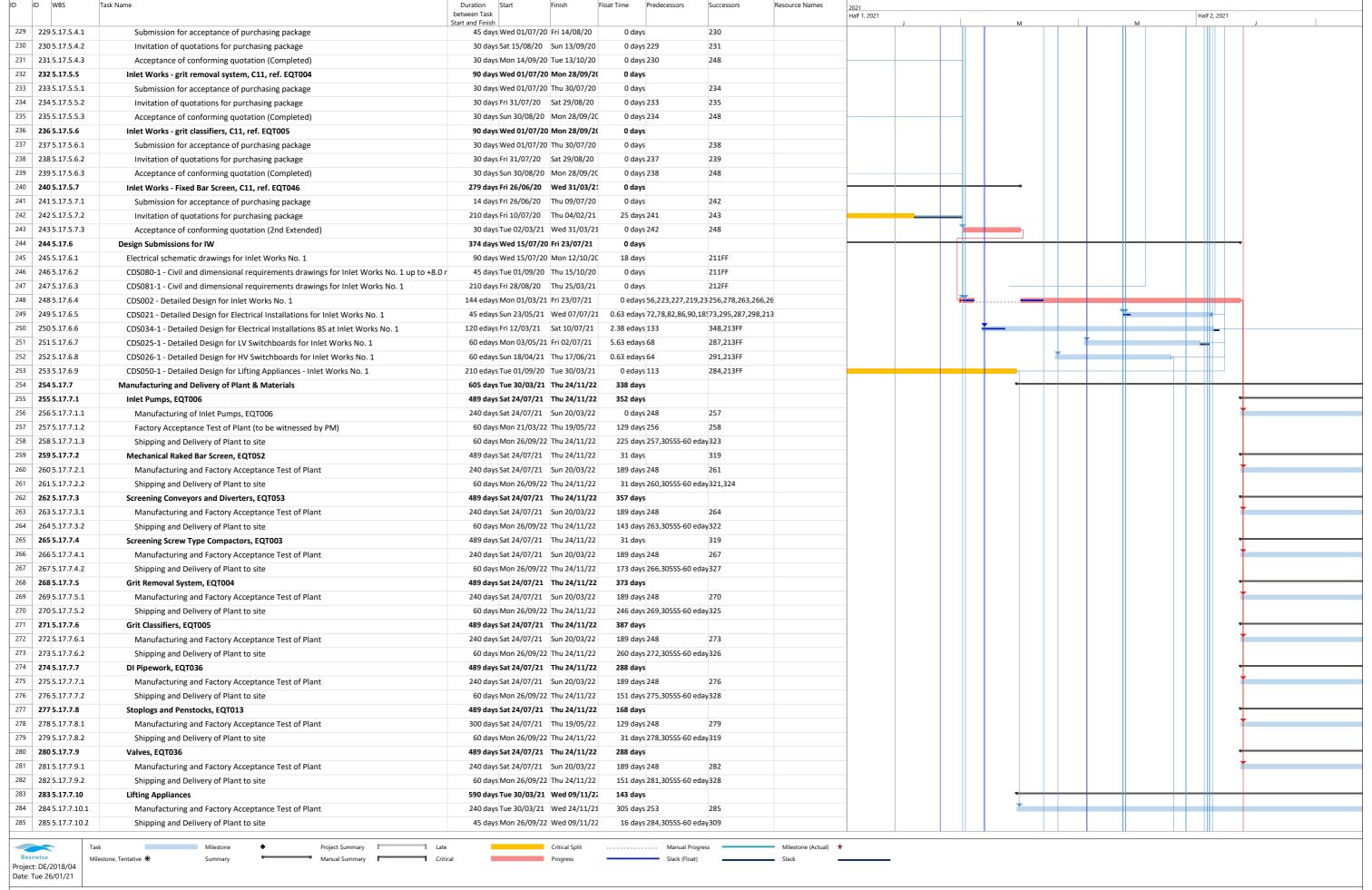
Drainage Services Department
The Government of the Hong Kong Special Administrative Region

Status Date Wed 20/01/21

Proposed Work Programme for DE/2018/04

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

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Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

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153 days 0 days 249,251,74SS-90 145 days 287 60 days 305SS-60 edays,2 153 days 0 days 252 135 days 291 60 days 292,30SSS-60 ed 153 days 56,60 205 days 249 60 days 295,30SSS-60 ed 153 days 50,60 205 days 249 85 days 298 45 days 298 45 days 298 45 days 305SS-60 edays,2 270 days 204 days 248 143 days 302,30SSS-45 edays 0 days 113 days 0 days 113 days 0 days 305 0 days 305 0 days 313,314 45 days 313,314 0 days 0 days 0 days 0 days 133,314 0 days 0 days 0 days	289 289 28334  292 293 ay335  296 ay336  299 300 299337  303 ay320  309,307,348FS+120 340FF+30 days  318SS+30 days,322, 317 317 315,317		2021 Half 1, 2021
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0 days 313,314 0 days	315,317		
0 days 313,314 0 days		LA - B x 4~6 men	
0 days		LA - C x 4~6 men	
	310,311,312,317	LA - A x 4~6 men	
	310,311,312,317		
0 days 312		LA - C x 4~6 men	
121 days	317		
0 days 310,311,312,313		LA - B x 4~6 men	
0 days 309SS+30 days	333SS+14 days,345,		
0 days 265,259,279		ME - E x 4~6 men	
0 days 317,303		ME - D x 2~4 men	
22 days 261		ME - A x 4~6 men	
0 days 309,321,264		ME - A x 4~6 men	
0 days 309,328SS+14 da		ME - B x 4~6 men	
0 days 320,261		ME - B x 4~6 men	
0 days 323,270		ME - B x 4~6 men	
127 days 325,273		ME - B x 4~6 men	
214 days 322,267		ME - A x 4~6 men	
0 days 319,276,282	323SS+14 days,330	ME - D x 2~4 men	
0 days 319	323SS+14 days,330	ME - D x 2~4 men	
137 days 328,329,52		ME - A x 4~6 men	
197 days		ME - D x 2~4 men	
137 days 319		ME - D x 2~4 men	
58 days 318SS+14 days	345		
30 days 289		LV - A x 4~6 men	
30 days 293		LV - A x 4~6 men	
30 days 296		EE - A x 4~6 men	
45 0avs 300			
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Drainage Services Department

Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities AECON

Task Name Duration Start Float Time Predecessors Resource Names between Task Half 1, 2021 Half 2, 2021 tart and Finish 343 45 days Sat 08/07/23 Mon 21/08/23 343 5 17 8 3 5 1 Configuration of PLC System, IW 0 days 339 344 PIC - A x 1 man 344 344 5.17.8.3.5.2 Site Acceptance Test for PLC System at Inlet Works No. 1 60 days Tue 22/08/23 Fri 20/10/23 51 days 343 345,1262 345 345 5.17.8.3.6 Site Acceptance Test for E&M Equip & Instrumentations calibration, IW 15 days Tue 02/01/24 Tue 16/01/24 0 days 318,333,340,470,5346 346 346 5.17.8.3.7 15 edays Tue 16/01/24 Wed 31/01/24 System Commissioning for E&M Equip at Inlet Works No. 1 0 edays 345 347 347 347 5.17.8.3.8 Risk Allowances for completion of Processing Plant at Inlet Works No. 1 7 edays Wed 31/01/24 Wed 07/02/24 0.63 edays 346.355 348 5.17.8.3.9 300 days Sun 26/03/23 Fri 19/01/24 17 days 305FS+120 days,25 Building Services Installations for Inlet Works No. 1 349 349 5.17.8.3.9.1 150 days Sun 26/03/23 Tue 22/08/23 355 MVAC - B x 4~6 men Mechanical Ventilation and Air Conditioning System, IW 30 days 350 350 5 17 8 3 9 2 Lighting and Power Distribution System, IW 180 days Sun 26/03/23 Thu 21/09/23 0 davs 355 BS - A x 4~6 men 351 351 5.17.8.3.9.3 Plumbing Installation, IW 120 days Sun 26/03/23 Sun 23/07/23 60 days 1229 1231,355 Pb - A x 4~6 men 352 352 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 305SS+150 days 355,1261 BS - B x 4~6 men 353 353 5.17.8.3.9.5 Fire Services Installation, IW 120 days Mon 24/04/23 Mon 21/08/23 31 days 305SS+150 days 1182,1194,1195,35!FS - A x 4~6 men 354 354 5.17.8.3.9.6 60 days Wed 24/05/23 Sat 22/07/23 61 days 305SS+180 days 355 BS - C x 2~4 men Earthing and Lightning Protection System, IW 355 355 5.17.8.3.9.7 120 days Fri 22/09/23 Fri 19/01/24 12 days 349,350,351,352,3347 BS - C x 2~4 men Testing and Commissioning of Building Services Installations, IW 356 1371 days Wed 01/07/20 Mon 01/04/24 356 5.18 Primary Sedimentation Tanks No. 1 ~ 4, Portion B-3 (PS 6B2.2) 0 days 357 357 5.18.1 Planned Key Date Completion Date - KD1A, PST No. 1~4 0 days Fri 30/10/20 Fri 30/10/20 0 days 391FF,392FF KD1B, PST € 01/06 358 1 day Tue 01/06/21 Tue 01/06/21 358 5.18.2 Planned Key Date Completion Date - KD1B, PST No. 1~4 Section 1, PST 6 12/07 359 359 5.18.3 Planned Sectional Completion Date - Section 1, PST No. 1~4 0 days Mon 12/07/21 Mon 12/07/21 360 360 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 361 361 5.18.5 Selection of Suppliers for major plant and materials for PST No. 1~4 230 days Wed 01/07/20 Mon 15/02/21 47 davs 362 362 5.18.5.1 PST - lamella plate settlers, C11, ref. EQT014 90 days Wed 01/07/20 Mon 28/09/20 187 days 363 363 5 18 5 1 1 30 days Wed 01/07/20 Thu 30/07/20 0 davs 364 Submission for acceptance of purchasing package 364 364 5.18.5.1.2 30 days Fri 31/07/20 Sat 29/08/20 365 Invitation of quotations for purchasing package 0 days 363 365 365 5.18.5.1.3 30 days Sun 30/08/20 Mon 28/09/20 394 Acceptance of conforming quotation 140 days 364 366 366 5.18.5.2 135 days Wed 01/07/20 Thu 12/11/20 PST - reciprocating type bottom scrapers, C11, ref. EQT014 142 days 367 367 5.18.5.2.1 45 days Wed 01/07/20 Fri 14/08/20 368 Submission for acceptance of purchasing package 0 days 368 368 5.18.5.2.2 Invitation of quotations for purchasing package 60 days Sat 15/08/20 Tue 13/10/20 0 days 367 369 369 369 5.18.5.2.3 Acceptance of conforming quotation 30 days Wed 14/10/20 Thu 12/11/20 95 days 368 394 370 370 5.18.5.3 90 days Tue 07/07/20 Sun 04/10/20 181 days PST - surface scum skimmers, C11, ref. EQT015 371 371 5.18.5.3.1 30 days Tue 07/07/20 Wed 05/08/20 372 Submission for acceptance of purchasing package 0 days 372 372 5.18.5.3.2 Invitation of quotations for purchasing package 30 days Thu 06/08/20 Fri 04/09/20 0 days 371 373 373 5.18.5.3.3 30 days Sat 05/09/20 Sun 04/10/20 134 days 372 394 Acceptance of conforming quotation 374 **374 5.18.5.4** 210 days Wed 01/07/20 Tue 26/01/21 PST - scum collector pipes, C11, ref. EQT015 67 days 375 375 5 18 5 4 1 120 days Wed 01/07/20 Wed 28/10/20 376 Submission for acceptance of purchasing package 0 days 376 376 5.18.5.4.2 Invitation of quotations for purchasing package 60 days Thu 29/10/20 Sun 27/12/20 0 days 375 377 377 377 5.18.5.4.3 Acceptance of conforming quotation 30 days Mon 28/12/20 Tue 26/01/21 20 days 376 394 378 378 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 379 379 5.18.5.5.1 120 days Wed 01/07/20 Wed 28/10/20 0 davs 380 Submission for acceptance of purchasing package 380 60 days Thu 29/10/20 Sun 27/12/20 380 5.18.5.5.2 0 days 379 381 Invitation of quotations for purchasing package 381 30 days Mon 28/12/20 Tue 26/01/21 381 5.18.5.5.3 Acceptance of conforming quotation (Completed) 0 days 380 394 382 382 5.18.5.6 PST - drain pumps, C11, ref. EQT007 210 days Tue 14/07/20 Mon 08/02/21 0 days 383 383 5.18.5.6.1 120 days Tue 14/07/20 Tue 10/11/20 384 Submission for acceptance of purchasing package 0 days 384 384 5.18.5.6.2 60 days Wed 11/11/20 Sat 09/01/21 385 Invitation of quotations for purchasing package 385 385 5.18.5.6.3 Acceptance of conforming quotation (Completed) 30 days Sun 10/01/21 Mon 08/02/21 0 days 384 394 386 386 5.18.5.7 210 days Tue 21/07/20 Mon 15/02/21 PST - air blowers, C11, ref, EQT018 47 days 387 387 5.18.5.7.1 Submission for acceptance of purchasing package 120 days Tue 21/07/20 Tue 17/11/20 0 davs 388 388 388 5.18.5.7.2 Invitation of quotations for purchasing package 60 days Wed 18/11/20 Sat 16/01/21 0 days 387 389 389 389 5.18.5.7.3 30 days Sun 17/01/21 Mon 15/02/21 394 Acceptance of conforming quotation 0 days 388 390 390 5.18.6 Design Submissions for PST No. 1~4 336 days Sat 01/08/20 Fri 02/07/21 391 5.18.6.1 Electrical schematic drawings for PST No. 1 ~4 60 days Sat 01/08/20 Tue 29/09/20 31 days 357FF 392 392 5.18.6.2 50 days Tue 01/09/20 Tue 20/10/20 357FF CDS080-2 - Civil and dimensional requirements drawings for PST No. 1~4 up to +8.0 mPD 0 days 393 393 5.18.6.3 150 days Tue 01/09/20 Thu 28/01/21 CDS081-2 - Civil and dimensional requirements drawings for PST No. 1 ~ 4 124 days 358FF 0.63 edays 365,369,373,377,3401,404.407.410.41 394 394 5.18.6.4 CDS003 - Detailed Design for Primary Sedimentation Tanks No. 1~4 100 edays Mon 15/02/21 Wed 26/05/21 395 395 5.18.6.5 CDS022 - Detailed Design for Electrical Installations for PST No. 1~4 30 edays Sun 23/05/21 Tue 22/06/21 0.63 edays 72,82,90,185FF 73,435,359FF 396 396 5.18.6.6 CDS034-2 - Detailed Design for Electrical Installations BS at PST No. 1~4 90 edays Fri 12/03/21 Thu 10/06/21 32.38 edays 133 477,359FF 397 397 5.18.6.7 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 398 398 5.18.6.8 150 edays Tue 01/09/20 Fri 29/01/21 428,359FF CDS050-2 - Detailed Design for Lifting Appliances - PST No. 1 ~ 4 0 edays 113 399 **399 5.18.7** 790 days Fri 29/01/21 Wed 29/03/2: Manufacturing and Delivery of Plant & Materials 253 days Milestone Proiect Summary Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04 Date: Tue 26/01/21 Status Date Wed 20/01/21 Page 7 of 23



400 5.18.7.1

400

Task Name

Lamella Plate Settlers, EOT014

Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities Duration Start Float Time between Task Half 1, 2021 Half 2, 2021 art and Finish 672 days Thu 27/05/21 Wed 29/03/25 193 days 300 days Thu 27/05/21 Tue 22/03/22 327 days 394 45 days Mon 13/02/23 Wed 29/03/23 143 days 401,439SS-60 eday453 672 days Thu 27/05/21 Wed 29/03/2: 163 days 300 days Thu 27/05/21 Tue 22/03/22 327 days 394 45 days Mon 13/02/23 Wed 29/03/23 16 days 404,439SS-60 eday454 672 days Thu 27/05/21 Wed 29/03/23 253 davs 300 days Thu 27/05/21 Tue 22/03/22 327 days 394 408 45 days Mon 13/02/23 Wed 29/03/23 203 days 407,439SS-60 eday455 672 days Thu 27/05/21 Wed 29/03/2: 300 days Thu 27/05/21 Tue 22/03/22 327 days 394 45 days Mon 13/02/23 Wed 29/03/23 203 days 410,439SS-60 eday456 672 days Thu 27/05/21 Wed 29/03/2: 133 days 300 days Thu 27/05/21 Tue 22/03/22 327 days 394 414 45 days Mon 13/02/23 Wed 29/03/23 106 days 413,439SS-60 eday457 672 days Thu 27/05/21 Wed 29/03/23 163 days 300 days Thu 27/05/21 Tue 22/03/22 327 days 394 45 days Mon 13/02/23 Wed 29/03/23 136 days 416,439SS-60 eday458 672 days Thu 27/05/21 Wed 29/03/23 193 davs 300 days Thu 27/05/21 Tue 22/03/22 420 327 days 394 45 days Mon 13/02/23 Wed 29/03/23 166 days 419.439SS-60 eday 459 672 days Thu 27/05/21 Wed 29/03/2: 43 days 240 days Thu 27/05/21 Fri 21/01/22 423 387 days 394 45 days Mon 13/02/23 Wed 29/03/23 16 days 439SS-60 edays,42 451 672 days Thu 27/05/21 Wed 29/03/2: 43 days 240 days Thu 27/05/21 Fri 21/01/22 387 days 394 45 days Mon 13/02/23 Wed 29/03/23 16 days 425,439SS-60 eday452 790 days Fri 29/01/21 Wed 29/03/23 66 days 210 days Fri 29/01/21 Thu 26/08/21 535 days 398 45 days Mon 13/02/23 Wed 29/03/23 16 days 428.439SS-60 eday442 635 days Sat 03/07/21 Wed 29/03/2: 53 days 300 days Sat 03/07/21 Thu 28/04/22 432 0 days 397 90 days Fri 29/04/22 Wed 27/07/22 433 200 days 431 45 days Mon 13/02/23 Wed 29/03/23 16 days 432,439SS-60 eday464 645 days Wed 23/06/21 Wed 29/03/23 300 days Wed 23/06/21 Mon 18/04/22 60 days Tue 19/04/22 Fri 17/06/22 240 days 435 437 45 days Mon 13/02/23 Wed 29/03/23 16 days 436.439SS-60 eday465 298 days Fri 14/04/23 Mon 05/02/24 0 days 1 day Fri 14/04/23 Fri 14/04/23 0 days 442.477FS+90 days 297 days Sat 15/04/23 Mon 05/02/24 0 days 439 403 30 days Sat 15/04/23 Sun 14/05/23 127 days Sat 15/04/23 Sat 19/08/23 50 days 439,429 30 days Sat 15/04/23 Sun 14/05/23 444,445,449 LA - A x 4~6 men 0 days 30 days Mon 15/05/23 Tue 13/06/23 449 LA - A x 4~6 men 60 days 443 30 days Mon 15/05/23 Tue 13/06/23 0 days 443 446,447,449 LA - B x 4~6 men 30 days Wed 14/06/23 Thu 13/07/23 30 days 445 449 LA - A x 4~6 men 448,449 30 days Wed 14/06/23 Thu 13/07/23 LA - B x 4~6 men 30 days Fri 14/07/23 Sat 12/08/23 0 days 447 LA - A x 4~6 men 7 days Sun 13/08/23 Sat 19/08/23 0 days 443,444,445,446,4 453 LA - A x 4~6 men 474 240 days Sat 15/04/23 Sun 10/12/23 20 days 90 days Sat 15/04/23 Thu 13/07/23 0 days 423 457.462 ME - E x 4~6 men

401 401 5.18.7.1.1 Manufacturing and Factory Acceptance Test of Plant 402 402 5.18.7.1.2 Shipping and Delivery of Plant to site 403 403 5.18.7.2 Reciprocating Type Bottom Scrappers, EQT014 404 404 5.18.7.2. Manufacturing and Factory Acceptance Test of Plant 405 5.18.7.2.2 Shipping and Delivery of Plant to site 406 406 5.18.7.3 Surface Scum Skimmers, EQT015 407 407 5 18 7 3 1 Manufacturing and Factory Acceptance Test of Plant 408 408 5.18.7.3.2 Shipping and Delivery of Plant to site 409 409 5.18.7.4 Surface Scum Collection Pipes, EQT015 410 410 5.18.7.4.1 Manufacturing and Factory Acceptance Test of Plant 411 5.18.7.4.2 Shipping and Delivery of Plant to site 412 412 5.18.7.5 Piston Type Primary Sludge Pumps, EQT016 413 413 5.18.7.5.1 Manufacturing and Factory Acceptance Test of Plant 414 414 5.18.7.5.2 Shipping and Delivery of Plant to site 415 415 5.18.7.6 Drain Pumps, EQT007 416 416 5.18.7.6.3 Manufacturing and Factory Acceptance Test of Plant 417 417 5.18.7.6.2 Shipping and Delivery of Plant to site 418 418 5.18.7.7 Air Blower, EOT018 419 419 5.18.7.7.1 Manufacturing and Factory Acceptance Test of Plant 420 420 5.18.7.7.2 Shipping and Delivery of Plant to site 421 421 5.18.7.8 Stoplogs and Penstocks, EQT013 422 422 5.18.7.8.1 Manufacturing and Factory Acceptance Test of Plant 423 423 5.18.7.8.2 Shipping and Delivery of Plant to site 424 424 5.18.7.9 Valves, EQT036 425 425 5.18.7.9.1 Manufacturing and Factory Acceptance Test of Plant 426 426 5.18.7.9.2 Shipping and Delivery of Plant to site 427 427 5.18.7.10 Lifting Appliances 428 428 5.18.7.10.1 Manufacturing and Factory Acceptance Test of Plant 429 429 5.18.7.10.2 Shipping and Delivery of Plant to site 430 5.18.7.11 LV Switchboards 431 431 5.18.7.11.1 PST - Manufacturing of Plant 432 432 5 18 7 11 2 PST - Factory Acceptance Test of Plant (to be witnessed by PM) 433 433 5.18.7.11.3 PST - Shipping and Delivery of Plant to site 434 434 5.18.7.12 435 435 5.18.7.12.1 Manufacturing of Plant, PLC for PST 436 436 5.18.7.12.2 Factory Acceptance Test of Plant, PLC for PST (To be witnessed by PM) 437 437 5.18.7.12.3 Shipping and Delivery of Plant to site 438 438 5.18.8 Site Installation Work 439 439 5 18 8 1 Tentative Civil Handover Date, Portion B-3, PST No. 1~4 (Rev. 5) 440 440 5.18.8.2 Commencement of E&M Installation at PST No. 1~4 441 441 5.18.8.2.1 Provision of Temporary Water Supply, Electricity Supply, Lighting Welfare facilities etc., 442 442 5.18.8.2.2 Installation of Lifting Appliances at PST No. 1~4 443 5.18.8.2.2.1 Basement EOT Crane LA-02-01 SWL 10t 444 444 5.18.8.2.2.2 Coping Level EOT Crane LA-02-02 SWL 5t 445 445 5.18.8.2.2.3 Coping Level EOT Crane LA-02-03 SWL 5t 446 446 5.18.8.2.2.4 Coping Level EOT Crane LA-02-04 SWL 5t 447 447 5.18.8.2.2.5 Coping Level EOT Crane LA-02-05 SWL 5t 448 448 5.18.8.2.2.6 Coping Level EOT Crane LA-02-06 SWL 2t 449 5.18.8.2.2.7 T&C, Loading Test for Lifting Appliances at PST No. 1~4 450 450 5.18.8.2.3 Mechanical Installations at PST No. 1~4 451 Installation of penstocks and stoplogs (Penstock 18nos, Stoplogs 14 nos), EQT013 451 5.18.8.2.3.1 452 452 5.18.8.2.3.2 Installation of pipework and valves, EQT036 240 days Sat 15/04/23 Sun 10/12/23 27 days 426 ME - B x 4~6 men 453 453 5.18.8.2.3.3 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 454 454 5.18.8.2.3.4 Installation of reciprocating type bottom scrapers (x4), EQT014 30 days Sat 15/04/23 Sun 14/05/23 97 days 405 ME - A x 4~6 men 455 455 5.18.8.2.3.5 Installation of surface scum skimmers (x1), EQT015 30 days Thu 19/10/23 Fri 17/11/23 ME - A x 4~6 men 50 days 453,408 456 456 5.18.8.2.3.6 30 days Thu 19/10/23 Fri 17/11/23 50 days 453,411 Installation of scum collector pipes (x1), EQT015 ME - B x 4~6 men Milestone Proiect Summary Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04 Date: Tue 26/01/21



Proposed Work Programme for DE/2018/04

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

Task Name Duration Start Float Time Predecessors Resource Names between Task Half 1, 2021 Half 2, 2021 Start and Finish 457 30 days Fri 14/07/23 Sat 12/08/23 457 5 18 8 2 3 7 Installation of piston type primary sludge pumps (x3), EQT016 0 days 451 414 458 MF - C x 4~6 men 458 458 5.18.8.2.3.8 Installation of drain pumps (x1), EQT007 30 days Sun 13/08/23 Mon 11/09/23 0 days 457,417 459 ME - C x 4~6 men 459 459 5.18.8.2.3.9 Installation of air blowers (x2), EQT018 30 days Tue 12/09/23 Wed 11/10/23 0 days 458,420 460 ME - C x 4~6 men 460 460 5.18.8.2.3.10 60 days Thu 12/10/23 Sun 10/12/23 ME - C x 4~6 men Installation of instrumentations, EQT035-1 27 days 459,52 48 days 461 5.18.8.2.3.11 60 days Thu 21/09/23 Sun 19/11/23 ME - F x 4~6 men Installation of Platforms, Covers etc., PST, EQT050 462 5.18.8.2.3.12 150 days Fri 14/07/23 Sun 10/12/23 ME - D x 2~4 men Site Acceptance Tests - mechanical aspects including alignment and levels checks, leal 27 days 451 463 463 5.18.8.2.4 260 days Sat 15/04/23 Sat 30/12/23 474 Electrical Installations for PST No. 1~4 0 days 439 464 464 5 18 8 2 4 1 Installation of LV Switchboards, PST 60 days Sat 15/04/23 Tue 13/06/23 30 days 433 467 LV - A x 4~6 men 465 465 5.18.8.2.4.2 Installation of PLC Panel, PST 60 days Sat 15/04/23 Tue 13/06/23 30 days 437 467 466 466 5.18.8.2.4.3 Installation of cable trays and cable containments, PST 90 days Sat 15/04/23 Thu 13/07/23 467 467 467 5.18.8.2.4.4 Cables laying and terminations, PST 90 days Fri 14/07/23 Wed 11/10/23 0 days 464,465,466 469FS-30 days,472,4 168 5.18.8.2.4.5 1 day Thu 20/07/23 Thu 20/07/23 Tentative Civil Handover Date, LV cables draw pits from IW to PST 24 days 469 469 5.18.8.2.4.6 1 day Tue 12/09/23 Tue 12/09/23 LV - A x 4~6 men Energisation of LV Switchboards, PST 109 days 467FS-30 days, 468 474 470 470 5.18.8.2.4.7 80 days Thu 12/10/23 Sat 30/12/23 LV - A x 4~6 men Site Acceptance Tests - Electrical aspects including voltage and current tests, equipme 2 days 467 345 471 471 5.18.8.2.5 SCADA Systems, PST No. 1~4 60 days Thu 12/10/23 Sun 10/12/23 57 days 472 472 5.18.8.2.5.1 45 days Thu 12/10/23 Sat 25/11/23 473 PLC - B x 1 man Configuration of PLC System 0 days 467 473 475FF,1262 473 5.18.8.2.5.2 Site Acceptance Test for PLC System at PST No. 1~4 15 days Sun 26/11/23 Sun 10/12/23 0 days 472 474 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 14/01/24 0.63 edays 450,463,469 475 475 475 5.18.8.2.7 15 days Mon 15/01/24 Mon 29/01/24 476 System Commissioning for E&M Equip at PST No. 1~4 0 days 474.473FF 476 476 5.18.8.2.8 1258 Risk Allowances for Completion of Processing Plant at PST No. 1~4 7 edays Mon 29/01/24 Mon 05/02/24 2.63 edays 475 477 477 5.18.8.2.9 Building Services Installations for PST No. 1~4 150 days Fri 14/07/23 Sun 10/12/23 2 days 439FS+90 days.396 478 Mechanical Ventilation and Air Conditioning System, PST 478 5.18.8.2.9.1 90 days Fri 14/07/23 Wed 11/10/23 484 MVAC - B x 4~6 mer 0 days 479 479 5.18.8.2.9.2 90 days Fri 14/07/23 Wed 11/10/23 484 BS - A x 4~6 men Lighting and Power Distribution System, PST 0 days 480 5.18.8.2.9.3 Plumbing Installation, PST 80 days Fri 14/07/23 Sun 01/10/23 Pb - B x 4~6 men 0 days 1229 481 481 5.18.8.2.9.4 CCTV Installation (9 indoor + 2 outdoor Cameras), PST 60 days Fri 14/07/23 Mon 11/09/23 484,1261 BS - B x 4~6 men 0 days 439FS+60 days 482 1182.1194.1195.48 FS - A x 4~6 men 482 5.18.8.2.9.5 Fire Services Installation, PST 85 days Fri 14/07/23 Fri 06/10/23 0 davs 483 483 5.18.8.2.9.6 Earthing and Lightning Protection System, PST 90 days Fri 14/07/23 Wed 11/10/23 0 days 484 BS - C x 2~4 men 484 484 5.18.8.2.9.7 Testing and Commissioning of Building Services Installations, PST 60 days Thu 12/10/23 Sun 10/12/23 113 days 478,479,480,481,4360F BS - C x 2~4 men 485 485 5.19 Bioreactors No. 2A & 2B, Portion B-4 (PS 6B2.4) 1326 days Sat 15/08/20 Mon 01/04/24 0 days 486 Planned Key Date Completion Date - KD1A, BR 2A & 2B 0 days Fri 30/10/20 Fri 30/10/20 0 days 520FF,521FF 486 5.19.1 487 KD1B, BR 6 01/06 0 days Tue 01/06/21 Tue 01/06/21 4875.19.2 Planned Key Date Completion Date - KD1B, BR 2A & 2B 0 days 522FF **@**12/07 488 0 days Mon 12/07/21 Mon 12/07/21 0 days 523FF.524FF.525FF 488 5.19.3 Planned Sectional Completion Date - Section 1, BR 2A & 2B 489 489 5 19 4 Planned Sectional Completion Date - Section 2, BR 2A & 2B 0 days Mon 01/04/24 Mon 01/04/24 0 days 595FF 594FF 490 490 5.19.5 Selection of Suppliers for major plant and materials for BR 2A & 2B 193 days Tue 01/09/20 Fri 12/03/21 491 491 5.19.5.1 BR - pre-treatment fine screens (Marking Scheme Approach), EQT019 150 days Tue 01/09/20 Thu 28/01/21 49 days 492 492 5.19.5.1.1 Submission for acceptance of purchasing package 60 days Tue 01/09/20 Fri 30/10/20 0 days 493 493 5.19.5.1.2 Invitation of quotations for purchasing package 60 days Sat 31/10/20 Tue 29/12/20 0 days 492 494 494 494 5.19.5.1.3 30 days Wed 30/12/20 Thu 28/01/21 43 days 493 523 Acceptance of conforming quotation 495 180 days Tue 01/09/20 Sat 27/02/21 495 5.19.5.2 BR - air diffusion system (Marking Scheme Approach), EQT017 19 days 496 496 5.19.5.2.1 Submission for acceptance of purchasing package including proposed marking scheme 90 days Tue 01/09/20 Sun 29/11/20 0 days 497 497 497 5.19.5.2.2 60 days Mon 30/11/20 Thu 28/01/21 498 Invitation of quotations for purchasing package 0 days 496 498 498 5.19.5.2.3 30 days Fri 29/01/21 Sat 27/02/21 523 Acceptance of conforming quotation 499 5.19.5.3 BR - submersible mixers, C11, EQT020 150 days Tue 01/09/20 Thu 28/01/21 49 days 500 500 5.19.5.3.1 60 days Tue 01/09/20 Fri 30/10/20 501 0 days Submission for acceptance of purchasing package 501 501 5.19.5.3.2 502 Invitation of quotations for purchasing package 60 days Sat 31/10/20 Tue 29/12/20 0 days 500 502 502 5.19.5.3.3 Acceptance of conforming quotation 30 days Wed 30/12/20 Thu 28/01/21 43 days 501 523 503 503 5.19.5.4 150 days Mon 14/09/20 Wed 10/02/21 BR - mixed liquor return pumps, C11, EQT008 36 days 504 505 504 5.19.5.4.: Submission for acceptance of purchasing package 60 days Mon 14/09/20 Thu 12/11/20 0 days 505 506 505 5.19.5.4.2 Invitation of quotations for purchasing package 60 days Fri 13/11/20 Mon 11/01/21 0 days 504 506 506 5.19.5.4.3 30 days Tue 12/01/21 Wed 10/02/21 Acceptance of conforming quotation 30 days 505 523 507 507 5.19.5.5 BR - scum removal systems, C11, EQT021, EQT022 150 days Mon 14/09/20 Wed 10/02/21 36 days 508 508 5.19.5.5.1 Submission for acceptance of purchasing package 60 days Mon 14/09/20 Thu 12/11/20 0 days 509 509 509 5.19.5.5.2 Invitation of quotations for purchasing package 60 days Fri 13/11/20 Mon 11/01/21 0 days 508 510 510 510 5.19.5.5.3 Acceptance of conforming quotation 30 days Tue 12/01/21 Wed 10/02/21 30 days 509 523 511 511 5.19.5.6 BR - aeration blowers (Marking Scheme Approach), EQT039 180 days Mon 14/09/20 Fri 12/03/21 6 days 512 512 5.19.5.6.1 Submission for acceptance of purchasing package including proposed marking scheme 90 days Mon 14/09/20 Sat 12/12/20 513 0 days 513 513 5.19.5.6.2 Invitation of quotations for purchasing package 60 days Sun 13/12/20 Wed 10/02/21 514 0 days 512 Milestone Project Summary Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04 Date: Tue 26/01/21

Drainage Services Department

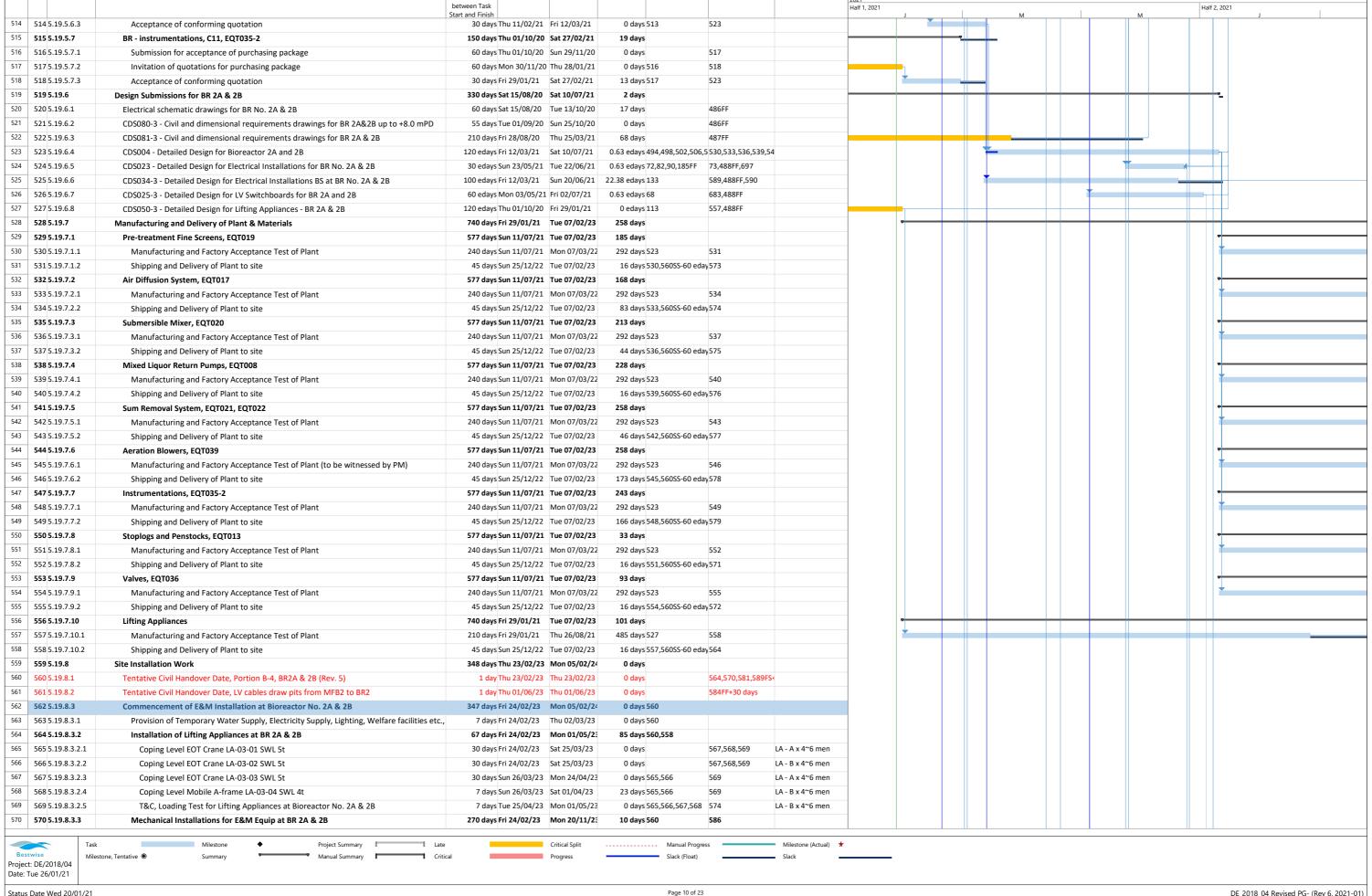
Task Name

Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

Float Time

Duration Start

AECOM





Proposed Work Programme for DE/2018/04

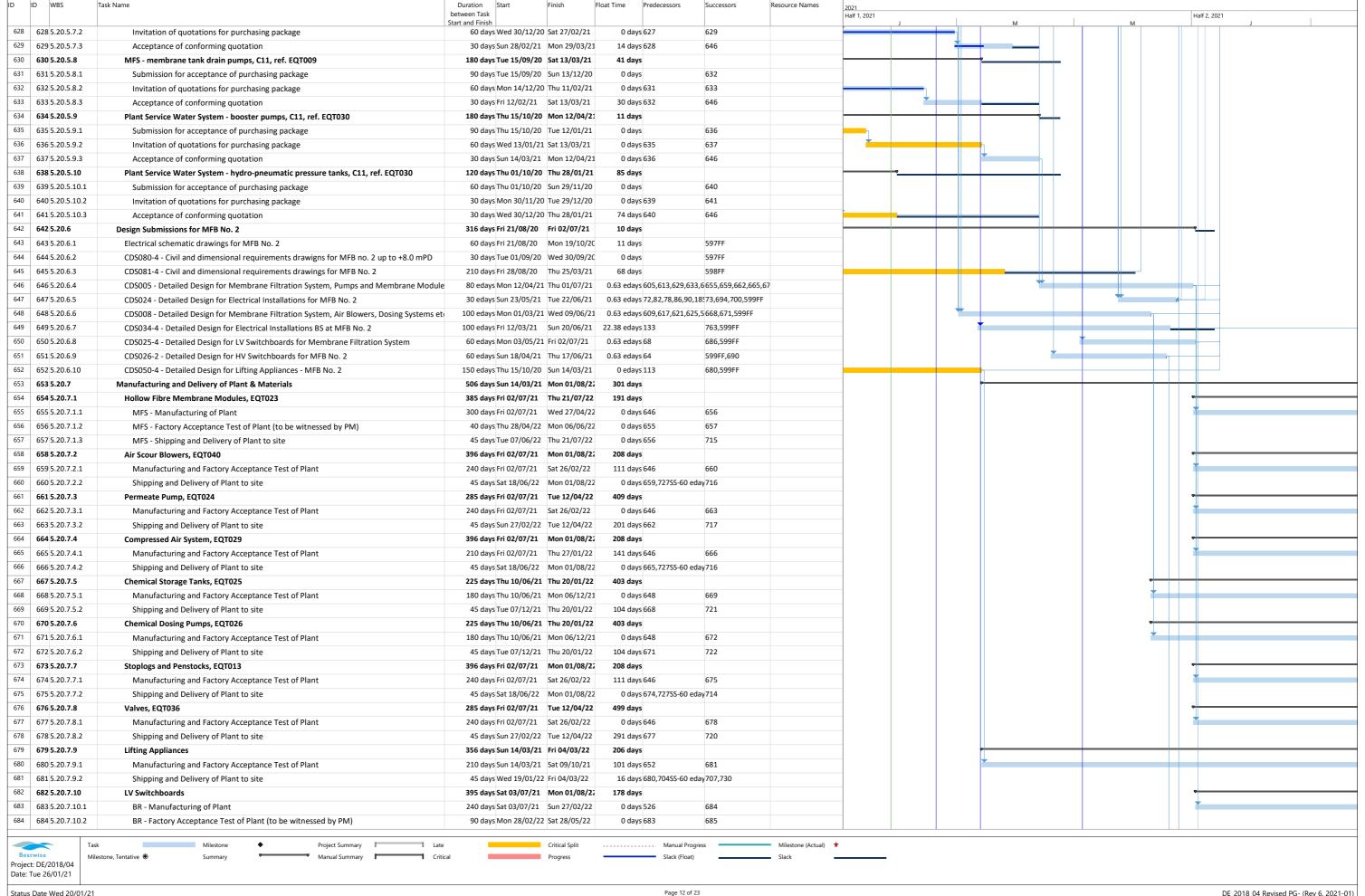
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

Task Name Duration Start Float Time Predecessors Resource Names between Task Half 1, 2021 Half 2, 2021 Start and Finish 571 571 5 19 8 3 3 1 Installation of penstocks and stoplogs (Penstocks 8nos, Stoplogs 8nos), EQT013 90 days Fri 24/02/23 Wed 24/05/23 0 days 552 580 MF - F x 4~6 men 572 572 5.19.8.3.3.2 Installation of pipework and valves, EQT036 150 days Fri 24/02/23 Sun 23/07/23 0 days 555 579 ME - C x 4~6 men 573 573 5.19.8.3.3.3 Installation of pre-treatment fine screens (x4) 28 days Fri 24/02/23 Thu 23/03/23 0 days 531 575 ME - A x 4~6 men Installation of air diffusion system (x2), EQT017 574 574 5.19.8.3.3.4 90 days Tue 02/05/23 Sun 30/07/23 578 ME - D x 2~4 men 0 days 569,534 575 575 5.19.8.3.3.5 Installation of submersible mixers (x16), EQT020 90 days Fri 24/03/23 Wed 21/06/23 162 days 573,537 586 ME - B x 4~6 men 576 5.19.8.3.3.6 30 days Fri 24/02/23 Sat 25/03/23 577 0 days 540 ME - A x 4~6 men Installation of mixed liquor return pumps (x6), EOT008 577 577 5.19.8.3.3.7 45 days Sun 26/03/23 Tue 09/05/23 205 days 576.543 586 ME - B x 4~6 men Installation of scum removal systems (x2), EQT022 578 578 5.19.8.3.3.8 Installation of aeration blowers (x4), EQT039 45 days Mon 31/07/23 Wed 13/09/23 78 days 574.546 586 MF - D x 2~4 men 70 days 572,549 579 579 5.19.8.3.3.9 Installation of instrumentations, EQT035-2 60 days Mon 24/07/23 Thu 21/09/23 586 ME - D x 2~4 men 580 580 5.19.8.3.3.10 Site Acceptance Tests - mechanical aspects including alignment and levels checks, leal 180 days Thu 25/05/23 Mon 20/11/23 10 days 571 586 ME - D x 2~4 men 581 581 5.19.8.3.4 Electrical Installations for E&M Equip at BR 2A & 2B 280 days Fri 24/02/23 Thu 30/11/23 0 days 560 586 582 5.19.8.3.4.1 120 days Fri 24/02/23 Fri 23/06/23 0 days 560 583 Installation of cable trays and cable containments 583 583 5.19.8.3.4.2 100 days Sat 24/06/23 Sun 01/10/23 0 days 582 585,756 Cables laying and terminations 584 584 5.19.8.3.4.3 1 day Sat 01/07/23 Sat 01/07/23 152 days 561FF+30 days 586 Energisation of LV Switchboards, BR2 LV - A x 4~6 men 585 585 5.19.8.3.4.4 Site Acceptance Tests - Electrical aspects including voltage and current tests, equipme 60 days Mon 02/10/23 Thu 30/11/23 32 days 583 LV - A x 4~6 men 586 586 5.19.8.3.5 30 edays Thu 30/11/23 Sat 30/12/23 0.63 edays 570,575,577,578,5587 Site Acceptance Test for E&M Equip at BR 2A & 2B 587 587 5.19.8.3.6 System Commissioning for E&M Equip at BR 2A & 2B 30 days Sun 31/12/23 Mon 29/01/24 0 days 586.758 588 5.19.8.3.7 Risk Allowances for Completion of Processing Plant at BR 2A & 2B 7 edays Mon 29/01/24 Mon 05/02/24 2.63 edays 587 1258 589 589 5.19.8.3.8 195 days Thu 25/05/23 Tue 05/12/23 Building Services Installations for BR 2A & 2B 12 days 560FS+90 edays.52 590 590 5.19.8.3.8.1 150 days Thu 25/05/23 Sat 21/10/23 BS - A x 4~6 men Lighting and Power Distribution System, BR2 0 days 525 595 591 591 5.19.8.3.8.2 120 days Thu 25/05/23 Thu 21/09/23 10 days 1229 1231 595 Ph - A x 4~6 men Plumbing Installation, BR2 592 592 5.19.8.3.8.3 60 days Sat 24/06/23 Tue 22/08/23 20 days 560FS+120 days 595,1261 BS - B x 4~6 men CCTV Installation (7 indoor + 2 outdoor Cameras), BR2 593 593 5.19.8.3.8.4 120 days Thu 25/05/23 Thu 21/09/23 1182,1194,1195,59!FS - B x 4~6 men Fire Services Installation, BR2 15 days 594 594 5.19.8.3.8.5 60 days Thu 25/05/23 Sun 23/07/23 253 days BS - C x 2~4 men Lightning Protection System, BR2 595 595 5.19.8.3.8.6 45 days Sun 22/10/23 Tue 05/12/23 118 days 590,591,592,593 489FF BS - C x 2~4 men Testing and Commissioning of Building Services Installations, BR2 596 596 5.20 1320 days Fri 21/08/20 Mon 01/04/24 Membrane Facilities Building, Portion B-5 (PS 6B.2.4) 0 days 597 597 5.20.1 Planned Key Date Completion Date - KD1A, MFB No. 2 0 days Fri 30/10/20 Fri 30/10/20 0 days 643FF,644FF KD1B, MFB € 01/06 598 Planned Key Date Completion Date - KD1B, MFB No. 2 0 days Tue 01/06/21 Tue 01/06/21 598 5.20.2 0 days 645FF 599 0 days Mon 12/07/21 Mon 12/07/21 **@** 12/07 599 5.20.3 Planned Sectional Completion Date - Section 1, MFB No. 2 0 days 646FF,647FF,648F 600 600 5.20.4 Planned Sectional Completion Date - Section 2, MFB No. 2 0 days Mon 01/04/24 Mon 01/04/24 0 days 601 601 5.20.5 224 days Tue 01/09/20 Mon 12/04/21 Selection of Suppliers for major plant and materials for MFB 11 days 602 602 5.20.5.1 150 days Tue 01/09/20 Thu 28/01/21 MFS - hollow fibre membrane modules (Marking Scheme Approach), ref. EQT023 0 days 603 603 5 20 5 1 1 604 Submission for acceptance of purchasing package including proposed marking scheme 60 days Tue 01/09/20 Fri 30/10/20 0 days 604 604 5.20.5.1.2 Invitation of quotations for purchasing package 60 days Sat 31/10/20 Tue 29/12/20 0 days 603 605 605 605 5.20.5.1.3 Acceptance of conforming quotation (Completed) 30 days Wed 30/12/20 Thu 28/01/21 0 days 604 646 606 MFS - air scour blowers, C11, ref. EQT040 150 days Tue 01/09/20 Thu 28/01/21 65 days 607 607 5.20.5.2.1 60 days Tue 01/09/20 Fri 30/10/20 608 Submission for acceptance of purchasing package 0 davs 608 609 608 5.20.5.2.2 60 days Sat 31/10/20 Tue 29/12/20 0 days 607 Invitation of quotations for purchasing package 609 609 5.20.5.2.3 30 days Wed 30/12/20 Thu 28/01/21 648 Acceptance of conforming quotation 32 days 608 610 610 5.20.5.3 MFS - permeate pumps, C11, ref. EQT024 180 days Tue 01/09/20 Sat 27/02/21 55 days 611 611 5.20.5.3.1 Submission for acceptance of purchasing package 90 days Tue 01/09/20 Sun 29/11/20 612 0 days 612 612 5.20.5.3.2 60 days Mon 30/11/20 Thu 28/01/21 613 Invitation of quotations for purchasing package 613 613 5.20.5.3.3 Acceptance of conforming quotation 30 days Fri 29/01/21 Sat 27/02/21 44 days 612 614 614 5.20.5.4 120 days Tue 15/09/20 Tue 12/01/21 MFS - compressed air system, C11, ref. EQT029 81 days 615 615 5.20.5.4.1 Submission for acceptance of purchasing package 60 days Tue 15/09/20 Fri 13/11/20 0 davs 616 616 616 5.20.5.4.2 Invitation of quotations for purchasing package 30 days Sat 14/11/20 Sun 13/12/20 0 days 615 617 617 48 days 616 617 5.20.5.4.3 30 days Mon 14/12/20 Tue 12/01/21 648 Acceptance of conforming quotation 618 618 5.20.5.5 MFS - chemical storage tanks, C11, ref. EQT025 120 days Thu 01/10/20 Thu 28/01/21 65 days 619 620 619 5.20.5.5.1 Submission for acceptance of purchasing package 60 days Thu 01/10/20 Sun 29/11/20 0 davs 620 5.20.5.5.2 30 days Mon 30/11/20 Tue 29/12/20 621 Invitation of quotations for purchasing package 0 days 619 621 621 5.20.5.5.3 30 days Wed 30/12/20 Thu 28/01/21 648 Acceptance of conforming quotation 32 days 620 622 622 5.20.5.6 MFS - chemical dosing pumps, C11, ref. EQT026 120 days Thu 01/10/20 Thu 28/01/21 65 days 623 623 5.20.5.6.1 Submission for acceptance of purchasing package 60 days Thu 01/10/20 Sun 29/11/20 0 days 2,30 624 624 624 5.20.5.6.2 Invitation of quotations for purchasing package 30 days Mon 30/11/20 Tue 29/12/20 0 days 623 625 625 625 5.20.5.6.3 Acceptance of conforming quotation 30 days Wed 30/12/20 Thu 28/01/21 32 days 624 626 626 5.20.5.7 180 days Thu 01/10/20 Mon 29/03/21 MFS - return activated sludge pumps (Marking Scheme Approach), ref. EQT010 25 days 627 627 5.20.5.7.1 90 days Thu 01/10/20 Tue 29/12/20 Submission for acceptance of purchasing package 0 days 628 Milestone Proiect Summary Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04 Date: Tue 26/01/21



Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities





Drainage Services Department
The Government of the Hong Kong Special Administrative Region

Proposed Work Programme for DE/2018/04

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

Task Name Duration Start Float Time between Task Half 1, 2021 Half 2, 2021 art and Finish 685 45 days Sun 29/05/22 Tue 12/07/22 685 5 20 7 10 3 BR - Shipping and Delivery of Plant to site 126 days 684 745 686 686 5.20.7.10.4 MFS - Manufacturing of Plant 240 days Sat 03/07/21 Sun 27/02/22 0 days 650 687 687 687 5.20.7.10.5 MFS - Factory Acceptance Test of Plant (to be witnessed by PM) 90 days Mon 28/02/22 Sat 28/05/22 20 days 686 688 688 688 5.20.7.10.6 45 days Sat 18/06/22 Mon 01/08/22 MFS - Shipping and Delivery of Plant to site 106 days 687,727SS-60 eday746 689 689 5.20.7.11 410 days Fri 18/06/21 Mon 01/08/22 208 days HV Switchboards, EQT031 690 5.20.7.11.1 180 days Fri 18/06/21 Tue 14/12/21 0 days 651 691 MFS - Manufacturing of Plant 691 691 5.20.7.11.2 90 days Wed 15/12/21 Mon 14/03/22 692 MFS - Factory Acceptance Test of Plant (to be witnessed by PM) 95 days 690 692 692 5 20 7 11 3 MFS - Shipping and Delivery of Plant to site 45 days Sat 18/06/22 Mon 01/08/22 106 days 691.727SS-60 eday749 693 693 5.20.7.12 11kV/380V Stepdown Power Transformers, EQT032 285 days Wed 23/06/21 Sun 03/04/22 553 days 694 694 5.20.7.12.1 MFS - Manufacturing and Factory Acceptance Test of Plant 240 days Wed 23/06/21 Thu 17/02/22 0 days 647 695 695 695 5.20.7.12.2 MFS - Shipping and Delivery of Plant to site 45 days Fri 18/02/22 Sun 03/04/22 226 days 694 750 696 696 5.20.7.13 285 days Wed 23/06/21 Sun 03/04/22 298 days PLC System 697 697 5.20.7.13.1 210 days Wed 23/06/21 Tue 18/01/22 Manufacturing of Plant, PLC for BR2A &B 0 days 524 698 698 699 698 5.20.7.13.2 30 days Wed 19/01/22 Thu 17/02/22 Factory Acceptance Test of Plant, PLC for BR2A &B (To be witnessed by PM) 0 days 697 699 699 5.20.7.13.3 Shipping and Delivery of Plant to site 45 days Fri 18/02/22 Sun 03/04/22 226 days 698 747 700 700 5.20.7.13.4 210 days Wed 23/06/21 Tue 18/01/22 701 Manufacturing of Plant, PLC for MFB2 701 702 701 5.20.7.13.5 Factory Acceptance Test of Plant, PLC for MFB2 (To be witnessed by PM) 30 days Wed 19/01/22 Thu 17/02/22 0 days 700 702 702 5.20.7.13.6 Shipping and Delivery of Plant to site 45 days Fri 18/02/22 Sun 03/04/22 226 days 701 748 703 703 5.20.8 Site Installation Work 683 days Sun 20/03/22 Wed 31/01/24 0 davs 704 707.713FS+45 eday 704 5.20.8.1 1 day Sun 20/03/22 Sun 20/03/22 Tentative Civil Handover Date, Portion B-5A, MFB No. 2 below 1st floor level (Rev. 5) 0 days 705 705 5.20.8.2 404 days Mon 21/03/22 Fri 28/04/23 Commencement of E&M Installation at MFB No. 2 Lower Part 0 days 704 706 706 5.20.8.2.1 7 days Mon 21/03/22 Sun 27/03/22 Provision of Temporary Water Supply, Electricity Supply, Lighting, Welfare facilities etc., 0 days 704 707 707 5.20.8.2.2 66 days Mon 21/03/22 Wed 25/05/22 Installation of Lifting Appliances at MFB No. 2 248 days 704,681 708 708 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 0 days 709 709 5.20.8.2.2.2 B2 EOT Crane LA-04-02 SWL 5t 710,711,712 30 days Mon 21/03/22 Tue 19/04/22 15 days 710 710 5.20.8.2.2.3 B2 MR LA-04-03 SWL 5t 14 days Thu 05/05/22 Wed 18/05/22 0 days 708.709 712 711 711 5.20.8.2.2.4 B1 MR LA-04-04 SWL 3t 14 days Thu 05/05/22 Wed 18/05/22 0 days 708,709 712 712 712 5.20.8.2.2.5 7 days Thu 19/05/22 Wed 25/05/22 57 days 708,709,710,711 715 T&C, Loading Test for Lifting Appliances 713 **713 5.20.8.2.3** 359 days Thu 05/05/22 Fri 28/04/23 0 days 704FS+45 edays 725SS Mechanical Installations for E&M Equip. at MFB No. 2 Lower Part 714 ME - E x 4~6 men 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 675 715 5.20.8.2.3.2 90 days Fri 22/07/22 Wed 19/10/22 ME - A x 4~6 men Installation of hollow fibre membrane modules (x9), EOT023 191 days 657,712 716 716 5.20.8.2.3.3 90 days Tue 02/08/22 Sun 30/10/22 0 days 660,666 720.717.718 ME - B x 4~6 men Installation of air scour blowers (x3), EQT040 717 717 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 MF - A x 4~6 men 0 days 716 718 718 5.20.8.2.3.5 Installation of return activated sludge pumps (x5), EQT010 90 days Mon 31/10/22 Sat 28/01/23 720 ME - B x 4~6 men 719 719 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 - C x 4~6 mer 720 720 5.20.8.2.3.7 Installation of pipework and valves, EQT036 90 days Sun 29/01/23 Fri 28/04/23 0 days 716,717,718,719,6724FF ME - C x 4~6 men 721 721 5.20.8.2.3.8 60 days Thu 05/05/22 Sun 03/07/22 299 days 669 ME - D x 2~4 men Installation of chemical storage tank, EQT025 722 60 days Thu 05/05/22 Sun 03/07/22 722 5.20.8.2.3.9 Installation of chemical dosing pumps, EQT026 299 days 672 ME - D x 2~4 men 723 723 5.20.8.2.3.10 90 days Thu 05/05/22 Tue 02/08/22 ME - C x 4~6 men Installation of plant service water system 269 days 724 724 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 ME - D x 2~4 men 725 725 5.20.8.2.4 Electrical Installations for E&M Equip. at MFB No. 2 Lower Part 150 days Thu 05/05/22 Sat 01/10/22 237 days 713SS 726 726 5.20.8.2.4.1 150 days Thu 05/05/22 Sat 01/10/22 751 Installation of cable trays and cable containments 727 727 5.20.8.3 Tentative Civil Handover Date, Portion B-5B, MFB No. 2 remaining portion (Rev. 5) 1 day Wed 17/08/22 Wed 17/08/22 0 days 730,739FS+45 eday 728 728 5.20.8.4 Commencement of E&M Installation at MFB No. 2 Upper Part 532 days Thu 18/08/22 Wed 31/01/24 0 days 727 729 729 5.20.8.4.1 Provision of Temporary Water Supply, Electricity Supply, Lighting, Welfare facilities etc., 7 days Thu 18/08/22 Wed 24/08/22 0 days 727 730 730 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 727,681 731 731 5.20.8.4.2.1 GF EOT Crane LA-04-05 SWL 5t 45 days Thu 18/08/22 Sat 01/10/22 733.734.738 LA - A x 4~6 men 0 days 732 733,734,738 732 5.20.8.4.2.2 GF Gantry Crane LA-04-06 SWL 6t 45 days Thu 18/08/22 Sat 01/10/22 0 days LA - B x 4~6 men 733 733 5.20.8.4.2.3 1F EOT Crane LA-04-07 SWL 15t 45 days Sun 02/10/22 Tue 15/11/22 0 days 731.732 735.736.737.738 LA - A x 4~6 men 734 734 5.20.8.4.2.4 1F EOT Crane LA-04-08 SWL 15t 45 days Sun 02/10/22 Tue 15/11/22 735,736,737,738 LA - B x 4~6 men 0 days 731,732 735 735 5.20.8.4.2.5 45 days Wed 16/11/22 Fri 30/12/22 738 RF EOT Crane LA-04-09 SWL 2t 0 days 733.734 LA - A x 4~6 men 736 736 5.20.8.4.2.6 RF Retractable MR LA-04-10 SWL 2t 45 days Wed 16/11/22 Fri 30/12/22 0 days 733,734 738 LA - B x 4~6 men 737 737 5.20.8.4.2.7 Mobile A-frame LA-04-11 SWL 2t 7 days Wed 16/11/22 Tue 22/11/22 38 days 733,734 738 LA - C x 4~6 men 738 738 5.20.8.4.2.8 T&C, Loading Test for Lifting Appliances 7 days Sat 31/12/22 Fri 06/01/23 0 days 731,732,733,734,7740 LA - A x 4~6 men 739 739 5.20.8.4.3 Mechanical Installations for E&M Equip. at MFB No. 2 Upper Part 377 days Sun 02/10/22 Fri 13/10/23 0 days 727FS+45 edays 744SS+45 edays,76 740 740 5.20.8.4.3.1 100 days Sat 07/01/23 Sun 16/04/23 741.743 ME - A x 4~6 men Installation of air scour blowers (x3) 0 days 738 741 741 5.20.8.4.3.2 60 days Mon 17/04/23 Thu 15/06/23 Installation of compressed air system (x1) 160 days 740 ME - B x 4~6 men Milestone Proiect Summary Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04 Date: Tue 26/01/21



Status Date Wed 20/01/21

Proposed Work Programme for DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

AECO

Task Name Duration Start Float Time Resource Names Predecessors between Task Half 1, 2021 Half 2, 2021 tart and Finish 742 60 days Sun 02/10/22 Wed 30/11/22 742 5 20 8 4 3 3 Installation of instrumentations, EOT035-1 357 days 52 MF - D x 2~4 men 743 743 5.20.8.4.3.4 Site Acceptance Tests - mechanical aspects including alignment and levels checks, leal 180 days Mon 17/04/23 Fri 13/10/23 40 days 740 ME - D x 2~4 men 744 744 5.20.8.4.4 Electrical Installations for E&M Equip. at MFB No. 2 Upper Part 300 days Wed 16/11/22 Mon 11/09/23 32 days 739SS+45 edays 760 745 745 5.20.8.4.4.1 Installation of LV Switchboards, BR2 90 days Wed 16/11/22 Mon 13/02/23 LV - B x 4~6 men 0 days 685 752 746 5.20.8.4.4.2 Installation of LV Switchboards, MFB No. 2 90 days Wed 16/11/22 Mon 13/02/23 0 days 688 752 LV - A x 4~6 men 747 5.20.8.4.4.3 90 days Wed 16/11/22 Mon 13/02/23 Installation of PLC Panels, BR2 0 days 699 752,756 748 748 5.20.8.4.4.4 90 days Wed 16/11/22 Mon 13/02/23 PLC - B x 1 man Installation of PLC Panels, MFR No. 2 282 days 702 749 749 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 - A x 4~6 men 750 750 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 695 751 751 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 726 752 752 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 1 day Wed 30/08/23 Wed 30/08/23 LA - A x 4~6 men Energisation of LV Switchboards, MFB 84 days 754 754 5.20.8.4.4.10 60 days Fri 14/07/23 Mon 11/09/23 LV - A x 4~6 men 32 days 752 760 Site Acceptance Tests - Electrical aspects including voltage and current tests, equipme 755 755 5.20.8.4.5 131 days Fri 14/07/23 Tue 21/11/23 SCADA Systems, BR No. 1 & No 2, MFB No. 2 31 days 756 756 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 757 757 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 752 758 761,587,1262 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 756 759 759 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 30 edays Fri 13/10/23 Sun 12/11/23 28.63 edays 739.744.754.724 761 Site Acceptance Test for E&M Equip at MFB No. 2 761 761 5.20.8.4.7 0 days 758,760,770,759,7762 System Commissioning for E&M Equip at MFB No. 2 45 days Mon 11/12/23 Wed 24/01/24 762 762 5.20.8.4.8 Risk Allowances for Completion of Processing Plant at MFB No. 2 7 edays Wed 24/01/24 Wed 31/01/24 7.63 edays 761 763 763 5.20.8.4.9 330 days Sun 15/01/23 Sun 10/12/23 12 days 727FS+150 edays,6 **Building Services Installations for MFB No. 2** 764 764 5.20.8.4.9.1 120 days Sun 15/01/23 Sun 14/05/23 770 MVAC - A x 4~6 mer Mechanical Ventilation and Air Conditioning System, MFB No. 2 90 days 765 765 5.20.8.4.9.2 Lighting and Power Distribution System, MFB No. 2 210 days Sun 15/01/23 Sat 12/08/23 770 BS - A x 4~6 men 0 days 766 766 5.20.8.4.9.3 180 days Sun 15/01/23 Thu 13/07/23 Plumbing Installation, MFB No. 2 1231,770 Pb - B x 4~6 men 30 days 1229 767 767 5.20.8.4.9.4 90 days Sun 15/01/23 Fri 14/04/23 CCTV Installation (10 indoor + 3 outdoor Cameras), MFB No. 2 120 days 727FS+120 days 770.1261 BS - B x 4~6 men 768 768 5.20.8.4.9.5 Fire Services Installation, MFB No. 2 120 days Sun 15/01/23 Sun 14/05/23 90 days 1182,1194,1195,77(FS - B x 4~6 men 769 769 5.20.8.4.9.6 Earthing and Lightning Protection System, MFB No. 2 60 days Sun 15/01/23 Wed 15/03/23 315 days BS - C x 2~4 men 770 770 5.20.8.4.9.7 Testing and Commissioning of Building Services Installations, MFB No. 2 120 days Sun 13/08/23 Sun 10/12/23 0 days 764,765,766,767,7761 BS - C x 2~4 men 771 **771 5.21** 1351 days Tue 21/07/20 Mon 01/04/24 Chemical System No. 1 and No. 2, Portion B-7 & B-7B (PS 6B.2.3) 0 days KD1B, Chemical 6 01/06 772 772 5.21.1 0 days Tue 01/06/21 Tue 01/06/21 Planned Key Date Completion Date - KD1B, Chem Sys No. 1 & 2 0 days 789FF,790FF **@**12/07 773 773 5.21.2 0 days Mon 12/07/21 Mon 12/07/21 0 days 791FF.792FF.793FF Planned Sectional Completion Date - Section 1. Chem Sys No. 1 & 2 774 774 5 21 3 0 days Mon 01/04/24 Mon 01/04/24 Planned Sectional Completion Date - Section 2, Chem Sys No. 1 & 2 0 days 820FF 775 775 5.21.4 Selection of Suppliers for major plant and materials for Chemical Systems 240 days Thu 01/10/20 Fri 28/05/21 776 776 5.21.4.1 Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQT025 240 days Thu 01/10/20 Fri 28/05/21 0 days 777 777 5.21.4.1.1 Submission for acceptance of purchasing package 60 days Thu 01/10/20 Sun 29/11/20 0 days 778 778 778 5.21.4.1.2 Invitation of quotations for purchasing package 30 days Mon 30/11/20 Tue 29/12/20 0 days 777 779 779 30 days Wed 30/12/20 Thu 28/01/21 791 779 5.21.4.1.3 30 days 778 Acceptance of conforming quotation 780 780 5.21.4.2 150 days Thu 01/10/20 Sat 27/02/21 Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQT027 45 days 781 781 5.21.4.2.1 Submission for acceptance of purchasing package 60 days Thu 01/10/20 Sun 29/11/20 0 days 782 782 782 5.21.4.2.2 Invitation of quotations for purchasing package 60 days Mon 30/11/20 Thu 28/01/21 783 0 days 781 783 783 5.21.4.2.3 30 days Fri 29/01/21 Sat 27/02/21 791,792,793 Acceptance of conforming quotation 784 784 5.21.4.3 Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026 120 days Thu 01/10/20 Thu 28/01/21 75 days 785 785 5.21.4.3.1 60 days Thu 01/10/20 Sun 29/11/20 786 Submission for acceptance of purchasing package 0 days 786 786 5.21.4.3.2 787 Invitation of quotations for purchasing package 30 days Mon 30/11/20 Tue 29/12/20 0 days 785 787 787 5.21.4.3.3 Acceptance of conforming quotation 30 days Wed 30/12/20 Thu 28/01/21 30 days 786 791 788 788 5.21.5 324 days Tue 21/07/20 Thu 10/06/21 Design Submissions for Chemical System No. 1 and No. 2 33 days 789 772FF 789 5.21.5.1 Electrical schematic drawings for Chemical Systems No. 1 and No. 2 60 days Tue 21/07/20 Fri 18/09/20 790 790 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 davs 772FF 791 791 5.21.5.3 90 edays Sat 27/02/21 Fri 28/05/21 CDS006 - Detailed Design for Chemical Dosing System 0.63 edays 779,783,787 797,800,803,773FF 792 792 5.21.5.4 90 edays Sat 27/02/21 Fri 28/05/21 810.773FF CDS027 - Detailed Design for Electrical Installations for Chemical System No. 1 45 edays 783 793 793 5.21.5.5 CDS028 - Detailed Design for Electrical Installations for Chemical System No. 2 90 edays Sat 27/02/21 Fri 28/05/21 45 edays 783 810.773FF 794 794 5.21.5.6 CDS034-5 - Detailed Design for Electrical Installations BS at Chemical Systems 90 edays Fri 12/03/21 Thu 10/06/21 32.38 edays 133 810,773FF 795 795 5.21.6 Manufacturing and Delivery of Plant & Materials 296 days Sat 29/05/21 Sun 20/03/22 796 5.21.6.1 Chemical Storage Tanks, EQT025 225 days Sat 29/05/21 Sat 08/01/22 488 days 797 797 5.21.6.1.1 180 days Sat 29/05/21 Wed 24/11/21 798 Manufacturing and Factory Acceptance Test of Plant 0 days 791 798 798 5.21.6.1.2 Shipping and Delivery of Plant to site 45 days Thu 25/11/21 Sat 08/01/22 809 73 days 797 Milestone Proiect Summary Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04 Date: Tue 26/01/21

Drainage Services Department Task Name

Chemical Dosing Pumps, EOT027

Chemical Transfer Pumps, EQT026

Site Installation Work

Shipping and Delivery of Plant to site

Shipping and Delivery of Plant to site

Manufacturing and Factory Acceptance Test of Plant

Manufacturing and Factory Acceptance Test of Plant

Tentative Civil Handover Date, Portion B-7 & B-7B (Rev. 5)

Tentative Civil Handover Date, Chemical Pipe Trench (by others)

cement of E&M Installation at Chemical Dosing System 1 and System 2

799 5.21.6.2

800 5.21.6.2.1

801 5.21.6.2.2

802 5.21.6.3

803 5.21.6.3.1

804 5.21.6.3.2

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807 5 21 7 2

808 5.21.7.3

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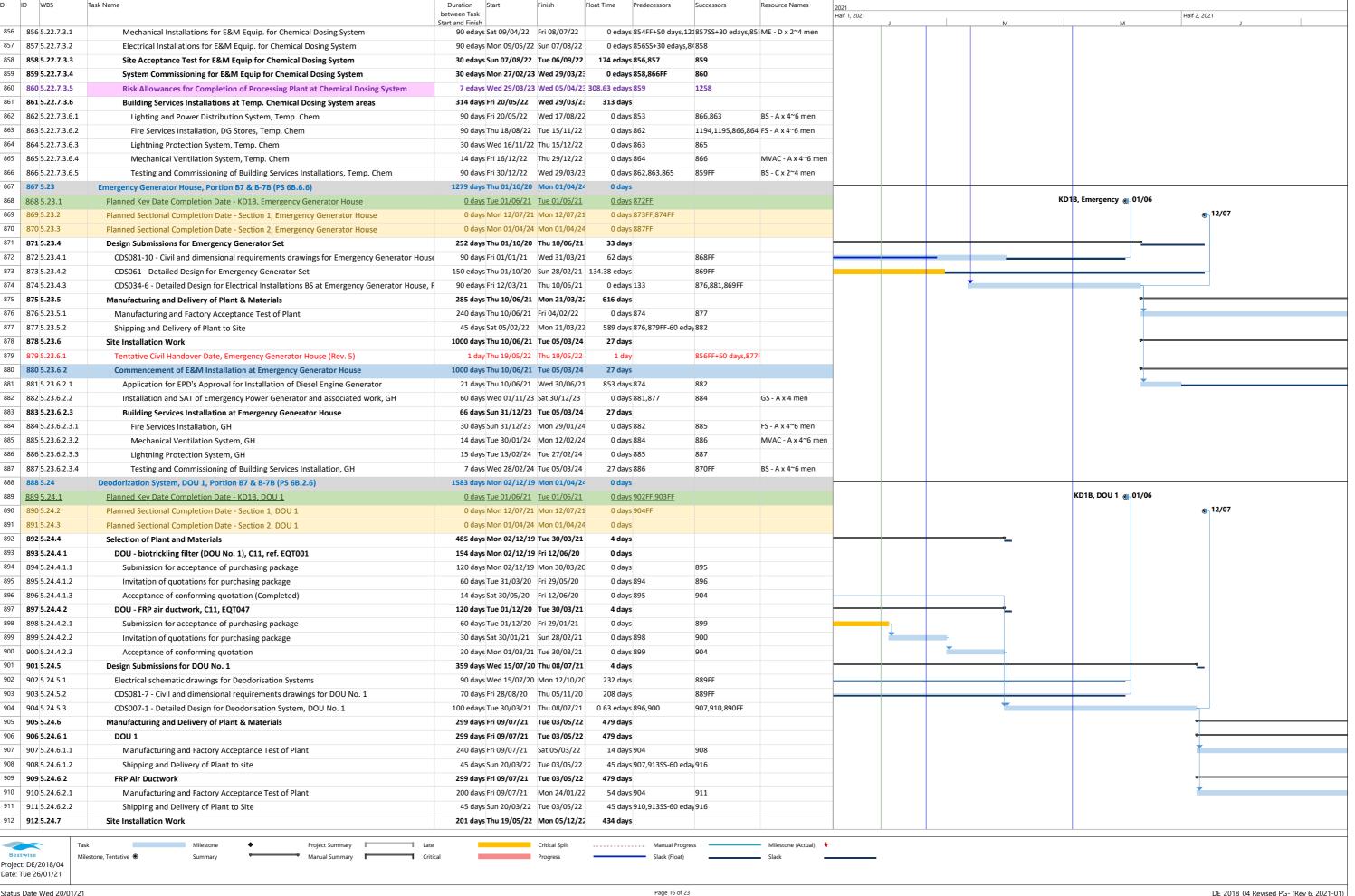
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AECOM Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities Duration Start Float Time Predecessors between Task Half 1, 2021 Half 2, 2021 art and Finish 296 days Sat 29/05/21 Sun 20/03/22 417 days 180 days Sat 29/05/21 Wed 24/11/21 71 days 791 2 days 800,806FF-60 eday809 45 days Fri 04/02/22 Sun 20/03/22 296 days Sat 29/05/21 Sun 20/03/22 417 days 180 days Sat 29/05/21 Wed 24/11/21 71 days 791 45 days Fri 04/02/22 Sun 20/03/22 2 days 803,806FF-60 eday809 307 days Tue 22/03/22 Mon 23/01/23 415 days 1 day Thu 19/05/22 Thu 19/05/22 0 davs 804FF-60 edays.801 33 days 1 day Sun 01/05/22 Sun 01/05/22 809FF+50 days 307 days Tue 22/03/22 Mon 23/01/2: 90 edays Tue 22/03/22 Mon 20/06/22 0 edays 807FF+50 days,804810 ME - D x 2~4 men 90 edays Mon 20/06/22 Sun 18/09/22 0.63 edays 809.792.793.794 811.819 45 days Mon 19/09/22 Wed 02/11/22 0 days 810 812 45 days Thu 03/11/22 Sat 17/12/22 813 0 days 811 7 edays Sat 17/12/22 Sat 24/12/22 410.63 edays 812 1258 249 days Fri 20/05/22 Mon 23/01/2: BS - B x 4~6 men 120 days Fri 20/05/22 Fri 16/09/22 9 days 806 820 120 days Fri 20/05/22 Fri 16/09/22 9 days 806 1194,1195,1185,82(FS - A x 4~6 men 30 days Fri 20/05/22 Sat 18/06/22 820 99 days 806 820 14 days Fri 20/05/22 Thu 02/06/22 MVAC - A x 4~6 men 115 days 806 7 days Mon 19/09/22 Sun 25/09/22 0 days 810 820 Pb - A x 4~6 men 120 days Mon 26/09/22 Mon 23/01/23 434 days 815,816,819,818,8774FF BS - C x 2~4 men 1344 days Tue 28/07/20 Mon 01/04/24 KD1B. Chemical at 01/06 <u>0 days Tue 01/06/21</u> <u>Tue 01/06/21</u> 0 days 839FF,840FF **@** 12/07 0 days Mon 12/07/21 Mon 12/07/21 0 days 841FF 0 days Mon 01/04/24 Mon 01/04/24 0 days 150 days Thu 01/10/20 Sat 27/02/21 668 days 120 days Thu 01/10/20 Thu 28/01/21 75 days 60 days Thu 01/10/20 Sun 29/11/20 828 0 days 30 days Mon 30/11/20 Tue 29/12/20 0 days 827 829 30 days Wed 30/12/20 Thu 28/01/21 0 days 828 841,844 150 days Thu 01/10/20 Sat 27/02/21 668 days 60 days Thu 01/10/20 Sun 29/11/20 832 0 days 60 days Mon 30/11/20 Thu 28/01/21 0 days 831 833 30 days Fri 29/01/21 Sat 27/02/21 0 days 832 847 120 days Thu 01/10/20 Thu 28/01/21 698 days 60 days Thu 01/10/20 Sun 29/11/20 0 davs 836 30 days Mon 30/11/20 Tue 29/12/20 837 0 days 835 30 days Wed 30/12/20 Thu 28/01/21 850 0 days 836 275 days Tue 28/07/20 Wed 28/04/21 75 days 60 days Tue 28/07/20 Fri 25/09/20 822FF 249 days 70 days Fri 28/08/20 Thu 05/11/20 822FF 90 edays Thu 28/01/21 Wed 28/04/21 857,823FF 75 edays 829 416 days Fri 29/01/21 Sun 20/03/22 507 days 416 days Fri 29/01/21 Sun 20/03/22 507 davs 180 days Fri 29/01/21 Tue 27/07/21 191 days 829 45 days Fri 04/02/22 Sun 20/03/22 20 days 844,853FF-60 eday856 386 days Sun 28/02/21 Sun 20/03/22 507 days 180 days Sun 28/02/21 Thu 26/08/21 161 days 833 45 days Fri 04/02/22 Sun 20/03/22 20 days 847,853FF-60 eday856 416 days Fri 29/01/21 Sun 20/03/22 507 davs 180 days Fri 29/01/21 Tue 27/07/21 191 days 837 45 days Fri 04/02/22 Sun 20/03/22 20 days 850,853FF-60 eday856 361 days Sat 09/04/22 Wed 05/04/2: 313 days 1 day Thu 19/05/22 Thu 19/05/22 0 days 845FF-60 edays,848

809 5.21.7.3.1 Mechanical Installations for E&M Equip. for Chemical Dosing System 810 810 5.21.7.3.2 Electrical Installations for E&M Equip. for Chemical Dosing System 811 811 5.21.7.3.3 Site Acceptance Test for E&M Equip for Chemical Dosing System 812 812 5.21.7.3.4 System Commissioning for E&M Equip for Chemical Dosing System 813 813 5.21.7.3.5 Risk Allowances for Completion of Processing Plant at Chemical Dosing System 814 814 5.21.7.3.6 **Building Services Installations at Chemical Dosing System areas** 815 815 5.21.7.3.6.1 Lighting and Power Distribution System, Chem 1&2 816 5.21.7.3.6.2 Fire Services Installation, DG Stores 817 817 5.21.7.3.6.3 Lightning Protection System, Chem 1&2 818 818 5.21.7.3.6.4 Mechanical Ventilation System, Chem 2 819 819 5.21.7.3.6.5 Plumbing Installation, Chem 1 820 820 5.21.7.3.6.6 Testing and Commissioning of Building Services Installations, Chem 1&2 821 821 5.22 Temporary Chemical Dosing System, Portion B7 & B-7B (PS 6B.2.3) 822 822 5.22.1 Planned Key Date Completion Date - KD1B, Temp. Chem Dosing Sys 823 823 5.22.2 Planned Sectional Completion Date - Section 1, Temp. Chem Dosing Sys 824 824 5.22.3 Planned Sectional Completion Date - Section 2, Temp. Chem Dosing Sys 825 825 5.22.4 Selection of Suppliers for major plant and materials for Temp. Chemical Dosing System 826 826 5.22.4.1 Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQT025 827 827 5.22.4.1.1 Submission for acceptance of purchasing package 828 828 5.22.4.1.2 Invitation of quotations for purchasing package 829 5.22.4.1.3 Acceptance of conforming quotation 830 830 5.22.4.2 Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQT027 831 831 5 22 4 2 1 Submission for acceptance of purchasing package 832 832 5.22.4.2.2 Invitation of quotations for purchasing package 833 833 5.22.4.2.3 Acceptance of conforming quotation 834 834 5.22.4.3 Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026 835 835 5.22.4.3.1 Submission for acceptance of purchasing package 836 836 5.22.4.3.2 Invitation of quotations for purchasing package 837 837 5.22.4.3.3 Acceptance of conforming quotation 838 838 5.22.5 Design Submissions for Temporary Chemical Dosing System 839 839 5.22.5.1 Electrical schematic drawings for Temporary Chemical Dosing System 840 840 5.22.5.2 CDS081-6 - Civil and dimensional requirements drawings for Temporary Chemical Dosing S 841 841 5.22.5.3 CDS029 - Detailed Design for Electrical Installations for Temporary Chemical System 842 5.22.6 Manufacturing and Delivery of Plant & Materials 843 843 5.22.6.1 Chemical Storage Tanks, EOT025 844 844 5.22.6.1.1 Manufacturing and Factory Acceptance Test of Plant 845 845 5.22.6.1.2 Shipping and Delivery of Plant to site 846 846 5.22.6.2 Chemical Dosing Pumps, EQT027 847 847 5.22.6.2.1 Manufacturing and Factory Acceptance Test of Plant 848 5.22.6.2.2 Shipping and Delivery of Plant to site 849 849 5.22.6.3 Chemical Transfer Pumps, EQT026 850 850 5.22.6.3.1 Manufacturing and Factory Acceptance Test of Plant 851 851 5.22.6.3.2 Shipping and Delivery of Plant to site 852 852 5.22.7 Site Installation Work 853 853 5.22.7.1 Tentative Civil Handover Date, Temporary Chemical Dosing (Rev. 5) 854 854 5.22.7.2 Tentative Civil Handover Date, Chemical Pipe Trench (by others) 1 day Sun 01/05/22 Sun 01/05/22 51 days 856FF+50 days 855 **855 5.22.7.3** Commencement of E&M Installation at Temporary Chemical Dosing System 361 days Sat 09/04/22 Wed 05/04/2: 313 days Milestone Project Summary Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04 Date: Tue 26/01/21 Page 15 of 23 DE\_2018\_04 Revised PG- (Rev 6, 2021-01) Drainage Services Department

AECON Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities



Orainage Sei	ervices Department lines (corp Special Allementrative Region	Shek Wu Hui Fffluent	Proposed Work Programme Polishing Plant - Main Works Stage		ewage Treatment Facili	ities				AEC
O WBS	Task Name	Duration Start Finish	Float Time Predecessors	Successors	Resource Names	2021				
		between Task Start and Finish				Half 1, 2021	J	М	М	Half 2, 2021
913 5.24.7	7.1 Tentative Civil Handover, DOU 1 (Rev. 5)	1 day Thu 19/05/22 Thu 19/05/2	2 0 days	916FF+45 days,90	85					
914 5.24.7	7.2 Tentative Civil Handover Date, underground air pipework for DOU 1 (by ot	hers) 1 day Mon 01/08/22 Mon 01/08/	22 30 days	916FF+45 days						
915 5.24.7	7.3 Commencement of E&M Installation at DOU 1	171 days Fri 17/06/22 Mon 05/12/	22 434 days							
916 5.24.7	7.3.1 Mechanical Installations for DOU 1	90 edays Fri 17/06/22 Thu 15/09/2	2 0 edays 914FF+45 days,93	13917SS+30 edays,9	18ME - F x 4~6 men					
917 5.24.7	7.3.2 Electrical Installations for DOU 1	90 edays Sun 17/07/22 Sat 15/10/22	0 edays 916SS+30 edays	918						
918 5.24.7	7.3.3 Site Acceptance Test for DOU1	30 edays Sat 15/10/22 Mon 14/11/	22 0 edays 916,917	919						
19 5.24.7	7.3.4 System Commissioning for DOU 1	21 edays Mon 14/11/22 Mon 05/12/	22 429.63 edays 918	1258						
920 5.25	Deodorization System, DOU 2A, Portion B-4 (PS 6B.2.6)	1583 days Mon 02/12/19 Mon 01/04/	2 <sup>2</sup> 0 days							
21 5.25.	Planned Key Date Completion Date - KD1B, DOU 2A	<u>0 days Tue 01/06/21</u> Tue 01/06/2	<u>0 days</u>						KD1B, DOU 2 🌘 01/06	
922 5.25.2	Planned Sectional Completion Date - Section 1, DOU 2A	0 days Mon 12/07/21 Mon 12/07/	21 0 days 930FF							<b>6</b> 12/07
923 5.25.3	Planned Sectional Completion Date - Section 2, DOU 2A	0 days Mon 01/04/24 Mon 01/04/	24 0 days							
924 5.25.4	4 Selection of Plant and Materials	194 days Mon 02/12/19 Fri 12/06/20	0 days							
925 5.25.4	4.1 DOU - activated carbon filter (DOU No. 2A, No. 3A, No. 3B), C11, ref. EQT	028 194 days Mon 02/12/19 Fri 12/06/20	0 days							
926 5.25.4	4.1.1 Submission for acceptance of purchasing package	120 days Mon 02/12/19 Mon 30/03/	2C 0 days	927						
927 5.25.4		60 days Tue 31/03/20 Fri 29/05/20	0 days 926	928						
928 5.25.4		14 days Sat 30/05/20 Fri 12/06/20		930,951,972						
29 5.25.5		200 days Tue 01/09/20 Sat 20/03/2		. ,						
30 5.25.5		200 edays Tue 01/09/20 Sat 20/03/2:		933,936,922FF						
31 5.25.6	, ,	345 days Sat 20/03/21 Sun 27/02/2								
932 5.25.6		345 days Sat 20/03/21 Sun 27/02/2	-			_		•		
933 5.25.6		300 days Sat 20/03/21 Thu 13/01/2		934		_		<u> </u>		
934 5.25.6		45 days Fri 14/01/22 Sun 27/02/2		941		_				
	Pr O · · · · · · · · · · · · · · · · · ·			941		_				
35 5.25.6		345 days Sat 20/03/21 Sun 27/02/2		007		_				
36 5.25.6	, , ,	300 days Sat 20/03/21 Thu 13/01/2		937						
37 5.25.6	,, ,	45 days Fri 14/01/22 Sun 27/02/2		941						
938 5.25.7		1 day Thu 23/02/23 Thu 23/02/2	·							
939 5.25.8		231 days Thu 23/02/23 Thu 12/10/2								
940 5.25.8		231 days Thu 23/02/23 Thu 12/10/2	3 123 days 560							
941 5.25.8	8.1.1 Mechanical Installations for DOU 2A	90 edays Thu 23/02/23 Wed 24/05/	23 0 edays 934,937	942	ME - F x 4~6 men					
42 5.25.8	8.1.2 Electrical Installations for DOU 2A	90 edays Wed 24/05/23 Tue 22/08/2	3 0 edays 941	943						
943 5.25.8	8.1.3 Site Acceptance Test for E&M Equip for DOU 2A	30 edays Tue 22/08/23 Thu 21/09/2	3 0 edays 962,963,942	944						
944 5.25.8	8.1.4 System Commissioning Test for DOU 2A	21 edays Thu 21/09/23 Thu 12/10/2	3 118.63 edays 943	1258						
945 5.26	Deodorization System, DOU 3A, Portion B7 & B-7B (PS 6B.2.6)	1313 days Fri 28/08/20 Mon 01/04/	24 0 days				1			
946 5.26.	<u>Planned Key Date Completion Date - KD1B, DOU 3A</u>	<u>0 days Tue 01/06/21</u> <u>Tue 01/06/2</u>	<u>0 days 950FF</u>						KD1B, DOU 3A € 01/06	
947 5.26.2	Planned Sectional Completion Date - Section 1, DOU 3A	0 days Mon 12/07/21 Mon 12/07/	21 0 days 951FF							<b>€</b> 12/07
948 5.26.3	Planned Sectional Completion Date - Section 2, DOU 3A	0 days Mon 01/04/24 Mon 01/04/	24 0 days							
49 5.26.4	4 Design Submissions for DOU No. 3A	234 days Fri 28/08/20 Mon 19/04/	21 85 days				+		•	
50 5.26.4	4.1 CDS081-8 - Civil and dimensional requirements drawings for DOU No. 3A	200 days Fri 28/08/20 Mon 15/03/	21 78 days	946FF						
51 5.26.4	4.2 CDS007-3 - Detailed Design for Deodorisation System, DOU No. 3A	200 edays Thu 01/10/20 Mon 19/04/	0 edays 928	954,957,947FF					<u> </u>	
952 5.26.5	5 Manufacturing and Delivery of Plant & Materials	225 days Mon 19/04/21 Tue 30/11/2	1 634 days							
953 5.26.5	5.1 DOU 3A	225 days Mon 19/04/21 Tue 30/11/2	1 634 days							
54 5.26.5		180 edays Mon 19/04/21 Sat 16/10/2		955					<b>†</b>	
55 5.26.5	· · ·	45 edays Sat 16/10/21 Tue 30/11/2		962						
56 5.26.5		225 days Mon 19/04/21 Tue 30/11/2							•	
57 5.26.5		180 edays Mon 19/04/21 Sat 16/10/2:		958					+	
58 5.26.5		45 edays Sat 16/10/21 Tue 30/11/2		962						
59 5.26.6		1 day Thu 19/05/22 Thu 19/05/2				-				
60 5.26.7		171 days Tue 30/11/21 Fri 20/05/22				-				
61 5.26.7		171 days Tue 30/11/21 Fri 20/05/22								
62 5.26.7		120 edays Tue 30/11/21 Wed 30/03/		96355+30 edays 0	64ME - F x 4~6 men					
					O-INIE - I A 4 U IIIEII	-				
63 5.26.7		90 edays Thu 30/12/21 Wed 30/03/				_				
64 5.26.7	·	30 edays Wed 30/03/22 Fri 29/04/22		965		_				
65 5.26.7		21 edays Fri 29/04/22 Fri 20/05/22		1258						
66 5.27	Deodorization System, DOU 3B, Portion B-5B (PS 6B.2.6)	1265 days Thu 15/10/20 Mon 01/04/								
67 5.27.1				982FF+30 days,97	65				Landa Barras Contract	
968 5.27.2		0 days Tue 01/06/21 Tue 01/06/2							KD1B, DOU 3B ⊕ 01/06	
969 5.27.3	Planned Sectional Completion Date - Section 1, DOU 3B	0 days Mon 12/07/21 Mon 12/07/	21 0 days 972FF						1	<b>€</b> 12/07

Drainage Services The Government of the Hong Kong Se	Department  Noted Administrations Region	Shek Wu Hui Effluent Po	Proposed Work Programm Dishing Plant - Main Works Stage		wage Treatment Facili	ties			A
ID WBS	Task Name	Duration Start Finish between Task	Float Time Predecessors	Successors	Resource Names	2021 Half 1, 2021			Half 2, 2021
070 5 27 4		Start and Finish	O dave			11811 1, 2021	J	М	M J
970 5.27.4	Planned Sectional Completion Date - Section 2, DOU 3B	0 days Mon 01/04/24 Mon 01/04/24							_
971 5.27.5	Design Submissions for DOU No. 3B	200 days Thu 15/10/20 Mon 03/05/21		075 070 06055					
972 5.27.5.1 973 5.27.6	CDS007-4 - Detailed Design for Deodorisation System, DOU No. 3B  Manufacturing and Delivery of Plant & Materials	200 edays Thu 15/10/20 Mon 03/05/21 471 days Mon 03/05/21 Wed 17/08/22		975,978,969FF					
974 5.27.6.1	DOU 3B	471 days Mon 03/05/21 Wed 17/08/22							
975 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					
976 5.27.6.1.2	Shipping and Delivery of Plant to Site	60 edays Sat 18/06/22 Wed 17/08/22							
977 5.27.6.2	FRP Air Ductwork	456 days Mon 03/05/21 Tue 02/08/22		,					
978 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					-
979 5.27.6.2.2	Shipping and Delivery of Plant to Site	45 edays Sat 18/06/22 Tue 02/08/22	15 edays 978,967SS-60 ed						
980 5.27.7	Site Installation Work	171 days Wed 17/08/22 Sat 04/02/23	374 days						
981 5.27.7.1	Commencement of E&M Installation at DOU 3B	171 days Wed 17/08/22 Sat 04/02/23	374 days						
982 5.27.7.1.1	Mechanical Installations for DOU 3B	120 edays Wed 17/08/22 Thu 15/12/22	0 edays 967FF+30 days,9	76983SS+30 edays,98	4ME - F x 4~6 men				
983 5.27.7.1.2	Electrical Installations for DOU 3B	90 edays Fri 16/09/22 Thu 15/12/22	0 edays 982SS+30 edays	984					
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 3B	21 edays Sat 14/01/23 Sat 04/02/23	369 edays 984	1258					
986 5.28	Flowmeter and Valve Chambers, Portion B7 & B-7B (PS 6B.2.13)	1278 days Sun 01/11/20 Wed 01/05/24	0 days						
987 <u>5.28.1</u>	Planned Key Date Completion Date - KD1B, Chambers	0 days Tue 01/06/21 Tue 01/06/21	<u>0 days 992FF</u>						KD1B, Chamber € 01/06
988 5.28.2	Planned Sectional Completion Date - Section 1, Chambers	0 days Mon 12/07/21 Mon 12/07/21	0 days 993FF						<b>€</b> 12/07
989 5.28.3	Planned Sectional Completion Date - Section 2, Chambers	0 days Mon 01/04/24 Mon 01/04/24	0 days						
990 5.28.4	Planned Sectional Completion Date - Section 4, Chambers	0 days Wed 01/05/24 Wed 01/05/24	0 days						
991 5.28.5	Design Submissions for Valve and Flowmeter Chambers	210 days Sun 01/11/20 Sat 29/05/21	44 days						-
992 5.28.5.1	CDS081-9 - Civil and dimensional requirements drawings for Valve and Flowmeter Chamb $\varepsilon$	90 days Mon 01/03/21 Sat 29/05/21	3 days	987FF				_	_
993 5.28.5.2	CDS018 - Detailed Design for Flowmeter and Valve Chambers	90 edays Sun 01/11/20 Sat 30/01/21	0 edays	995,988FF					
994 5.28.6	Manufacturing and Delivery of Plant & Materials	225 days Sat 30/01/21 Sat 11/09/21	734 days				•		
995 5.28.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sat 30/01/21 Wed 28/07/21	0 days 993	996			The second second		
996 5.28.6.2	Shipping and Delivery of Plant to Site	45 days Thu 29/07/21 Sat 11/09/21	0 days 995	1000					<u> </u>
997 5.28.7	Tentative Civil Handover, Chambers (Rev. 5)	1 day Thu 19/05/22 Thu 19/05/22	0 days						
998 5.28.8	Site Installation Work	150 days Sun 12/09/21 Tue 08/02/22	-						
999 5.28.8.1	Commencement of Valves and Flowmeters Installation at Chambers	150 days Sun 12/09/21 Tue 08/02/22							
000 5.28.8.1.1	Installation of valves and flowmeters	90 days Sun 12/09/21 Fri 10/12/21	0 days 996	1001	ME - C x 4~6 men				
001 5.28.8.1.2	cables laying and terminations	60 days Sat 11/12/21 Tue 08/02/22		1258	EE - A x 4~6 men				
002 5.29	Underground Pipework, Modification and Connection Works, Portion B-9B (PS 6B.2.22)	1161 days Mon 01/03/21 Sat 04/05/24	0 days						KD18 IIII ~ 01/06
03 5.29.1	Planned Key Date Completion Date - KD1B, UU  Planned Gerbinal Completion Date - Series 1 Hedgewood Pingungle	0 days Tue 01/06/21 Tue 01/06/21	0 days 1007FF						KD1B, UU <b>®</b> 01/06
004 5.29.2	Planned Sectional Completion Date - Section 1, Underground Pipework	0 days Mon 12/07/21 Mon 12/07/21							<b>©</b> 12/07
005 5.29.3	Planned Sectional Completion Date - Section 4, Underground Pipework	0 days Wed 01/05/24 Wed 01/05/24							
<b>006 5.29.4</b> 007 5.29.4.1	Design Submissions  CDS015 Detailed Design for Underground Discoverk Medification and Connection with the	90 days Mon 01/03/21 Sun 30/05/21		1003FF		_			_
007 5.29.4.1	CDS015 - Detailed Design for Underground Pipework Modification and Connection with th CDS016 - Detailed Design for Temporary Pumping System for maintaining the existing bior	90 edays Mon 01/03/21 Sun 30/05/21 50 edays Mon 01/03/21 Tue 20/04/21		1010,1004FF		-			_
008 5.29.4.2	Manufacturing and Delivery of Plant & Materials	1079 days Tue 20/04/21 Tue 02/04/24		1010,1004FF		-			
010 5.29.5.1	Manufacturing and Factory Acceptance Test of Plant	180 days Tue 20/04/21	854 days 1008	1011		-		<u></u>	
010 5.29.5.1	Shipping and Delivery of Plant to Site	45 days Sun 18/02/24 Tue 02/04/24				-			
012 5.29.6	Tentative Civil Handover, Road (Rev. 5)	1 day Thu 18/04/24 Thu 18/04/24		1011SS-60 edays,10		-			
013 5.29.7	Site Installation	16 days Fri 19/04/24 Sat 04/05/24	0 days	32 22 200,5,10		-			
014 5.29.7.1	Commencement of underground pipework modification and connection works	16 days Fri 19/04/24 Sat 04/05/24	0 days						
15 5.29.7.1.1	Temporary Flow Diversion and Road Excavation Work	3 days Fri 19/04/24 Sun 21/04/24		1016					
16 5.29.7.1.2	Pipe Laying and connection works	7 days Mon 22/04/24 Sun 28/04/24		1017		-			
017 5.29.7.1.3	Pressure Tests	3 days Mon 29/04/24 Wed 01/05/24		1018		-			
18 5.29.7.1.4	Make Good	3 days Thu 02/05/24 Sat 04/05/24	0 days 1017	1005FF		-			
19 5.30	Temporary Filtrate Lifting Well and Eq. Tank, Portion B-3B (PS 6B.2.16)	450 days Mon 02/03/20 Tue 25/05/21				-			
20 5.30.1	Selection of Suppliers for major plant and materials and Civil Subcontractor for Temporary	196 days Mon 02/03/20 Sun 13/09/20							
	Mis - filtrate lift pumps and filtrate transfer pumps, C11, ref. EQT011	73 days Mon 02/03/20 Wed 13/05/20							
າ21 5.30.1.1	ivis - incrate inc pullips and incrate cransier pullips, C11, rei. EQ1011	75 44 /5							
<b>021 5.30.1.1</b> 022 5.30.1.1.1	Submission for acceptance of purchasing package	29 days Mon 02/03/20 Mon 30/03/20		1023		_			

1024 1024 5.30.1.1.3 Acceptance of conforming quotation and acceptance for Manufacture (Completed) 14 days Thu 30/04/20 Wed 13/05/20 0 days 1023 1025 **1025 5.30.1.2** Mis - Instrumentations 73 days Mon 02/03/20 Wed 13/05/20 0 days 1026 1026 5.30.1.2.1 Submission for acceptance of purchasing package 29 days Mon 02/03/20 Mon 30/03/20 0 days 1027 Project Summary Late Critical Split Manual Progress ■ Milestone (Actual) ★ Task Milestone Manual Summary Critical Project: DE/2018/04 Date: Tue 26/01/21 Page 18 of 23 DE\_2018\_04 Revised PG- (Rev 6, 2021-01) Status Date Wed 20/01/21



Proposed Work Programme for DE/2018/04

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

AECON

Task Name Duration Start Float Time Predecessors between Task Half 1, 2021 Half 2, 2021 Start and Finish 1027 1027 5.30.1.2.2 30 days Tue 31/03/20 Wed 29/04/20 Invitation of quotations for purchasing package 0 days 1026 1028 1028 1028 5.30.1.2.3 Acceptance of conforming quotation and acceptance for Manufacture (Completed) 14 days Thu 30/04/20 Wed 13/05/20 0 days 1027 1043,1049 1029 1029 5.30.1.3 Mis - Pipework (To be provided by Mechanical Sub-Contactor) 42 days Mon 03/08/20 Sun 13/09/20 0 days 1030 1030 5.30.1.3.1 7 days Mon 03/08/20 Sun 09/08/20 1031 Submission for acceptance of purchasing package 0 days 1031 1031 5.30.1.3.2 Invitation of quotations for purchasing package 14 days Mon 10/08/20 Sun 23/08/20 0 days 1030 1032 1032 1032 5.30.1.3.3 21 days Mon 24/08/20 Sun 13/09/20 1043,1052 Acceptance of conforming quotation and acceptance for Manufacture 0 days 1031 1033 1033 5.30.1.4 42 days Mon 03/08/20 Sun 13/09/20 Mis - Valve (To be provided by Mechanical Sub-Contractor) 0 davs 1034 1034 5.30.1.4.1 Submission for acceptance of purchasing package 7 days Mon 03/08/20 Sun 09/08/20 0 davs 1035 1035 1035 5.30.1.4.2 Invitation of quotations for purchasing package 14 days Mon 10/08/20 Sun 23/08/20 0 days 1034 1036 1036 1036 5.30.1.4.3 Acceptance of conforming quotation and acceptance for Manufacture 21 days Mon 24/08/20 Sun 13/09/20 0 days 1035 1043,1055 1037 **1037 5.30.1.5** Civil Work Subletting Package (Repeated WBS 5.13.17) 19 days Tue 14/07/20 Sat 01/08/20 0 days 1038 1038 5.30.1.5.1 Submission for acceptance of subletting package 3 days Tue 14/07/20 Thu 16/07/20 1039 0 days 1039 1039 5.30.1.5.2 14 days Fri 17/07/20 Thu 30/07/20 1040 0 days 1038 Invitation of tender for subletting package 2 days Fri 31/07/20 Sat 01/08/20 1040 1040 5.30.1.5.3 1046.1049.1052.10 0 days 1039 Acceptance of conforming quotation and acceptance for Manufacture 1041 **1041 5.30.2** Design Submissions for Temporary Filtrate Lifting Well and Eq. Tank 34 days Tue 01/09/20 Sun 04/10/20 199 days 1042 1042 5.30.2.1 CDS050-5 - Detailed Design for Lifting Appliances - Temp. Filtrate Eq. System, Existing Slud 30 edays Tue 01/09/20 Thu 01/10/20 1071 163 edays 113 1043 1043 5.30.2.2 0 days 1024,1028,1032,1(1045,1051,1048,10 Design submission for E&M Installation works for temp. filtrate eq. system 21 days Mon 14/09/20 Sun 04/10/20 1044 1044 5.30.3 Manufacturing and Delivery of Plant & Materials 165 days Mon 05/10/20 Thu 18/03/21 16 days 1045 1045 5.30.3.1 Filtrate Lift Pumps and Filtrate Transfer Pump, EOT011 165 days Mon 05/10/20 Thu 18/03/21 16 days 1043 1046 1046 5.30.3.1.1 1047 120 days Mon 05/10/20 Mon 01/02/21 0 days 1040.1024 Manufacturing and Factory Acceptance Test of Plant 1047 1047 5.30.3.1.2 1076 Shipping and Delivery of Plant to site 45 days Tue 02/02/21 Thu 18/03/21 14 days 1046 1048 1048 5.30.3.2 165 days Mon 05/10/20 Thu 18/03/21 16 days 1043 1049 1049 5.30.3.2.1 120 days Mon 05/10/20 Mon 01/02/21 0 days 1040,1028 1050 Manufacturing and Factory Acceptance Test of Plant 1050 1050 5.30.3.2.2 Shipping and Delivery of Plant to site 45 days Tue 02/02/21 Thu 18/03/21 0 days 1049 1077 1051 1051 5.30.3.3 165 days Mon 05/10/20 Thu 18/03/21 2 days 1043 Pipework 1052 1052 5.30.3.3.1 120 days Mon 05/10/20 Mon 01/02/21 1053 Manufacturing and Factory Acceptance Test of Plant 0 days 1040.1032 1053 1053 5.30.3.3.2 Shipping and Delivery of Plant to site 45 days Tue 02/02/21 Thu 18/03/21 0 days 1052 1075 1054 1054 5.30.3.4 165 days Mon 05/10/20 Thu 18/03/21 2 days 1043 Valve 1055 1055 5.30.3.4.1 120 days Mon 05/10/20 Mon 01/02/21 0 days 1040,1036 1056 Manufacturing and Factory Acceptance Test of Plant 1056 1056 5.30.3.4.2 45 days Tue 02/02/21 Thu 18/03/21 Shipping and Delivery of Plant to site 0 days 1055 1075 1057 1057 5.30.4 Site Installation Work 297 days Sat 01/08/20 Tue 25/05/21 99 days 1058 1058 5.30.4.1 Commencement of Civil Construction and E&M Installation at Temp. Filtrate Lifting Well 297 days Sat 01/08/20 Tue 25/05/21 99 days 1059 1059 5.30.4.1.1 297 days Sat 01/08/20 Tue 25/05/21 Civil Construction Work 99 days 1060 1060 5.30.4.1.1.1 Civil on-site survey and report submission for acceptance 5 edays Sat 01/08/20 Thu 06/08/20 0 edays 1040 1061,1062 1061 1061 5.30.4.1.1.2 Civil structural design and drawing submission for acceptance 30 days Fri 07/08/20 Sat 05/09/20 0 days 1060 1063 1062 1062 5.30.4.1.1.3 Site Clearance, UU diversion and construction of U-channel 21 days Fri 07/08/20 Thu 27/08/20 0 days 1060 1063 1063 1063 5.30.4.1.1.4 60 days Sun 06/09/20 Wed 04/11/20 0 days 1062.1061 1064 ELS (Sheeting and Excavation) 1064 1064 5.30.4.1.1.5 60 days Thu 05/11/20 Sun 03/01/21 Grouting Works 0 days 1063 1065 1065 1065 5.30.4.1.1.6 60 days Mon 04/01/21 Thu 04/03/21 0 days 1064 1074.1071.1066 RC structure works including cast-in items 1066 1066 5.30.4.1.1.7 1071.1072.1075.10 Removal Formwork and Flasework 8 days Fri 05/03/21 Fri 12/03/21 0 days 1065 1067 1067 5.30.4.1.1.8 Waterproofing 14 days Sat 13/03/21 Fri 26/03/21 0 days 1066 1068 1068 1068 5.30.4.1.1.9 60 days Sat 27/03/21 Tue 25/05/21 1085FF Other architectual works and finishing works 99 days 1067 1069 1069 5.30.4.1.2 34 days Sat 13/03/21 Thu 15/04/21 8 days 1070 1070 5.30.4.1.2.1 10 days Sat 13/03/21 Mon 22/03/21 Installation of Lifting Appliances at Temporary Filtrate Lifting Well and Eq. Tank 40 days 1074 1074 5.30.4.1.2.2 21 days Fri 19/03/21 Thu 08/04/21 1078FS-30 days Mechanical Installations for Temp. Filtrate Lifting Well and Eq. Tank 2 days 1065 1078 1078 5.30.4.1.2.3 Electrical Installations for Temp. Filtrate Lifting Well and Eq. Tank 34 days Sat 13/03/21 Thu 15/04/21 2 days 1074FS-30 days 1081 1081 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 22/04/21 0 days 1080 1082 1082 1082 5.30.4.1.4 System Commissioning for E&M Equip at Temp. Filtrate Lifting Well and Eq. Tank 1108FF 7 days Fri 23/04/21 Thu 29/04/21 2 days 1081 1083 **1083 5.31** Existing PST No. 4 and No. 6, Portion B-3A (PS 6B.2.15) 397 days Sat 01/08/20 Wed 01/09/21 0 days 1084 1084 5.31.1 KD3B. Ext PST4&6 @ 07/06 Planned Key Date Completion Date - KD3B 0 days Mon 07/06/21 Mon 07/06/21 0 days 1143FF 1085 1085 5.31.2 Planned Sectional Completion Date - Section 3, PST No. 4 and No. 6 @ 01/09 0 days 1068FF.1169FF 0 days Wed 01/09/21 Wed 01/09/21 1086 1086 5.31.3 Selection of Suppliers for major plant and materials and Subcontractor for PST No. 4 and N 137 days Sat 01/08/20 Tue 15/12/20 76 days 1087 **1087 5.31.3.1** Mis - Rotating Bridge Scrapers and associated materials, C11, ref. EQT037-1 42 days Sat 01/08/20 Fri 11/09/20 0 days 1088 1088 5.31.3.1.1 Submission for acceptance of purchasing package 7 days Sat 01/08/20 Fri 07/08/20 0 days 1089 1089 1089 5.31.3.1.2 Invitation of quotations for purchasing package 14 days Sat 08/08/20 Fri 21/08/20 0 days 1088 1090 1090 1090 5.31.3.1.3 Acceptance of conforming quotation (Completed) 21 days Sat 22/08/20 Fri 11/09/20 1100 0 days 1089 1091 1091 5.31.3.2 Mis - Pipework, C11, ref. EQT037-2 42 days Sat 01/08/20 Fri 11/09/20 0 days Milestone Project Summary Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04 Date: Tue 26/01/21

Task Name

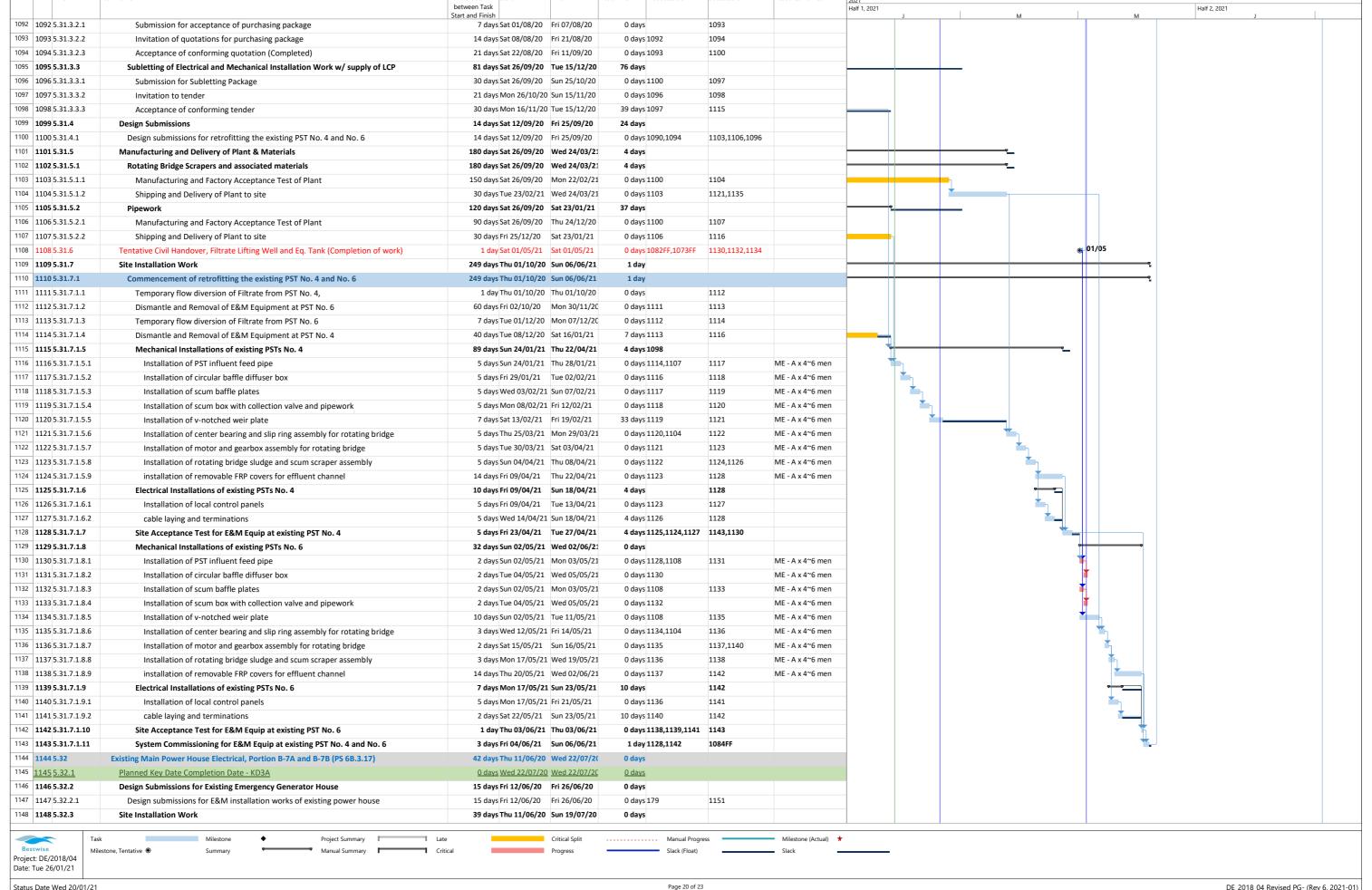
WBS

Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

Float Time

Duration Start

AECOM



Drainage Services De The Government of the Hong Kong Special:	spartment Administrative Region		Shek W	/u Hui Effluent			amme for DE/2018/04 Stage 1 E&M Works for Sev	vage Treatment Facil	ities			A
ID WBS		Duration S between Task Start and Finish	Start	Finish	Float Time	Predecessors	Successors	Resource Names	2021 Half 1, 2021			Half 2, 2021
1149 5.32.3.1	Tentative Civil Handover Date, Portion B-7A & 7B area for modification of existing emerge		Γhu 11/06/20	Thu 11/06/2	0 0 da	iys					IVI IVI	J
1150 5.32.3.2	Commencement of Modification of existing emergency generator Electrical Works	23 days	Sat 27/06/20	Sun 19/07/2	.0 0 da	iys						
1151 5.32.3.2.1	Site survey and preparation work	1 day	Sat 27/06/20	Sat 27/06/20	0 da	rys 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 da	ys 1151	1153					
1153 5.32.3.2.3	Test the new switchboard for on-site mobile generator	2 days	Wed 01/07/20	0 Thu 02/07/2	0 0 da	ys 1152	1154					
1154 5.32.3.2.4	Dismantling and removal the existing power & control cables	14 days I	ri 03/07/20	Thu 16/07/2	0 0 da	ys 1153	1155					
1155 5.32.3.2.5	Take down existing generator to DSD (Completed)	3 days l	ri 17/07/20	Sun 19/07/2	0 0 da	ys 1154						
1156 5.33	Existing Sludge Press House, Portion B-10 (PS 6B.2.11)			0 Sun 29/08/2								·
1157 5.33.1	Planned Key Date Completion Date - KD3B	0 days I	Mon 07/06/2:	1 Mon 07/06/							KD3B, Ext SPH	⊕ 07/06
1158 5.33.2	Selection of Suppliers for major plant and materials for Filter Presses			0 Fri 21/08/20								
1159 5.33.2.1	Mis - new replacement filter plates and provision of filter cloths, C11, ref. EQT038			0 Fri 21/08/20								
1160 5.33.2.1.1	Submission for acceptance of purchasing package			0 Tue 21/07/2			1161					
1161 5.33.2.1.2	Invitation of quotations for purchasing package			0 Fri 31/07/20		ys 1160	1162					
1162 5.33.2.1.3	Acceptance of conforming quotation (Completed)			Fri 21/08/20		ys 1161	1163					
1163 5.33.3	Design submission for replacement of filter plates			Fri 28/08/20		iys 1162	1165					
1164 5.33.4	Manufacturing and Delivery of Plant & Materials			Sun 08/08/2								<u>-</u>
1165 5.33.4.1	Manufacturing and Factory Acceptance Test of Plant	- '		Thu 24/06/2		ys 1163	1166					
1166 5.33.4.2	Shipping and Delivery of Plant to site			Sun 08/08/2		ys 1165	1169					
1167 5.33.5	Site Installation Work			1 Sun 29/08/2								*
1168 5.33.5.1	Commencement of replacement of filter plates			1 Sun 29/08/2			405===					•
1169 5.33.5.1.1	Replacement of filter plates			1 Sun 29/08/2		ys 1166	1085FF					·
1170 5.34	Fire Services Installation (PS 6B.6.9)			Wed 01/05/							VD4D F	04 (05
1171 5.34.1	Planned Key Date Completion Date - KD1B, Fire			1 Tue 01/06/		ys 1175FF					KD1B, Fire €	
1172 5.34.2	Planned Sectional Completion Date - Section 1, FSI			1 Mon 12/07/		ys 1176FF						<b>@</b> 12/07
1173 5.34.3	Planned Sectional Completion Date - Section 4, FSI			4 Wed 01/05/		ys 1191FF						
1174 5.34.4	Design Submissions for FSI			Sat 30/10/2								
1175 5.34.4.1	CDS081-11 - Civil and dimensional requirements drawings for Fire Services Sprinkler Pump			Tue 30/03/2			1171FF					
1176 5.34.4.2	CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkler etc.			1 Sat 30/10/2		iys 154	1180,1177,1172FF					
1177 5.34.5	DG Stores Submissions to FSD for approval			Sun 27/02/2		ays 1176	1186FF					
1178 5.34.6	Site Installation Work			Sat 27/04/2								
1179 5.34.6.1	Commencement of Fire Services Installation			Sat 27/04/2								
1180 5.34.6.1.1	Design Review of Approved General Building Plan			Sat 05/03/2		iys 1176	1181					
1181 5.34.6.1.2	Submission of WW0542 for WSD's approval			Wed 30/11/		ays 1180	1182					
1182 5.34.6.1.3	Submission of WWO46 for WSD's Inspection			Sun 05/11/2		iys 1181,353,48						
1183 5.34.6.1.4	Obtain WWO46 Part V			3 Thu 04/01/2		iys 1182	1186,1184					
1184 5.34.6.1.5	FSD Inspection and Approval for MVAC			Thu 25/01/2		ys 1194,1195,1			_			
1185 5.34.6.1.6	FSD Inspection and Approval for DG Stores			3 Tue 26/12/2		ays 1194,1195,8						
1186 5.34.6.1.7	Submission of (FSI/314 & FSI/501) to FSD			Thu 18/01/2		ys 1194,1195,1			_			
1187 5.34.6.1.8	Pre-inspection meeting with FSD			Tue 30/01/2		rys 1186,1184,1			_			
1188 5.34.6.1.9	Initial Inspection with FSD			4 Wed 14/02/		ys 1187	1189		_			
1189 5.34.6.1.10	Document Checking  Poliscoperiors with ECD			Sat 30/03/24		ys 1188	1190		_			
1190 5.34.6.1.11 1191 5.34.6.1.12	Re-inspections with FSD  Issue of acceptance memo by FSD			Sat 13/04/2		ys 1189 ys 1190	1191 1173FF		_			
1191 5.34.6.1.12	Installation of FS Pumps and Sprinkler Pumps			Sat 27/04/24 3 Thu 01/06/2			11/3FF	FS - A x 4~6 men	_			
1192 5.34.6.1.13	Installation of FS Pumps and Sprinkler Pumps  Installation of Fire Hydrant and Booster Pumps			3 Thu 01/06/2			1195	FS - A x 4~6 men				
1193 5.34.6.1.14	SAT for Manual and automatic fire detection and alarm system			Tue 05/12/2			,768,81186,1184,1185	. J - A A O IIIEII	_			
1194 5.34.6.1.15	SAT for Fire hydrants, hose reels and street fire hydrant system			Tue 05/12/2			53,48,1186,1184,1185		_			
1196 5.35	Fire Services Sprinkler Pumping Room, Portion B-7 & B-7B (PS 6B.6.9)			Thu 13/07/2			55,7021100,1104,1103					
1197 5.35.1	Site Installation Work			Thu 13/07/2								
1197 5.35.1	Tentative Civil Handover Date, FS Sprinkler Pump Room (Rev. 5)			Thu 19/05/2			1199,1204		_			
1199 5.35.1.2	Commencement of E&M Installation at FS & Sprinkler Pump Room			Thu 13/03/2		ıys 1198						
1200 5.35.1.2.1	Mechanical Installations for FS & Sprinkler Pumps			Wed 17/08/			1201					
1200 5.35.1.2.1	Electrical Installations for FS & Sprinkler Pumps			2 Tue 15/11/2			1202,1205,1206,12		-			
1201 5.35.1.2.2	Site Acceptance Test for FS & Sprinkler Pumps			2 Fri 30/12/22		rys 1200 rys 1201	1203		_			
1202 5.35.1.2.3	System Commissioning for FS & Sprinkler Pumps			Mon 13/02/		ays 1201	1186					
1203 5.35.1.2.4	Building Services Installations at FS & Sprinkler Pump Room			2 Thu 13/07/2		iys 1202						
1205 5.35.1.2.5.1	Lighting and Power Distribution System, Chem 1&2			2 Wed 15/03/		ys 1201	1208					
	Eigeneing and Corton Statistical System, chair Lazz					,,,				<u> </u>		
Tas	sk Milestone $lacktriangle$ Project Summary Late			Critical Split		Manual	Progress	Milestone (Actual)	*			
stwise Mil				Progress		Slack (Fl						

Drainage Services De	partment substitution for the substitution of	Shek Wu Hui Effl	uent Polisł	Proposed Work Programme hing Plant - Main Works Stage		wage Treatment Facilit	ties							AECO
ID WBS	Task Name	Duration Start Finish between Task	Flo	pat Time Predecessors	Successors	Resource Names	2021					11.15.2.2024		
206 1206 5 25 1 2 5 2	Lightning Protection System FS 9 Swinkler Dump Doom	Start and Finish	/12/22	00 days 1201	1200		Half 1, 2021		M		M	Half 2, 2021	J	
06   1206 5.35.1.2.5.2 07   1207 5.35.1.2.5.3	Lightning Protection System, FS & Sprinkler Pump Room  Mechanical Ventilation System, FS & Sprinkler PR	30 days Wed 16/11/22 Thu 15/ 14 days Wed 16/11/22 Tue 29/		90 days 1201 106 days 1201	1208 1208									
08 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/			1186FF									
9 1209 5.36	Fire Hydrant and Booster Pumping Room, Portion B7 & B-7B (PS 6B.6.9)	465 days Thu 19/05/22 Sat 26/		156 days	110011									
0 1210 5.36.1	Site Installation Work	465 days Thu 19/05/22 Sat 26/		156 days										
1 1211 5.36.1.1	Tentative Civil Handover Date, Fire Hydrant and Booster Pumping Room (Rev. 5)	1 day Thu 19/05/22 Thu 19/		0 days	856FF+50 days,121	15								
2 1212 5.36.1.2	Commencement of E&M Installation at Street FH Pump Room	464 days Thu 19/05/22 Sat 26/		156 days										
3 1213 5.36.1.2.1	Mechanical Installations for Street FH Pumps	90 edays Thu 19/05/22 Wed 17	7/08/22	0 edays 1211	1214									
4 1214 5.36.1.2.2	Electrical Installations for Street FH Pump	90 edays Wed 17/08/22 Tue 15/	/11/22	0.63 edays 1213	1215,1218									
5 1215 5.36.1.2.3	Site Acceptance Test for Street FH Pump	45 days Wed 16/11/22 Fri 30/1	12/22	0 days 1214	1216									
6 1216 5.36.1.2.4	System Commissioning for Street FH Pumps	45 days Sat 31/12/22 Mon 13	3/02/23	339 days 1215	1186FF									
7 1217 5.36.1.2.5	Building Services Installations at Street FH Pump Room	284 days Wed 16/11/22 Sat 26/	08/23	156 days										
8 1218 5.36.1.2.5.1	Lighting and Power Distribution System, Street FH PR	120 days Wed 16/11/22 Wed 15	5/03/23	0 days 1214	1221,1219		7							
9 1219 5.36.1.2.5.2	Lightning Protection System, Street FH PR	30 days Thu 16/03/23 Fri 14/0	04/23	0 days 1218	1220,1221									
0 1220 5.36.1.2.5.3	Mechanical Ventilation System, Street FH PR	14 days Sat 15/04/23 Fri 28/0	04/23	0 days 1219	1221	MVAC - A x 4~6 men	1							
1 1221 5.36.1.2.5.4	Testing and Commissioning of Building Services Installations, FH PR	120 days Sat 29/04/23 Sat 26/	08/23	145 days 1218,1219,1220	1186FF									
2 <b>1222 5.37</b>	Plumbing Installation (PS 6B.6.8)	1049 days Tue 16/02/21 Tue 02/	/01/24	0 days				•						
23 1223 5.37.1	Planned Sectional Completion Date - Section 1, Plumbing	0 days Thu 01/07/21 Thu 01/	/07/21	0 days 1225FF								© 01/07		
4 1224 5.37.2	Design Submissions for Plumbing	134 days Tue 16/02/21 Wed 30	0/06/21	1 day								<u>.</u>		
5 1225 5.37.2.1	CDS033 - Detailed Design for Plumbing System	134 edays Tue 16/02/21 Wed 30		0.63 edays 149	1228,1223FF									
6 1226 5.37.3	Site Installation Work	915 days Thu 01/07/21 Tue 02/	/01/24	0 days								•		
1227 5.37.3.1	Commencement of Plumbing Installation	915 days Thu 01/07/21 Tue 02/		0 days										
8 1228 5.37.3.1.1	Submission of detail design for acceptance	90 days Thu 01/07/21 Tue 28/		0 days 1225	1229	Pb - A x 4~6 men						•		
9 1229 5.37.3.1.2	Submission of WWO542 for WSD's approval	355 days Wed 29/09/21 Sun 18/		118 days 1228	351,480,591,766	Pb - B x 4~6 men								
0 1230 5.37.3.1.3	Connection of External Pumping System (By others)	0 days Fri 15/09/23 Fri 15/0		17 days	1231									
1 1231 5.37.3.1.4	Submission of WWO46 for WSD's Inspection	45 days Mon 02/10/23 Wed 15		0 days 1230,351,480,591										
2 1232 5.37.3.1.5	Obtain WWO46 Part V	45 days Thu 16/11/23 Sat 30/		2 days 1231	1233									
3 1233 5.37.3.1.6 4 <b>1234 5.38</b>	Tentative Date for connection of external water pipework (by others)	0 days Tue 02/01/24 Tue 02/		0 days 1232										
5 1235 5.38.1	Photovoltaic Power System (PS 6B.6.11)	1128 days Mon 01/03/21 Mon 01		0 days 0 days 1245FF				·				@L12/0	7	
6 1236 5.38.2	Planned Sectional Completion Date - Section 1, BR 2A & 2B	0 days Mon 12/07/21 Mon 12 0 days Mon 01/04/24 Mon 01		0 days 1253FF								( 12/0	•	
7 1237 5.38.3	Planned Sectional Completion Date - Section 2, BR 2A & 2B  Selection of Suppliers for major plant and materials for BR 2A & 2B	73 days Mon 01/03/21 Wed 12		12 days										
8 1238 5.38.3.1	PV System (EQT041)	73 days Mon 01/03/21 Wed 12		12 days							_			
9 1239 5.38.3.1.1	Submission for acceptance of purchasing package	30 days Mon 01/03/21 Tue 30/		0 days	1240									
0 1240 5.38.3.1.2	Invitation of quotations for purchasing package	21 days Wed 31/03/21 Tue 20/		0 days 1239	1241				<u> </u>	Ь				
1 1241 5.38.3.1.3	Acceptance of conforming quotation	21 days Wed 21/04/21 Tue 11/		0 days 1240	1242									
2 1242 5.38.3.1.4	Commencement of Design Work	1 day Wed 12/05/21 Wed 12		0 days 1241	1244									
3 1243 5.38.4	Design Submissions	49 days Wed 12/05/21 Wed 30		12 days						•				
4 1244 5.38.4.1	CDS060 - Detailed Design for PV System	45 edays Wed 12/05/21 Sat 26/		0.63 edays 1242	1245									
5 1245 5.38.4.2	Complete the CLP's Electronic Application Form and Upload Required Documents	4 days Sun 27/06/21 Wed 30		0 days 1244	1235FF,1247							<u>+</u>		
16 1246 5.38.5	Material ordering and delivery to site	767 days Thu 01/07/21 Sun 06/		59 days								•		
7 1247 5.38.5.1	Manufacturing and Factory Acceptance Test of Plant	150 days Thu 01/07/21 Sat 27/		572 days 1245	1248							+		
8 1248 5.38.5.2	Shipping and Delivery of Plant to site	45 days Fri 23/06/23 Sun 06/		0 days 1247,1250SS+120										
9 1249 5.38.6	Site Installation Work	345 days Thu 23/02/23 Fri 02/0	02/24	0 days										
0 1250 5.38.6.1	Tentative Civil Handover Date, Portion B-4, BR2A & 2B (Rev. 5)	1 day Thu 23/02/23 Thu 23/	/02/23	0 days	1248SS+120 edays									
1 1251 5.38.6.2	Commencement of Site Installation Work	90 days Mon 07/08/23 Sat 04/	11/23	0 days 1248	1252	PV - A x 4~6 men								
2 1252 5.38.6.3	Technical Assessment, System Test and Installation	60 days Sun 05/11/23 Wed 03	3/01/24	0 days 1251	1253	PV - A x 4~6 men								
1253 5.38.6.4	CLP's smart meter installation and Final on-grid test with CLP	30 days Thu 04/01/24 Fri 02/0	02/24	59 days 1252	1236FF									
4 1254 5.39	Plant Commissioning	240 days Tue 12/09/23 Wed 08	3/05/24	0 days	39FF									
1255 5.39.1	Planned Sectional Completion Date - Section 4, Plant Commissioning	0 days Wed 01/05/24 Wed 01	1/05/24	0 days										
6 1256 5.39.2	Design Submission for Treatment Process Plant Testing & Commissioning	90 days Wed 01/11/23 Mon 29	9/01/24	105 days										
7 1257 5.39.2.1	Document Submission and Resubmission for T&C procedures	90 days Wed 01/11/23 Mon 29	9/01/24	105 days 1258FF-120 days										
8 1258 5.39.3	System Commissioning Tests of the E&M systems at IW, PST, BR 2A&2B, MFB No. 2, Chemic	7 days Thu 08/02/24 Wed 14	1/02/24	0 days 919,965,985,347,	4 1259,1257FF-120 c	da								
9 1259 5.39.4	MBR System Process Startup	35 days Thu 15/02/24 Wed 20	0/03/24	0 days 1258	1260									

1260 1260 5.39.5 35 days Thu 21/03/24 Wed 24/04/24 Plant Commissioning 0 days 1259 1261 1261 5.39.6 Overall commissioning of CCTV system 30 days Tue 12/09/23 Wed 11/10/23 196 days 352,481,592,767 1263 1262 1262 5.39.7 Overall commissioning of Facility Computerized Systems (SCADA, CMMS, PMS, IDMS) 28 days Mon 11/12/23 Sun 07/01/24 108 days 344,473,758,759 1263 Project Summary Late Task Critical Split Milestone Manual Progress Milestone (Actual) Manual Summary Critical Slack (Float) Project: DE/2018/04 Date: Tue 26/01/21 Page 22 of 23 Status Date Wed 20/01/21 DE\_2018\_04 Revised PG- (Rev 6, 2021-01)



Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

**AECOM** 

							Sewage Treatment Facili								
WBS	Task Name	Duration Start	Finish	Float Time	Predecessors	Successors	Resource Names	2021							
								Half 1, 2021	J	М		М	Half 2, 2021	J	
		14 days Thu 25/04/24	Wed 08/05/24												
54 5.40	CE No. 009 - Provision of an Additional Primary Sludge Thickening System	140 days Tue 14/07/20	Mon 30/11/2	0 day	rs										
55 5.40.1	Detail Design Submission and Approval	77 days Tue 14/07/20	Mon 28/09/20	18 day	rs .	1267									
56 5.40.2	Subletting, Procurement, Manufacturing and Delivery	120 days Fri 31/07/20	Fri 27/11/20	0 day	rs .										
57 5.40.3	Site Installation	40 days Sat 17/10/20	Wed 25/11/20	0 day	rs 1265	1268									
58 5.40.4	Testing and Commissioning	5 days Thu 26/11/20	Mon 30/11/20	0 day	rs 1267	1269FF									
59 5.40.5	Planned Completion Date	1 day Mon 30/11/20	Mon 30/11/20	0 day	rs 1268FF										
70 6	Beam Plus Submissions	1450 days Fri 01/05/20	Fri 19/04/24	0 day	rs .										
71 6.1	SA10 - Environmental Management Plan	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
72 6.2	SA11 - Air Pollution During Construction	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
73 6.3	SA12 - Noise During Construction	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
74 6.4	SA14 - Noise from Building Equipment	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
75 6.5	SA15 - Light Pollution	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
76 6.6	MAP1 - Timber used for Temporary Works	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
77 6.7	MAP2 - Use of Non-CFC Based Refrigerants	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs	39									
78 6.8	MAP3 - Waste Management Plan	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs	39									
79 6.9	MA2 - Modular and Standardized Design	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
30 6.10	MA8 - Ozone Depleting Substances	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
31 6.11	MA11 - Construction Waste Reduction	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
32 6.12	EUP1 - Minimum Energy Performance	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
33 6.13	EU1 - Reduction of CO2 Emissions	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
34 6.14	EU2 - Peak Electricity Demand Reduction	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
35 6.15	EU6 - Renewable Energy Systems	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
86 6.16	EU9 - Energy Efficient Appliances	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs	39									
37 6.17	EU10 - Testing and Commissioning	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
88 6.18	EU11 - Operation and Maintenance	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
39 6.19	EU12 - Meter and Monitoring	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
90 6.20	WUP1 - Water Quality Survey	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
91 6.21	WUP2 - Minimum Water Saving Performance	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
92 6.22	WU1 / WU6 - Annual Water Use / Effluent Discharge to Foul Sewers	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
93 6.23	IEQP1 - Minimum Ventilation Performance	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
94 6.24	IEQ1 - Security	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
95 6.25		1450 days Fri 01/05/20	Fri 19/04/24	19 day	/S	39									
96 6.26	-	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
97 6.27	-					39									
98 6.28	-	1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs .	39									
99 6.29		1450 days Fri 01/05/20	Fri 19/04/24	19 day	rs	39		_							
00 6.30	IEQ11 - Localised Ventilation														
01 6.31	IEQ12 - Ventilation in Common Areas														
02 6.32	·														
)4 7															
06 7.2															
	1 1 1														
								-							
11 7.7	Compensation Event (CE) No. 011, Dismantling, relocating, disconnecting and re-installing of the existing	1 day? Fri 17/07/20		0 days											
	35 5.39.8 36 5.40.1 36 5.40.2 37 5.40.3 38 5.40.4 39 5.40.5 30 6 31 6.1 32 6.2 33 6.3 44 6.4 35 6.5 36 6.6 37 6.7 38 6.8 39 6.9 30 6.10 31 6.11 32 6.12 33 6.13 34 6.14 35 6.15 36 6.16 37 6.17 38 6.18 39 6.19 30 6.20 31 6.31 32 6.22 33 6.23 34 6.24 35 6.25 36 6.26 37 6.27 38 6.28 39 6.29 30 6.30 31 6.31 32 6.32 33 6.33 34 7 35 7.1	35.39.8 Overall Plant Commissioning and DSD pre-handover inspections 45.40 CE No. 009 - Provision of an Additional Primary Studge Thickening System 55.40.1 Detail Design Submission and Approval 65.40.2 Subletting, Procurement, Manufacturing and Delivery 75.40.3 Site Installation 85.40.4 Testing and Commissioning 85.40.4 Testing and Commissioning 85.40.5 Planned Completion Date 86.6 Beam Plus Submissions 16.1 SAID - Environmental Management Plan 16.2 SAI1 - Air Pollution During Construction 16.1 SAI0 - Environmental Management Plan 16.2 SAI1 - Air Pollution During Construction 16.3 SAI2 - Noise Brom Building Equipment 16.5 SAI5 - Uight Pollution 16.6 MAP1 - Timber used for Temporary Works 16.7 MAP2 - Use of Non-CFC Based Refrigerants 16.8 MAP3 - Waste Management Plan 16.9 MA2 - Modular and Standardized Design 16.10 MA8 - Ozone Depleting Substances 16.11 MAI1 - Construction Waste Reduction 16.12 EUP1 - Minimum Energy Performance 16.13 EU1 - Reduction of CO2 Emissions 16.14 EU2 - Peak Electricity Demand Reduction 16.15 EU6 - Renewable Energy Systems 16.16 EU9 - Energy Efficient Appliances 16.17 EU10 - Testing and Commissioning 16.18 EU11 - Operation and Maintenance 16.19 EU12 - Mater and Monitoring 16.20 WUP1 - Water Quality Survey 16.21 WUP2 - Minimum Vater Saving Performance 16.22 WUP1 - Water Quality Survey 16.23 EIGQP - Innimum Vertilation Performance 16.24 IEQ1 - Security 16.25 EIGG - Floor - Inq 16.26 IEQ2 - Plumbing and Drainage 16.26 IEQ3 - Biological Contamination 16.21 IEQ9 - Increased Ventilation 16.31 IEQ16 - IleQ1 - Increased Ventilation 16.32 IEQ9 - Increased Ventilation 16.33 IEQ16 - IleQ1 - Interior Lighting in Normally Occupied Area / Interior Lighting in Areas not Nors 16.74 Summary of compensation events notified 16.74 Compensation Event (CE) No. 003, beginated Area for the Contractor's Site Accommodation in Works Area West (CE) No. 003, beginated Area for the Contractor's Site Accommodation in Works Area West (CE) No. 003, Designated Area for the Contractor's Site Accommodation in Works Area We		State	September   Table   Sept				Marchen   March   Ma	March   Marc	March   Section   Sectio		March   Marc	Control   Cont	Mathematical Control

