## **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		Ctataa		
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	DE/2018/04 703621912		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 Departing 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	✓	✓
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.

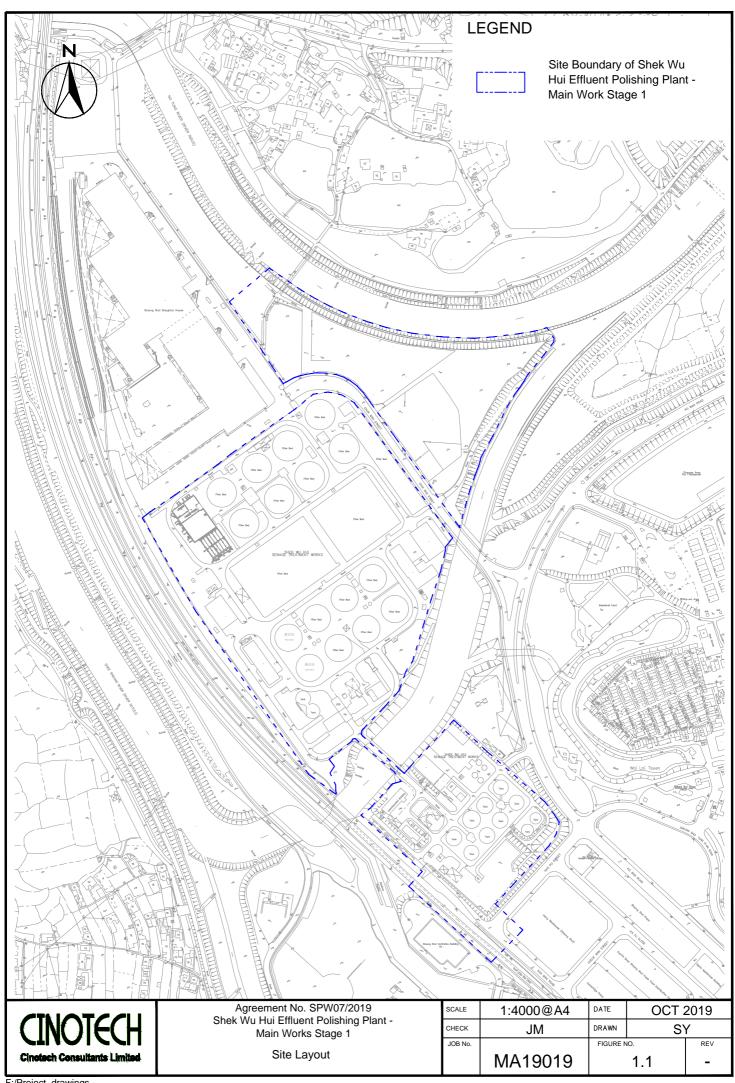
#### Water Quality

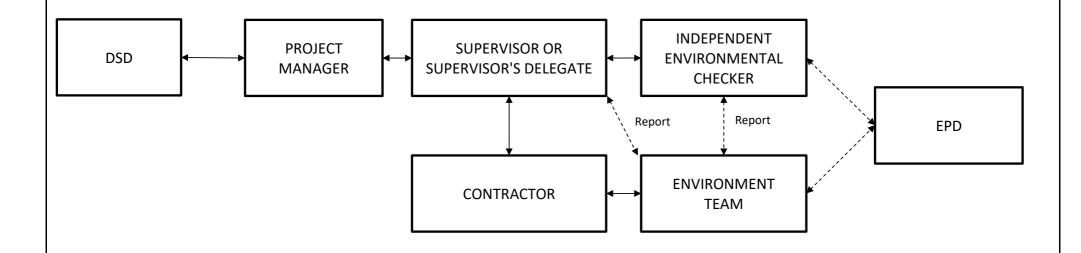
- Stagnant water should be removed and pumped through the sedimentation tank.
- Muddy water should not be discharged into the surrounding rivers.
- No slurry should be disposed of at the existing Shek Wu Hui Sewage Treatment Works.

#### Waste Management

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

**FIGURES** 



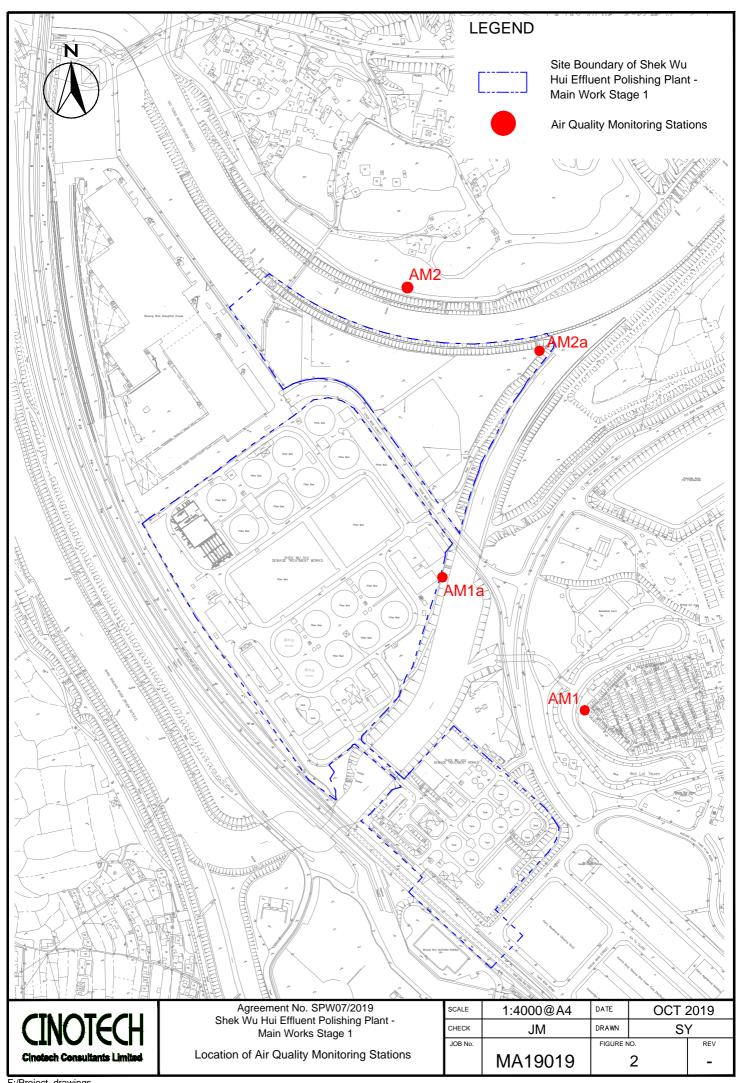


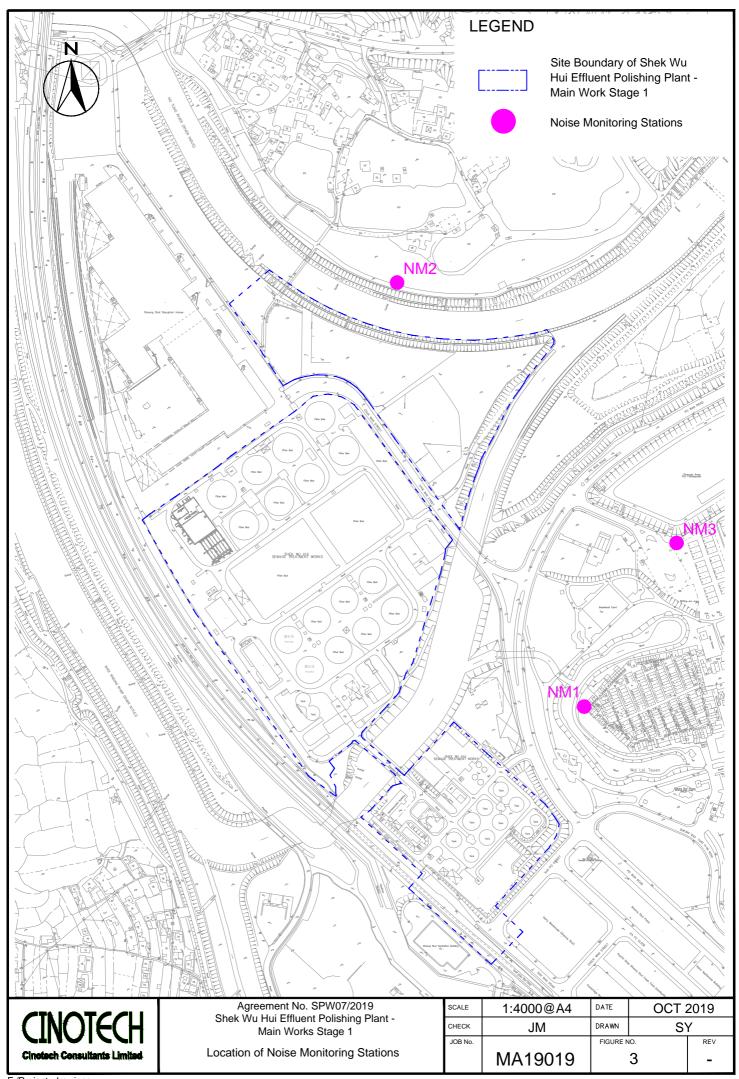
CIN	O	<b>IECH</b>

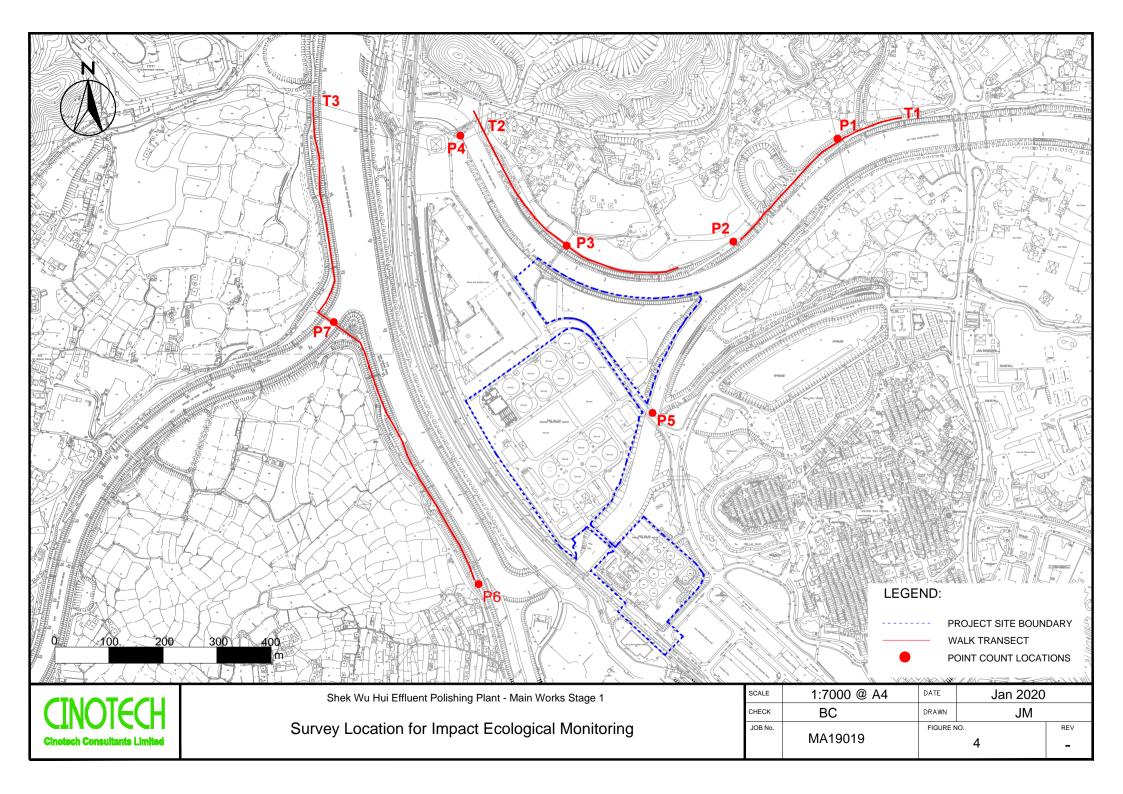
Agreement No. SPW07/2019 Shek Wu Hui Effluent Polishing Plant- Main Works Stage 1

**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	impler 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) <b>X-axis</b>		/m3)	Mass	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	)			
	Se	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 Orifice No.: 3607			After	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	ration Record	5-Apr-21	
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity 0.001 mg/m3	_		
High Volume Sa	ampler No.: <u>A-01-01A</u>	Before 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	$\mathbf{M} = \mathbf{C} + \mathbf{A}^{*} + (\mathbf{A} + \mathbf{A}^{*})$		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 Calibration Record 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 Mass C		lass Concentration (µg/	on (µg/m3)		ss concentration (	ug/m <sup>3</sup> )		
		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 Calibration Record 5-Apr-21					
Model No.:	LD-5R						
Serial No.:	972779						
Equipment No.:	SA-01-08	Sensitivity 0.001 mg	g/m3				
High Volume Sa	ampler No.: <u>A-01-01A</u>	Before Sensitivity Adjustn	nent 744 CPM				
Tisch Calibration	n Orifice No.: 3607	After Sensitivity Adjustme	ent <u>744 CPM</u>				
	Ca	libration of 1 hr TSP					
Calibration	Laser Dust Monitor		HVS				
Point	Mass Concentration (μg/ <b>X-axis</b>	(m3)	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 Slope , mw = Correlation co	ression of Y on X	Intercept, bw =	44.6000	)			
	Se	t Correlation Factor					
Particaulate Con	centration by High Volume Sampler	$(\mu g/m^3)$	101.0				
Particaulate Con	centration by Dust Meter (μg/m³)		47.0				
Measureing time	e, (min)		60.0				
Set Correlation I	Factor, SCF						
SCF = [ K=High	h Volume Sampler / Dust Meter, (μ	g/m3) ]	2.1				
The Dust Monito	I in according to the instruction manuor was compared with a calibrated Higween the Dust Monitor and High Volu	gh Volume Sampler and The	result was used to gene	rate the Correlation			

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

Calibrated by: Approved by: Very Key Wong Shing Kwai

Approved by: Henry 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. ΔTime (m3) (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=	<b>Qa=</b> 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 ab	solute temperature (°K)					
Pa: actual barometric pressure (mm Hg)						
b: intercept						
m: slono						

#### 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)	1 1 1		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/ΔTime	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 ab	osolute 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-Jan	n-21	Next Due Date:	6-1	Mar-21	Operator:	SK
Equipment No.: A-01		1-17	Model No.:	G	S2310	Serial No.	3460
			Ambient C	ondition			
Temperatu	re, Ta (K)	290.1	Pressure, Pa	(mmHg)		764.9	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	l No.	3746	Slope, mc	0.0592	Intercept	t he	-0.02740
Last Calibra		17-Jan-20			$c = [\Delta H \times (Pa/760)]$		
Next Calibr		17-Jan-20			$(Pa/760) \times (298/7)$		
Next Callor	ation Date.			ζεια − ξ[ΔΙΓ λ	(1 a/ /00) x (290/ 1	1 a)	inc .
			Calibration of	ΓSP Sampler			
Calibration	ATT ( 'C' )	<u>O</u> 1	fice	O . 1 (GF) 0	· III (IIII (I) :	HVS	(200 /m ) 31/2
Point	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$		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 8.2		3.28	55.85	7.1		2.71
3			2.91	49.65	5.4		2.36
4	5.3		2.34	40.00	3.3		1.85
5	2.8		1.70	29.20	1.8		1.36
By Linear Regr	ession of Y on X						
Slope, mw =			I	Intercept, bw	-0.234	6	
Correlation	coefficient* =	- 0	.9976	_			•
*If Correlation C	Coefficient < 0.99	0, check and re	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	ield Calibration C	urve, take Qstd	= 43 CFM				
From the Regres	ssion Equation, th	e "Y" value acc	ording to				
	_				1/2		
		mw x (	$\mathbf{Qstd} + \mathbf{bw} = [\mathbf{\Delta W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] <sup>1/2</sup>		
Therefore Se	et Point: W = ( m	w v Oetd + bw	<sup>2</sup> x ( 760 / Pa ) x ( 7	Γα / 208 ) =	4.06		
Therefore, 50	ct romt, w – ( m	w x Qsiu + bw )	x (70071a) x (1	14/270)	4.00		•
Remarks:							
Conducted by:	SK Wong	Signature:			_	Date:	6 January 2021
•		Č			-		
Checked by:	Henry Leung	Signature:	1-P 0	har		Date:	6 January 2021

#### 5-POINT CALIBRATION DATA SHEET

						File No.	MA19019/24/0008
Project No.	AM2a - Site Bou	indary of the Sh	ek Wu Hui STW (N	Jorth)			
Date:	6-Jar	Next Due Date:		6-N	Mar-21	Operator:	SK
Equipment No.:	A-01	-24	Model No.:	TE	E 5170	Serial No.	1659
			Ambient C	ondition			
Temperatu	re, Ta (K)	290.1	Pressure, Pa			764.9	
	, ()		,,	(8)	ļ		
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3746	Slope, mc	0.0592	Intercept		-0.02740
Last Calibra	ation Date:	17-Jan-20			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	17-Jan-21		$Qstd = \{ [\Delta H \ x] $	(Pa/760) x (298/7	[a)] <sup>1/2</sup> -bc} /	mc
			Calibration of T	ΓSP Sampler			
Calibration		Or	fice	P		HVS	
Calibration Point	ΔH (orifice), in. of water		50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water		/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
_	ression of Y on X		_	_		_	
Slope, mw =				ntercept, bw	-0.412	3	
	coefficient* =		.9992				
*If Correlation C	Coefficient < 0.99	0, check and rec	calibrate.				
			Set Point Ca	lculation			
From the TSP Fi	eld Calibration C	urve, take Qstd	= 43 CFM				
From the Regres	sion Equation, the	e "Y" value acco	ording to				
-	·				1/2		
		mw x Q	$\mathbf{D}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\mathbf{\Delta}\mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] <sup>1/2</sup>		
Therefore, Se	et Point; W = ( my	w x Qstd + bw)	<sup>2</sup> x ( 760 / Pa ) x ( 7	Ta / 298) =	4.22		
Remarks:							
ixemarks.							
			0 - 1				
Conducted by:	SK Wong	Signature:	<u> </u>	<u>.</u>		Date:	6 January 2021
Checked by:	Henry Leung	Signature:	1_0	No 20 27		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-D	Dec-20	Next Due Date:	10-	Feb-21	Operator:	SK
Equipment No.:	A-0	01-03	Model No.:	GS	S2310	Serial No.	10379
			Ambient C	ondition			
Temperatu	re, Ta (K)	293.9	Pressure, Pa	(mmHg)		762.5	
		0	ee To e Cu	1 11 6			
Serial	No	3746	Slope, mc	0.0592	Intercept	t be	-0.02740
Last Calibra		17-Jan-20			$c = [\Delta H \times (Pa/760]]$		
Next Calibra		17-Jan-20			(Pa/760) x (298/7		
110110 0411011			Į .	<u> </u>	( ) (	,1,1	
			Calibration of	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	1	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
By Linear Regr		X	_				
Slope, mw =		_		Intercept, bw	0.095	0	
	coefficient* =		.9981				
*If Correlation C	coefficient < 0.9	90, check and rec	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, tl	ne "Y" value acco	ording to				
		_		(D. 1240)	20/m 21/2		
		mw x (	$\mathbf{D}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\mathbf{\Delta}\mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] <sup>112</sup>		
Therefore, Se	et Point; W = ( m	nw x Qstd + bw)	<sup>2</sup> x ( 760 / Pa ) x ( 7	Γa / 298 ) =	4.27		
Remarks:							
Conducted by:	SK Wong	Signature:	ta)			Date:	10 December 2020
Conducted by:	JIX WONE	orgnature.		<u>.'</u>	•	Date.	10 December 2020
Checked by:	Henry Leung	Signature:	leng 0	hon		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-F	Seb-21	Next Due Date:	10-	Apr-21	Operator:	SK
Equipment No.:	A-(	)1-03	Model No.:	GS	S2310	Serial No.	10379
			Ambient C	ondition			
Temperatur	re, Ta (K)	289.5	Pressure, Pa	(mmHg)		760	
0 : 1	<b>N</b> T		ifice Transfer Star	1	1	1	0.00212
Serial Last Calibra		3864 11-Jan-21	Slope, mc	0.05846	Intercept $c = [\Delta H \times (Pa/760)]$		-0.00313
Next Calibra		11-Jan-21 11-Jan-22			$C = [\Delta H \times (Fa)/60]$ (Pa/760) x (298/7)		
Next Callula	ation Date.			Qstu ( ΔII A	(1 a/ 700) X (270/	1 a)   -bc   /	inc
			Calibration of	TSP Sampler			
Calibration		Or	fice			HVS	
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		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
By Linear Regr		X	,	[	0.007	<i>-</i>	
Slope, mw =	0.0462 coefficient* =	_	.9984	Intercept, bw =	0.097	<u> </u>	
		90, check and red		•			
ii correlation c	ocincient (0.)	70, eneck and rec	anorate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (	Curve, take Qstd	= 43 CFM				
From the Regress	sion Equation, tl	he "Y" value acco	ording to				
			0444   bass   FAXX7	(Da/7(0) = (24	00/Ta)1 <sup>1/2</sup>		
		mw x (	$\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	. (Pa//60) X (29	20/1a)j		
Therefore, Se	et Point; W = ( n	nw x Qstd + bw )	<sup>2</sup> x ( 760 / Pa ) x ( 7	Γa / 298 ) =	4.21		
Remarks:							
			fall				
Conducted by:	SK Wong	Signature:			•	Date:	10 February 2021
Checked by:	Henry Leung	Signature:	-leng X	'vog		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.: <u>SA-03-01</u>

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 /	Mean Air	Mean Relative	Precipitation
Date	Temperature (°C)	<b>Humidity</b> (%)	(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	rate Time Wind Direction (°)		Wind Speed (m/s)
28-Feb-21	28-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

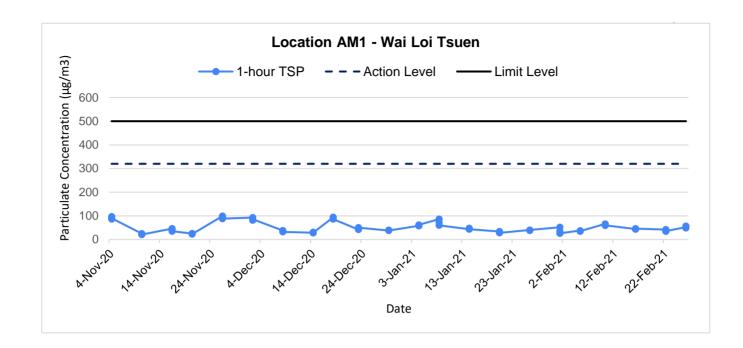
APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

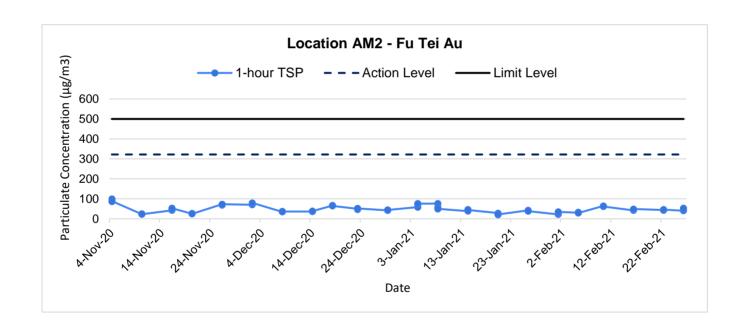
# **Appendix E - 1-hour TSP Monitoring Results**

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	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	Feb 2021	Project No. MA19019	CINOTECU
Graphical Presentation of 1-hour TSP Monitoring Results		Appendix E	CINOICCU

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

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

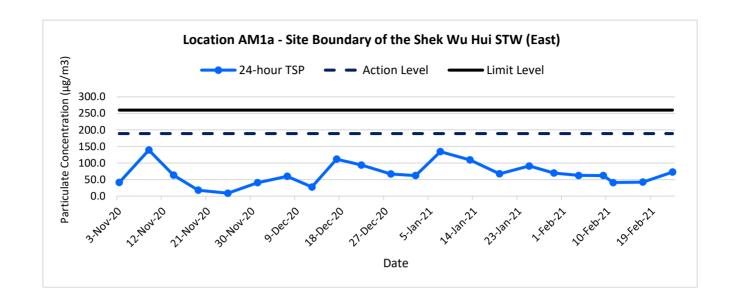
## Location AM1a - Site Boundary of the Shek Wu Hui STW (East)

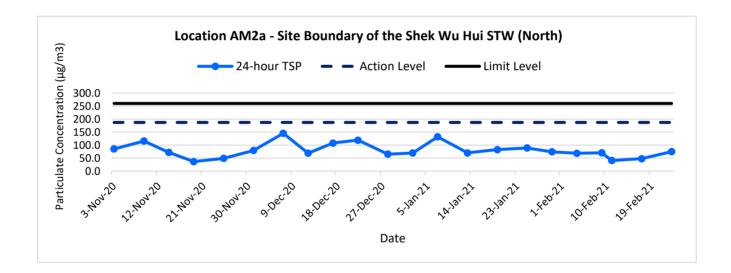
Start Date	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. Flow	Total vol.	Conc.
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	$(m^3)$	$(\mu g/m^3)$
4-Feb-21	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 Polishino Main Works Stage 1	g Plant - Date	Feb 2021	Project No.	MA19019	CINO
Graphical Presentation of 24 Monitoring Results			Appendix	F	CINO

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

 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

Calibration Technician

Mr. K.L. Ng

Approved by

**Quality Manager** 

APPENDIX H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

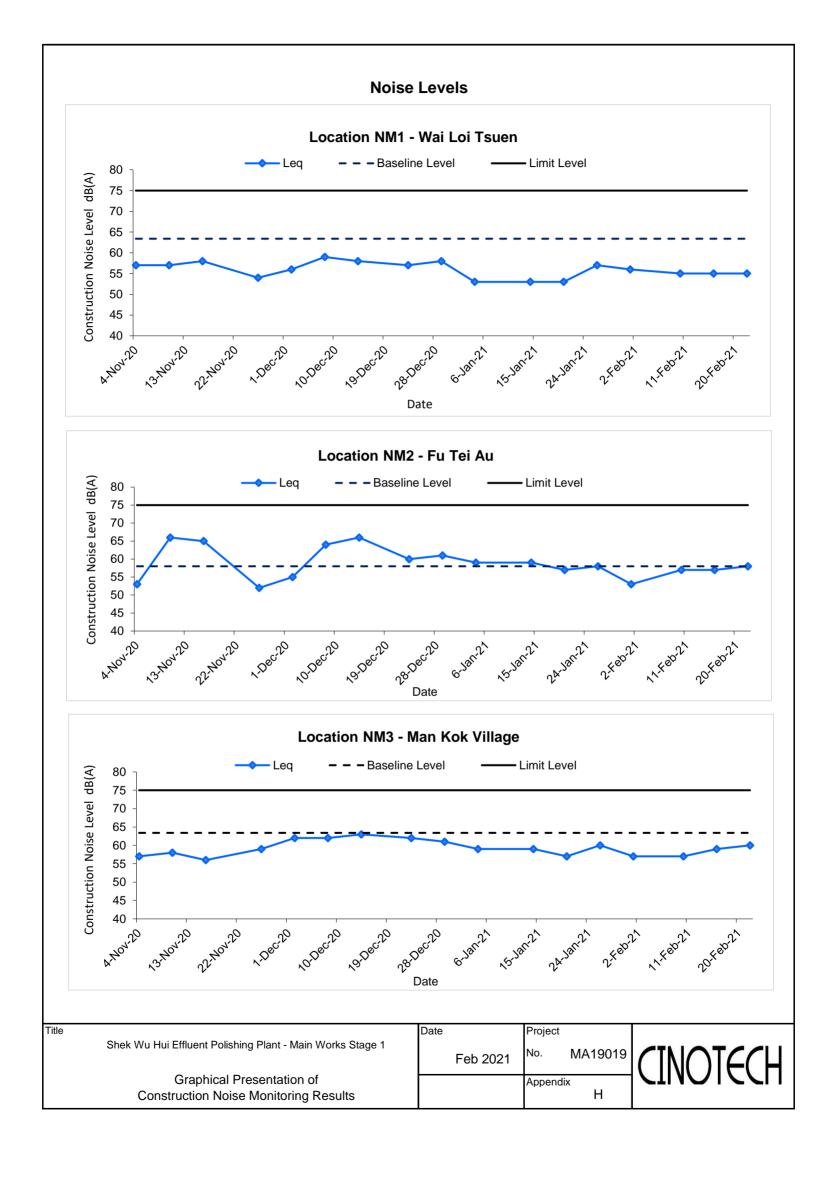
# **Appendix H - Noise Monitoring Results**

## (0700-1900 hrs on Normal Weekdays)

Location NM1 -	Location NM1 - Wai Loi Tsuen										
				Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	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										
					Un	it: dB (A) (30-min)					
Date	Time	Weather	Meas	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	11:40	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										
				Unit: 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 1 (10) 37		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	+
* * *	<u> </u>		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		[ <del></del>
Monthly Data Analysis for Ecological Monitoring	Date February 2021	Appendix I	j	10	

### 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		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 boundance	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											
Representative Species			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 smaller than the critical value, then rejects H<sub>0</sub>.

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

Crit. Value = -2.353 (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%	1
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

- ✓ = 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	CINICICCII
Monthly Data Analysis for Ecological Monitoring	Date February 2021	Appendix I	CINOTECH

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)



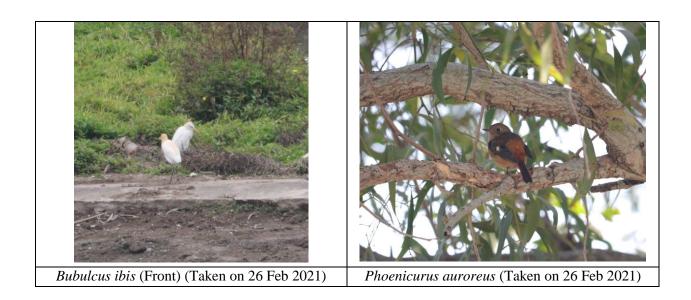
Shek Sheung River (Taken on 18 Feb 2021)

## 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	Lelis	2 February 2021
Checked by	Mr. Eric Yan	yty	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	Lelno	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: ArchSD	/CEDD/DSD/EMSD/HyD/WSD
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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		Act	tion	
Event	ET	IEC	ER	Contractor
Action level being exceeded by one sampling	<ol> <li>Identify source, investigate         the causes of complaint and         propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to         confirm finding;</li> <li>Increase monitoring         frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
Action level being exceeded by two or more consecutive sampling	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues,</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

E4		Action	
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>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	Notify IEC, ER, Contractor     and EPD;	<ol> <li>Discuss amongst ER, ET, and Confirm receipt of notification of exceedance in</li> </ol>	Take immediate action to     avoid further exceedance;
more consecutive	2. Identify source;	remedial actions; writing;	2. Submit proposals for remedial
sampling	3. Repeat measurement to	2. Review Contractor's 2. Notify Contractor;	actions to IEC within three
	confirm findings;	remedial actions whenever 3. In consolidation with the	working days of notification;

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

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

E4		Action	
Event	ET	IEC ER	Contractor
Action Level	1. Notify IEC and Contractor;	1. Review the analysed results 1. Confirm receipt of	1. Submit noise mitigation
	2. Carry out investigation;	submitted by the ET; notification of failure in	proposals to IEC;
	3. Report the results of	2. Review the proposed writing;	2. Implement noise mitigation
	investigation to the IEC, ER	remedial measures by the 2. Notify Contractor;	proposals.
	and Contractor;	Contractor and advise the ER   3. Require Contractor to propose	
	4. Discuss with the Contractor	accordingly; remedial measures for the	
	and formulate remedial	3. Supervise the analysed noise problem;	
	measures;	implementation of remedial 4. Ensure remedial measures are	
	5. Increase monitoring	measures. properly implemented.	
	frequency to check		
	mitigation effectiveness.		
Limit Level	1. Identify source;	1. Discuss amongst ER, ET, and 1. Confirm receipt of	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;

E-ron4		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;						٨
	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;						٨
	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	phase of M Works Sta Stage 2 an Stage 3	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						^
	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
S7.3.2.1	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
S7.3.2.1	MM7 - Compensatory Planting Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under DEVB TC(W) No. 7/2015.	Compensate for trees and shrubs lost due to the Project	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No. 2/2004	N/A
	Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots.						N/A
	Compensatory planting for shrubs should be considered in suitable locations. Native species such as 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</li> </ul>	
	Muddy water was suspected to be	<ul> <li>Installed additional sedimentation tanks and wastewater treatment system to increase the on-site</li> </ul>	Complaint Investigation		
1	Expansion Site of SWHSTP (Portion C)	18 March 2020	discharged from the expansion site of SWHSTP to Shek Sheung River, manholes and foul drains nearby	treatment capacity	Complaint Investigation Report (CIR) was submitted in April 2020
				Clean the slurry sediment released from the outlet regularly by suction trucks	submitted in April 2020
				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

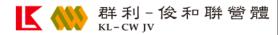
**Reporting Month:** February 2021

- (A) Exceedance Report for Air Quality (NIL in the reporting month)
- (B) Exceedance Report for Construction Noise (NIL in the reporting month)

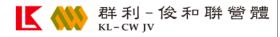
#### (C) Exceedance Report for Ecology

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



ľ	ask Name	Duration	Start	Finish	Actual Start		J O.de	ck Predecessors	Successors	% Time Risk Comple Allowance	
C	Contract Dates	1956 days	Mon 16/9/19	Wed 22/1/25	Mon 16/9/19		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		♦ 16/9
	Access Date (cal. day)	180 days	Mon 16/9/19	Sat 14/3/20	Mon 16/9/19	Sat 14/3/20	•	2		100%	16/9 14/3
	Portion A-1 Portion A-2	0 days	Mon 16/9/19 Mon 16/9/19	Mon 16/9/19 Mon 16/9/19	Mon 16/9/19 Mon 16/9/19	Mon 16/9/19 Mon 16/9/19				100%	<ul><li>♦ 16/9</li><li>♦ 16/9</li></ul>
	Portion A-2 Portion C-1A	0 days 0 days	Mon 16/9/19 Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 Mon 16/9/19	Mon 16/9/19 Mon 16/9/19	,	21-07-101 days		100%	♦ 16/9 ♦ 16/9
	Portion C-1B	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2		100%	♦ 16/9
	Portion C-2A	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2		100%	<ul><li>♦ 16/9</li></ul>
	Portion C-2B	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	♦ 16/9
	Portion C-2C	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	♦ 16/9
	Portion C-2D	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2		100%	♦ 16/9
	Portion C-3	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2		100%	♦ 16/9
	Portion C-4	0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	,	2		100%	<ul><li>♦ 16/9</li><li>♦ 16/9</li></ul>
	Portion C-5 Portion C-6	0 days 0 days	Mon 16/9/19 Sat 14/3/20	Mon 16/9/19 Sat 14/3/20	Mon 16/9/19 Sat 14/3/20	Mon 16/9/19 Sat 14/3/20	,	2FS+181 days	442,417	100% 100%	♦ 14/3
	Works Area WA1	1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19			21 3+101 days	442,417	100%	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)	842 days	Tue 17/9/19	Wed 5/1/22	Tue 17/9/19		0 days			45%	17/9
	KD1A (525 days after starting date)	525 days	Tue 17/9/19	Mon 22/2/21	Tue 17/9/19	NA	0 days	2FS+1 day		63%	<b>● 22/2</b>
	KD2A (660 days after starting date)	660 days	Tue 17/9/19	Wed 7/7/21	Tue 17/9/19	NA	0 days	2FS+1 day		50%	<b>♦</b> 7/7
	KD3A (740 days after starting date)	740 days	Tue 17/9/19	Sat 25/9/21	Tue 17/9/19	NA	,	2FS+1 day		42%	<b>♦</b> 25/9
	KD3B (725 days after starting date)	727 days	Tue 17/9/19	Sun 12/9/21	Tue 17/9/19	NA	,	2FS+1 day		42%	♦ 12/9 • 7/10
	KD3C (750 days after starting date)	752 days	Tue 17/9/19 Tue 17/9/19	Thu 7/10/21	Tue 17/9/19 Tue 17/9/19		,	2FS+1 day 2FS+1 day		41% 47%	<ul><li>♦ 7/10</li><li>♦ 7/7</li></ul>
	KD3D (660 days after starting date)  KD3E (840 days after starting date)	660 days 842 days	Tue 17/9/19 Tue 17/9/19	Wed 7/7/21 Wed 5/1/22	Tue 17/9/19 Tue 17/9/19		0 days 0 days	2FS+1 day 2FS+1 day		37%	♦ 1/1 ♦ 5/1
	Completion Date (cal. day)	1955 days	Tue 17/9/19	Wed 3/1/22 Wed 22/1/25	Tue 17/9/19		0 days	zi C. i day		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		0 days	2FS+1 day		82%	♦ ♦ 22/7
	Section 2 of Works (1,295 days after starting date)		Tue 17/9/19	Mon 3/4/23	Tue 17/9/19			2FS+1 day		25%	♦ 3/4
	Section 3 of Works (1,120 days after starting date)	1120 days	Tue 17/9/19	Mon 10/10/22	Tue 17/9/19	NA	0 days	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	NA	,	2FS+1 day		35%	♦ 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		0 days	2FS+1 day	32,33	20%	♦ 23/1
	Defect Liability Period	365 days	Wed 24/1/24	Wed 22/1/25	NA NA	NA	,	31		0%	
	Soft Landscape Establishment Works  Planned Completion - Key Date (cal. day)	365 days 255 days	Wed 24/1/24 Mon 27/9/21	Wed 22/1/25 Thu 9/6/22	NA NA		0 days			0% <b>0%</b>	27/9
D1A	KD1A (525 days after starting date)	0 days	Mon 27/9/21	Mon 27/9/21	NA NA		-216.5 day			0%	◆ 27/9
D2A	KD2A (660 days after starting date)	0 days	Sat 5/3/22	Sat 5/3/22	NA NA		-240.5 day			0%	
KD3A	KD3A (740 days after starting date)	0 days	Thu 3/3/22	Thu 3/3/22	NA		-158.5 day			0%	♦ 3/3
KD3B	KD3B (725 days after starting date)	0 days	Wed 9/3/22	Wed 9/3/22	NA	NA	-179.5 day	s 71FF		0%	♦ 9/3
KD3C	KD3C (750 days after starting date)	0 days	Wed 15/12/21	Wed 15/12/21	NA		-70.5 days			0%	♦ 15/12
KD3D	KD3D (660 days after starting date)	0 days	Fri 22/10/21	Fri 22/10/21	NA		-106.1 day			0%	♦ 22/10
	KD3E (840 days after starting date)	0 days	Thu 9/6/22	Thu 9/6/22	NA		-156.5 day			0%	40/4
SW1	Planned Completion - Section of the Works (cal. day)  Section 1 of Works (675 days after starting date)	1155 days 0 days	Tue 18/1/22 Tue 18/1/22	Tue 18/3/25 Tue 18/1/22	NA NA		-179.5 day -179.5 day			0% 0%	18/1
SW2	Section 1 of Works (675 days after starting date) Section 2 of Works (1,295 days after starting date)	0 days	Sat 29/4/23	Sat 29/4/23	NA NA		-179.5 days			0%	♦ 29/4
SW3	Section 3 of Works (1,120 days after starting date)	0 days	Fri 22/7/22	Fri 22/7/22	NA NA		80.5 days			0%	♦ 22/7
SW4	Section 4 of Works (900 days after starting date)	0 days	Mon 25/7/22	Mon 25/7/22	NA NA		-142.5 day		488	0%	<b>♦</b> 25/7
SW5	Section 5 of Works (1,590 days after starting date)	0 days	Mon 18/3/24	Mon 18/3/24	NA			115FF,175FF	48,49	0%	♦ 18/3
	Defect Liability Period	365 days	Mon 18/3/24	Tue 18/3/25	NA		0 days			0%	
	Soft Landscape Establishment Works	365 days	Mon 18/3/24	Tue 18/3/25	NA		0 days			0%	
	Delaying Events Other than Change of Works Information		Thu 3/6/21	Mon 18/3/24	NA NA		-176.5 day			0%	3/6 18/3
	Inclement Weather to KD1A  Delay and Disruption of Works before Feb 2021	86.5 days	Wed 16/6/21	Mon 27/9/21	NA NA		-176.5 day		52	0% 0%	16/6 27/9 16/6 25/9
D1A	Delay and Disruption of Works before Feb 2021  Delay and Disruption of Works for the month of Feb 2021	85.5 days 1 day	Wed 16/6/21 Sat 25/9/21	Sat 25/9/21 Mon 27/9/21	NA NA		-176.5 day		53 35FF	0%	25/9   27/9
אוע	Other Events affected to KD1A	10 days	Thu 3/6/21	Tue 15/6/21	NA NA		-176.5 day		JOI I	0%	3/6 W 15/6
	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	6 days	Thu 3/6/21	Wed 9/6/21	NA NA			s 245,243,213	56	0%	3/6 9/6
	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		-176.5 day		52	0%	10/6   15/6
											.=
	Inclement Weather to KD2A	89.5 days	Mon 15/11/21		NA NA		-197.5 day		50	0%	15/11 5/3
D2A	Delay and Disruption of Works before Feb 2021  Delay and Disruption of Works for the month of Feb 2021	88.5 days	Mon 15/11/21		NA NA		-197.5 day		59 36FF	0%	15/11 4/3 4/3   5/3
DZA	Delay and Disruption of Works for the month of Feb 2021  Other Events affected to KD2A	1 day 10 days	Fri 4/3/22 Wed 3/11/21	Sat 5/3/22 Sat 13/11/21	NA NA		-197.5 day		SUFF	0%	3/11 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			s 517,518,515,513,5	512,:62	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 day	s 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 day	s		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 NA		-127.5 day		65	0%	12/11 2/3
D3A	Delay and Disruption of Works for the month of Feb 2021	1 day	Wed 2/3/22	Thu 3/3/22	NA		-127.5 day		37FF	0%	2/3   3/3
	Other Events affected to KD3A	10 days	Mon 1/11/21	Thu 11/11/21	NA		-127.5 day			0%	1/11    11/11
	Unforeseen Social Activities in Hong Kong in November 2019 (NCE no. 0003)	6 days	Mon 1/11/21	Sat 6/11/21	NA			s 272,273,268	68	0%	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	NA	-127.5 day	s 67	64	0%	8/11   11/11
	Inclement Weather to KD3B	89.5 days	Thu 18/11/21	Wed 9/3/22	NA NA		-144.5 day		71	0%	18/11 9/3 18/11 8/3
D3B	Delay and Disruption of Works before Feb 2021  Delay and Disruption of Works for the month of Feb 2021	88.5 days 1 day	Thu 18/11/21 Tue 8/3/22	Tue 8/3/22 Wed 9/3/22	NA NA		-144.5 day		71 38FF	0% 0%	8/3   9/3
	DOMES AND DISTUDITION STORMS FOR THE HIGHLING FEU ZUZ I	i uav	TUE UISIZZ	VVCU 3/3/ZZ	INA	INA					0/0   0/0



KD I	ask Name	Duration	Start	Finish	Actual Start	Actual Finish Total Slack	KPredecessors	Successors %	Time Risk omple Allowance	2019   2020   2021   2022   2023   2024   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q3   Q4   Q1   Q1   Q3   Q4   Q1   Q1   Q3   Q4   Q1   Q1   Q3   Q4   Q1   Q1   Q1   Q1   Q1   Q1   Q1
	Other Events affected to KD3B	4 days	Sat 13/11/21	Wed 17/11/21	NA	,			0%	13/11   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
	Inclement Weather to KD3C	00 E 4	M 20/0/04	W 1 1 [ (10   01	NIA	NA FOE dave			00/	20/2 15/12
		89.5 days	Mon 30/8/21 Mon 30/8/21	Wed 15/12/21 Tue 14/12/21	NA NA			70	0% 0%	30/8 15/12 30/8 14/12
KD3C	Delay and Disruption of Works before Feb 2021  Delay and Disruption of Works for the month of Feb 2021	88.5 days 1 day	Tue 14/12/21	Wed 15/12/21	NA NA	,		76 39FF	0%	14/12   15/12
KD3C	Other Events affected to KD3C	-		Sat 28/8/21	NA NA			3955	0%	25/8 28/8
	Special Arrangement for Work After CNY due to Spread of Novel Coronavirus (PMI no.005)	4 days 4 days	Wed 25/8/21 Wed 25/8/21	Sat 28/8/21	NA NA			75	0%	25/8   28/8
	Special Arrangement for Work Arter CN1 due to Spread of Novel Coronavirus (Pivil 110.005)	4 days	Wed 25/6/21	Sat 20/0/21	INP	INA -59.5 days	300,307	75	076	25/6   25/6
	Inclement Weather to KD3D	89.5 days	Tue 6/7/21	Fri 22/10/21	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	NA		83	81	0%	6/7 21/10
KD3D	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				0%	30/6 ᡎ 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,335FF	80	0%	30/6   6/7
	Inclement Weather to KD3E	89.5 days	Thu 17/2/22	Thu 9/6/22	NA				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 	,		86	0%	17/2 8/6
KD3E	Delay and Disruption of Works for the month of Feb 2021	1 day	Wed 8/6/22	Thu 9/6/22	NA NA			41FF	0%	8/6   9/6
	Other Events affected to KD3E	4 days	Sat 12/2/22	Wed 16/2/22	NA NA			0.05	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	۷,405	0%	12/2   16/2
	Inclement Weather to Section 1 of the Works	86.5 days	Tue 5/10/21	Tue 18/1/22	NA	NA -147.5 days	3		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
SW1	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	NA NA			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 -147.5 days	93	90	0%	29/9 4/10
+	Indoment Weather to Costion 2 of the IV1	00 5 4.	Cot 7/4/00	Cot 00/4/00		NA 405 1			00/	7/4 00/4
	Inclement Weather to Section 2 of the Works	89.5 days	Sat 7/1/23	Sat 29/4/23	NA NA			07	0%	7/1 29/4 7/1 28/4
014/0	Delay and Disruption of Works before Feb 2021	88.5 days	Sat 7/1/23	Fri 28/4/23	NA NA	,		97	0%	
SW2	Delay and Disruption of Works for the month of Feb 2021	1 day	Fri 28/4/23	Sat 29/4/23	NA NA			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			4 400	0%	23/12 1 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	520,535,521,523,534	4 100	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 -18.5 days	99	96	0%	3/1   6/1
	Inclement Weather to Section 3 of the Works	89.5 days	Thu 31/3/22	Fri 22/7/22	NA	NA 65.5 days			0%	31/3
	Delay and Disruption of Works before Feb 2021	88.5 days	Thu 31/3/22	Thu 21/7/22	NA NA		106	103	0%	31/3 21/7
SW3	Delay and Disruption of Works for the month of Feb 2021	1 day	Thu 21/7/22	Fri 22/7/22	NA NA	,		45FF	0%	21/7   22/7
OWO	Other Events affected to Section 3 of the Works	10 days	Sat 19/3/22	Wed 30/3/22	NA NA	,	102	7011	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	NA NA	,	308,309,336,337,276	6./106	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	·		102	0%	26/3   30/3
	opedar Artangement for Work Autor OW and to opidad of Novel Colonia villas (i Mir 10.000)	4 days	Out 20/0/22	VVCG 50/5/22	TW-	144 00.0 days	100	102	070	25.5   55.5
	Inclement Weather to Section 4 of the Works	89.5 days	Sat 2/4/22	Mon 25/7/22	NA	NA -113.5 days	3		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	NA -113.5 days	112	109	0%	2/4 23/7
SW4	Delay and Disruption of Works for the month of Feb 2021	1 day	Sat 23/7/22	Mon 25/7/22	NA	NA -113.5 days	108	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	NA -113.5 days	3		0%	22/3 Ⅲ 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	6,4112	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	NA	NA -113.5 days	111	108	0%	29/3   1/4
	Inclement Weather to Section 5 of the Works	89.5 days	Tue 28/11/23	Mon 18/3/24	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
SW5	Delay and Disruption of Works for the month of Feb 2021	1 day	Sat 16/3/24	Mon 18/3/24	NA		114	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	,	483,481,482,484,48	5,4118	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	. NA -43.5 days	117	114	0%	23/11   27/11
5	ubmissions (cal. day)	1590 days	Mon 16/9/19	Mon 22/1/24	Mon 16/9/19				69%	16/9
	Subletting Package	1418 days	Mon 16/9/19	Thu 3/8/23	Mon 16/9/19				84%	16/9
	Prepare & Submit Subletting Procedures	1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19			122	100%	16/9   16/9
	PM Review & Accept Subletting Procedures	21 days	Mon 16/9/19	Mon 7/10/19	Mon 16/9/19			124,126,123,125,	100%	16/9 7/10
	Subletting for Preliminary Works (Instrumentation Monitoring etc.)  Subletting for Drainage Diversion Works for UV System no.1& Effluent Pumping Station No.1 (NCE no. 3)	30 days 44 days	Mon 7/10/19 Tue 8/10/19	Wed 6/11/19 Wed 20/11/19	Mon 7/10/19 Tue 8/10/19			435	100% 100%	7/10 <b>6</b> /11 <b>8</b> /10 <b>2</b> 0/11
		-	T 00:::0:::	144 140 1010			100	0.10	1000/	20/40 40/9
	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			•	100%	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		126SS+15 days		100%	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		126SS+15 days		100%	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				100%	30/10 25/11
	Subletting for Sheetpile and ELS Works	58 days	Wed 8/1/20	Fri 20/3/20	Wed 8/1/20	,			100%	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,	100%	1/6 30/7
	Subletting for External Waterproofing	60 days	Mon 6/7/20	Thu 3/9/20	Mon 6/7/20	,			100%	6/7 3/9
	Subletting for ABWF & BS Works	60 days	Mon 4/1/21	Thu 4/3/21	NA TI 00/0/00			247,276,296,309,	0%	4/1 4/3
	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
	Subletting for Pipeworks, Utilities, and Roadworks	22 days	Wed 15/4/20	Wed 6/5/20	Wed 15/4/20			478,475,476,477,		15/4 6/5
1	Substituting to 1 iportorito, Guildoo, dild Hoddfforko	LL days	1100 1017/20	1100 0/0/20	**Cu 10/4/20	1100 010120 0 00/3		. 1 0, 11 0, 11 0, 11 1,	. 50 /0	

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



Sublet Sublet Sublet Statutory Prepa Pre Pre Pre Pre App Pre App Pre App Pre App Pre App Pre App	etting for Traffic Management Consultant etting for Hard Landscape and Soft Landscape ry Submission, Submission & Approval are and Submit Subcontractor Management Plan (SMP) are and Submit Interface Management Plan are, submit & approve the layout plan of the Temporary Site accommodation are, submit & accept the ELS design for deep excavation are, submit & accept the Method Statement for Drainage Diversion Works are, submit & accept the Method Statement for Drainage Diversion Works  Management excavation Permit Application for San Wan Road (Portion A) excavation Permit Application for Chuk Wan Street (Portion C) repare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion  repare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation  ronmental Aspect Submissions  otification to EPD for Works Commencement oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	7 days 43 days 60 days 1590 days 1 day 60 days 51 days 207 days 57 days 13 days 348 days 288 days 284 days 45 days 45 days 45 days 1 day 1 day 1 day	Wed 22/4/20 Thu 9/1/20 Mon 5/6/23 Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 Thu 24/10/19 Thu 24/10/19 Tue 21/4/20 Wed 17/6/20 Mon 16/9/19	Tue 28/4/20 Thu 20/2/20 Thu 3/8/23 Mon 22/1/24 Mon 16/9/19 Thu 6/8/20 Thu 6/8/20 Sun 21/6/20 Tue 16/6/20 Mon 29/6/20 Fri 28/8/20 Mon 29/6/20 Thu 16/7/20 Thu 16/7/20 Thu 21/11/19 Fri 28/8/20	Wed 22/4/20 Thu 9/1/20 NA Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 Fri 20/9/19 Thu 24/10/19 Tue 21/4/20 Wed 17/6/20 Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 Mon 16/9/19	Thu 20/2/2 N/ N/ Mon 16/9/1: N/ Sun 21/6/2 Tue 16/6/2 Mon 29/6/2: N/	0 0 day A 104 daA A 1 day 9 0 day A 0 day A 16.4 da 0 0 day 0 0 day A 193.5 da	y	442 151 489 253 253 213 231,261,271,288, 146,435	100% 100% 0% <b>62%</b> 100% 90%		22/4   28/4 /1	Q2   Q3   Q4   Q1   Q1   Q3   Q4   Q1   Q3   Q4   Q1   Q3   Q4   Q1   Q1   Q1   Q3   Q4   Q1   Q1   Q1   Q3   Q4   Q1   Q1   Q1   Q1   Q1   Q1   Q1
Sublet  Statutory Prepa Prepa Prepa Prepa Prepa Prepa Prepa PM ap TTA N Exx Exx Pre Pre Envir No App App Pre App	etting for Hard Landscape and Soft Landscape  ry Submission, Submission & Approval  are and Submit Subcontractor Management Plan (SMP)  are and Submit Interface Management Plan  are, submit & approve the layout plan of the Temporary Site accommodation  are, submit & accept the ELS design for deep excavation  are, submit & accept the Method Statement for Drainage Diversion Works  approve the Method Statement for Drainage Diversion Works  Management  kcavation Permit Application for San Wan Road (Portion A)  kcavation Permit Application for Chuk Wan Street (Portion C)  repare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion  repare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation  ronmental Aspect Submissions  otification to EPD for Works Commencement  oply & approve for Registration as a Chemical Waste Producer  oply & approve for a Billing Account for Disposal of Construction Waste  oply & approve for Effluent Discharge Licence  repare & submit of Project Layout Plan & O-Chart for EP	60 days 1590 days 1 day 60 days 51 days 207 days 57 days 13 days 348 days 288 days 284 days 45 days 45 days 1 day	Mon 5/6/23  Mon 16/9/19  Mon 16/9/19  Mon 16/9/19  Fri 20/9/19  Thu 24/10/19  Tue 21/4/20  Wed 17/6/20  Mon 16/9/19  Mon 7/10/19  Wed 15/7/20	Thu 3/8/23  Mon 22/1/24  Mon 16/9/19  Thu 6/8/20  Thu 6/8/20  Sun 21/6/20  Tue 16/6/20  Mon 29/6/20  Fri 28/8/20  Mon 29/6/20  Thu 16/7/20  Thu 21/11/19	Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 Fri 20/9/19 Thu 24/10/19 Tue 21/4/20 Wed 17/6/20 Mon 16/9/19 Mon 7/10/19	N. N. N. Mon 16/9/1: Non 16/9/1: Non 21/6/2 Tue 16/6/2 Mon 29/6/2: Non 20/6/2:	A 104 da  A 1 day 9 0 day A 0 day A 16.4 da 0 0 day 0 0 day 0 0 day A 193.5 da	yys 122 yys 2 ys 2 ys 2 2 ys 2 128 ys 2	253 253 213 231,261,271,288,	0% <b>62%</b> 100% 90%	16/9 16/9 16/9 20/9	6/9 <b>⊕-6/8</b>	
Statutory Prepal Pre Envir No Appl Appl Pre Pre Appl Pre	ry Submission, Submission & Approval are and Submit Subcontractor Management Plan (SMP) are and Submit Interface Management Plan are, submit & approve the layout plan of the Temporary Site accommodation are, submit & accept the ELS design for deep excavation are, submit & accept the Method Statement for Drainage Diversion Works approve the Method Statement for Drainage Diversion Works Management Accavation Permit Application for San Wan Road (Portion A) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk	1590 days 1 day 60 days 51 days 207 days 57 days 13 days 348 days 288 days 284 days 67 days 45 days 1 days	Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 Fri 20/9/19 Thu 24/10/19 Tue 21/4/20 Wed 17/6/20 Mon 16/9/19 Mon 7/10/19 Wod 15/7/20	Mon 22/1/24 Mon 16/9/19 Thu 6/8/20 Thu 6/8/20 Sun 21/6/20 Tue 16/6/20 Mon 29/6/20 Fri 28/8/20 Mon 29/6/20 Thu 16/7/20 Thu 21/11/19	Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 Fri 20/9/19 Thu 24/10/19 Tue 21/4/20 Wed 17/6/20 Mon 16/9/19 Mon 7/10/19	Nu Mon 16/9/1: Ni Ni Sun 21/6/2: Tue 16/6/2: Mon 29/6/2:	A 1 day 9 0 day A 0 day A 16.4 da 0 0 day 0 0 day 0 0 day A 193.5 da	y s 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	253 253 253 213 231,261,271,288	<b>62%</b> 100% 90%	16/9 16/9 20/9	<b>●</b> 6/8	
Statutory Prepal Pre Envir Not Appl Appl Pre Pre Appl Pre	ry Submission, Submission & Approval are and Submit Subcontractor Management Plan (SMP) are and Submit Interface Management Plan are, submit & approve the layout plan of the Temporary Site accommodation are, submit & accept the ELS design for deep excavation are, submit & accept the Method Statement for Drainage Diversion Works approve the Method Statement for Drainage Diversion Works Management Accavation Permit Application for San Wan Road (Portion A) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion C) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk Wan Street (Portion A) Accavation Permit Application for Chuk	1590 days 1 day 60 days 51 days 207 days 57 days 13 days 348 days 288 days 284 days 67 days 45 days 1 days	Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 Fri 20/9/19 Thu 24/10/19 Tue 21/4/20 Wed 17/6/20 Mon 16/9/19 Mon 7/10/19 Wod 15/7/20	Mon 22/1/24 Mon 16/9/19 Thu 6/8/20 Thu 6/8/20 Sun 21/6/20 Tue 16/6/20 Mon 29/6/20 Fri 28/8/20 Mon 29/6/20 Thu 16/7/20 Thu 21/11/19	Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 Fri 20/9/19 Thu 24/10/19 Tue 21/4/20 Wed 17/6/20 Mon 16/9/19 Mon 7/10/19	Nu Mon 16/9/1: Ni Ni Sun 21/6/2: Tue 16/6/2: Mon 29/6/2:	A 1 day 9 0 day A 0 day A 16.4 da 0 0 day 0 0 day 0 0 day A 193.5 da	y s 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	253 253 253 213 231,261,271,288	<b>62%</b> 100% 90%	16/9 16/9 20/9	<b>●</b> 6/8	
Prepai Prepai Prepai Prepai Prepai Prepai Prepai Prepai Prepai PM ap TTA M Exi Exi Pre Pre Envir No' App App Pre Pre App App Pre App	are and Submit Subcontractor Management Plan (SMP) are and Submit Interface Management Plan are, submit & approve the layout plan of the Temporary Site accommodation are, submit & accept the ELS design for deep excavation are, submit & accept the Method Statement for Drainage Diversion Works  Approve the Method Statement for Drainage Diversion Works  Management  M	1 day 60 days 51 days 207 days 57 days 13 days 348 days 288 days 284 days 67 days 45 days 334 days 1 day	Mon 16/9/19 Mon 16/9/19 Fri 20/9/19 Thu 24/10/19 Tue 21/4/20 Wed 17/6/20 Mon 16/9/19 Mon 7/10/19 Mon 16/9/19 Wed 15/7/20	Mon 16/9/19 Thu 6/8/20 Thu 6/8/20 Sun 21/6/20 Tue 16/6/20 Mon 29/6/20 Fri 28/8/20 Mon 29/6/20 Thu 16/7/20 Thu 21/11/19	Mon 16/9/19 Mon 16/9/19 Fri 20/9/19 Thu 24/10/19 Tue 21/4/20 Wed 17/6/20 Mon 16/9/19 Mon 7/10/19	Mon 16/9/1 N/ N/ N/ Sun 21/6/2 Tue 16/6/2 Mon 29/6/2 N/	9 0 day A 0 day A 16.4 da 0 0 day 0 0 day 0 0 day A 193.5 da	rs 2 rs 2 ays 2 128 rs 2	253 213 231,261,271,288,	100% 90%	16/9 16/9 20/9	<b>●</b> 6/8	
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TTA M Exi Exi Pre  Pre  Enviro Api Api Pre  Api Pre  Api Pre  Api Pre  Api Pre  Api Pre	Management  kcavation Permit Application for San Wan Road (Portion A) kcavation Permit Application for Chuk Wan Street (Portion C) repare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion repare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation ronmental Aspect Submissions otification to EPD for Works Commencement oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	348 days 288 days 284 days 67 days 45 days 334 days 1 day	Mon 16/9/19 Mon 16/9/19 Mon 7/10/19 Mon 16/9/19 Wed 15/7/20	Fri 28/8/20 Mon 29/6/20 Thu 16/7/20 Thu 21/11/19	Mon 16/9/19 Mon 16/9/19 Mon 7/10/19	N/	A 193.5 d	s 145	1 24 2 2	100%		21/4 16/6	
TTA M Exi Exi Pre  Pre  Enviro Api Api Pre  Api Pre  Api Pre  Api Pre  Api Pre  Api Pre	Management  kcavation Permit Application for San Wan Road (Portion A) kcavation Permit Application for Chuk Wan Street (Portion C) repare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion repare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation ronmental Aspect Submissions otification to EPD for Works Commencement oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	348 days 288 days 284 days 67 days 45 days 334 days 1 day	Mon 16/9/19 Mon 16/9/19 Mon 7/10/19 Mon 16/9/19 Wed 15/7/20	Fri 28/8/20 Mon 29/6/20 Thu 16/7/20 Thu 21/11/19	Mon 16/9/19 Mon 16/9/19 Mon 7/10/19	N/	A 193.5 d	rs 145					
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Extra Pre	Accavation Permit Application for Chuk Wan Street (Portion C) repare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion repare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation ronmental Aspect Submissions otification to EPD for Works Commencement oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	284 days 67 days 45 days 334 days 1 day	Mon 7/10/19 Mon 16/9/19 Wed 15/7/20	Thu 16/7/20 Thu 21/11/19	Mon 7/10/19			ays		85%	16/9	<b>♦= 28/8</b>	
Extra Pre	Accavation Permit Application for Chuk Wan Street (Portion C) repare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion repare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation ronmental Aspect Submissions otification to EPD for Works Commencement oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	284 days 67 days 45 days 334 days 1 day	Mon 7/10/19 Mon 16/9/19 Wed 15/7/20	Thu 16/7/20 Thu 21/11/19	Mon 7/10/19		A 253.5 d	avs	524	99%	16/9	<b>○-29/6</b>	
Pre Pre Envir No Api Api Api Pre Pre Api Api Pre Api Pre Api Pre Api	repare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion repare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation ronmental Aspect Submissions otification to EPD for Works Commencement oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	67 days 45 days 334 days 1 day	Mon 16/9/19 Wed 15/7/20	Thu 21/11/19		NI.	A 0 day	•		80%	7/10	<b>○ 16/7</b>	
Pre  Envir  No  App  App  Pre  Pre  App  Pre  App  Pre  App  Pre  App	repare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation  ronmental Aspect Submissions  otification to EPD for Works Commencement oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	45 days <b>334 days</b> 1 day	Wed 15/7/20						435	100%	16/9		
Environ Noi Appl Appl Appl Pree Appl Pree Appl Appl Pree Appl Pree Appl Appl Pree Appl Appl Pree	ronmental Aspect Submissions  otification to EPD for Works Commencement  oply & approve for Registration as a Chemical Waste Producer  oply & approve for a Billing Account for Disposal of Construction Waste  oply & approve for Effluent Discharge Licence  repare & submit of Project Layout Plan & O-Chart for EP	<b>334 days</b> 1 day		Fri 28/8/20	IVIOI1 10/9/19	Thu 21/11/1	9 U day	S Z	430	100%	10/9	21/11	
No Api Api Api Pre Pre Api Pre Api	otification to EPD for Works Commencement oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	1 day	Mon 16/9/19		Wed 15/7/20	N	A 193.5 d	ays 138	526	0%		15/7 28/8	
No Api Api Api Pre Pre Api Pre Api	otification to EPD for Works Commencement oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	1 day	Mon 16/9/19										
Api Api Api Pre Pre Api Pre Api	oply & approve for Registration as a Chemical Waste Producer oply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	-		Fri 14/8/20	Mon 16/9/19		A 0 day			98%	16/9	<b>● 14/8</b>	
Api Api Pre Pre Api Pre Api Pre	pply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/1	9 0 day	s 2	253	100%	18/9   18		
Api Api Pre Pre Api Pre Api Pre	pply & approve for a Billing Account for Disposal of Construction Waste oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP		Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/1	9 0 day	s 2	253	100%	18/9   18	3/9	
Api Pre Pre Api Pre Api Pre	oply & approve for Effluent Discharge Licence repare & submit of Project Layout Plan & O-Chart for EP	1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19				253	100%	18/9 18	3/9	
Pre Pre App Pre App	repare & submit of Project Layout Plan & O-Chart for EP	21 days	Thu 9/1/20	Mon 3/8/20	Thu 9/1/20		A 0 day		253	90%		/1 <b>■</b> •3/8	
Pre Api Pre Api Pre	·								253		20/9 20	-	
App Pre App Pre	repare & submit Construction Noise Permits	1 day	Fri 20/9/19	Fri 20/9/19	Fri 20/9/19					100%			
Pre App Pre	•	121 days	Mon 16/9/19	Tue 14/1/20	Mon 16/9/19				159	100%	16/9		
Ap <sub>l</sub> Pre	pproval of Construction Noise Permits	60 days	Tue 14/1/20	Fri 14/8/20	Tue 14/1/20	N/	A 0 day	rs 158	253	80%	14	/1 <b>■ ●</b> 14/8	
Ap <sub>l</sub> Pre	repare, submit Site Management Plan for Trip Ticket System	9 days	Mon 16/9/19	Tue 24/9/19	Mon 16/9/19	Tue 24/9/1	9 0 day	s 2		100%	16/9 2	1/9	
Pre		249 days	Tue 24/9/19	Fri 29/5/20	Tue 24/9/19				253	100%	24/9	29/5	
	, ,	9 days	Mon 16/9/19	Tue 24/9/19	Mon 16/9/19				163	100%	16/9 2		
		,					,					21/1	
	•	119 days	Tue 24/9/19	Tue 21/1/20	Tue 24/9/19				253	100%			
	•	15 days	Mon 16/9/19	Mon 30/9/19	Mon 16/9/19				165	100%	16/9 3		
Ap	pproval of Environmental Management Plan	37 days	Mon 30/9/19	Wed 6/11/19	Mon 30/9/19	Wed 6/11/1	9 0 day	rs 164	253	100%	30/9		
Pre	repare& submit for Temporary Drainage and Management Plan	201 days	Mon 16/9/19	Fri 3/4/20	Mon 16/9/19	Fri 3/4/2	0 0 day	s 2	167	100%	16/9	3/4	
	· · · · · · · · · · · · · · · · · · ·	30 days	Fri 20/12/19	Wed 5/8/20	Fri 20/12/19		A 0 day	rs 166	435	90%	20/12	● 5/8	
		90 days	Sat 20/11/21	Thu 17/2/22	NA		A 0 day			0%		<u> </u>	20/11 17/2
гтера	are, easing a approve for the rest easing solution of the restriction	Ju days	Out 20/11/21	1110 1112/22	IVA	IN	. o uay	•		0 /0			
D.	repare and submit arrangement and schedure to FSD	30 days	Sat 20/11/21	Sun 19/12/21	NA	NI.	A 0 day	re	170	0%			20/11 19/12
	,								110		_		_
		60 days	Mon 20/12/21	Thu 17/2/22	NA NA			rs 169		0%	40/0		20/12 17/2
		1590 days	Mon 16/9/19	Mon 22/1/24	Mon 16/9/19		A 1 day			36%	16/9	•	22/1
lni <sup>r</sup>	itial Tree survey and report submission	194 days	Fri 4/10/19	Tue 14/4/20	Fri 4/10/19	Tue 14/4/2	0 day	s 2	210	100%	4/10	14/4	
Pr	repare 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	Fri 11/10/1	9 0 day	s 2	210	100%	16/9 🔳 1	11/10	
	repare and submit and approve the Method Statement of Tree felling, Preservation, Prunning works &	74 days	Fri 11/10/19	Mon 23/12/19	Fri 11/10/19	Mon 23/12/1	9 0 day	s 2	210,252	100%	11/10	23/12	
	ansplanting ubmit Yearly Tree Risk Assessment and Inspection Report	1590 days	Mon 16/9/19	Mon 22/1/24	Mon 16/9/19	N	A 1 day	u 2	47FF	20%	16/9		22/1
	·	,						·	4/11		20/9	<u> </u>	
			Fri 20/9/19	Wed 14/9/22	Fri 20/9/19		A 0 day			64%		.=	14/9
			Thu 26/9/19	Fri 17/1/20	Thu 26/9/19				223	100%		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 1/11/1	9 0 day	s 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	N/	A 0 day	'S	484,485,487,486	0%			16/6 14/9
				T 0/0/04					days	2404	16/0	0.0	
Procurer		506 days	Mon 16/9/19	Tue 2/2/21	Mon 16/9/19		A -45 da	•		81%		2/	<del>:</del>
		34 days	Mon 16/9/19	Sat 19/10/19	Mon 16/9/19			s 2	182	100%	16/9		
PM R	Review & Accept Procurement Procedure	0 days	Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	Sat 19/10/1	9 0 day	rs 181	183,200,204,205	100%		19/10	
Pipe v	works material	408 days	Fri 8/11/19	Sat 19/12/20	Fri 8/11/19	N/	A 0 day	rs 182		78%	8/11	<b>)</b> 19/1:	<u>!</u>
Pr		199 days	Tue 12/11/19	Thu 28/5/20	Tue 12/11/19			s 2	185	100%	12/11	28/5	
		205 days	Thu 28/5/20	Sat 19/12/20	Thu 28/5/20			s 184	186	100%		28/5	
		-					-			100%	_	≥25/3 13/12 ♦ 25/11	
		0 days	Fri 8/11/19	Mon 25/11/19	Fri 8/11/19			rs 185	434,435			·	
		247 days	Mon 16/12/19		Mon 16/12/19		A 8.5 da	•	475	29%		18/8	
Pre	repare & submit ductile iron pipe material particular	90 days	Thu 19/12/19	Tue 17/3/20	Thu 19/12/19	Tue 17/3/2	0 0 day	s 2	189	100%	19/12	2 17/3	
Ap	pproval of ductile iron pipe material	28 days	Tue 17/3/20	Tue 14/4/20	Tue 17/3/20	Tue 14/4/2	0 day	rs 188	190	100%		17/3 🔳 14/4	
		0 days	Wed 18/12/19		Wed 18/12/19				477	100%		♦ 21/1	
	* * * * * * * * * * * * * * * * * * * *	127 days	Tue 21/1/20	Tue 26/5/20	Tue 21/1/20			s 2FS+120 day		100%	21	/1 26/5	
		21 days	Tue 26/5/20	Tue 16/6/20	Tue 26/5/20		-		193	100%		26/5 16/6	
											_	_	
		0 days	Fri 8/5/20	Mon 8/6/20	Fri 8/5/20		-	s 192	476,477	100%		<b>♦ 8/6</b>	
Pre	repare & submit stainless steel pipe material particular	8 days	Fri 1/5/20	Fri 8/5/20	Fri 1/5/20	Fri 8/5/2	U 0 day	s 2	195	100%		1/5 8/5	
Ap	pproval of stainless steel pipe material	21 days	Sat 9/5/20	Fri 7/8/20	Sat 9/5/20	Fri 7/8/2	0 day	rs 194	196	100%		9/5 📗   7/8	
		90 days	Fri 7/8/20	Thu 5/11/20	NA		A -69.7 da	ays 195	474	0%		7/8 (5/11	
		1 day	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19			•	198	100%	19/13	2   19/12	
		30 days	Thu 19/12/19	Sat 18/1/20	Thu 19/12/19				199	100%		2 18/1	
		133 days	Mon 9/12/19	Sat 30/5/20	Mon 9/12/19				474	100%	9/12		
Prefa <sup>r</sup>	abricated steel reinforcement	294.61 days	Wed 16/10/19	Wed 5/8/20	Wed 16/10/19	Wed 5/8/2	0 0 day	s 182		100%	16/10	5/8	
Pr	repare & submit steel reinforcement material particular	21 days	Wed 16/10/19	Mon 3/8/20	Wed 16/10/19	Mon 3/8/2	0 day	s 2FS+60 days	202	100%	16/10	3/8	
Ar	oproval of prefabricated steel reinforcement material supplier	60 days	Fri 6/12/19	Mon 3/8/20	Fri 6/12/19	Mon 3/8/2	-	s 201	203	100%	6/12	3/8	
		180 days	Tue 4/2/20	Wed 5/8/20	Tue 4/2/20		0 0 day		506,418,382,377			4/2 5/8	
		,-					,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Prepa	are, submit and approve the water proofing material	11 days	Fri 5/6/20	Mon 15/6/20	Fri 5/6/20	Mon 15/6/2	0 day	rs 182	289,306,320,506	100%		5/6 15/6	

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

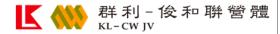


KD T	ask Name	Duration	Start	Finish	Actual Start	Actual Finish	Total Slac	ck Predecessors	Successors	% Time Risk Comple Allowance	2019   2020   2021   2022   2023   2024   2010   201
	Prepare, submit and approve the concrete mix	180 days	Fri 6/12/19	Tue 2/6/20	Fri 6/12/19	Tue 2/6/20	0 days	182	289,306,320,506,	100%	Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q1   Q2   Q3   Q4   Q1   Q1   Q1   Q1   Q1   Q1   Q1
	Prepare, submit and approve the works material	30 days	Mon 11/5/20	Tue 9/6/20	NA		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	NA NA		-63.5 days		247,276,296,309,		4/1 2/2
9	Site Preliminary Works	315.1 days		Thu 8/10/20	Mon 16/9/19		14.4 days		217,270,200,000,	66%	16/9
	Mobilization for Hoarding	5 days	Thu 21/11/19	Tue 26/11/19	Thu 21/11/19				210	100%	21/11   26/11
	Hoarding Erection at Portion C	0 days	Wed 27/11/19	Sat 29/2/20	Wed 27/11/19	Sat 29/2/20	,	209,172,173,174,21		100%	♦ 29/2
	Project Signboard Erection	11 days	Sun 15/12/19	Mon 30/12/19	Sun 15/12/19				210	100%	15/12 30/12
	Utility applications and Connection	87 days	Mon 16/9/19	Mon 30/12/19	Mon 16/9/19		,		213FF	100%	16/9 30/12
	Construction of Site Accommodation in Works Area	52 days	Thu 6/8/20	Thu 8/10/20	NA		, .	143,212FF,125	55	0%	6/8 3/10
	Construction Works of Portion C of the Site	1526 days	Mon 16/9/19	Sat 16/11/24	Mon 16/9/19		0 days			13%	16/9
*	UV System No. 1 & Effluent Pumping Station No. 1	776 days	Mon 16/9/19	Sat 30/4/22	Mon 16/9/19	NA	415.5 days	s		55%	16/9
	Preliminary Works	114 days	Mon 16/9/19	Tue 4/2/20	Mon 16/9/19	Tue 4/2/20	0 days			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 16/9/19	Mon 14/10/19	0 days	2	218	100%	16/9 14/10
	Tree Felling Works	6 days	Tue 15/10/19	Sun 20/10/19	Tue 15/10/19	Sun 20/10/19			219	100%	15/10   20/10
	Trial Pit Excavation & UU Detection Works	5 days	Tue 15/10/19	Sat 19/10/19	Tue 15/10/19	Sat 19/10/19			220	100%	15/10   19/10
	Temporary Footpath Diversion	20 days	Mon 14/10/19	Tue 5/11/19	Mon 14/10/19	Tue 5/11/19		219	221,224	100%	14/10 5/11
		1 day	Tue 10/12/19	Tue 10/12/19	Tue 10/12/19	Tue 10/12/19	,		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 30/11/19	Sat 4/1/20			223	100%	30/11 4/1
	, , ,	8 days	Thu 23/1/20	Tue 4/2/20	Thu 23/1/20	Tue 4/2/20	,		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 27/11/19	Tue 10/12/19	0 days	220	225	100%	27/11 🛮 10/12
		1 day	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	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 4/1/20	Wed 6/5/20	0 days	225	228,230	100%	4/1 6/5
		4 days	Mon 4/5/20	Thu 7/5/20	Mon 4/5/20	Thu 7/5/20		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 11/5/20	Fri 17/7/20		127,437,226	229,327,227SS-5		11/5 17/7
		26 days	Sat 18/7/20	Mon 17/8/20	Sat 18/7/20	Mon 17/8/20		228,317FS+5 days			18/7 🔳 17/8
	•	22 days	Tue 18/8/20	Fri 11/9/20	Tue 18/8/20	Fri 11/9/20		229,226	231FS-10 days	100%	18/8 11/9
		45 days	Tue 1/9/20	Sat 24/10/20	Tue 1/9/20	Sat 24/10/20		144,130,129,230FS	,	100%	1/9 24/10
	Additional sump pits (NCE no. 077)	17 days	Mon 26/10/20	Sat 14/11/20	Mon 26/10/20	Sat 14/11/20		, , . ,	235	100% 14,3	26/10 1 14/11
	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 16/11/20		-69 days		200	44% -56	16/11
	Below Ground Level Stage no.1 @ -1.10mPD	60 days	Mon 16/11/20	Wed 27/1/21	Mon 16/11/20	Wed 27/1/21				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 16/11/20	Wed 2/12/20		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]	,	Thu 3/12/20	Wed 27/1/21	Thu 3/12/20	Wed 27/1/21		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 11/1/21	NA	0 days			63%	11/1 6/3
	• •	15 days	Mon 11/1/21	Wed 27/1/21	Mon 11/1/21		21 days	236SS+30 days	239	50%	11/1 0 27/1
	, , , , ,	30 days	Thu 28/1/21	Sat 6/3/21	Thu 28/1/21	NA		238,132	241SS+14	70% 6,12	28/1 👩 6/3
	Additional CHLA puddle (DN150) NCE no.0038], [NCE no. 46, 100, 114]	,					, .		days,472	,	T
	Below Ground Level Stage no.3 @ +3.80mPD	62 days	Wed 17/2/21	Wed 5/5/21	NA	NA	-176.5 day	rs		0%	17/2 5/5
	Base slab Construction (15 sq.m + 40 sq.m)	13 days	Wed 17/2/21	Wed 3/3/21	NA	NA	-176.5 day	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	NA	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	NA	NA	-153.5 day	rs 242	55	0%	21/4 📱 5/5
	Above Ground Level @ +7.4mPD	35 days	Wed 21/4/21	Wed 2/6/21	NA		-176.5 day			0%	21/4 = 2/6
KD1A	Walls, Slabs and staircase Construction @+7.4mPD to 16.4mPD [Additional SP1-3 puddle (DN100 x 2 & DN80) (NCE.0038)], [NCE no. 46], [NCE no.100]	35 days	Wed 21/4/21	Wed 2/6/21	NA	NA	-176.5 day	vs 242	246,247,55	0% 6,12	21/4 2/6
KD1A	Allow access to Contarctor DE/2018/03 for E&M Installation	0 days	Wed 2/6/21	Wed 2/6/21	NA		-55.5 days		93	0%	♦ 2/6
SW1	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining	90 days	Thu 3/6/21	Fri 17/9/21	NA			s 207,133,245	248,93	0%	3/6 17/9
SW5	Surrounding Site formation works and road works	180 days	Sat 18/9/21	Sat 30/4/22	NA		415.5 days		117	0%	18/9 30/4
*	Sludge Digesters and Distribution Chamber	733 days	Sat 7/12/19	Thu 2/6/22	Sat 7/12/19		389.5 days			31%	7/12
	Site Clearance & Site Set Up	6 days	Sat 7/12/19	Fri 13/12/19	Sat 7/12/19	Fri 13/12/19				100%	7/12   13/12
	Trial Pit Excavation & UU Detection Works	6 days	Sat 14/12/19	Fri 20/12/19	Sat 14/12/19	Fri 20/12/19	,	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 24/4/20	Tue 15/9/20			261FS-8 days	100%	24/4 15/9
		10 days	Sat 28/12/19	Thu 9/1/20	Sat 28/12/19	Thu 9/1/20				100%	28/12   9/1
	Installation of Monitoring Points	0 days	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19		253	257	100%	♦ 19/12
	Sheetpile Installation- stage 1	24 days	Wed 15/1/20	Fri 7/2/20	Wed 15/1/20	Fri 7/2/20				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 3/2/20	Sat 8/2/20			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 8/2/20	Wed 22/4/20				100% 6	8/2 22/4
		26 days	Fri 7/8/20	Sat 5/9/20	Fri 7/8/20	Sat 5/9/20				100%	7/8 ■ 5/9
	Sheetpile Installation- stage 2 (NCE no. 10, 24)	151 days	Mon 4/5/20	Sat 31/10/20	Mon 4/5/20	Sat 31/10/20	0 days	253	257SS+20 days,2		4/5 31/10
	•	340 days	Mon 7/9/20	Sat 30/10/21	Mon 7/9/20		-127.5 day			12%	7/9 30/10
		70 days	Mon 7/9/20	Wed 16/12/20	Mon 7/9/20			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	NA	NA	-134.5 day	rs 261,203,132	266,263SS+40 da		17/12 15/3
	Construction of Digesters Tank no.2 & external waterproofing works	70 days	Tue 26/1/21	Mon 5/4/21	NA	NA	-160.5 day	s 262SS+40 days	266,264SS+40 da		26/1 1 5/4
	Construction of Digesters Tank no.3 & external waterproofing works	70 days	Sun 7/3/21	Sat 15/5/21	NA			s 263SS+40 days	266,265SS+40 da		7/3 15/5
	Construction of Digesters Tank no.4 & external waterproofing works	70 days	Fri 16/4/21	Thu 24/6/21	NA	NA	-160.5 day	s 264SS+40 days	266	0%	16/4 24/6
	Water Test	20 days	Fri 25/6/21	Mon 19/7/21	NA	NA	-127.5 day	vs 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	NA	NA	-127.5 day	vs 266	268	0%	20/7 ■ 20/8
KD3A	Construction of Roof Slab	58 days	Sat 21/8/21	Sat 30/10/21	NA	NA	-127.5 day	rs 267	273,67	0%	21/8 30/10
	Construction of Distribution Chamber	172 days	Mon 18/1/21	Wed 18/8/21	NA	NA	-67.5 days	S		0%	18/1
SP	Sheet Pile Installation	45 days	Mon 18/1/21	Sat 13/3/21	NA		-63.5 days		271	0%	18/1 🦏 13/3
	ELS Works (incl. Strut (3-layers) Installation & Excavation)	45 days	Mon 15/3/21	Tue 11/5/21	NA			s 144,130,270,129,26		0% 10	15/3 11/5
	Construction of Distribution Chamber	78 days	Mon 17/5/21	Wed 18/8/21	NA		-67.5 days		276,273,275,274,		17/5 18/8
KD3A	Ochsi dellon of Distribution Chamber										
KD3A KD3A		0 days	Sat 30/10/21	Sat 30/10/21	NA	NA	-127.5 day	rs 272,268	67	0%	

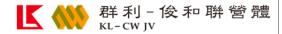
Task Milestone ◆

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



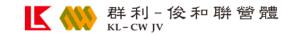
KD Ta	ask Name	Duration	Start	Finish	Actual Start A	Actual Finish	Total Slad	Predecessors		% Time Risk Comple Allowance	2019   2020   2021   2022   2023   2024   2025   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4
	FRP Walkway & Miscellanous Installation	90 days	Thu 19/8/21	Sat 4/12/21	NA		148.5 day		105	0%	19/8 4/12
SW3	ABWF Works & BS Works, incl. External Linning	90 days	Thu 19/8/21	Sat 4/12/21	NA			s 272,207,133	277,105	0%	19/8 4/12
SW5	Surrounding Site formation works and road works	180 days	Sun 5/12/21	Thu 2/6/22	NA		476.5 day		117	0%	5/12 2/6
*	Sludge Dewatering Building	817 days	Tue 26/11/19	Tue 30/8/22	Tue 26/11/19		315.5 day			44%	26/11 30/8
	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
	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	Fri 20/12/19	9 0 days	126,279	282,281	100%	28/11 20/12
	Additional Predrilling Works (11no.)	8 days	Mon 23/12/19	Mon 30/12/19	Mon 23/12/19	Mon 30/12/19	0 days	280	282	100%	23/12 30/12
	Installation of Monitoring Points	4 days	Fri 10/1/20	Tue 14/1/20	Fri 10/1/20	Tue 14/1/20	0 days	280,281	287,283	100%	10/1   14/1
	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	Fri 6/3/20	,		287,285,284	100%	15/1 6/3
	Setting up plant for pre-bored socked H-pile Installation	5 days	Sat 7/3/20	Thu 12/3/20	Sat 7/3/20	Thu 12/3/20	-		285,415SS-14 da		7/3   12/3
	Pre-bored Socketed H-Pile Installation (202 Nos, 4 Rig, 3days/rig/pile) (NCE no. 18A, 25, 27 & 32)	67 days	Fri 13/3/20	Fri 5/6/20	Fri 13/3/20	Fri 5/6/20	0 days	127,284,283	315,286	100% 6	13/3 5/6
	Pile Loading Test	20 days	Tue 30/6/20	Thu 23/7/20	Tue 30/6/20	Thu 23/7/20	0 days	285	288	100%	30/6 ■ 23/7
	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	Sat 31/10/20		282,283	417,288	100%	11/1 31/10
	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	Wed 13/1/2	-				2/11 3/1
	R.C. Structure	246 days	Thu 14/1/21	Fri 12/11/21	NA		,	rs 204,205,206,131,28		0% 10	14/1
	Basement Consturction & external waterproofing works	70 days	Thu 14/1/21	Tue 13/4/21	NA.		A -144.5 day		291	0%	14/1 13/4
	Ground Floor Construction @ +7.55mpD	72 days	Wed 14/4/21	Sat 10/7/21	NA.		A -144.5 day		292	0%	14/4 10/7
	1/F Construction @ +15.3m mPD	72 days	Mon 12/7/21	Tue 5/10/21	NA NA		4 -144.5 day		293	0%	12/7 5/10
D3B	Roof Construction @ +25.65mPD	32 days	Wed 6/10/21	Fri 12/11/21	NA		A -144.5 day		395,294,73	0%	6/10 12/11
D3B	Allow access to Contarctor DE/2018/03 for E&M Installation	0 days	Fri 12/11/21	Fri 12/11/21	NA		A -144.5 day		73	0%	♦ 12/11
	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		105	0%	13/11 4/3
N5	ABWF Works & BS Works	89 days	Sat 13/11/21	Thu 3/3/22	NA		-	289,207,133	297,105	0%	13/11 3/3
V5	Surrounding Site formation works and road works	180 days	Fri 4/3/22	Tue 30/8/22	NA		A 387.5 day		117	0%	4/3 30/8
	Combined Heat Power Building	734 days	Tue 10/12/19	Tue 7/6/22	Tue 10/12/19		386.5 day			14%	10/12
	Site Clearance & Site Set Up	6 days	Tue 10/12/19	Mon 16/12/19	Tue 10/12/19	Mon 16/12/19	-	2,300SF		100%	10/12   16/12
	Predrilling Works (15no. 2rig, 3days/drillhole/rig) (NCE no. 10)	15 days	Tue 10/12/19	Sat 28/12/19	Tue 10/12/19	Sat 28/12/19	-	126FS+28 days	301,299SF	100%	10/12 28/12
	Installation of Monitoring Points	4 days	Fri 3/1/20	Tue 7/1/20	Fri 3/1/20	Tue 7/1/20	0 days	300	303	100%	3/1   7/1
	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	Tue 14/1/20	0 days		303	100%	8/1   14/1
		77 days	Wed 15/1/20	Tue 21/4/20	Wed 15/1/20	Tue 21/4/20	0 days	127,301,302,500	304	100% 6	15/1 21/4
	Pile Loading Test	4 days	Wed 22/4/20	Sat 25/4/20	NA		4 -13.5 days		305	0%	22/4 <u>⊕ 25/4</u>
	Excavation for Pile Cap (2,060 cu.m)	85 days	Mon 22/6/20	Wed 30/9/20	NA			s 144,130,304,129	306	0% 10	22/6
)3C	R.C. Structure	263 days	Sat 3/10/20	Mon 23/8/21	NA	N/	4 -59.5 day	s 204,205,206,131,30	05,1308,309,307,385,	0% 10	3/10 23/8
D3C	Allow access to Contarctor DE/2018/03 for E&M Installation	1 day	Tue 24/8/21	Tue 24/8/21	NA	N/	4 -59.5 day	s 306	78	0%	24/8   24/8
	Drainage System (within Bldg/ Structure) Installation	60 days	Tue 24/8/21	Thu 4/11/21	NA	N/	A 174.5 day	s 306	105	0%	24/8 4/11
W3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining	90 days	Tue 24/8/21	Thu 9/12/21	NA	N/	A 144.5 day	s 306,207,133	310,105	0%	24/8 9/12
W5	Surrounding Site formation works and road works	180 days	Fri 10/12/21	Tue 7/6/22	NA	N/	471.5 day	s 309	117	0%	10/12 7/6
	Sewage Pumping Station	838 days	Fri 15/11/19	Wed 14/9/22	Fri 15/11/19		303.5 day			27%	15/11 14/9
	Site Clearance & Site Set Up	14 days	Fri 15/11/19	Sat 30/11/19	Fri 15/11/19	Sat 30/11/19			313	100%	15/11 30/11
	Predrilling Works (4no.1rig, 3days/drillhole/rig)	0 days	Mon 2/12/19	Mon 30/12/19	Mon 2/12/19	Mon 30/12/19	,		2 314	100%	
	Installation of Monitoring Points	4 days	Fri 17/4/20	Tue 21/4/20	Fri 17/4/20	Tue 21/4/20				100%	17/4   21/4
	Setting up plant for pre-bored socked H-pile Installation	5 days	Tue 21/4/20	Sat 25/4/20	Tue 21/4/20	Sat 25/4/20			316	100%	21/4   25/4
	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	Fri 29/5/20	,	127,315	317	100% 6	27/4 29/5
	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 11/11 15/12
	Sheet Pile Installation	30 days	Wed 11/11/20		Wed 11/11/20			317,259FS+8 days		100%	16/12 25/3
225	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	26/3
D3E	R.C. Structure & waterproofing works	200 days	Fri 26/3/21	Fri 26/11/21	NA NA			204,205,206,131,34		0% 10	27/11 18/3
N3 N5	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining Surrounding Site formation works and road works	90 days 180 days	Sat 27/11/21 Sat 19/3/22	Fri 18/3/22 Wed 14/9/22	NA NA		372.5 days	207,133,320,132 s 321	322,105 117	0%	19/3
	Workshop No. 2	683.6 days		Wed 14/9/22 Wed 20/4/22	Tue 24/12/19		424.9 day		111	15%	24/12
	Site Clearance & Site Set Up	3 days	Tue 24/12/19	Sat 28/12/19	Tue 24/12/19	Sat 28/12/19			325	100%	24/12   28/12
	Predrilling Works (10no.1rig, 3days/drillhole/rig) (NCE no. 10)	8 days	Thu 2/1/20	Fri 10/1/20	Thu 2/1/20	Fri 10/1/20	-	126,324	326	100%	2/1   10/1
	Installation of Monitoring Points	4 days	Tue 25/2/20	Fri 28/2/20	Tue 25/2/20	Fri 28/2/20	,		328,327	100%	25/2   28/2
	Setting up plant for pre-bored socked H-pile Installation	0 days	Tue 10/3/20	Tue 17/3/20	Tue 10/3/20	Tue 17/3/20	-	326,228	328	100%	♦ 17/3
	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	Sat 6/6/20			329,345	100% 6	18/3 6/6
	Pile Loading Test	16 days	Sun 7/6/20	Fri 26/6/20	Sun 7/6/20			328,501FS+5 days			7/6 26/6
	Excavation for Pile Cap (1,800 cu.m)	22 days	Wed 30/9/20	Tue 8/12/20	NA		-	s 144,130,329,129	332,474,475,476,		30/9 6 8/12
	R.C. Structure	166 days	Tue 8/12/20	Tue 6/7/21	NA		A -88.1 days			0% 10	8/12 6/7
	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
	First Floor Construction @ +13.50mpD	62 days	Sat 27/2/21	Mon 17/5/21	NA		A -88.1 days		334	0%	27/2 17/5
3D	Roof Construction @+19.00mPD	40 days	Mon 17/5/21	Tue 6/7/21	NA		A -88.1 days		336,337,335,83F		17/5 6/7
3D	Allow access to Contarctor DE/2018/03 for E&M Installation	0 days	Tue 6/7/21	Tue 6/7/21	NA		-88.1 day		83FF	0%	♦ 6/7
	Drainage System (within Bldg/ Structure) Installation	60 days	Tue 6/7/21	Tue 14/9/21	NA		A 215.9 day		105	0%	6/7 14/9
/3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining	90 days	Tue 6/7/21	Fri 22/10/21	NA			s 207,133,334	338,105	0%	6/7 22/10
/5	Surrounding Site formation works and road works	180 days	Fri 22/10/21	Wed 20/4/22	NA	N/	A 519.9 day	s 337	117	0%	22/10 20/4
	Thermal Hydrolysis Pretreatment	494 days	Thu 19/12/19	Sun 22/8/21	Thu 19/12/19		4 618.5 day			39%	19/12 22/8
	Site Clearance & Site Set Up	18 days	Thu 19/12/19	Sat 11/1/20	Thu 19/12/19	Sat 11/1/20	0 days	2	341,342	100%	19/12 11/1
	Predrilling Works (3no.1rig, 3days/drillhole/rig) (NCE no. 10)	1 day	Fri 10/1/20	Mon 13/1/20	Fri 10/1/20	Mon 13/1/20	0 days	126FS+24 days,340	343	100%	10/1   13/1
		1 day	Fri 10/1/20	Mon 13/1/20	Fri 10/1/20	Mon 13/1/20	-		343	100%	10/1   13/1
	Additional Predrilling Works (4no.) (NCE no. 12)		E-: 4/E/00	Fri 8/5/20	Fri 1/5/20	Fri 8/5/20	0 days	341,342	345	100%	1/5   8/5
	Additional Predrilling Works (4no.) (NCE no. 12) Installation of Monitoring Points	6 days	Fri 1/5/20	1110/3/20							
			Tue 12/5/20	Sat 16/5/20	Tue 12/5/20	Sat 16/5/20	0 days		345	100%	12/5   16/5
	Installation of Monitoring Points	6 days				Sat 16/5/20 Sat 20/6/20	-	127,343,344,328	345 346	100% 100% 6	12/5   16/5 18/5   20/6
	Installation of Monitoring Points Setting up plant for pre-bored socked H-pile Installation	6 days 5 days	Tue 12/5/20	Sat 16/5/20	Tue 12/5/20		0 days		346	100% 6	



KD Task Name		Duration	Start	Finish	Actual Start	Actual Finish Total Slack Predecessors	Successors	Comple Allowance	2019
KD3E R.C. Plinth		40 days	Mon 4/1/21	Tue 23/2/21	Mon 4/1/21	,	320,349,88	100%	4/1 23/2
SW5 Surrounding Site formation w  * Ferric Chloride Dosing Faciliti		180 days	Tue 23/2/21	Sun 22/8/21 Thu 25/8/22	NA NA		117	0% <b>0%</b>	23/2 22/8 25/5 25/5 25/8
Excavation for Raft Footing (		374 days 34 days	Tue 25/5/21 Tue 25/5/21	Mon 5/7/21	NA NA		352	0%	25/5 5/7
Plate Load Test	us cu.iii)	18 days	Tue 6/7/21	Mon 26/7/21	NA NA	, .	353	0%	6/7 26/7
R.C. Structure		66 days	Tue 27/7/21	Wed 13/10/21	NA NA	,	354	0%5	27/7 13/10
KD3E Steel Roof Structure (On-site	Fahrication)	65 days	Fri 15/10/21	Fri 31/12/21	NA NA		355.88	0%	15/10 31/12
SW3 ABWF Works & BS Works	i abrication)	45 days	Mon 3/1/22	Sat 26/2/22	NA NA		356,105	0%	3/1 26/2
SW5 Surrounding Site formation w	orks and road works	180 days	Sun 27/2/22	Thu 25/8/22	NA NA		117	0%	27/2 25/8
* Fire Hydrant and Booster Pun		329 days	Mon 19/7/21	Thu 25/8/22	NA NA			0%	19/7
Excavation for Raft Footing (	•	10 days	Mon 19/7/21	Thu 29/7/21	NA		359,405	0%	19/7 29/7
Plate Load Test	,	18 days	Fri 30/7/21	Thu 19/8/21	NA		360	0%	30/7 ■ 19/8
KD3E R.C. Structure & waterproofin	g works	60 days	Thu 21/10/21	Fri 31/12/21	NA	•	32 361,88	0% 5	21/10 31/12
SW3 ABWF Works & BS Works	•	45 days	Mon 3/1/22	Sat 26/2/22	NA		362,105	0%	3/1 26/2
SW5 Surrounding Site formation w	orks and road works	180 days	Sun 27/2/22	Thu 25/8/22	NA	NA 392.5 days 361	117	0%	27/2 25/8
Transformer and Switchroom		324 days	Thu 6/5/21	Thu 9/6/22	NA NA	NA -52.5 days		0%	6/5
Excavation for Raft Footing (	310 cu.m)	20 days	Thu 6/5/21	Sat 29/5/21	NA	NA -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	NA -52.5 days 364	366	0%	31/5 21/6
D3E R.C. Structure		60 days	Mon 9/8/21	Wed 20/10/21	NA		367,360,88	0% 5	9/8 20/10
W3 ABWF Works & BS Works		45 days	Thu 21/10/21	Sat 11/12/21	NA		368,105	0%	21/10 11/12
W5 Surrounding Site formation w	orks and road works	180 days	Sun 12/12/21	Thu 9/6/22	NA		117	0%	12/12 9/6
Water Meter Cabinet		217 days	Tue 3/8/21	Wed 27/4/22	NA			0%	3/8 27/4
Excavation for Raft Footing (	cu.m)	10 days	Tue 3/8/21	Fri 13/8/21	NA	,	371	0%	3/8 13/8
Plate Load Test		18 days	Sat 14/8/21	Fri 3/9/21	NA	,.	372	0%	14/8 3/9
R.C. Structure		30 days	Sat 4/9/21	Mon 11/10/21	NA		373,376	0% 3	4/9 11/10
W4 ABWF Works & BS Works		15 days	Tue 12/10/21	Fri 29/10/21	NA		374,111	0%	12/10 ■ 29/10
W5 Surrounding Site formation w	orks and road works	180 days	Sat 30/10/21	Wed 27/4/22	NA		117	0%	30/10 27/4
Guard House		224 days	Tue 12/10/21	Sun 17/7/22	NA NA			0%	12/10 17/7
Excavation to Formation		21 days	Tue 12/10/21	Fri 5/11/21	NA		377	0%	12/10 ■ 5/11
R.C. Structure		30 days	Sat 6/11/21	Fri 10/12/21	NA	,	378	0% 3	6/11 10/12
W4 ABWF Works & BS Works		30 days	Sat 11/12/21	Tue 18/1/22	NA		379,111	0%	11/12 18/1
W5 Surrounding Site formation w	orks and road works	180 days	Wed 19/1/22	Sun 17/7/22	NA 		117	0%	19/1 17/7
Coolers Pumping Station		245 days	Wed 12/5/21	Mon 7/3/22	NA NA		202 402	0%	12/5 7/3
Excavation for Raft Footing (	85 cu.m)	40 days	Wed 12/5/21	Tue 29/6/21	NA NA	,	382,400	0%	12/5 29/6
W4 R.C. Structure		60 days	Wed 30/6/21	Wed 8/9/21	NA NA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	402,383,88	0% 5	30/6 8/9
W5 Surrounding Site formation w	orks and road works	180 days	Thu 9/9/21	Mon 7/3/22	NA		117	0%	9/9 7/3 24/8 25/4
Waste Gas Buner	77 )	197 days	Tue 24/8/21	Mon 25/4/22	NA NA		200 440	0%	24/8 9/9
Excavation for Raft Rooting (	/scu.m)	15 days	Tue 24/8/21	Thu 9/9/21	NA NA	,. ,	386,410	0%	10/9 2/10
Plate Load Test  D3E R.C. Plinth		18 days	Fri 10/9/21	Sat 2/10/21 Wed 27/10/21	NA NA	,	387 412,388,88	0%	4/10 27/10
D3E R.C. Plinth W5 Surrounding Site formation w	arka and road works	20 days 180 days	Mon 4/10/21 Thu 28/10/21	Mon 25/4/22	NA NA		117	0% 0%	28/10 25/4
Plant Services Water System	DIKS dilu lodu works	243 days	Mon 12/4/21	Thu 3/2/22	NA NA		117	0%	12/4
Excavation for Raft Footing (	(00 cu m)	20 days	Mon 12/4/21	Wed 5/5/21	NA NA		391,364	0%	124 5/5
Plate Load Test	00 Cu.iii)	18 days	Thu 6/5/21	Thu 27/5/21	NA NA		392	0%	6/5 <b>■</b> 27/5
D3E Basement Construction @+1	20mPD	60 days	Fri 28/5/21	Sat 7/8/21	NA NA	,	366,393,88	0%	28/5 7/8
SW5 Surrounding Site formation w		180 days	Sun 8/8/21	Thu 3/2/22	NA NA		117	0%	8/8 3/2
Deodorization System No. 11	Since and rode works	218 days	Sat 13/11/21	Wed 10/8/22	NA NA			0%	13/11 10/8
Excavation for Raft Footing (	.280 cu.m)	20 days	Sat 13/11/21	Mon 6/12/21	NA NA		396	0%	13/11 6/12
Plate Load Test	,250 04/	18 days	Tue 7/12/21	Wed 29/12/21	NA NA	,	397	0%	7/12 29/12
D3E R.C. Plinth		34 days	Thu 30/12/21	Fri 11/2/22	NA NA		398,88	0%	30/12 11/2
W5 Surrounding Site formation w	orks and road works	180 days	Sat 12/2/22	Wed 10/8/22	NA NA	• .	117	0%	12/2 10/8
Biogas Holder		234 days	Mon 30/8/21	Thu 16/6/22	NA NA	,		0%	30/8
Excavation for Raft Footing (	,120 cu.m)	20 days	Mon 30/8/21	Tue 21/9/21	NA NA	•	401	0%	30/8 21/9
Plate Load Test	,	18 days	Thu 23/9/21	Fri 15/10/21	NA	•	402	0%	23/9 15/10
D3E R.C. Plinth		55 days	Sat 16/10/21	Sat 18/12/21	NA	·	403,88	0%	16/10 18/12
W5 Surrounding Site formation w	orks and road works	180 days	Sun 19/12/21	Thu 16/6/22	NA		117	0%	19/12 16/6
H2S Removal System		211 days	Mon 27/9/21	Thu 16/6/22	NA.			0%	27/9 16/6
Excavation for Raft Footing (	396 cu.m)	10 days	Mon 27/9/21	Fri 8/10/21	NA	NA -83.5 days 2,358	406	0%	27/9 8/10
Plate Load Test		20 days	Sat 9/10/21	Tue 2/11/21	NA	NA -83.5 days 405	407	0%	9/10 2/11
D3E R.C. Plinth		40 days	Wed 3/11/21	Sat 18/12/21	NA	NA -83.5 days 406	408,88	0%	3/11 18/12
V5 Surrounding Site formation w	orks and road works	180 days	Sun 19/12/21	Thu 16/6/22	NA	NA 462.5 days 407	117	0%	19/12 16/6
Deodorization System No. 12		200 days	Fri 10/9/21	Wed 18/5/22	NA	NA -58.5 days		0%	10/9 18/5
Excavation to Formation		20 days	Fri 10/9/21	Tue 5/10/21	NA		411	0%	10/9 _ 5/10
Plate Load Test		18 days	Wed 6/10/21	Wed 27/10/21	NA	,	412	0%	6/10 27/10
D3E R.C. Plinth		20 days	Thu 28/10/21	Fri 19/11/21	NA		413,88	0%	28/10 ■ 19/11
V5 Surrounding Site formation w	orks and road works	180 days	Sat 20/11/21	Wed 18/5/22	NA	,	117	0%	20/11 18/5
Underpass & Pump House		711 days	Thu 20/2/20	Sat 16/7/22	Thu 20/2/20			13%	20/2
Temporary Storage for H pile	works and access for DSD	150 days	Thu 20/2/20	Fri 21/8/20	Thu 20/2/20		417	85%	20/2 21/8
Stage 1 (Bay A1 - B2)		452 days	Mon 4/1/21	Sat 16/7/22	NA	,		0%	4/1
	.S Works (incl. Strut (2-layers) Installation & Excavation	50 days	Mon 4/1/21	Fri 5/3/21	NA		418	0%	4/1 5/3
R.C. Structure		80 days	Sat 6/3/21	Tue 15/6/21	NA		419	0% 10	6/3 15/6
W4 Backfilling and Road work		30 days	Wed 16/6/21	Wed 21/7/21	NA	·	423,420,111	0%	16/6 21/7
Surrounding Site formatio	n works and road works	180 days	Thu 22/7/21	Mon 17/1/22	NA		421	0%	22/7 17/1
W5 ABWF & BS Works		180 days	Tue 18/1/22	Sat 16/7/22	NA	,	117	0%	18/1 16/7
Stage 2 (Bay B3)		264 days	Thu 22/7/21	Mon 13/6/22	NA	-		0%	22/7 13/6
TTA implementation at Ch	uk Wan Street southeast bound	2 days	Thu 22/7/21	Fri 23/7/21	NA.	NA -108.5 days 419	424	0%	22/7   23/7



KD Ta	lsk Name	Duration	Start	Finish	Actual Start A	Actual Finish	Total :	Slack Predecessors	Successors	% Time Risk Comple Allowance	2019   2020   2021   2022   2023   2024   20   Q1   Q2   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	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	days 424	426	0%	28/8 22/10
	Backfilling and Reinstatement Works	20 days	Sat 23/10/21	Mon 15/11/21	NA			days 425	427	0%	23/10 15/11
		2 days	Tue 16/11/21	Wed 17/11/21	NA			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	days 427	429	0%	18/11 10/12
	R.C. Structure	45 days	Sat 11/12/21	Tue 8/2/22	NA	NA	A -108.5	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			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
	Pipe Works and Utility Installation  Pipe Works At Chuk Wan Street	1470 days 601 days	Fri 22/11/19 Fri 22/11/19	Sat 16/11/24 Wed 1/12/21	Fri 22/11/19 Fri 22/11/19		A 0 da	•		4% 29%	22/11 1/12
	Drainage Diversion (Existing Drainage Culvert)	542 days	Fri 22/11/19	Mon 20/9/21	Fri 22/11/19		A 534.5 Δ -147.5	days 223,186		43%	22/11 20/9
	Stage 1 - Drainage Diversion of Drainage btw Reconstructed Storm Water Manhole SMH1003177A	-	Fri 22/11/19	Fri 29/11/19	Fri 22/11/19	Fri 29/11/19		•	1. 436	100%	22/11   29/11
	and Reconstructed Storm Water Manhole MHD33 - A	·								1000/	
	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) [(PPMI no. 08,015,018,028)]	90 days	Mon 6/1/20	Mon 27/4/20	Mon 6/1/20	Mon 27/4/20		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>9-9/5</del>
)1A	Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng 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	days 461	439	0%	29/4 12/7
W1	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	days 438	93	0%	13/7 20/9
14	Trenchless Work for Pipe Installation	438 days	Sat 13/6/20	Wed 1/12/21	Sat 13/6/20		A 534.5	days		23%	13/6
	•	4 days	Sat 13/6/20	Wed 17/6/20	Sat 13/6/20	Wed 17/6/20		•	443	100%	13/6   17/6
	Construction of Temporary Jacking Pit	95 days	Thu 18/6/20	Sat 10/10/20	Thu 18/6/20	Sat 10/10/20		• '	444	100%	18/6 10/10
	Trial Pit Excavation & UU Detection Works Pit Construction (11m x 9m) (NCE no. 44,49)	0 days 89 days	Thu 18/6/20 Fri 26/6/20	Thu 18/6/20 Sat 10/10/20	Thu 18/6/20 Fri 26/6/20	Thu 18/6/20 Sat 10/10/20		•	444 447	100% 100% 18,15	\$ 18/6 26/6 10/10
	Pite Construction (11m x 9m) (NCE no. 44,49)  Pipe Jacking Operation	89 days 193 days	Tue 1/9/20	Wed 28/4/21	Mon 12/10/20	Sat 10/10/20 NA		, .	441	18%	1/9
	Twin DN900 DI pipe (CHAT & CHAU)	193 days	Tue 1/9/20	Sat 9/1/21	Mon 12/10/20	NA NA		•		18% (x)	•••
	Setting Up of Entrance Ring & Gantry, and Trenchless Equipment (NCE no.55,69)	24 days	Mon 12/10/20	Mon 9/11/20	Mon 12/10/20		A 24 d	,	448	29% 17	12/10 9/11
	Pipe Jacking Operation for CHAT DN900 DI pipe (30m, 3m/day) (NCE no.92)	26 days	Thu 19/11/20	Fri 18/12/20	Thu 19/11/20			days 447	451,449	62% 8,2	19/11 <b>©</b> 18/12 19/12 <b>©</b> 25/12
	Setting Up of Entrance Ring & Gantry, and Trenchless Equipment Pipe Jacking Operation for CHAU DN900 DI pipe (30m, 3m/day)	7 days 16 days	Sat 19/12/20 Sat 26/12/20	Fri 25/12/20 Sun 10/1/21	NA NA	NA NA		days 448 days 449	450 451	0% 0%	26/12 10/1
	Installation of grouting pipe and rail	7 days	Mon 11/1/21	Mon 18/1/21	NA NA	NA NA			452	0%	11/1 ( 18/1
	Pipe Laying Works	25 days	Tue 19/1/21	Fri 19/2/21	NA NA			days 451	453	0%	19/1 👩 19/2
	Formwork Erection and grouting works	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	NA	A -86 d	days 461SS		0%	13,4 🛮 28/4
	Pipe Jacking Operation for DN2200 MS pipe (CHAV)	80 days	Mon 18/1/21	Wed 28/4/21	NA	NA	A -147.5	days		0% (x)	18/1
	Setting Up of Entrance Ring & Gantry, and Trenchless Equipment	7 days	Mon 18/1/21	Mon 25/1/21	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			days 456	458	0% 16->30	26/1 4/3
	Installation of grouting pipe and rail	7 days 18 days	Fri 5/3/21 Sat 13/3/21	Fri 12/3/21 Wed 7/4/21	NA NA			days 457 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			idays 459	462,461	0% 10->18	8/4   12/4
		14 days	Tue 13/4/21	Wed 28/4/21	NA NA			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			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			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	NA	A -113.5	days		1%	18/7 21/3
		355 days	Sat 18/7/20	Sat 25/9/21	Sat 18/7/20		A 0 da			7%	18/7 25/9
1A	Connection pipe at UV System no.1 & Effluent Pumping Stataion no.1	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 Sat 18/7/20	NA NA		•	470 460EF	7% 15% 26	18/7 25/9
	Twin DN900 +DN2200 (CHAT, CHAU, CHAV) (+0.2mPD) (NCE, 60,62,66) DN150,350 (CHA, CHL, CHLA) Pipe Laying (+4.8mPD)	220 days 40 days	Sat 18/7/20 Tue 1/6/21	Thu 22/7/21 Thu 22/7/21	Sat 18/1/20	NA NA		•	470,469FF	0%	1/6 22/7
	CHAM, CHAN Pipe Laying (+2.0mPD)	25 days	Fri 23/7/21	Fri 20/8/21	NA NA	NA NA		•	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	NA NA		•		0%	21/8 25/9
	DN800(CHAY), DN1600 (CHAX), DN350 (CHBA) Pipe Laying (NCE no. 84)	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	Remaining Effluent Pipes & testing works	350 days	Thu 14/1/21	Mon 21/3/22	NA			days 136,288,330,196,19		0%	14/1
14		350 days	Thu 14/1/21	Mon 21/3/22	NA			days 136,288,330,187	111	0%	14/1 21/3
14 14	Sewerage Pipeworks, manhole, protective lining & testing works  Watermain Pipeworks & testing works	350 days 350 days	Thu 14/1/21 Thu 14/1/21	Mon 21/3/22 Mon 21/3/22	NA NA			days 136,288,330,193 136,288,330,190,19	111	0% 0%	14/1 21/3 14/1 21/3
14	Cable & Other Underground Utility Pipeworks	350 days	Thu 14/1/21	Mon 21/3/22	NA NA			idays 136,288,330	111	0%	14/1 21/3
4	Pipe Bridge No.1	175 days	Mon 2/8/21	Thu 3/3/22	NA NA			days 2	111	0%	2/8 3/3
	Remaining Works & Landscape Works	1261 days		Sat 16/11/24	NA		A -43.5	•		0%	8/8
5	-	970 days	Sat 8/8/20	Wed 15/11/23	NA	NA	A -43.5	days 2FS+265 days	117	0%	8/8 • 15/11
5	Hard Landscape Works	970 days	Sat 8/8/20	Wed 15/11/23	NA			days 2FS+265 days	117	0%	15/11
5	Soft Landscape Works	970 days	Sat 8/8/20	Wed 15/11/23	NA			days 2FS+265 days	489,117	0%	8/8 15/11
	Outfall for Effluent Pipes	124 days	Tue 1/11/22	Fri 31/3/23	NA	NA NA		•	117	0%	1/11 31/3
	Slope Formation Works near Outfall  Removal of invasive trees along River Embankment (NCE no. 37)	124 days 90 days	Tue 1/11/22 Wed 15/2/23	Fri 31/3/23 Wed 7/6/23	NA NA	NA NA		•	117 487	0% 0%	1/11 31/3 15/2 7/6
/5	Retaining Wall along River Embankment, (NCE no. 37)  Retaining Wall along River Embankment, street furniture & road works	90 days	Wed 15/2/23 Wed 7/6/23	Fri 22/9/23	NA	NA NA			117	0%	7/6 7/6 22/9
V5	Remaining Site formation works, road works and boundary fence wall	250 days	Mon 25/7/22	Sat 1/4/23	NA NA		A 174 c	•	117	0%	25/7
	Establishment Works (365 Calendar Days)	291 days	Thu 16/11/23	Sat 16/11/24	NA NA		A 0 da	•		0%	16/11 16/1
	onstruction of Portion A of the Site	911 days		Thu 22/12/22	Wed 27/11/19		A -18.5	•		23%	27/11 22/12



D KD Ta	ask Name	Duration	Start	Finish	Actual Start	Actual Finish Total Slack	Predecessors		% Time Risk	land land land land
									Comple Allowance	2019   2020   2021   2022   2023   2024   2025     Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q1   Q3   Q4   Q1   Q1   Q3   Q4   Q1   Q1   Q3   Q4   Q1   Q1   Q1   Q1   Q1   Q1   Q1
491 *	CLP 132kV Substation	911 days	Wed 27/11/19	Thu 22/12/22	Wed 27/11/19	NA -18.5 days			23%	27/11 22/12
492	Internal Works	752 days	Wed 27/11/19	Wed 15/6/22	Wed 27/11/19	NA 140.5 days			32%	27/11 15/6
493	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
494	Additional Tree Felling Works (NCE no.29)	4 days	Fri 20/12/19	Mon 23/12/19	Fri 20/12/19		493	496	100%	20/12   23/12
495	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
496	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
497	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
498	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
505	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
506	R.C. Structure (880 sq.m)	215 days	Fri 27/11/20	Fri 20/8/21	Fri 27/11/20	NA -90 days	204,205,206,131,20	03,	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	204,205,206,131,20	03,(508	100%	27/11   4/12
508	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
509	Ground Floor	60 days	Thu 18/2/21	Tue 4/5/21	Thu 18/2/21	NA -197.5 days	508	510	35%	18/2 4/5
510	First Floor	50 days	Wed 5/5/21	Mon 5/7/21	NA	NA -197.5 days	509	511	0%	5/5 5/7
511	Roof Floor (461sq.m)	40 days	Tue 6/7/21	Fri 20/8/21	NA	NA -197.5 days	510	512,517,513,518	F 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	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	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	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	NA -197.5 days	511	519,520,61	0%	21/8 2/11
518 KD2A	Prehandover to CLP	12 days	Wed 20/10/21	Tue 2/11/21	NA	NA -197.5 days	511FS+48 days	61	0%	20/10 2/11
519	Handover to CLP for Electrical System Installation	30 days	Wed 3/11/21	Tue 7/12/21	NA	NA 45.5 days	517	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	NA 140.5 days	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	NA 200.5 days	519	99	0%	8/12 29/3
522	ABWF Works - External Finishing	90 days	Wed 8/12/21	Tue 29/3/22	NA	NA 45.5 days	519,207,133	523	0%	8/12 29/3
523 SW2	Inspection and Handover to CLP	30 days	Wed 30/3/22	Tue 10/5/22	NA	NA 45.5 days	522	535,99	0%	30/3 🗰 10/5
524	External Works	513 days	Thu 1/4/21	Thu 22/12/22	NA	NA -18.5 days	148		0%	1/4 22/12
525	Road Widening Works (NCE no. 20)	388 days	Thu 1/4/21	Tue 26/7/22	NA	NA -18.5 days			0%	1/4 26/7
526	Trial Pit Excavation & UU Detection Works	7 days	Thu 1/4/21	Tue 13/4/21	NA	NA -18.5 days	151	527	0%	1/4 1 13/4
527	Diversion of existing UU (i.e. 3no. Street light)	60 days	Wed 14/4/21	Fri 25/6/21	NA	NA -18.5 days	526	528	0%	14,4 25/6
528	Temporary Site Access	30 days	Sat 26/6/21	Sun 25/7/21	NA	NA -22.5 days	527	530	0%	26/6 ■ 25/7
529	Drainage Works	150 days	Mon 26/7/21	Sat 22/1/22	NA	NA -18.5 days			0%	26/7 22/1
530	Trench Excavation and ELS works	60 days	Mon 26/7/21	Tue 5/10/21	NA	NA -18.5 days	528	531	0%	26/7 5/10
531	Pipe Laying Works	60 days	Wed 6/10/21	Wed 15/12/21	NA	NA -18.5 days	530	532	0%	6/10 15/12
532	Backfilling and Reinstatement Works	30 days	Thu 16/12/21	Sat 22/1/22	NA	NA -18.5 days	531	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
		125 days	Wed 27/7/22	Thu 22/12/22	NA	,		99	0%	27/7 22/12

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

[Delay of the works due to some, but not

Data Date: 31/1/2021

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]

Activity ID Key Date	Contract Dates	E/ECE/Baseline Duration 1585 days	Mon 18/11/19	Baseline Finish Thu 27/3/25	Duration 1585 days	Start Mon 18/11/19		Mon 18/11/19	ctual Finish P	Predecessors Successors	25 days	Risk Allowance % Complete Individual Critical Path  40%	2019 2020 July January July	January July Janu	uary July	January July	January July	
D-1000	Starting Date		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	35FS+146'	23 days 11 days,36FS+901 0 days	100%	<b>♦ 18/11</b>					1
D-1000	Access Dates (cal. day)	310 days	Mon 18/11/19	Wed 23/9/20	289 days	Mon 18/11/19	Wed 2/9/20	Mon 18/11/19	Wed 2/9/20	331 341401	0 days	100%	· · · · · ·			I I		1
D-1010	Portion B-1 (Access Road AR3)		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	2 207	0 days	100%	↓ ♦ 18/11			1	1	1
D-1020	Portion B-1A (Area for the works for Sidestream Treatment Facilities by Others		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					i
0-1030	Portion B-2 (Inlet Works No.1)		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	2 297,308	0 days	100%	→ 18/11			1	I I	1
0-1040	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			i	i	i
D-1050	Portion B-3 (Primary Sedimentation Tanks No. 1-4)		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	2 332	0 days	100%	<b>♦ 18/11</b>				I I	- 1
D-1060	Portion B-4 (Bioreactor No. 2A & 2B)		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	2 347	0 days	100%	<b>♦ 18/11</b>	i		i	i	i
D-1070	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	2 376,394,399	99 0 days	100%	♦ 17/3				I .	- 1
ND-1080	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	Mon 18/11/19 2	2 408	0 days	100%	<b>♦</b> 18/11	i		i	i	i
AD-1090	Portion B-7 (Ancillary structures)	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2	2 430	0 days	100%	<b>♦ 18/11</b>			1	I I	
ND-1100	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	Wed 2/9/20 2	:FS+290 days 486FS-1 da	lay,29FS+151 days0 days	100%	<b>→ 2/9</b>	i i		i	İ	i
D-1110	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 2	2FS+311 days 487FS-1 da	lay 0 days	100%	<b>♦ 26/8</b>			1	I I	
D-1020	Portion B-8A (Alternation of air supply main for existing Air Blower House No.2)	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2	2 479	0 days	100%	◆ 18/11	į į		į	į	i
D-1130	Portion B-9 (remainder works in Zone B)	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	2 488,503	0 days	100%	<b>♦</b> 18/11				I I	
AD-1140	Portion B-9A (Area for the pipe-jacking works by others)	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2	4	0 days	100%	◆ 18/11	1		1	1	1
AD-1150	Portion B-9B (Area for underground pipework modification and connection 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>♦ 18/11</b>					1
AD-1160	Portion B-9C (Area for the works for pipeworks)		Wed 22/7/20	Wed 22/7/20	0 days	Fri 24/7/20	Fri 24/7/20	Fri 24/7/20	Fri 24/7/20 2	FS+151 days	0 days	100%	♦ 24/7				I I	
(D-1000	Key Dates (cal. day)  KD14 completion of AP3 in Portion R.1 (200/days after starting date)	1440 days		Sat 28/10/23	1440 days	Tue 19/11/19	Sat 28/10/23	Tue 19/11/19	NA Sun 13/9/20 2	DES. 1 day	452 days	40% 100e/	<b>↓</b> 19/11				1	1
D-1010	KD1A completion of AR3 in Portion B-1 (300days after starting date)		Tue 19/11/19	Sun 13/9/20 Thu 12/11/20	300 days	Tue 19/11/19	Sun 13/9/20	Tue 19/11/19	Sun 13/9/20 2		0 days	100%				İ	i	i
0-1020	KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)			Thu 12/11/20	360 days	Tue 19/11/19	Thu 12/11/20	Tue 19/11/19	Thu 12/11/20 2		0 days	100%				I I	I I	1
D-1030	KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)	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 2	2FS+1 day 79	902 days	38%				1		1
D-1040	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 2	2FS+1 day	0 days	32%				<u> </u>		
D-1050	KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)	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 2	2FS+1 day 82	0 days	33%		 		<u> </u>		1
D-1060	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 2	2FS+1 day 86	20 days	0%	1 j					1
D-1070	KD1G completion of civil and structural works of MFB in Portion B-5 (930days after starting date)	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 2	2FS+1 day 90	20 days	41%			_			1
D-1080	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 2	2FS+1 day 94	0 days	60%						1
D-1090	KD11 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	NA 1	13FS+151 days	1 day	0%	 	<b>♦ 30/1</b>				1
D-1100 D-1110	KD1J 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		Tue 19/11/19 Tue 19/11/19	Wed 26/1/22 Sat 27/3/21	0 days 0 days	Wed 26/1/22 Sat 27/3/21	Wed 26/1/22 Sat 27/3/21	Wed 26/1/22 Sat 27/3/21		2FS+801 days 2FS+496 days 101	0 days	99% 99%	 	↓ ↓ 26/1 ↓ <b>◆ 27/3</b>	ı			
D-1120	Portion B-9 (495days after starting date)  KD2B completion of air supply main alternation to existing air blower house No.2 in	420 days	Tue 19/11/19	Mon 11/1/21	0 days	Mon 11/1/21	Mon 11/1/21	Mon 11/1/21	NA 2	2FS+421 days 104	0 days	99%	İ	i ♦ 11/1				İ
(D. 1400	Portion B-8A (420days after starting date)	1440 -	T 40/44/40	0-4-00/4-0/00	0 days	0-+ 00/40/00	0-4-00/40/00	0-4 00/40/00	NA (	250 4444 days	0.45	2000					30/10	1
D-1130	KD3A completion of all utilities and road works (1440days after starting date)		Tue 19/11/19	Sat 28/10/23	0 days	Sat 28/10/23	Sat 28/10/23	Sat 28/10/23		2FS+1441 days 1111	0 days	99%	1		A 6/5	♦ 28/	3/10	_ !
CD-1000	Completion Date (cal. Day)		Tue 19/11/19	Thu 27/3/25	1056 days	Fri 6/5/22	Thu 27/3/25	NA	NA NA	FD 1101 I	0 days	0%	i	i	<b>→</b> 0/5	T .		
CD-1010	Section 1 of the Works (1,460 after starting date)		Tue 19/11/19	Fri 17/11/23	0 days	Fri 17/11/23	Fri 17/11/23	NA		2FS+1461 days 117	0 days	0%	1	1		<b>♦</b> 1	17/11	1
CD-1020	Section 2 of the Works (900 after starting date)		Tue 19/11/19	Fri 6/5/22	0 days	Fri 6/5/22	Fri 6/5/22	NA		2FS+901 days 123	0 days	0%	l I		♦ 6/5	1		
CD-1030	Section 3 of the Works (1,590 after starting date)		Tue 19/11/19	Tue 26/3/24	0 days	Tue 26/3/24	Tue 26/3/24	NA			days,129,38FS+3 0 days	0%	1	1		1	<b>♦</b> 26/3	- 1
CCD-1040	Defects Liability Period  Landscape Establishment Works		Wed 27/3/24	Thu 27/3/25	0 days	Thu 27/3/25	Thu 27/3/25	NA		37FS+366 days	0 days	0%				1	l I	i
CCD-1050 PD-1000 *	Planned Completion		Wed 27/3/24 Fri 14/8/20	Thu 27/3/25 Thu 27/3/25	0 days	Thu 27/3/25 Mon 14/9/20	Thu 27/3/25 Fri 25/4/25	NA Mon 14/9/20	NA 3	37FS+366 days	29 days 0 days	0%	4 14/9	1		1		
CD-1000 *	Planned Completion - Key Dates (cal. day)		Fri 14/8/20	Sat 28/10/23	1123 days	Wed 30/9/20	Sat 28/10/23	Wed 30/9/20	NA NA		0 days	8% 0%	1				Ī	
KD-1010 KD1A			Sat 12/9/20	Sat 12/9/20	0 days	Wed 30/9/20	Wed 30/9/20	Wed 30/9/20	Wed 30/9/20 2	NEE	0 days	100%	♦ 30/9			•		
D-1010 KD1A	KD18 completion of while the commencement of Inlet Works No.1 in Portion		Fri 14/8/20	Fri 14/8/20	0 days	Thu 29/7/21	Thu 29/7/21	NA		218FF.296FF.286FF.293FF.256FF.254FF	-259 days	0%	, <b>Q</b> 30/3	♦ 29/7		i	i	i
	B-2 (360days after starting date)	o days	111 14/0/20	11114020	o days	110 23/1/21		INO.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-235 days	078	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		l I		1
D-1030 KD1C	KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)	0 days	Thu 4/8/22	Thu 4/8/22	0 days	Sat 6/8/22	Sat 6/8/22	NA	NA 3	329FF,328FF,320FF,324FF	-2 days	0%	 	!	<b>♦</b> 6/8	I I	I I	1
	(330days after starting date)					Mar. 00/0/00										. 00/0		- !
)-1040 KD1D		0 days	Mon 20/2/23	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA 3	343FF,342FF	0 days	0%	i			♦ 20/2		i
	KD1D completion of civil and structural works of Primary Sedimentation Tanks in		Mon 20/2/23 Sat 31/12/22	Mon 20/2/23 Sat 31/12/22	0 days	Mon 20/2/23 Mon 30/1/23	Mon 20/2/23 Mon 30/1/23	NA NA		343FF,342FF 367FF,368FF	0 days	0% 0%	 	i i		\$20 2 		1
D-1050 KD1E	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)  KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)	0 days								367FF,368FF			 		<b>♦</b> 5/9	→ 20/2     → 30/1		
CD-1050 KD1E CD-1060 KD1F CD-1070 KD1G	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)  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)	0 days	Sat 31/12/22	Sat 31/12/22	0 days	Mon 30/1/23	Mon 30/1/23	NA	NA 41	967FF,368FF 104FF	-30 days	0%			<b>♦</b> 5/9	◆ 202		
D-1050 KD1E D-1060 KD1F D-1070 KD1G	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)  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)	0 days 0 days 0 days	Sat 31/12/22 Tue 25/1/22	Sat 31/12/22 Tue 25/1/22	0 days	Mon 30/1/23 Mon 5/9/22	Mon 30/1/23 Mon 5/9/22	NA NA	NA 41	367FF,368FF 104FF	-30 days	0%			<ul><li>◆ 5/9</li><li>◆ 25/4</li></ul>	   <b>♦</b> 30/1		
D-1050 KD1E D-1060 KD1F D-1070 KD1G D-1080 KD1H	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)  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)  KD1G hoppietion of civil and structural works of MFB in Portion B-5 (950days after starting date)	0 days 0 days 0 days 0 days	Sat 31/12/22 Tue 25/1/22 Sat 25/6/22	Sat 31/12/22 Tue 25/1/22 Sat 25/6/22	0 days 0 days 0 days	Mon 30/1/23 Mon 5/9/22 Thu 2/2/23	Mon 30/1/23 Mon 5/9/22 Thu 2/2/23	NA NA	NA 41	367FF,368FF 104FF 105FF 128FF,427FF	-30 days -242 days -242 days	0% 0%		<b>→</b> 301	<b>♦</b> 26/4	   <b>♦</b> 30/1		
D-1050 KD1E D-1060 KD1F D-1070 KD1G D-1080 KD1H D-1090 KD11 D-1090 KD11 D-1090 KD1J	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)  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 of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1L completion of civil and structural works of SAS Pumping Station in Portion B-7 (150days after access date of B-7A)	0 days 0 days 0 days 0 days 0 days 0 days	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 31/12/22  Tue 25/1/22  Sat 25/6/22  Mon 9/8/21  Sat 30/1/21  Wed 26/1/22	0 days 0 days 0 days 0 days 0 days 0 days	Mon 30/1/23  Mon 5/9/22  Thu 2/2/23  Tue 26/4/22  Sat 30/1/21  Tue 28/12/21	Mon 30/1/23  Mon 5/9/22  Thu 2/2/23  Tue 26/4/22  Sat 30/1/21  Tue 28/12/21	NA NA NA NA	NA 41 NA 41 NA 41 NA 41 NA 41	367FF,368FF 104FF 105FF 128FF,427FF 186FF 177FF,476FF,470FF,469FF,464FF,463FF	-30 days -242 days -242 days -260 days 0 days 29 days	0% 0% 0% 0% 0%		→ 30·1 → 28·12	<b>♦</b> 26/4	   <b>♦</b> 30/1		
CD-1050 KD1E  CD-1060 KD1F  CD-1070 KD1G  CD-1080 KD1H  CD-1090 KD1I  CD-1090 KD1I	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)  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 of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1L completion of civil and structural works of SAS Pumping Station in Portion B-7 (150days after access date of B-7A)	0 days 0 days 0 days 0 days 0 days 0 days	Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21	Sat 31/12/22  Tue 25/1/22  Sat 25/6/22  Mon 9/8/21  Sat 30/1/21	0 days 0 days 0 days 0 days 0 days	Mon 30/1/23  Mon 5/9/22  Thu 2/2/23  Tue 26/4/22  Sat 30/1/21	Mon 30/1/23  Mon 5/9/22  Thu 2/2/23  Tue 26/4/22  Sat 30/1/21	NA NA NA NA	NA 41 NA 41 NA 41	367FF,368FF 104FF 105FF 128FF,427FF 186FF 177FF,476FF,470FF,469FF,464FF,463FF	-30 days -242 days -242 days -260 days 0 days	0% 0% 0% 0% 0%		<b>→</b> 301	<b>♦</b> 26/4	   <b>♦</b> 30/1		
D-1050 KD1E D-1060 KD1F D-1070 KD1G D-1080 KD1H D-1090 KD1I D-1100 KD1J D-1110 KD2A	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)  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 (690days after starting date)  KD1H completion at extracting date)  KD11 completion of civil and structural works of SAS Pumping Station in Portion B-6 (690days after starting date)  KD11 completion of divil and structural works of SAS Pumping Station in Portion B-7 (150days after access date of B-7A)  KD1J completion of diviliary facilities in Portion B-7 (800days after starting date)  KD2A completion of effluent pipes to UV system and connection to its downstream in	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	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 31/12/22  Tue 25/1/22  Sat 25/6/22  Mon 9/8/21  Sat 30/1/21  Wed 26/1/22	0 days 0 days 0 days 0 days 0 days 0 days	Mon 30/1/23  Mon 5/9/22  Thu 2/2/23  Tue 26/4/22  Sat 30/1/21  Tue 28/12/21	Mon 30/1/23  Mon 5/9/22  Thu 2/2/23  Tue 26/4/22  Sat 30/1/21  Tue 28/12/21	NA NA NA NA	NA 41 NA 41 NA 42 NA 42 NA 41 NA 41 NA 41	367FF,368FF 104FF 105FF 128FF,427FF 186FF 177FF,476FF,470FF,469FF,464FF,463FF	-30 days -242 days -242 days -260 days 0 days 29 days	0% 0% 0% 0% 0%		→ 30·1 → 28·12	<b>♦</b> 26/4	   <b>♦</b> 30/1		
D-1050 KD1E D-1060 KD1F D-1070 KD1G D-1080 KD1H D-1090 KD11 D-1100 KD1J D-1110 KD2A D-1120 KD2B D-1130 KD3A	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)  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 of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-7 (150days after access date of B-7A)  KD1J completion of afticent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)  KD26 completion of afticent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	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	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	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	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 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	NA NA NA NA NA NA NA NA	NA 41 NA 41 NA 42 NA 42 NA 41 NA 41 NA 41	367FF,368FF  104FF  105FF  128FF,427FF  186FF  177FF,476FF,470FF,469FF,464FF,463FF  189FF	-30 days -242 days -242 days -246 days 0 days 29 days -129.8 days	0% 0% 0% 0% 0% 0% 0%		◆ 30'1	<b>♦</b> 26/4	   <b>♦</b> 30/1	3/10	
D-1050 KD1E D-1060 KD1F D-1070 KD1G D-1070 KD1G D-1080 KD1H D-1090 KD1H D-1100 KD1J D-1110 KD2A D-1120 KD2B	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)  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 (630days after starting date)  KD11 completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)  KD11 completion of atternation works for existing Power House in Portion B-7A (150days after seces date of B-7A)  KD13 completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2A completion of a structural works of US system and connection to its downstream in Portion B-8 (485days after starting date)	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	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 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	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	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	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	NA NA NA NA NA NA NA NA NA NA	NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41	367FF,368FF  104FF  105FF  128FF,427FF  186FF  177FF,476FF,470FF,469FF,464FF,463FF  189FF	-30 days -242 days -242 days -260 days 0 days 29 days -129.8 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		◆ 30'1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2	3/10	
D-1050 KD1E D-1060 KD1F D-1070 KD1G D-1070 KD1H D-1090 KD1H D-1100 KD1J D-1110 KD2A D-1120 KD2B D-1130 KD3A	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)  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 (650days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (650days after starting date)  KD1L 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)  KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8 4 (420days after starting date)  KD3A completion of all utilities and road works (1440days after starting date)	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 10days 0 days	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	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	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	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	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	NA NA NA NA NA NA NA NA NA	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51	367FF,368FF  104FF  105FF  128FF,427FF  186FF  177FF,476FF,470FF,469FF,464FF,463FF  189FF	-30 days -242 days -242 days -242 days -260 days 0 days 29 days -129.8 days -168 days 0 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		◆ 30'1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2	3/10	
-1050 KD1E -1060 KD1F -1060 KD1F -1070 KD1G -1080 KD1H -1090 KD1H -1100 KD1J -11100 KD2A -1120 KD2B -1130 KD3A -1000 •	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-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)  KD11 completion of civil and structural works of Portion B-7 (150days after access date of B-7A)  KD1J 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)  KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A (425days after starting date)  KD3A completion of all utilities and road works (1440days after starting date)	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 10 days 0 days 0 days 0 days	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 s Fri 6/5/22	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	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	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	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  Fri 25/4/25	NA NA NA NA NA NA NA NA NA NA	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51 NA 51	967FF,368FF 104FF 105FF 128FF,427FF 186FF 177FF,476FF,470FF,469FF,464FF,463FF 189FF 179FF,483FF	-30 days -242 days -242 days -242 days -260 days 0 days 29 days -129.8 days -168 days 0 days 0 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2	3/10	
D-1050 KD1E D-1060 KD1F D-1070 KD1G D-1070 KD1H D-1090 KD1H D-1100 KD1H D-1100 KD2A D-1110 KD2A D-1110 KD2B D-1130 KD3B D-1000 • D-1010 SW1 D-1000 SW1	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-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 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)  KD2B completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)  KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A (420days after starting date)  KD3A completion Date (cal. Day)  Section 1 of the Works (1,460 after starting date)	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	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 S Fri 6/5/22 Wed 23/8/23	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	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 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	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  Fri 25/4/25  Fri 24/1/25	NA NA NA NA NA NA NA NA NA NA NA	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51 NA 51	967FF,368FF 104FF 105FF 105FF 128FF,427FF 186FF 177FF,476FF,470FF,469FF,464FF,463FF 179FF,483FF 179FF,483FF 171FF,485FF,459FF,453FF,446FF,440FF	-30 days -242 days -242 days -242 days -260 days 0 days 29 days -129.8 days -168 days 0 days 0 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2	28/10	i
D-1050 KD1E D-1060 KD1F D-1070 KD1G D-1080 KD1H D-1090 KD1I D-1100 KD1J D-1110 KD2A D-1120 KD2B D-1130 KD3A D-1000 • D-1010 SW1 D-1020 SW2 D-1030 SW3	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)  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 (630days 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)  KD2B completion of affitent pipes to UV system and connection to its downstream in Portion B-8 (495days after starting date)  KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A (420days after starting date)  KD3A 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)	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	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22	Sat 31/12/22  Tue 25/1/22  Sat 25/6/22  Mon 9/6/21  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	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 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	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 4/6/21  Mon 28/6/21  Sat 28/10/23  Fri 25/4/25  Fri 24/1/25  Wed 17/8/22	NA NA NA NA NA NA NA NA NA NA NA NA NA	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61	367FF,368FF 304FF 305FF 328FF,427FF 328FF,427FF 347FF,476FF,470FF,469FF,464FF,463FF 3479FF,483FF 3479FF,483FF 3479FF,483FF,483FF,483FF,484FF,440FF 3479FF,500FF,500FF,509FF,43	-30 days -242 days -242 days -242 days -260 days 0 days -129.8 days -168 days 0 days 0 days 91 days 982 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		
CD-1050 KD1E  CD-1060 KD1F  CD-1070 KD1G  CD-1070 KD1G  CD-1080 KD1H  CD-1090 KD1I  CD-1100 KD1J  CD-1110 KD2A  CD-1110 KD2A  CD-1120 KD2B  CD-1120 KD3A  CD-1090 *  CD-1090 SW1  CD-1090 SW2  CD-1090 SW2  CD-1090 SW2  CD-1090 SW3  CD-1090 SW2  CD-1090 SW3  CD-1090 SW3  CD-1090 SW3  CD-1090 SW3  CD-1090 SW3  CD-1090 SW3	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)  KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-6 (800days after starting date)  KD1F 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 afternation 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 effluent pipes to UV system and connection to its downstream in Portion B-8 (495days after starting date)  KD2B completion of air supply main afternation to existing air blower house No.2 in Portion B-8A (420days after starting date)  KD3A 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)  Section 3 of the Works (1,590 after starting date)	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	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24	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	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 30/1/23  Mon 5/9/22  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	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  Fri 25/4/25  Fri 24/1/25  Wed 17/8/22  Sat 17/8/24	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61 NA 61	367FF,368FF  104FF  105FF  128FF,427FF  186FF  177FF,476FF,470FF,469FF,464FF,463FF  189FF  179FF,483FF  171FF,465FF,459FF,453FF,446FF,440FF  197FF,500FF,501FF,499FF,3931FF  187FF,504FF,505FF,506FF,373FF,346FF	-30 days -242 days -242 days -242 days -260 days -29 days -129.8 days -168 days -149.8 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		i
CD-1050 KD1E  CD-1060 KD1F  CD-1070 KD1G  CD-1070 KD1G  CD-1080 KD1H  CD-1090 KD1H  CD-1090 KD1I  CD-1110 KD2A  CD-1110 KD2A  CD-1120 KD2A  CD-1120 KD3A  CD-1000 *  CD-1010 SW1  CD-1020 SW2  CD-1030 SW3  CD-1040 DLP  CD-1050	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-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)  KD11 completion atternation 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)  KD2B completion of effluent pipes to UV system and connection to its downstream in Portion B-8 (495days after starting date)  KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A (425days after starting date)  KD3A 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)  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	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	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25	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	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	Mon 30/1/23  Mon 5/9/22  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  Sat 17/8/24  Fri 25/4/25	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  Fri 25/4/25  Wed 17/8/22  Sat 17/8/24  Fri 25/4/25	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 31 NA 41	967FF,368FF 104FF 105FF 105FF 128FF,427FF 186FF 177FF,476FF,470FF,469FF,464FF,463FF 189FF 179FF,483FF 179FF,483FF 179FF,459FF,453FF,446FF,440FF 197FF,500FF,501FF,499FF,331FF 187FF,504FF,505FF,506FF,373FF,346FF 107FF,165FF	-30 days -242 days -242 days -242 days -260 days 0 days 29 days -129.8 days -168 days 0 days 9 days 9 days 9 days 9 days 9 days 9 days 9 days 9 days 0 days 9 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		
CD-1050 KD1E  CD-1060 KD1F  CD-1070 KD1G  CD-1070 KD1H  CD-1090 KD1H  CD-1090 KD11  CD-1110 KD2A  CD-1110 KD2A  CD-1120 KD2A  CD-1120 KD2A  CD-1120 KD3A  CD-1000 *  CD-1010 SW1  CD-1020 SW2  CD-1030 SW3  CD-1040 DLP  CD-1050  T-1000	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 (900days 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 (650days after starting date)  KD1H completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)  KD1L 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)  KD3B (exompletion of auxiliary facilities in Portion B-7 (800days after starting date)  KD3A 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)  Section 2 of the Works (900 after starting date)  Defects Liability Period  Landscape Establishment Works	0 days 0 days	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25	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	0 days 0 days	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  Fri 25/4/25  Fri 25/4/25	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  Fri 25/4/25  Fri 25/4/25  Fri 25/4/25  Fri 25/4/25	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51 NA 51 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41	967FF,368FF 104FF 105FF 105FF 128FF,427FF 186FF 177FF,476FF,470FF,469FF,464FF,463FF 189FF 179FF,483FF 179FF,483FF 179FF,459FF,453FF,446FF,440FF 197FF,500FF,501FF,499FF,331FF 187FF,504FF,505FF,506FF,373FF,346FF 107FF,165FF	-30 days -242 days -242 days -242 days -260 days 0 days 29 days -129.8 days -168 days 0 days 91 days 922 days -251 days 0 days 0 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		i
CD-1050 KD1E  CD-1060 KD1F  CD-1070 KD1G  CD-1070 KD1G  CD-1070 KD1H  CD-1100 KD1H  CD-1100 KD1J  CD-1110 KD2A  CD-1120 KD2B  CD-1120 KD2B  CD-1010 SW1  CD-1010 SW1  CD-1020 SW2  CD-1030 SW2  CD-1040 DLP  CD-1050  T1-1000  T1-1000  T1-1000  T1-1000  KD1F  KD1F  KD2F  KD	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-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)  KD11 completion atternation 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)  KD2B completion of effluent pipes to UV system and connection to its downstream in Portion B-8 (495days after starting date)  KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A (425days after starting date)  KD3A 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)  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	0 days 0 days	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA	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  Thu 27/3/25  NA	0 days 0 days	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 Wed 17/8/22 Fri 24/1/25 Wed 17/8/22 Fri 25/4/25 Mon 14/9/20	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  Fri 25/4/25  Fri 24/1/25  Yed 17/8/24  Fri 25/4/25  Fri 25/4/25  Wed 19/6/24	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 31 NA 41	967FF,368FF 104FF 105FF 105FF 128FF,427FF 186FF 177FF,476FF,470FF,469FF,464FF,463FF 189FF 179FF,483FF 179FF,483FF 179FF,459FF,453FF,446FF,440FF 197FF,500FF,501FF,499FF,331FF 187FF,504FF,505FF,506FF,373FF,346FF 107FF,165FF	-30 days -242 days -242 days -242 days -260 days 0 days 29 days -129.8 days -168 days 0 days 9 days 9 days 9 days 9 days 9 days 9 days 9 days 9 days 0 days 9 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		
CD-1050 KD1E  CD-1060 KD1F  CD-1070 KD1G  CD-1070 KD1G  CD-1080 KD1H  CD-1100 KD1I  CD-1110 KD2A  CD-1120 KD2A  CD-1120 KD2A  CD-1010 SW1  CD-1020 SW2  CD-1030 SW3  CD-1040 DLP  CD-1050  T1A-1000  T1A-1000  T1A-1100	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-5 (950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (690days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (690days after starting date)  KD11 completion of civil and structural works of SAS Pumping Station in Portion B-6 (690days after starting date)  KD11 completion of civil and structural works of SAS Pumping Station in Portion B-7 (150days after access date of B-7A)  KD11 completion of duriliary 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-8 (495days after starting date)  KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8 (495days after starting date)  KD3A 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)  Section 2 of the Works (1,460 after starting date)  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 from Inclement Weather and Other Time Affected Events	0 days 0 days	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA	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  Thu 27/3/25  NA  NA	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 10 days 10 days 1106 days 84 days	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 Mon 14/9/20 Mon 14/9/20	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  Fri 25/4/25  Fri 25/4/25  Fri 25/4/25  Fri 25/4/25  Wed 17/8/22  Wed 19/6/24  Wed 23/12/20	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 31 NA 41	367FF,368FF  104FF  105FF  128FF,427FF  186FF  177FF,476FF,470FF,469FF,464FF,463FF  189FF  179FF,483FF  502FF  171FF,465FF,459FF,453FF,446FF,440FF  197FF,500FF,501FF,499FF,438FF,331FF  187FF,504FF,505FF,506FF,373FF,346FF  107FF,165FF	-30 days -242 days -242 days -242 days -260 days 0 days 29 days -129.8 days -168 days 0 days 91 days 952 days 251 days 0 days 0 days 1282 days 1282 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		
CD-1050 KD1E CD-1060 KD1F CD-1070 KD1G CD-1080 KD1H CD-1090 KD1H CD-1100 KD1J CD-1110 KD2A CD-1120 KD2B CD-1120 KD2B CD-1120 KD2B CD-1120 SW1 CD-1010 SW1 CD-1020 SW2 CD-1030 SW3 CD-1040 DLP CD-1050 TT-1-1000 TT-1-1000 TT-1-1000 TT-1-1100 TT-1-1110	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-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 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)  KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8 (490days after starting date)  KD3A 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)  Section 2 of the Works (1,460 after starting date)  Section 3 of the Works (1,460 after starting date)  Section 3 of the Works (1,590 after starting date)  Effects from Inclement Weather and Other Time Affected Events  Effects from Inclement Weather and Other Time Affected Events  Effects from Inclement Weather and Other Time Affected Events	0 days 0 days	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA	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	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 10 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days	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  Mon 14/9/20  Mon 14/9/20  Fri 18/9/20	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  Fri 25/4/25  Fri 24/1/25  Wed 17/8/22  Sat 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	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51	367FF,368FF  104FF  105FF  105FF  128FF,427FF  186FF  177FF,476FF,470FF,469FF,464FF,463FF  189FF  179FF,483FF  502FF  171FF,465FF,459FF,453FF,446FF,440FF  197FF,500FF,501FF,499FF,438FF,331FF  187FF,504FF,505FF,506FF,373FF,346FF  107FF,165FF	-30 days -242 days -242 days -242 days -242 days -260 days 0 days -129.8 days -168 days 0 days 91 days 92 days -251 days 0 days 0 days 0 days 10 days 10 days 10 days 10 days 10 days 1282 days 1282 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		
PCD-1040 KD1D PCD-1050 KD1E PCD-1070 KD1G PCD-1070 KD1G PCD-1080 KD1H PCD-1080 KD1H PCD-1080 KD1H PCD-1090 KD1H PCD-1090 KD1H PCD-1100 KD2A PCD-1110 KD2A PCD-1110 KD2A PCD-1120 KD3A PCD-1130 KD3A PCD-1050 SW1 PCD-1050 SW2 PCD-1050 SW2 PCD-1050 SW3 PCD-	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-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)  KD1L completion of civil and structural works of SAS Pumping Station in Portion B-6 (600days after starting date)  KD1L 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)  KD2B completion of affluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)  KD2B completion of air supply main afternation to existing air blower house No.2 in Portion B-84 (425days after starting date)  KD3A completion of all utilities and road works (1440days after starting date)  Planned Completion Date (cal. Day)  Section 1 of the Works (900 after starting date)  Section 3 of the Works (900 after starting date)  Defects Liability Period  Landscape Establishment Works  Effects from Inclement Weather and Other Time Affected Events  Effects from Inclement Weather to KD1A (cal. Day)  Delay and Disruption of Works before November 2020	0 days 0 days	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA	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	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	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  Mon 14/9/20  Mon 14/9/20  Fri 18/9/20  Fri 18/9/20	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  Fri 25/4/25  Wed 17/8/22  Sat 17/8/24  Wed 23/12/20  Wed 23/12/20  Wed 23/12/20	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51 NA 51	367FF,368FF  104FF  105FF  128FF,427FF  188FF  177FF,476FF,470FF,469FF,464FF,463FF  189FF  177FF,483FF  171FF,465FF,459FF,453FF,446FF,440FF  197FF,500FF,501FF,499FF,393FF,346FF  187FF,504FF,505FF,506FF,373FF,346FF  107FF,165FF  107FF,165FF	-30 days -242 days -242 days -242 days -242 days -260 days 0 days -129.8 days -168 days 0 days 91 days 982 days -251 days 0 days 0 days 1282 days 1282 days 1282 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		i
CD-1050 KD1E CD-1060 KD1F CD-1070 KD1G CD-1070 KD1G CD-1080 KD1H CD-1090 KD1H CD-1100 KD1J CD-1110 KD2A CD-1120 KD2A CD-1120 KD2A CD-1120 SW1 CD-1020 SW2 CD-1030 SW3 CD-1040 DLP CD-1050 TT1A-1100 TT1A-1110 TT1A-1110 TT1A-1120 TT1A-1200	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-5 (950days after starting date)  KD1E 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)  KD1L completion of civil and structural works of SAS Pumping Station in Portion B-6 (600days after starting date)  KD1L completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2B completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD2B completion of all filluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)  KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-84 (420days after starting date)  KD3A completion of all utilities and road works (1440days after starting date)  Planned Completion Date (cal. Day)  Section 1 of the Works (900 after starting date)  Section 3 of the Works (900 after starting date)  Defects Liability Period  Landscape Establishment Works  Effects from Inclement Weather and Other Time Affected Events  Effects from Inclement Weather and Other Time Affected Events  Effects to KD1A  Inclement Weather to KD1A (cal. Day)	0 days 0 days	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA	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 Thu 27/3/25 NA NA NA NA NA	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	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  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  Wed 4/11/20	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  Fri 25/4/25  Wed 17/8/22  Sat 17/8/24  Fri 25/4/25  Wed 23/12/20  Wed 23/12/20  Wed 4/11/20	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51 NA 51 NA 51 NA 50 NA 50 NA 61 NA 61 Wed 4/11/20 6-	367FF,368FF  100FF  100FF  128FF,427FF  1886FF  1477FF,476FF,470FF,469FF,464FF,463FF  189FF  1477FF,483FF  1471FF,465FF,459FF,453FF,446FF,440FF  197FF,500FF,501FF,499FF,331FF  187FF,504FF,505FF,506FF,373FF,346FF  1007FF,165FF  1007FF	-30 days -242 days -242 days -242 days -242 days -260 days 0 days -129.8 days -168 days 0 days 91 days 982 days -251 days 0 days 0 days 1282 days 1282 days 1282 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		
CD-1050 KD1E CD-1060 KD1F CD-1070 KD1G CD-1070 KD1G CD-1080 KD1H CD-1090 KD1I CD-1100 KD1J CD-1110 KD2A CD-1120 KD2A CD-1120 KD2A CD-1120 KD3A CD-1010 SW1 CD-1010 SW1 CD-1010 SW2 CD-1030 SW2 CD-1030 SW3 CD-1040 DLP CD-1050 TT-1000 TT-1000 TT-1100 TT-1100 TT-1100 TT-1110 TT-1110	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)  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 (800days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)  KD1L completion of auxiliary facilities in Portion B-7 (800days after starting date)  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 facilities in Portion B-7 (800days after starting date)  KD2A completion of auxiliary facilities in Portion B-7 (800days after starting date)  KD3A completion of a supply main afternation to existing air blower house No.2 in Portion B-8 (480days after starting date)  Flanned 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)  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  Effects for KD1A  Inclement Weather to KD1A (cal. Day)  Delay and Disruption of Works for the month of November 2020  Delay and Disruption of Works for the month of November 2020	0 days 0 days	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 S Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA	Sat 31/12/22  Tue 25/1/22  Sat 25/6/22  Mon 9/6/21  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	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 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 1106 days 84 days 70 days 80 days 0 days	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  Mon 28/6/21  Sat 28/10/23  Wed 17/8/22  Fri 24/1/25  Wed 17/8/24  Fri 25/4/25  Mon 14/9/20  Mon 14/9/20  Wed 4/11/20  Mon 14/9/20	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  Fri 25/4/25  Fri 24/1/25  Wed 17/6/24  Fri 25/4/25  Fri 25/4/25  Fri 25/4/25  Wed 3/12/20  Wed 2/11/20  Wed 2/11/20  Thu 17/9/20	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 31 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 41 NA 51 NA 51 NA 51 NA 51 NA 61 NA 61 NA 61 Wed 4/11/20 6- Thu 17/9/20	367FF,368FF  100FF  100FF  128FF,427FF  1886FF  1477FF,476FF,470FF,469FF,464FF,463FF  189FF  1477FF,483FF  1471FF,465FF,459FF,453FF,446FF,440FF  197FF,500FF,501FF,499FF,331FF  187FF,504FF,505FF,506FF,373FF,346FF  1007FF,165FF  1007FF	-30 days -242 days -242 days -242 days -242 days -260 days 0 days -129.8 days -129.8 days -168 days 0 days 91 days 92 days -251 days 0 days 0 days 1282 days 1292 days 1282 days 1292 days 1292 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		◆ 30/1	<b>♦</b> 26/4	◆ 30/1  ◆ 2/2		İ

Contract No. DC/2018/07
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
[Delay of the works due to the works of

Data Date: 31/1/2021

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]

ks for Sewage Treatment F citivity ID Key Pale Task Task Task Task Task Task Task Task		CE/E CE/ Baseline Duration 0 days	NA NA NA NA NA NA NA	Baseline Finish  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	76 days 76 days 0 days 4 days 4 days	Start  Wed 18/11/20  Wed 18/11/20  Sat 20/2/21  Fri 13/11/20  Fri 13/11/20	Finish Ac Sat 20/2/21 Sat 20/2/21 Sat 20/2/21 Tue 17/11/20 Tue 17/11/20	Wed 18/11/20 Wed 18/11/20 NA	NA NA 73 NA 70 Tue 17/11/20	Successors 71	1237 days 1237 days 1237 days	Risk Allowance % Compl	lete Individual Critical Path  14%  14%  0%  100%	2019 July		2021 January July	January July	January January	July January July
T1B-1110  T1B-1120  T1B-120  T1B-120  T1B-120  T1C-1000  T1C-1100  T1C-1100  T1C-1100  T1C-1210  T1C-1210  T1E-1000  T1E-1100  T1E-1100  T1F-1100  T1F-1100  T1F-1100  T1F-1100  T1F-1100  T1F-1110  T1F-1110	Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020  Other Events to KD1B (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1C  Inclement Weather to KD1C (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020  Other Events to KD1C (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works before November 2020	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	NA NA NA NA NA NA NA	NA NA	76 days 0 days 4 days 4 days	Wed 18/11/20 Sat 20/2/21 Fri 13/11/20	Sat 20/2/21 Sat 20/2/21 Tue 17/11/20	Wed 18/11/20 NA	NA 73 NA 70	71	1237 days 1237 days		14%	July			January July	January	July January July
T1B-1110  T1B-1120  T1B-120  T1B-120  T1B-120  T1C-1000  T1C-1100  T1C-1100  T1C-1100  T1C-1210  T1C-1210  T1E-1000  T1E-1100  T1E-1100  T1F-1100  T1F-1100  T1F-1100  T1F-1100  T1F-1100  T1F-1110  T1F-1110	Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020  Other Events to KD1B (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1C  Inclement Weather to KD1C (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020  Other Events to KD1C (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works before November 2020	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	NA NA NA NA NA NA	NA NA	76 days 0 days 4 days 4 days	Sat 20/2/21 Fri 13/11/20	Sat 20/2/21 Tue 17/11/20	NA	NA 70	71	1237 days 1237 days		14%		-	i i	 	 	
T1B-1120  T1B-1210  T1B-1210  T1C-1000  T1C-1110  T1C-1110  T1C-1120  T1C-1210  T1E-1000  T1E-1100  T1E-1100  T1E-1100  T1E-1100  T1E-1110  T1E-1110  T1F-1110  T1F-1110  T1F-1110	Delay and Disruption of Works for the month of November 2020  Other Events to KD1B (not ali)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1C  Inclement Weather to KD1C (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020  Other Events to KD1C (not ali)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works before November 2020	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	NA NA NA NA	NA NA	0 days 4 days 4 days	Sat 20/2/21 Fri 13/11/20	Sat 20/2/21 Tue 17/11/20	NA	NA 70	, ,	1237 days		0%			i i	T T		
T1B-1200  T1B-1210  T1C-1000  T1C-1100  T1C-1110  T1C-1120  T1C-1210  T1C-1210  T1E-1000  T1E-1110  T1E-1110  T1E-1110  T1E-1110  T1E-1110  T1F-1110  T1F-1110  T1F-1110	Other Events to KD1B (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1C  Inclement Weather to KD1C (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the morth of November 2020  Other Events to KD1C (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	NA NA NA	NA	4 days 4 days	Fri 13/11/20	Tue 17/11/20							1		<b>♥</b> 20/2	1	1	
T1B-1210  T1C-1000  T1C-1100  T1C-1110  T1C-1110  T1C-1120  T1C-1200  T1C-1210  T1E-1000  T1E-1110  T1E-1110  T1E-1110  T1F-1120  T1F-1100  T1F-1110  T1F-1110	Special working arrangement due to COVID-19 in January 2020  Effects to KD1C  Inclement Weather to KD1C (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020  Other Events to KD1C (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days 0 days 0 days 0 days 0 days 0 days 0 days	NA NA NA	NA NA	4 days			Fri 13/11/20	Tue 17/11/20					'					
11C-1000 11C-1100 11C-1110 11C-1120 11C-1200 11C-1210 11E-1000 11E-1100 11E-1100 11E-1110 11E-1110 11E-1110 11E-1110 11E-1110 11E-1110 11E-1110 11E-1110 11E-1110 11E-1110	Effects to KD1C  Inclement Weather to KD1C (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020  Other Events to KD1C (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days 0 days 0 days 0 days 0 days	NA NA	NA NA		Fri 13/11/20	Tuo 17/11/20				0 days				•			1	i i
10-1100 110-1110 110-1110 110-1120 110-1200 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210 110-1210	Inclement Weather to KD1C (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020  Other Events to KD1C (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days 0 days 0 days 0 days	NA	NA	80 days		106 17/11/20	Fri 13/11/20	Tue 17/11/20 22	70	0 days		100%	i i	1	i	i	i	i i
10-1110 10-1120 10-1200 10-1210 10-1210 11-1000 11-1100 11-1100 11-1100 11-1100 11-1100 11-1100 11-1100 11-1100 11-1100	Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020  Other Events to KD1C (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days 0 days 0 days				Fri 5/8/22	Wed 9/11/22	NA	NA		727 days		0%	1				1	
1C-1120 1C-1200 1C-1210 1C-1210 1E-1000 1E-1100 1E-1110 1E-1120 1F-1100 1F-1110 1F-1110	Delay and Disruption of Works for the month of November 2020  Other Events to KD1C (not all)  Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days	NA	NA	76 days	Wed 10/8/22	Wed 9/11/22	NA	NA		727 days		0%	1				4	
11C-1200 11C-1210 11E-1000 11E-1100 11E-1110 11E-1110 11E-1100 11F-1110 11F-1110	Other Events to KD1C (not all) Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days		NA	76 days	Wed 10/8/22	Wed 9/11/22	NA	NA 79	77	727 days		0%	1 !				4.1	1
11C-1200 11C-1210 11E-1000 11E-1100 11E-1110 11E-1110 11E-1100 11F-1110 11F-1110	Other Events to KD1C (not all) Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  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%	-		 	-	◆ 9/11	
1C-1210 1E-1000 1E-1100 1E-1110 1E-1120 1F-1000 1F-1100 1F-1110 1F-1110	Special working arrangement due to COVID-19 in January 2020  Effects to KD1E  Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020			NΔ				NA.	NA					- i		i i		,	i i
1E-1000 1E-1100 1E-1110 1E-1120 1F-1000 1F-1110 1F-1110	Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	o dave			4 days	Fri 5/8/22	Tue 9/8/22	NA			727 days		0%	- !				1	1
T1E-1100  T1E-1110  T1E-1120  T1F-1000  T1F-1110  T1F-1110	Inclement Weather to KD1E (cal. Day)  Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	o days	NA	NA	4 days	Fri 5/8/22	Tue 9/8/22	NA	NA 23	76	727 days		0%	1 1		 			
T1E-1110  T1E-1120  T1F-1000  T1F-1110  T1F-1110  T1F-1120	Delay and Disruption of Works before November 2020  Delay and Disruption of Works for the month of November 2020	0 days	NA	NA	8 days	Tue 3/1/23	Wed 11/1/23	NA	NA		676 days		0%	1		l I	1	II.	1
T1E-1120  T1F-1000  T1F-1110  T1F-1110  T1F-1120	Delay and Disruption of Works for the month of November 2020	0 days	NA	NA	8 days	Tue 3/1/23	Wed 11/1/23	NA	NA		676 days		0%	1 :		 			
T1F-1000 T1F-1100 T1F-1110 T1F-1120		0 days	NA	NA	8 days	Tue 3/1/23	Wed 11/1/23	NA	NA 25	83	676 days		0%	1 :				in the second	i i
T1F-1000 T1F-1100 T1F-1110 T1F-1120		0 days	NA	NA	0 days	Wed 11/1/23	Wed 11/1/23	NA	NA 82		676 days		0%	- !			1	◆ 11/1	1
T1F-1100 T1F-1110 T1F-1120		0 days		NA	71 days	Fri 7/1/22	Sat 2/4/22	NA	NA		905 days		0%				_	1.	
T1F-1110 T1F-1120	Inclement Weather to KD1F (cal. Day)	0 days		NΔ	71 days	Fri 7/1/22	Sat 2/4/22	NΔ	NA		905 days		0%	i		I I	<u> </u>	İ	i i
T1F-1120										07				- !		 		1	
	Delay and Disruption of Works before November 2020	0 days	NA	NA	71 days	Fri 7/1/22	Sat 2/4/22	NA	NA 26	87	905 days		0%					i	i i
T1G-1000	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%	1		l I	<b>♦</b> 2/4	1	1
	Effects to KD1G	0 days	NA	NA	71 days	Mon 6/6/22	Sat 27/8/22	NA	NA		787 days		0%			 		I I	
Γ1G-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	
Γ1G-1110	Delay and Disruption of Works before November 2020	0 days	NA	NA	71 days	Mon 6/6/22	Sat 27/8/22	NA	NA 27	91	787 days		0%	1 !				I .	
Γ1G-1120	Delay and Disruption of Works for the month of November 2020	0 days		NA	0 days	Sat 27/8/22	Sat 27/8/22	NA	NA 90		787 days		0%	-			<b>♦</b> 27/8	a I	
T1H-1000	Effects to KD1H			NA		Tue 10/8/21	Wed 3/11/21	NA NA	NA NA		1028 days		0%	i				1	i i
		0 days		NA.	71 days			NA						- !			·	I I	
T1H-1100	Inclement Weather to KD1H (cal. Day)	0 days		NA	71 days	Tue 10/8/21	Wed 3/11/21	NA	NA		1028 days		0%					i	i
T1H-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%	1			F 1	1	1
T1H-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%			¦	→ 3/11	I I	
T2A-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	i i
T2A-1100	Inclement Weather to KD2A (cal. Day)	0 days		NA	75 days	Tue 6/4/21	Tue 6/7/21	NA	NA		1128 days		0%	1				I I	
T2A-1110	Delay and Disruption of Works before November 2020	0 days		NA	75 days	Tue 6/4/21	Tue 6/7/21	NA	NA 101	99	1128 days		0%	-				Ĺ	
T2A-1120	Delay and Disruption of Works for the month of November 2020	0 days		NΔ	0 days	Tue 6/7/21	Tue 6/7/21	NΔ	NA 98		1128 days		0%	- !		♦ 6/7	1	1	1
T2A-1200	Other Events to KD2A (not all)	0 days		NA.	4 days	Mon 29/3/21	Thu 1/4/21	NA.	NA NA		1128 days		0%	- 1					
																1	1	1	1
T2A-1210	Special working arrangement due to COVID-19 in January 2020	0 days		NA	4 days	Mon 29/3/21	Thu 1/4/21	NA	NA 31	98	1128 days		0%			<b> </b> 		l I	
T2A-1000	Effects to KD2B	0 days		NA	72 days	Tue 12/1/21	Mon 12/4/21	NA	NA		1197 days		0%	i			i	i	i i
T2A-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%	1 :				1	
Γ2A-1110	Delay and Disruption of Works before November 2020	0 days	NA	NA	72 days	Tue 12/1/21	Mon 12/4/21	NA	NA 32	105	1197 days		0%	i			i	i	i i
T2A-1120	Delay and Disruption of Works for the month of November 2020	0 days	NA	NA	0 days	Mon 12/4/21	Mon 12/4/21	NA	NA 104		1197 days		0%	1 :		♦ 12/4		1	1
T3A-1000	Effects to KD3A	0 days	NA	NA	80 days	Mon 30/10/23	Fri 2/2/24	NA	NA		361 days		0%				İ	i	
Γ3A-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%	1			1	1	
Γ3A-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%	- :					
Γ3A-1120	Delay and Disruption of Works for the month of November 2020	0 days		NA	0 days	Fri 2/2/24	Fri 2/2/24	NA	NA 108		361 days		0%	- i		i	i	i	<b>♦</b> 2/2
T3A-1200	Other Events to KD3A (not all)					Mon 30/10/23		NA.	NA NA				0%	-					
	Special working arrangement due to COVID-19 in January 2020	0 days		INA	4 days		Thu 2/11/23	NA NA			361 days			_ i		i	i	i	· • i
T3A-1210	, , , , , , , , , , , , , , , , , , ,	0 days		NA .	4 days	Mon 30/10/23	Thu 2/11/23		NA 33	108	361 days		0%					1	
TS1-1000	Effects to Section 1 of the Works	0 days		NA	73 days	Sat 18/11/23	Sat 17/2/24	NA	NA		351 days		0%	i		i	i	i	
TS1-1100	Inclement Weather to Section 1 of the Works (cal. Day)	0 days		NA	69 days	Thu 23/11/23	Sat 17/2/24	NA	NA		351 days		0%			 		1	
TS1-1110	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%	i		i	i	i	
TS1-1120	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	♦ 17/2
TS1-1200	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 :					
TS1-1210	Special working arrangement due to COVID-19 in January 2020	0 days	NA	NA	4 days	Sat 18/11/23	Wed 22/11/23	NA	NA 35	114	351 days		0%	1		l I	1	1	1 1
TS2-1000	Effects to Section 2 of the Works	0 days	NA	NA	64 days	Sat 7/5/22	Sat 23/7/22	NA	NA		817 days		0%			 		1	
ΓS2-1100	Inclement Weather to Section 2 of the Works (cal. Day)	0 days		NA	60 days	Fri 13/5/22	Sat 23/7/22	NA	NA		817 days		0%	i		i		i	i i
	` '									104				- !			The state of the s	1	
'S2-1110	Delay and Disruption of Works before November 2020	0 days		NA	60 days	Fri 13/5/22	Sat 23/7/22	NA	NA 123	121	817 days		0%	1				I I	
S2-1120	Delay and Disruption of Works for the month of November 2020	0 days		NA	0 days	Sat 23/7/22	Sat 23/7/22	NA	NA 120		817 days		0%			i	→ 23/7	1	į
S2-1200	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	
S2-1210	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 1			i i i	i	i
S3-1000	Effects to Section 3 of the Works	0 days	NA	NA	59 days	Wed 27/3/24	Wed 19/6/24	NA	NA		260 days		0%	i		l I	1	1	
TS3-1100	Inclement Weather to Section 3 of the Works (cal. Day)	0 days	NA	NA	55 days	Sat 13/4/24	Wed 19/6/24	NA	NA		260 days		0%			 	l I	i I	
TS3-1110	Delay and Disruption of Works before November 2020	0 days		NA	55 days	Sat 13/4/24	Wed 19/6/24	NA	NA 129	127	260 days		0%	- i		i i	Į.	!	
TS3-1110	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 Wed 19/6/24	NA	NA 126		260 days		0%	- !		l I I I		I I	<b>♦</b> 19/6
				NA.				INM	NA 126					1		i	i	i	₩ 19/0
TS3-1200	Other Events to Section 3 of the Works (not all)	0 days		NA.	4 days	Wed 27/3/24	Wed 3/4/24	NA		100	260 days		0%	-		 	l I	I I	
TS3-1210  UB-1000 Subi	Special working arrangement due to COVID-19 in January 2020	0 days		NA 29/2/24	4 days	Wed 27/3/24	Wed 3/4/24	NA Mon 19/11/10	NA 37	126	260 days		0%				1	1	<u> </u>
	bmissions (cal.day) Subletting Package		Mon 18/11/19  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	Mon 18/11/19 Mon 18/11/19	NA NA		30 days 628 days		49% 74%					1	
JBS-1010 S	Prepare & submit subletting procedure		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	133	0 days		100%				I I	I I	1
JBS-1020	PM review and accept subletting procedure		Sat 30/11/19	Wed 11/12/19	12 days	Sat 30/11/19	Wed 11/12/19		Ved 11/12/19 132	154,134,137,136,135	0 days		100%	- 1			İ	ĺ	
JBS-1030	Subletting for demolition works	24 days		Sat 4/1/20	93 days	Tue 17/12/19	Wed 11/12/19 Wed 18/3/20		Wed 18/3/20 133,166	336,431,297,376,486,355			100%				I I	I I	
BS-1030 BS-1040	-																	i I	
	Subletting for UU diversion for Inlet Works No.1	24 days	Thu 12/12/19	Sat 4/1/20	78 days	Fri 10/1/20	Fri 27/3/20	Fri 10/1/20	Fri 27/3/20 133	218	0 days		100%				1	1	į
BS-1050	Subletting for Inspection pit excavation	0 days	NA	NA	56 days	Thu 19/12/19	Wed 12/2/20		Wed 12/2/20 133,166	220,138	0 days		100%					I I	
BS-1060	Subletting for Preliminary Works (topographic surveying)	14 days		Wed 25/12/19	54 days	Fri 20/12/19	Tue 11/2/20	Fri 20/12/19	Tue 11/2/20 133,166	171,204,141,142,143,139			100%			i	i	i	i
BS-1070	Subletting for AR3 access road	24 days		Sat 4/1/20	0 days	Fri 13/12/19	Tue 11/2/20	Fri 13/12/19	Tue 11/2/20 136	139,216	0 days		100%				1	1	
BS-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%					İ	
JBS-1090	Subletting for Contractor designer for temporary works and ICE	24 days	Thu 12/12/19	Sat 4/1/20	71 days	Mon 16/12/19	Mon 24/2/20	Mon 16/12/19	Mon 24/2/20 139	341,366,426,433,442,449	0,45 0 days		100%	•		l I	1	!	į
JBS-1100	Subletting for independent BIM consultant	24 days	Thu 12/12/19	4/1/120	0 days	Wed 11/12/19	Thu 23/1/20	Wed 11/12/19	Thu 23/1/20 137	199	0 days		100%	<b>+</b>			I I	I I	
UBS-1110	Subletting for independent BIM services	0 days	NA	NA	15 days	Tue 14/1/20	Wed 26/2/20	Tue 14/1/20	Wed 26/2/20 137	199	0 days		100%	1		i	i	i	i
JBS-1120	Subletting for Design, Supply & Install of Temporary Activated Carbon Deodorization	0 days	NA	NA	0 days	Fri 13/12/19	Tue 11/2/20	Fri 13/12/19	Tue 11/2/20 137	144,145	0 days		100%	1 +		I I I I	I I	1	
	Units (E&M Works)															i	İ	i	
JBS-1130	Subletting for pre-bored H pile works	36 days		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%					1	1
BS-1140	Subletting for Sheetpile installation works	0 days		NA	45 days	Tue 1/9/20	Thu 15/10/20		Thu 15/10/20 143	311,339,364,425,146,147			100%					ĺ	
BS-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%				1	1	<u> </u>

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

Revised Works Progra
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

[Delay of the works due to some, but not

Data Date: 31/1/2021

Revised Works Programme (Status Date: 31/1/2021)
The Latest Company of the Company of

Vorks for Sewage Treat		ECE/Page!!	Bacelina Ct	Bacclina Finink	Duratio-	Stort	Einigh .	ctual Stort	letual Einich Prodossoom	Gunnanawa	Total Slack Diak *!!	% Complete Individual Critical Path 2019	0000	2021 2022 2022
ctivity ID Key Date UBS-1160		ECE/Baseline Duration		Baseline Finish	Duration 49 days	Start			Actual Finish Predecessors	Successors	Total Slack Risk Allowance		July January July	2021 2022 2023 2024 January July January July January July January July
BS-1160 BS-1170	Subletting for ELS works for Membrance Facilities Building and other buildings  Subletting for structural works for Inlet Works Building		Sun 5/1/20 Thu 12/12/19	Fri 21/2/20 Tue 28/1/20	48 days 48 days	Fri 16/10/20 Thu 3/12/20	Wed 2/12/20 Tue 19/1/21	Fri 16/10/20	NA 145 NA 147	341,366,426,148,149,150,15 316	5 -73 days 225 days	96%	SS	
S-1170	Subletting for structural works for Primary Sedimentation Tanks		Thu 12/12/19	Tue 28/1/20	48 days	Thu 3/12/20	Tue 19/1/21	NA NA	NA 147		647 days	0%	l I	
1190	Subletting for structural works for Primary Sedimentation Tanks		Thu 12/12/19	Tue 28/1/20	48 days	Thu 3/12/20	Tue 19/1/21	NA NA	NA 147	367	462 days	0%	į	
1200	Subletting for structural works for Membrance Facilities Building		Thu 12/12/19	Tue 28/1/20	48 days	Thu 3/12/20	Tue 19/1/21	NA NA	NA 147	400	177 days	0%		
1210	Subletting for structural works for SAS pumping house and ancillary structures		Thu 12/12/19	Tue 28/1/20	48 days	Thu 3/12/20	Tue 19/1/21	NΔ	NA 147	427,153	-30 days	0%	1	
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	NA 152	330,344,372,429,440,446,45		0%	l I	
-1230	Subletting for Process Pipeworks, Utilities and Roadworks		Thu 12/12/19	Tue 28/1/20	150 days	Fri 22/5/20	Sun 18/10/20	Fri 22/5/20		479,489,497,498,499,500,50		100%		
BS-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%		
BS-1250	Subletting for Trial dewatering works and installation of additional stop logs at BR2	0 days	NA NA	NA NA	15 days	Tue 15/9/20	Tue 29/9/20	Tue 15/9/20		349	0 days	100%	1	
	connon channel due to malfucntioned of existing penstock at FST no. 5 and 7 (EWN	,.		1		100 100 0			1.00				-	
	555)												1	
SUBS-1260	Subletting for Diversion of Power supply for existing Slaghter House pump station (CE 034)	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%		
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%		
1270	station switch room (PMI 039)	o days	ivo.	NA.	14 days	WOT 21/3/20	3011 4/10/20	WOII E II 3/ EU	Sul 4/10/20	711	o days	100/8	•	
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%	-	
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	Wed 21/10/20	412,423	0 days	100%	_	
SUBS-1300	Subletting for Demolition of Existing Pillar box and its concrete plinth (CE 030)	0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20	413	0 days	100%	-	
SUBS-1310	Subletting for Excavation to locate existing underground cable near SAS Pump Station	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%	_	
	(PPMI 038)												_	
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		0 days	100%	-	
UBA-1000	Statutory Submission, Submission and Approval		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%	1	
JBA-1010	Liaison with operator of SWHSTW and obtain their consent of associated method statement of major activities	0 days	NA	NA	1584 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA 2	59FF	26 days	19%		
UBA-1020	Prepare and submit Subcontractor Management Plan (SMP)	24 davs	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%		
SUBA-1030	Prepare and submit Interface Management Plan		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%		
JBA-1040	Prepare and submit the TTA plans inside Treatment Plant for UU diversion and		Mon 18/11/19	Wed 11/12/19	24 days	Mon 18/11/19	Wed 11/12/19				0 days	100%		
	buildings construction	24 udys	ANO. 10/11/13		24 days	MOI 10/11/13	11/12/19						-	
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%	- 1	
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%	•	
SUBA-1070	Prepare and submit combine underground services drawing for PM's review the	24 days	Thu 26/12/19	Sat 18/1/20	23 days	Thu 26/12/19	Sat 18/1/20	Thu 26/12/19	Sat 18/1/20 137		0 days	100%	<u> </u>	
	alignment												I I	
SUBA-1080	Prepare and submit method statement for demolition existing structures		Mon 18/11/19	Wed 11/12/19	66 days	Mon 18/11/19	Wed 22/1/20	Mon 18/11/19		376,336,431,297,486,355	0 days	100%		
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	Mon 1/6/20 2		0 days	100%		
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%		
SUBA-1110	Prepare and submit & approve Safety Management Plan	24 days	Mon 18/11/19	Wed 11/12/19	3 days	Mon 18/11/19	Wed 20/11/19	Mon 18/11/19	Wed 20/11/19 2		0 days	100%	1	
SUBA-1110	Prepare and submit Excavation and lateral support (ELS) proposal		Mon 10/2/20	Wed 1//12/19 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 0 days	100%		
SUBA-1120 SUBA-1130											·			
	Prepare and submit Dewatering proposal for basement construction		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%		
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%		
SUBA-1150	Prepare and submit Settlement and movement monitoring proposal of existing	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%		i i i i i
	structures/ services													
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%		
SUBA-1170		180 dave	Mon 18/10/21	Fri 15/4/22	180 dave	Mon 18/10/21	Fri 15/4/22	N/A	NA	487	660 days	0%	1	
00DA-11/0	Prepare of RSE and structural design for alternation and additional (A&A) works at Membrane Facilities Building No.1	160 days	WUII 16/10/21	FII 13/4/22	180 days	IVIUI1 16/10/21	rn 15/4/22	NA	1924	407	660 days	0.70		
SUBA-1180	Prepare of RSE and structural design for alternation and additional (A&A) works at	44 days	Wed 15/7/20	Thu 3/9/20	60 days	Mon 6/7/20	Thu 3/9/20	Mon 6/7/20	Thu 3/9/20	486	0 days	100%	-	
	Main Power House													
SUBE-1000	Environmental Aspect Submissions		Mon 18/11/19	Wed 1/1/20	81 days	Mon 18/11/19	Thu 6/2/20	Mon 18/11/19	Thu 6/2/20		0 days	100%		
SUBE-1010	Prepare, submit & approve Site Management Plan for Trip Tricket System		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%		
SUBE-1020	Prepare, submit & approve Waste Management Plan		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%		
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		Mon 18/11/19	Fri 29/11/19	2 days	Mon 18/11/19	Tue 19/11/19		Tue 19/11/19 2		0 days	100%	1	
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%	<b>■</b> 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	Tue 10/3/20 189	218,479,498,499,501,500,49	9 0 days	100%	_	
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%	·	
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%		
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%		
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%		
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 189	330,344,372,429,440,446,45	5 831 days	0%	I I	
SUBP-1090	Prepare, submit and approve the protective lining to concrete	0 days	NA	NA	48 days	Tue 1/9/20	Sun 18/10/20	Tue 1/9/20	Sun 18/10/20 189	316,367,427,400	0 days	100%		
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	Mon 25/5/20 189		0 days	100%		
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%	<u> </u>	
SUBB-1010	Prepare, submit and approve the proposal of details of Common data environment	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%		
	(CDE)								M 16-		40.1			
0.4000	Prepare and submit BIM submission		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%		
-1000 *	Construction Works (Working day)		Mon 18/11/19	Thu 27/3/25	1986 days?	Mon 18/11/19	Fri 25/4/25	Mon 18/11/19	NA M 07/4/00		0 days?	28%		
PW-1000	Preliminary Works		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%		
PW-1000	Initial Survey		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		0 days	100%	1	
W-2000	Condition Survey		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%		
PW-3000	Installation of Monitoring Markers		Wed 5/2/20	Thu 5/3/20	78 days	Fri 29/11/19	Thu 5/3/20	Fri 29/11/19	Thu 5/3/20 204		0 days	100%		
PW-4000	Tree Felling Works	,-	NA	NA	40 days	Sat 7/3/20	Mon 27/4/20	Sat 7/3/20	Mon 27/4/20 204		0 days	100%		
R-0000 *	Access Road (AR3), B-1		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%		
AR-1000	Site setup and clearance wroks		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%	_	
AR-1001	Awaiting for AECOM instruction for alignment confirmation for road works (PPMI 008)	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	
AR-1002	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	211	0 days	100%	1	
	DC/2016/07	o uays			- days	u 2 1/3/20	MON ESPORES	7110 £ 173720						
	Drainage and Utilities Works	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	212	0 days	100%		
AR-2000	Trimming of Existing Sheet Piles in Access Road AR3 051	0 days	NA	NA	20 days	Tue 14/7/20	Wed 5/8/20	Tue 14/7/20	Wed 5/8/20 211		0 days	100%	- I	
	Tritilling of Existing Sheet Files III Access Hoad And		NA	NA	7 days	Fri 28/8/20	Fri 4/9/20	Fri 28/8/20	Fri 4/9/20 212		0 days	100%		
CAR-2000a	Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated 053				1								-	
AR-2000a AR-2000b										0.10	O dovo	100%	- I	
CAR-2000a CAR-2000b	Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated 053	036 0 days	NA	NA	172 days	Thu 5/3/20	Wed 30/9/20	Thu 5/3/20	Wed 30/9/20 213	216	0 days		_	
CAR-2000a CAR-2000b	Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1		NA NA	NA NA	172 days 60 days	Thu 5/3/20 Thu 12/12/19	Wed 30/9/20 Wed 26/2/20	Thu 5/3/20 Thu 12/12/19	Wed 30/9/20 213 Wed 26/2/20	216	0 days	100%	+	
CAR-2000  CAR-2000a  CAR-2000b  CAR-2001  CAR-2002  CAR-3000  KD1A	Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1  Diversion of Existing Underground Cables in Portion B-1A	036 0 days 0 days	NA NA Wed 10/6/20						Wed 26/2/20	216				

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

Data Date: 31/1/2021

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]

	Treatment Fac		NCE/ECE/	Baseline Bas	seline Start	Baseline Finish	Duration	Start	Finish A	ctual Start A	ctual Finish Predec	essors Successors	Total Slack	Risk Allowance %	Complete	Individual Critical Path	2019	2020 nuary July	2021	2022 January July	2023	2024
V-0000 *	Date	et Works No.1, B-2		Duration 854 days Mor		Mon 21/11/22	888 days?	Tue 26/11/19	Wed 23/11/22	Tue 26/11/19	NA		715 days?		40%		July Jan	nuary July	January July	January July	January July	January
IW-1000		Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes,		180 days Mor	on 6/1/20	Fri 14/8/20	459 days?	Tue 26/11/19	Wed 16/6/21	Tue 26/11/19	NA 190,13	43FF	36 days?		49%			1	İ	i I	i I	i I
CIW-1100	'	Tank Drains and Pipelines near Primary Sludge Thinkeners)		12 days	on 6/1/20	Sat 18/1/20	0	E# 10/10/02	Pot 40/4/00	Fri 13/12/19	Sat 18/1/20 170	220SS,222	O dou-		4000/		<u> </u>	1	1	I I	1	1
CIW-1100		Utilities scanning to idenify existing UU arrangement  Trial pits to locate the collection points			on 6/1/20 on 6/1/20	Sat 18/1/20 Wed 5/2/20	0 days 0 days	Fri 13/12/19 Mon 6/1/20	Sat 18/1/20 Tue 10/3/20	Mon 6/1/20	Sat 18/1/20 1/0 Tue 10/3/20 170,21		0 days 257 0 days		100%			į	I	I I	1	1
CIW-1300		Installation and Commissioning of Temporary Activated Carbon Deodorization		0 days NA	· · ·	NA	98 days	Wed 11/3/20	Sat 11/7/20	Wed 11/3/20	Sat 11/7/20		0 days		100%				İ			
		Unit for the Existing Inlet Works																- I	I I	I I	1	I I
CIW-1310		Construction of concrete plinth		0 days NA		NA	24 days	Wed 11/3/20	Wed 8/4/20	Wed 11/3/20	Wed 8/4/20 219	223	0 days		100%		į •	• i	I	I I	1	I
CIW-1320		Installation of Deodorizer		0 days NA		NA	40 days	Thu 9/4/20	Sat 30/5/20	Thu 9/4/20	Sat 30/5/20 222	224	0 days		100%			_	İ		İ	1
CIW-1330		Testing & commissioning		0 days NA		NA NA	15 days	Mon 1/6/20	Wed 17/6/20	Mon 1/6/20	Wed 17/6/20 223	225FS-1 day	0 days		100%		1	-		1	1	1
CIW-1340 CIW-1400		Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4		0 days NA 146 days Thu	11 6/2/20	NA Mon 3/8/20	20 days 354 days?	Wed 17/6/20 Tue 18/2/20	Sat 11/7/20 Wed 28/4/21	Wed 17/6/20 Tue 18/2/20	Sat 11/7/20 224FS	oay	0 days		100%		i <b>.</b>	-	i	i	į	į
C144-1400		Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)		140 uays Thu	u 0/2/20	WIU11 3/8/20	554 days?	rue 18/2/20	wea 28/4/21	rue 16/2/20	NA		u days?		41%				1	I I	1	I I
CIW-1405		Joint Initial Survey arrangement with MTRCL (NCE)		0 days NA		NA	92 days	Tue 18/2/20	Wed 10/6/20	Tue 18/2/20	Wed 10/6/20	228	0 days		100%		1 =	_	1	I I	I I	1
CIW-1410		Remedial Works for uncharted sludge Pipe leakage		0 days NA		NA	1 day	Sat 14/3/20	Sat 14/3/20	Sat 14/3/20	Sat 14/3/20 227	229	0 days		100%			i i	i	i	į	i
CIW-1420		Diversion of uncharted DN250 sludge pipe		0 days NA		NA	32 days	Sat 14/3/20	Fri 24/4/20	Sat 14/3/20	Fri 24/4/20 228	236,230,231	0 days		100%			_	I I	I I	1	I I
CIW-1421		Diversion of uncharted 2' water pipe		0 days NA		NA	9 days	Wed 15/4/20	Fri 24/4/20	Wed 15/4/20	Fri 24/4/20 229	236	0 days		100%		I I	1	I I		1	I I
CIW-1422		Additional Underground Utility Scanning for existing sludge pipe		0 days NA		NA NA	1 day	Sat 18/4/20	Sat 18/4/20	Sat 18/4/20	Sat 18/4/20 229	040.000	0 days		100%					1	į	į
CIW-1423		HV Cable Diversion for Inlet Works  Exposing Removal and Diversion of Existing Cables pear Inlet Works No. 1		0 days NA		NA	121 days	Sat 10/10/20 Tue 9/3/21	Mon 8/3/21 Tue 9/3/21	Sat 10/10/20 NA	NA NA 232	310,233	0 days -94 days?		0%				<u>≥1</u>	I I	I I	1
CIW-1424		Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System		0 days NA 0 days NA		NA NA	1 day? 102 days	Mon 28/9/20	Sat 30/1/21	Mon 28/9/20	NA 232 NA	309,310,268,279,28			0%		1		1	I I	1	1
CIW-1424		Demolition of Deodorization System and Facilities between Existing Primary		0 days NA		NA	1 day	Fri 28/8/20	Fri 28/8/20	Fri 28/8/20	Fri 28/8/20	000,010,200,270,20	0 days		100%			1				
		Sludge Thickeners and Primary Sludge Pump Pit																1	I I	I I	I I	1
CIW-1430		Removal of concrete surround and uncharted sludge pipe		0 days NA		NA	20 days	Fri 24/4/20	Tue 19/5/20	Fri 24/4/20	Tue 19/5/20 229,23		0 days		100%			-	I I		I I	1
CIW-1440			021	0 days NA	6/2/22	NA Mon 2/8/20	10 days	Fri 8/5/20	Tue 19/5/20	Fri 8/5/20	Tue 19/5/20 236	238,239	0 days		100%							
CIW-1450 CIW-1450a		Trench Excavation for 1800mm dia pipeline and manholes  Sheetoile installation (on hold due to identification of uncharted obstruction).	045		u 6/2/20	Mon 3/8/20	208 days	Wed 20/5/20	Tue 26/1/21	Wed 20/5/20	NA 220,23 Thu 18/6/20 237	240	-61 days		84% 100%				I I	I I	I I	1
CIVY-140UA		Sheetpile installation (on hold due to identification of uncharted obstruction)	U+0	0 days NA	•	INM	26 days	Wed 20/5/20	Thu 18/6/20	Wed 20/5/20	111u 16/6/20/23/	240	0 days		100%		į	-	I	I I	I I	1
CIW-1450b		Trench Excavation for 1800mm dia pipeline and manholes		45 days Thu	u 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%			-	İ		İ	
CIW-1450c			045	0 days NA		NA	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%			-	I I	I I	1	1
CIW-1450d		Removal of existing DSD drawpits near IRC & exposure of CLP calbes with installation of additional temporary support	051	0 days NA		NA	26 days	Thu 16/7/20	Fri 14/8/20	Thu 16/7/20	Fri 14/8/20		0 days		100%		į	-	I	I	1	1
CIW-1450e		Removal of uncharted concrete surround and pipes near MHA01 and	045	0 days NA		NA	10 days	Fri 7/8/20	Tue 18/8/20	Fri 7/8/20	Tue 18/8/20	244,249	0 days		100%				İ		İ	i I
		Sheetpile installation					ĺ						,					1	I I	I I	I I	I I
CIW-1450f				0 days NA		NA	7 days	Mon 28/9/20	Wed 7/10/20	Mon 28/9/20	Wed 7/10/20 243,24	245	0 days		100%		į	_•	İ	I I	1	1
CIW-1450g		Grade 200 Rockfill below the Formation level of the proposed pipe between MHA01 and MHA02	072,07079	0 days NA		NA	28 days	Tue 11/8/20	Fri 11/9/20	Tue 11/8/20	Fri 11/9/20 244	247	0 days		100%			-	I	I I	l I	1
CIW-1450h		Grade 200 Rockfill in ELS cofferdam of IRC	161	0 days NA		NA	28 days	Tue 22/12/20	Tue 26/1/21	NA	NA	247	-61 days		0%			<u> </u>	I I	I I	1	1
CIW-1451		Construct M/H MHA01, MHA02, MHA04 and Inlet Reception Chamber		65 days Mor	on 30/3/20	Fri 19/6/20	88 days	Tue 27/10/20	Wed 28/4/21	Tue 27/10/20	NA 245,24	,248,250,246 283	-194 days		34%		į	⊠	.02220	I I	1	1
CIW-1452			022 052	0 days NA		NA	6 days	Tue 1/9/20	Mon 7/9/20	Tue 1/9/20	Mon 7/9/20	247	0 days		100%			1	1	l I	l I	T.
CIW-1453		Additional Works for Manhole MHA01 Constructin and Pipe Connection to Manhole MHA01	094,14	0 days NA		NA	123 days	Wed 16/9/20	Tue 16/2/21	Wed 16/9/20	NA 241,24	247	-76 days		0%				3 I 1	I I	1	1
CIW-1454		Additional Works for IRC and Pipe Connection to IRC from Existing Manhole	096	0 days NA		NA	17 days	Fri 18/9/20	Fri 9/10/20	Fri 18/9/20	Fri 9/10/20	251,253,247	0 days		100%		į		1	I I	1	1
		FMH1004115										,,						- 1	I I	I I	l I	1
CIW-1455				0 days NA		NA	3 days	Mon 19/10/20	Wed 21/10/20	Mon 19/10/20	Wed 21/10/20 250		0 days		100%		1	1 1	1	I I	1	1
CIW-1456			077 065		* 20/6/20	NA Man 20/7/00	1 day	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20	250	0 days		100%		į		'	I	1	1
CIW-1457	ID1B	Lay 1800mm dia concretre pipe  Connection to existing Inlet Chamber			t 20/6/20 e 21/7/20	Mon 20/7/20 Mon 3/8/20	88 days 12 days	Thu 17/9/20 Tue 26/1/21	Mon 25/1/21 Mon 8/2/21	Thu 17/9/20	NA 240,24 NA 253	,250 254 43FF,309	-72 days		0%				, 1	I I	1	1
CIW-1458 KI		Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain		150 days Thu		Fri 7/8/20	495 days	Tue 26/11/19	Thu 29/7/21	Tue 26/11/19	NA 253	40FF,3U3	0 days		51%		1		1	I I	1	I
CIW-1510 KI	D1B	Diversion of Tank Drain MHD8.5 (approx. 70m CHES1 & CHES2)		150 days Thu		Fri 7/8/20	63 days	Sat 19/9/20	Fri 4/12/20	Sat 19/9/20	NA 278	43FF,309	-19 days		94%		·	22223		I I	I I	1
CIW-1500a		Diversion of Tank Drain MHD9.5 to MHA04 (approx. 70m 675mm dia conrete		150 days Thu		Fri 7/8/20	475 days	Tue 26/11/19	Tue 6/7/21	Tue 26/11/19	NA 220		0 days		57%		<u> </u>					1
		pipe, 24m DN250 DI leachate rising main, 90m CHES1&S2 DN250 CI )																1	I I	I I	I I	I I
CIW-1500b		Joint Initial Survey arrangement with MTRCL (NCE)		0 days NA		NA	158 days	Tue 26/11/19	Wed 10/6/20	Tue 26/11/19	Wed 10/6/20		0 days		100%		i		I	I I	I I	
CIW-1500b		Site Clearance & inspection pit excavation under conforming alignments		0 days NA		NA NA	36 days	Fri 12/6/20		Fri 12/6/20	Sat 25/7/20		0 days		100%		i		Ī		İ	ĺ
CIW-1511		Tank Drain Diversion near MTRCL track		0 days NA	١	NA	193 days	Thu 11/6/20		Thu 11/6/20	NA		0 days		75%			<u> </u>	I I	I I	I I	1
CIW-1511a				0 days NA		NA	12 days	Mon 27/7/20	Sat 8/8/20	Mon 27/7/20	Sat 8/8/20	262,266	0 days		100%		į		I	1	1	1
CIW-1511b		Uncharted cables found near MTRC track and identification	044	0 days NA		NA	1 day	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20 261		0 days		100%			1	İ		İ	İ
CIW-1511c		Excavation of trial pit near MHD8.5		0 days NA		NA	5 days	Fri 19/6/20	Wed 24/6/20	Fri 19/6/20	Wed 24/6/20	264	0 days		100%			1	I I	I I	1	1
CIW-1511d				0 days NA		NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20 263	265	0 days		100%		1		1		1	1
CIW-1511e		Excavation of Trial Pits near Manhle MHA04 and MH09		0 days NA		NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20 264		0 days		100%			_	İ	İ	i I	i I
CIW-1511f CIW-1511g				0 days NA		NA NA	25 days	Fri 21/8/20	Fri 18/9/20	Fri 21/8/20	Fri 18/9/20 261	267 270	0 days		100%		1	- 1	I I	I I	1	1
CIW-1511g				0 days NA 0 days NA		NA NA	19 days 61 days	Tue 8/9/20 Wed 18/11/20	Tue 29/9/20 Sat 30/1/21	Tue 8/9/20 Wed 18/11/20	Tue 29/9/20 266 NA 234	2/0	0 days -65 days		100%		i	1	I	I I	1	
CIW-1511ii		Compliance Test for DN675 and DN825 Precast concrete pipe		0 days NA		NA	1 day	Fri 18/12/20	Fri 18/12/20	NA NA	NA NA	272	-31 days		0%			1,	İ	Ì	İ	i
CIW-1512		Additional Special manhole for tank drain (NCE)		0 days NA		NA	35 days	Mon 24/8/20		Mon 24/8/20	Mon 5/10/20 267	271,272	0 days		100%			_	I I	I I	I I	I
CIW-1513		Breaking of concrete surround of cables (0.8mx0.8mx70m) (NCE)		0 days NA		NA	60 days	Tue 6/10/20	Tue 15/12/20	Tue 6/10/20	NA 270		-28 days		78%		į	2222	1	I I	I I	1
CIW-1514 KI	(D1B	Construction of tank drain along revised alignment (NCE)		0 days NA		NA	221 days	Tue 6/10/20	Tue 6/7/21	Tue 6/10/20	NA 270,26	273SS+80 days,43f	-,309 -189 days		21%			222 222	<i></i>	I I	l I	l I
CIW-1515		Replacement of rock fill material (NCE)		0 days NA		NA	105 days	Tue 12/1/21	Sat 22/5/21	NA	NA 272SS		-158 days		0%		1		2/222	1	1	1
CIW-1516		Backfilling with concrete bedding (NCE)		0 days NA		NA	30 days	Thu 22/4/21	Fri 28/5/21	NA	NA 273SS	80 days	-158 days		0%		į	į	<u>⊠</u>	1	1	1
CIW-1520		Diversion of Sludge Pipes			e 21/4/20	Tue 21/7/20	364 days	Mon 11/5/20		Mon 11/5/20	NA NA		0 days		42%					l I	l I	1
CIW-1520a CIW-1520b				0 days NA 75 days Tue	e 21/4/20	NA Tue 21/7/20	103 days	Mon 11/5/20 Wed 15/7/20	Wed 9/9/20 Sat 18/7/20	Mon 11/5/20 Wed 15/7/20	Wed 9/9/20 Sat 18/7/20 276	277 278	0 days		100%		1		I I	I I	1	1
OU>CI - vvi∪		Trench excavation for twin DN250 sludge pipe and stopped by AECOM  Additional hole drilling works and identification of connetion point		75 days Tue 0 days NA	0 Z 1/4/ZU	Tue 21/7/20 NA	4 days 53 days	Wed 15/7/20 Mon 20/7/20	Sat 18/7/20 Fri 18/9/20	Wed 15/7/20 Mon 20/7/20	Sat 18/7/20 276 Fri 18/9/20 277	278 256	0 days		100%		į		1	I I	1	I
CIW-1520c				0 days NA		NA NA	60 days	Mon 1/2/21	Sat 17/4/21	NA	NA 234	230	-125 days		0%					I I	1	1
				0 days NA		NA	50 days	Mon 1/2/21	Tue 6/4/21	NA NA	NA 234		-115 days		0%		1		2/2	I I	1	1
CIW-1520d				0 days NA		NA	2 days	Tue 10/11/20		Tue 10/11/20		282	0 days		100%		i	1 1	I	1	1	1
CIW-1520d CIW-1520e																			1	I I	I I	1
CIW-1520c CIW-1520d CIW-1520e CIW-1520f				0 days NA		NA E : 0 THOS	253 days	Sat 19/9/20	Thu 29/7/21	Sat 19/9/20	NA 281	43FF,309	-209 days		23%		į	<i></i>		I I	1	1
CIW-1520d CIW-1520e CIW-1520f CIW-1520g KI		Resumption and construction of sludge pipe construction				Fri 3/7/20	60 days	Thu 29/4/21	Mon 12/7/21 Wed 31/3/21	NA Thu 19/3/20	NA 247	43FF,309	-194 days		0%				2222			
CIW-1520d  CIW-1520e  CIW-1520f  CIW-1520g KI  CIW-1530 KI		Diversion of Leachate Rising Main		1EC d	u 0/2/20	Fri 14/8/20	307 days	Thu 19/3/20	wea 31/3/21	Thu 19/3/20	NA		0 days		48%		<b>  !</b>			I I	1	1
CIW-1520d CIW-1520e CIW-1520f				156 days Thu																		
CIW-1520d  CIW-1520e  CIW-1520f  CIW-1520g KI  CIW-1530 KI		Diversion of Leachate Rising Main  Diversion of pipelines near Primary Studge Thickeners (approx. 180m long 150mm to 375mm concrete pipes)  Trench Excavation from MH MHD1E to MHD5 (approx. 90m long with MHs			u 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 days	0 days		100%		1	1	1		1	1
CIW-1520d CIW-1520e CIW-1520f CIW-1520f CIW-1520 KI CIW-1530 KI CIW-1610		Diversion of Leachate Rising Main  Diversion of pipelines near Primary Studge Thickeners (approx. 180m long 150mm to 375mm concrete pipes)  Trench Excavation from MH MHD1E to MHD5 (approx. 90m long with MHs MHD1A, 18, 1C, 1D & 1E)		60 days Thu	u 6/2/20												 		 	 	 	 
CIW-1520d CIW-1520e CIW-1520f CIW-1520g KI CIW-1530 KI		Diversion of Leachate Rising Main  Diversion of pipelines near Primary Studge Thickeners (approx. 180m long 150mm to 375mm concrete pipes)  Trench Excavation from MH MHD1E to MHD5 (approx. 90m long with MHs		60 days Thu		Mon 20/4/20 Sat 13/6/20 NA	50 days 50 days 20 days	Sat 28/3/20 Tue 2/6/20 Sat 1/8/20	Fri 31/7/20	Sat 28/3/20 Tue 2/6/20 Sat 1/8/20	Fri 31/7/20	13 days 43FF,293,287 286,289	0 days 0 days 0 days		100% 100% 100%		 	_			 	

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]

ek Wu Hui Effluent Polishing F									[Delay of the works due to some, but not all of, NCE,		amme]									
I Works for Sewage Treatmer  Activity ID Key Ta		CE/Baseline	Baseline Start	Baseline Finish	Duration	Start	Finish Ad	ctual Start	Actual Finish Predecessors	Successors	Total Slack	Risk Allowance	% Complete	Individual Critical Path 2019	2020	2021	2022	2023	2024	$\overline{}$
Date CIW-1622		Duration 039 0 days	NA NA	NA	60 days	Tue 25/8/20	Thu 5/11/20	Tue 25/8/20	NA 287		6 days	. non , arowallor	% Complete	July	January July	January July	January July	January July	January July	Jan
OIV-1022	DSD/ST1	000 0 days	140	NA.	oo days	100 23/0/20	1110 3/11/20	100 23/0/20	140,207		o days		1376		1	1 1	1	1	I	1
CIW-1623	Pipeline Diversion Works near Primary Sludge Thickening Tank 114	0 days	NA	NA	30 days	Tue 25/8/20	Mon 28/9/20	NA	NA 287	290,291	-5 days		0%		SS	1 1			1	- 1
CIW-1624	Uncharted underground utilities at Proposed MHD5B 126	0 days	NA	NA	41 days	Thu 12/11/20	Thu 31/12/20	NA	NA 289	291SS+15 days	-40 days		0%			N I				i
								147							I .	1 1	T.	1	T	1
CIW-1625	Uncharted underground utilities near Proposed MHD5B 141	0 days	NA	NA	26 days	Mon 30/11/20	Thu 31/12/20	NA	NA 290SS+15 days,289	292	-40 days		0%			N .	1	1	1	- !
CIW-1630	Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs M1A 012 to M3B)	60 days	Tue 21/4/20	Fri 3/7/20	32 days	Thu 19/3/20	Wed 29/4/20	Thu 19/3/20	Wed 29/4/20 291	293,294	0 days		100%			1 1			I	- 1
	,														_	ii	i	i	i	i i
CIW-1640		058 25 days		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	I	T	T	1
CIW-1650	Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with M/Hs MHD5A 8.5R)	50 days	Thu 16/7/20	Fri 11/9/20	50 days	Wed 2/9/20	Mon 2/11/20	Wed 2/9/20	Mon 2/11/20 292,298,303,304,305,307	331SS	0 days		100%			1 1				1
	a 35)														 	i i				- 1
CIW-1660	Provision of Pumping System from Screen to Flume Channel	87 0 days	NA	NA	90 days	Tue 10/11/20	Mon 1/3/21	Tue 10/11/20	NA	296	-87 days		0%			77777	i	i	i	i
G CIW-1670 KD1B	Manholes construction and Pipe laying	45 days	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%		l 🔯	1.1 <i>I</i> SI	I	1	T	1
7 CIW-2000	Decommission and Demolition of Existing Faciliates and Structures	240 days	s 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%			1 1			1	- !
B CIW-2100	Primary Sludge Thickening Tank No.1 and No.2	80 days		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%							
			NIA.	NA												i i	i	i	i	i
CIW-2101	Additional Works for Temporary Diversion of Bypass Pipe near Primary Sludge 012 Thickeners	0 days	NA	NA	45 days	Thu 19/3/20	Sun 17/5/20	Thu 19/3/20	Sun 17/5/20		0 days		100%			1 1	T.	1	1	- 1
CIW-2110	Removal of E&M equipment of primary sludge thickening tank 020	0 days	NA	NA	1 day	Thu 4/6/20	Thu 4/6/20	Thu 4/6/20	Thu 4/6/20	301	0 days		100%		 	1 1	I I			
CIW-2120			Mon 2/3/20		1					303					<u>'</u>	ii	i	i	i	i
	Decommission and Demolition the tank 052	80 days	MON 2/3/20	Tue 9/6/20	27 days	Thu 18/6/20	Tue 21/7/20	Thu 18/6/20		303	0 days		100%		_	1 1	1	1	1	1
CIW-2130	Demolition of structure no.2	0 days	NA	NA	24 days	Mon 18/5/20	Mon 22/6/20	Mon 18/5/20	Mon 22/6/20		0 days		100%							
CIW-2200	Primary Sludge Pump Pit	60 days	Wed 10/6/20	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	i		i	
CIW-2300	Septic Tank	50 days	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%		I	1 1	T	1	1	- 1
CIW-2400	Diesel Tank	50 days	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%			1 1	1		I .	1
CIW-2410	Transfers of Remaining Diesel Fuel of Existing Diesel Tank 001	0 days	NΔ	NA	15 days	Thu 2/7/20	Tue 21/7/20	Thu 2/7/20		307	0 days		100%			1 1	I I	i	1	
CIW-2420			Word 21/10/20					Wed 12/8/20	Tue 1/9/20 306	294						i i	1	1	T	i
	Demolition of diesel tank	50 days		Fri 18/12/20	18 days	Wed 12/8/20	Tue 1/9/20			234	0 days		100%		<u> </u>	1 1	<u> </u>	1	1	1
CIW-3000 *	Inlet Works No.1 Building	569 days	s 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%			<del>-</del>	_	1	1	1
CIW-3100	Predrilling (32nrs, 3rigs, 2.5days/drillhole/rig)	40 days	Mon 4/1/21	Mon 22/2/21	27 days	Tue 15/9/20	Mon 30/8/21	Tue 15/9/20	NA 254,256,272,282,283,234	310SS+40 days	1081 days	1	0%			i i =		i	i	1
CIW-3200	Pre-bored H piles (167nos, 2rigs, 2days/rig/pile)	133 days	s 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	-23 days	5	0%		l .		I	1	1	i
CIW-3300	Sheetpile Installation ( 3,840sq.m, 1rigs, 50sqm/rig/day)	80 days		Wed 30/6/21	80 days	Fri 23/7/21	Wed 27/10/21	NA	NA 310SS+110 days,145	313	-23 days		0%		1	20000		T.	1	1
CIW-3400	Pile Load Test	26 days		Fri 3/9/21	21 days	Thu 19/8/21	Sat 11/9/21	NA NA	NA 310	313,314,315,318	13 days		0%		1 		1		I I	
								147		010,014,010,010		_				i i -	i	1	i	i
3 CIW-3500	ELS works (strutting 4 layers, excavate soil 7445cu.m)	77 days		Mon 6/12/21	77 days	Sat 2/10/21	Tue 4/1/22	NA	NA 311,310,146,312		0 days	,	0%		1	!!!		1	1	1
CIW-3510	Phrase C (Grid A1 to G3) - Excavation to -3.3mPD and blinding	77 days	Fri 4/6/21	Mon 6/12/21	77 days	Sat 2/10/21	Tue 4/1/22	NA	NA 312		978 days		0%		I I			1	I I	1
CIW-3520	Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding	77 days	Fri 4/6/21	Mon 6/12/21	77 days	Sat 2/10/21	Tue 4/1/22	NA	NA 312	322,326	-2 days		0%		i I	SSS	222	i	i	1
GIW-3600	R.C. Structure works	296 days	s 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%		I	1 1	T.	1	1	1
CIW-3610	Phase A (Grid G3 to L7)	105 days	s Thu 5/8/21	Wed 8/12/21	105 days	Thu 2/9/21	Sat 8/1/22	NA	NA		167 days		0%		1	1 1	1	1	1	1
CIW-3611	Rebar fix and formwork and concreting for the pile cap (G/F)	40 days	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			
CIW-3612	Rebar fix and formwork and concreting upto +13.45mPD (1/F)			Fri 22/10/21			Tue 30/11/21	NA.	NA 318	320	158 days		0%		I		<u>.</u> i	i	i	i
		25 days			25 days	Tue 2/11/21		INA							1	1 1		1	1	1
CIW-3613	Rebar fix and formwork and concreting upto +25.80mPD (R/F)		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%		 	1 1				
CIW-3620	Phase B (Gride A1 to G3) (621 sqm)	193 days	s Tue 7/12/21	Thu 4/8/22	193 days	Wed 5/1/22	Tue 30/8/22	NA	NA		0 days		0%		1	ii			i	i
CIW-3621	Rebar fix and formwork and concreting for the Inlet Works structure upto	54 days	Tue 7/12/21	Mon 14/2/22	54 days	Wed 5/1/22	Fri 11/3/22	NA	NA 315	323	-2 days		0%		I	1 1	2222	1	T	- 1
	Ground Level														1	1 1	<u> </u>	1	1	1
CIW-3622	Apply waterproofing membrance and backfilling	14 days	Tue 15/2/22	Wed 2/3/22	14 days	Sat 12/3/22	Mon 28/3/22	NA	NA 322,191	324	-2 days		0%		I I	1 1		ļ I	1	
4 CIW-3623	Rebar fix and formwork and concreting for the Inlet Works structure upto Roof	105 days	s 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%		I	i i		i	i	i i
	Level														l .	1 1	1	1	1	1
5 CIW-3630	Phase C (G1 to L3) (662 sqm)	260 days	s Thu 16/9/21	Thu 4/8/22	260 days	Wed 5/1/22	Sat 19/11/22	NA	NA		0 days		0%		 	1 1				
6 CIW-3631	Rebar fix and formwork and concreting for the Inlet Works structure upto	54 days	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%		1	ii	0000		i	- 1
	Ground Level														I	1 1	I	1	T	1
7 CIW-3632	Apply waterproofing membrance and backfilling	14 days	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%		1	1 1	□ □	1	1	1.
B CIW-3633 KD1C	Rebar fix and formwork and concreting for the Inlet Works structure upto Roof		s 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%		 	1 1				
	Level				100 000,0						,-		-			ii			i	i i
9 CIW-3700 KD1C	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Thu 4/8/22	Thu 4/8/22	0 days	Sat 6/8/22	Sat 6/8/22	NA	NA 328,324	44FF	-2 days		0%		I	1 1	♦ 6/8	1	1	1
80 CIW-3800 SW1	ABWF works + BS works	90 days	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 CIW-3900 SW2	Process Pipe CHE chainage 0-20 & CHF chainage 0-20	0 days	NA	NA	0 days	Wed 2/9/20	Wed 2/9/20	Wed 2/9/20		57FF	0 days		100%		A 2/0	1 1			i	- 1
										3/FF					<b>♦</b> 2/9	i i	i	i	i	i i
CPS-0000 *	Primary Sedimentation Tanks, B-3	1115 day	ys 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	4	1
CPS-1000	Operation of the Existing Primary sedimentation Tanks	615 days	s 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%							
CPS-1100	Identification of existing cables near Primiary Sedimentation Tank	88 0 days	NA	NA	65 days	Mon 26/7/21	Mon 11/10/21	NA	NA 333	335	0 days		0%		1	82223	i		i	
CPS-1200	Reinstatement and re-commissioning of existing Primary Sedimentation Tank No. 4	0 days	NA	NA	35 days	Tue 12/10/21	Mon 22/11/21	NA	NA 334	336	0 days		0%		I	N 1	4	T	T	1
	and 6 (by others)														I I	1 1	I	1	I I	
6 CPS-2000	Demolition of existing primary sedimentation tanks no. 1 & 2	45 days	Mon 13/12/21	Wed 9/2/22	45 days	Tue 23/11/21	Mon 17/1/22	NA	NA 134,172,174,335	337	0 days		0%		1 			1	I	- 1
CPS-3000	Predrilling (68nrs, 3rigs, 3days/drillhole/rig)	38 days		Fri 25/3/22	38 days	Tue 18/1/22	Sat 5/3/22	NA	NA 336,139,422	338	0 days	1	0%		I			1	I	i
B CPS-4000	Pre-bored H piles (205nos, 4rigs, 2days/pile/rig)		s Sat 26/3/22	Mon 1/8/22	102 days	Mon 7/3/22	Tue 12/7/22	NA NA	NA 337,144,423	339FS-40 days,341,340		5	0%		1	1 1		1	1	1
											0 days	<u> </u>			I I	1 1		I I	I I	1
CPS-5000	Sheetpile Installation (FSP-II, 3360sq.m, 1rigs, 50sqm/rig/day)	85 days		Fri 2/9/22	85 days	Wed 25/5/22	Fri 2/9/22	NA	NA 338FS-40 days,145	341	0 days		0%					i	i	i
CPS-6000	Pile Load Test	26 days	Tue 2/8/22	Wed 31/8/22	26 days	Wed 13/7/22	Thu 11/8/22	NA	NA 338	341	19 days		0%		Į.	i i	_	1	1	- 1
CPS-7000	ELS works (20000cu.m soil with 2 layers wailing / strutting)	45 days	Sat 3/9/22	Fri 28/10/22	45 days	Sat 3/9/22	Fri 28/10/22	NA	NA 338,147,340,339,140	342	0 days	3	0%		1	1 1	EXX	1	I	1
CPS-8000 KD1D	R.C. Structure works	92 days	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%		ı İ		EX	2222	i I	1
CPS-9000 KD1D	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	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%		I	i		<b>♦</b> 20/2	1	i
CPS-10000 SW1	ABWF works + BS works		s Tue 21/2/23	Wed 23/8/23	150 days	Tue 21/2/23	Wed 23/8/23	NA NA	NA 342,195,153	56FF	495 days		0%		1	1 1	1	<b>V</b> 202	1	1
										56FF					t I	1 1	I I		I I	1
CPS-11000 SW1	Flowmeter Chamber no.1	60 days	Tue 21/2/23	Sat 6/5/23	60 days	Tue 21/2/23	Sat 6/5/23	NA NA	NA 342		585 days		0%		I	ii	I		_1	i
CPS-12000 SW3	Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHI chainage 0-95 & CHJ chianage 0-40	0 days	NA	NA	255 days	Tue 21/2/23	Fri 29/12/23	NA	NA 342	58FF	390 days		0%		I .	1 1	1		4	1
ODD occo	· ·			0-140/0/0-	4500	N 1041	Financia	11. 45	NA 2		70 .:				1	1 1		1	1	
CBR-0000 *	Bioreactors No.2A & 2B, B-4		ys Mon 18/11/19	Sat 12/8/23	1532 days	Mon 18/11/19	Fri 24/1/25	Mon 18/11/19			78 days		18%		1	ı i	T	T	T	
CBR-1000	Operation of 2no. Existing 800mm air mains over bioreactor no.2	360 days	Mon 18/11/19	Wed 11/11/20	360 days	Mon 18/11/19	Wed 11/11/20	Mon 18/11/19	Wed 11/11/20 2	351FF	0 days		100%			1 1	I	1	1	1
CBR-2000	Construction of Removable Steel Shutter in the Common Channel of BR2 and 3	67 0 days	NA	NA	80 days	Thu 1/10/20	Fri 8/1/21	Thu 1/10/20	NA 156	350	1251 days		41%			<b>.</b>		I .	1	1
	Construction of Isolation Wall in Existing common channel of BR2 (PPMI 061)	0 days	NA	NA	20 days	Sat 9/1/21	Mon 1/2/21	NA	NA 349		1251 days		0%		1 			i I	I	1
CBR-4000	Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge	0 days	NA	NA	90 days	Wed 13/1/21	Wed 5/5/21	NA	NA 348FF	352FF	1178 days		0%		I		i	i	İ	i
"	pipes	,-			34,5			. •			,-		376		I .	1 1	1	1	1	1
CBR-4100	Take Down E&M Equipment in Bioreactor BR2 and Return to DSD 55	95 0 days	NA	NA	164 days	Thu 15/10/20	Thu 6/5/21	Thu 15/10/20	NA 351FF		1177 days		0%		_		1	1	I	- 1
CBR-4200	* *	219 0 days	NΔ	NA NA	10 days	Sat 30/1/21	Wed 10/2/21	Sat 30/1/21	NA 359	354	0 days		0%			Lil			i	
	**		NA.												I	1 11	I	1	T	i
CBR-4300	Condition Survey for BR2 (NCE)	0 days	NA	NA	1 day	Thu 11/2/21	Thu 11/2/21	NA	NA 353	360	0 days		0%		l ·	1.4		1	1	1
	Demolition of existing bioreactor no.2	60 days	Wed 3/2/21	Tue 20/4/21	50 days	Sat 19/12/20	Mon 22/2/21	Tue 10/11/20	NA 134,172,174		1236 days		42%		1	1 1	l I	1	I I	- 1
CBR-5000	Identification and removal of existing cables 121	0 days	NA	NA	35 days	Tue 10/11/20	Sat 19/12/20	Tue 10/11/20	Sat 19/12/20	358,357	0 days		100%		1			i I	i I	- 1
		0 days	NA	NA	29 days	Mon 21/12/20	Tue 26/1/21	Mon 21/12/20	Tue 26/1/21 356	360	0 days		100%		I	<u>-</u> i	I	1	1	i
CBR-5100	Diversion of existing lighting cable and Earthing ducts (NCE)			NA NA	4 days	Mon 28/12/20	Thu 31/12/20	Mon 28/12/20			0 days		100%		I .	1 !	1	1	1	1
CBR-5100 CBR-5200		91 0 4000		LVC	+ days	WIUT 20/12/20	1110 31/12/20								1	1 1	T.	1	1	1
CBR-5100 CBR-5200 CBR-5300	Plugging and demolition of existing DN800 air main	91 0 days	NA				144													
CBR-5100  CBR-5200  CBR-5300  CBR-5400		91 0 days 0 days	NA NA	NA	20 days	Tue 19/1/21	Wed 10/2/21	Tue 19/1/21	NA	360,353	0 days		0%							- 1
CBR-5100  CBR-5200  CBR-5300  CBR-5400	Plugging and demolition of existing DN800 air main		NA	NA Fri 12/3/21		Tue 19/1/21 Fri 29/1/21	Wed 10/2/21 Thu 25/3/21	Tue 19/1/21 Fri 29/1/21	NA NA 357,354,359	360,353 362	-21 days		0%		 	l.q.	 			
CBR-5100  CBR-5200  CBR-5300  CBR-5400  CBR-5500	Plugging and demolition of existing DN800 air main  Overflow incident from BR1 to BR2 works area  77	0 days	NA Wed 3/2/21		20 days					,					 	1.4.		 	 	
5 CBR-5000 5 CBR-5100 7 CBR-5200 3 CBR-5300 9 CBR-5400 0 CBR-5600 CBR-6000	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)	0 days 30 days	NA Wed 3/2/21 Fri 12/3/21	Fri 12/3/21	20 days 45 days	Fri 29/1/21	Thu 25/3/21	Fri 29/1/21	NA 357,354,359	,	-21 days	1	0%		 	1.4.	•		 	1

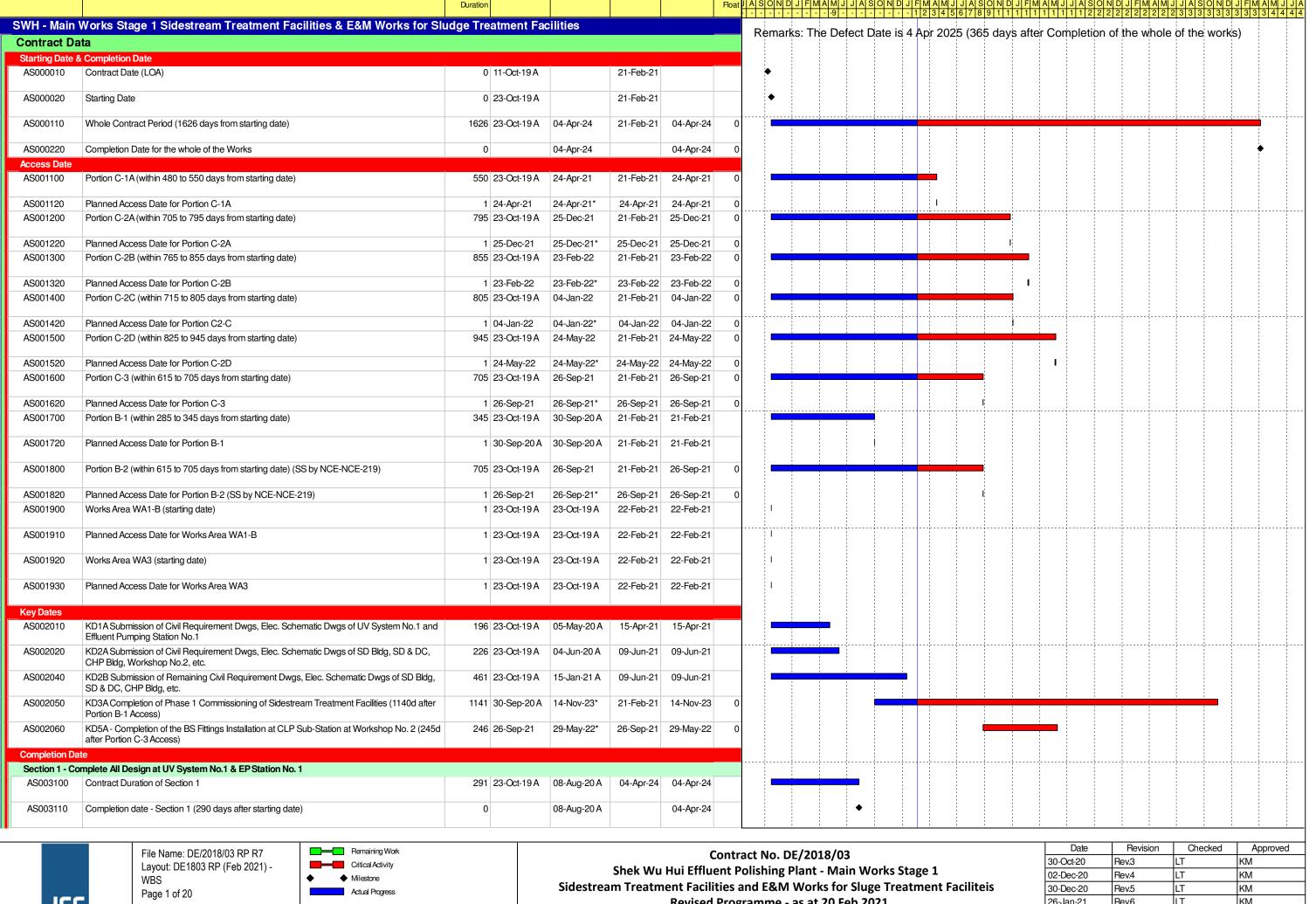
Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Revised Works Programme (Status Date: 31/1/2021)
[Delay of the works due to some, but not all of, NCE/CE/EWN are shown in this programme] Civil Works for Sewage Treatr ID Activity ID Key Date Task Name Total Slack Risk 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 Hipiles (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 -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 R.C. Structure works 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 Mon 30/1/23 Sat 31/12/22 0 days 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 NA 367,195,153 ABWF works + BS works 180 days Tue 3/1/23 Sat 12/8/23 Tue 31/1/23 Wed 6/9/23 180 days 483 days Process Pipe CHQ chainage 65-170, CHP chainage 60-130, CHO chainage 65-140, CHL chainage 0-35 & CHK chianane 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 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 3/4/20 378 380 CMF-1300 Additional dismantling works to retain specified electrical and mechanical equipment 013 0 days 21 days Tue 7/4/20 Wed 6/5/20 Tue 7/4/20 Wed 6/5/20 379 0 days Additional pluging works for DN 1200 Conc. S&S pipe at wash water pumping 015 0 days 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 Diversion of wash water mair 032 0 days Fri 10/7/20 383 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 63 days Tue 16/6/20 Sat 29/8/20 Tue 16/6/20 Sat 29/8/20 0 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 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 -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 146 days 398 CMF-6200 Pharse B (A6 to N10) - Excavation to -1.9mPD and blinding 169 days Wed 17/2/21 Thu 9/9/21 100 days Tue 1/6/21 Tue 28/9/2 NA 395SS 0% MFB -33 days 399 CMF-7000 232 days Fri 10/9/21 RC Structure works 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 25/1/22 112 days Tue 15/3/22 Mon 1/8/22 NA 151.192.193.196.194.39 401SS+30 days.402.40 -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.lovol 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 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 690 days 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-1000 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 Sat 21/11/20 162 415 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 97 0 days Relocation of Oil Interceptor Near Existing Compressor House 70 0 days 125 days 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 Pinework of proposed SAS Pumping Station - 13 pos. of puddles 221 0 days 180 days Mon 7/12/20 Mon 19/7/21 427SS+30 day -18 days Additional Sewage Rising main for SAS 220 0 days 215 days Tue 8/12/20 Mon 30/8/21 427SS±30 day -19 days 422 CSA-2000 Predrilling (4nrs, 1rig, 4days/drillhole/rig) 16 days Wed 20/5/20 Sat 6/6/20 Sat 18/4/20 Sat 25/4/20 Sat 18/4/20 Sat 25/4/20 139 337 423 7 days 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 26 days Thu 1/4/21 Wed 5/5/21 NA 423 -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 NA 145 424 418 Sat 19/9/20 -210 day NA 425,147,424,140 Mon 21/9/20 Wed 9/6/21 186 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 0 days Mon 9/8/21 0 days Tue 26/4/22 -210 days ABWF works + BS works 429 CSA-9000 SW 90 days Tue 10/8/21 90 days Wed 27/4/22 NA 427.195.153.465SS Thu 25/11/21 Sat 13/8/22 799 days

Contract No. DC/2018/07

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Civil Works for Sewage Treatment Facilities

	ant - Main Works Stage 1 Facilities																
Activity ID Key Tasi		NCE/ECE/ Baseline Baseline Start	Baseline Finish	Duration	Start	Finish Actual S	Start Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance % Complete Individual Critical Path	2019 2020		2021	2022	2023	2024
Date CS-1400 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	Duration	Mon 10/5/21	0 days	Tue 28/12/21	Tue 28/12/21		IA 438	51FF	24 days	0%		July Janu	ary July	January July	January July	January July
		· .										i	i i			i	i
S-1500 SW1	ABWF works + BS works	90 days Tue 11/5/21	Thu 26/8/21	90 days		Sat 19/3/22		IA 195,153,436,465SS	56FF	917 days	0%	<u> </u>	1 1			1	1
S-2000 *	Chemical System No.2	189 days Thu 4/3/21	Thu 21/10/21	284 days	Thu 8/4/21	Sat 19/3/22	NA I	IA 431		48 days	0%						
2100	Excavation for Raft Footing (100cu.m)	15 days Thu 4/3/21	Sat 20/3/21	30 days	Thu 8/4/21	Thu 13/5/21	NA N	IA 140,433	443,449	48 days	0%	1 :	1 1				
2200	Plate load test	14 days Mon 22/3/21	Fri 9/4/21	14 days	Fri 14/5/21	Mon 31/5/21	1 AN	IA 442	444	153 days	0%	i	i i			i	i
2300 KD1J									445 5455 440 447			1	1 1	_		I	
	R.C. structure works	45 days Tue 11/5/21	Mon 5/7/21	45 days	Tue 1/6/21	Sat 24/7/21		IA 443	445,51FF,446,447	153 days	2 0%	!	1 1			1	
2400 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days Mon 5/7/21	Mon 5/7/21	0 days	Sat 24/7/21	Sat 24/7/21	1 AN	IA 444	51FF	153 days	0%			◆ 24/7			
-2500 SW1	ABWF works + BS works	90 days Tue 6/7/21	Thu 21/10/21	90 days	Mon 29/11/21	Sat 19/3/22	1 AN	IA 195,153,444,465SS	56FF	917 days	0%	1 i	ii				
S-2600 SW1	Demolition of existing chemical room	60 days Tue 6/7/21	Mon 13/9/21	60 days	Mon 26/7/21	Tue 5/10/21	NA AN	IA 444	56FF	1052 days	0%	i	i i		i	i	i
S-1000 *	Fire Services Sprinkler Pumping Room	220 days Sat 10/4/21	Sun 3/1/21	254 days	Fri 14/5/21	Sat 19/3/22		IA 431		48 days	0%	1	1 1			I	
													!!!				
S-2000	Excavation for Raft Footing (800cu.m)	45 days Sat 10/4/21	Thu 3/6/21	60 days	Fri 14/5/21	Mon 26/7/21	NA N	IA 140,442	450,455,467	48 days	0%		1 1			1	
FS-3000	Plate load test	14 days Fri 4/6/21	Mon 21/6/21	14 days	Tue 27/7/21	Wed 11/8/21	1 AN	IA 449	451	78 days	0%	1 i	ii			İ	
FS-4000 KD1J	R.C. structure works	60 days Tue 6/7/21	Mon 13/9/21	60 days	Thu 12/8/21	Sat 23/10/21	NA N	IA 450	453,452,51FF	78 days	2 0%	1	1 1		1	I	1
CFS-5000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days Mon 13/9/21	Mon 13/9/21	0 days	Sat 23/10/21	Sat 23/10/21	NA 1	IA 451	51FF	78 days	0%		1 1	<b>♦</b> 23	2/10	I	
													1 1				
CFS-6000 SW1	ABWF works + BS works	90 days Tue 14/9/21	Mon 3/1/22	90 days	Mon 29/11/21	Sat 19/3/22	1 AN	IA 195,153,451,465SS	56FF	917 days	0%		1 1				
CTC-0000 *	Temporary Chemical Dosing System	191 days Tue 22/6/21	Thu 10/2/22	194 days	Tue 27/7/21	Sat 19/3/22	NA I	IA 431		48 days	0%	i i	i i			i	i
TC-1000	Excavation for Raft Footing (300cu.m)	30 days Tue 22/6/21	Tue 27/7/21	30 days	Tue 27/7/21	Mon 30/8/21	NA 1	IA 140,449	456,461	48 days	0%	I I	1 1			I	
CTC-2000	Plate load test	14 days Wed 28/7/21	Thu 12/8/21	14 days	Tue 31/8/21	Wed 15/9/21	NA 1	IA 455	457	63 days	0%	- !	1 1		1	1	1
												<u> </u>	1 1				
CTC-3000 KD1J	R.C. structure works	30 days Tue 14/9/21	Thu 21/10/21	45 days	Thu 16/9/21	Wed 10/11/21		IA 456	458,51FF,459	63 days	1 0%		1 1				
CTC-4000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days Thu 21/10/21	Thu 21/10/21	0 days	Wed 10/11/21	Wed 10/11/21	1 AN	IA 457	51FF	63 days	0%	i	i i	<b>♦</b> 1	10/11	i	i
TC-5000 SW1	ABWF works + BS works	90 days Fri 22/10/21	Thu 10/2/22	90 days	Mon 29/11/21	Sat 19/3/22	NA N	IA 195,153,457,465SS	56FF	917 days	0%	1	1 1		1	I	T
FB-0000 *	Fire Hydrant and Booster Pump Room	177 days Fri 13/8/21	Thu 17/3/22	164 days	Tue 31/8/21	Sat 19/3/22		IA 431		48 days	0%	1 !	1 1	_		1	1
									460				1 1		1	1	1
FB-1000	Excavation for Raft Footing (200cu.m)	30 days Fri 13/8/21	Thu 16/9/21	30 days	Tue 31/8/21	Wed 6/10/21		IA 140,455	462	48 days	0%	1	1 1		i	ì	i
CFB-2000	Plate load test	14 days Fri 17/9/21	Tue 5/10/21	14 days	Thu 7/10/21	Sat 23/10/21	NA N	IA 461	463	48 days	0%	(	ı i		T	I	T
FB-3000 KD1J	R.C. structure works	30 days Fri 22/10/21	Thu 25/11/21	30 days	Mon 25/10/21	Sat 27/11/21	NA N	IA 462	464,465,51FF	48 days	1 0%	1 !	1 1		!	1	1
FB-4000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days Thu 25/11/21	Thu 25/11/21	0 days	Sat 27/11/21	Sat 27/11/21	NA N	IA 463	51FF	48 days	0%	+ !	1 1	_	27/11	1	1
		· .										1	1 1			1	1
FB-5000 SW1	ABWF works + BS works	90 days Fri 26/11/21	Thu 17/3/22	90 days		Sat 19/3/22		IA 463,195,153	56FF,471SS,459SS,453S		0%	l i	1 1			i	i
EG-0000 *	Emergency Generator House	163 days Wed 6/10/21	Tue 26/4/22	194 days	Tue 27/7/21	Sat 19/3/22	NA I	IA 431		88 days	0%	I I	1 1			I	1
EG-1000	Excavation for Raft Footing (100cu.m)	20 days Wed 6/10/21	Fri 29/10/21	20 days	Tue 27/7/21	Wed 18/8/21	NA N	IA 140,449	468	88 days	0%	1 !	1 1		1	1	1
EG-2000	Plate load test	14 days Sat 30/10/21	Mon 15/11/21	14 days	Thu 19/8/21	Fri 3/9/21	NA N	IA 467	469	88 days	0%	1 :	1 1	100			
EG-3000 KD1J	R.C. structure works	30 days Fri 26/11/21	Mon 3/1/22	30 days	Sat 4/9/21	Mon 11/10/21		IA 468	470,51FF,471	88 days	1 0%	-	1 1				
												i	i i		i	i	i
EG-4000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days Mon 3/1/22	Mon 3/1/22	0 days	Mon 11/10/21	Mon 11/10/21	1 AN	IA 469	51FF	88 days	0%	1	1 1	♦ 11/	10	I	
EG-5000 SW1	ABWF works + BS works	90 days Tue 4/1/22	Tue 26/4/22	90 days	Mon 29/11/21	Sat 19/3/22	AA N	IA 195,153,469,465SS	56FF	917 days	0%	1 !	1 1			1	
DS-0000 *	Deodorization System No.1 and No.3A	149 days Tue 16/11/21	Sat 21/5/22	114 days	Mon 4/1/21	Tue 25/5/21	NA I	IA		203 days	0%			_			
OS-1000	Demolition of Existing Leachate Pump Pit	0 days NA	NA	50 days	Mon 4/1/21	Fri 5/3/21	NA 1	10	474	203 days	0%	-		•			
								IA .				i			i	i	i
0S-2000	Excavation for Raft Footing (400cu.m)	20 days Tue 16/11/21	Wed 8/12/21	20 days	Sat 6/3/21	Mon 29/3/21		IA 140,473,486	475	203 days	0%	1	, i			I	
DS-3000	Plate load test	14 days Thu 9/12/21	Fri 24/12/21	14 days	Tue 30/3/21	Sat 17/4/21	AA AA	IA 474	476	203 days	00/		1 1			1	
DO 1000 ::=	Footing works										0%					1	1
CDS-4000 KD1J	Footing works	20 days Tue 4/1/22	Wed 26/1/22	30 days	Mon 19/4/21	Tue 25/5/21	NA N	IA 475	477,51FF	203 days		- !	1 1			I.	
	•									203 days	0%	- I I - I	1 1	<b>▲</b> 25/5		1	
CDS-5000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days Wed 26/1/22	Wed 26/1/22	0 days	Tue 25/5/21	Tue 25/5/21	NA N	IA 476	477,51FF 51FF	203 days 203 days	0% 0%	 		◆ 25/5	 	I I I	
CDS-5000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)	0 days Wed 26/1/22 662 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 NA Mon 1/6/20	IA 476	51FF	203 days 203 days 536 days	0% 0% 39%		1 1		1	 	
CDS-5000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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,	0 days Wed 26/1/22	Wed 26/1/22	0 days	Tue 25/5/21	Tue 25/5/21	NA NA Mon 1/6/20	IA 476		203 days 203 days	0% 0%	=				1 1 1	
CDS-5000 KD1J  CAA-0000 *  CAA-1000 KD2B	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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.)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20	0 days	Tue 25/5/21 Mon 1/6/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21	NA NA NO 1/6/20 NO 1/6/20 NO 1/6/20 NO 1/6/20	IA 476 IA IA 15,154,190	51FF 53FF	203 days 203 days 536 days	0% 0% 39% 53%	=				1 1 1 1	
CDS-5000 KD1J  CAA-0000 *  CAA-1000 KD2B	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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.)	0 days Wed 26/1/22 662 days Wed 29/1/20	Wed 26/1/22 Fri 22/4/22	0 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	NA NA Mon 1/6/20	IA 476 IA IA 15,154,190	51FF	203 days 203 days 536 days	0% 0% 39%					1 1 1 1 1 1	
CDS-5000 KD1J  CAA-0000 *  CAA-1000 KD2B  CAA-1100	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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.)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20	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 NA NO 1/6/20 NO 1/6/20 NO 1/6/20 NO 1/6/20	IA 476 IA IA 15,154,190	51FF 53FF	203 days 203 days 536 days 0 days	0% 0% 39% 53%	=				1 1 1 1 1 1	
CDS-5000 KD1J  CAA-0000 *  CAA-1000 KD2B  CAA-1100  CAA-1200	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA	0 days 918 days 320 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	NA P P P P P P P P P P P P P P P P P P P	IA 476 IA IA 15,154,190 20	51FF 53FF 483,484,485	203 days 203 days 536 days 0 days	0% 0% 39% 53% 100%					1 1 1 1 1 1	
CAA-1000 KD2B  CAA-1100 KD2B  CAA-1100 CAA-1200  CAA-1300	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 0 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	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	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20	NA P Mon 1/6/20 P Mon 1/6/20 P Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/	IA 476 IA IA 15,154,190 20 20 20	53FF  483,484,485  483,484,485  483,484,485	203 days 203 days 536 days 0 days 0 days 0 days 0 days 0 days	0% 0% 39% 53% 100% 100% 100%			◆ 25/5		 	
CDS-5000 KD1J CAA-0000 * CAA-1100 KD2B CAA-1200 CAA-1300	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 0 days 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 Mon 1/6/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20	NA P Mon 1/6/20 P Mon 1/6/20 P Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/	IA 476 IA IA 15,154,190 20	53FF 483,484,485 483,484,485	203 days 203 days 536 days 0 days 0 days 0 days	0% 0% 39% 53% 100% 100%			◆ 25/5			
CDS-5000 KD1J  CAA-1000 CDS-5000 KD2B  CAA-1100 CDS-1000	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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.)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days Wed 29/1/20	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA NA Thu 3/9/20	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  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  W	NA 16/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/	IA 476 IA IA 15,154,190 20 20 20 IA 480,481,482	53FF  483,484,485  483,484,485  483,484,485	203 days 203 days 536 days 0 days 0 days 0 days -135 days	0% 0% 39% 53% 100% 100% 100% 9%			♦ 25/5		 	
CDS-5000 KD1J  CAA-1000 CAA-1000 KD2B  CAA-1100 CAA-1200 CAA-1300 CAA-1400	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 DL.)  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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 0 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	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  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  W	NA 16/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/	IA 476 IA IA 15,154,190 20 20 20	53FF  483,484,485  483,484,485  483,484,485	203 days 203 days 536 days 0 days 0 days 0 days 0 days 0 days	0% 0% 39% 53% 100% 100% 100%			♦ 25/5		 	
CAA-1500  CAA-1500  CAA-1500  CAA-1500  CAA-1500  CAA-1500	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days Wed 29/1/20 064 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA NA NA NA NA NA NA NA 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 Wol 11/11/20 Wed 11/11/20	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  W  Mon 28/6/21  W	NA 16/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ ed 11/11/20 1 1	IA 476 IA IA 15,154,190 20 20 20 IA 480,481,482 IA 480,481,482	53FF  483,484,485  483,484,485  483,484,485	203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days	0% 0% 39% 53% 100% 100% 100% 9% 9% 9%			♦ 25/5			
CDS-5000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days Wed 29/1/20 064 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA NA Thu 3/9/20	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 Wol 11/11/20 Wed 11/11/20	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  W	NA 16/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ ed 11/11/20 1 1	IA 476 IA IA 15,154,190 20 20 20 IA 480,481,482	53FF  483,484,485  483,484,485  483,484,485	203 days 203 days 536 days 0 days 0 days 0 days -135 days	0% 0% 39% 53% 100% 100% 100% 9%			♦ 25/5			
CDS-5000 KD1J  CAA-1000 KD2B  CAA-1100 KD2B  CAA-1200  CAA-1300  CAA-1300  CAA-1400  CAA-1500  CAA-1600	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 064 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA Thu 3/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 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 Mon 1/6/20 Wed 11/11/20 Wed 11/11/20	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  W  Fri 22/1/21	NA NA NA NA NA NA NA NA NA NA NA NA NA N	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 480,481,482	53FF 483,484,485 483,484,485 483,484,485 53FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -135 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0			♦ 25/5			
EDS-5000 KD1J  EAA-0000 *  EAA-1000 KD2B  EAA-1100  EAA-1200  EAA-1300  EAA-1400  EAA-1500  EAA-1600  EAA-1600  EAA-1600  EAA-1600  EDS-5000 KD1I	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 10 days NA 0 days NA 130 days NA 140 days NA 150 days NA 150 days NA 17 062 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA NA NA Thu 3/9/20  NA Sat 30/1/21	0 days 918 days 320 days 135 days 135 days 135 days 185 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 Wod 11/11/20 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  W  Mon 28/6/21  W  Fri 22/1/21  Sat 30/1/21	NA 16/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ ed 11/11/20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IA 476  IA 15,154,190  20  20  20  1A 480,481,482  IA 480,481,482  IA 480,481,482  IA 480,481,482	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -135 days -10 days	0% 0% 39% 53% 100% 100% 100% 9% 9% 9% 5% 5%			♦ 25/5			
CDS-5000 KD1J  CAA-0000 CDS-6000 KD2B  CAA-1100 KD2B  CAA-1200 CAA-1200  CAA-1300 CAA-1400  CAA-1500 CAA-1600  CAA-1600 KD1I	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 064 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA NA NA Thu 3/9/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 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 Wod 11/11/20 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  W  Fri 22/1/21	NA 16/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ ed 11/11/20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 480,481,482	53FF 483,484,485 483,484,485 483,484,485 53FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -135 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0			♦ 25/5			
CAA-1600 CAA-2000 CAA-2000 CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-3000 CAA	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 10 days NA 0 days NA 130 days NA 140 days NA 150 days NA 150 days NA 17 062 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA NA NA Thu 3/9/20  NA Sat 30/1/21	0 days 918 days 320 days 135 days 135 days 135 days 185 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 Wod 11/11/20 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  W  Mon 28/6/21  W  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23	NA	IA 476  IA 15,154,190  20  20  20  1A 480,481,482  IA 480,481,482  IA 480,481,482  IA 480,481,482	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -135 days -10 days	0% 0% 39% 53% 100% 100% 100% 9% 9% 9% 5% 5%			♦ 25/5			
CAA-1600 CAA-2000 CAA-2000 CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-3000 CAA	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 0 days NA 180 days NA 180 days NA 180 days Fri 4/9/20 360 days NA 122 days Fri 4/9/20 360 days Mon 1/2/21	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 320 days 135 days 135 days 135 days 185 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 19/4/22 Mon 27/4/20	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  W  Mon 28/6/21  W  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23	NA 16:20	IA 476  IA 15,154,190  20  20  20  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 481,481  IA 480,481,482  IA 480,481,482	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -10 days 0 days 441 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0			♦ 25/5			
DS-5000 KD1J  AA-0000 AA-1000 KD2B  AA-1100 AA-1200  AA-1300 AA-1400  AA-1500 AA-1600  AA-1600 KD1I  AA-2000 KD1I  AA-3000 SW3  UU-0000 LUU-1000 KD2A	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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.I.)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 365 days NA 360 days NA 360 days NA 360 days Mon 1/2/21 1091 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 60 days 122 days 360 days 1041 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  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  Whon 28/6/21  Wind 28/6/21  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21	NA 16/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ ed 11/11/20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 18FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 0 days 441 days 8 d-103.8 days	0% 0% 39% 39% 53% 100% 100% 100% 9% 9% 9% 9% 0% 11% 27%	₩.8		♦ 25/5			
CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-1600 CAA-2000 CAA	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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.L)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MEV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.L)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Stalricases  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.L.)  Special Treatment for Removing the Existing Abandood DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall for trenching work of	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 365 days NA 360 days NA 360 days NA 360 days Mon 1/2/21 1091 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 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 Mon 27/4/20	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  Whon 28/6/21  Wind 28/6/21  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21	NA 16:20	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 18FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -10 days 0 days 441 days	0% 0% 39% 39% 53% 100% 100% 100% 9% 9% 9% 9% 0% 0%			♦ 25/5			
CAA-1000 KD1J CAA-1000 KD2B  CAA-1100 KD2B  CAA-1100 CAA-1200  CAA-1300 CAA-1400  CAA-1500 CAA-1600  CAA-1600 KD1I CAA-2000 KD1I CAA-3000 SW3  CUU-0000 CAA-1000 KD2A	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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.I.)  Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 180 days NA 365 days NA 360 days NA 360 days NA 360 days Mon 1/2/21 1091 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 60 days 122 days 360 days 1041 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  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  Whon 28/6/21  Wind 28/6/21  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21	NA 16/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ ed 11/11/20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 18FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 0 days 441 days 8 d-103.8 days	0% 0% 39% 39% 53% 100% 100% 100% 9% 9% 9% 9% 0% 11% 27%	₩.8		♦ 25/5			
DS-5000 KD1J  AA-0000  AA-1000 KD2B  AA-1100 AA-1200  AA-1300  AA-1400  AA-1500  AA-1600  AA-1600  AA-2000 KD11  AA-3000 SW3  UU-0000  UU-1000a	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 inspection pit to verify the connection point to existing (CE xxx) Additional MBV installation (CE xxx) Additional MBV installation (CE xxx) Additional MBV installation (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 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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 180 days NA 1122 days NA 122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 325 days 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 NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 60 days 122 days 360 days 1041 days 272 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  Tue 10/11/20  Mon 28/6/21  Won 28/6/21  Wind 1/20  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Mon 3/8/20	NA 16/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ 20 1 Tue 10/11/ 20 1 Tue 10/11/ 20 1 NA 1 NA 1 NA 1 NA 1 NA 1 NA 1 NA 1 N	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 18FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -135 days -140 days -140 days -1536 days	0% 0% 39% 53% 53% 100% 100% 100% 9% 9% 0% 59% 0% 11% 27% 100%	₩.8		◆ 25/5			
DS-5000 KD1J  AA-0000  AA-1000 KD2B  AA-1100 AA-1200  AA-1300  AA-1400  AA-1500  AA-1600  AA-1600  AA-2000 KD11  AA-3000 SW3  UU-0000  UU-1000a	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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.L)  Change of pipe bridge design  Additional inspection pit to verify the connection point to existing (CE xxx)  Additional MEV installation (CE xxx)  Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.L)  Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Stalricases  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.L.)  Special Treatment for Removing the Existing Abandood DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall for trenching work of	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  057 0 days NA  0 days NA  180 days NA  180 days NA  180 days NA  180 days NA  180 days NA  180 days NA  180 days NA  180 days NA  017 062 0 days NA  122 days Fri 4/9/20  360 days Mon 1/2/21  1091 days Mon 24/2/20  325 days Mon 24/2/20  029 0 days 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 60 days 122 days 360 days 1041 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  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  Whon 28/6/21  Wind 28/6/21  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21	NA 16/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ 20 1 Tue 10/11/ 20 1 Tue 10/11/ 20 1 NA 1 NA 1 NA 1 NA 1 NA 1 NA 1 NA 1 N	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 18FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 0 days 441 days 8 d-103.8 days	0% 0% 39% 39% 53% 100% 100% 100% 9% 9% 9% 9% 0% 11% 27%	₩.8		♦ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 AA-1200 AA-1200 AA-1300 AA-1500 AA-1600 AA-1600 AA-1600 KD1I AA-3000 SW3 UU-0000 * UU-1000a UU-1000a	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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.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 040)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 1120 days NA 017 062 0 days NA 122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 325 days Mon 24/2/20 029 0 days 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 NA NA	0 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	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  Mon 24/5/21	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  Whon 28/6/21  Whon 28/6/21  Whon 28/6/21  Whon 28/6/21  Whon 28/6/21  Whon 28/6/21  Whon 28/6/21  Whon 28/6/21  Whon 28/6/21  Whon 28/6/21  Whon 28/6/21  Whon 3/8/20  Wed 4/8/21  Wed 4/8/21	NA	IA 476  IA 1A 15,154,190  20  20  20  20  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 14FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -135 days -135 days -135 days -135 days -135 days -135 days -10 days 0 days -135 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 AA-1200 AA-1200 AA-1300 AA-1500 AA-1600 AA-1600 AA-1600 KD1I AA-3000 SW3 UU-0000 * UU-1000a UU-1000a	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 Distibution 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.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)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 180 days NA 1122 days NA 122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 325 days 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 NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 60 days 122 days 360 days 1041 days 272 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  Tue 10/11/20  Mon 28/6/21  Won 28/6/21  Wind 1/20  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Mon 3/8/20	NA 16/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Mon 1/6/20 1 Tue 10/11/ Mon 1/6/20 Tue 10/11/ Mon 1/6/20 Tue 10/11/ 20 1 Tue 10/11/ 20 1 Tue 10/11/ 20 1 NA 1 NA 1 NA 1 NA 1 NA 1 NA 1 NA 1 N	IA 476  IA 1A 15,154,190  20  20  20  20  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 14FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -135 days -140 days -140 days -1536 days	0% 0% 39% 53% 53% 100% 100% 100% 9% 9% 0% 59% 0% 11% 27% 100%	₩.8		◆ 25/5			
EDS-5000 KD1J  AA-0000   AA-1000 KD2B  AA-1100 KD2B  AA-1100 AA-1200  AA-1200  AA-1200  AA-1300  AA-1400  AA-1500  AA-1500  AA-1500  AA-2000 KD1I  AA-3000 SW3  AUU-1000 KD2A  AUU-1000 KD2A	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 bin DN900 D.I.)  Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheeppile 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 040)  Bermoval of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 017 062 0 days NA 122 days Fri 4/9/20 365 days Mon 1/2/21 1091 days Mon 24/2/20 325 days NA 0 days 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 NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 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  Tue 10/11/20  Mon 28/6/21  Won 28/6/21  Win 1/20  Mon 28/6/21  Win 1/20  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Wed 4/8/21  Thu 20/8/20	NA	IA 476  IA  IA 15,154,190  20  20  20  20  20  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 14FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154  20  IA 492,489FF	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days 10 days 135 days -135 days -10 days 0 days 41 days 0 days 411 days 135 days 411 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days	0% 0% 39% 53% 100% 100% 100% 100% 100% 100% 100% 10	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 AA-1200 AA-1300 AA-1400 AA-1500 AA-1600 AA-1600 AA-1600 AA-1600 AA-1000 KD21 AA-1000 KD2A UU-1000a UU-1000b	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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.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 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 1120 days NA 017 062 0 days NA 122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 325 days Mon 24/2/20 029 0 days 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 NA NA	0 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	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  Tue 10/11/20  Mon 28/6/21  Won 28/6/21  Win 1/20  Mon 28/6/21  Win 1/20  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Wed 4/8/21  Thu 20/8/20	NA	IA 476  IA  IA 15,154,190  20  20  20  20  20  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 14FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154  20  IA 492,489FF	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days -135 days -135 days -135 days -135 days -135 days -135 days -135 days -135 days -10 days 0 days -135 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B  AA-1100 KD2B  AA-1200 AA-1200 AA-1400  AA-1500 AA-1500 AA-1600  AA-1600  AA-1600  AA-1600  AUU-1000 KD1I AA-3000 SW3  UU-0000 * UU-1000 KD2A  UU-1000b  UU-1001  UU-1001	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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.I.)  Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheepiple wall for trenching work of Process Pipeine 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  Grouting for Sheung Shul Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 064)	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  057 0 days NA 0 days NA 180 days NA 180 days NA  1180 days NA  1180 days NA  017 062 0 days NA  1122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 325 days Mon 24/2/20 029 0 days NA  0 days NA  0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA 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 NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 60 days 122 days 360 days 1041 days 272 days 60 days 43 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 19/4/20  Mon 27/4/20  Sat 30/5/20  Thu 27/20  Fri 23/10/20  Fri 23/10/20	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  W  Mon 28/6/21  W  Mon 28/6/21  W  Mon 28/6/21  W  Wed 4/8/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20	NA	IA 476  IA IA 15,154,190  20  20  20  20  21  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 14FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154  20  IA 492,489FF	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -10 days -135 days -10 days 0 days 536 days 411 days 0 days 1103.2 days 0 days	0%	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 • AA-1000 KD2B AA-1100 KD2B AA-11100 AA-1200 AA-1300 AA-1400 AA-1500 AA-1600 AA-1600 KD1I AA-3000 KD1I AA-3000 SW3 UU-0000 • UU-1000 UU-10000 UU-1001	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 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.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 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 Shui Staughter House Boundary Walls along CHR & CHS Pipes	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  057 0 days NA 0 days NA 180 days NA 180 days NA  1180 days NA  1180 days NA  017 062 0 days NA  1122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 325 days Mon 24/2/20 029 0 days NA  0 days NA  0 days 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 NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 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  Tue 10/11/20  Mon 28/6/21  Won 28/6/21  Win 1/20  Mon 28/6/21  Win 1/20  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Wed 4/8/21  Thu 20/8/20	NA	IA 476  IA IA 15,154,190  20  20  20  20  21  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 14FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154  20  IA 492,489FF	51FF 53FF 483,484,485 483,484,485 483,484,485 53FF 50FF,474 58FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days 10 days 135 days -135 days -10 days 0 days 41 days 0 days 411 days 135 days 411 days 10 days 10 days 10 days 10 days 10 days 10 days 10 days	0% 0% 39% 53% 100% 100% 100% 100% 100% 100% 100% 10	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 AA-1200 AA-1300 AA-1400 AA-1500 AA-1600 AA-1600 AA-1600 AA-1600 AA-1600 AA-1600 AA-1600 AA-1000 AA	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 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 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 Pipien CHR and CHS  Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPMI 040)  Removal of Abandoned DN1900 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR 8 CHS Process Pipe Works Area  Grouting for Sheung Shui Staughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 064)	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 1122 days NA 122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 029 0 days NA 0 days NA 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA NA NA NA Thu 3/9/20  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	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 days 272 days 54 days 60 days 43 days 20 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 27/20  Thu 31/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  W  Mon 28/6/21  W  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Mon 16/11/20  Thu 4/2/21	NA	IA 476  IA 1A 15,154,190  20  20  20  20  20  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 13FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154  IA 492,489FF  20  IA 482,489FF	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4	203 days 203 days 203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -135 days -141 days 8 d -103.8 days 0 days 1103.2 days 0 days 0 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 AA-1200 AA-1300 AA-1300 AA-1500 AA-1500 AA-1500 AA-1500 AA-1500 KD1I AA-3000 SW3 JUI-0000 * JUI-1000 KD2A JUI-1000a JUI-1000b JUI-1001 JUI-1002 JUI-1003 JUI-1003 JUI-1004	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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.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 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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 017 062 0 days NA 122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 029 0 days NA 0 days NA 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA 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 NA NA NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 days 272 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  Mon 24/5/21  Thu 2/7/20  Thu 31/12/20  Thu 31/12/20  Tue 12/12/20	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  Won 28/6/21  Win 28/6/21  Win 28/6/21  Win 28/6/21  Win 28/6/21  Win 28/6/21  Tue 10/11/20  Wed 4/8/21  Tue 20/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21	NA	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 480,481,482 IA 14FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154 20 IA 482,489FF 20 IA	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4  491	203 days 203 days 203 days 536 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 -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -11 days -11 days -12 days -12 days 0 days -12 days 0 days -12 days 0 days -12 days -12 days -13 days -14 days -15 days -16 days -17 days	0%	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 KD2B AA-1100 AA-1200 AA-1300 AA-1300 AA-15	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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.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 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	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 1122 days NA 122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 029 0 days NA 0 days NA 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA NA NA NA Thu 3/9/20  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	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 days 272 days 54 days 60 days 43 days 20 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 27/20  Thu 31/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  W  Mon 28/6/21  W  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Mon 16/11/20  Thu 4/2/21	NA	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 480,481,482 IA 14FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154 20 IA 482,489FF 20 IA	51FF  53FF  483,484,485  483,484,485  483,484,485  53FF  50FF,474  58FF  501SS+48 days,499SS+4	203 days 203 days 203 days 536 days 0 days 0 days 0 days 0 days -135 days -135 days -135 days -141 days 8 d -103.8 days 0 days 1103.2 days 0 days 0 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 AA-1200 AA-1300 AA-1300 AA-1500 AA-1500 KD1I AA-3000 KD1I AA-3000 KD1I AA-3000 KD1I AA-3000 KD1I AA-3000 KD1I AA-3000 WB2A JUL-1000 KD2A JUL-1000b JUL-1000b JUL-1001 JUL-1002 JUL-1003 JUL-1003 JUL-1003 JUL-1003 JUL-1004 JUL-1005	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 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 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 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area (PPMI 084)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH oblay Delay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHDO1 and CHDO2  Process Pipes, including CHT, CHX, CHY, CHPS182, CHS S182, CHDO 182,	0 days Wed 26/1/22 662 days Wed 29/1/20 180 days Wed 29/1/20 180 days Wed 29/1/20 057 0 days NA 0 days NA 180 days NA 180 days NA 180 days NA 017 062 0 days NA 122 days Fri 4/9/20 360 days Mon 1/2/21 1091 days Mon 24/2/20 029 0 days NA 0 days NA 0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA 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 NA NA NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 days 272 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 3/1/2/20  Thu 3/1/2/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 3/1/2/20  Thu 3/1/2/20  Thu 3/1/2/20  True 22/1/2/20  Fri 4/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  W  Mon 28/6/21  W  Mon 28/6/21  W  Mon 28/6/21  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Mon 3/8/20  Mon 16/11/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 11/3/21	NA	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 480,481,482 IA 14FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154 20 IA 482,489FF 20 IA	51FF  53FF  483,484,485  483,484,485  483,484,485  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF	203 days 203 days 203 days 536 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 -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -10 days -11 days -11 days -12 days -12 days 0 days -12 days 0 days -12 days 0 days -12 days -12 days -13 days -14 days -15 days -16 days -17 days	0%	S. 8		◆ 25/5			
NS-5000 KD1J NA-1000 ND2B NA-1100 KD2B NA-1100 KD2B NA-1100 ND2B NA-1100 ND2B NA-1500 ND2B NA-1500 ND2B NA-1500 ND2B ND2B ND2B ND2B ND2B ND2B ND2B ND2B	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)  Additional MBV installation (CE xxx)  Additional MBV installation (CE xxx)  Additional MBV installation (CE xxx)  Additional MBV installation (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 D.I.)  Special Treatment for Renoving the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Contilic 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 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Chamel at CHR & CHS Process Pipe Works Area (PPMI 084)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Unity Country Country Country CHY, CHPS 182 CHS 5182, CHD 0182, CHTS 182, CHT	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days NA  0 days NA  180 days NA  180 days NA  180 days NA  1180 days NA  122 days NA  122 days Fri 4/9/20  360 days Mon 1/2/21  1091 days Mon 24/2/20  325 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA 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 NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 days 272 days 60 days 43 days 43 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  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 3/1/2/20  Thu 3/1/2/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 3/1/2/20  Thu 3/1/2/20  Thu 3/1/2/20  True 22/1/2/20  Fri 4/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  W  Mon 28/6/21  W  Mon 28/6/21  W  Mon 28/6/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 11/3/21	NA	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 480,481,482 IA 14FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154 20 IA 482,489FF 20 IA IA 482,489FF 20 IA IA IA IA IA IA IA IA IA IA IA IA IA I	51FF  53FF  483,484,485  483,484,485  483,484,485  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days 0 days 10 days -135 days -135 days -10 days 41 days 84 d-103.8 days 0 days 0 days 1103.2 days 0 days 1248 days 363 days 340 days	0%	S. 8		◆ 25/5			
NA-1600 KD11 NA-1000 KD2B NA-1100 KD2B NA-1100 KD2B NA-1100 KD2B NA-1400 KD2B NA-1400 KD11 NA-1500 KD11 NA-1600 KD11 NA-1600 KD11 NA-1600 KD11 NA-1600 KD2A NA-1600 SW3 NU-0000 TD11 NA-1600 SW3 NU-0000 TD11 NA-1600 MD2A NA-1600 SW3 NU-0000 TD11 NA-16000 SW3 NU-0000 TD11 NA-16000 TD1	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 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 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 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area (PPMI 084)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH oblay Delay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHDO1 and CHDO2  Process Pipes, including CHT, CHX, CHY, CHPS182, CHS S182, CHDO 182,	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days NA  0 days NA  180 days NA  180 days NA  180 days NA  1180 days NA  122 days NA  122 days Fri 4/9/20  360 days Mon 1/2/21  1091 days Mon 24/2/20  325 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA 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 NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 days 272 days 60 days 43 days 43 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  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 3/1/2/20  Thu 3/1/2/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 3/1/2/20  Thu 3/1/2/20  Thu 3/1/2/20  True 22/1/2/20  Fri 4/12/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  W  Mon 28/6/21  W  Mon 28/6/21  W  Mon 28/6/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 11/3/21	NA	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 480,481,482 IA 14FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154 20 IA 482,489FF 20 IA IA 482,489FF 20 IA IA IA IA IA IA IA IA IA IA IA IA IA I	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	203 days 203 days 203 days 536 days 0 days 0 days 0 days 0 days 10 days -135 days -135 days -10 days 41 days 84 d-103.8 days 0 days 0 days 1103.2 days 0 days 1248 days 363 days 340 days	0%	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 KD2B AA-1100 AA-1200 AA-1300 AA-1400 AA-1500 KD1I AA-3000 KD1I AA-3000 KD1I AA-3000 KD1I AA-3000 KD1I AA-3000 KD1I AA-3000 W3 JU-0000 * JU-1000 KD2A JU-1000 JU-10	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)  Additional MBV installation (CE xxx)  Additional MBV installation (CE xxx)  Additional MBV installation (CE xxx)  Additional MBV installation (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 D.I.)  Special Treatment for Renoving the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Contilic 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 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Chamel at CHR & CHS Process Pipe Works Area (PPMI 084)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH Unity Country Country Country CHY, CHPS 182 CHS 5182, CHD 0182, CHTS 182, CHT	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days NA  0 days NA  180 days NA  180 days NA  180 days NA  1180 days NA  122 days NA  122 days Fri 4/9/20  360 days Mon 1/2/21  1091 days Mon 24/2/20  325 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA 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 NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 60 days 122 days 360 days 1041 days 272 days 60 days 43 days 43 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  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 27/7/20  Fri 23/10/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 31/12/20  Thu 31/12/20  Thu 31/12/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20  Thu 71/20	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  W  Mon 28/6/21  W  Mon 28/6/21  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 11/3/21  Fri 6/5/22  M	NA	IA 476 IA IA 15,154,190 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 480,481,482 IA 14FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154 20 IA 482,489FF 20 IA IA 482,489FF 20 IA IA IA IA IA IA IA IA IA IA IA IA IA I	51FF  53FF  483,484,485  483,484,485  483,484,485  50FF,474  58FF  501SS+48 days,499SS+4  491  497FF	203 days 203 days 203 days 536 days 0 days 0 days 0 days 0 days 10 days -135 days -135 days -10 days 41 days 84 d-103.8 days 0 days 0 days 1103.2 days 0 days 1248 days 363 days 340 days	0%	S. 8		◆ 25/5			
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EDS-5000 KD1J  EAA-0000 *  EAA-1000 KD2B  EAA-1100 KD2B  EAA-1100 EAA-1200  EAA-1300  EAA-1300  EAA-1400  EAA-1500	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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 brin 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 Chamnel at CHR & CHS Process Pipe Works Area  Grouting for Sheung Shui Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 054)  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, CHPSW 1-8, CHPT182, CHTT1 182, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe  Waterworks	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days Wed 29/1/20  057 0 days NA  0 days NA  180 days NA  180 days NA  1180 days NA  1180 days NA  1180 days NA  017 062 0 days NA  122 days Fri 4/9/20  360 days NA  1091 days NA  0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA 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 NA NA NA NA NA NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 185 days 122 days 360 days 1041 days 272 days 54 days 43 days 40 days 47 days 457 days 457 days 542 days 542 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 27/20  Thu 31/12/20  Tue 22/12/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20	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  Wed 1/8/21  Sat 30/1/21  Thu 6/7/23  Sat 28/1/20  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 11/3/21  Fri 6/5/22  Med 17/8/22	NA	IA 476  IA 15,154,190  20  20  20  20  20  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 14FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154  IA 190,154  IA 492,489FF  20  IA 482,489FF  20  IA 482,489FF  20  IA 488,484,484  IA 190,488,484,484  IA 190,488,484,484  IA 190,488,484,484  IA 190,488,484,484  IA 190,488,5844  IA 190,488,5844  IA 190,488,5844	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  504FS+2 days,57FF	203 days 203 days 203 days 203 days 536 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 536 days 441 days 8 d -103.8 days 0 days 1103.2 days 0 days 1248 days 1248 days 363 days 363 days 364 days 0 days 0 days 0 days	0%	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B  AA-1100 KD2B  AA-1100 AA-1200  AA-1300 AA-1300 AA-1500  AA-1500  AA-1600  AA-1600  AA-1600  AA-1600  AA-1600  AA-1600  AUU-1000  UU-1000	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 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 bin 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 049)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH or Stain (PPMI 064)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH obelay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHD01 and CHD02  Process Pipes, including CHT, CHX, CHYP, CHPS 182, CHS ST82, CHD0 182, CHPSW 1-9, CHPS, CHPTIS, CHTFT, 182, CHTFT, CHTD, Foam Collection & Surpus activated sludge resing main pipe	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  057 0 days NA 0 days NA 10 days NA 180 days NA 180 days NA 110 days NA 062 0 days NA 122 days Fri 4/9/20 365 days Mon 24/2/20 360 days NA 0 days NA 0 days NA 0 days NA 0 days NA 123 days NA 124 days NA 125 days NA 0 days N	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 NA NA Fri 6/5/22 Fri 6/5/22 Fri 6/5/22 Fri 6/5/22	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 122 days 360 days 1041 days 54 days 43 days 40 days 40 days 457 days 457 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 27/20  Thu 31/12/20  Tue 22/12/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20  Mon 19/10/20	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  Wed 1/8/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 1/3/21  Fri 6/5/22  Med 17/8/22	NA	IA 476  IA 15,154,190  20  20  20  20  20  21  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 13FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154  IA 190,489SF+48 days,154,495FF,496FF  IA 190,489SS+48 days,154,495FF,496FF  IA 190,489SS+48 days,154  IA 489SS+48 days,150,154  IA 489SS+48 days,190,154  IA 489SS+48 days,190,154  IA 489SS+48 days,190,154  IA 489SS+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  504FS+2 days,57FF  502,57FF	203 days 203 days 203 days 203 days 536 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 364 days 0 days 3740 days 0 days 1103.2 days 0 days 1248 days 1248 days 363 days 363 days 364 days 0 days 0 days	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 KD2B AA-1100 AA-1200 AA-1300 AA-1300 AA-1400 KD1J AA-1500 KD1I AA	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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 brin 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 Chamnel at CHR & CHS Process Pipe Works Area  Grouting for Sheung Shui Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 054)  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, CHPSW 1-8, CHPT182, CHTT1 182, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe  Waterworks	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days Wed 29/1/20  057 0 days NA  0 days NA  180 days NA  180 days NA  1180 days NA  1180 days NA  1180 days NA  017 062 0 days NA  122 days Fri 4/9/20  360 days NA  1091 days NA  0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA 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 NA NA NA NA NA NA NA NA NA NA NA NA	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 185 days 122 days 360 days 1041 days 272 days 54 days 43 days 40 days 47 days 457 days 457 days 542 days 542 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  Mon 24/5/21  Thu 27/20  Thu 31/12/20  Tue 22/12/20  Fri 4/12/20  Mon 19/10/20	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  Wed 1/8/21  Sat 30/1/21  Thu 6/7/23  Sat 28/1/20  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 11/3/21  Fri 6/5/22  Med 17/8/22	NA	IA 476  IA 15,154,190  20  20  20  20  20  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 14FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154  IA 190,154  IA 492,489FF  20  IA 482,489FF  20  IA 482,489FF  20  IA 488,484,484  IA 190,488,484,484  IA 190,488,484,484  IA 190,488,484,484  IA 190,488,484,484  IA 190,488,5844  IA 190,488,5844  IA 190,488,5844	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  504FS+2 days,57FF	203 days 203 days 203 days 203 days 536 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 536 days 441 days 8 d -103.8 days 0 days 1103.2 days 0 days 1248 days 1248 days 363 days 363 days 364 days 0 days 0 days 0 days	0%	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 KD2B AA-1100 AA-1200 AA-1300 AA-1300 AA-1500 AA-1500 AA-1500 KD1I AA-3000 KD1I AA-3000 KD1I AA-3000 KD1I AU-1000 KD2A UU-1000 KD2A UU-1000 KD2A UU-1000 UU	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 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 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 040)  Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area  Grouning for Shoung 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, including CHT, CHX, CHY, CHPS182 CHS S182, CHDO 182, CHPSW 1-8, CHTPS, CHPT182. CHTFT 182, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe  Drainage  Sewerage  Waterworks  Cable Ducts	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days NA  0 days NA  180 days NA  180 days NA  180 days NA  1122 days Fri 4/9/20  360 days NA  1091 days Mon 1/2/21  1091 days Mon 24/2/20  325 days NA  0 days NA  0 days NA  0 days NA  0 days NA  1091 days NA  0 days NA  0 days NA  0 550 days NA  550 days NA  550 days NA  550 days NA  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20	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 NA NA Fri 6/5/22 Fri 6/5/22 Fri 6/5/22 Fri 6/5/22	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 185 days 20 days 1041 days 272 days 54 days 43 days 40 days 40 days 457 days 457 days 542 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  Mon 24/5/21  Thu 27/20  Thu 31/12/20  Tue 22/12/20  Fri 4/12/20  Mon 19/10/20	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  Wed 1/8/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 11/3/21  Fri 6/5/22  Med 17/8/22	NA	IA 476  IA 15,154,190  20  20  20  20  20  21  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 480,481,482  IA 13FS-1 day,134,172,174,182  IA 14FS-1 day,181  IA 16  IA 190,154  IA 190,489SF+48 days,154,495FF,496FF  IA 190,489SS+48 days,154,495FF,496FF  IA 190,489SS+48 days,154  IA 489SS+48 days,150,154  IA 489SS+48 days,190,154  IA 489SS+48 days,190,154  IA 489SS+48 days,190,154  IA 489SS+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  504FS+2 days,57FF  502,57FF	203 days 203 days 203 days 203 days 30 days 0 days 0 days 0 days 0 days -135 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 days 0 days 0 days 1248 days 0 days 0 days 0 days	0%	S. 8		◆ 25/5			
CDS-5000 KD1J  CAA-1000 KD2B  CAA-1000 KD2B  CAA-1100 KD2B  CAA-1200 CAA-1300  CAA-1300 CAA-1300  CAA-1500 CAA-1500  CAA-1500 C	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. 13m 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 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  Trenchess 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 Morks Area (PPMI 054)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH or 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, CHPSW 1-6, CHTPS, CHPT182, CHTF1 182, CHTE, CHTD, Foam Collection & Surplus activated studge rising main pipe  Prainage  Sewerage  Waterworks  Cable Ducts  Roadworks  Landscaping Works	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days NA  0 days NA  180 days NA  180 days NA  180 days NA  1180 days NA  1180 days NA  122 days Fri 4/9/20  360 days Mon 1/2/21  1091 days Mon 24/2/20  029 0 days NA  0 days NA  0 days NA  0 days NA  122 days Fri 4/9/20  325 days Mon 24/2/20  029 0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 550 days NA  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Mon 29/6/20  550 days Fri 31/12/21	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA 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  NA NA NA NA NA NA NA NA NA Fri 6/5/22 Fri 6/5/22 Fri 6/5/22 Sat 28/10/23 Thu 27/3/25	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 185 days 185 days 1041 days 272 days 43 days 43 days 40 days 457 days 457 days 457 days 440 days 440 days 4794 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  Mon 24/5/21  Thu 2/7/20  Thu 3/1/2/20  Thu 3/1/2/20  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  Mon 19/10/20  Mon 19/10/20  Sat 7/5/22  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  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  Wind 28/6/21  Wind 28/6/21  Fri 22/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 1/3/21  Fri 6/5/22  Med 17/8/25	NA	IA 476 IA IA 15,154,190 20 20 20 20 20 IA 480,481,482 IA 480,481,482 IA 480,481,482 IA 14FS-1 day,134,172,174,182 IA 14FS-1 day,181 IA 16 IA 190,154 IA 190,154 IA 190,489SS+48 days,154,495FF,496FF IA 190,489SS+48 days,154 IA 489SS+48 days,190,154 IA 489SS+48 days,190,154 IA 489SS+48 days,190,154 IA 148SSS+48 days,190,154 IA 148SSS+48 days,190,154 IA 148SSS+48 days,190,154 IA 148SSS+48 days,190,154 IA 148SSS+48 days,190,154 IA 148SSS+48 days,190,154 IA 148SSS+48 days,190,154 IA 150,489SS+90,497 IA 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  502,57FF  54FF	203 days 203 days 203 days 203 days 30 days 0 days 0 days 0 days -135 days -135 days -135 days -135 days -135 days -135 days -135 days -10 days -135 days -10 days	0%	S. 8		◆ 25/5			
EDS-5000 KD1J  EAA-1000   EAA-1000   EAA-1000   EAA-1000   EAA-1000   EAA-1000   EAA-1300   EAA-1400   EAA-1400   EAA-1500   EAA-1500   EAA-160	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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 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  Trenchless 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  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, including CHT, CHX, CHY, CHPS182, CHS S1&2, CHDO 1&2, CHPSW 1-8, CHTPS, CHTPT 1&2, CHTT 1&2, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe  Vaterworks  Landscaping Works  Irrigation System	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days NA  0 days NA  180 days NA  180 days NA  180 days NA  1180 days NA  122 days Fri 4/9/20  360 days Mon 1/2/21  1091 days Mon 24/2/20  325 days NA  0 days NA  0 days NA  10 days NA  12 days Fri 4/9/20  360 days NA  12 days NA  12 days Non 24/2/20  325 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  056 O days NA  074 O days NA  550 days NA  074 O days NA  075 O days NA  076 O days NA  077 O days NA  077 O days NA  078 O days NA  079 O days NA  079 O days NA  079 O days NA  070 O days NA  070 O days NA  071 O days NA  072 O days NA  073 O days NA  074 O days NA  075 O days NA  075 O days NA  076 O days NA  077 O days NA  077 O days NA  078 O days NA  079 O	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA 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  NA NA NA NA NA NA NA NA Fri 6/5/22 Fri 6/5/22 Fri 6/5/22 Sat 28/10/23 Thu 27/3/25 Fri 30/9/22	0 days 918 days 320 days 135 days 135 days 135 days 135 days 135 days 185 days 60 days 122 days 360 days 1041 days 272 days 54 days 43 days 40 days 457 days 457 days 457 days 457 days 457 days 440 days 794 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 27/20  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  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 20/8/22  Sat 20/8/22	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 12/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Mon 3/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 1/3/21  Fri 6/5/22  Med 17/8/22  Med 17/8/22  Med 17/8/22  Fri 6/5/22  Med 17/8/22  Med 17/8/22  Fri 6/5/22  Med 17/8/22  Fri 6/5/22  Med 17/8/22  Fri 6/5/22  Med 17/8/25  Fri 13/1/23	NA	IA 476  IA 15,154,190  20  20  20  20  20  21  22  24  25  26  27  28  28  29  29  20  20  20  20  20  20  20  20	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  504FF  505,58FF	203 days 203 days 203 days 203 days 30 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 364 days 0 days 1103.2 days 0 days 0 days 1248 days 1248 days 363 days 340 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%	S. 8		◆ 25/5			
CDS-5000 KD1J  CAA-0000 *  CAA-1000 KD2B  CAA-1000 KD2B  CAA-1200 CAA-1300  CAA-1300 CAA-1300  CAA-1300 CAA-1400  CAA-1500 CAA-1500  CAA-1600 CAA-1600  CAA-1600  CAA	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 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 Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m thin DN900 D.I.)  Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Cornicle 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)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH obelay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHDO1 and CHDO2  Process Pipes, including CHT, CHX, CHY, CHPS182, CHS S182, CHDO 182, CHPSW 1-6, CHPT182, CHTFT 182, CHTFL, CHTD, Foam Collection & Surplus activated shudge rising main pipe  Drainage  Sewerage  Waterworks  Landscaping Works  Irrigation System  Hard Landscaping Works	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days Wed 29/1/20  057 0 days NA  0 days NA  180 days Wed 29/1/20  064 0 days NA  1122 days Fri 4/9/20  365 days Mon 1/2/21  1091 days Mon 24/2/20  029 0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 550 days NA  0 550 days NA  074 0 days NA  0550 days NA  0756 0 days NA  076 0 days NA  0776 1 days NA  0776 0 days NA  0776 0 days NA  0776 1 days NA  0786/20  0 days NA  0796/20  0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA 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 NA NA NA NA NA NA NA NA NA Tri 6/5/22 Fri 6/5/22 Fri 6/5/22 Fri 6/5/22 Fri 6/5/22 Sat 28/10/23 Thu 27/3/25 Fri 30/9/22 Mon 3/7/23	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 160 days 122 days 360 days 1041 days 54 days 43 days 43 days 457 days 457 days 457 days 457 days 440 days 7794 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  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  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  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  Sat 7/5/22  Sat 20/8/22  Sat 20/8/22  Sat 14/1/23	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We down 28/6/21  Wed 4/8/21  Thu 6/7/23  Sat 28/10/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 11/3/21  Fri 6/5/22  Med 17/8/22  Med 17/8/22  Med 17/8/22  Med 17/8/22  Med 17/8/22  Fri 6/5/22  Med 17/8/22  Fri 6/5/22  Med 17/8/23  Med 30/8/23  Wed 30/8/23  Mon 3/8/20	NA	IA 476  IA 15,154,190  20  20  20  20  21  24  25  26  27  28  28  29  29  20  20  20  20  20  20  20  20	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  57FF,502  504FF  506,58FF  506,58FF	203 days 203 days 203 days 203 days 536 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 536 days 41 days 0 days 0 days 1103.2 days 0 days 0 days 1248 days 363 days 340 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%	S. 8		◆ 25/5			
DS-5000 KD1J AA-0000 * AA-1000 KD2B AA-1100 KD2B AA-1100 AA-1200 AA-1300 AA-1400 AA-1500 AA-1500 KD1J AA-1600 KD1J AA-1600 KD1J AA-1600 KD1J AA-1600 KD2A UU-1000 KD2A UU-1000 KD2A UU-1000 KD2A UU-1000 KD2A UU-1000 WD2 UU-1	Allow access to Contractor DE/2018/04 for E&M installation and T&C works  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 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 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  Trenchless 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  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, including CHT, CHX, CHY, CHPS182, CHS S1&2, CHDO 1&2, CHPSW 1-8, CHTPS, CHTPT 1&2, CHTT 1&2, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe  Vaterworks  Landscaping Works  Irrigation System	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days NA  0 days NA  180 days NA  180 days NA  180 days NA  1180 days NA  122 days Fri 4/9/20  360 days Mon 1/2/21  1091 days Mon 24/2/20  325 days NA  0 days NA  0 days NA  10 days NA  12 days Fri 4/9/20  360 days NA  12 days NA  12 days Non 24/2/20  325 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  056 O days NA  074 O days NA  550 days NA  074 O days NA  075 O days NA  076 O days NA  077 O days NA  077 O days NA  078 O days NA  079 O days NA  079 O days NA  079 O days NA  070 O days NA  070 O days NA  071 O days NA  072 O days NA  073 O days NA  074 O days NA  075 O days NA  075 O days NA  076 O days NA  077 O days NA  077 O days NA  078 O days NA  079 O	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20  NA 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  NA NA NA NA NA NA NA NA Fri 6/5/22 Fri 6/5/22 Fri 6/5/22 Sat 28/10/23 Thu 27/3/25 Fri 30/9/22	0 days 918 days 320 days 135 days 135 days 135 days 135 days 135 days 185 days 60 days 122 days 360 days 1041 days 272 days 54 days 43 days 40 days 457 days 457 days 457 days 457 days 457 days 440 days 794 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  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  Thu 27/20  Thu 27/20  Thu 27/20  Thu 27/20  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  Sat 7/5/22  Sat 20/8/22  Sat 20/8/22  Sat 14/1/23	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We 12/1/21  Sat 30/1/21  Thu 6/7/23  Sat 28/10/23  Wed 4/8/21  Mon 3/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 1/3/21  Fri 6/5/22  Med 17/8/22  Med 17/8/22  Med 17/8/22  Fri 6/5/22  Med 17/8/22  Med 17/8/22  Fri 6/5/22  Med 17/8/22  Fri 6/5/22  Med 17/8/22  Fri 6/5/22  Med 17/8/25  Fri 13/1/23	NA	IA 476  IA 15,154,190  20  20  20  20  20  21  22  24  25  26  27  28  28  29  29  20  20  20  20  20  20  20  20	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  504FF  505,58FF	203 days 203 days 203 days 203 days 30 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 364 days 0 days 1103.2 days 0 days 0 days 1248 days 1248 days 363 days 340 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%	S. 8		◆ 25/5			
EDS-5000 KD1J  EAA-1000   EAA-1000   EAA-1000   EAA-1000   EAA-1000   EAA-1000   EAA-1300   EAA-1400   EAA-1400   EAA-1500   EAA-1500   EAA-160	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 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 Membrane Facilities Building No.1  External Underground Service, Utilities, Road/Drain  Process Pipes CHR and CHS (approx. 93m thin DN900 D.I.)  Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Cornicle 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)  Ground settlement near CHR CHS Open trench due to leakage of water main at SSSH obelay Delivery of DI pipes due to COVID-19  Change alignment and fittings for CHDO1 and CHDO2  Process Pipes, including CHT, CHX, CHY, CHPS182, CHS S182, CHDO 182, CHPSW 1-6, CHPT182, CHTFT 182, CHTFL, CHTD, Foam Collection & Surplus activated shudge rising main pipe  Drainage  Sewerage  Waterworks  Landscaping Works  Irrigation System  Hard Landscaping Works	0 days Wed 26/1/22  662 days Wed 29/1/20  180 days Wed 29/1/20  180 days Wed 29/1/20  057 0 days NA  0 days NA  180 days Wed 29/1/20  064 0 days NA  1122 days Fri 4/9/20  365 days Mon 1/2/21  1091 days Mon 24/2/20  029 0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 days NA  0 550 days NA  0 550 days NA  074 0 days NA  0550 days NA  0756 0 days NA  076 0 days NA  0776 1 days NA  0776 0 days NA  0776 0 days NA  0776 1 days NA  0786/20  0 days NA  0796/20  0 days NA	Wed 26/1/22 Fri 22/4/22 Thu 3/9/20 NA 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 NA NA NA NA NA NA NA NA NA Tri 6/5/22 Fri 6/5/22 Fri 6/5/22 Fri 6/5/22 Fri 6/5/22 Sat 28/10/23 Thu 27/3/25 Fri 30/9/22 Mon 3/7/23	0 days 918 days 320 days 135 days 135 days 135 days 185 days 185 days 185 days 160 days 122 days 360 days 1041 days 54 days 43 days 43 days 457 days 457 days 457 days 457 days 440 days 7794 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  Ann 24/5/21  Thu 27/20  Thu 31/12/20  Mon 19/10/20  Mon 1/10/20	Tue 25/5/21  Thu 6/7/23  Mon 28/6/21  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Tue 10/11/20  Mon 28/6/21  We down 28/6/21  Wed 4/8/21  Thu 6/7/23  Sat 28/10/23  Sat 28/10/23  Wed 4/8/21  Thu 20/8/20  Mon 16/11/20  Thu 4/2/21  Tue 9/2/21  Thu 11/3/21  Fri 6/5/22  Med 17/8/22  Med 17/8/22  Med 17/8/22  Med 17/8/22  Med 17/8/22  Fri 6/5/22  Med 17/8/22  Fri 6/5/22  Med 17/8/23  Med 30/8/23  Wed 30/8/23  Mon 3/8/20	NA	IA 476  IA 15,154,190  20  20  20  20  21  24  25  26  27  28  28  29  29  20  20  20  20  20  20  20  20	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  57FF,502  504FF  506,58FF  506,58FF	203 days 203 days 203 days 203 days 536 days 0 days 0 days 0 days 135 days -135 days -135 days -10 days 536 days 41 days 0 days 0 days 1103.2 days 0 days 0 days 1248 days 363 days 340 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%	S. 8		◆ 25/5			

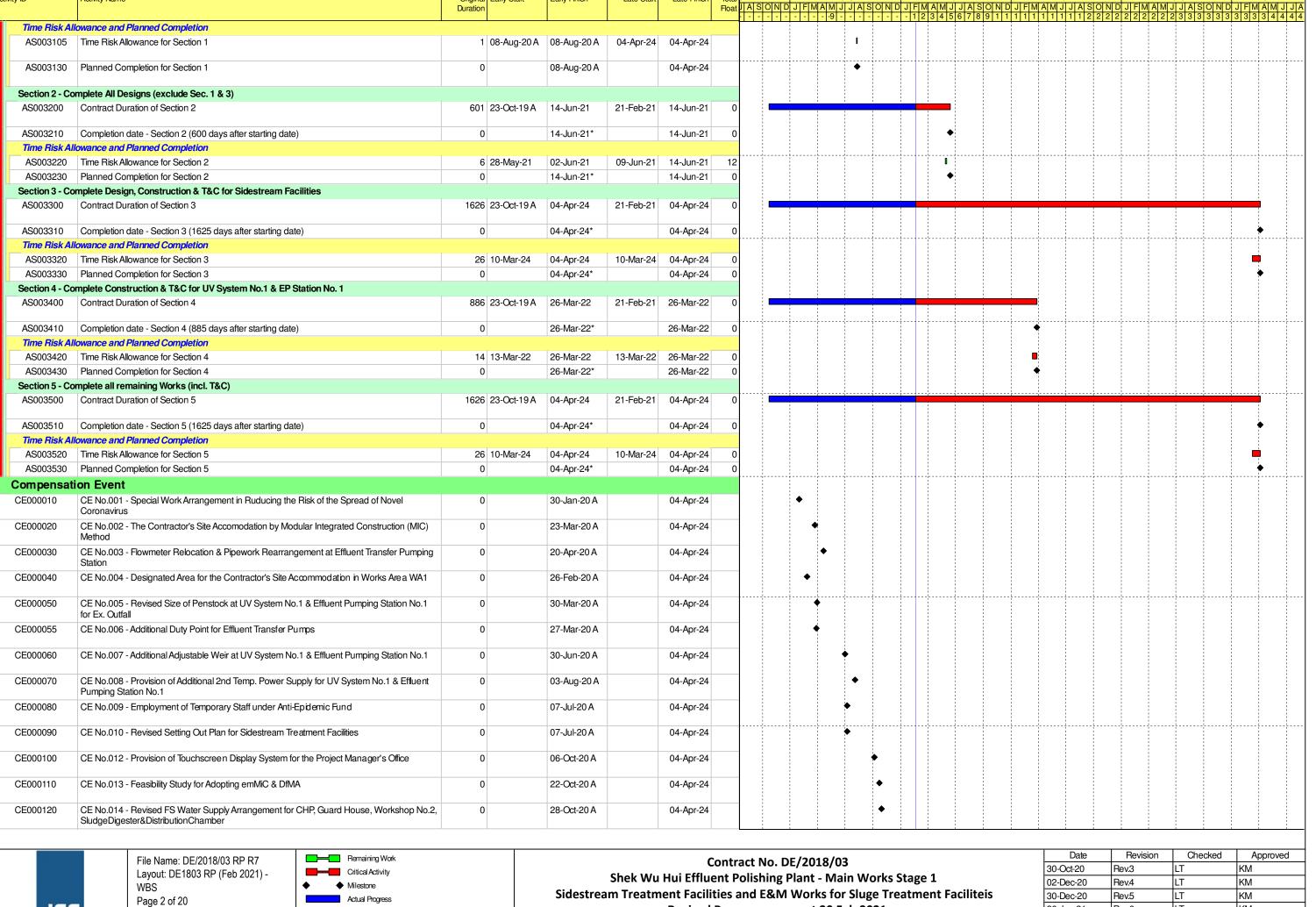




Activity Name

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

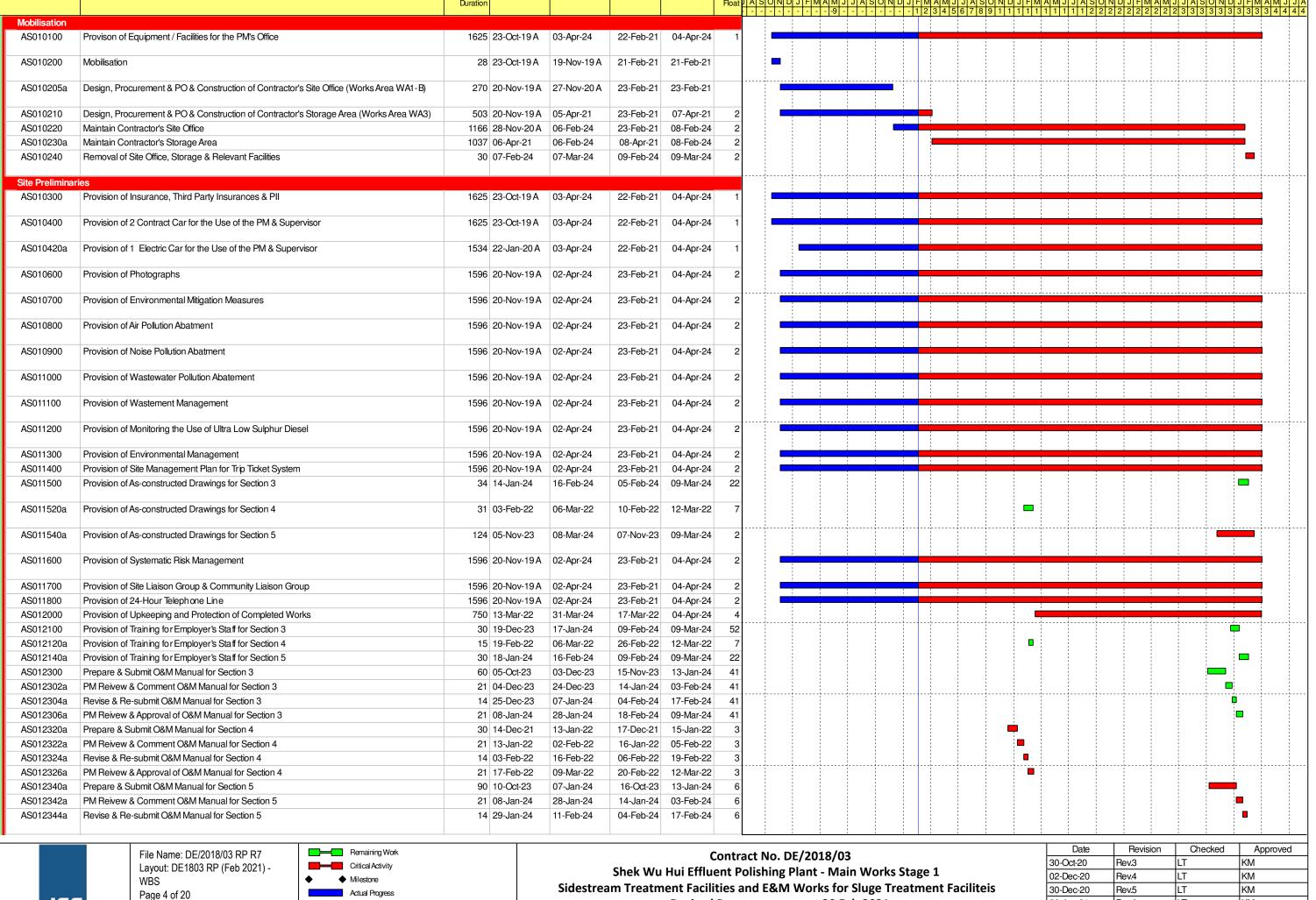


Actual Progress

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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	Total 9 Float J	A SOND J F MAM	020 JIJIAISI	OIND	JIFIMIAIN	2021 MJJASO	NI DI JI FIM	2022   A  M  J  J	AISIOINI		2023   J  J  A  S	ONDJ	2024 J F M A M	JIJIA
0500100	CENIC 015 Deviced District Assessment for Wedgler No. 0.11/10.555 cent No. 1.01D	Duration	00.0+00.4		04 Amy 04		9				1 5 6 7 8 9	<del></del>		$\rightarrow$				3 3 3 4	
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				1							 		
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		0		<del>:                                    </del>	-	+			! ! ! ! ! !						
OE000358	NCE-NCE-0219 - Revised Access Date for Portion B-2b	1 26 Con 21	26-Sep-21*	26 Con 21	26-Sep-21								¦						
CE000258 CE000260	NCE-PMI-0220 - Supply of Puddle Pipes for Effluent to Shek Sheung River	1 26-Sep-21 0	30-Dec-20 A	26-Sep-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	0	12-Jan-21 A		04-Apr-24				•	•				1					
CE000290	Building  NCE-PMI-0223 - Construction of Trial Pits for Sidestream Treatment Facilities	0	15-Jan-21 A		04-Apr-24				•	•									
CE000300	NCE-PMI-0224 - Independent Inspection Body (IIB) for the Factory Acceptance Test (FAT) for	0	25-Jan-21 A		04-Apr-24					•									
Preliminari	UV Disinfeciton System es																		
	File Name: DE/2018/03 RP R7 Remaining Work									, '		1	Da	ate T	Revision	Chec	cked T	Approv	/ed
	Tile Name: BE/2010/03 NT N7						ct No. DE/2018/0		_				30-Oct-2		Rev.3	LT		KM	$\dashv$
	Layout: DE1803 RP (Feb 2021) -			Shek Wu	ı Hui Efflu	ent Po	lishing Plant - Ma	in Wo	rks St	age 1			02-Dec-		Rev.4	LT		KM	$\neg \neg$
	Page 3 of 20 Actual Progress		Sidestrea	am Treatn	nent Facili	ties an	nd E&M Works fo	r Slug	e Trea	tment	<b>Faciliteis</b>		30-Dec-	20_	Rev.5	LT		KM	
JE	1 490 0 01 20				Revised	Progra	amme - as at 20 F	eb 20	21				26-Jan-2		Rev.6	LT		KM	
25													26-Feb-	21	Rev.7	LT		KM	

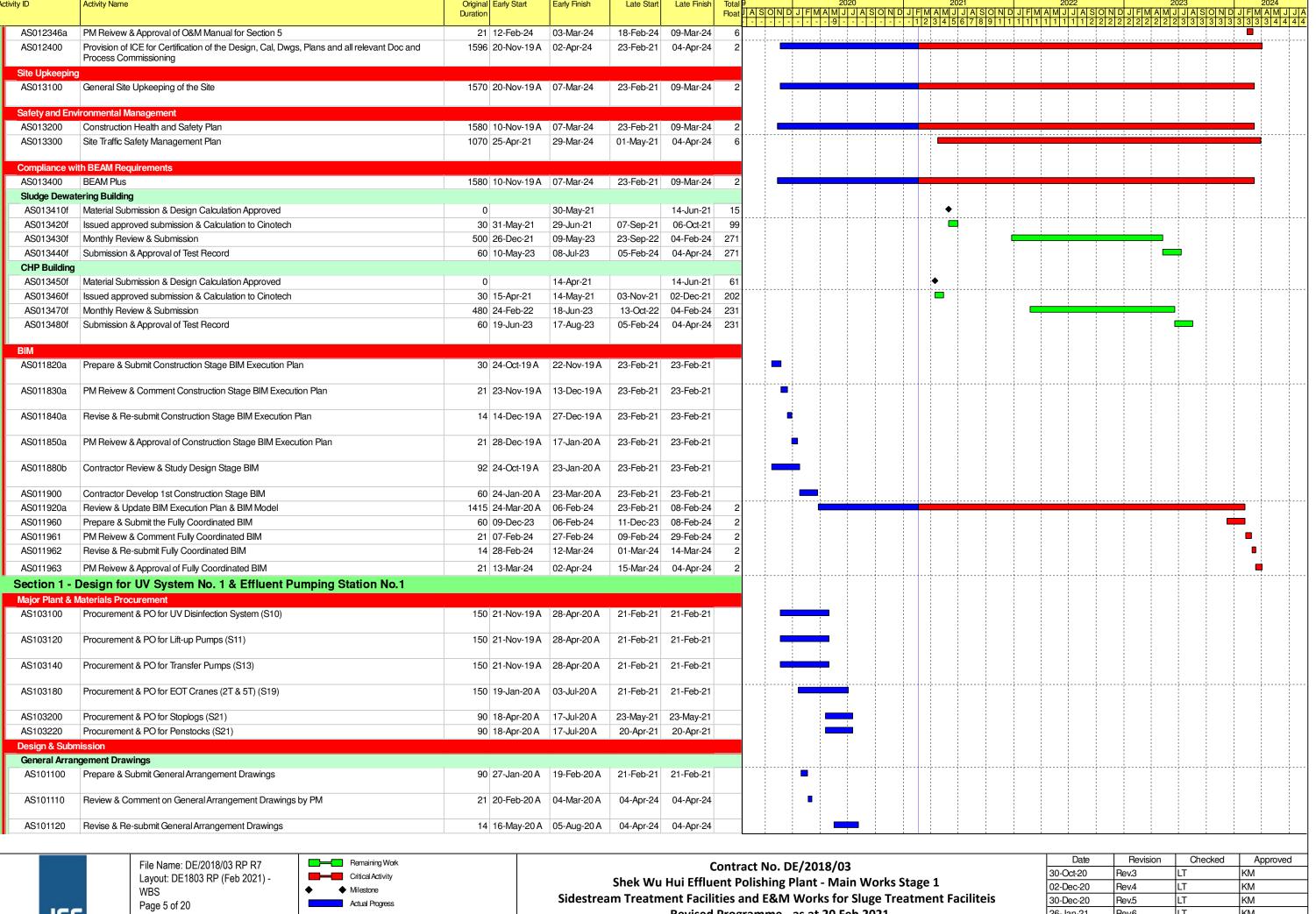


Activity Name

Actual Progress

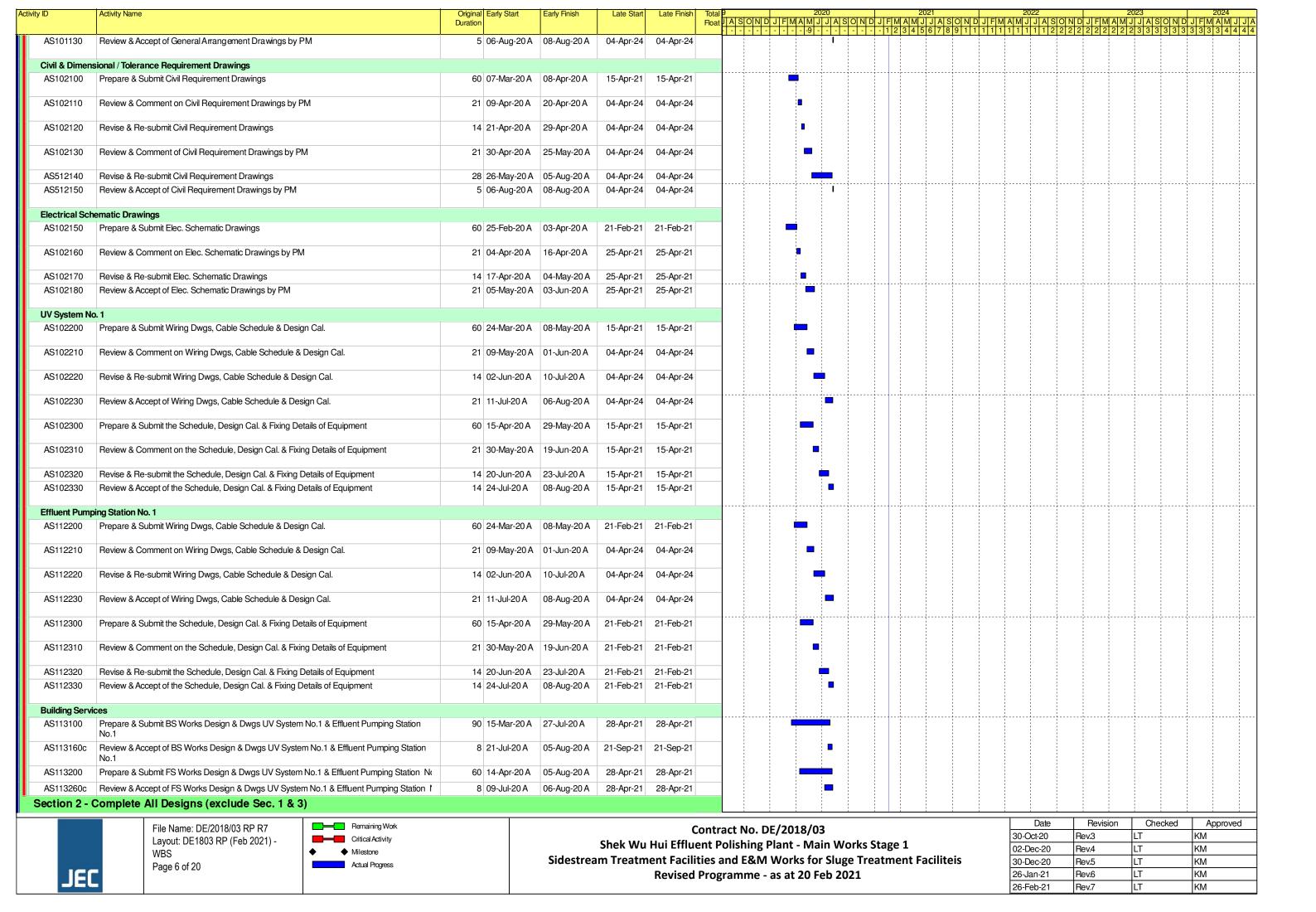
Revised Programme - as at 20 Feb 2021

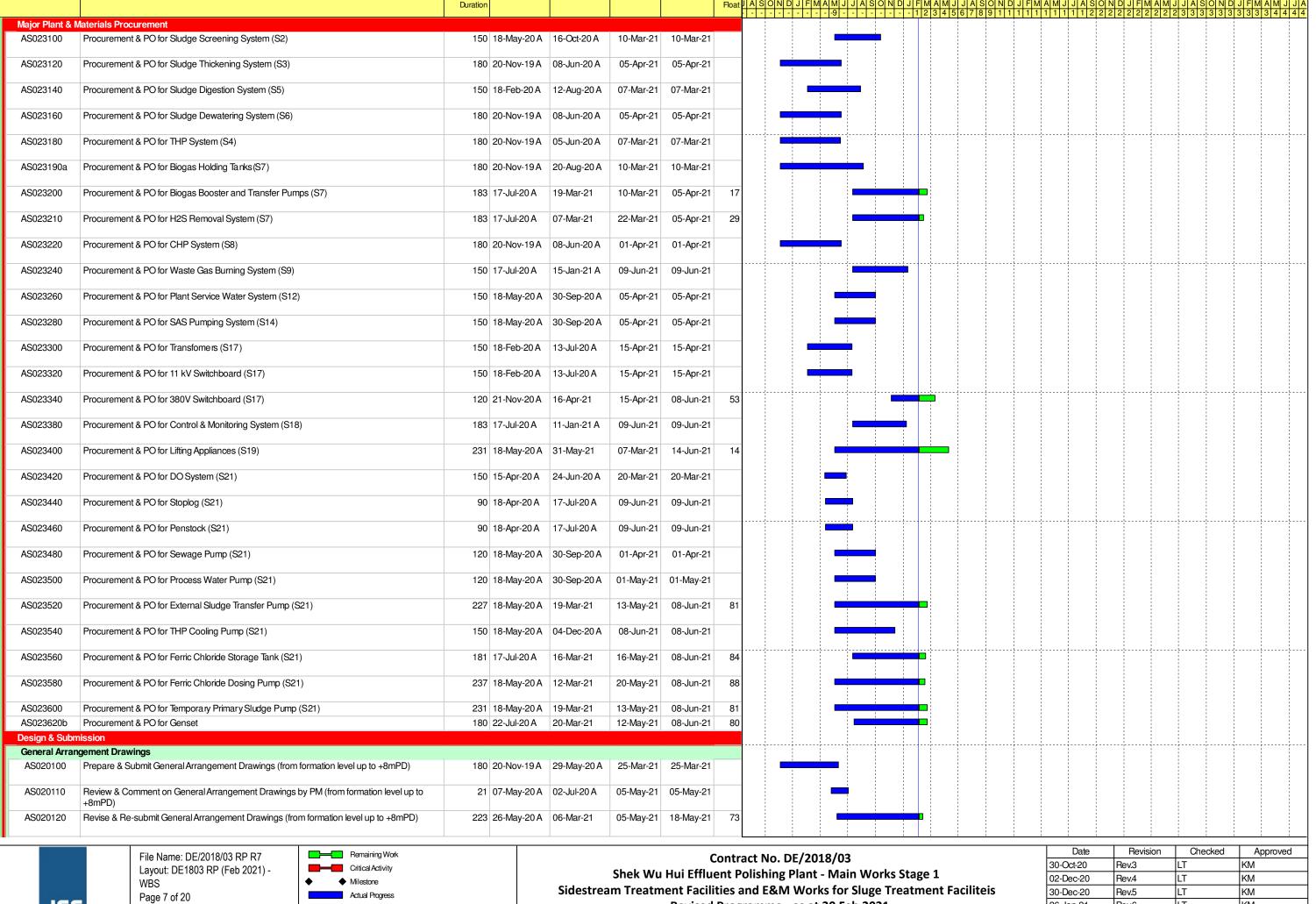
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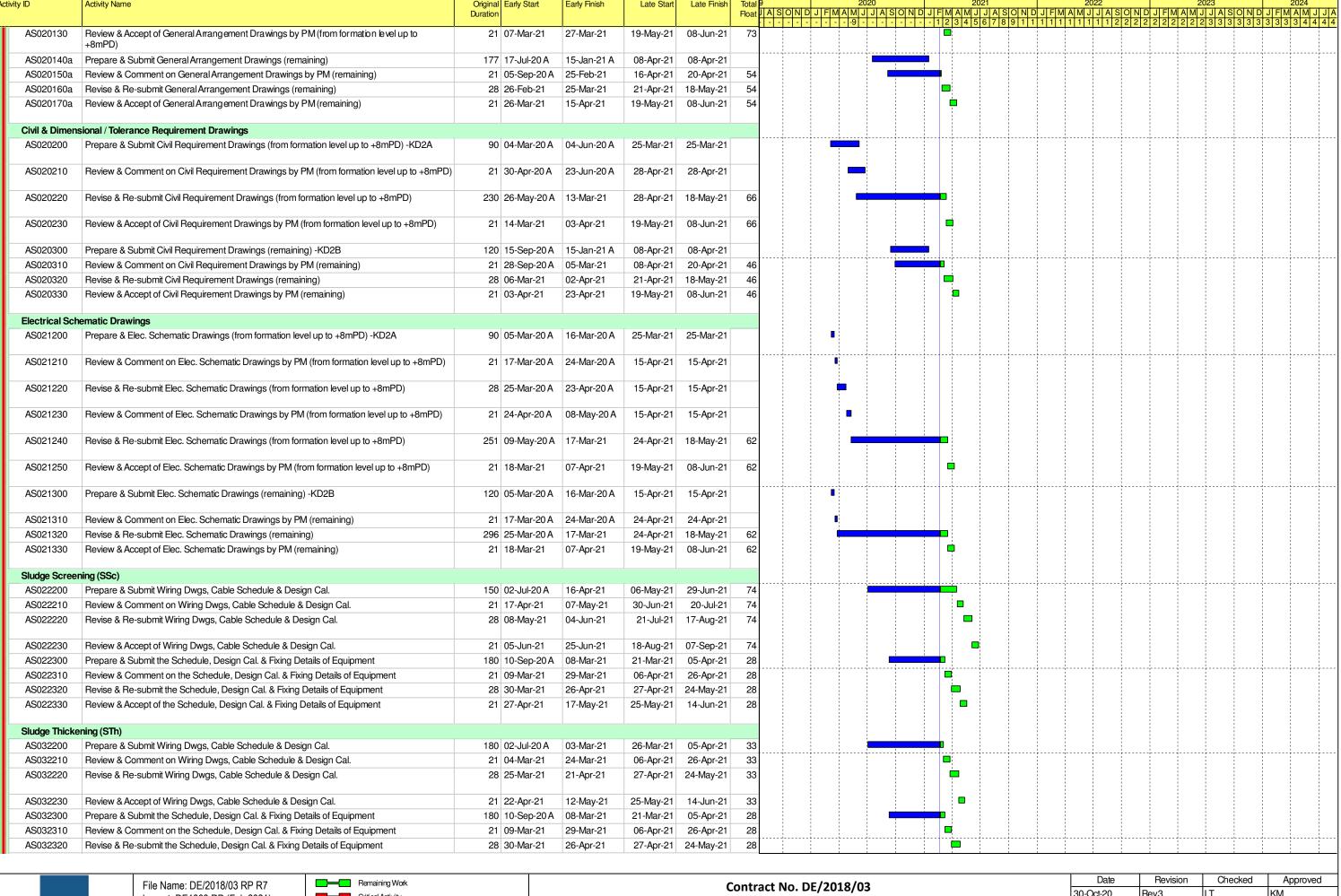
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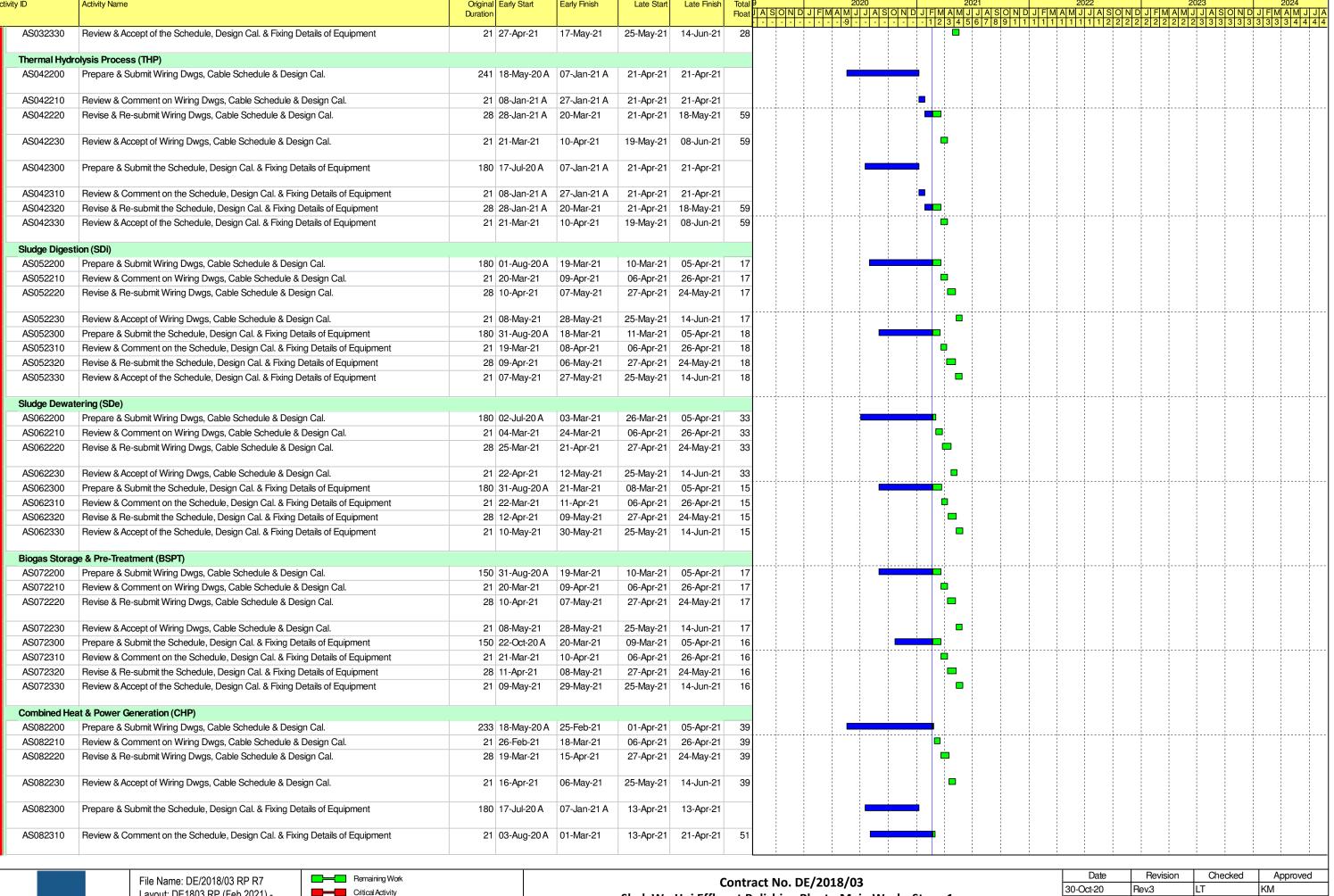


File Name: DE/2018/03 RP R7 Layout: DE1803 RP (Feb 2021) -WBS Page 8 of 20



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





File Name: DE/2018/03 RP R7 Layout: DE1803 RP (Feb 2021) -WBS Page 9 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

Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Tota Floa	at JASOND	202 J F M A M J 9 -	20 J A S O N D	D J F M A	2021 A M J J	A S O N	NDJFM	2022 A M J J	ASO	NDJFM	202 1 A M J	23 J A S O N D	2024 J F M A N	/ 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	5		1 1 1 1 9 1			<u> </u>	1, 10 01.		<u> </u>	<u> </u>	<u>-1-1-1-1-</u>	<u> - - - </u>		0 0 0 0	
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	5	1											; ; ; ;		
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				1									
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	8		_											
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	8			•										
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	8							<u> </u>			<u> </u>			
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	В													
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													
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	20	- : :			-					1			! ! !		
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	14	5													
AS142210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 22-Mar-21	11-Apr-21	06-Apr-21	· ·	1.	5													
AS142220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 12-Apr-21	09-May-21	·	24-May-21	15	5			Ī	-									
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	6	5		-									!		
AS142330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 21-Mar-21	10-Apr-21	·	14-Jun-21	6	<b>-</b>			•								 		
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										ł			
AS182210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 20-Mar-21	09-Apr-21	06-Apr-21	· ·	17	7													
AS182220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 10-Apr-21	07-May-21	27-Apr-21	· ·	1.	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		! ! !						-			1 1 1		
AS182300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	75 14-Dec-20 A	18-Mar-21	11-Mar-21		18	8			<u> </u>					}			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>		<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	8													
Lifting Applia	nces														1			1 1 1		
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											:		
AS192210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 22-Mar-21	11-Apr-21		03-May-21	22								; <del>;</del>	<del>-</del>			<del> </del>	<del> </del>	
AS192220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	21 12-Apr-21	02-May-21	· ·	24-May-21	22	2			C	•									
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								į			: : : :		
AS192300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	93 30-Oct-20 A	02-Mar-21	03-Apr-21	-	4	1										1 !	: ! !		
AS192310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 03-Mar-21	23-Mar-21		03-May-21	4	1											1		
AS192320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	21 24-Mar-21	13-Apr-21	04-May-21	-	4	1								:		1	 		
AS192330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 14-Apr-21	04-May-21	25-May-21	14-Jun-21	4	1		 						 			!		
	File Name: DE/2018/03 PD P7 Remaining Work				_			. /o.o.: a /o.=		1   1	i		!	D	ate	Revis	ion T	Checked	Appro	ved
	File Name: DE/2018/03 RP R7 Layout: DE1803 RP (Feb 2021) - Gritical Activity						tract No. DE				_			30-Oct-2		Rev.3		.T	KM	
	WBS ← Milestone						Polishing Pl			_				02-Dec		Rev.4	L	.Т	KM	
	Page 10 of 20 Actual Progress		Sidestrea	m Treatn	nent Facili	ties	and E&M \	Norks for	Sluge Tre	eatmer	nt Fac	iliteis		30-Dec-	-20	Rev.5	TL	Т	KM	

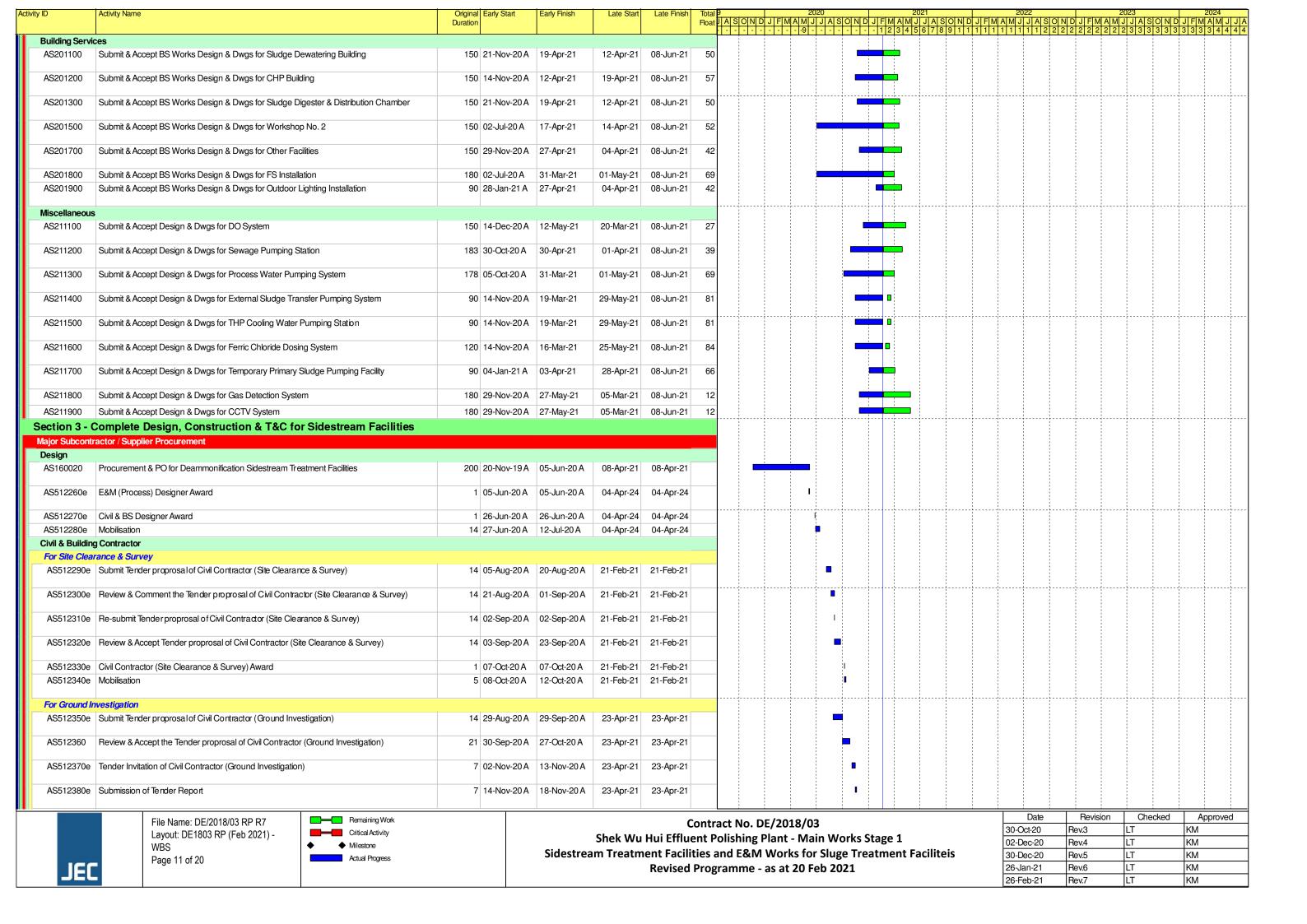
**JEC** 

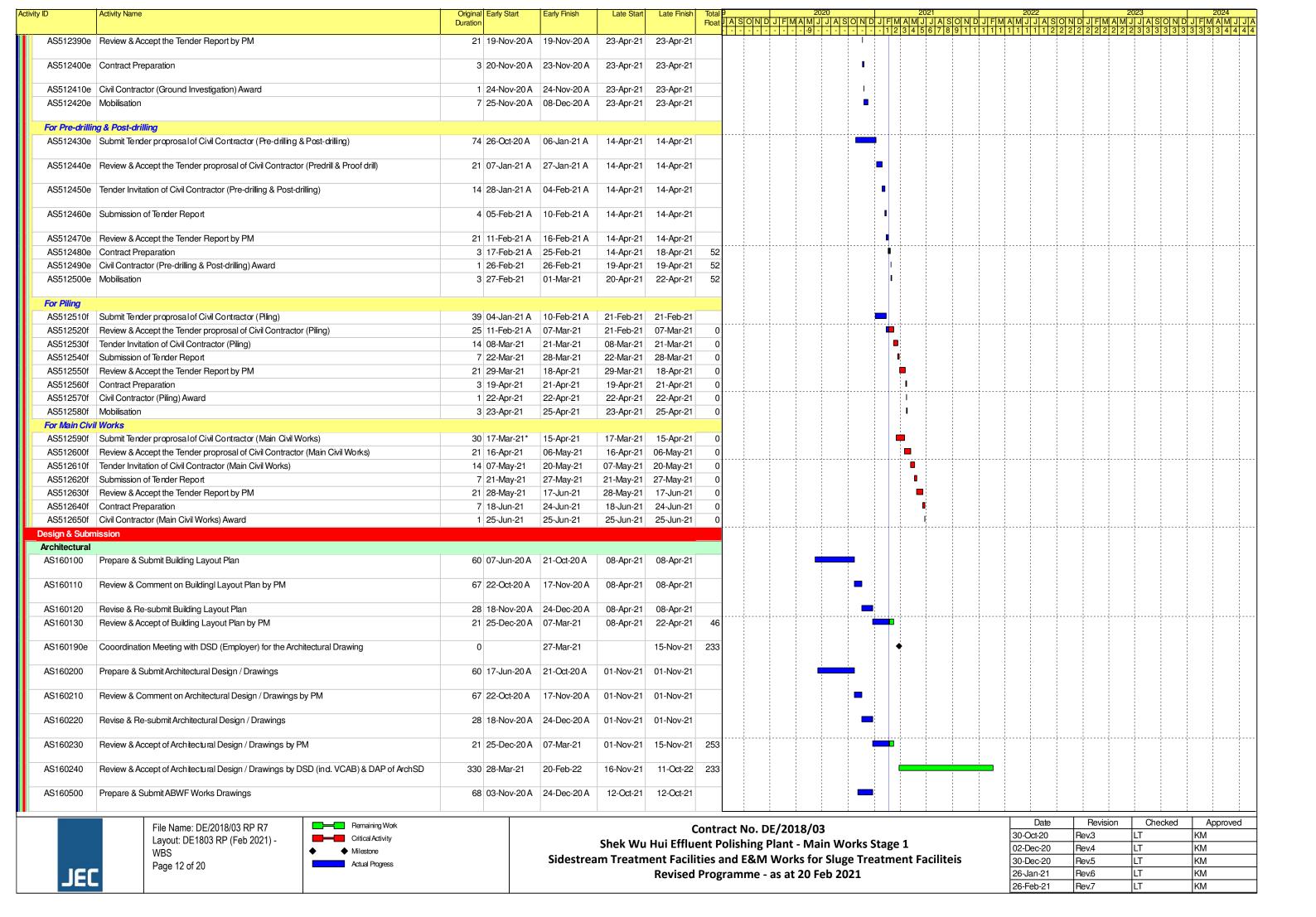
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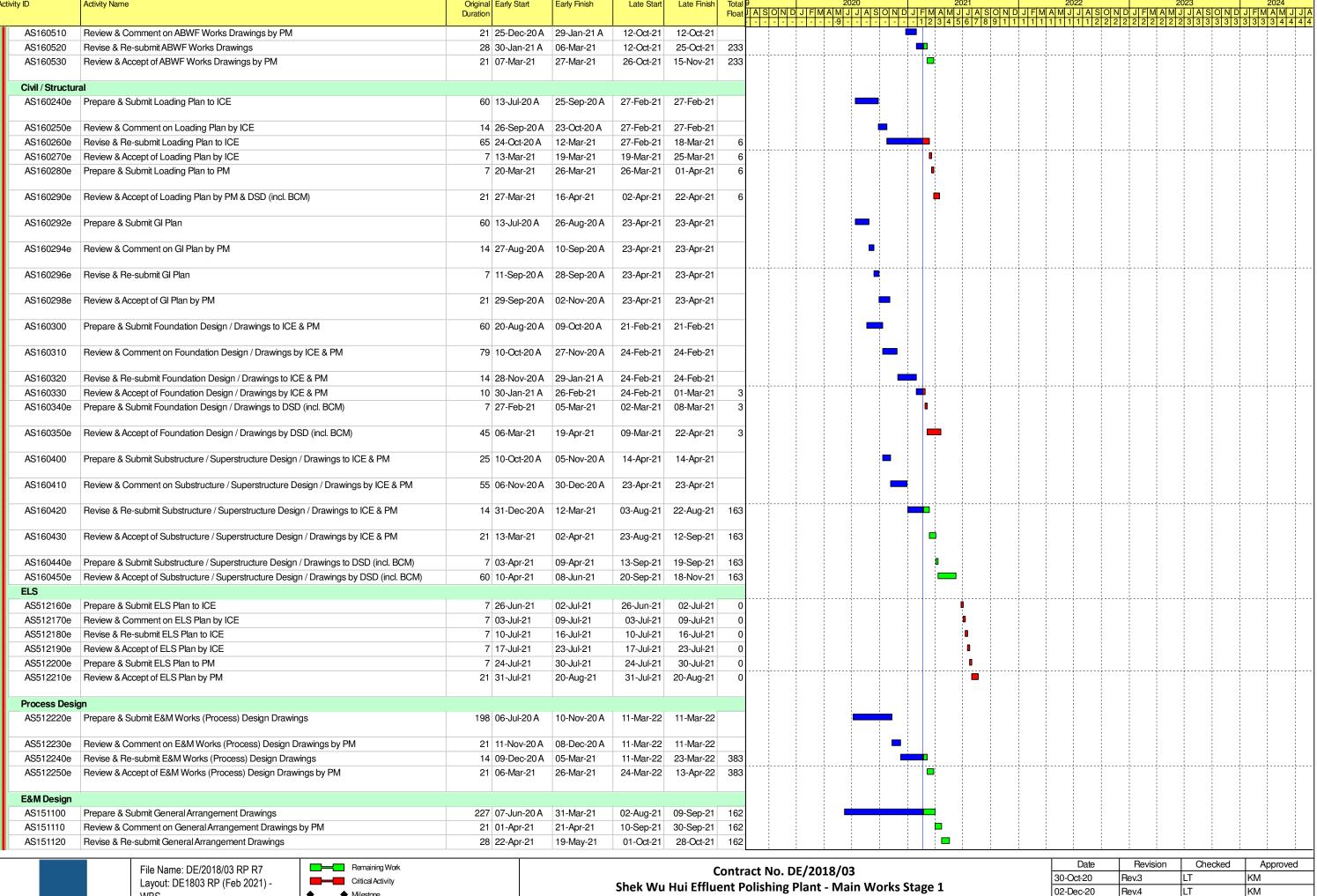
Actual Progress

Revised Programme - as at 20 Feb 2021

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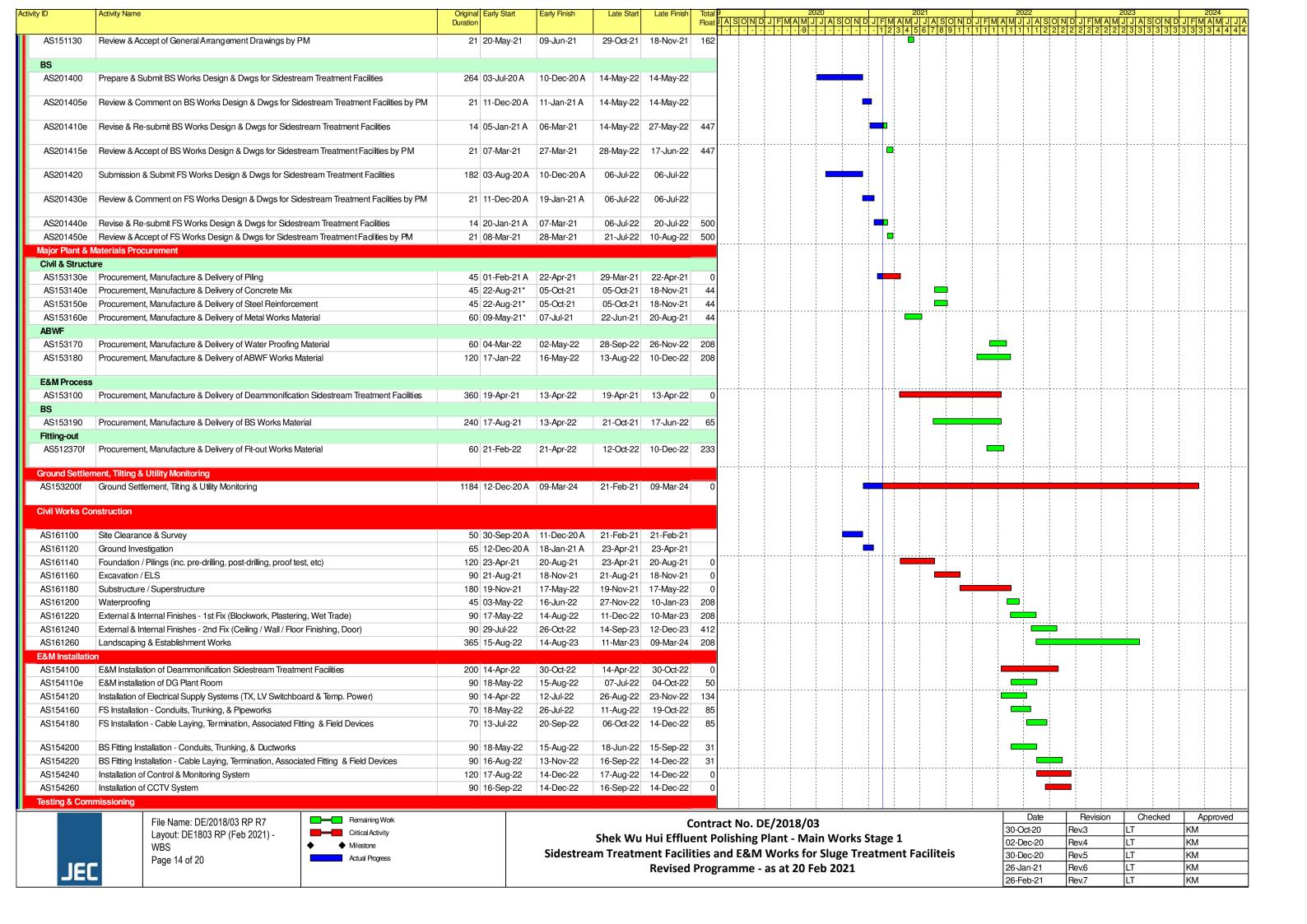


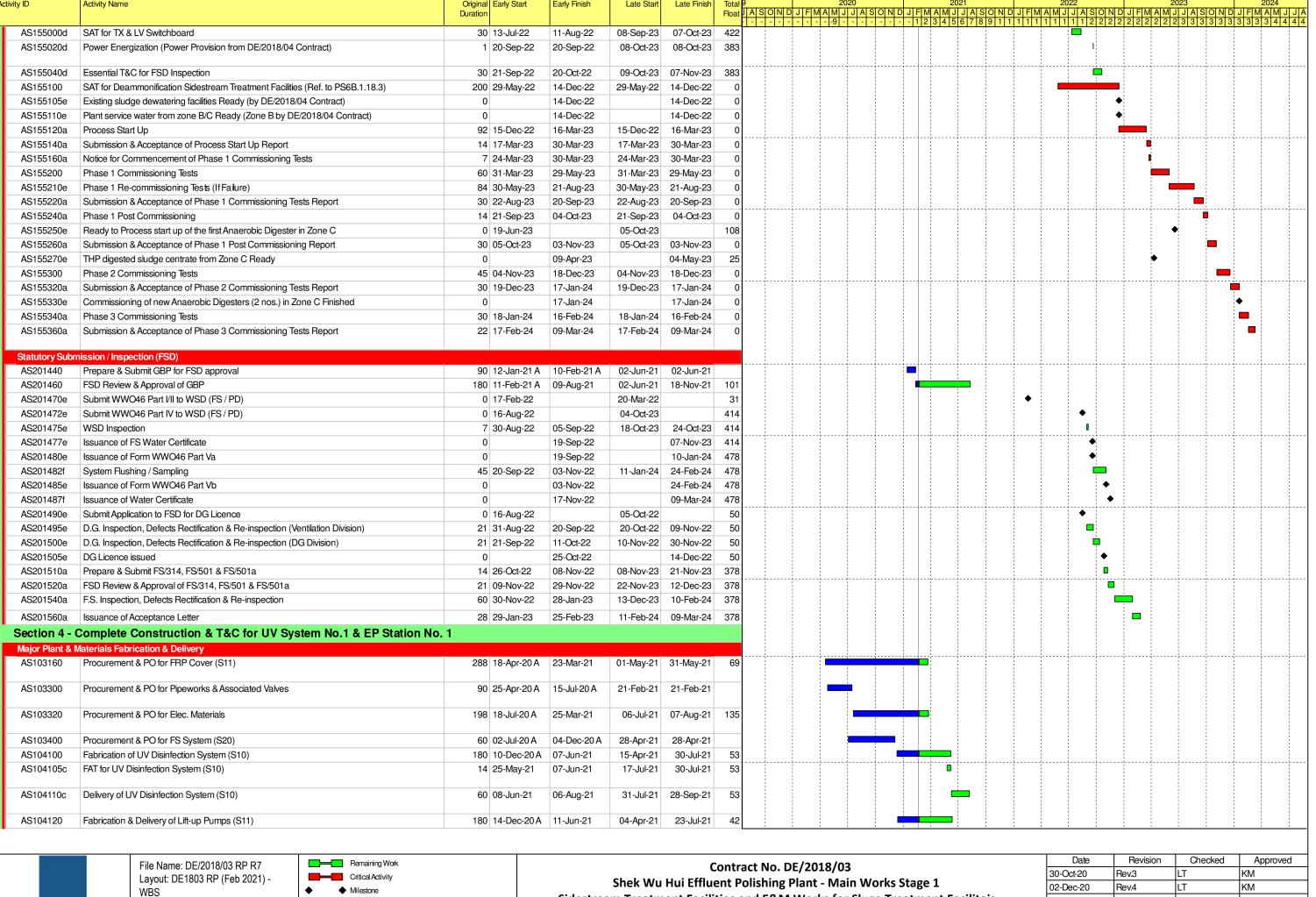
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 Milestone Actual Progress

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

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





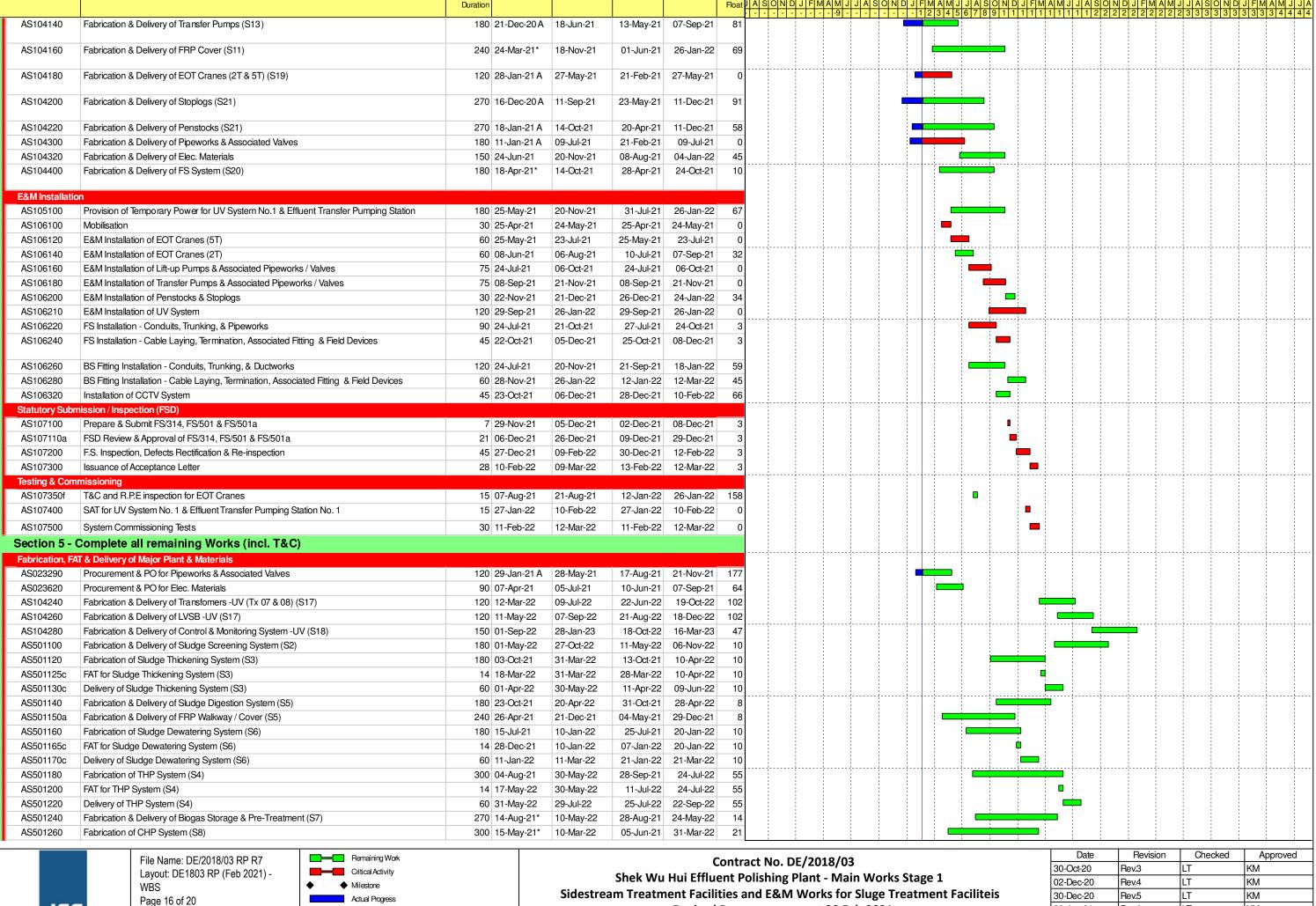


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Actual Progress

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

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

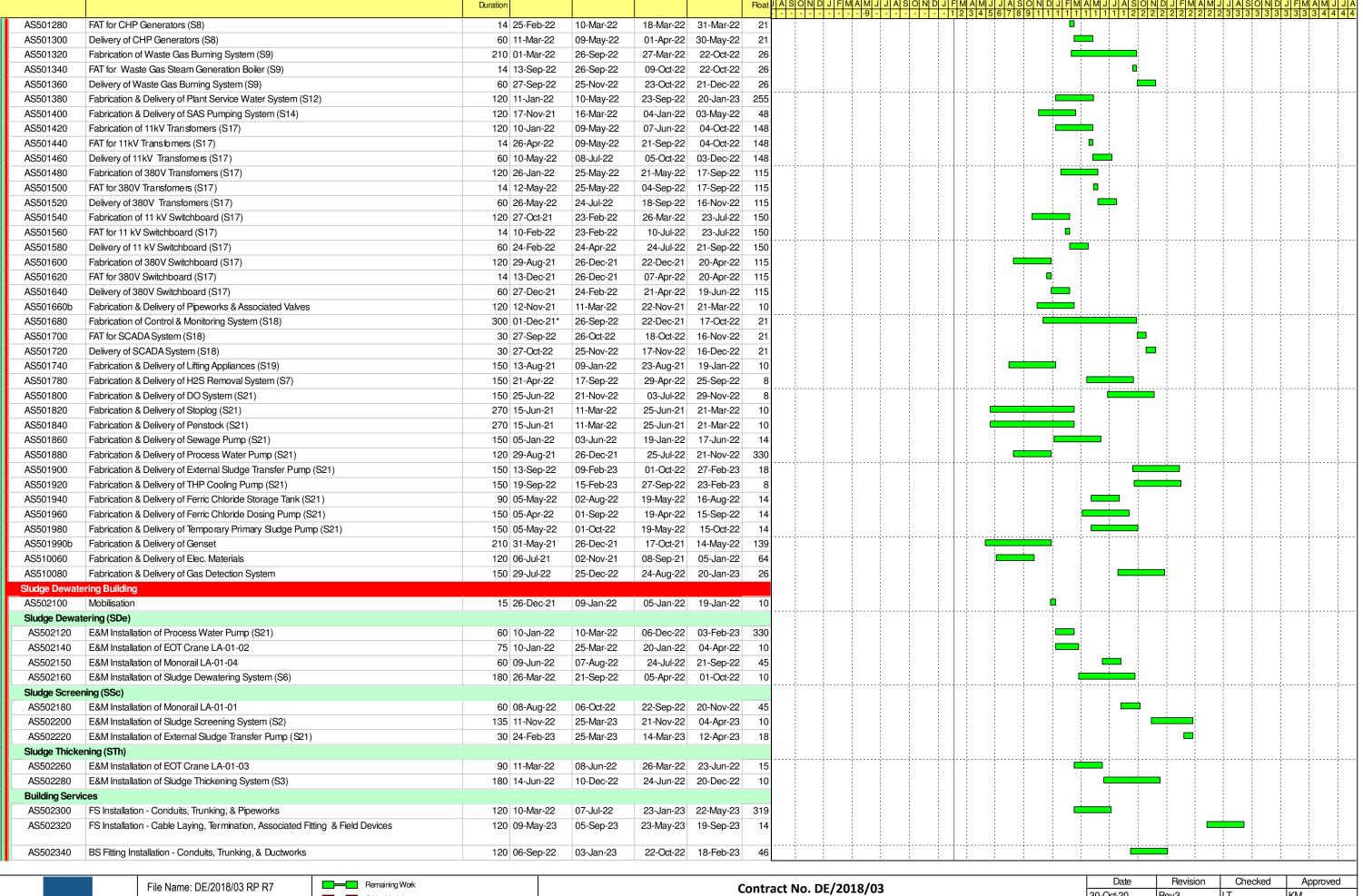


Activity Name



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



JEC

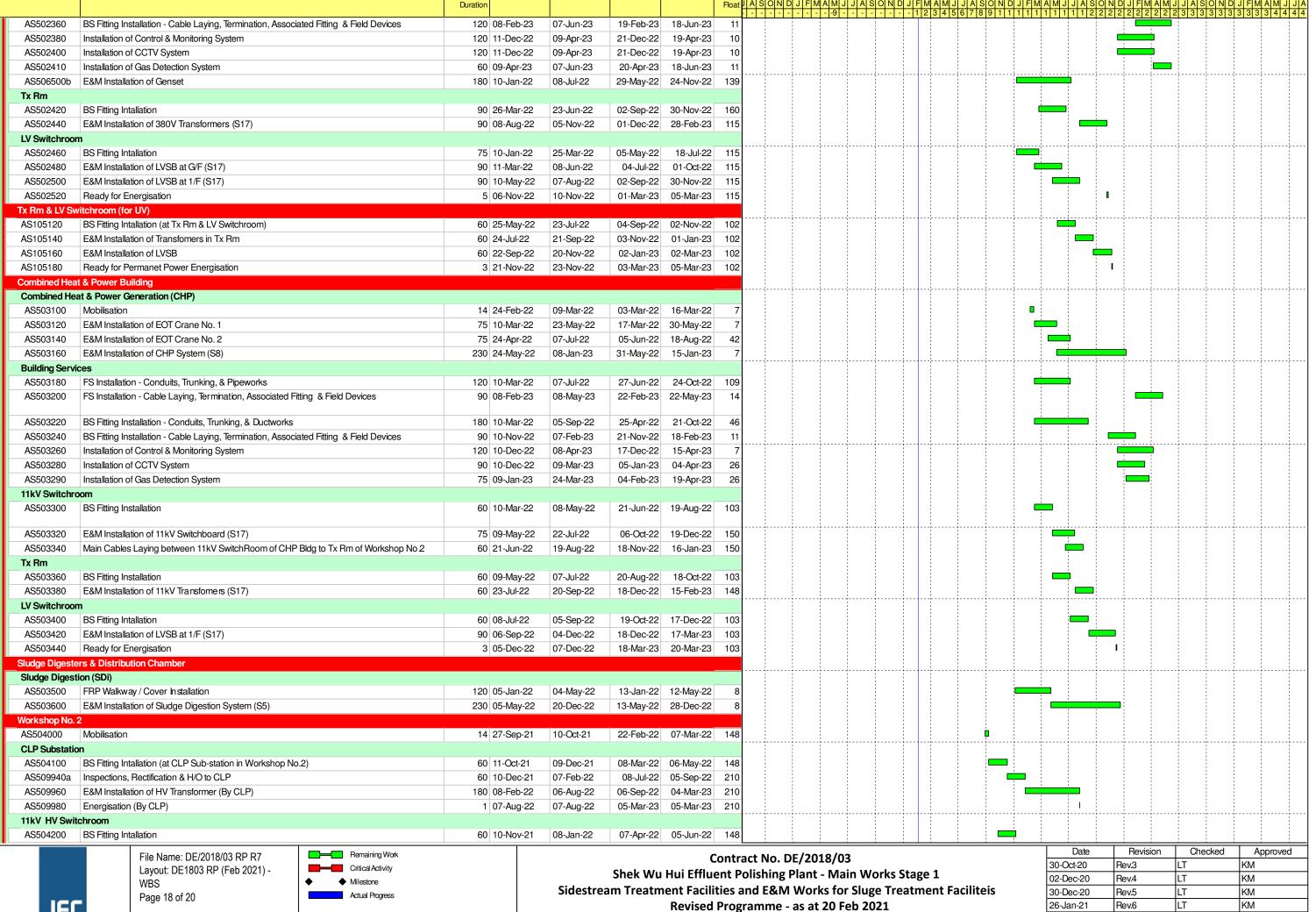
Activity Name

File Name: DE/2018/03 RP R7 Layout: DE1803 RP (Feb 2021) -WBS Page 17 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

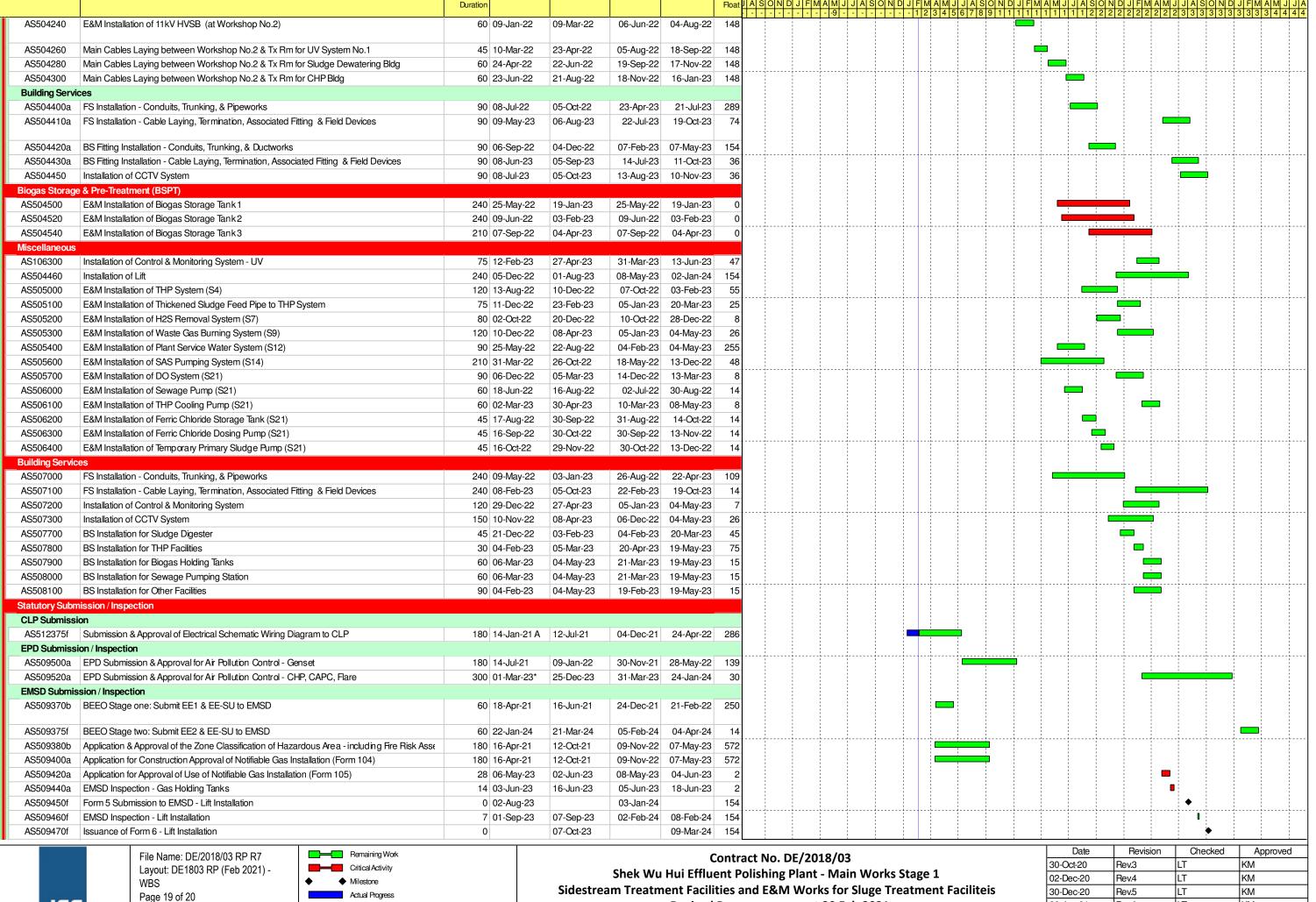
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30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM



Activity Name

Revised Programme - as at 20 Feb 2021

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26-Feb-21	Rev.7	LT	KM

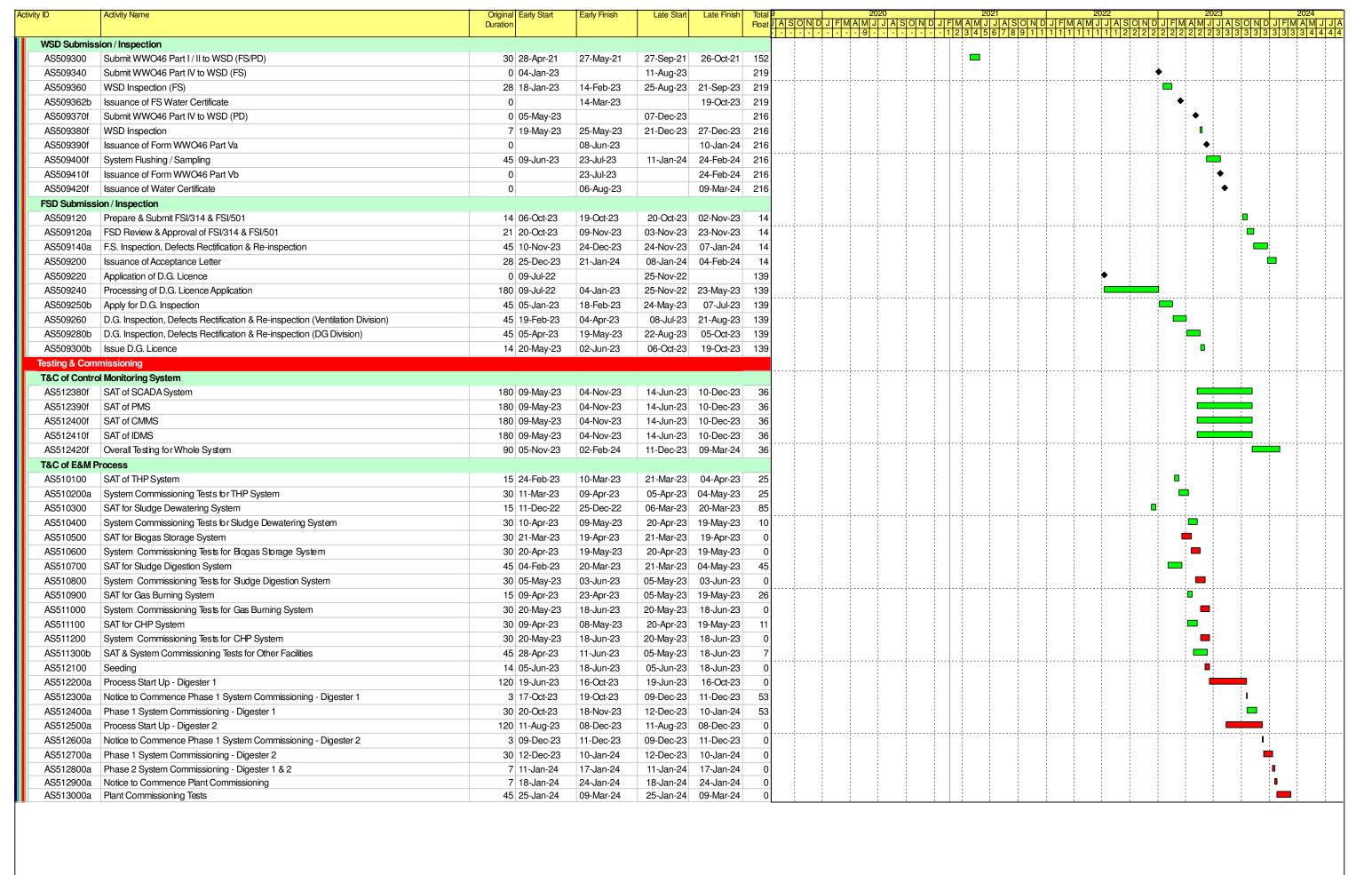


Activity Name

Actual Progress

Revised Programme - as at 20 Feb 2021

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



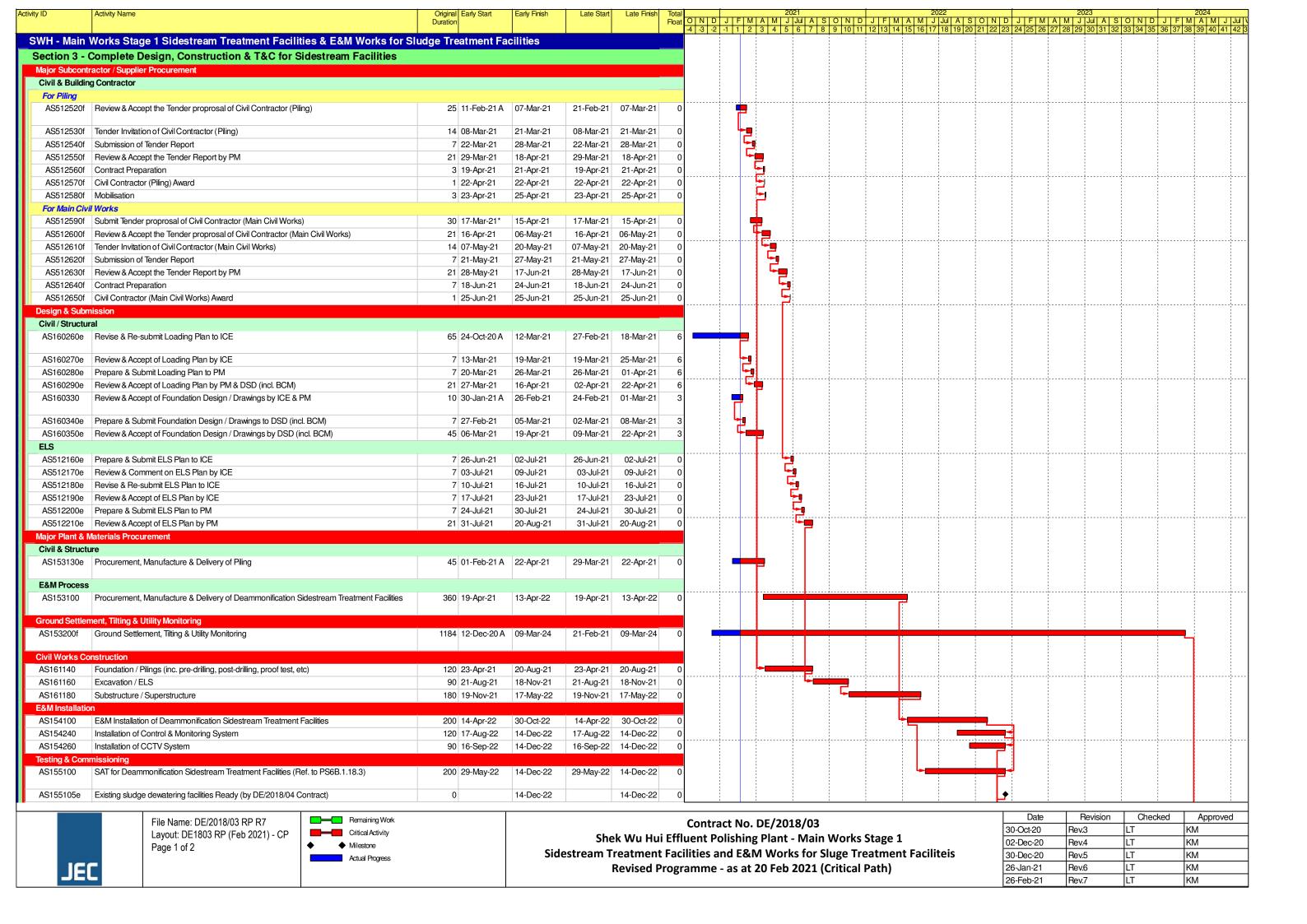


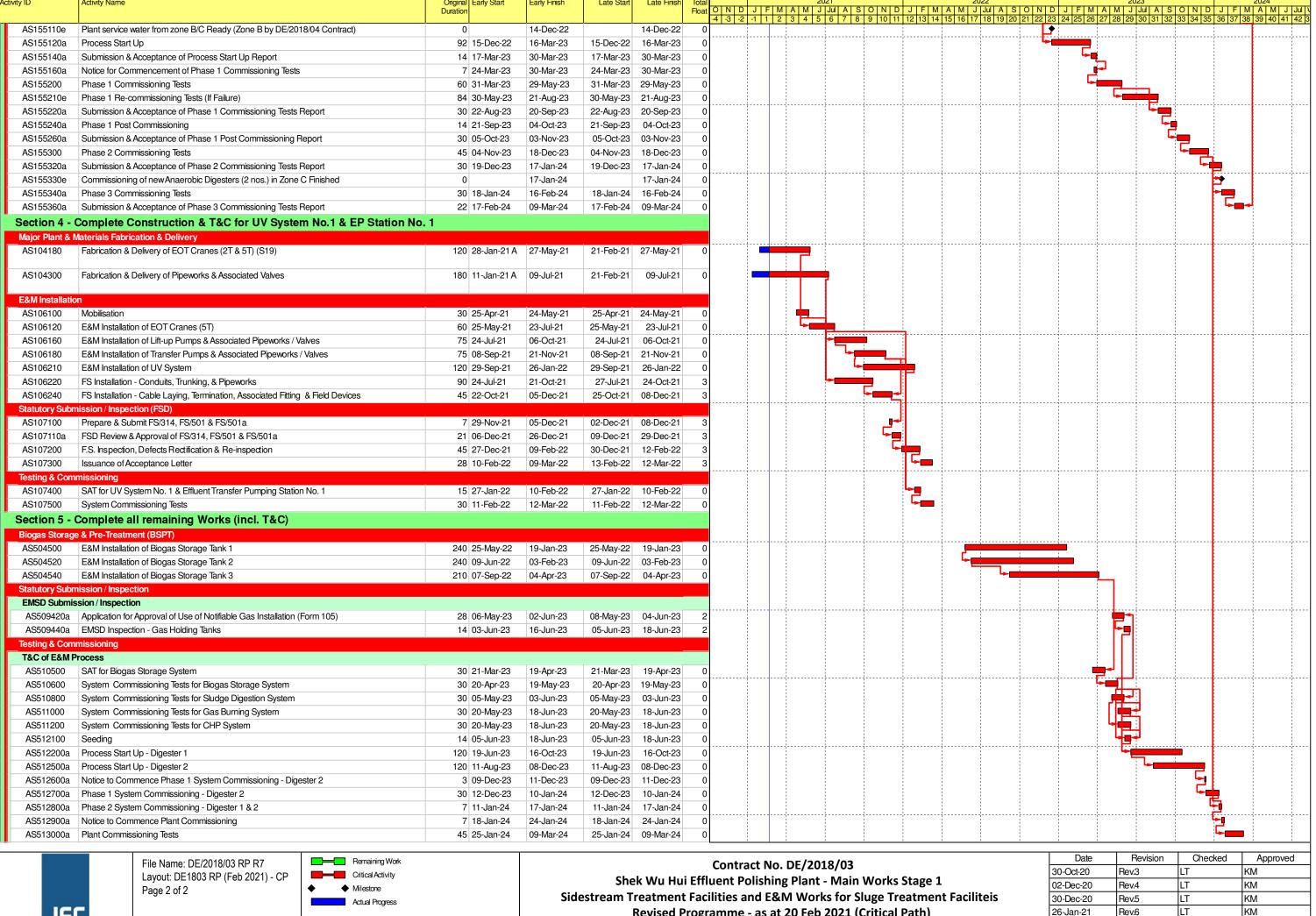
File Name: DE/2018/03 RP R7 Layout: DE1803 RP (Feb 2021) -WBS Page 20 of 20



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



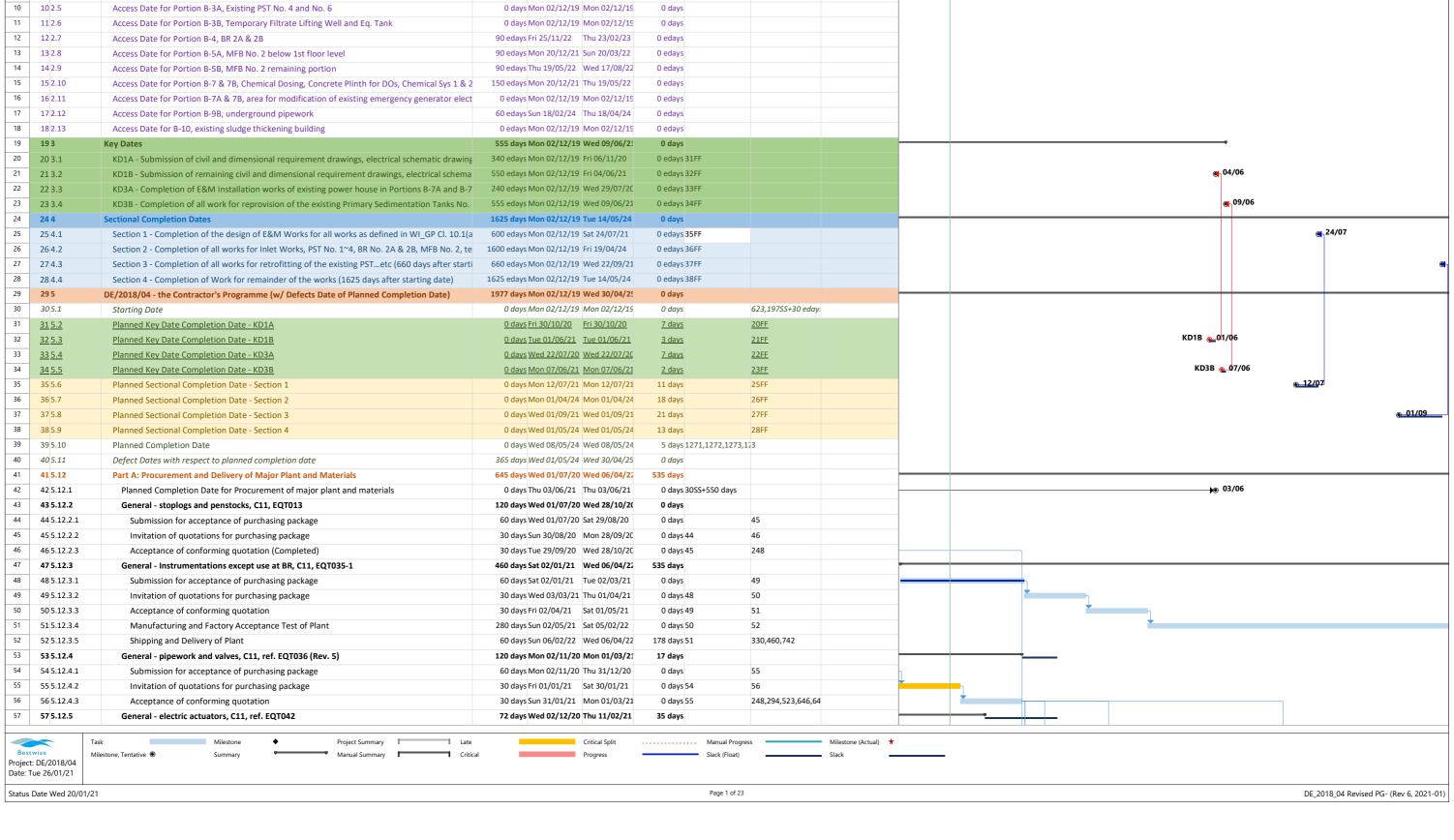


JEC

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

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

9	Drainage Service:	s Department operal Administrative Region		Shek Wu Hui Effluent P	Proposed Work Pro Olishing Plant - Main Wor	rogramme for DE/2018 orks Stage 1 E&M Work		nent Facilities						A	ECOV
	ID WBS	Task Name	Duration between Task Start and Finish	Start Finish	Float Time Predecess	sors Successors	Resource Na	ames 2021 Half 1, 20	021	ı	М		Half 2, 2021		
1	11	DE/2018/04 - Contract Master Programme		Mon 02/12/19 Tue 13/05/25	0 days						IVI	IVI		J	
2	2 1.1	Starting Date	0 days	Mon 02/12/19 Mon 02/12/1	S O days	3SS+1625 e	lays,623								
	3 1.2	Completion Date	0 days	Tue 14/05/24 Tue 14/05/24	0 days 2SS+162	25 edays,354									
	4 1.3	Defect Dates with respect to Completion Date	365 days	Tue 14/05/24 Tue 13/05/25	0 days 3										
	52	Access Dates	1599 days	Mon 02/12/19 Thu 18/04/24	0 days										
	6 2.1	Access Date for Works Area WA1-C		Mon 02/12/19 Sat 29/02/20	0 days										
4	7 2.2	Access Date for Works Area WA2-C		Mon 02/12/19 Sat 29/02/20	0 days										
4	8 2.3	Access Date for Portion B-2, Inlet Works No. 1		Tue 28/06/22 Fri 25/11/22	0 edays										
+	9 2.4	Access Date for Portion B-3, PST No. 1~4		Sat 14/01/23 Fri 14/04/23	0 edays										
4	10 2.5	Access Date for Portion B-3A, Existing PST No. 4 and No. 6		Mon 02/12/19 Mon 02/12/1											
-	11 2.6	Access Date for Portion B-3B, Temporary Filtrate Lifting Well and Eq. Tank		Mon 02/12/19 Mon 02/12/1											
4	12 2.7	Access Date for Portion B-4, BR 2A & 2B		Fri 25/11/22 Thu 23/02/23											
-	13 2.8	Access Date for Portion B-5A, MFB No. 2 below 1st floor level		Mon 20/12/21 Sun 20/03/22 Thu 19/05/22 Wed 17/08/2											
-	14 2.9 15 2.10	Access Date for Portion B-5B, MFB No. 2 remaining portion  Access Date for Portion B-7 & 7B, Chemical Dosing, Concrete Plinth for DOs, Chemical Sys 1 & 2		Thu 19/05/22 Wed 17/08/2 Mon 20/12/21 Thu 19/05/22											
4															
	16 2.11 17 2.12	Access Date for Portion B-7A & 7B, area for modification of existing emergency generator elect		Mon 02/12/19 Mon 02/12/1 Sun 18/02/24 Thu 18/04/24											
+	18 2.13	Access Date for Portion B-9B, underground pipework		Mon 02/12/19 Mon 02/12/1											
1	193	Access Date for B-10, existing sludge thickening building  Key Dates		s Mon 02/12/19 Wed 09/06/2	-								•		
	20 3.1	KD1A - Submission of civil and dimensional requirement drawings, electrical schematic drawing		Mon 02/12/19 Fri 06/11/20	0 edays 31FF										
	21 3.2	KD1A - Submission of civil and dimensional requirement drawings, electrical schematic drawing KD1B - Submission of remaining civil and dimensional requirement drawings, electrical schema	·	Mon 02/12/19 Fri 04/06/21	0 edays 32FF								04/06		
ł	22 3.3	KD3A - Completion of E&M Installation works of existing power house in Portions B-7A and B-7		s Mon 02/12/19 Wed 29/07/2	· · · · · · · · · · · · · · · · · · ·							G)			
1	23 3.4	KD3B - Completion of all work for reprovision of the existing Primary Sedimentation Tanks No.		s Mon 02/12/19 Wed 29/07/2	-								<b>6</b> 09/06		
	24 4	Sectional Completion Dates		s Mon 02/12/19 Tue 14/05/24									G		
	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		Mon 02/12/19 Sat 24/07/21										<b>24/07</b>	
1	26 4.2	Section 2 - Completion of all works for Inlet Works, PST No. 1~4, BR No. 2A & 2B, MFB No. 2, te		Mon 02/12/19 Fri 19/04/24	0 edays 36FF										
	27 4.3	Section 3 - Completion of all works for retrofitting of the existing PSTetc (660 days after starti		Mon 02/12/19 Wed 22/09/2											
+	28 4.4	Section 4 - Completion of Work for remainder of the works (1625 days after starting date)		Mon 02/12/19 Tue 14/05/24											
+	29 5	DE/2018/04 - the Contractor's Programme (w/ Defects Date of Planned Completion Date)		s Mon 02/12/19 Wed 30/04/2	-										
	30 5.1	Starting Date		Mon 02/12/19 Mon 02/12/1		623,197SS-	30 edav:								
	31 5.2	Planned Key Date Completion Date - KD1A		Fri 30/10/20 Fri 30/10/20	7 days	20FF									
1	32 5.3	Planned Key Date Completion Date - KD1B		Tue 01/06/21 Tue 01/06/21		21FF						KD1B <b>←</b> 0	1/06		
	33 5.4	Planned Key Date Completion Date - KD3A		Wed 22/07/20 Wed 22/07/2		22FF									
	34 5.5	Planned Key Date Completion Date - KD3B		Mon 07/06/21 Mon 07/06/2		23FF						KD3B	07/06		
	35 5.6	Planned Sectional Completion Date - Section 1		Mon 12/07/21 Mon 12/07/2		25FF							<u>a_12/</u>	07	
+	36 5.7	Planned Sectional Completion Date - Section 2		Mon 01/04/24 Mon 01/04/2		26FF									
+	37 5.8	Planned Sectional Completion Date - Section 3		Wed 01/09/21 Wed 01/09/2		27FF								•	01/09
	38 5.9	Planned Sectional Completion Date - Section 4		Wed 01/05/24 Wed 01/05/2		28FF									
	39 5.10	Planned Completion Date		Wed 08/05/24 Wed 08/05/2		72,1273,123									
+	40 5.11	Defect Dates with respect to planned completion date		Wed 01/05/24 Wed 30/04/2											
1	41 5.12	Part A: Procurement and Delivery of Major Plant and Materials		Wed 01/07/20 Wed 06/04/2											
1	42 5.12.1	Planned Completion Date for Procurement of major plant and materials		Thu 03/06/21 Thu 03/06/21		60 days						₩	03/06		
1	43 5.12.2	General - stoplogs and penstocks, C11, EQT013	120 days	Wed 01/07/20 Wed 28/10/2	0 days										
1	44 5.12.2.1	Submission for acceptance of purchasing package		Wed 01/07/20 Sat 29/08/20		45									
1	45 5.12.2.2	Invitation of quotations for purchasing package	30 days	Sun 30/08/20 Mon 28/09/2	0 days 44	46									
1	46 5.12.2.3	Acceptance of conforming quotation (Completed)	30 days	Tue 29/09/20 Wed 28/10/2	0 days 45	248									
1	47 5.12.3	General - Instrumentations except use at BR, C11, EQT035-1	460 days	Sat 02/01/21 Wed 06/04/2	2 535 days			-							
1	48 5.12.3.1	Submission for acceptance of purchasing package	60 days	Sat 02/01/21 Tue 02/03/21	0 days	49									
1	49 5.12.3.2	Invitation of quotations for purchasing package	30 days	Wed 03/03/21 Thu 01/04/21	0 days 48	50				<u> </u>					
	50 5.12.3.3	Acceptance of conforming quotation	30 days	Fri 02/04/21 Sat 01/05/21	0 days 49	51					+	<u> </u>			
	51 5.12.3.4	Manufacturing and Factory Acceptance Test of Plant	280 days	Sun 02/05/21 Sat 05/02/22	0 days 50	52						+			
	52 5.12.3.5	Shipping and Delivery of Plant	60 days	Sun 06/02/22 Wed 06/04/2	2 178 days 51	330,460,74									
l	53 5.12.4	General - pipework and valves, C11, ref. EQT036 (Rev. 5)	120 days	Mon 02/11/20 Mon 01/03/2	1 17 days										
+	54 5 12 4 1	Submission for accentance of nurchasing nackage		Mon 02/11/20 Thu 31/12/20		55				1					



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

WBS Task Name 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 5.12.6 105 days Mon 04/01/21 Sun 18/04/21 General - HV Switchboards, C9, ref. EQT031 (Rev. 5) 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 Date: Tue 26/01/21

**Drainage Services Department** 

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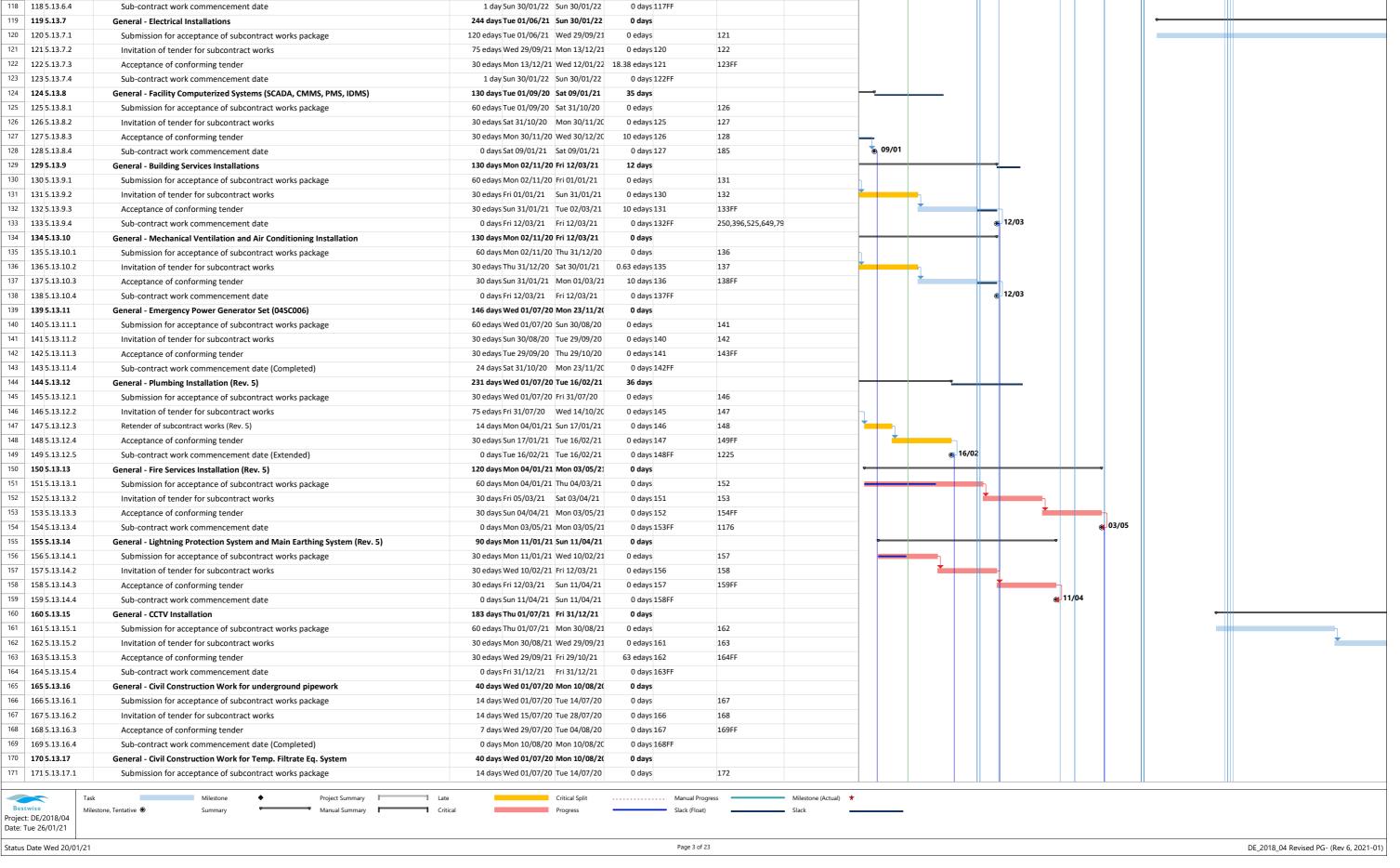
Task Name

Submission for acceptance of subcontract works package

Invitation of tender for subcontract works

Acceptance of conforming tender

Proposed Work Programme for DE/2018/04 AECOM 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 120 days Tue 01/06/21 Tue 28/09/21 0 days 116 75 days Wed 29/09/21 Sun 12/12/21 0 days 115 117 30 days Mon 13/12/21 Tue 11/01/22 19 days 116 118FF 1 day Sun 30/01/22 Sun 30/01/22 0 days 117FF 244 days Tue 01/06/21 Sun 30/01/22 0 days 120 edays Tue 01/06/21 Wed 29/09/21 121 0 edays 75 edays Wed 29/09/21 Mon 13/12/21 122 0 edays 120 30 edays Mon 13/12/21 Wed 12/01/22 18.38 edays 121 123FF 1 day Sun 30/01/22 Sun 30/01/22 0 days 122FF 130 days Tue 01/09/20 Sat 09/01/21 60 edays Tue 01/09/20 Sat 31/10/20 0 edays 126 30 edays Sat 31/10/20 Mon 30/11/20 127 0 edays 125 30 edays Mon 30/11/20 Wed 30/12/20 128 10 edays 126 **6** 09/01 185 0 days Sat 09/01/21 Sat 09/01/21 0 days 127 130 days Mon 02/11/20 Fri 12/03/21 12 days 60 edays Mon 02/11/20 Fri 01/01/21 131 0 edays 132 30 edays Fri 01/01/21 Sun 31/01/21 0 edays 130 30 edays Sun 31/01/21 Tue 02/03/21 10 edays 131 133FF 0 days Fri 12/03/21 Fri 12/03/21 0 days 132FF 250,396,525,649,79 **a** 12/03 130 days Mon 02/11/20 Fri 12/03/21 0 days 60 days Mon 02/11/20 Thu 31/12/20 0 davs 136 30 edays Thu 31/12/20 Sat 30/01/21 0.63 edays 135 137 30 days Sun 31/01/21 Mon 01/03/21 138FF 10 days 136 0 days Fri 12/03/21 Fri 12/03/21 0 days 137FF 12/03 146 days Wed 01/07/20 Mon 23/11/20 0 days 60 edays Wed 01/07/20 Sun 30/08/20 0 edays 141 30 edays Sun 30/08/20 Tue 29/09/20 0 edays 140 142 30 edays Tue 29/09/20 Thu 29/10/20 0 edays 141 143FF 24 days Sat 31/10/20 Mon 23/11/20 0 days 142FF 231 days Wed 01/07/20 Tue 16/02/21 36 days 30 edays Wed 01/07/20 Fri 31/07/20 0 edays 146 75 edays Fri 31/07/20 Wed 14/10/20 147 0 edays 145 14 days Mon 04/01/21 Sun 17/01/21 148 0 days 146 30 edays Sun 17/01/21 Tue 16/02/21 0 edays 147 149FF **@** 16/02 0 days Tue 16/02/21 Tue 16/02/21 0 days 148FF 1225 120 days Mon 04/01/21 Mon 03/05/21 0 days 60 days Mon 04/01/21 Thu 04/03/21 0 days 152 30 days Fri 05/03/21 Sat 03/04/21 153 0 days 151 30 days Sun 04/04/21 Mon 03/05/21 154F 0 days 152 03/05 0 days Mon 03/05/21 Mon 03/05/21 0 days 153FF 1176 90 days Mon 11/01/21 Sun 11/04/21 0 days 30 edays Mon 11/01/21 Wed 10/02/21 157 0 edays 30 edays Wed 10/02/21 Fri 12/03/21 0 edays 156 158 30 edays Fri 12/03/21 Sun 11/04/21 159FF 0 edays 157 0 days Sun 11/04/21 Sun 11/04/21 0 days 158FF 183 days Thu 01/07/21 Fri 31/12/21 0 days 60 edays Thu 01/07/21 Mon 30/08/21 162 0 edays 30 edays Mon 30/08/21 Wed 29/09/21 163 164FF 30 edays Wed 29/09/21 Fri 29/10/21 63 edays 162 0 days Fri 31/12/21 Fri 31/12/21 0 days 163FF 40 days Wed 01/07/20 Mon 10/08/20 0 davs 14 days Wed 01/07/20 Tue 14/07/20 0 days 167 14 days Wed 15/07/20 Tue 28/07/20 0 days 166 168 7 days Wed 29/07/20 Tue 04/08/20 0 days 167 169F 0 days Mon 10/08/20 Mon 10/08/20 0 days 168FF



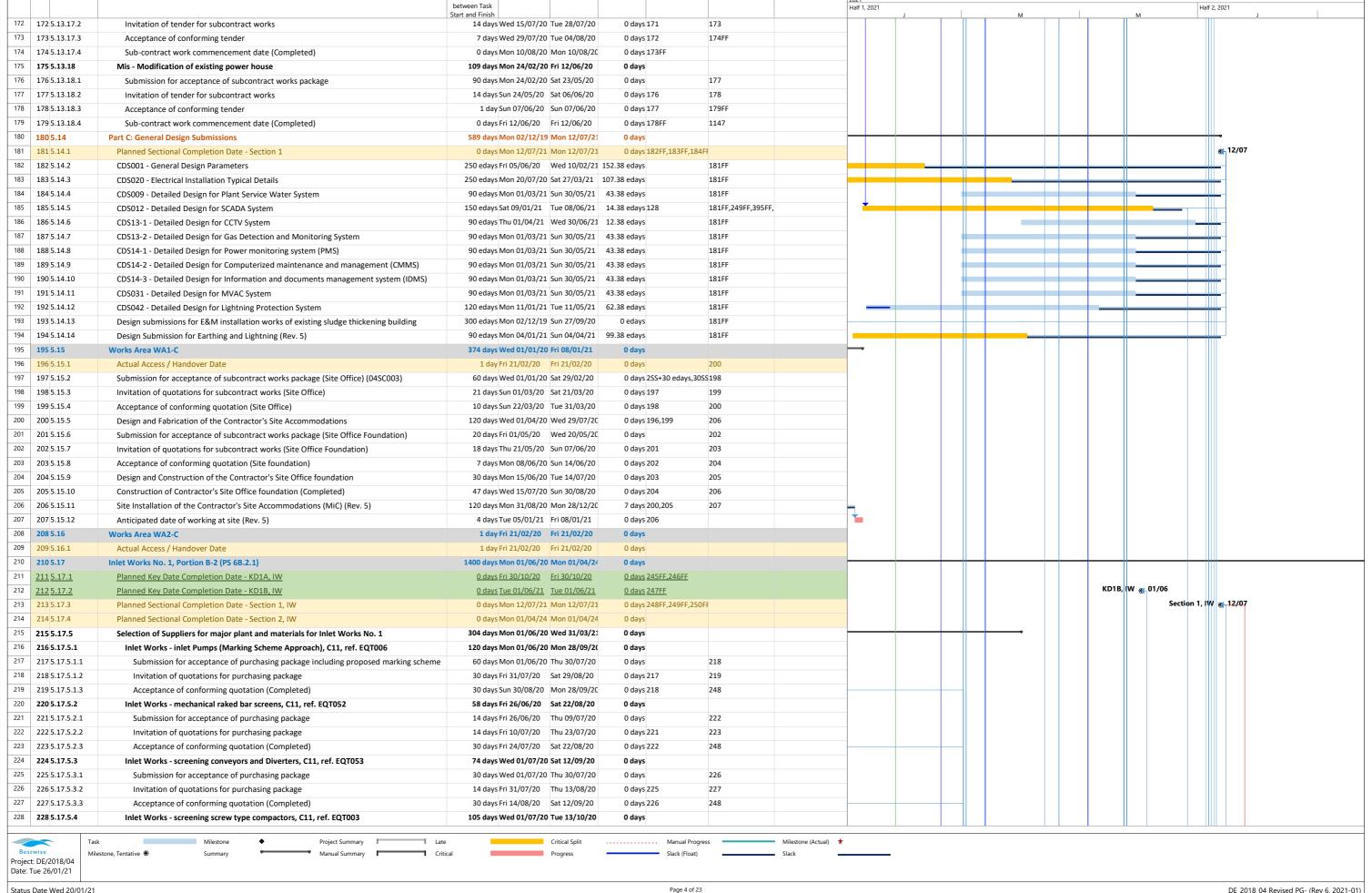
Drainage Services Department

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



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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Drainage Services Department

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Task Name

IV Switchhoards

PLC System

IW - Manufacturing of Plant

IW - Manufacturing of Plant

HV Switchboards, EQT031

IW - Shipping and Delivery of Plant to site

IW - Shipping and Delivery of Plant to site

IW - Shipping and Delivery of Plant to site

11kV/380V Stepdown Power Transformers, EQT032

IW - Factory Acceptance Test of Plant (to be witnessed by PM)

IW - Factory Acceptance Test of Plant (to be witnessed by PM)

IW - Manufacturing and Factory Acceptance Test of Plant

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 rt and Finish 490 days Thu 08/07/21 Wed 09/11/22 153 days 240 days Thu 08/07/21 Fri 04/03/22 0 days 249,251,74SS-90 e 288 60 days Sat 05/03/22 Tue 03/05/22 145 days 287 45 days Mon 26/09/22 Wed 09/11/22 60 days 305SS-60 edays,28334 510 days Fri 18/06/21 Wed 09/11/22 153 days 240 days Fri 18/06/21 Sat 12/02/22 292 0 days 252 90 days Sun 13/02/22 Fri 13/05/22 293 135 days 291 45 days Mon 26/09/22 Wed 09/11/22 60 days 292,305SS-60 eday335 490 days Thu 08/07/21 Wed 09/11/22 153 days 56,60 240 days Thu 08/07/21 Fri 04/03/22 296 45 days Mon 26/09/22 Wed 09/11/22 60 days 295,305SS-60 eday336 505 days Thu 08/07/21 Thu 24/11/22 153 days 300 days Thu 08/07/21 Tue 03/05/22 0 days 249 299 60 days Wed 04/05/22 Sat 02/07/22 300 85 days 298 60 days Mon 26/09/22 Thu 24/11/22 45 days 305SS-60 edays,29 337 489 days Sat 24/07/21 Thu 24/11/22 270 days 240 days Sat 24/07/21 Sun 20/03/22 204 days 248 45 days Tue 11/10/22 Thu 24/11/22 143 days 302,305SS-45 eday320 440 days Fri 25/11/22 Wed 07/02/24 0 davs 309.307.348FS+120 1 day Fri 25/11/22 Fri 25/11/22 0 days 1 day Tue 14/02/23 Tue 14/02/23 113 days 340FF+30 days 439 days Sat 26/11/22 Wed 07/02/24 30 days Sat 26/11/22 Sun 25/12/22 142 days Sat 26/11/22 Sun 16/04/23 0 days 305,285 318SS+30 days,322, 317 45 days Tue 10/01/23 Thu 23/02/23 45 days 313,314 LA - A x 4~6 men 45 days Tue 10/01/23 Thu 23/02/23 45 days 313.314 317 LA - B x 4~6 men 45 days Tue 10/01/23 Thu 23/02/23 0 days 313,314 315,317 LA - C x 4~6 men 45 days Sat 26/11/22 Mon 09/01/23 0 days 310,311,312,317 LA - A x 4~6 men 45 days Sat 26/11/22 Mon 09/01/23 310,311,312,317 LA - B x 4~6 men 0 days 45 days Fri 24/02/23 Sun 09/04/23 0 days 312 317 LA - C x 4~6 men 14 days Sat 26/11/22 Fri 09/12/22 317 121 days 7 days Mon 10/04/23 Sun 16/04/23 0 days 310.311.312.313.3320 LA - B x 4~6 men 250 days Mon 26/12/22 Fri 01/09/23 0 days 309SS+30 days 33355+14 days 345 120 days Mon 26/12/22 Mon 24/04/23 0 days 265,259,279 328,329,332 ME - E x 4~6 men 7 days Mon 17/04/23 Sun 23/04/23 0 days 317,303 324 ME - D x 2~4 mer 90 days Mon 26/12/22 Sat 25/03/23 22 days 261 322 ME - A x 4~6 men 30 days Mon 17/04/23 Tue 16/05/23 0 days 309,321,264 327 ME - A x 4~6 men 21 days Sat 08/07/23 Fri 28/07/23 0 days 309.328SS+14 days 325 ME - B x 4~6 men 75 days Mon 24/04/23 Fri 07/07/23 0 days 320,261 323 ME - B x 4~6 men 14 days Sat 29/07/23 Fri 11/08/23 0 days 323,270 326 ME - B x 4~6 men 21 days Sat 12/08/23 Fri 01/09/23 127 days 325,273 ME - B x 4~6 men 21 days Wed 17/05/23 Tue 06/06/23 214 days 322,267 ME - A x 4~6 mer 30 days Tue 25/04/23 Wed 24/05/23 0 days 319,276,282 323SS+14 days,330 ME - D x 2~4 men 323SS+14 days,330 ME - D x 2~4 men 30 days Tue 25/04/23 Wed 24/05/23 0 days 319 90 days Thu 25/05/23 Tue 22/08/23 137 days 328.329.52 ME - A x 4~6 men 180 days Mon 26/12/22 Fri 23/06/23 197 days ME - D x 2~4 men 120 days Tue 25/04/23 Tue 22/08/23 ME - D x 2~4 men 137 days 319 300 days Mon 09/01/23 Sat 04/11/23 58 days 318SS+14 days 345 60 days Mon 09/01/23 Thu 09/03/23 30 days 289 339 LV - A x 4~6 men 60 days Mon 09/01/23 Thu 09/03/23 339 LV - A x 4~6 men 30 days 293 339 60 days Mon 09/01/23 Thu 09/03/23 30 days 296 EE - A x 4~6 men 45 days Mon 09/01/23 Wed 22/02/23 45 days 300 339 EE - B x 4~6 men 90 days Mon 09/01/23 Sat 08/04/23 0 days 318SS 339 EE - C x 4~6 men 90 days Sun 09/04/23 Fri 07/07/23 0 days 334,336,337,338,3340,343,341 EE - C x 4~6 men 0 days Fri 07/07/23 Fri 07/07/23 178 days 339,306FF+30 day:345 LV - A x 4~6 men

298 298 5.17.7.14.1 Manufacturing of Plant, PLC for IW 299 299 5.17.7.14.2 Factory Acceptance Test of Plant, PLC for IW (To be witnessed by PM) 300 300 5.17.7.14.3 Shipping and Delivery of Plant to site 301 301 5.17.7.15 Fixed Bar Screen, EQT046 302 302 5.17.7.15.1 IW - Manufacturing and Factory Acceptance Test of Plant 303 303 5.17.7.15.2 IW - Shipping and Delivery of Plant to site 304 304 5.17.8 Site Installation Work 305 305 5.17.8.1 Tentative Civil Handover Date, Portion B-2, Inlet Works No. 1 (Rev. 5) 306 306 5 17 8 2 Tentative Civil Handover Date, HV cables draw pits from MFB2 to IW 307 307 5.17.8.3 Commencement of E&M Installation at Inlet Works No. 1 308 308 5.17.8.3.1 Provision of Temporary Water Supply, Electricity Supply, Lighting, Welfare facilities etc., 309 309 5.17.8.3.2 Installation of Lifting Appliances at Inlet Works No. 1 310 310 5.17.8.3.2.1 1/F EOT Crane LA-01-01 SWL 51 311 311 5.17.8.3.2.2 1/F EOT Crane LA-01-02 SWL 51 312 312 5.17.8.3.2.3 1/F EOT Crane LA-01-03 SWL 51 313 313 5.17.8.3.2.4 UG EOT Crane LA-01-04 SWL 10t 314 314 5.17.8.3.2.5 UG EOT Crane LA-01-05 SWL 10t 315 315 5.17.8.3.2.6 1/F Retractable Crane LA-01-06 SWL 10t 316 5.17.8.3.2.7 Submission of T&C Plan and Procedures of LA for acceptance 317 317 5.17.8.3.2.8 T&C. Loading Test for Lifting Appliances 318 318 5.17.8.3.3 Mechanical Installations for Inlet Works No. 1 319 319 5.17.8.3.3.1 Installation of penstocks and stoplogs (Penstock 35nos, Stoplogs 37 nos), EQT013 320 320 5.17.8.3.3.2 Installation of fixed bar screen (x1), EQT046 321 321 5.17.8.3.3.3 Installation of mechanical raked coarse bar screens (x4), EQT052 322 322 5.17.8.3.3.4 Installation of screening conveyors (x6), EQT053 323 323 5.17.8.3.3.5 Installation of inlet pumps (x5), EQT006 324 324 5.17.8.3.3.6 Installation of mechanical raked fine bar screens (x4), EQT052 325 325 5.17.8.3.3.7 Installation of grit removal system (x3), EQT004 326 326 5.17.8.3.3.8 Installation of grit classifiers (x2), EQT005 327 327 5.17.8.3.3.9 Installation of compactors (x2), EQT003 328 328 5.17.8.3.3.10 Installation of pipework and valves, EQT036 329 329 5.17.8.3.3.11 Pipework pressure tests 330 330 5.17.8.3.3.12 Installation of instrumentations, EQT035-1 331 Installation of Platforms, Covers etc, EQT050 331 5.17.8.3.3.13 332 332 5.17.8.3.3.14 Site Acceptance Tests - mechanical aspects including alignment and levels checks, leal 333 333 5.17.8.3.4 Electrical Installations for Inlet Works No. 1 334 334 5.17.8.3.4.1 Installation of LV Switchboards, IW 335 335 5.17.8.3.4.2 Installation of HV Switchboards, IW 336 336 5.17.8.3.4.3 Installation of Transformer, IW, EOT032 337 337 5.17.8.3.4.4 Installation of PLC Panels, IW 338 338 5.17.8.3.4.5 Installation of cable trays and cable containments 339 339 5.17.8.3.4.6 Cables laying and terminations 340 340 5.17.8.3.4.7 Energisation of LV Switchboards, IW 341 341 5.17.8.3.4.8 120 days Sat 08/07/23 Sat 04/11/23 LV - A x 4~6 men Site Acceptance Tests - Electrical aspects including voltage and current tests, equipme 63 days 339 342 **342 5.17.8.3.5** 105 days Sat 08/07/23 Fri 20/10/23 SCADA Systems. Inlet Works 78 days Milestone Project Summary □ Late Critical Split Manual Progress Milestone (Actual) Project: DE/2018/04 Date: Tue 26/01/21 Page 6 of 23 DE\_2018\_04 Revised PG- (Rev 6, 2021-01) 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



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

Resource Names

Float Time Predecessors Successors

Duration Start

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	) WBS II	ssk Name	Duration Start Finish between Task	Float Time Predecessors	Successors	Resource Names	2021 Half 1, 2021				Half
	400 5.18.7.1	Lamella Plate Settlers, EQT014	Start and Finish 672 days Thu 27/05/21 Wed 29/03	/2: 193 days			J	M		M	
	1 5.18.7.1.1	1 1			402		_				
		Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site	300 days Thu 27/05/21 Tue 22/03/2				_		"		
	5.18.7.1.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/ 672 days Thu 27/05/21 Wed 29/03/		ay+JJ		_				
	<b>3 5.18.7.2</b> 4 5.18.7.2.1	Reciprocating Type Bottom Scrappers, EQT014	300 days Thu 27/05/21 Wed 29/03/	-	405		_			<u> </u>	
		Manufacturing and Factory Acceptance Test of Plant					_				
	05 5.18.7.2.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/		dy454		_				
	6 5.18.7.3	Surface Scum Skimmers, EQT015	672 days Thu 27/05/21 Wed 29/03								
	7 5.18.7.3.1	Manufacturing and Factory Acceptance Test of Plant	300 days Thu 27/05/21 Tue 22/03/2		408						
	08 5.18.7.3.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/	23 203 days 407,439SS-60 ed	ay455						
4	09 5.18.7.4	Surface Scum Collection Pipes, EQT015	672 days Thu 27/05/21 Wed 29/03	/2: 253 days					•		
4:	10 5.18.7.4.1	Manufacturing and Factory Acceptance Test of Plant	300 days Thu 27/05/21 Tue 22/03/2	22 327 days 394	411				7		
i	411 5.18.7.4.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/	23 203 days 410,439SS-60 ed	ay456						
4	412 5.18.7.5	Piston Type Primary Sludge Pumps, EQT016	672 days Thu 27/05/21 Wed 29/03	/2: 133 days						-	
4	13 5.18.7.5.1	Manufacturing and Factory Acceptance Test of Plant	300 days Thu 27/05/21 Tue 22/03/2	327 days 394	414				7	<b>†</b>	
4	114 5.18.7.5.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/	23 106 days 413,439SS-60 ed	ay457						
4	15 5.18.7.6	Drain Pumps, EQT007	672 days Thu 27/05/21 Wed 29/03	/2: 163 days							
	16 5.18.7.6.1	Manufacturing and Factory Acceptance Test of Plant	300 days Thu 27/05/21 Tue 22/03/2		417		- $ $ $ $ $ $				
	17 5.18.7.6.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/				- $ $ $ $ $ $				
	118 5.18.7.7	Air Blower, EQT018	672 days Thu 27/05/21 Wed 29/03/		-,		$ \parallel$ $\parallel$				
		1 1			420		_			<u> </u>	
	419 5.18.7.7.1	Manufacturing and Factory Acceptance Test of Plant	300 days Thu 27/05/21 Tue 22/03/2				_		"		
	420 5.18.7.7.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/		ay459		_				
	421 5.18.7.8	Stoplogs and Penstocks, EQT013	672 days Thu 27/05/21 Wed 29/03				_			ļ <u> </u>	
	122 5.18.7.8.1	Manufacturing and Factory Acceptance Test of Plant	240 days Thu 27/05/21 Fri 21/01/2		423						
	123 5.18.7.8.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/		12 451						
4	124 5.18.7.9	Valves, EQT036	672 days Thu 27/05/21 Wed 29/03	/2: 43 days							
1	425 5.18.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days Thu 27/05/21 Fri 21/01/2	2 387 days 394	426				7	Y	
4	426 5.18.7.9.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/	23 16 days 425,439SS-60 ed	ay452						
4	27 5.18.7.10	Lifting Appliances	790 days Fri 29/01/21 Wed 29/03	/2: 66 days			0		+		
4	428 5.18.7.10.1	Manufacturing and Factory Acceptance Test of Plant	210 days Fri 29/01/21 Thu 26/08/2	21 535 days 398	429		<b>*</b>		$\rightarrow$		
4	29 5.18.7.10.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/	'23 16 days 428,439SS-60 ed	ay442						
43	30 5.18.7.11	LV Switchboards	635 days Sat 03/07/21 Wed 29/03	/2: 53 days							-
43	15.18.7.11.1	PST - Manufacturing of Plant	300 days Sat 03/07/21 Thu 28/04/2		432						<b>+</b>
	32 5.18.7.11.2	PST - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days Fri 29/04/22 Wed 27/07/		433						
	33 5.18.7.11.3	PST - Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/				_				
	34 5.18.7.12	PLC System	645 days Wed 23/06/21 Wed 29/03				$\dashv$			•	
	35 5.18.7.12.1	Manufacturing of Plant, PLC for PST	300 days Wed 23/06/21 Mon 18/04/		436		- $ $ $ $			•	
	36 5.18.7.12.2	Factory Acceptance Test of Plant, PLC for PST (To be witnessed by PM)	60 days Tue 19/04/22 Fri 17/06/2		437		_				
							_				
	37 5.18.7.12.3	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 Wed 29/03/		ay403		_				
	38 5.18.8	Site Installation Work	298 days Fri 14/04/23 Mon 05/02		440 47756 55 5		_				
	39 5.18.8.1	Tentative Civil Handover Date, Portion B-3, PST No. 1~4 (Rev. 5)	1 day Fri 14/04/23 Fri 14/04/23		442,477FS+90 day						
	140 5.18.8.2	Commencement of E&M Installation at PST No. 1~4	297 days Sat 15/04/23 Mon 05/02			403					
	141 5.18.8.2.1	Provision of Temporary Water Supply, Electricity Supply, Lighting Welfare facilities etc.,	30 days Sat 15/04/23 Sun 14/05/2								
•	442 5.18.8.2.2	Installation of Lifting Appliances at PST No. 1~4	127 days Sat 15/04/23 Sat 19/08/2	3 50 days 439,429							
4	143 5.18.8.2.2.1	Basement EOT Crane LA-02-01 SWL 10t	30 days Sat 15/04/23 Sun 14/05/2	23 0 days	444,445,449	LA - A x 4~6 men					
Δ	444 5.18.8.2.2.2	Coping Level EOT Crane LA-02-02 SWL 5t	30 days Mon 15/05/23 Tue 13/06/2	23 60 days 443	449	LA - A x 4~6 men					
,	445 5.18.8.2.2.3	Coping Level EOT Crane LA-02-03 SWL 5t	30 days Mon 15/05/23 Tue 13/06/2	0 days 443	446,447,449	LA - B x 4~6 men					
	446 5.18.8.2.2.4	Coping Level EOT Crane LA-02-04 SWL 5t	30 days Wed 14/06/23 Thu 13/07/2	30 days 445	449	LA - A x 4~6 men					
4	147 5.18.8.2.2.5	Coping Level EOT Crane LA-02-05 SWL 5t	30 days Wed 14/06/23 Thu 13/07/2	23 0 days 445	448,449	LA - B x 4~6 men					
	148 5.18.8.2.2.6	Coping Level EOT Crane LA-02-06 SWL 2t	30 days Fri 14/07/23 Sat 12/08/2		449	LA - A x 4~6 men					
	149 5.18.8.2.2.7	T&C, Loading Test for Lifting Appliances at PST No. 1~4	7 days Sun 13/08/23 Sat 19/08/2			LA - A x 4~6 men	-				
	150 5.18.8.2.3	Mechanical Installations at PST No. 1~4	240 days Sat 15/04/23 Sun 10/12/		474	3	- $ $ $ $				
					457,462	ME - E x 4~6 men	_				
	451 5.18.8.2.3.1	Installation of penstocks and stoplogs (Penstock 18nos, Stoplogs 14 nos), EQT013	90 days Sat 15/04/23 Thu 13/07/2		437,402		_				
	152 5.18.8.2.3.2	Installation of pipework and valves, EQT036	240 days Sat 15/04/23 Sun 10/12/2		455 450	ME - B x 4~6 men	_				
	453 5.18.8.2.3.3	Installation of lamella plate settlers (x4), EQT014	60 days Sun 20/08/23 Wed 18/10/		455,456	ME - A x 4~6 men					
	454 5.18.8.2.3.4	Installation of reciprocating type bottom scrapers (x4), EQT014	30 days Sat 15/04/23 Sun 14/05/2		453	ME - A x 4~6 men					
	455 5.18.8.2.3.5	Installation of surface scum skimmers (x1), EQT015	30 days Thu 19/10/23 Fri 17/11/2	3 50 days 453,408		ME - A x 4~6 men					
	456 5.18.8.2.3.6	Installation of scum collector pipes (x1), EQT015	30 days Thu 19/10/23 Fri 17/11/2	3 50 days 453,411		ME - B x 4~6 men					

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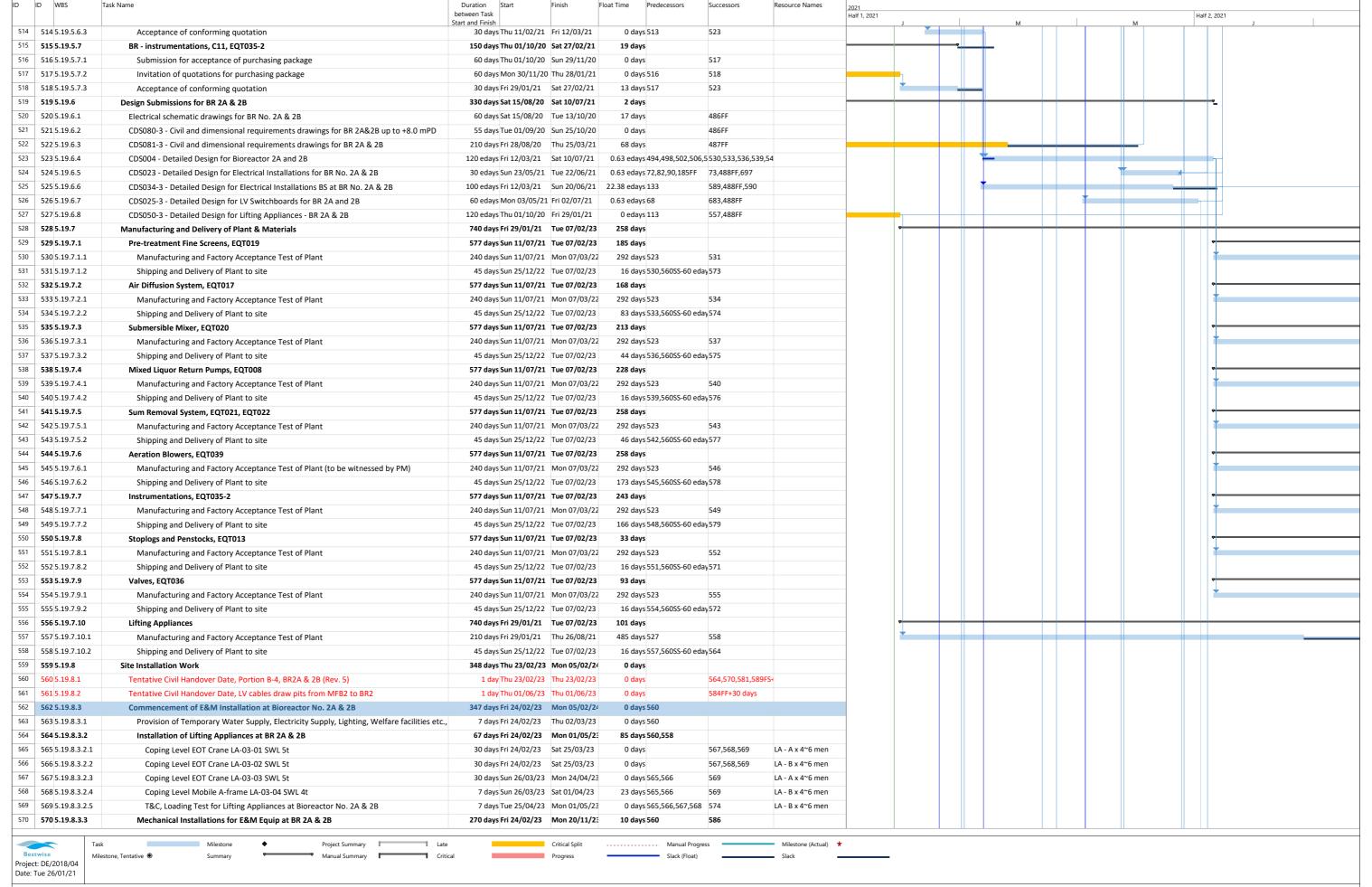
Proposed Work Programme for DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

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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 Status Date Wed 20/01/21 Page 9 of 23 DE\_2018\_04 Revised PG- (Rev 6, 2021-01) Drainage Services Department
The Government of the Hong Koop 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

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Proposed Work Programme for DE/2018/04

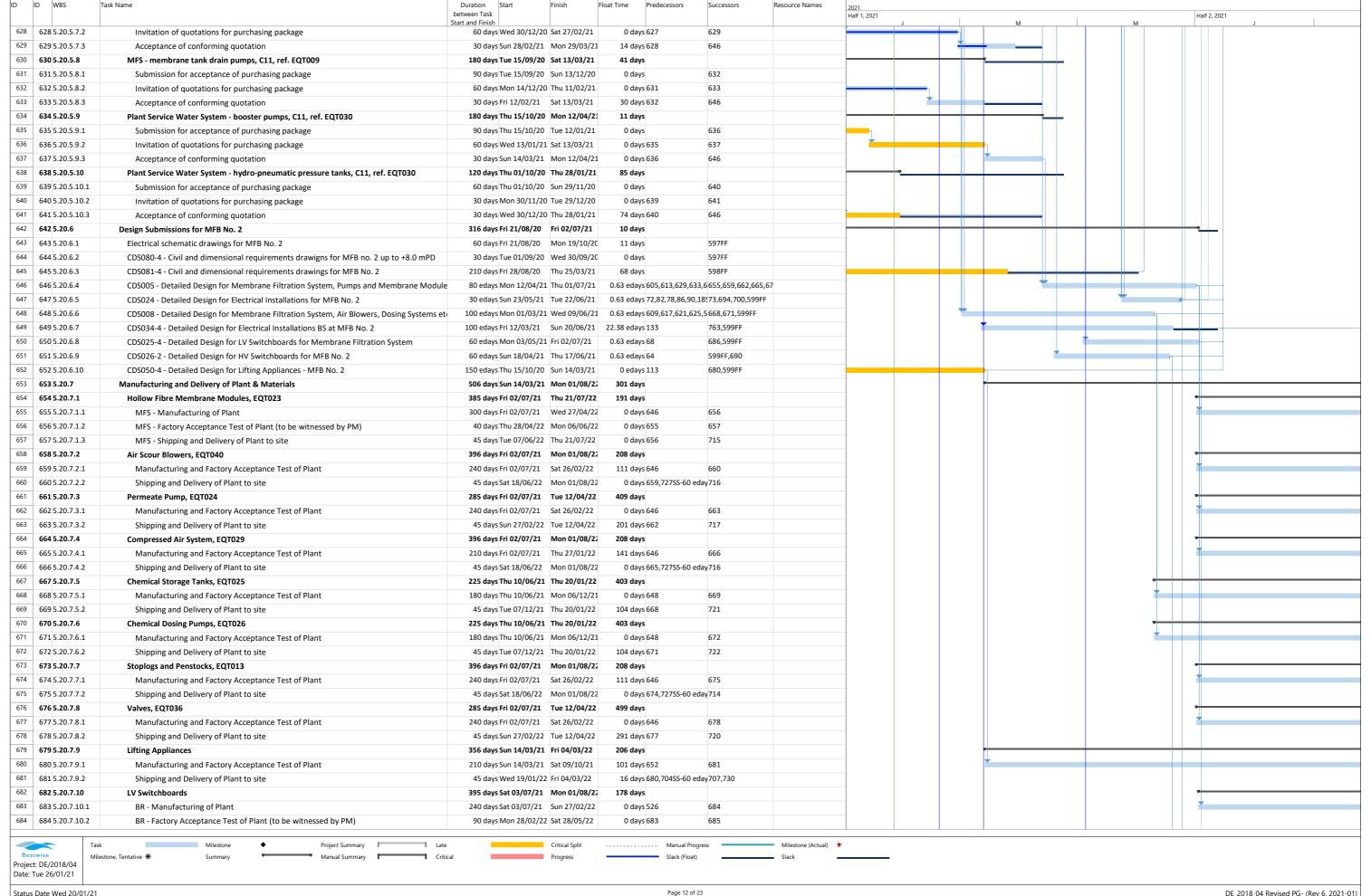
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities

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



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 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 Status Date Wed 20/01/21

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

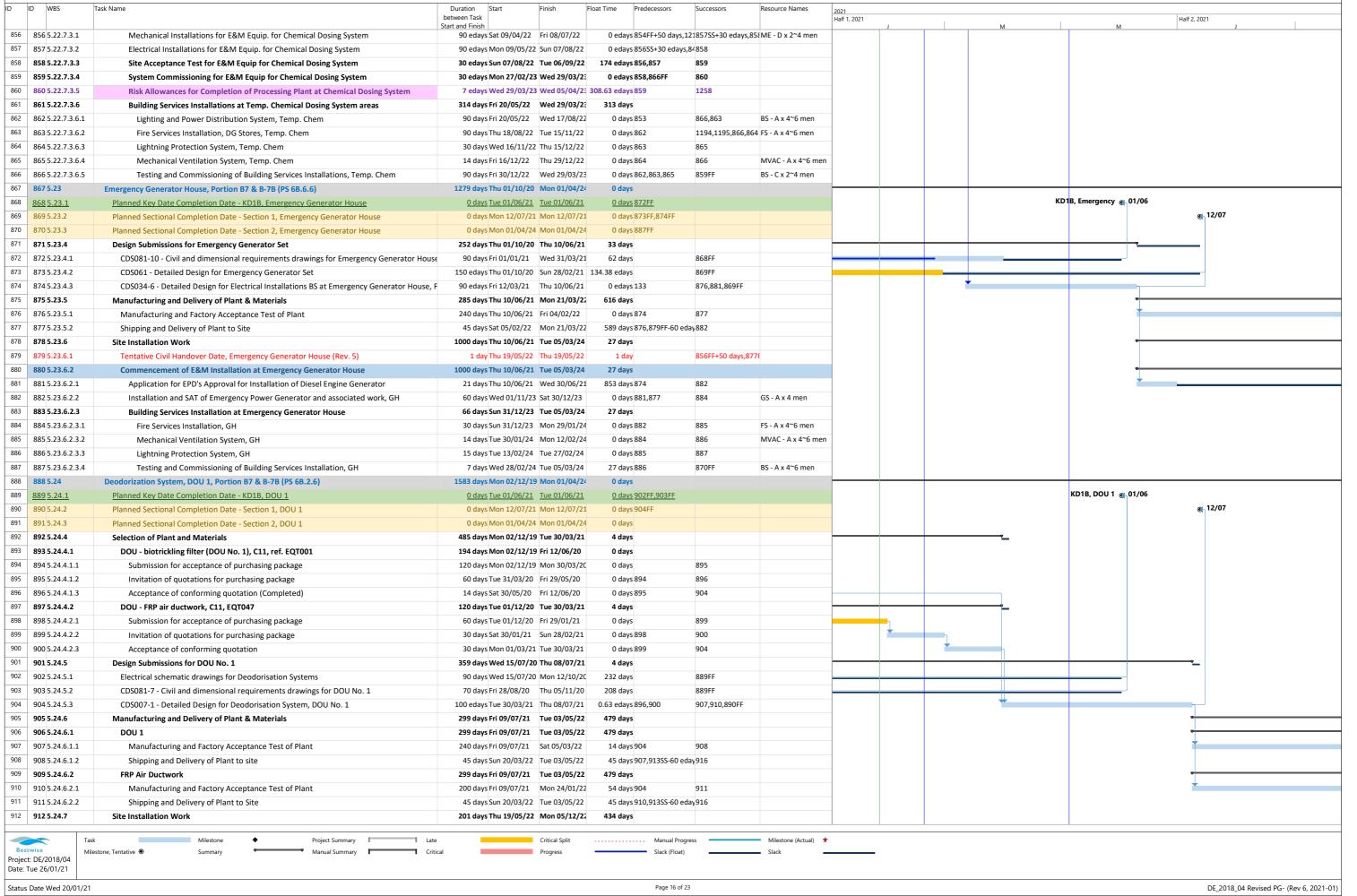
Proposed Work Programme for DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities **A**ECOM

800 5.21.6.2.1 Manuf 801 5.21.6.2.2 Shippi 802 5.21.6.3 Chemica 803 5.21.6.3.1 Manuf 804 5.21.6.3.2 Shippi 805 5.21.7 Site Install 806 5.21.7.1 Tentative 807 5.21.7.2 Tentative 808 5.21.7.3 Commer 809 5.21.7.3.1 Mecha 810 5.21.7.3.2 Electri 811 5.21.7.3.3 Site Ac 812 5.21.7.3.4 System 813 5.21.7.3.6 Buildin 815 5.21.7.3.6 Buildin 815 5.21.7.3.6.1 Ligh 816 5.21.7.3.6.2 Fire 817 5.21.7.3.6.3 Ligh 818 5.21.7.3.6.4 Mecha 819 5.21.7.3.6.5 Plur 820 5.21.7.3.6.6 Test 821 5.22 Temporary C 822 5.22.1 Planned Ke 823 5.22.2 Planned Se 824 5.22.3 Planned Se 825 5.22.4 Selection of 826 5.22.4.1 Chemica 827 5.22.4.1.1 Submi 828 5.22.4.2 Invitat 829 5.22.4.2 Chemica 830 5.22.4.2 Chemica	al Dosing Pumps, EQT027  ufacturing and Factory Acceptance Test of Plant bing and Delivery of Plant to site al Transfer Pumps, EQT026  ufacturing and Factory Acceptance Test of Plant bing and Delivery of Plant to site  Ulation Work  ve Civil Handover Date, Portion B-7 & B-7B (Rev. 5)  ve Civil Handover Date, Chemical Pipe Trench (by others)  ve Civil Handover Date, Chemical Pipe Trench (by others)  ve Civil Handover Date, Chemical Pipe Trench (by others)  ve Civil Handover Date, Chemical Dosing System 1 and System 2  vertical Installations for E&M Equip. for Chemical Dosing System  vertical Installations for E&M Equip. for Chemical Dosing System  vertical Installations for E&M Equip for Chemical Dosing System  vertical Installations for E&M Equip for Chemical Dosing System  vertical Installations at Chemical Dosing System  vertical Installations for E&M Equip for Chemical Dosing System  vertical Installations of Processing Plant at Chemical Dosing System  vertical Installations of Dosing System areas  hting Services Installations at Chemical Dosing System areas  hting and Power Distribution System, Chem 1&2  vertical Installation, DG Stores  htming Protection System, Chem 1&2  vertical Installation, Chem 1  vertical Installation, Chem 1  vertical Installation, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations, Chem 1  vertical Installations of Plant at Chemical Installations, Chem 1  vertical Installations of Plant at Chemical Installations of Plant at Chemical Installations of Plant at Chemical Installations of Plant at Chemical Installation of Plant at Chemical Installation of Plant at Chemical Installation of Plant at Chemical Installation of Plant at Chemical Installation of Plant	Duration between Task Start and Finish 296 days Sat 29/05/21 180 days Sat 29/05/21 45 days Fri 04/02/22 296 days Sat 29/05/21 180 days Sat 29/05/21 45 days Fri 04/02/22 307 days Tue 22/03/22 1 day Thu 19/05/22 1 day Sun 01/05/22 307 days Tue 22/03/22 90 edays Mon 20/06/22 45 days Mon 19/09/22 45 days Mon 19/09/22 45 days Fri 20/05/22 120 days Fri 20/05/22 120 days Fri 20/05/22 30 days Fri 20/05/22 30 days Fri 20/05/22 30 days Fri 20/05/22 30 days Fri 20/05/22 30 days Fri 20/05/22	Sun 20/03/22 Wed 24/11/21 Sun 20/03/22 Sun 20/03/22 Wed 24/11/21 Sun 20/03/22 Mon 23/01/2: Thu 19/05/22 Sun 01/05/22 Mon 23/01/2: Mon 20/06/22 Sun 18/09/22 Wed 02/11/22 Sat 17/12/22 Sat 24/12/22	417 days 71 days 791 2 days 800,806FF-60 eday 417 days 71 days 791 2 days 803,806FF-60 eday 415 days 0 days 33 days 415 days 0 edays 807FF+50 days,804 0.63 edays 809,792,793,794 0 days 810	801 y809 804 y809 804FF-60 edays,803 809FF+50 days	Resource Names  ME - D x 2~4 men	2021 Half 1, 2021	J	М	M	Half 2, 2021
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815 5.21.7.3.6.1 Ligh 816 5.21.7.3.6.2 Fire 817 5.21.7.3.6.3 Ligh 818 5.21.7.3.6.4 Med 819 5.21.7.3.6.5 Plur 820 5.21.7.3.6.6 Test 821 5.22 Temporary C 822 5.22.1 Planned Ke 823 5.22.2 Planned Se 824 5.22.3 Planned Se 825 5.22.4 Selection of 826 5.22.4.1 Chemica 827 5.22.4.1.1 Submi 828 5.22.4.1.2 Invitat 829 5.22.4.1.3 Accept 830 5.22.4.2 Chemica 831 5.22.4.2.1 Submi	hting and Power Distribution System, Chem 1&2 e Services Installation, DG Stores htning Protection System, Chem 1&2 echanical Ventilation System, Chem 2 umbing Installation, Chem 1	120 days Fri 20/05/22 120 days Fri 20/05/22	Man 22 /01 /21	410.63 edays 812	1258						
815 5.21.7.3.6.1 Ligh 816 5.21.7.3.6.2 Fire 817 5.21.7.3.6.3 Ligh 818 5.21.7.3.6.4 Med 819 5.21.7.3.6.5 Plur 820 5.21.7.3.6.6 Test 821 5.22 Temporary C 822 5.22.1 Planned Se 823 5.22.2 Planned Se 824 5.22.3 Planned Se 825 5.22.4 Selection of 826 5.22.4.1 Chemica 827 5.22.4.1.1 Submi 828 5.22.4.1.2 Invitat 829 5.22.4.1.3 Accept 830 5.22.4.2 Chemica 831 5.22.4.2.1 Submi	hting and Power Distribution System, Chem 1&2 e Services Installation, DG Stores htning Protection System, Chem 1&2 echanical Ventilation System, Chem 2 umbing Installation, Chem 1	120 days Fri 20/05/22	ivion 23/01/23	419 days							
816 5.21.7.3.6.2 Fire 817 5.21.7.3.6.3 Ligh 818 5.21.7.3.6.4 Med 819 5.21.7.3.6.5 Plur 820 5.21.7.3.6.6 Test 821 5.22 Temporary C 822 5.22.1 Planned Se 824 5.22.3 Planned Se 825 5.22.4 Selection of 826 5.22.4.1 Chemica 827 5.22.4.1 Submi 828 5.22.4.1.2 Invitat 829 5.22.4.1.3 Accept 830 5.22.4.2 Chemica 831 5.22.4.2.1 Submi	e Services Installation, DG Stores htning Protection System, Chem 1&2 echanical Ventilation System, Chem 2 imbing Installation, Chem 1		Fri 16/09/22	9 days 806	820	BS - B x 4~6 men					
817 5.21.7.3.6.3 Ligh 818 5.21.7.3.6.4 Med 819 5.21.7.3.6.5 Plur 820 5.21.7.3.6.6 Test 821 5.22 Temporary C 822 5.22.1 Planned Se 824 5.22.3 Planned Se 825 5.22.4 Selection of 826 5.22.4.1 Chemica 827 5.22.4.1.1 Submi 828 5.22.4.1.2 Invitat 829 5.22.4.1.3 Accept 830 5.22.4.2 Chemica 831 5.22.4.2.1 Submi	htning Protection System, Chem 1&2 echanical Ventilation System, Chem 2 imbing Installation, Chem 1		Fri 16/09/22		1194,1195,1185,82	(FS - A x 4~6 men					
818 5.21.7.3.6.4 Med 819 5.21.7.3.6.5 Plur 820 5.21.7.3.6.6 Test 821 5.22 Temporary C 822 5.22.1 Planned Ke 823 5.22.2 Planned Se 824 5.22.3 Planned Se 825 5.22.4 Selection of 826 5.22.4.1 Submi 828 5.22.4.1.1 Submi 828 5.22.4.1.2 Invitat 829 5.22.4.1.3 Accept 830 5.22.4.2 Chemica 831 5.22.4.2.1 Submi	echanical Ventilation System, Chem 2 Imbing Installation, Chem 1			99 days 806	820						
819 5.21.7.3.6.5 Plur 820 5.21.7.3.6.6 Test 821 5.22 Temporary C 822 5.22.1 Planned Se 823 5.22.2 Planned Se 824 5.22.3 Planned Se 825 5.22.4 Selection of 826 5.22.4.1 Submi 828 5.22.4.1.1 Submi 828 5.22.4.1.2 Invitat 829 5.22.4.1.3 Accept 830 5.22.4.2 Chemica 831 5.22.4.2.1 Submi	imbing Installation, Chem 1	14 days Fri 20/05/22		•	820	MVAC - A x 4~6 men	-				
820 5.21.7.3.6.6 Test  821 5.22 Temporary C  822 5.22.1 Planned Ke  823 5.22.2 Planned Se  824 5.22.3 Planned Se  825 5.22.4 Selection of  826 5.22.4.1 Chemica  827 5.22.4.1.1 Submi  828 5.22.4.1.2 Invitat  829 5.22.4.1.3 Accept  830 5.22.4.2 Chemica  831 5.22.4.2.1 Submi	•	7 days Mon 19/09/22			820	Pb - A x 4~6 men	-				
821 5.22 Temporary C 822 5.22.1 Planned Ke 823 5.22.2 Planned Se 824 5.22.3 Planned Se 825 5.22.4 Selection of 826 5.22.4.1 Chemica 827 5.22.4.1.1 Submi 828 5.22.4.1.2 Invitat 829 5.22.4.1.3 Accept 830 5.22.4.2 Chemica 831 5.22.4.2.1 Submi		120 days Mon 26/09/22		434 days 815,816,819,818,8		BS - C x 2~4 men	-				
822 5.22.1         Planned Ke           823 5.22.2         Planned Se           824 5.22.3         Planned Se           825 5.22.4         Selection of           826 5.22.4.1         Chemica           827 5.22.4.1.1         Submi           828 5.22.4.1.2         Invitat           829 5.22.4.1.3         Accept           830 5.22.4.2         Chemica           831 5.22.4.2.1         Submi	Chemical Dosing System, Portion B7 & B-7B (PS 6B.2.3)	1344 days Tue 28/07/20		0 days							
823       5.22.2       Planned Se         824       5.22.4       Selection of Sel	(ey Date Completion Date - KD1B, Temp. Chem Dosing Sys	0 days Tue 01/06/21		0 days 839FF,840FF						KD1B, Chemical 6 01/06	
824     5.22.3     Planned Se       825     5.22.4     Selection of Chemical Section of Che	ectional Completion Date - Section 1, Temp. Chem Dosing Sys	0 days Mon 12/07/21		0 days 841FF						9 7 7	<b>©</b> 12/07
825 5.22.4       Selection of	ectional Completion Date - Section 1, Temp. Chem Dosing Sys	0 days Mon 01/04/24		0 days							-
826 5.22.4.1       Chemica         827 5.22.4.1.1       Submi         828 5.22.4.1.2       Invitat         829 5.22.4.1.3       Accept         830 5.22.4.2       Chemica         831 5.22.4.2.1       Submi				668 days							
827 5.22.4.1.1 Submi 828 5.22.4.1.2 Invitat 829 5.22.4.1.3 Accept 830 5.22.4.2 Chemica 831 5.22.4.2.1 Submi	of Suppliers for major plant and materials for Temp. Chemical Dosing System	150 days Thu 01/10/20						<b>-</b>	-		
828       5.22.4.1.2       Invitat         829       5.22.4.1.3       Accept         830       5.22.4.2       Chemica         831       5.22.4.2.1       Submi	al Storage and Dosing - chemical storage tanks, C11, ref. EQT025	120 days Thu 01/10/20		75 days	020						
829 5.22.4.1.3       Accept         830 5.22.4.2       Chemica         831 5.22.4.2.1       Submi	nission for acceptance of purchasing package	60 days Thu 01/10/20			828						
830 5.22.4.2 Chemica 831 5.22.4.2.1 Submi	ation of quotations for purchasing package	30 days Mon 30/11/20			829						
831 5.22.4.2.1 Submi	ptance of conforming quotation	30 days Wed 30/12/20			841,844						
	al Storage and Dosing - chemical dosing pumps, C11, ref. EQT027	150 days Thu 01/10/20		668 days					•		
832 5.22.4.2.2 Invitat	nission for acceptance of purchasing package	60 days Thu 01/10/20			832						
	ation of quotations for purchasing package	60 days Mon 30/11/20	Thu 28/01/21	· l	833			<u>-</u>			
·	otance of conforming quotation	30 days Fri 29/01/21			847						
834 5.22.4.3 Chemica	al Storage and Dosing - transfer pumps, C11, ref. EQT026	120 days Thu 01/10/20	Thu 28/01/21	698 days				-			
835 5.22.4.3.1 Submi	nission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	0 days	836						
836 5.22.4.3.2 Invitat	ation of quotations for purchasing package	30 days Mon 30/11/20	Tue 29/12/20	0 days 835	837						
837 5.22.4.3.3 Accept	ptance of conforming quotation	30 days Wed 30/12/20	Thu 28/01/21	0 days 836	850			<u>-</u>			
838 5.22.5 Design Sub	bmissions for Temporary Chemical Dosing System	275 days Tue 28/07/20	Wed 28/04/21	75 days						<del>-</del>	
839 5.22.5.1 Electrica	al schematic drawings for Temporary Chemical Dosing System	60 days Tue 28/07/20	Fri 25/09/20	249 days	822FF						
840 5.22.5.2 CDS081-	-6 - Civil and dimensional requirements drawings for Temporary Chemical Dosing	S 70 days Fri 28/08/20	Thu 05/11/20	208 days	822FF						
	- Detailed Design for Electrical Installations for Temporary Chemical System	90 edays Thu 28/01/21		75 edays 829	857,823FF		-	+			
	uring and Delivery of Plant & Materials	416 days Fri 29/01/21		507 days			-	•			
	al Storage Tanks, EQT025	416 days Fri 29/01/21		507 days			-	•			
	ufacturing and Factory Acceptance Test of Plant	180 days Fri 29/01/21			845			+			
	oing and Delivery of Plant to site	45 days Fri 04/02/22		20 days 844,853FF-60 eday							
	al Dosing Pumps, EQT027	386 days Sun 28/02/21		507 days			-		•		
	ufacturing and Factory Acceptance Test of Plant	180 days Sun 28/02/21			848		-		<u> </u>		
	<u> </u>	45 days Fri 04/02/22		20 days 847,853FF-60 eday			-				
- 17	oing and Delivery of Plant to site				,030		-				
	al Transfer Pumps, EQT026	416 days Fri 29/01/21		507 days	OE 1		-	1			
	ufacturing and Factory Acceptance Test of Plant	180 days Fri 29/01/21			851						
	oing and Delivery of Plant to site	45 days Fri 04/02/22		20 days 850,853FF-60 eday	у856						
	llation Work	361 days Sat 09/04/22		313 days	-						
	ve Civil Handover Date, Temporary Chemical Dosing (Rev. 5)	1 day Thu 19/05/22		·	845FF-60 edays,848	8					
		1 day Sun 01/05/22			856FF+50 days						
855 5.22.7.3 Commer	ve Civil Handover Date, Chemical Pipe Trench (by others)	361 days Sat 09/04/22	Wed 05/04/2:	313 days							
	ve Civil Handover Date, Chemical Pipe Trench (by others) encement of E&M Installation at Temporary Chemical Dosing System										
Task  Milestone, Tentative	encement of E&M Installation at Temporary Chemical Dosing System	to.	Critical Split								
ect: DE/2018/04	encement of E&M Installation at Temporary Chemical Dosing System  Milestone   Project Summary Lat		-	Manual Progres	ss	■ Milestone (Actual) ★					
:: Tue 26/01/21	encement of E&M Installation at Temporary Chemical Dosing System  Milestone   Project Summary Lat		Progress	Manual Progres Slack (Float)	ss	Milestone (Actual)					

Drainage Services Department

Proposed Work Programme for DE/2018/04

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



Drainage Service	es Department 9 specia distinisativa tegion	Chal Mr. U.: Effl. art B-1	Proposed Work Programme lishing Plant - Main Works Stage		wage Treatment Earli	tios			AECO.
ID WBS	Task Name		Float Time Predecessors	Successors	Resource Names	2021 Half 1, 2021		Half 2, 20	
913 5.24.7.1	Tentative Civil Handover, DOU 1 (Rev. 5)	Start and Finish 1 day Thu 19/05/22 Thu 19/05/22	0 days	916FF+45 days,90	24	J	M	M M	
914 5.24.7.2	Tentative Civil Handover Date, underground air pipework for DOU 1 (by others)	1 day Mon 01/08/22 Mon 01/08/22	30 days	916FF+45 days	^				
915 5.24.7.3	Commencement of E&M Installation at DOU 1	171 days Fri 17/06/22 Mon 05/12/22	•	32011113 0043					
916 5.24.7.3.		90 edays Fri 17/06/22 Thu 15/09/22	0 edays 914FF+45 days,91	13917SS+30 edays.9	18ME - F x 4~6 men				
917 5.24.7.3.		90 edays Sun 17/07/22 Sat 15/10/22	0 edays 916SS+30 edays			-			
918 5.24.7.3.		30 edays Sat 15/10/22 Mon 14/11/22	0 edays 916,917	919					
919 5.24.7.3.		21 edays Mon 14/11/22 Mon 05/12/22	*   '	1258					
920 5.25	Deodorization System, DOU 2A, Portion B-4 (PS 6B.2.6)	1583 days Mon 02/12/19 Mon 01/04/24	0 days						
9215.25.1	Planned Key Date Completion Date - KD1B, DOU 2A	<u>0 days Tue 01/06/21</u> <u>Tue 01/06/21</u>	<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					€	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	Selection of Plant and Materials	194 days Mon 02/12/19 Fri 12/06/20	0 days						
925 5.25.4.1	DOU - activated carbon filter (DOU No. 2A, No. 3A, No. 3B), C11, ref. EQT028	194 days Mon 02/12/19 Fri 12/06/20	0 days						
926 5.25.4.1.	, , , , , , ,	120 days Mon 02/12/19 Mon 30/03/20	0 days	927					
927 5.25.4.1.		60 days Tue 31/03/20 Fri 29/05/20	0 days 926	928					
928 5.25.4.1.	the state of the s	14 days Sat 30/05/20 Fri 12/06/20	0 days 927	930,951,972					
929 5.25.5	Design Submissions for DOU No. 2A	200 days Tue 01/09/20 Sat 20/03/21	115 days	-			-		
930 5.25.5.1	CDS007-2 - Detailed Design for Deodorisation System, DOU No. 2A	200 edays Tue 01/09/20 Sat 20/03/21	0 edays 928	933,936,922FF					J
931 5.25.6	Manufacturing and Delivery of Plant & Materials	345 days Sat 20/03/21 Sun 27/02/22	484 days						
932 5.25.6.1	DOU 2A	345 days Sat 20/03/21 Sun 27/02/22	484 days				•		
933 5.25.6.1.		300 days Sat 20/03/21 Thu 13/01/22	0 days 930	934					
934 5.25.6.1.	, ,	45 days Fri 14/01/22 Sun 27/02/22	361 days 933	941					
935 5.25.6.2	FRP Air Ductwork	345 days Sat 20/03/21 Sun 27/02/22	484 days				•		
936 5.25.6.2.	Manufacturing and Factory Acceptance Test of Plant	300 days Sat 20/03/21 Thu 13/01/22	0 days 930	937			<del>-</del>		
937 5.25.6.2.		45 days Fri 14/01/22 Sun 27/02/22	361 days 936	941					
938 5.25.7	Tentative Civil Handover, DOU 2A (Rev. 5)	1 day Thu 23/02/23 Thu 23/02/23	0 days						
939 5.25.8	Site Installation Work	231 days Thu 23/02/23 Thu 12/10/23	123 days						
940 5.25.8.1	Commencement of E&M Installation at DOU 2A	231 days Thu 23/02/23 Thu 12/10/23	123 days 560						
941 5.25.8.1.	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				
942 5.25.8.1.	Electrical Installations for DOU 2A	90 edays Wed 24/05/23 Tue 22/08/23	0 edays 941	943					
943 5.25.8.1.	Site Acceptance Test for E&M Equip for DOU 2A	30 edays Tue 22/08/23 Thu 21/09/23	0 edays 962,963,942	944					
944 5.25.8.1.	System Commissioning Test for DOU 2A	21 edays Thu 21/09/23 Thu 12/10/23	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						
946 5.26.1	Planned Key Date Completion Date - KD1B, DOU 3A	0 days Tue 01/06/21 Tue 01/06/21	<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					•	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						
949 5.26.4	Design Submissions for DOU No. 3A	234 days Fri 28/08/20 Mon 19/04/21	85 days						
950 5.26.4.1	CDS081-8 - Civil and dimensional requirements drawings for DOU No. 3A	200 days Fri 28/08/20 Mon 15/03/21	78 days	946FF					
951 5.26.4.2	CDS007-3 - Detailed Design for Deodorisation System, DOU No. 3A	200 edays Thu 01/10/20 Mon 19/04/21	0 edays 928	954,957,947FF			1		J
952 5.26.5	Manufacturing and Delivery of Plant & Materials	225 days Mon 19/04/21 Tue 30/11/21	634 days				•		
953 5.26.5.1	DOU 3A	225 days Mon 19/04/21 Tue 30/11/21	634 days				•		
954 5.26.5.1.	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 19/04/21 Sat 16/10/21	0 edays 951	955					
955 5.26.5.1.	Shipping and Delivery of Plant to Site	45 edays Sat 16/10/21 Tue 30/11/21	0 edays 954	962		7			
956 5.26.5.2	FRP Air Ductwork	225 days Mon 19/04/21 Tue 30/11/21	634 days			7	•		
957 5.26.5.2.	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 19/04/21 Sat 16/10/21	0 edays 951	958			<u> </u>		
958 5.26.5.2.	Shipping and Delivery of Plant to Site	45 edays Sat 16/10/21 Tue 30/11/21	0 edays 957	962					
959 5.26.6	Tentative Civil Handover, DOU 3A (Rev. 5)	1 day Thu 19/05/22 Thu 19/05/22	0 days			7			
960 5.26.7	Site Installation Work	171 days Tue 30/11/21 Fri 20/05/22	634 days						
961 5.26.7.1	Commencement of E&M Installation at DOU 3A	171 days Tue 30/11/21 Fri 20/05/22	634 days						
962 5.26.7.1.	Mechanical Installations for DOU 3A	120 edays Tue 30/11/21 Wed 30/03/22	0 edays 958,955	963SS+30 edays,9	64ME - F x 4~6 men				
963 5.26.7.1.	Electrical Installations for DOU 3A	90 edays Thu 30/12/21 Wed 30/03/22	0 edays 962SS+30 edays	964,943		7			
964 5.26.7.1.	Site Acceptance Test for E&M Equip for DOU 3A	30 edays Wed 30/03/22 Fri 29/04/22	0 edays 962,963	965					
965 5.26.7.1.	System Commissioning Test for DOU 3A	21 edays Fri 29/04/22 Fri 20/05/22	629 edays 964	1258					
966 5.27	Deodorization System, DOU 3B, Portion B-5B (PS 6B.2.6)	1265 days Thu 15/10/20 Mon 01/04/24	0 days						
	Tentative Civil Handover Date, underground air pipework for DOU 3B (by others) (Rev. 5)	1 day Wed 17/08/22 Wed 17/08/22	0 days	982FF+30 days,97	55				
967 5.27.1	remaine em manderer bate, andergream an pipement in bee by emers, (nem s)		*						

Drainage Services of the Host	ices Department  Rosy Special Administration Region	Shek Wu Hui Effluent Po	Proposed Work Programm Dishing Plant - Main Works Stage		wage Treatment Facil	ities			A
ID WBS	Task Name	Duration Start Finish between Task	Float Time Predecessors	Successors	Resource Names	2021 Half 1, 2021			Half 2, 2021
970 5.27.4		Start and Finish	0 4			11811 1, 2021	J	М	M J
	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 03/05/2:		075 070 06055					
972 5.27.5. <b>973 5.27.6</b>	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 17/08/2		975,978,969FF		_			
974 5.27.6	· · · · · · · · · · · · · · · · · · ·	471 days Mon 03/05/21 Wed 17/08/23							
975 5.27.6.		180 edays Mon 03/05/21 Sat 30/10/21	231 edays 972	976					
976 5.27.6.		60 edays Sat 18/06/22 Wed 17/08/22	·						
977 5.27.6	- PP 8	456 days Mon 03/05/21 Tue 02/08/22		-,					
978 5.27.6.		180 edays Mon 03/05/21 Sat 30/10/21	231 edays 972	979					
979 5.27.6.	, ,	45 edays Sat 18/06/22 Tue 02/08/22	· ·						
980 5.27.7	Site Installation Work	171 days Wed 17/08/22 Sat 04/02/23		,					
981 5.27.7.		171 days Wed 17/08/22 Sat 04/02/23	-						
982 5.27.7.		120 edays Wed 17/08/22 Thu 15/12/22		76983SS+30 edays,98	4ME - F x 4~6 men				
983 5.27.7.		90 edays Fri 16/09/22 Thu 15/12/22							
984 5.27.7.		30 edays Thu 15/12/22 Sat 14/01/23	0 edays 982,983	985					
985 5.27.7.		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						
9 <u>87</u> <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.	CDS081-9 - Civil and dimensional requirements drawings for Valve and Flowmeter Chambe	90 days Mon 01/03/21 Sat 29/05/21	3 days	987FF				_	_
993 5.28.5.	CDS018 - Detailed Design for Flowmeter and Valve Chambers	90 edays Sun 01/11/20 Sat 30/01/21	0 edays	995,988FF			<del> </del>		
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.	Manufacturing and Factory Acceptance Test of Plant	180 days Sat 30/01/21 Wed 28/07/21	0 days 993	996			Ť		
996 5.28.6.	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	734 days						
99 5.28.8.	Commencement of Valves and Flowmeters Installation at Chambers	150 days Sun 12/09/21 Tue 08/02/22	734 days						
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	729 days 1000	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						•	
003 5.29.1	Planned Key Date Completion Date - KD1B, UU	0 days Tue 01/06/21 Tue 01/06/21							KD1B, UU <sub>€ 01/06</sub>
004 5.29.2	Planned Sectional Completion Date - Section 1, Underground Pipework	0 days Mon 12/07/21 Mon 12/07/21							€ 12/07
005 5.29.3	Planned Sectional Completion Date - Section 4, Underground Pipework	0 days Wed 01/05/24 Wed 01/05/24							
006 5.29.4	Design Submissions	90 days Mon 01/03/21 Sun 30/05/21		40005-					<u> </u>
007 5.29.4.		90 edays Mon 01/03/21 Sun 30/05/21		1003FF					_
008 5.29.4.				1010,1004FF					
009 5.29.5	Manufacturing and Delivery of Plant & Materials	1079 days Tue 20/04/21 Tue 02/04/24		1011					
010 5.29.5.	, ,	180 days Tue 20/04/21 Sat 16/10/21		1011					
011 5.29.5.		45 days Sun 18/02/24 Tue 02/04/24			2				
012 5.29.6	Tentative Civil Handover, Road (Rev. 5)	1 day Thu 18/04/24 Thu 18/04/24		1011SS-60 edays,10	u	_			
013 5.29.7 014 5.29.7.	Site Installation	16 days Fri 19/04/24 Sat 04/05/24							
)14 <b>5.29.</b> 7. )15 5.29.7.	•	16 days Fri 19/04/24 Sat 04/05/24		1016					
)16 5.29.7.		3 days Fri 19/04/24 Sun 21/04/24 7 days Mon 22/04/24 Sun 28/04/24		1016					
017 5.29.7.		3 days Mon 29/04/24 Wed 01/05/24		1017					
017 5.29.7. 018 5.29.7.		3 days Thu 02/05/24 Sat 04/05/24	0 days 1016 0 days 1017	1018 1005FF					
)18 5.29.7. )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		100311		-			
020 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							
020 5.30.1 021 5.30.1.									
021 5.30.1.		73 days Mon 02/03/20 Wed 13/05/20		1023					
.022 5.30.1.		29 days Mon 02/03/20 Mon 30/03/20		1023 1024					
	OVIGUOU OF OROGANOUS FOR DURCHASING DACKAGE	30 days Tue 31/03/20 Wed 29/04/20	0 days 1022	1024					

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



Status Date Wed 20/01/21

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

Predecessors

Float Time

Duration Start

AECON

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

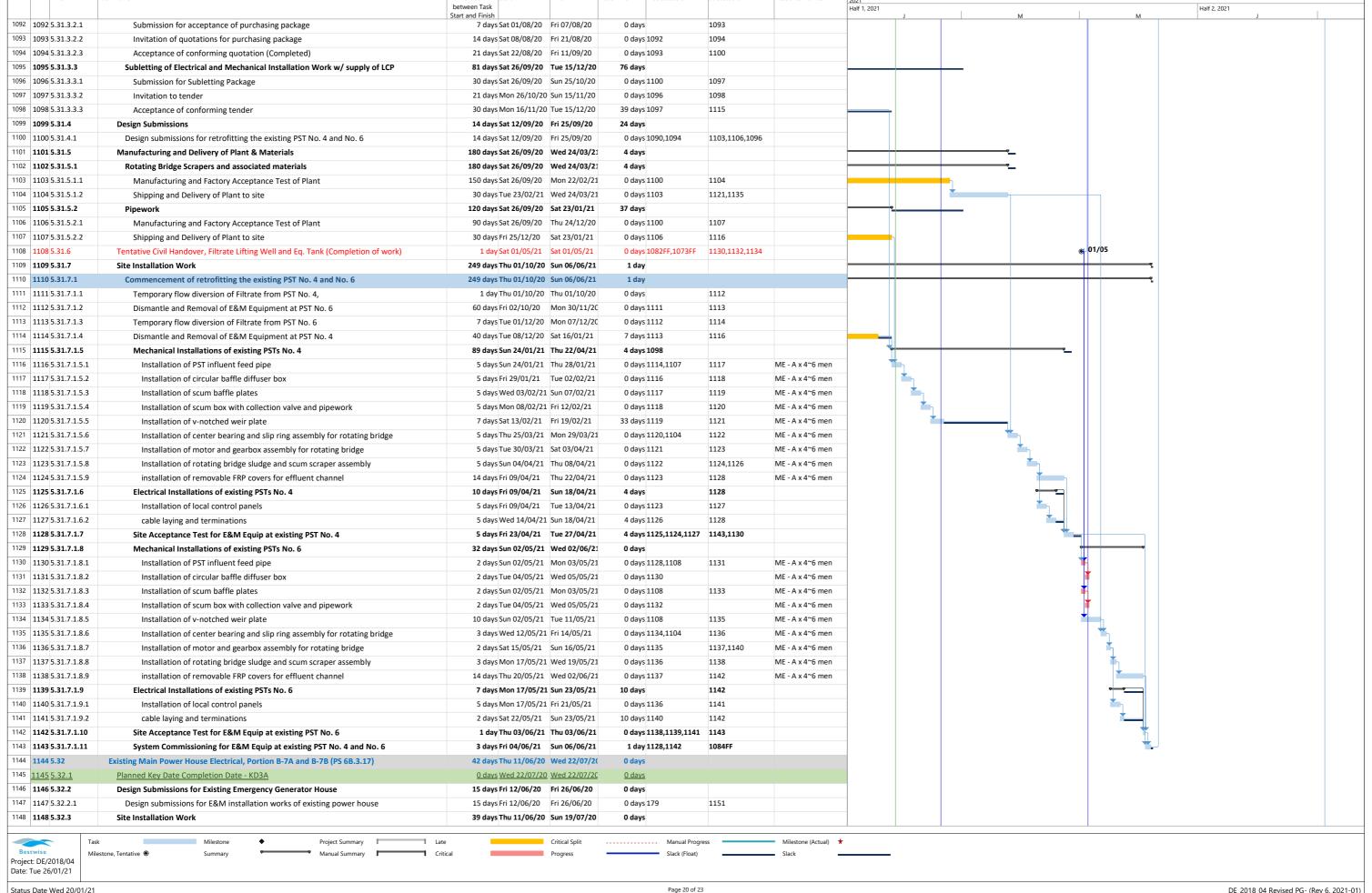
WBS

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

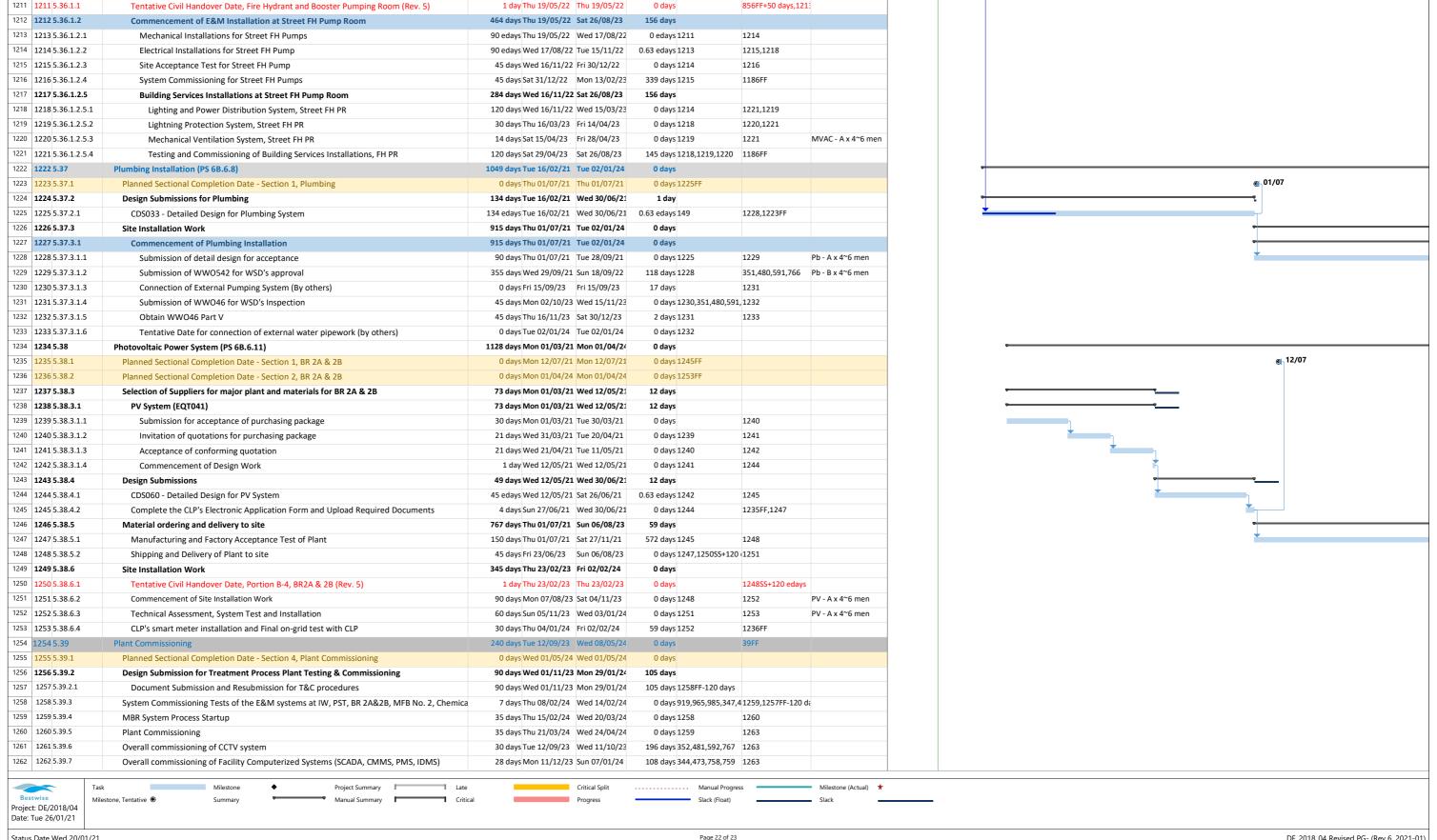
Duration Start

AECOM



Drainage Services E The Government of the Hong Kong Spec	Department  A demonstrative Region		Shek W	u Hui Effluent P			me for DE/2018/04 ge 1 E&M Works for Se	wage Treatment Facili	ties						F
ID WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Float Time	Predecessors	Successors	Resource Names	2021 Half 1, 2021	ı		ı	.,	Half 2, 2021	
1149 5.32.3.1	Tentative Civil Handover Date, Portion B-7A & 7B area for modification of existing emerge		Thu 11/06/20	Thu 11/06/20	0 days	s					M		IVI		J
1150 5.32.3.2	Commencement of Modification of existing emergency generator Electrical Works	23 day	Sat 27/06/20	Sun 19/07/20	0 days	s									
1151 5.32.3.2.1	Site survey and preparation work	1 da	Sat 27/06/20	Sat 27/06/20	0 days	s 1147	1152								
1152 5.32.3.2.2	Modification of existing emergency generator electrical works	3 day	Sun 28/06/20	Tue 30/06/20	0 days	s 1151	1153								
1153 5.32.3.2.3	Test the new switchboard for on-site mobile generator	2 day	Wed 01/07/2	Thu 02/07/20	0 days	s 1152	1154								
1154 5.32.3.2.4	Dismantling and removal the existing power & control cables	14 day	Fri 03/07/20	Thu 16/07/20	0 days	s 1153	1155								
1155 5.32.3.2.5	Take down existing generator to DSD (Completed)	3 day	Fri 17/07/20	Sun 19/07/20	0 days	s 1154									
1156 5.33	Existing Sludge Press House, Portion B-10 (PS 6B.2.11)	425 day	Wed 01/07/2	0 Sun 29/08/21	3 days	s									
<u>1157 5.33.1</u>	Planned Key Date Completion Date - KD3B	0 day	Mon 07/06/2	Mon 07/06/2	<u>0 days</u>	<u>2</u>						KD3B, Ex	t SPH 🌘 07/06		
1158 5.33.2	Selection of Suppliers for major plant and materials for Filter Presses	52 day	Wed 01/07/2	0 Fri 21/08/20	0 days	s									
1159 5.33.2.1	Mis - new replacement filter plates and provision of filter cloths, C11, ref. EQT038	52 day	Wed 01/07/2	0 Fri 21/08/20	0 days	s									
1160 5.33.2.1.1	Submission for acceptance of purchasing package	21 day	Wed 01/07/2	Tue 21/07/20	0 days	s	1161								
1161 5.33.2.1.2	Invitation of quotations for purchasing package	10 day	Wed 22/07/2	Fri 31/07/20	0 days	1160	1162								
1162 5.33.2.1.3	Acceptance of conforming quotation (Completed)	21 day	Sat 01/08/20	Fri 21/08/20	0 days	s 1161	1163								
1163 5.33.3	Design submission for replacement of filter plates	7 eday	Fri 21/08/20	Fri 28/08/20	0 edays	s 1162	1165								
1164 5.33.4	Manufacturing and Delivery of Plant & Materials	345 day	Sat 29/08/20	Sun 08/08/21	3 days	s									
1165 5.33.4.1	Manufacturing and Factory Acceptance Test of Plant	300 day	Sat 29/08/20	Thu 24/06/21	. 0 days	s 1163	1166							h	
1166 5.33.4.2	Shipping and Delivery of Plant to site			Sun 08/08/21		1165	1169							<del>\</del>	<u> </u>
1167 5.33.5	Site Installation Work			1 Sun 29/08/21					-						
1168 5.33.5.1	Commencement of replacement of filter plates			1 Sun 29/08/21	-										•
1169 5.33.5.1.1	Replacement of filter plates			Sun 29/08/21		s 1166	1085FF								<b>+</b>
1170 5.34	Fire Services Installation (PS 6B.6.9)			Wed 01/05/2											
1171 5.34.1	Planned Key Date Completion Date - KD1B, Fire			1 Tue 01/06/2		s 1175FF						KD1B, Fi	re 衡 01/06		
1172 5.34.2	Planned Sectional Completion Date - Section 1, FSI			Mon 12/07/2		s 1176FF								<b>a</b> 12/07	•
1173 5.34.3	Planned Sectional Completion Date - Section 4, FSI			Wed 01/05/2		s 1191FF								~	
1174 5.34.4	Design Submissions for FSI			Sat 30/10/21											
1175 5.34.4.1	CDS081-11 - Civil and dimensional requirements drawings for Fire Services Sprinkler Pump			Tue 30/03/21			1171FF								
1176 5.34.4.2	CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkler etc.			Sat 30/10/21			1180,1177,1172FF					-			
1177 5.34.5	-			Sun 27/02/22			1186FF								
1177 5.34.5	DG Stores Submissions to FSD for approval			Sat 27/04/24			110011								
1179 5.34.6.1	Site Installation Work  Commencement of Fire Services Installation			Sat 27/04/24											
1180 5.34.6.1.1				Sat 27/04/24 Sat 05/03/22			1101								
	Design Review of Approved General Building Plan					1176	1181								
1181 5.34.6.1.2	Submission of WW0542 for WSD's approval			Wed 30/11/2			1182								
1182 5.34.6.1.3	Submission of WWO46 for WSD's Inspection			Sun 05/11/23	· ·	1181,353,482,5									
1183 5.34.6.1.4	Obtain WWO46 Part V			Thu 04/01/24		1182	1186,1184								
1184 5.34.6.1.5	FSD Inspection and Approval for MVAC			Thu 25/01/24		1194,1195,118									
1185 5.34.6.1.6	FSD Inspection and Approval for DG Stores			Tue 26/12/23		1194,1195,816									
1186 5.34.6.1.7	Submission of (FSI/314 & FSI/501) to FSD			Thu 18/01/24		1194,1195,118									
1187 5.34.6.1.8	Pre-inspection meeting with FSD			Tue 30/01/24		1186,1184,118			_						
1188 5.34.6.1.9	Initial Inspection with FSD			Wed 14/02/2		1187	1189		_						
1189 5.34.6.1.10	Document Checking			Sat 30/03/24		1188	1190								
1190 5.34.6.1.11	Re-inspections with FSD			Sat 13/04/24		1189	1191								
1191 5.34.6.1.12	Issue of acceptance memo by FSD			Sat 27/04/24			1173FF								
1192 5.34.6.1.13	Installation of FS Pumps and Sprinkler Pumps			3 Thu 01/06/23	·		1195	FS - A x 4~6 men							
1193 5.34.6.1.14	Installation of Fire Hydrant and Booster Pumps	60 day	Mon 03/04/2	Thu 01/06/23			1195	FS - A x 4~6 men							
1194 5.34.6.1.15	SAT for Manual and automatic fire detection and alarm system	60 day	Sat 07/10/23	Tue 05/12/23	0 days	353,482,593,76	58,81186,1184,1185								
1195 5.34.6.1.16	SAT for Fire hydrants, hose reels and street fire hydrant system	60 day	Sat 07/10/23	Tue 05/12/23	0 days	1192,1193,353	,4871186,1184,1185								
1196 5.35	Fire Services Sprinkler Pumping Room, Portion B-7 & B-7B (PS 6B.6.9)			Thu 13/07/23		S									
1197 5.35.1	Site Installation Work	421 day	Thu 19/05/22	Thu 13/07/23	200 days	s									
1198 5.35.1.1	Tentative Civil Handover Date, FS Sprinkler Pump Room (Rev. 5)	1 day	Thu 19/05/22	Thu 19/05/22	0 days	S	1199,1204								
1199 5.35.1.2	Commencement of E&M Installation at FS & Sprinkler Pump Room	420 day	Thu 19/05/22	Thu 13/07/23	200 days	s 1198									
1200 5.35.1.2.1	Mechanical Installations for FS & Sprinkler Pumps	90 eday	Thu 19/05/22	Wed 17/08/2	2 0 edays	s	1201								
1201 5.35.1.2.2	Electrical Installations for FS & Sprinkler Pumps	90 eday	Wed 17/08/2	Tue 15/11/22	0.63 edays	s 1200	1202,1205,1206,12	1							
1202 5.35.1.2.3	Site Acceptance Test for FS & Sprinkler Pumps	45 day	Wed 16/11/2	2 Fri 30/12/22	0 days	s 1201	1203								
1203 5.35.1.2.4	System Commissioning for FS & Sprinkler Pumps	45 day	Sat 31/12/22	Mon 13/02/2	3 325 days	s 1202	1186								
1204 5.35.1.2.5	Building Services Installations at FS & Sprinkler Pump Room	240 day	Wed 16/11/2	2 Thu 13/07/23	200 days	s 1198									
1205 5.35.1.2.5.1	Lighting and Power Distribution System, Chem 1&2	120 day	Wed 16/11/2	Wed 15/03/2	3 0 days	s 1201	1208								
	· · · · · · · · · · · · · · · · · · ·		1				1	1							
T	ask Milestone • Project Summary Late					Manual Pro	ogress	Milestone (Actual)	ł .						
twise N	filestone, Tentative   Summary  Manual Summary  Criti	ical		Progress		Slack (Float		Slack							

Drainage Services D The Government of the Hong Kong Specia	epartment Administrative Region	Shek Wu Hu	ui Effluent Polish	Proposed Work Programme hing Plant - Main Works Stage		wage Treatment Facilit	ities					AECO/
ID WBS	Task Name	Duration Start Fin		at Time Predecessors	Successors	Resource Names	2021					
		between Task Start and Finish					Half 1, 2021	М		М	Half 2, 2021	
1206 5.35.1.2.5.2	Lightning Protection System, FS & Sprinkler Pump Room	30 days Wed 16/11/22 Th		90 days 1201	1208							
7 1207 5.35.1.2.5.3	Mechanical Ventilation System, FS & Sprinkler PR	14 days Wed 16/11/22 Tu		106 days 1201	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 Th			1186FF							
09 <b>1209 5.36</b>	Fire Hydrant and Booster Pumping Room, Portion B7 & B-7B (PS 6B.6.9)	465 days Thu 19/05/22 Sa		156 days								
0 1210 5.36.1	Site Installation Work	465 days Thu 19/05/22 Sa		156 days	05555 50 1 404							
1 1211 5.36.1.1	Tentative Civil Handover Date, Fire Hydrant and Booster Pumping Room (Rev. 5)	1 day Thu 19/05/22 Th		0 days	856FF+50 days,121	1:						
2 1212 5.36.1.2	Commencement of E&M Installation at Street FH Pump Room	464 days Thu 19/05/22 Sa		156 days	4244							
3 1213 5.36.1.2.1	Mechanical Installations for Street FH Pumps	90 edays Thu 19/05/22 We		0 edays 1211	1214							
4 1214 5.36.1.2.2	Electrical Installations for Street FH Pump	90 edays Wed 17/08/22 Tu		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		0 days 1214	1216							
6 1216 5.36.1.2.4	System Commissioning for Street FH Pumps	45 days Sat 31/12/22 Mo		339 days 1215	1186FF							
7 <b>1217 5.36.1.2.5</b> 8 1218 5.36.1.2.5.1	Building Services Installations at Street FH Pump Room	284 days Wed 16/11/22 Sat 120 days Wed 16/11/22 We		156 days 0 days 1214	1221,1219							
9 1219 5.36.1.2.5.1	Lightning Brotection System Street FH PR	30 days Thu 16/03/23 Fri		0 days 1214 0 days 1218	1221,1219							
19 1219 5.36.1.2.5.2 20 1220 5.36.1.2.5.3	Lightning Protection System, Street FH PR  Mechanical Ventilation System, Street FH PR	14 days Sat 15/04/23 Fri		0 days 1218 0 days 1219	1220,1221	MVAC - A x 4~6 men	n					
21 1221 5.36.1.2.5.4	Testing and Commissioning of Building Services Installations, FH PR	120 days Sat 19/04/23 Sat		145 days 1218,1219,1220		IVIVAC - A X 4 O IIIeII						
22 1222 5.37	Plumbing Installation (PS 6B.6.8)	1049 days Tue 16/02/21 Tu		0 days	118011							
23 1223 5.37.1	Planned Sectional Completion Date - Section 1, Plumbing	0 days Thu 01/07/21 Th		0 days 1225FF							<b>€</b> 01/07	
24 1224 5.37.2	Design Submissions for Plumbing	134 days Tue 16/02/21 W		1 day								
25 1225 5.37.2.1	CDS033 - Detailed Design for Plumbing System	134 edays Tue 16/02/21 We		0.63 edays 149	1228,1223FF		<b>⊣</b>					
26 1226 5.37.3	Site Installation Work	915 days Thu 01/07/21 Tu		0 days	1220,1220		_					
27 1227 5.37.3.1	Commencement of Plumbing Installation	915 days Thu 01/07/21 Tu		0 days							•	
28 1228 5.37.3.1.1	Submission of detail design for acceptance	90 days Thu 01/07/21 Tu		0 days 1225	1229	Pb - A x 4~6 men					<u> </u>	
29 1229 5.37.3.1.2	Submission of WWO542 for WSD's approval	355 days Wed 29/09/21 Su		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		17 days	1231							
1 1231 5.37.3.1.4	Submission of WWO46 for WSD's Inspection	45 days Mon 02/10/23 We		0 days 1230,351,480,59	91,1232							
2 1232 5.37.3.1.5	Obtain WWO46 Part V	45 days Thu 16/11/23 Sat	it 30/12/23	2 days 1231	1233							
33 1233 5.37.3.1.6	Tentative Date for connection of external water pipework (by others)	0 days Tue 02/01/24 Tu	ie 02/01/24	0 days 1232								
34 <b>1234 5.38</b>	Photovoltaic Power System (PS 6B.6.11)	1128 days Mon 01/03/21 Mo	on 01/04/24	0 days				•				
1235 5.38.1	Planned Sectional Completion Date - Section 1, BR 2A & 2B	0 days Mon 12/07/21 Mo	on 12/07/21	0 days 1245FF							<b>€</b> 12/07	
6 1236 5.38.2	Planned Sectional Completion Date - Section 2, BR 2A & 2B	0 days Mon 01/04/24 Mo	on 01/04/24	0 days 1253FF								
7 <b>1237</b> 5.38.3	Selection of Suppliers for major plant and materials for BR 2A & 2B	73 days Mon 01/03/21 W	ed 12/05/21	12 days				•				
8 1238 5.38.3.1	PV System (EQT041)	73 days Mon 01/03/21 We	ed 12/05/21	12 days				•	· ·	_		
9 1239 5.38.3.1.1	Submission for acceptance of purchasing package	30 days Mon 01/03/21 Tu	ie 30/03/21	0 days	1240							
0 1240 5.38.3.1.2	Invitation of quotations for purchasing package	21 days Wed 31/03/21 Tu	ie 20/04/21	0 days 1239	1241			*				
1 1241 5.38.3.1.3	Acceptance of conforming quotation	21 days Wed 21/04/21 Tu	ie 11/05/21	0 days 1240	1242				*			
2 1242 5.38.3.1.4	Commencement of Design Work	1 day Wed 12/05/21 We	ed 12/05/21	0 days 1241	1244				Ť			
3 <b>1243 5.38.4</b>	Design Submissions	49 days Wed 12/05/21 We	red 30/06/21	12 days					•			
4 1244 5.38.4.1	CDS060 - Detailed Design for PV System	45 edays Wed 12/05/21 Sat	t 26/06/21	0.63 edays 1242	1245				*		<b>—</b>	
5 1245 5.38.4.2	Complete the CLP's Electronic Application Form and Upload Required Documents	4 days Sun 27/06/21 We	ed 30/06/21	0 days 1244	1235FF,1247						*	
6 1246 5.38.5	Material ordering and delivery to site	767 days Thu 01/07/21 Su	ın 06/08/23	59 days							•	
7 1247 5.38.5.1	Manufacturing and Factory Acceptance Test of Plant	150 days Thu 01/07/21 Sat	t 27/11/21	572 days 1245	1248						*	
1248 5.38.5.2	Shipping and Delivery of Plant to site	45 days Fri 23/06/23 Su	ın 06/08/23	0 days 1247,1250SS+12	0 (1251							
9 <b>1249 5.38.6</b>	Site Installation Work	345 days Thu 23/02/23 Fri	i 02/02/24	0 days								
1250 5.38.6.1	Tentative Civil Handover Date, Portion B-4, BR2A & 2B (Rev. 5)	1 day Thu 23/02/23 Th	nu 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	it 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 We	ed 03/01/24	0 days 1251	1253	PV - A x 4~6 men						
3 1253 5.38.6.4	CLP's smart meter installation and Final on-grid test with CLP	30 days Thu 04/01/24 Fri		59 days 1252	1236FF							
1254 5.39	Plant Commissioning	240 days Tue 12/09/23 We		0 days	39FF							
1255 5.39.1	Planned Sectional Completion Date - Section 4, Plant Commissioning	0 days Wed 01/05/24 We		0 days								
the state of the state of	Design Colomical on for Treatment Durance Diget Testing & Commissioning	90 days Wed 01/11/23 Me	on 20/01/2/	105 dame			i I					
56 <b>1256 5.39.2</b> 57 1257 5.39.2.1	Design Submission for Treatment Process Plant Testing & Commissioning  Document Submission and Resubmission for T&C procedures	90 days Wed 01/11/23 Md		105 days 105 days 1258FF-120 days								





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** 

n le l	- LV			_			ewage Treatment Facilit	T					
D ID WBS	Task Name	Duration Start between Task	Finish	Float Time	Predecessors	Successors	Resource Names	2021 Half 1, 2021				Half 2, 2021	
1362 1363 5 30 0	2	tart and Finish	Mad 00 /05 /2	,	m 1200 1201 1202			, 2021	J	M	М	2, 2021	j
1263 1263 5.39.8	Overall Plant Commissioning and DSD pre-handover inspections	14 days Thu 25/04/24			ys 1260,1261,1262								
1264 <b>1264 5.40</b>	CE No. 009 - Provision of an Additional Primary Sludge Thickening System	140 days Tue 14/07/20				1267							
1265 1265 5.40.1	Detail Design Submission and Approval	77 days Tue 14/07/20				1267							
1266 1266 5.40.2	Subletting, Procurement, Manufacturing and Delivery	120 days Fri 31/07/20		0 day									
1267 5.40.3	Site Installation	40 days Sat 17/10/20			ys 1265	1268							
1268 1268 5.40.4	Testing and Commissioning	5 days Thu 26/11/20			ys 1267	1269FF							
1269 1269 5.40.5	Planned Completion Date	1 day Mon 30/11/20		0 day	ys 1268FF								
1270 <b>1270</b> 6	Beam Plus Submissions	1450 days Fri 01/05/20		0 day	/s								
1271 1271 6.1	SA10 - Environmental Management Plan	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
1272 1272 6.2	SA11 - Air Pollution During Construction	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
1273 1273 6.3	SA12 - Noise During Construction	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys	39							
1274 1274 6.4	SA14 - Noise from Building Equipment	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys	39							
1275   1275   6.5	SA15 - Light Pollution	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys	39							
276 1276 6.6	MAP1 - Timber used for Temporary Works	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys	39							
1277 1277 6.7	MAP2 - Use of Non-CFC Based Refrigerants	1450 days Fri 01/05/20	Fri 19/04/24	19 day	<b>y</b> s	39							
278 1278 6.8	MAP3 - Waste Management Plan	1450 days Fri 01/05/20	Fri 19/04/24	19 day	<b>y</b> s	39							
279 1279 6.9	MA2 - Modular and Standardized Design	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
280 1280 6.10	MA8 - Ozone Depleting Substances	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/s	39							
281 1281 6.11	MA11 - Construction Waste Reduction	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
282 1282 6.12	EUP1 - Minimum Energy Performance	1450 days Fri 01/05/20	Fri 19/04/24	19 day	<b>y</b> s	39							
283 1283 6.13	EU1 - Reduction of CO2 Emissions	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys	39							
284 1284 6.14	EU2 - Peak Electricity Demand Reduction	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys	39							
285 1285 6.15	EU6 - Renewable Energy Systems	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys	39							
286 1286 6.16	EU9 - Energy Efficient Appliances	1450 days Fri 01/05/20	Fri 19/04/24	19 day	/s	39							
287 1287 6.17	EU10 - Testing and Commissioning	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
288 1288 6.18	EU11 - Operation and Maintenance	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
289 1289 6.19	EU12 - Meter and Monitoring	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
290 1290 6.20	WUP1 - Water Quality Survey	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
1291 1291 6.21	WUP2 - Minimum Water Saving Performance	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
292 1292 6.22	WU1 / WU6 - Annual Water Use / Effluent Discharge to Foul Sewers	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys .	39							
293 1293 6.23	IEQP1 - Minimum Ventilation Performance	1450 days Fri 01/05/20	Fri 19/04/24	19 day	ys	39							
294 1294 6.24	IEQ1 - Security	1450 days Fri 01/05/20		19 day		39							
295 1295 6.25	IEQ2 - Plumbing and Drainage	1450 days Fri 01/05/20		19 day		39							
1296 1296 6.26	IEQ3 - Biological Contamination	1450 days Fri 01/05/20		19 day		39							
1297 1297 6.27	IEQ5 - Construction IAQ Management	1450 days Fri 01/05/20		19 day		39							
298 1298 6.28	IEQ6 / IEQ7 - IAQ	1450 days Fri 01/05/20		19 day		39							
299 1299 6.29	IEQ9 - Increased Ventilation	1450 days Fri 01/05/20		19 day		39							
300 1300 6.30	IEQ11 - Localised Ventilation	1450 days Fri 01/05/20		19 day		39							
301 1301 6.31	IEQ12 - Ventilation in Common Areas	1450 days Fri 01/05/20		19 day		39							
1302 1302 6.32	IEQ13 - Thermal Comfort in Air - Conditioned Premises	1450 days Fri 01/05/20		19 day		39							
1303 1303 6.33	IEQ16 / IEQ17 - Interior Lighting in Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting in Areas not Normally Occupied Area / Interior Lighting Interior L	1450 days Fri 01/05/20		19 day		39							
304 <b>1304 7</b>	Summary of compensation events notified	126 days? Wed 22/04/20											
305 1305 7.1	Compensation Event (CE) No. 001, Special Arrangement in Reducing the Risk of the Spread of Novel Cor	1 day Tue 25/08/20											
306 1306 7.2	Compensation Event (CE) No. 002, special Arrangement in Neducing the NSK of the Spread of Novel Col  Compensation Event (CE) No. 002, the Contractor's Site Accommodation by Modular Integrated Constru	1 day Non 08/06/20						-					
								-					
307 1307 7.3	Compensation Event (CE) No. 003, Designated Area for the Contractor's Site Accommodation in Works	1 day Wed 22/04/20											
308 1308 7.4	Compensation Event (CE) No. 005, Designated Area for the Contractor's Storage Area in Works Area WA	1 day Wed 22/04/20											
1309 1309 7.5	Compensation Event (CE) No. 007, Employment of Temporary Staff under Anti-Epidemic Fund	1 day Fri 10/07/20		0 day									
1310 1310 7.6	Compensation Event (CE) No. 009, Provision of an Additional Primary Sludge Thickening System and Del	1 day Tue 14/07/20											
1311 1311 7.7	Compensation Event (CE) No. 011, Dismantling, relocating, disconnecting and re-installing of the existin	1 day? Fri 17/07/20	Fri 17/07/20	0 days	5?						 		

