# **Drainage Services Department**

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

# Quarterly EM&A Summary Report April to June 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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Ref.: DSDSWHS1EM00\_0\_0134E.21

27 September 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

#### **Quarterly EM&A Summary Report for April to June 2021**

Reference is made to the Environmental Team's submission of Quarterly EM&A Summary Report for April to June 2021 (Version 1) certified by the ET Leader and provided to us via email on 24 September 2021.

Please be informed that we write hereby to confirm that we have no adverse comments on the captioned submission.

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

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

Y H Hui

Independent Environmental Checker

C.C.

DSD

Cinotech

Attn.: Ms Konica Cheung

Attn.: Mr K. S. Lee

(By Fax: 3104 6420)

(By Fax: 3107 1388)

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#### **EXECUTIVE SUMMARY**

#### Introduction

1. This is the 6<sup>th</sup> Quarterly Environmental Monitoring and Audit (EM&A) Summary 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" (hereinafter called "the Project"). 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 conducted between 1<sup>st</sup> April 2021 and 30<sup>th</sup> June 2021.

## Summary of Main Works Undertaken and Key Measures Implemented

2. The construction activities undertaken in the reporting quarter were as follows:

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

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>RC works</li> <li>Wall and slab construction</li> <li>Backfilling</li> <li>Pipe laying</li> <li>Pipe jacking work</li> <li>ELS and excavation works</li> </ul>
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	<ul> <li>ELS and construction of inlet reception chamber</li> <li>Trench excavation</li> <li>Road and drainage works</li> <li>Diversion of inlet works</li> <li>Process pipe of CHR and CHS</li> <li>Pre-drilling work and foundation work</li> <li>Cable diversion works</li> <li>Demolition work of existing main facilities</li> <li>Alternation of existing powerhouse</li> <li>Pre-bored H piles</li> <li>Sheet pile installation</li> </ul>
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis	<ul> <li>Break concrete pavement and ramp</li> <li>Construct sump pit and curb</li> <li>Relocate container includes, remove shrubs and laying blinding</li> <li>Trial pits excavation</li> <li>Construct wheel washing facilities</li> <li>Setup of piling works, mobilization of plant and equipment</li> <li>Socket H piling</li> <li>Installation of EOT crane</li> </ul>

Contract No.	Contract Title	Site Activities
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>Retrofitting the existing primary sedimentation tank no. 4 and 6</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.
- Faded NRMM label was replaced.

#### Water Quality

• Stagnant water on the impervious sheets was removed.

#### Waste Management

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

## Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels between April and June 2021 and summary of the non-compliance in the reporting quarter for the Project is tabulated in **Table II**.

Table II Non-compliance Record for the Project in the Reporting Quarter

•	No. of Exceedance		Investigation
Parameter	Action Level	Limit Level	Result
April 2021			
Air Quality (1-hour TSP)	0	0	N/A
Air Quality (24-hour TSP)	0	0	N/A
Noise	0	0	N/A
Ecology	0	0	N/A
May 2021			
Air Quality (1-hour TSP)	0	0	N/A
Air Quality (24-hour TSP)	0	0	N/A
Noise	0	0	N/A
Ecology	0	0	N/A
June 2021			
Air Quality (1-hour TSP)	0	0	N/A
Air Quality (24-hour TSP)	0	0	N/A
Noise	0	0	N/A
Ecology	0	0	N/A

5. No exceedance was recorded at any air quality monitoring station during the reporting period.

- 6. No exceedance was recorded at any noise monitoring station during the reporting period.
- 7. No Action and Limit Level was triggered for ecological monitoring during the reporting period.

# Complaint Handling, Prosecution and Public Engagement

8. Summary of complaint handling, prosecution and public engagement in the reporting quarter is tabulated in **Table III**.

Table III Summary Table of Complaints, Summons, Prosecutions and Public Engagement

**Activities in the Reporting Quarter** 

Treat trans in the relation of America					
Event	E	vent Details	Follow-up/ Remedial Actions Status/ Remarks		
Event	Number	<b>Brief Description</b>	Follow-up/ Kemediai Actions	Status/ Kelliai Ks	
Complaints Received	0	-	-	-	
Notification of					
Summons and	0				
Prosecutions	U	-	-	-	
Received					
Public					
Engagement	0	-	-	-	
Activities					

#### **Reporting Changes**

9. There were no reporting changes during the reporting quarter.

# **Future Key Issues**

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

Table IV 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>RC works</li> <li>Wall and slab construction</li> <li>Backfilling</li> <li>Pipe laying</li> <li>Pipe jacking work</li> </ul>
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	<ul> <li>ELS and construction of inlet reception chamber</li> <li>Trench excavation</li> <li>Road and drainage works</li> <li>Diversion of inlet works</li> <li>Process pipe of CHR and CHS</li> <li>Pre-drilling work and foundation work</li> <li>Cable diversion works</li> <li>Demolition work of existing main facilities</li> <li>Alternation of existing powerhouse</li> <li>Pre-bored H piles</li> <li>Sheetpile installation</li> </ul>
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis	<ul> <li>Socket H piling</li> <li>Installation of EOT crane</li> <li>Installation of cable tray, conduit</li> <li>Installation of F.S. equipment</li> <li>Installation of power cable</li> </ul>
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	<ul> <li>Electrical installation of temporary filtrate equalisation tank</li> <li>Electrical installation of temporary primary sludge thickener and its accessories</li> <li>Retrofitting the existing primary sedimentation tank no. 6</li> <li>Modification of existing emergency generator electrical works</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 Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of the Project was on 3<sup>rd</sup> January 2020. This is the 6<sup>th</sup> Quarterly EM&A Summary Report summarizing the EM&A works for the Project between 1<sup>st</sup> April 2021 and 30<sup>th</sup> June 2021.

#### **Project Organizations**

- 1.5 Different Parties with different levels of involvement in the project organization include:
  - Permit Holder/Project Proponent 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)

1.6 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 / Project	Ms. Konica Cheung	2594 7463
שטט	Proponent	Public Enquiry	3142 2256
AECOM	Supervisor Representative	Ms. Bianca Choi	3907 6141
Cinatash	Environmental Teem	Mr. KS Lee (ETL)	2151 2091
Cinotech	Environmental Team	Ms. Betty Choi	2151 2072
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
KLCWJV	Contractor (DC/2018/06)	Ms. Ruby Hui	6218 6408
KLCWJV	Contractor (DC/2018/07)	Ms. Shirley Kong	5162 5933
JEC	Contractor (DE/2018/03)	Ms. Juliet Ting	6826 7319
Bestwise	Contractor (DE/2018/04)	Mr. Albus Cheung	9731 0831

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

# **Construction Activities Undertaken During the Reporting Quarter**

1.8 The construction programme is presented in **Appendix A**. The major site activities undertaken in the reporting quarter were:

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

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>RC works</li> <li>Wall and slab construction</li> <li>Backfilling</li> <li>Pipe laying</li> <li>Pipe jacking work</li> <li>ELS and excavation works</li> </ul>
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	<ul> <li>ELS and construction of inlet reception chamber</li> <li>Trench excavation</li> <li>Road and drainage works</li> <li>Diversion of inlet works</li> <li>Process pipe of CHR and CHS</li> <li>Pre-drilling work and foundation work</li> <li>Cable diversion works</li> <li>Demolition work of existing main facilities</li> <li>Alternation of existing powerhouse</li> <li>Pre-bored H piles</li> <li>Sheet pile installation</li> </ul>

Contract No.	Contract Title	Site Activities
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis	<ul> <li>Break concrete pavement and ramp</li> <li>Construct sump pit and curb</li> <li>Relocate container includes, remove shrubs and laying blinding</li> <li>Trial pits excavation</li> <li>Construct wheel washing facilities</li> <li>Setup of piling works, mobilization of plant and equipment</li> <li>Socket H piling</li> <li>Installation of EOT crane</li> </ul>
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>Retrofitting the existing primary sedimentation tank no. 4 and 6</li> </ul>

#### **Quarterly EM&A Summary Report – April to June 2021**

#### 2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

#### Monitoring Parameters and Monitoring Locations

2.1 The Updated EM&A Manual designates locations for the ET to monitor environmental impacts in terms of air quality, noise and ecology due to the Project. The Project area and monitoring locations are depicted in **Figures 2-4**. **Appendix B** gives details of monitoring requirements.

### **Environmental Quality Performance Limits (Action and Limit Levels)**

2.2 Should the environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix C**.

#### **Monitoring Methodology**

2.3 Monitoring works/equipment were conducted/calibrated regularly in accordance with the Updated EM&A Manual. Copies of calibration certificates are attached in the appendices of the corresponding Monthly EM&A Reports within the reporting period.

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

2.4 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and Updated EM&A Manual. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix D**.

#### **Site Audit Summary**

2.5 Site audits were carried out on a weekly basis. During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations made during the reporting period are summarized in **Appendix E**.

#### **Status of Waste Management**

2.6 The amount of wastes generated by the major site activities of this Project is shown in **Appendix F**.

#### 3 MONITORING RESULTS

#### Weather Conditions

3.1 The weather conditions were generally sunny and cloudy during the monitoring sessions of the reporting period. The details of weather conditions for each individual monitoring session was presented in the corresponding Monthly EM&A Reports within the reporting period.

#### **Air Quality**

- 3.2 All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.
- 3.3 All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.
- 3.4 The graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix G** and **Appendix H** respectively.

#### **Construction Noise**

- 3.5 All construction noise monitoring was conducted as scheduled in the reporting period. No Action and Limit Level exceedance was recorded.
- 3.6 The graphical presentations of the noise monitoring results are shown in **Appendix I**.

#### **Ecology**

- 3.7 All ecological monitoring was conducted as scheduled in the reporting period. No Action and Limit Level was triggered for ecological monitoring between April and June 2021.
- 3.8 A summary of ecological monitoring analysis is shown in **Appendix J**.

#### **Water Quality**

- 3.9 According to the Updated EM&A Manual, no water monitoring is required before the commencement of outfall construction at Ng Tung River.
- 3.10 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures of this project. No non-compliance of water quality mitigation measures was observed in the reporting quarter.

#### **Waste Management**

3.11 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. Details of the amount of wastes generated by the major site activities is shown in **Appendix F**.

#### **Landscape and Visual**

3.12 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures of this project. No non-compliance of the landscape and visual mitigation measures was recorded in the reporting quarter.

#### **Influencing Factors on the Monitoring Results**

3.13 During the reporting period, the major dust and noise sources identified at the designated monitoring stations are shown in **Tables 3.1 and 3.2**.

Table 3.1 Major Dust Sources during the Monitoring in the Reporting Quarter

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

 Table 3.2
 Major Noise Sources during the Monitoring in the Reporting Quarter

Monitoring Stations	Major Noise Source
NM1 - Wai Loi Tsuen	Railway Noise and Road Traffic at Sheung Shui Tung Hing Road
NM2 - Fu Tei Au	N/A
NM3 - Man Kok Village	Road traffic at Po Wan Road

3.14 The observations identified during ecological monitoring at the designated monitoring stations are shown in **Table 3.3**.

Table 3.3 Observations during Ecological Monitoring in the Reporting Quarter

Location	Project Related	Non-Project Related
T1 (PC1, PC2)	N/A	Fishing and jaywalking
T2 (PC3, PC4)	Excavation and crane	G.I. works, jaywalking and fishing
PC5	Excavation and crane	N/A
T3 (PC6, PC7)	N/A	Construction of planter, sheet-piling, generator, air compressor, wielding works, jaywalking and fishing

### Quarterly EM&A Summary Report – April to June 2021

# 4 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

#### **Summary of Exceedances**

- 4.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in **Appendix K**.
- 4.2 No Action/Limit Level exceedance was recorded at all 1-hour and 24-hour TSP monitoring stations in the reporting quarter.
- 4.3 No Action/Limit Level exceedance was recorded at all noise monitoring stations in the reporting quarter.
- 4.4 No Action and Limit Level exceedance was triggered was recorded for ecological monitoring in the reporting quarter.
- 4.5 No non-conformity for landscape and visual impact was recorded in the reporting quarter.

#### Review of the Reasons for and the Implications of Non-compliance

4.6 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were attached in the **Appendix E**.

# Summary of Complaint, Warning, Notification of Any Summons and Successful Prosecution

- 4.7 No environmental complaints, warning, notifications of summons and environmental prosecution was received during the reporting quarter.
- 4.8 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix L**.

#### 5 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

# Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Programme

5.1 The EM&A methodology has been effective in monitoring the environmental impacts of the Project and the effectiveness of the mitigation measures. The data collected were useful in determining whether the Project had caused unacceptable impacts on the sensitive receivers. Analysis of all EM&A data collected throughout the baseline and the impact periods demonstrated the environmental acceptability of the Project.

### **Review on Effectiveness of Mitigation Measures**

- 5.2 The mitigation measures recommended in the EIA report are considered effective in minimizing environmental impacts.
- 5.3 The Contractor has implemented the recommended mitigation measures except for those mitigation measures not applicable at this stage.
- 5.4 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed.
- 5.5 The summary record of non-compliance (exceedances) of Action/Limit Level for environmental monitoring in the reporting quarter has been presented in **Table II** above and in **Appendix K**.
- 5.6 No environmental complaints, warning, notifications of summons and environmental prosecution was received in the reporting quarter. The details were attached in the **Appendix L**.
- 5.7 The effectiveness of environmental management is satisfactory given that the recommendations given in the site inspections performed in the reporting period are met.

# Recommendations

5.8 According to the environmental audits performed in the reporting quarter, 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.
- Faded NRMM label should be replaced.

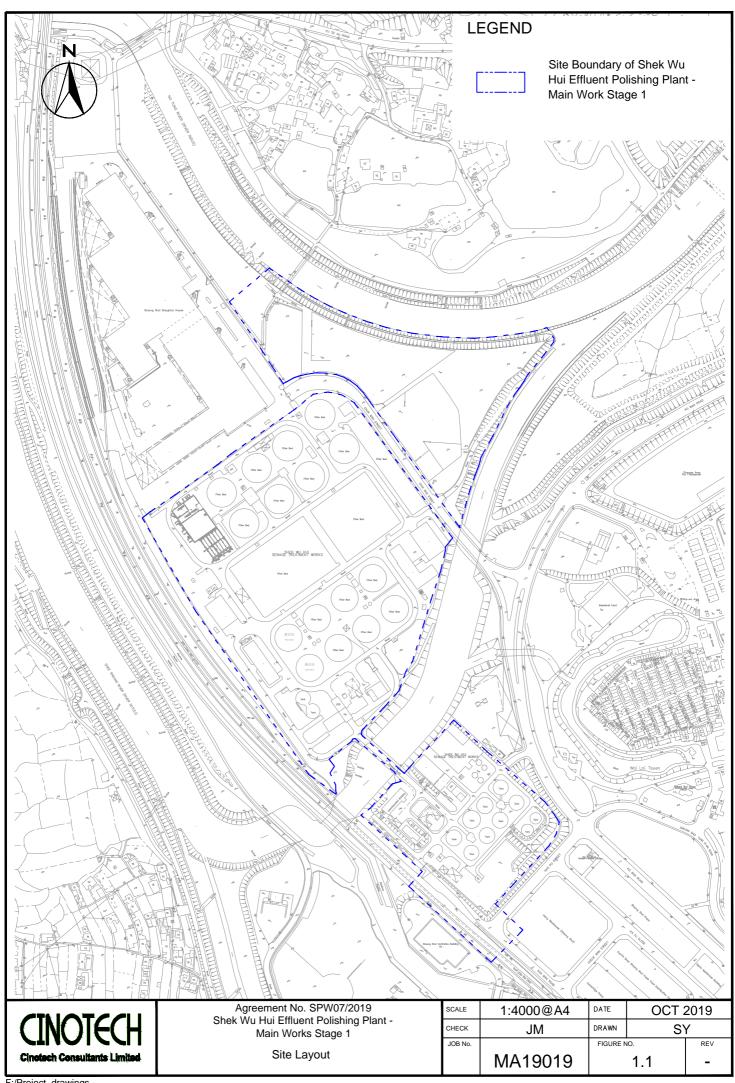
### Water Quality

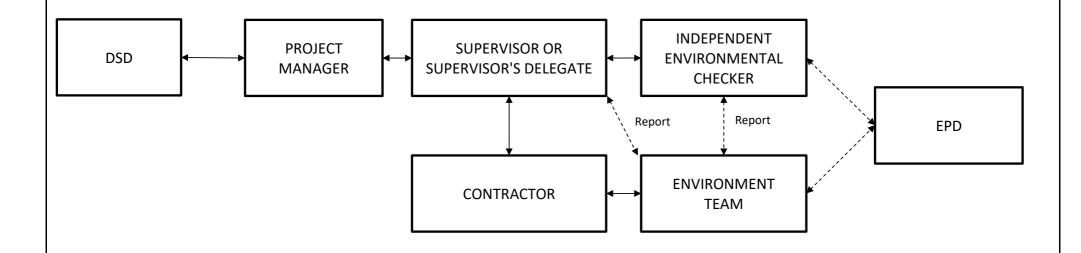
- Stagnant water should be removed and pumped through the sedimentation tank.
- Wastewater should be pumped and collected in the sedimentation tank before discharge.
- Muddy water should not be discharged into the surrounding rivers.
- No slurry should be disposed of at the existing Shek Wu Hui Sewage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

#### Waste Management

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

**FIGURES** 



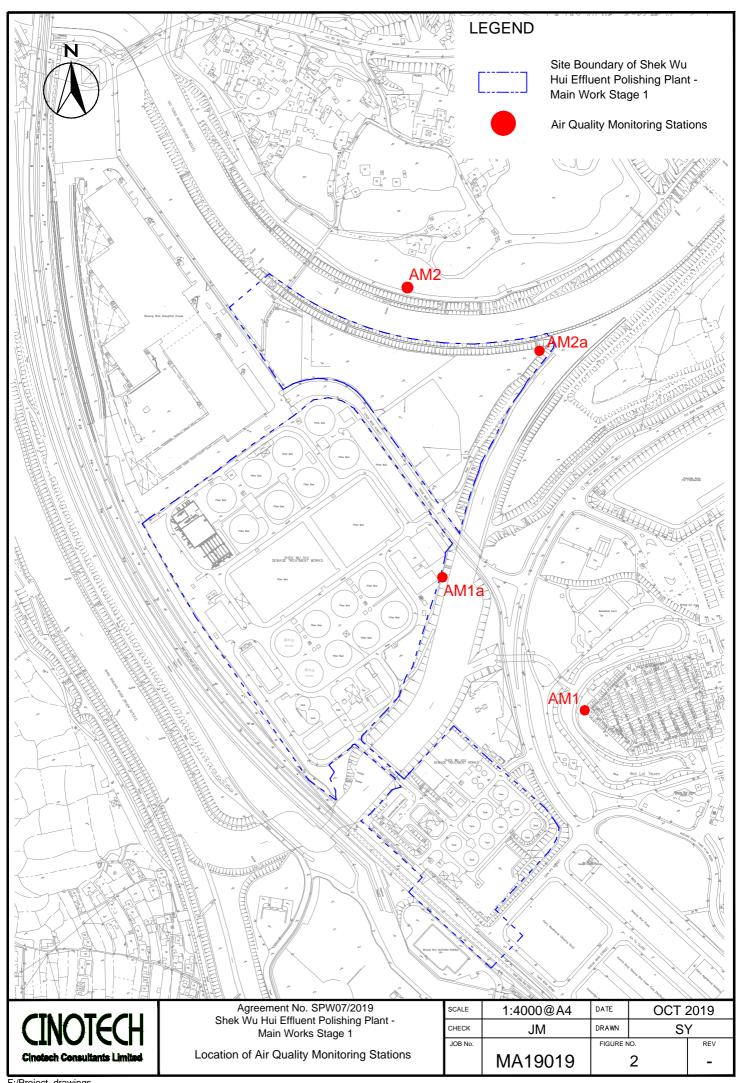


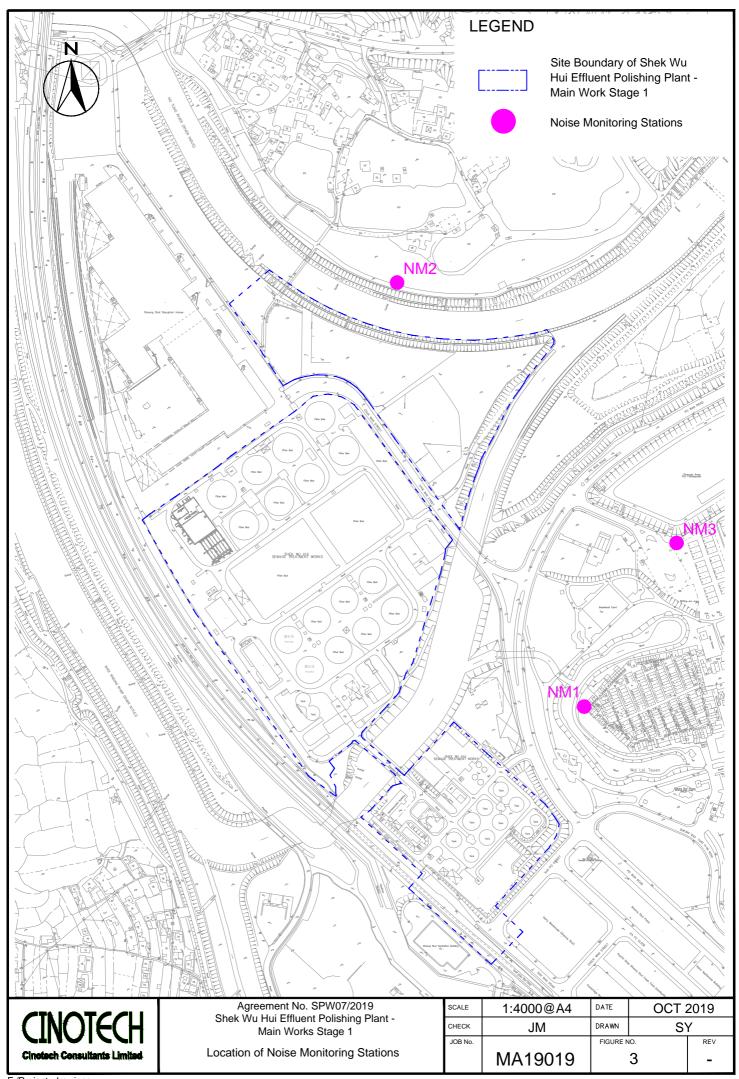
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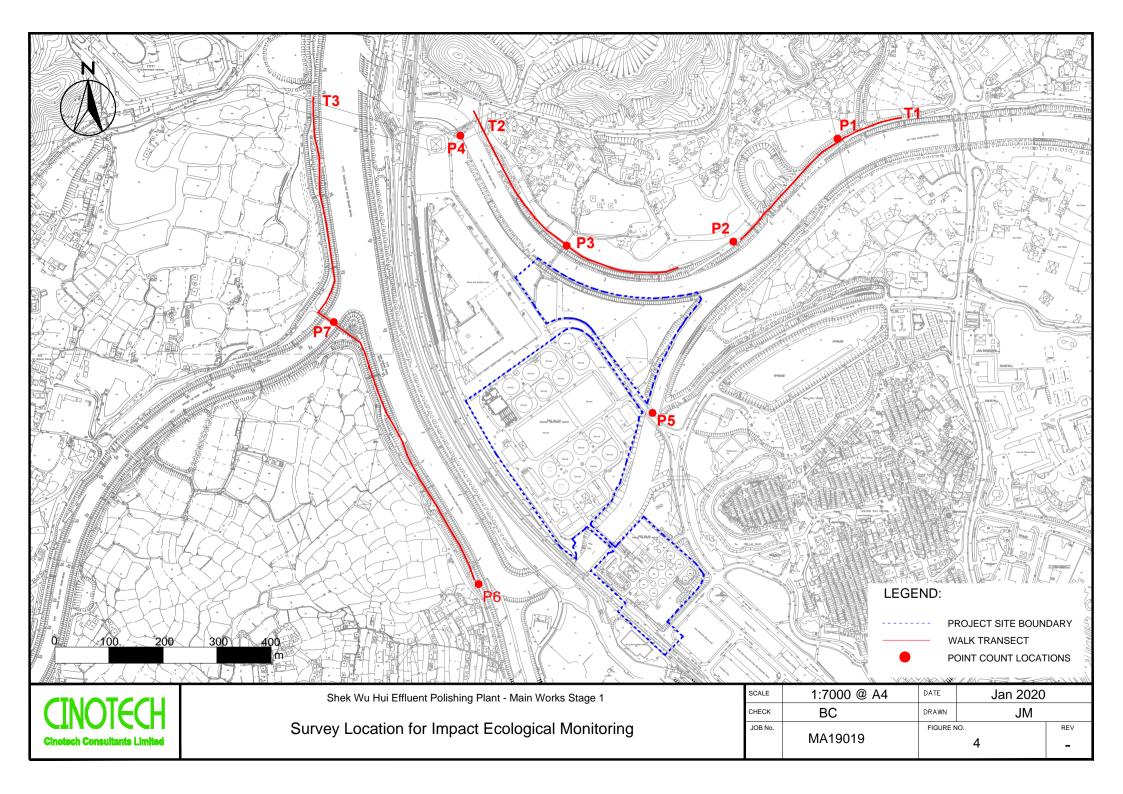
Agreement No. SPW07/2019 Shek Wu Hui Effluent Polishing Plant- Main Works Stage 1

**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





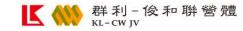


# APPENDIX A CONSTRUCTION PROGRAMME

Status Date: 30 Jun 21

Executive Summary Programme (Status Date: 30/06/2021)

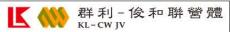
Contract No.: DC/2018/06 Contract Title: Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation



		ent Facilities and 132kV Primary Substation												
Activity ID	KD T	Fask Name	Inclement Weather CE no (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start Actual Fin	ish Total	al Slack F	Predecessors	Successors	% Time Comple Risk Allowan 2	2nd Half   1st Half   2nd Half   1st Half   2nd Half
			(NCE 110.)										Allowari	Q3 Q2 Q1 Q4 Q3 Q2 Q1 Q4 Q3
CKD-01000	KD1A	KD1A (606 days after starting date)			0 days	Fri 14/5/21	Fri 14/5/21	NA		-	2FS+607 days 5	56	0%	♦ 14/5
KD-02000	KD2A	KD2A (738 days after starting date) KD3A (822 days after starting date)			0 days	Thu 23/9/21	Thu 23/9/21	NA NA				62	0%	♦ 23/9 ♦ 16/12
KD-03000 KD-04000	KD3A KD3B	KD3A (622 days after starting date) KD3B (808 days after starting date)			0 days 0 days	Thu 16/12/21 Thu 2/12/21	Thu 2/12/21	NA NA			2FS+823 days 6 2FS+809 days 7	74	0%	♦ 1012 ♦ 2/12
KD-04000	KD3C	KD3C (824 days after starting date)			0 days	Sat 18/12/21	Sat 18/12/21	NA NA				79	0%	◆ 18/12
D-06000	KD3D	KD3D (705days after starting date)			0 days	Sat 21/8/21	Sat 21/8/21	NA		-	2FS+706 days 8	84	0%	◆ 21/8
KD-07000	KD3E	KD3E (893.5 days after starting date)			0 days	Sat 26/2/22	Sat 26/2/22	NA			2FS+894.5 days 8	89	0%	• ◆ 26/2
CD-01000	SW1	Section 1 of Works (753 days after starting date)			0 days	Fri 8/10/21	Fri 8/10/21	NA			2FS+754 days 9	94	0%	♦ 8/10
CCD-02000	SW2	Section 2 of Works (1,380 days after starting date)			0 days	Tue 27/6/23	Tue 27/6/23	NA	NA 0 c	days 2	2FS+1381 days 1	100	0%	♦ 27/6
CCD-03000	SW3	Section 3 of Works (1,201 days after starting date)			0 days	Fri 30/12/22	Fri 30/12/22	NA	NA 0 c	days 2	2FS+1202 days 1	106	0%	♦ 30/12
CCD-04000	SW4	Section 4 of Works (987 days after starting date)			0 days	Mon 30/5/22	Mon 30/5/22	NA	NA 0 c	days 2	2FS+988 days 1	112	0%	♦ 30/5
CCD-05000	SW5	Section 5 of Works (1,676 days after starting date)			0 days	Thu 18/4/24	Thu 18/4/24	NA	NA 0 c	days 2	2FS+1677 days 3	32,33,118	0%	♦ 18/4
PD-00000	* P	Planned Completion - Key Date (cal. day)			1217 days	Wed 5/5/21	Tue 3/9/24	NA	NA 0 c				0%	5/5
PKD-00000	*	Planned Completion - Key Dates			440 days	Wed 5/5/21	Tue 19/7/22	NA	NA 0 c				0%	5/5
PKD-01000	KD1A	KD1A			0 days	Wed 5/5/21	Wed 5/5/21	NA NA			250FF		0%	♦ 5/5
PKD-02000 PKD-03000	KD2A KD3A	KD2A KD3A			0 days	Sat 5/3/22	Mon 20/12/21 Sat 5/3/22	NA NA			555FF,558FF 272FF		0%	♦ 20/12 ♦ 5/3
PKD-03000 PKD-04000	KD3B	KD3B			0 days 0 days	Sat 5/3/22	Sat 5/3/22	NA NA		-	294FF		0%	♦ 5/3
PKD-05000	KD3C	KD3C			0 days		Tue 19/7/22	NA			313FF,312FF		0%	♦ 19/7
PKD-06000	KD3D	KD3D			0 days		Mon 25/10/21	NA.		2 days 3			0%	· · · · · ·
PKD-07000	KD3E	KD3E			0 days		Mon 6/6/22	NA.		-	357FF,364FF,371FF,378FI		0%	♦ 6/6
PCD-00000	*	Planned Completion - Section of the Works (cal. day)			827 days	Mon 30/5/22		NA	NA -234				0%	30/5
PCD-01000	SW1	Section 1 of Works			0 days	Sat 19/11/22	Sat 19/11/22	NA	NA -407	7 days 4	142FF,472FF,474FF,476FI		0%	♦ 19/11
					-									
PCD-02000	SW2	Section 2 of Works			0 days		Tue 29/11/22	NA 		-	560FF,577FF		0%	♦ 29/11
PCD-03000	SW3	Section 3 of Works			0 days		Wed 28/12/22	NA		-	171FF,315FF,328FF,345FI		0%	♦ 28/12
PCD-04000	SW4	Section 4 of Works			0 days	Mon 30/5/22		NA NA			385FF,391FF,396FF,443FI		0%	♦ 30/5
PCD-05000	SW5	Section 5 of Works			0 days	Mon 4/9/23	Mon 4/9/23	NA NA			252FF,276FF,297FF,316FI	149,50	0%	♦ 4/9
PCD-06000	DLP	Defect Liability Period			365 days	Tue 5/9/23	Tue 3/9/24	NA Mon 16/0/10	NA 0 c	-	10		0%	♦ 3/9 16/9 31/8
CWPC-00000 CUV1-00000	* C	Construction Works of Portion C of the Site  UV System No. 1 & Effluent Pumping Station No. 1			1463 days	Mon 16/9/19	Sat 31/8/24 Mon 16/5/22	Mon 16/9/19 Mon 16/9/19	NA 389	_			17% 61%	16/9
CUV1-00000		Walls, Slabs and staircase Construction @+7.4mPD to 16.4mPD		(108), (146), (148), (179), (182)	787 days 35 days	Sat 20/3/21	Wed 5/5/21	Sat 20/3/21		6 days 2	244	250,251,249	0%	20/3 5/5
00V 1-0304 I	ND IA	[Additional SP1-3 puddle (DN100 x 2 & DN80)		(100), (170), (140), (1/3), (102)	oo uays	Jat 20/3/21	rrou JrJ/Z I	Sat ZuisiZ I	-30	uays Z		200,201,249	J /0	
CUV1-10000	KD1A	Construction of Switch room			20 days	Tue 23/3/21	Sun 11/4/21	Tue 23/3/21	NA 33	3 days			50%	23/3 🧔 11/4
CUV1-11000	KD1A	Allow access to Contarctor DE/2018/03 for E&M Installation			0 days	Wed 5/5/21	Wed 5/5/21	NA	NA 8 c	days 2	247 3	36FF	0%	♦ 5/5
1 CUV1-12000	SW1	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Linit	ng	(95)	120 days	Tue 11/5/21	Sat 2/10/21	NA	NA 336	6 days 2	208,135,247	252,44FF	0%	11/5 2/10
2 CUV1-13000	SW5	Surrounding Site formation works and road works			180 days	Mon 4/10/21	Mon 16/5/22	NA	NA 389	9 days 2	251 4	48FF	0%	4/10 16/5
3 CSDC-00000	*	Sludge Digesters and Distribution Chamber			916 days	Sat 7/12/19	Wed 11/1/23	Sat 7/12/19	NA 191				40%	7/12
O CSDC-11050		Construction of Roof Slab			60 days	Mon 20/12/21		NA		2 days 2		272,275,273,274		20/12 5/3
2 CSDC-12000		Allow access to Contarctor DE/2018/03 for E&M Installation		(470)	0 days	Sat 5/3/22	Sat 5/3/22	NA NA		2 days 2		38FF	0%	♦ 5/3 157
5 CSDC-15000 6 CSDC-16000		ABWF Works & BS Works		(173)	105 days	Mon 7/3/22	Fri 15/7/22	NA NA		-		276 48FF	0% 0%	7/3 15/7 16/7 11/1
7 CSDB-00000	SW5	Surrounding Site formation works and road works  Sludge Dewatering Building			180 days 875 days	Sat 16/7/22	Wed 11/1/23 Wed 9/11/22	Tue 26/11/19	NA 242	6 days 2	273	4011	43%	107
3 CSDB-0000	KD3B	Roof Construction @ +25.65mPD			32 days	Tue 25/1/22	Sat 5/3/22	NA		B days 2	292 4	411,294	0%	25/1 = 5/3
4 CSDB-12000		Allow access to Contarctor DE/2018/03 for E&M Installation			0 days	Sat 5/3/22	Sat 5/3/22	NA.		4 days 2		39FF	0%	◆ 5/3
6 CSDB-14000		ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Liniu	na	(95), (173)	164 days	Mon 7/3/22	Fri 23/9/22	NA NA				297	0%	7/3 23/9
		Surrounding Site formation works and road works	-9	(00), (110)	180 days	Sat 24/9/22	Wed 22/3/23	NA.		6 days 2	,,	48FF	0%	24/9 22/3
8 CHPB-00000	*	Combined Heat Power Building			1046 days		Mon 26/6/23	Tue 10/12/19	NA 59	,			14%	10/12
7 CHPB-08000	KD3C	R.C. Structure			263 days	Thu 26/8/21	Mon 18/7/22	NA	NA -168	8 days 2	205,206,133,305,204,306S	315,313	0% 10	26/8 18/7
2 CHPB-08500	KD3C	Roof @27.15mPD			23 days	Tue 21/6/22	Mon 18/7/22	NA	NA -168	8 days 3	311 4	40FF,313	0%	21/6 🔳 18/7
3 CHPB-09000	KD3C	Allow access to Contarctor DE/2018/03 for E&M Installation			1 day	Tue 19/7/22	Tue 19/7/22	NA	NA -168	8 days 3	307,312	40FF,314SF	0%	19/7   19/7
5 CHPB-11000		ABWF Works & BS Works		(95), (173)	135 days		Wed 28/12/22	NA	NA 0 c	days 3		316,46FF	0%	19/7 28/12
6 CHPB-12000		Surrounding Site formation works and road works			180 days	Thu 29/12/22		NA		days 3	315 4	48FF	0%	29/12 26/6
7 CSPS-00000		Sewage Pumping Station			821 days	Fri 15/11/19		Fri 15/11/19	NA 305				19%	15/11 24/8
		R.C. Structure & waterproofing works			230 days		Fri 5/11/21	Tue 26/1/21		9 days 3		328,42FF	0%	26/1
CSPS-10000		ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lini	ing		90 days		Fri 25/2/22	NA NA				329,46FF	0%3	6/11 25/2
9 CSPS-11000		Surrounding Site formation works and road works  Workshop No. 2			180 days	Sat 26/2/22		NA Tue 24/12/19		6 days 3	328 4	48FF	0%	26/2 24/8
CWS2-00000		•			821 days		Wed 5/10/22	NA	NA 272	-	241	344,345,343	18%	6/9 25/10
CWS2-08030 CWS2-09000		Roof Construction @+19.00mPD  Allow access to Contarctor DE/2018/03 for E&M Installation			40 days 0 days		Mon 25/10/21 Mon 25/10/21	NA NA	NA -52	2 days 3		344,345,343 41FF	0% 0%	♦ 25/10
5 CWS2-09000		ABWF Works & BS Works		(95), (173)	135 days	Tue 26/10/21		NA NA				346,46FF	0%	26/10 8/4
6 CWS2-11000		Surrounding Site formation works and road works		(-0), ()	180 days	Sat 9/4/22	Wed 5/10/22	NA NA	NA 334			48FF	0%	9/4 5/10
7 CTHP-00000		Thermal Hydrolysis Pretreatment (6)			840 days		Sun 23/10/22	Thu 19/12/19	NA 257				33%	19/12
7 CTHP-09000		R.C. Plinth	(165), (181)	225, (115)	40 days	Mon 7/3/22	Tue 26/4/22	NA NA		-	355,265,356SS-2 emons 3	358,42FF	0%	7/3 26/4
8 CTHP-10000		Surrounding Site formation works and road works			180 days		Sun 23/10/22	NA		6 days 3		48FF	0%	27/4 23/10
9 CFCD-00000		Ferric Chloride Dosing Facilities (10)			374 days	Tue 25/5/21	Thu 25/8/22	NA	NA 45				0%	25/5 25/8
4 CFCD-04000		Steel Roof Structure (On-site Fabrication)			65 days	Fri 15/10/21	Fri 31/12/21	NA		days 3		365,42FF	0%	15/10 31/12
5 CFCD-05000		ABWF Works & BS Works			45 days	Mon 3/1/22	Sat 26/2/22	NA				366,46FF	0%	3/1 26/2
6 CFCD-06000		Surrounding Site formation works and road works			180 days	Sun 27/2/22	Thu 25/8/22	NA		5 days 3	365 4	48FF	0%	27/2 25/8
7 CFHB-00000		Fire Hydrant and Booster Pump Room (16)			298 days	Sat 19/6/21	Tue 21/6/22	NA 	NA 119		200 400 072 224	070 4077	0%	19/6 21/6
1 CFHB-03000		R.C. Structure & waterproofing works			60 days	Fri 20/8/21	Mon 1/11/21	NA NA	NA 95		369,133,378,204,134,370S		0% 5	20/8 1/11
2 CFHB-04000		ABWF Works & BS Works			45 days	Tue 2/11/21	Thu 23/12/21	NA NA		-		373,46FF	0%	2/11 <b>2</b> 3/12 24/12 <b>2</b> 1/6
3 CFHB-05000 4 CTFS-00000		Surrounding Site formation works and road works  Transformer and Switchroom (15)			180 days 341 days	Fri 24/12/21 Fri 1/1/21	Tue 21/6/22 Sun 27/2/22	NA NA	NA 440 NA 183	0 days 3	JI Z 4	48FF	0% <b>0%</b>	24/12 27/2
3 CTFS-03000		R.C. Structure			60 days	Thu 18/3/21	Wed 2/6/21	NA NA			376,133,408,204,377SS-2 3	379 371 4255	0%5	18/3 2/6
O CTFS-03000		ABWF Works & BS Works		(95)	75 days	Thu 3/6/21	Tue 31/8/21	NA NA		_		380,46FF	0%5	3/6 31/8
CTFS-05000		Surrounding Site formation works and road works		. 7	180 days	Wed 1/9/21	Sun 27/2/22	NA		4 days 3		48FF	0%	1/9 27/2
CWMC-00000		Water Meter Cabinet (11)		204	259 days	Sat 12/6/21	Wed 27/4/22	NA	NA 131				0%	12/6 27/4
CWMC-03000		ABWF Works & BS Works			15 days	Tue 12/10/21		NA			384,208,135	386,47FF	0%	12/10 29/10
CWMC-04000		Surrounding Site formation works and road works			180 days	Sat 30/10/21		NA	NA 495	-		48FF	0%	30/10 27/4
0011-00000	*	Guard House (14)			271 days	Mon 6/9/21	Sun 7/8/22	NA	NA 118	8 days			0%	6/9 7/8
CGH-03000	SW4	ABWF Works & BS Works		(95)	45 days	Sat 11/12/21	Tue 8/2/22	NA			390,208,135	392,47FF	0%	11/12 8/2
	SW5	Surrounding Site formation works and road works			180 days	Wed 9/2/22	Sun 7/8/22	NA	NA 393	3 days 3	391 4	48FF	0%	9/2 7/8
00.00000		THP Coolers Pumping Station (21)			257 days	Sun 10/10/21		NA	NA 86				0%	10/10 23/8
CCPS-02000		R.C. Structure			60 days	Fri 10/12/21	Thu 24/2/22	NA	NA 75	-	394,133,204,395SS-2 emo 3		0% 5	10/12 24/2
CCPS-03000		Surrounding Site formation works and road works			180 days	Fri 25/2/22	Tue 23/8/22	NA 	NA 377	-	396 4	48FF	0%	25/2 23/8
CWGB-00000		Waste Gas Buner (8)			216 days	Sun 25/7/21		NA NA	NA 104		100 422 40422 2	420 400 40==	0%	25/7 17/4
CWGB-03000		R.C. Plinth			20 days	Fri 24/9/21	Tue 19/10/21	NA NA			400,133,401SS-2 emons 4		0%	24/9 19/10
		Surrounding Site formation works and road works  Plant Services Water System (20)			180 days	Wed 20/10/21		NA Man 21/12/20	NA 505	_	+UZ 4	48FF	0%	20/10 17/4
CWGB-04000		Figur Services water System (ZU)			205 days	Mon 21/12/20	Wed 1/9/21 Fri 5/3/21	Mon 21/12/20	NA 594		100 100 10700 0	279 400 4255	<b>14%</b> 100%	21/12 3 1/9 • 5/3
CPSW-00000				(136) (117)	U yane									
	KD3E	Basement Construction @+1.20mPD Surrounding Site formation works and road works		(136), (117)	0 days 180 days		Wed 1/9/21	Tue 26/1/21 F	ri 5/3/21 0 d NA 733	-	106,133,407SS-2 emons 3	48FF	0%	6/3 1/9

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

Executive Summary Programme (Status Date: 30/06/2021)



ivil Works for S	ludge Treatr	tment Facilities and 132kV Primary Substation													KL-CW JV
Activity I	D KD	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start Actual	Finish To	otal Slack	Predecessors		% Time Comple Risk Allowan	2nd Half   2nd Half   2nd Half   03   02   01   04   03	1st Half 2nd Half Q2 Q1 Q4 Q3
10 CDS11-00	000 *	Deodorization System No. 11			234 days	Tue 22/2/22	Sat 3/12/22	NA	NA	-67 days			0%		3/12
14 CDS11-03	000 KD3E	R.C. Plinth			34 days	Mon 25/4/22	Mon 6/6/22	NA	NA	-78 days	412,133,413SS-2 emons	415,42FF	0%	25/4	<b>₫</b> 6/6
415 CDS11-04	000 SW5	Surrounding Site formation works and road works			180 days	Tue 7/6/22	Sat 3/12/22	NA	NA	275 days	414	48FF	0%	7/6	3/12
416 CBGH-000	000 *	Biogas Holder (7)			254 days	Mon 18/10/21	Thu 25/8/22	NA	NA	15 days			0%	18/10	25/8
420 CBGH-030	00 KD3E	R.C. Plinth			55 days	Sat 18/12/21	Sat 26/2/22	NA	NA	0 days	418,133,419SS-2 emons	421,42FF	0%	18/12 26	1
421 CBGH-040	00 SW5	Surrounding Site formation works and road works			180 days	Sun 27/2/22	Thu 25/8/22	NA	NA	375 days	420	48FF	0%	27/2	25/8
422 CH2S-000	00 *	H2S Removal System (12)			230 days	Fri 3/9/21	Thu 16/6/22	NA	NA	73 days			0%	3/9	16/6
426 CH2S-030	00 KD3E	R.C. Plinth			40 days	Wed 3/11/21	Sat 18/12/21	NA	NA	54 days	424,425SS-2 emons	427,42FF	0%	3/11 18/12	
427 CH2S-040	00 SW5	Surrounding Site formation works and road works			180 days	Sun 19/12/21	Thu 16/6/22	NA	NA	445 days	426	48FF	0%	19/12	<b>1</b> 6/6
428 CDS12-00	000 *	Deodorization System No. 12 (19)			211 days	Fri 20/8/21	Tue 10/5/22	NA	NA	97 days			0%	20/8	10/5
432 CDS12-03	000 KD3E	E R.C. Plinth			20 days	Wed 20/10/21	Thu 11/11/21	NA	NA	86 days	430,133,402,431SS-2 em	no 433,42FF	0%	20/10 11/11	
433 CDS12-04	000 SW5	Surrounding Site formation works and road works			180 days	Fri 12/11/21	Tue 10/5/22	NA	NA	482 days	432	48FF	0%	12/11	10/5
434 CUPH-000	<del>00</del> *	Underpass & Pump House (Omitted)		332	0 days	Mon 16/9/19	Mon 16/9/19	NA	NA	0 days			0%	● 16/9	
435 CPWU-00	000 *	Pipe Works and Utility Installation			1030 days	Fri 22/11/19	Thu 18/5/23	Fri 22/11/19	NA	90 days			15%	22/11	18/5
166 CPWU-01	020 SW5	Surrounding Site formation works and road works			180 days	Sun 20/11/22	Thu 18/5/23	NA	NA	109 days	465,478,479,480,481,482	2 48FF	0%		20/11 18/5
479 CPWU-02	130 SW4	Stormdrain Pipeworks & testing works			262 days	Mon 12/7/21	Mon 30/5/22	NA	NA	0 days	138,287,337,188	47FF,466	0%	12/7	30/5
480 CPWU-02	140 SW4	Sewerage Pipeworks, manhole, protective lining & testing works	3	210	262 days	Mon 12/7/21	Mon 30/5/22	NA	NA	0 days	138,287,337,194	47FF,466	0%	12/7	30/5
181 CPWU-02	150 SW4	Watermain Pipeworks & testing works		205, 206, 207, 216, 219, 220, 221, 221-1, 222	262 days	Mon 12/7/21	Mon 30/5/22	NA	NA	0 days	138,287,337,191,194	47FF,466	0%	12/7	30/5
482 CPWU-02	160 SW4	Cable & Other Underground Utility Pipeworks			434 days	Mon 7/6/21	Sat 19/11/22	NA	NA -	-317 days	138,287,337	466	0%		19/11
516 CPWU-02	200 SW4	Pipe Bridge No.1			175 days	Mon 2/8/21	Thu 3/3/22	NA	NA	69 days	2	47FF	0%	2/8 3/3	
517 CRWL-00	000 *	Remaining Works & Landscape Works			891 days	Sat 21/8/21	Sat 31/8/24	NA	NA	0 days			0%	21/8	31/8
518 CRWL-010				218	600 days	Sat 21/8/21	Wed 30/8/23	NA	NA	4 days	141	48FF	0%	21/8	30/8
519 CRWL-020	000 SW5	Hard Landscape Works			600 days	Sat 21/8/21	Wed 30/8/23	NA	NA	4 days	141	48FF	0%	21/8	30/8
520 CRWL-030					600 days	Sat 21/8/21	Wed 30/8/23	NA	NA	0 days	141	526,48FF	0%	21/8	30/8
521 CRWL-040					124 days	Tue 1/11/22	Fri 31/3/23	NA	NA	126 days	180	48FF	0%		1/11 31/3
522 CRWL-050					124 days		Fri 31/3/23	NA	NA	126 days	180	48FF	0%		1/11 31/3
523 CRWL-060	000 SW5			(37)	90 days	Tue 1/11/22	Mon 20/2/23	NA	NA	70 days	180	524,48FF	0%		1/11 20/2
524 CRWL-070					90 days	Tue 21/2/23	Mon 12/6/23	NA	NA	70 days	180,523	48FF	0%		21/2 12/6
525 CRWL-080		Remaining Site formation works, road works and boundary fend	e wall		250 days	Thu 29/12/22	Mon 4/9/23	NA	NA	0 days	46	48FF	0%		29/12 4/9
527 CWPA-00		Construction of Portion A of the Site			891 days		Tue 29/11/22	Wed 27/11/19		167 days			42%	27/11	29/11
528 C132S-00		132kV Substation			891 days		Tue 29/11/22	Wed 27/11/19	NA	167 days			42%	27/11	29/11
555 C132SI-28	000 KD2A	A Architectual Works			75 days	Mon 2/8/21	Sat 30/10/21	NA	NA	-30 days	549FF,550FF,551FF,552	FI37FF	0%	2/8 30/10	
558 C132SI-31	000 KD2A	A Handover to CLP for Electrical System Installation			7 days	Mon 13/12/21	Mon 20/12/21	NA			556,557	559,37FF	0%	13/12 20/12	
560 C132SI-33	000 SW2	Inspection and Handover to CLP			30 days	Thu 5/5/22	Fri 10/6/22	NA	NA	167 days	559	577,45FF	0%	5/5	10/6
577 C132SE-0	3000 SW2	Construction of New Boundary Wall		(155)	143 days	Sat 11/6/22	Tue 29/11/22	NA	NA	167 days	560.576	45FF	0%	11/	29/11

ui Effluent Polishing	Plant - Main Works Stage 1 ask Name	Inclement PMI & CE no. Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	ictual Start	Actual Finish Predecessors	Successors	Total Slack Risk Allowance % Complete					
Date		Weather (NCE no.) CE no.	_accomin cidit		Suggest	Just		out	11000000000		7% Complete		Quarter		Quarter 1st Quarter	
1000	contract Dates	(NCE no.) 1585 days	Mon 18/11/19	Thu 27/3/25	1651.5 days	Mon 18/11/19	Fri 13/6/25	Mon 18/11/19	NA NA		282.5 days	July January  D%	July Ja	anuary July January		July January July
010	Starting Date	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19		8,9,13FS+290 days,14FS+31	· ·	o% <b>♦ 18/11</b>	1			 
1000 1010	Access Dates (cal. day) Portion B-1 (Access Road AR3)	310 days 0 days	Mon 18/11/19 Mon 18/11/19	Wed 23/9/20 Mon 18/11/19	289 days 0 days	Mon 18/11/19 Fri 10/1/20	Wed 2/9/20 Fri 10/1/20	Mon 18/11/19 Fri 10/1/20			0 days 10 days	•	_			1
020	Portion B-1A (Area for the works for Sidestream Treatment Facilities by	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20			0 days 10	0% • 10/1	i			
	Others												Į.		l I	1
030	Portion B-2 (Inlet Works No.1)  Portion B-2A (Area for the pipe-jacking works by others)	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days 0 days	Fri 10/1/20 Fri 10/1/20	Fri 10/1/20 Fri 10/1/20	Fri 10/1/20 Fri 10/1/20			0 days 10 0 days 10	0% <b>♦ 10/1</b> 0% <b>♦ 10/1</b>	į			į
1050	Portion B-3 (Primary Sedimentation Tanks No. 1-4)	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19				,	0% \$ 18/11				
1060	Portion B-4 (Bioreactor No. 2A & 2B)	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19				0% <b>♦ 1B/11</b>	į			į
1070 1080	Portion B-5 (Membrane Facilities Building No.2)  Portion B-6 (SAS Pumping Station)	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days 0 days	Tue 17/3/20 Mon 18/11/19	Tue 17/3/20 Mon 18/11/19	Tue 17/3/20 Mon 18/11/19			0 days 10 0 days 10	0% <b>♦ 17/3</b>				
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			1	0% \$ 18/11	I I			1
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		504FS-1 day,29FS+179 days		0%	<b>♦</b> 2/9			į
1110	Portion B-8 (Alternation for existing Membrane Facilities Building No.1)  Portion B-8A (Alternation of air supply main for existing Air Blower House	0 days 0 days	Tue 22/9/20 Mon 18/11/19	Tue 22/9/20 Mon 18/11/19	0 days	Wed 26/8/20 Mon 18/11/19	Wed 26/8/20 Mon 18/11/19	Wed 26/8/20 Mon 18/11/19				0%   0% <b>♦ 18/11</b>	<b>◆ 26/8</b>			
	No.2)												Į.			
1130 1140	Portion B-9 (remainder works in Zone B)  Portion B-9A (Area for the pipe-jacking works by others)	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19				0% ♦ 18/11 0% ♦ 18/11	i	i		i
1150	Portion B-9B (Area for underground pipework modification and connection	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19		Mon 18/11/19 2			0% ♦ 18/11	I I			
	works by others)															1
1160	Portion B-9C (Area for the works for pipeworks)  Key Dates (cal. day)	0 days 1440 days	Wed 22/7/20 Tue 19/11/19	Wed 22/7/20 Sat 28/10/23	0 days	Fri 24/7/20 Fri 27/11/20	Fri 24/7/20 Mon 15/1/24	Fri 24/7/20 Fri 27/11/20			0 days 10 844 days 9	0%     	<b>♦</b> 24/7			<b>15/1</b>
1010	KD1A completion of AR3 in Portion B-1 (375 days after starting date)	300 days	Tue 19/11/19	Sun 13/9/20	0 days	Fri 27/11/20	Fri 27/11/20	Fri 27/11/20			0 days 10	0%	<b>♦ 27/11</b>			
1020	KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (438.5 days after starting date)	360 days	Tue 19/11/19	Thu 12/11/20	1 day	Sat 30/1/21	Sat 30/1/21	Sat 30/1/21	Sat 30/1/21 2FS+439.5 days		0 days 10	0%	11		į	į
1030	KD1C completion of civil and structural works of Inlet Works No.1 in Portion	n 990 days	Tue 19/11/19	Thu 4/8/22	0 days	Sat 22/10/22	Sat 22/10/22	NA	NA 2FS+1069.5 days	67	1290.5 days	0%			↓ <b>22/10</b>	I I
	B-2 (1068.5 days after starting date)				2 30,0				·				į			Į.
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	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA 2FS+1191 days		1173 days	0%			<b>♦</b> 20/2	i i
1050	KD1E completion of civil and structural works of Bioreactor in Portion B-4	1140 days	Tue 19/11/19	Sun 1/1/23	0 days	Sun 1/1/23	Sun 1/1/23	NA	NA 2FS+1141 days		1223 days	0%			<b>♦ 1/1</b>	
	(1140days after starting date)													1		į
1060	KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (855.5 days after starting date)	800 days	Tue 19/11/19	Wed 26/1/22	0 days	Wed 23/3/22	Wed 23/3/22	NA	NA 2FS+856.5 days	70	1507.5 days	0%	l	♦ 23/3	 	
1070	KD1G completion of civil and structural works of MFB in Portion B-5 (1002.	5 950 days	Tue 19/11/19	Sat 25/6/22	0 days	Wed 17/8/22	Wed 17/8/22	NA	NA 2FS+1003.5 days	74	1360.5 days	0%	į		<b>♦</b> 17/8	1
1080	days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in	gon dece	Tuo 40/44/40	Mon 0/9/04	0 -1	Fri 22/10/21	Eri 00/40/04	NA.	NA 250 - 704 5 days	79	1650 5 days	100		A 22 M 2	 	i i
1080	KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (703.5 days after starting date)	630 days	Tue 19/11/19	Mon 9/8/21	0 days	rn 22/10/21	Fri 22/10/21	NA	NA 2FS+704.5 days	70	1659.5 days			<b>▼</b> 22/10	 	I I
1090	KD1I completion alternation works for existing Power House in Portion B-74 (179days after access date of B-7A)	A 150 days	Fri 4/9/20	Sun 31/1/21	1 day	Sun 28/2/21	Sun 28/2/21	Sun 28/2/21	Sun 28/2/21 13FS+179 days		0 days 10	0%			į	į
1100	KD1J completion of auxiliary facilities in Portion B-7 (811.5 days after	800 days	Tue 19/11/19	Wed 26/1/22	0 days	Mon 7/2/22	Mon 7/2/22	NA	NA 2FS+812.5 days		1551.5 days	0%		♦ 7/2		
	starting date)	oot days	100 10/11/10	1100 201722	o dayo	WOIT TO LE	WOII 77E/EE		10.2.5 0.0.2.5 0.4,5		ioono dayo		Į.	<b>▼</b> =		
1110	KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (577.5 days after starting date)	495 days	Tue 19/11/19	Sat 27/3/21	0 days	Fri 18/6/21	Fri 18/6/21	NA	NA 2FS+578.5 days	89	1781.5 days	0%	İ	→ 18/6		l I
1120	KD2B completion of air supply main alternation to existing air blower house	420 days	Tue 19/11/19	Mon 11/1/21	0 days	Fri 26/3/21	Fri 26/3/21	NA	NA 2FS+495 days		0 days	0%	Į.			
	No.2 in Portion B-8A (494 days after starting date)												į			i
1130	KD3A completion of all utilities and road works (1519 days after starting date)	1440 days	Tue 19/11/19	Sat 28/10/23	0 days	Mon 15/1/24	Mon 15/1/24	NA	NA 2FS+1520 days,328	95	840 days	0%				<b>♦</b> 15/1
1000	Completion Date (cal. Day)	1956 days	Tue 19/11/19	Thu 27/3/25	1056 days	Sat 23/7/22	Fri 13/6/25	Sat 23/7/22	NA		325.5 days	<mark>0%</mark>	1		•	
-1010	Section 1 of the Works (1,543.5 after starting date)	1460 days	Tue 19/11/19	Fri 17/11/23	0 days	Fri 9/2/24	Fri 9/2/24	NA				0%	ì			→ 9/2
1020	Section 2 of the Works (977.5 after starting date) Section 3 of the Works (1,667.5 after starting date)	900 days 1590 days	Tue 19/11/19 Tue 19/11/19	Fri 6/5/22 Tue 26/3/24	0 days 0 days	Sat 23/7/22 Wed 12/6/24	Sat 23/7/22 Wed 12/6/24	NA Wed 12/6/24	NA 2FS+978.5 days NA 2FS+1668.5 days	107 39FS+1 day,113,38FS+1 day	,	0% 9%	1		<b>♦</b> 23/7	I I
-1040	Defects Liability Period	365 days	Wed 27/3/24	Thu 27/3/25	365 days	Thu 13/6/24	Fri 13/6/25	NA				0%	i	i	i	i
-1050	Landscape Establishment Works	365 days	Wed 27/3/24	Thu 27/3/25	365 days	Thu 13/6/24	Fri 13/6/25	NA	-			0%	ļ.			
000 * F	lanned Completion Planned Completion - Key Dates (cal. day)	1686 days 1170 days	Fri 14/8/20 Fri 14/8/20	Thu 27/3/25 Sat 28/10/23	2364 days 1127 days	Mon 18/11/19 Wed 30/9/20	Fri 8/5/26 Wed 1/11/23	Mon 18/11/19 Wed 30/9/20			0 days 75 days	9%		<u>&gt;</u>		
1010 KD1A	KD1A completion of AR3 in Portion B-1 (300days after starting date)	0 days	Sat 12/9/20	Sat 12/9/20	0 days	Wed 30/9/20	Wed 30/9/20	Wed 30/9/20				0%	<b>♦</b> 30/9			
1020 KD1B	KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)	0 days	Fri 14/8/20	Fri 14/8/20	0 days	Fri 22/1/21	Fri 22/1/21	Fri 22/1/21	Fri 22/1/21 202FF,276FF,282FF,240FF,263FF		0 days 10	0%	<b>♦</b> 22	2/1		
1030 KD1C	KD1C completion of civil and structural works of Inlet Works No.1 in Portion	n 0 days	Thu 4/8/22	Thu 4/8/22	0 days	Fri 20/1/23	Fri 20/1/23	NA	NA 321FF,320FF,312FF,316FF,272FF,285F	:	-91 days	0%	1		<b>♦ 20/1</b>	
	B-2 (990days after starting date)										· .		i			İ
1040 KD1D	KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)	0 days	Mon 20/2/23	Mon 20/2/23	0 days	Sat 18/2/23	Sat 18/2/23	NA	NA 337FF,336FF		2 days	0%	ļ I		♦ 18/2	
1050 KD1E	KD1E completion of civil and structural works of Bioreactor in Portion B-4	0 days	Sat 31/12/22	Sat 31/12/22	0 days	Wed 1/11/23	Wed 1/11/23	NA	NA 369FF,377FF,371FF,373FF,376FF,372F		-304 days	0%	į.			<b>♦ 1/11</b>
1000 1/045	(1,140days after starting date)		7 054.00	7 05/1/00		144 1 00/0/00			NA 400EE		100	, , , , , , , , , , , , , , , , , , ,	į.			
1060 KD1F	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	Tue 25/1/22	Tue 25/1/22	0 days	Wed 28/9/22	Wed 28/9/22	NA	NA 409FF		-190 days	0%	I		<b>◆</b> 28/9	
1070 KD1G	KD1G completion of civil and structural works of MFB in Portion B-5	0 days	Sat 25/6/22	Sat 25/6/22	0 days	Fri 24/2/23	Fri 24/2/23	NA	NA 410FF		-192 days	0%	i		<b>♦</b> 24/2	
1080 KD1H	(950days after starting date)  KD1H completion of civil and structural works of SAS Pumping Station in	0 days	Mon 9/8/21	Mon 9/8/21	0 days	Sat 19/3/22	Sat 19/3/22	NA.	NA 440FF,439FF		-149 days	0%	1	19/3	 	I I
NDIH	Portion B-6 (630days after starting date)	Juays	mon grazi	mon drure I	o uays	Jai 13/3/22	Jai 13/3/22	INA	1 1007, 1 10-20		sujo	i	į	→ 19/3	į	İ
090 KD1I	KD1I completion alternation works for existing Power House in Portion B-74 (150days after access date of B-7A)	0 days	Sat 30/1/21	Sat 30/1/21	1 day	Fri 29/1/21	Fri 29/1/21	Fri 29/1/21	Fri 29/1/21 504FF,505FF		0 days 10	0%	<b>♦</b> 2	29 1	 	I I
1100 KD1J	KD1J completion of auxiliary facilities in Portion B-7 (800days after starting	0 days	Wed 26/1/22	Wed 26/1/22	0 days	Sat 22/10/22	Sat 22/10/22	NA	NA 476FF,475FF,488FF,487FF,481FF,480F	•	-258 days	0%	I I		<b>♦ 22/10</b>	I I
	date)				5 00,5										- = 1-	1
1110 KD2A	KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)	0 days	Sat 27/3/21	Sat 27/3/21	0 days	Wed 4/8/21	Wed 4/8/21	NA	NA 508FF,510FF		-47.8 days	0%	1	4/8	 	I I
120 KD2B	KD2B completion of air supply main alternation to existing air blower house	0 days	Thu 3/9/20	Thu 3/9/20	1 day	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21 497FF,501FF,502FF,503FF		0 days 10	0%		26/3	į	į
	No.2 in Portion B-8A (420days after starting date)												1		 	1
1130 KD3A	KD3A completion of all utilities and road works (1440days after starting date)	0 days	Sat 28/10/23	Sat 28/10/23	0 days	Sat 28/10/23	Sat 28/10/23	NA	NA 519FF		79 days	J76	l I		1	◆ 28/10
1000 *	Planned Completion Date (cal. Day)	1056 days	Fri 6/5/22	Thu 27/3/25	834 days	Tue 13/12/22	Wed 26/3/25	NA	. NA		-144 days	0%			1	1
1010 SW1	Section 1 of the Works (1,460 after starting date)	0 days	Wed 23/8/23	Wed 23/8/23	0 days	Fri 21/6/24	Fri 21/6/24	NA	NA 489FF,482FF,453FF,463FF,463FF,441F			0%	1		1	<b>♦ 21/6</b>
1020 SW2 1030 SW3	Section 2 of the Works (900 after starting date)  Section 3 of the Works (1,590 after starting date)	0 days 0 days	Fri 6/5/22 Tue 26/3/24	Fri 6/5/22 Tue 26/3/24	0 days 0 days	Tue 13/12/22 Sat 30/12/23	Tue 13/12/22 Sat 30/12/23	NA NA				0%			♦ 13/12	♦ 30/12
1040 DLP	Defects Liability Period	0 days	Thu 27/3/25	Thu 27/3/25	0 days	Wed 26/3/25	Wed 26/3/25	NA NA	1 1 1		408 days	0% 			 	¥
050	Landscape Establishment Works	0 days	Thu 27/3/25	Thu 27/3/25	0 days	Sun 29/12/24	Sun 29/12/24	NA				0%			1	<u> </u>
1000	Effects from Inclement Weather and Other Time Affected Events	0 days	NA NA	NA NA	2364 days	Mon 18/11/19	Fri 8/5/26	NA NA	**		0 days	J%		7		ī
1100	Effects to KD1C Inclement Weather to KD1C (cal. Day)	0 days 0 days	NA NA	NA	4 days 0 days	Sat 22/10/22 Wed 26/10/22	Wed 26/10/22 Wed 26/10/22	NA NA	NA NA			0% 0%	l I		■   <b>◆</b> 26/10	l I
1110	Delay and Disruption of Works before March 2021	0 days	NA NA	NA	0 days	Wed 26/10/22	Wed 26/10/22	NA NA			•	0%	į		<b>♦</b> 26/10	
1120	Delay and Disruption of Works in March 2021	3 days	NA	NA	0 days	Wed 26/10/22	Wed 26/10/22	NA	NA 64		1290.5 days	0%	I I		<b>◆</b> 26/10	
1200	Other Events to KD1C (not all)	0 days	NA NA	NA NA	4 days	Sat 22/10/22	Wed 26/10/22	NA NA	***			0%	į		1	
1210 1000	Special working arrangement due to COVID-19 in January 2020  Effects to KD1F	0 days	NA NA	NA NA	4 days	Sat 22/10/22 Wed 23/3/22	Wed 26/10/22 Wed 23/3/22	NA NA	1010			0% 	I I	♦ 23/3	1	i I
1100	Inclement Weather to KD1F (cal. Day)	0 days	NA	NA NA	0 days	Wed 23/3/22 Wed 23/3/22	Wed 23/3/22 Wed 23/3/22	NA NA				0%	į	◆ 23/3	1	1
1110	Delay and Disruption of Works before March 2021	0 days	NA	NA	0 days	Wed 23/3/22	Wed 23/3/22	NA	NA 26			0%	ĺ	♦ 23/3		İ
1120	Delay and Disruption of Works in March 2021	3 days	NA	NA	0 days	Wed 23/3/22	Wed 23/3/22	NA	NA 70		1507.5 days	0%		<b>♦</b> 23/3	 	1
	Effects to KD1G	0 days	NA	NA	0 days	Wed 17/8/22	Wed 17/8/22	NA	NA		1360.5 days	0%	i	1 i i i	<b>♦ 17/8</b>	į
1000	Inclement Weather to KD1G (cal. Day)	0 days	NA	NA	0 days	Wed 17/8/22	Wed 17/8/22	NA			, i	0%			<b>♦ 17/8</b>	I I
1100										70	4000 F days	no/ I		The second secon	4 48 9	
- <b>1100</b> -1110	Delay and Disruption of Works before March 2021	0 days	NA	NA	0 days	Wed 17/8/22	Wed 17/8/22	NA	NA 27			0%	1		↑ 17/8	l l
-1100 -1110 -1110 -1120		0 days 3 days <b>0 days</b>	NA NA	NA NA	0 days 0 days 0 days	Wed 17/8/22 Wed 17/8/22 Fri 22/10/21	Wed 17/8/22 Wed 17/8/22 Fri 22/10/21	NA NA	NA 74		1360.5 days	0%	 	       <b>♦ 22/10</b>	◆ 17/8 ◆ 17/8	I I

Data Date: 31/03/2021

A - st. de . Inc	g Plant - Main Works Stage 1	lastere - last	DE 2 ::	Description of	D " 5" : :	P "	01 :	Ewit 1	t 1 Ot - :	at al Filtri	D d	lo.	T-4-1 01 1	Dieli Allemane	
Activity ID Key Date	Task Name	Inclement PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish Ad	tual Start Ad	ctual Finish	Predecessors	Successors	Total Slack	Risk Allowance % Complete	
T411 4400	L. L. W. H. L. KDHI ( L. D. )	CE no. (NCE no.)	0.4	NA	NA	0.4	F-i 00/40/04	F-i 00/40/04	NA.	NA			4050 5 days	uarter Jul	1st Quarter
F <b>1H-1100</b> F1H-1110	Inclement Weather to KD1H (cal. Day)  Delay and Disruption of Works before March 2021		0 days 0 days	NA NA	NA NA	0 days 0 days	Fri 22/10/21 Fri 22/10/21	Fri 22/10/21 Fri 22/10/21	NA NA	NA NA 2	28	79	1659.5 days	0%	◆ 22/10 ◆ 22/10
1H-1110 1H-1120	Delay and Disruption of Works before watch 2021  Delay and Disruption of Works in March 2021		3 days	NA NA	NΔ	0 days	Fri 22/10/21	Fri 22/10/21	NA NA	NA I		//5	1659.5 days	0%	4 22/10
1H-1120 1H-1000	Effects to KD1J		0 days	NA NA	NA NA	0 days	Mon 18/11/19	Mon 18/11/19	NA NA	NA NA	70		2364 days	0%	▼ 22/10 ● 18/11
1H-1000	Inclement Weather to KD1J (cal. Day)		0 days	NA NA	NA NA	0 days	Mon 18/11/19	Mon 18/11/19	NA NA	NA NA			2364 days	0%	<b>● 18/11</b>
1H-1110	Delay and Disruption of Works before March 2021		0 days	NA	NA	0 days	Mon 18/11/19	Mon 18/11/19	NA	NA		83	2364 days	0%	<b>● 18/11</b>
1H-1120	Delay and Disruption of Works in March 2021		0 days	NA	NA	0 days	Mon 18/11/19	Mon 18/11/19	NA	NA 8	82		2364 days	0%	<u>0 18/11</u>
T2A-1000	Effects to KD2A		0 days	NA	NA.	4 days	Fri 18/6/21	Tue 22/6/21	NA NA	NA			1781.5 days	0%	
T2A-1100	Inclement Weather to KD2A (cal. Day)		0 days	NA NA	NA NA	0 days	Tue 22/6/21	Tue 22/6/21	NA	NA NA			1781.5 days	0%	
T2A-1110	Delay and Disruption of Works before March 2021		0 days	NA	NA	0 days	Tue 22/6/21	Tue 22/6/21	NA	NA 8	89	87	1781.5 days	0%	
T2A-1120	Delay and Disruption of Works in March 2021		3 days	NA	NA	0 days	Tue 22/6/21	Tue 22/6/21	NA	NA 8			1781.5 days	0%	
ET2A-1200	Other Events to KD2A (not all)		0 days	NA .	NA	4 days	Fri 18/6/21	Tue 22/6/21	NA NA	NA.			1781.5 days	0%	
ET2A-1210	Special working arrangement due to COVID-19 in January 2020		0 days	NA	NA	4 days	Fri 18/6/21	Tue 22/6/21	NA NA	NA S	31	86	1781.5 days	0%	
ET3A-1000	Effects to KD3A		0 days	NΔ	NΔ	4 days	Tue 16/1/24	Fri 19/1/24	NA NA	NA.			840 days	0%	i i i i i i
ET3A-1100	Inclement Weather to KD3A (cal. Day)		0 days	NA	NA	0 days	Fri 19/1/24	Fri 19/1/24	NA	NA			840 days	0%	. ↓ 19/1
ET3A-1110	Delay and Disruption of Works before March 2021		0 days	NA	NA	0 days	Fri 19/1/24	Fri 19/1/24	NA	NA S	95	93	840 days	0%	
ET3A-1120	Delay and Disruption of Works in March 2021		3 days	NA	NA	0 days	Fri 19/1/24	Fri 19/1/24	NA	NA S	92		840 days	0%	
ET3A-1200	Other Events to KD3A (not all)		0 days	NA	NA	4 days	Tue 16/1/24	Fri 19/1/24	NA	NA			840 days	0%	
ET3A-1210	Special working arrangement due to COVID-19 in January 2020		0 days	NA	NA	4 days	Tue 16/1/24	Fri 19/1/24	NA NA	NA S	33	92	840 days	0%	
ETS1-1000	Effects to Section 1 of the Works		0 days	NΔ	NA.	443.5 days	Wed 19/2/25	Fri 8/5/26	NA NA	NA.		·-	0 days	0%	
ETS1-1100	Inclement Weather to Section 1 of the Works (cal. Day)		0 days	NA	NA	0 days	Fri 8/5/26	Fri 8/5/26	NA	NA NA			0 days	0%	i i i i i i i
ETS1-1110	Delay and Disruption of Works before March 2021		0 days	NA	NA	0 days	Fri 8/5/26	Fri 8/5/26	NA	NA :	101FS+439.5 days	99	0 days	0%	
ETS1-1120	Delay and Disruption of Works in March 2021		3 days	NA	NA	0 days	Fri 8/5/26	Fri 8/5/26	NA	NA S			0 days	0%	i i i i i i i
ETS1-1120	Other Events to Section 1 of the Works (not all)		0 days	NA	NA NA	4 days	Wed 19/2/25	Sun 23/2/25	NA NA	NA NA			0 days	0%	
ETS1-1200 ETS1-1210	Special working arrangement due to COVID-19 in January 2020		0 days	NA NA	NA NA	4 days	Wed 19/2/25 Wed 19/2/25	Sun 23/2/25	NA NA		35FS+376 days	98FS+439.5 days	0 days	0%	
ETS1-1210 ETS2-1000	Effects to Section 2 of the Works		0 days	NA NA	NA NA	4 days	Sat 23/7/22	Wed 27/7/22	NA NA	NA .	0.0.0 uaya	JOI OTTOJ.J UdyS	1381.5 days	0%	
ETS2-1000 ETS2-1100	Inclement Weather to Section 2 of the Works (cal. Day)		0 days	NA	NA	4 days 0 days	Sat 23/7/22 Wed 27/7/22	Wed 27/7/22 Wed 27/7/22	NA NA	NA NA			1381.5 days	0%	
ETS2-1100 ETS2-1110	Delay and Disruption of Works before March 2021		0 days	NA	NA	0 days	Wed 27/7/22	Wed 27/7/22	NA NA	NA 1	107	105	1381.5 days	0%	<b>♦</b> 27/7
ETS2-1110 ETS2-1120	Delay and Disruption of Works in March 2021		3 days	NA NA	NA NA	0 days	Wed 27/7/22	Wed 27/7/22	NA NA	NA 1			1381.5 days	0%	
	Other Events to Section 2 of the Works (not all)		0 days	NΔ	NA NA	4 days	Sat 23/7/22	Wed 27/7/22	NA NA	NA NA			1381.5 days	070	
ETS2-1200 ETS2-1210	Special working arrangement due to COVID-19 in January 2020			NΔ	NA NA	4 days	Sat 23/7/22 Sat 23/7/22	Wed 27/7/22 Wed 27/7/22	NA NA	NA NA S	36	104	1381.5 days	0%	
ETS2-1210 ETS3-1000	Effects to Section 3 of the Works		0 days	NA.	NA NA		Sat 23/7/22 Wed 12/6/24	Sun 16/6/24	NA NA	NA :	~~	104		U%	og i ji i ' i i i i i i i i i i i i i i i
ETS3-1000 ETS3-1100	Inclement Weather to Section 3 of the Works (cal. Day)		0 days 0 days	NA NA	NA NA	4 days 0 days	Sun 16/6/24	Sun 16/6/24 Sun 16/6/24	NA NA	NA NA			691.5 days 691.5 days	0%	
ETS3-1100 ETS3-1110	Delay and Disruption of Works before March 2021		0 days	NA	NA NA	0 days	Sun 16/6/24	Sun 16/6/24	NA NA	NA 1	112	111	691.5 days	0%	<b>♦</b> 16/6
ETS3-1110	Delay and Disruption of Works in March 2021		3 days	NA	NA.	0 days	Sun 16/6/24	Sun 16/6/24	NA NA	NA 1		***	691.5 days	076	
ETS3-1120	Other Events to Section 3 of the Works (not all)			NA NA	NA.	4 days	Wed 12/6/24	Sun 16/6/24	NA NA	NA NA	110		691.5 days	0.76	
ETS3-1200 ETS3-1210	Special working arrangement due to COVID-19 in January 2020		0 days 0 days	NA NA	NA.	4 days	Wed 12/6/24	Sun 16/6/24	NA NA	NA S	07	110	691.5 days	0%	
					IVA	- 1					31	110		0 %	
SUBS-1000	Submissions (cal.day) Subletting Package		1564 days 96 days	Mon 18/11/19 Mon 18/11/19	Wed 28/2/24 Fri 21/2/20	1956 days 562 days	Mon 18/11/19 Mon 18/11/19	Wed 26/3/25 Tue 1/6/21	Mon 18/11/19 Mon 18/11/19	NA NA			408 days 638 days	76%	
SUBS-1010	Prepare & submit subletting procedure		12 days	Mon 18/11/19	Fri 29/11/19	12 days	Mon 18/11/19	Fri 29/11/19	Mon 18/11/19	Fri 29/11/19	2	117	0 days	100%	
SUBS-1020	PM review and accept subletting procedure		15 days	Sat 30/11/19	Wed 11/12/19	12 days	Sat 30/11/19	Wed 11/12/19	Sat 30/11/19	Wed 11/12/19	116	138,118,121,120,119	0 days	100%	
SUBS-1030	Subletting for demolition works		24 days	Thu 12/12/19	Sat 4/1/20	93 days	Tue 17/12/19	Wed 18/3/20	Tue 17/12/19	Wed 18/3/20		328,443,286,382,504,347	0 days	100%	
SUBS-1040 SUBS-1050	Subletting for UU diversion for Inlet Works No.1  Subletting for Inspection pit excavation		24 days 0 days	Thu 12/12/19 NA	Sat 4/1/20	78 days 56 days	Fri 10/1/20 Thu 19/12/19	Fri 27/3/20 Wed 12/2/20	Fri 10/1/20 Thu 19/12/19	Fri 27/3/20 1 Wed 12/2/20 1		202 204,122	0 days 0 days	100%	
SUBS-1060	Subletting for Preliminary Works (topographic surveying)		14 days	Thu 12/12/19	Wed 25/12/19	54 days	Fri 20/12/19	Tue 11/2/20	Fri 20/12/19	Tue 11/2/20			0 days	100%	
SUBS-1070	Subletting for AR3 access road		24 days	Thu 12/12/19	Sat 4/1/20	0 days	Fri 13/12/19	Tue 11/2/20	Fri 13/12/19	Tue 11/2/20		123,200	0 days	100%	
SUBS-1080	Subletting for pre-drilling works		24 days	Thu 12/12/19	Sat 4/1/20	38 days	Thu 6/2/20	Fri 20/3/20	Thu 6/2/20	Fri 20/3/20	121,122	434,331,394,124	0 days	100%	
SUBS-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		465,448,478,472	0 days	100%	- 🛨 i i i i i i i
SUBS-1100 SUBS-1110	Subletting for independent BIM consultant  Subletting for independent BIM services		24 days 0 days	Thu 12/12/19 NA	4/1/120 NA	0 days 15 days	Wed 11/12/19 Tue 14/1/20	Thu 23/1/20 Wed 26/2/20	Wed 11/12/19 Tue 14/1/20	Thu 23/1/20 1 Wed 26/2/20 1		183 183	0 days	100%	- T
SUBS-1110	Subletting for Design, Supply & Install of Temporary Activated Carbon		0 days	NA NA	NA NA	0 days	Fri 13/12/19	Tue 11/2/20	Fri 13/12/19	Tue 11/2/20		128,129	0 days	100%	
	Deodorization Units (E&M Works)														
SUBS-1130	Subletting for pre-bored H pile works		36 days	Thu 12/12/19	Thu 16/1/20	45 days	Sun 5/7/20	Tue 18/8/20	Sun 5/7/20			332,395,435,300	0 days	100%	
SUBS-1140 SUBS-1150	Subletting for Sheetpile installation works  Subletting for ELS works for Inlet Works No.1		0 days 48 days	NA Sun 5/1/20	NA Fri 21/2/20	45 days 85 days	Tue 1/9/20 Fri 16/10/20	Thu 15/10/20 Fri 8/1/21	Tue 1/9/20 Fri 16/10/20	Thu 15/10/20 1 Fri 8/1/21 1		333,367,437,130,131	0 days 0 days	100%	
SUBS-1160	Subletting for ELS works for Membrance Facilities Building and other		48 days	Sun 5/1/20	Fri 21/2/20	85 days	Fri 16/10/20	Fri 8/1/21	Fri 16/10/20	Fri 8/1/21		335,368,438,132,133,134,		100%	
	buildings		,									, , , , , , , , , , , , , , , , , , , ,			
SUBS-1170	Subletting for structural works for Inlet Works Building		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	NA	NA 1		308	313 days	0%	
SUBS-1180	Subletting for structural works for Primary Sedimentation Tanks		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	NA	NA 1		336	610 days	0%	
SUBS-1190 SUBS-1200	Subletting for structural works for Bioreactors  Subletting for structural works for Membrance Facilities Building		48 days 48 days	Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 Tue 28/1/20	48 days 48 days	Sat 9/1/21 Sat 9/1/21	Thu 25/2/21 Thu 25/2/21	NA NA	NA 1		369 405	425 days 203 days	0%	
SUBS-1210	Subletting for structural works for SAS pumping house and ancillary		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	NA NA	NA 1		137	638 days	0%	
	structures														
SUBS-1220	Subletting for ABWF works		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Fri 26/2/21	Wed 14/4/21	NA	NA 1		322,338,378,441,463,469,		0%	
SUBS-1230 SUBS-1240	Subletting for Process Pipeworks, Utilities and Roadworks  Subletting for Landscape Hardworks and Softworks		48 days 48 days	Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 Tue 28/1/20	150 days 48 days	Fri 22/5/20 Thu 15/4/21	Sun 18/10/20 Tue 1/6/21	Fri 22/5/20 NA	Sun 18/10/20 1		497,508,514,515,516,517,8 522,523,524	638 days	100%	
SUBS-1250	Subletting for Trial dewatering works and installation of additional stop log	s	0 days	NA	NA	48 days 15 days	Tue 15/9/20	Tue 1/6/21	Tue 15/9/20			343	0 days	100%	
"	at BR2 connon channel due to malfucntioned of existing penstock at FST no. 5 and 7 (EWN 055)		1			,-							1		
ouno 4555															
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		0 days	NA	NA	14 days	Mon 21/9/20	Sun 4/10/20	Mon 21/9/20	Sun 4/10/20		419	0 days	100%	
	leachate Pump station switch room (PMI 039)														
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		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		435	0 days	100%	
	(PPMI 041)		o dayo			31 uays	WIOT1 21/3/20			••ou 2 1/10/20		100	Jaya	100%	
SUBS-1300	Subletting for Demolition of Existing Pillar box and its concrete plinth (CE		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		421	0 days	100%	
CUIDO 4040	Outline to Formation 1		0.4	NA.	N/A		M. 04	14/	14. 04.77	14/ 1 0 4 / 1 - 1			0.4-		
SUBS-1310	Subletting for Excavation to locate existing underground cable near SAS Pump Station (PPMI 038)		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20			0 days	100%	
SUBS-1320	Subletting for Diversion of pumping system sewerage (PPMI 083)		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		426	0 days	100%	
UBA-1000	Statutory Submission, Submission and Approval		1564 days	Mon 18/11/19	Wed 28/2/24	1956 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA			408 days	45%	
UBA-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	2	59FF	350 days	19%	
URA-1020			24 days	Mon 19/11/10	Wod 11/10/10	24	Mon 19/44/40	Wed 11/10/10	Mon 19/11/10	Worl 11/10/10	9	110 101 100	0 days	4000/	
UBA-1020 UBA-1030	Prepare and submit Subcontractor Management Plan (SMP)  Prepare and submit Interface Management Plan		24 days 36 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Mon 23/12/19	24 days 36 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Mon 23/12/19	Mon 18/11/19 Mon 18/11/19			118,121,120	0 days 0 days	100%	
UBA-1030	Prepare and submit the TTA plans inside Treatment Plant for UU diversio	n	24 days	Mon 18/11/19	Wed 11/12/19	24 days	Mon 18/11/19	Wed 11/12/19				191	0 days	100%	
	and buildings construction														
UBA-1050	Prepare and submit method statement for UU diversion for Inlet Works New	5.1	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	154	0 days	100%	•i i i i i i i i i i i i i i i i i i i
	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	153	203,204	0 days	100%	
SLIBA-1000	PM review and accept the method statement  Prepare and submit combine underground services drawing for PM's review	ew .	12 days 24 days	Sat 30/11/19 Thu 26/12/19	Wed 11/12/19 Sat 18/1/20	0 days 23 days	Sat 30/11/19 Thu 26/12/19	Wed 11/12/19 Sat 18/1/20	Sat 30/11/19 Thu 26/12/19	Wed 11/12/19 1 Sat 18/1/20 1		203,204	0 days 0 days	100%	
SUBA-1060 SUBA-1070		1	,-				,							135.5	
	the alignment														
			24 days 24 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Wed 11/12/19	66 days 197 days	Mon 18/11/19 Mon 18/11/19	Wed 22/1/20 Mon 1/6/20	Mon 18/11/19 Mon 18/11/19	Wed 22/1/20 2 Mon 1/6/20 2		382,328,443,286,504	0 days 0 days	100%	•

Data Date: 31/03/2021

	g Plant - Main Works Stage 1	mont DMI & CE no	Receive Duration	Reseline Stort	Pagalina Finish	Duration	Stort	Finish A		Works Programme (Status Date: 31/03/2021)	Cugagagaga	Total Clask	Diak Allaumana 9/ Complete	
Activity ID Key Date	Weath CE no	her (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	ctual Start	Actual Finish Predecessors	Successors	Total Slack	Risk Allowance % Complete	uarter 1st Quarter 1st Quarter 1st Quarter 1st Quarter 1st Quarter
SUBA-1100	Prepare and submit method statements to MTRC regarding the works within	no.)	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	328,443,504,347	0 days	100%	July January July January July January July January July January July
SUBA-1110	railing protection boundary  Prepare and submit & approve Safety Management Plan		24 dove	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%	
UBA-1110	Prepare and submit & approve safety management Flan  Prepare and submit Excavation and lateral support (ELS) proposal		24 days 24 days	Mon 10/2/20	Wed 4/3/20	128 days	Mon 10/2/20	Tue 16/6/20	Mon 10/2/20	Tue 16/6/20 2		0 days	100%	
JBA-1130	Prepare and submit Dewatering proposal for basement construction		24 days	Mon 10/2/20	Wed 4/3/20	165 days	Mon 10/2/20	Thu 23/7/20	Mon 10/2/20	Thu 23/7/20 2		0 days	100%	
IBA-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 6/3/20 188		0 days	100%	%
JBA-1150	Prepare and submit Settlement and movement monitoring proposal of		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 188FS+120 days		0 days	100%	% !
IDA 4400	existing structures/ services			F: 474.00	10,000	00.1		14 40/0/00					1000	
UBA-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	Prepare of RSE and structural design for alternation and additional (A&A)		180 days	Mon 18/10/21	Fri 15/4/22	180 days	Mon 18/10/21	Fri 15/4/22	NA	NA	506	332 days	0%	96
SUBA-1180	works at Membrane Facilities Building No.1		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	504	0 days	100%	
30BA-1100	Prepare of RSE and structural design for alternation and additional (A&A) works at Main Power House		44 udys	Wed 15/7/20	1110 3/9/20	60 days	WOT 0/7/20	1110 3/3/20	WOT 0/7/20	11tu 3/9/20	504	0 days	10076	70
SUBE-1000	Environmental Aspect Submissions		45 days	Mon 18/11/19	Wed 1/1/20	81 days	Mon 18/11/19	Thu 6/2/20	Mon 18/11/19	Thu 6/2/20		0 days	100%	
SUBE-1010	Prepare, submit & approve Site Management Plan for Trip Tricket System		45 days	Mon 18/11/19	Wed 1/1/20	66 days	Mon 18/11/19	Wed 22/1/20	Mon 18/11/19	Wed 22/1/20 2		0 days	100%	% I I I I I I I I I I I I I I I I I I I
SUBE-1020	Prepare, submit & approve Waste Management Plan		45 days	Mon 18/11/19	Wed 1/1/20	81 days	Mon 18/11/19	Thu 6/2/20	Mon 18/11/19	Thu 6/2/20 2		0 days	100%	% · · · · · · · · · · · · · · · · · · ·
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 SUBP-1010	Procurement  Prepare and submit the Procurement Procedure		731 days 12 days	Mon 18/11/19 Mon 18/11/19	Wed 17/11/21 Fri 29/11/19	648 days 2 days	Mon 18/11/19 Mon 18/11/19	Thu 26/8/21 Tue 19/11/19	Mon 18/11/19 Mon 18/11/19	NA Tue 19/11/19 2	173	642 days 0 days	81%	
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		174,175,176,177,178,179,1		100%	
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		202,497,515,516,518,517,5		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 173	315,319	222 days	0%	%
SUBP-1050 SUBP-1060	Prepare, submit and approve the concrete mix material  Prepare, submit and approve the rebar material		48 days 48 days	Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 Tue 28/1/20	90 days 49 days	Mon 3/2/20 Sat 23/5/20	Sat 2/5/20 Fri 10/7/20	Mon 3/2/20 Sat 23/5/20	Sat 2/5/20 173 Fri 10/7/20 173	308,369,405 308,369,405	0 days 0 days	100%	
SUBP-1070	Prepare, submit and approve the redal material  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		308,369,405	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 173	322,338,378,441,463,469,4	8: 773 days	0%	
SUBP-1090 SUBP-1100	Prepare, submit and approve the protective lining to concrete  Prepare, submit and approve the multi-part covers		0 days	NA NA	NA NA	48 days	Tue 1/9/20 Tue 5/5/20	Sun 18/10/20 Mon 25/5/20	Tue 1/9/20 Tue 5/5/20		308,369,405	0 days 0 days	100%	
SUBP-1100 SUBB-1000	Prepare, submit and approve the multi-part covers  BIM		0 days 1205 days	Thu 6/2/20	Wed 28/2/24	21 days 1562 days	Mon 18/11/19	Fri 28/2/25	Mon 18/11/19	Mon 25/5/20 1/3		372 days	100%	
SUBB-1010	Prepare, submit and approve the proposal of details of Common data		48 days	Thu 6/2/20	Wed 1/4/20	37 days	Mon 18/11/19	Wed 1/4/20	Mon 18/11/19		184	0 days	100%	
	environment (CDE)		1484 do:	Thu 6/0/00	Wed 20/0/04	1454	Thu 0/4/00	Eri 00/000	Th 0.4.0	NA 400		372 do:		
C-1000 *	Prepare and submit BIM submission  Construction Works (Working day)		1484 days 1957 days	Thu 6/2/20 Mon 18/11/19	Wed 28/2/24 Thu 27/3/25	1451 days 1869 days?	Thu 2/4/20 Mon 18/11/19	Fri 28/2/25 Sun 29/12/24	Thu 2/4/20 Mon 18/11/19	NA 183 NA		372 days 495 days?	20%	770 %
CPW-1000	Preliminary Works		109 days	Mon 18/11/19	Thu 5/3/20	121 days	Mon 18/11/19	Tue 17/3/20	Mon 18/11/19	***		0 days	100%	%
CPW-1000	Initial Survey		24 days	Mon 18/11/19	Sat 14/12/19	10 days	Mon 18/11/19	Thu 28/11/19	Mon 18/11/19		188	0 days	100%	
CPW-2000 CPW-3000	Condition Survey Installation of Monitoring Markers		30 days 26 days	Fri 27/12/19 Wed 5/2/20	Tue 4/2/20 Thu 5/3/20	89 days 78 days	Mon 18/11/19 Fri 29/11/19	Fri 6/3/20 Thu 5/3/20	Mon 18/11/19 Fri 29/11/19	Fri 6/3/20 121,187 Thu 5/3/20 188	189,162,163FS+120 days,1	9 0 days 0 days	100%	
CPW-4000	Tree Felling Works	22, 235	0 days	NA NA	NA	9 days	Sat 7/3/20	Tue 17/3/20	Sat 7/3/20			0 days	100%	
CAR-0000 *	Access Road (AR3), B-1		193 days	Mon 20/1/20	Sat 12/9/20	238 days	Thu 12/12/19	Wed 30/9/20	Thu 12/12/19			0 days	100%	% I
CAR-1000	Site setup and clearance wroks	05	28 days	Mon 20/1/20	Mon 24/2/20	38 days	Mon 20/1/20	Fri 6/3/20	Mon 20/1/20		193	0 days	100%	<u> </u>
CAR-1001	Awaiting for AECOM instruction for alignment confirmation for road works	055	0 days	NA	NA	5 days	Mon 17/2/20	Thu 12/3/20	Mon 17/2/20	Thu 12/3/20 192	194	0 days	100%	% '
CAR-1002	Additional Works in Access Road AR3 to Settle Left-in Material by Contract	215-1	0 days	NA	NA	4 days	Thu 21/5/20	Mon 25/5/20	Thu 21/5/20	Mon 25/5/20 193	195	0 days	100%	%
	DC/2016/07													
CAR-2000 CAR-2000a	Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3	215-2	76 days 0 days	Fri 6/3/20 NA	Tue 9/6/20 NA	75 days 20 days	Sat 7/3/20 Tue 14/7/20	Tue 9/6/20 Wed 5/8/20	Sat 7/3/20 Tue 14/7/20		196 197	0 days 0 days	100%	
CAR-2000b	Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and	215	0 days	NA	NA	7 days	Fri 28/8/20	Fri 4/9/20	Fri 28/8/20		198	0 days	100%	
	Associated Concreting Works in Portion B-1													
CAR-2001 CAR-2002	Diversion of Existing Underground Cables in Portion B-1A  Additional U-channel, beam barrier and footway concrete pavement	036	0 days 0 days	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		200	0 days 0 days	100%	
	Additional G-Chainlet, beam barrier and rootway concrete paverners	033	o days		TVA .						42FF	0 days	100%	
CAR-3000 KD1A	Roadworks		80 days	Wed 10/6/20	Sat 12/9/20	133 days	Fri 24/4/20	Wed 30/9/20	Fri 24/4/20	1100 0010120 122,100,100	42FF		100 /0	
CIW-0000 *	Inlet Works No.1, B-2		854 days	Mon 6/1/20	Mon 21/11/22	596 days	Tue 26/11/19	Sat 27/11/21	Tue 26/11/19	NA		0 days	69%	
CIW-0000 *										NA NA 174,119	42FF	-		
CAR-3000 KD1A CIW-0000 *	Inlet Works No.1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)		854 days 180 days	Mon 6/1/20 Mon 6/1/20	Mon 21/11/22 Fri 14/8/20	596 days 459 days	Tue 26/11/19 Tue 26/11/19	Sat 27/11/21 Wed 16/6/21	Tue 26/11/19 Tue 26/11/19	NA NA 174,119	43FF	0 days 75 days	69%	96 96
CIW-0000 * CIW-1000 CIW-1100	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenify existing UU arrangement		854 days 180 days	Mon 6/1/20 Mon 6/1/20 Mon 6/1/20	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20	596 days 459 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20	Tue 26/11/19	NA NA 174,119 Sat 18/1/20 154	43FF 204SS,206	0 days	69% 66%	96
CIW-1000 *	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rilsing Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pilts to locate the collection points Installation and Commissioning of Temporary Activated Carbon		854 days 180 days	Mon 6/1/20 Mon 6/1/20	Mon 21/11/22 Fri 14/8/20	596 days 459 days	Tue 26/11/19 Tue 26/11/19	Sat 27/11/21 Wed 16/6/21	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19	NA NA 174,119	43FF	0 days 75 days 0 days	69%	96
CIW-1000 * CIW-1100 CIW-1200 CIW-1300	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rilsing Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works		854 days 180 days 12 days 24 days 0 days	Mon 6/1/20 Mon 6/1/20 Mon 6/1/20	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20	596 days 459 days 0 days 98 days	Tue 26/11/19  Tue 26/11/19  Fri 13/12/19  Mon 6/1/20  Wed 11/3/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20	NA NA 174,119 Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20	43FF 204SS,206 222,241	0 days 0 days 0 days 0 days 0 days	69% 66% 100% 100%	96 96 97 97 98
CIW-1000 CIW-1100 CIW-1200 CIW-1300 CIW-1310	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth		854 days 180 days 12 days 24 days 0 days	Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 NA	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20	596 days 459 days 0 days 98 days 24 days	Tue 26/11/19  Tue 26/11/19  Fri 13/12/19  Mon 6/1/20  Wed 11/3/20	Sat 27/11/21  Wed 16/6/21  Sat 18/1/20  Tue 10/3/20  Sat 11/7/20  Wed 8/4/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20	NA NA 174,119 Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20 Wed 8/4/20 203	43FF 204SS,206 222,241 207	0 days 0 days 0 days 0 days 0 days 0 days	69% 66% 100% 100% 100%	76 96 97 97 97 97 97 97
CIW-1000 CIW-1100 CIW-1200 CIW-1310 CIW-1320	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rilsing Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works		854 days 180 days 12 days 24 days 0 days	Mon 6/1/20 Mon 6/1/20 Mon 6/1/20	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20	596 days 459 days 0 days 98 days	Tue 26/11/19  Tue 26/11/19  Fri 13/12/19  Mon 6/1/20  Wed 11/3/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206	43FF 204SS,206 222,241	0 days 0 days 0 days 0 days 0 days	69% 66% 100% 100%	9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9
CIW-1000 CIW-1100 CIW-1200 CIW-1300 CIW-1310 CIW-1320 CIW-1330 CIW-1340 CIW-1340	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth  Installation of Deodorizer		854 days 180 days 12 days 24 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA	596 days 459 days 0 days 98 days 24 days 40 days	Tue 26/11/19  Tue 26/11/19  Fri 13/12/19  Mon 6/1/20  Wed 11/3/20  Wed 11/3/20  Thu 9/4/20	Sat 27/11/21  Wed 16/6/21  Sat 18/1/20  Tue 10/3/20  Sat 11/7/20  Wed 8/4/20  Sat 30/5/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207	43FF 204SS,206 222,241 207 208	0 days 75 days 0 days 0 days 0 days 0 days 0 days	69% 66% 100% 100% 100%	7% 7% 7% 7% 7% 7% 7% 7% 7% 7% 7% 7% 7% 7
CIW-1000 CIW-1100 CIW-1200 CIW-1300 CIW-1310 CIW-1320 CIW-1330 CIW-1340 CIW-1340	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth  Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete		854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Non 6/1/20  NA  NA  NA	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207	43FF 204SS,206 222,241 207 208	0 days 75 days 0 days 0 days 0 days 0 days 0 days 0 days	69% 66% 100% 100% 100% 100%	96 96 97 97 97 97 97 97 97 97 97 97 97 97 97
CIW-1000 CIW-1100 CIW-1200 CIW-1300 CIW-1310 CIW-1320 CIW-1340 CIW-1340	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rilsing Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit		854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207	43FF 204SS,206 222,241 207 208	0 days 75 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	69% 66% 100% 100% 100% 100% 100%	96 96 97 97 97 97 97 97 97 97 97 97 97 97 97
CIW-1000  CIW-1100  CIW-1200  CIW-1300  CIW-1310  CIW-1310  CIW-1320  CIW-1340  CIW-1340	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth  Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete		854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 11/7/20 208FS-1 day NA	43FF 204SS,206 222,241 207 208	0 days 75 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	69% 66% 100% 100% 100% 100% 100%	96 96 96 96 96 96 97 96 97 97 98
CIW-1000  CIW-1100  CIW-1100  CIW-1200  CIW-1300  CIW-1310  CIW-1320  CIW-1340  CIW-1400  CIW-1400	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth  Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage	41	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Non 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days?	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120  Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206  Wed 17/6/20 207 Sat 11/7/20 208FS-1 day  NA  Wed 16/12/20 Tue 17/3/20 211	43FF  204SS,206  222,241  207  208  209FS-1 day	O days O days O days O days O days O days O days O days O days O days O days O days O days O days O days	69% 66% 1100% 1100% 1100% 1100% 1100% 1100% 1100%	9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9
CIW-1000  CIW-1100  CIW-1200  CIW-1200  CIW-1300  CIW-1310  CIW-1330  CIW-1340  CIW-1440  CIW-14405  CIW-1420	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rilsing Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer  Testing & commissioning Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted DN250 sludge pipe	41 41 41 24	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days?	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Tue 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 1/6/20 Thu 19/1/20 Mon 9/3/20 Thu 19/11/20 Thu 19/11/20 Thu 19/11/20 Thu 19/11/20 Tue 31/3/20	Sat 27/11/21 Wed 16:6/21  Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Wed 17/6/20 Mon 13/9/21  Wed 16/12/20 Tue 17/3/20 Thu 7/5/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Thu 19/11/20 Thu 19/13/20 Tue 31/3/20 Tue 31/3/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20 Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/7/20 208FS-1 day NA  Wed 16/12/20 Tue 17/3/20 211 Thu 7/5/20 212	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215	0 days 75 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	69% 66% 100% 100% 100% 100% 100% 100% 100%	96 96 97 98 98 98 98 98 98 98 98 98 98 98 98 98
CIW-1000  CIW-1100  CIW-1100  CIW-1200  CIW-1300  CIW-1310  CIW-1320  CIW-1330  CIW-1340  CIW-1405  CIW-1405  CIW-1410  CIW-1420  CIW-1421	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth  Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage	41 41 41 24 32	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  Thu 6/2/20  NA  NA  NA	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days?	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120  Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206  Wed 17/6/20 207 Sat 11/7/20 208FS-1 day  NA  Wed 16/12/20 Tue 17/3/20 211	43FF  204SS,206  222,241  207  208  209FS-1 day	O days O days O days O days O days O days O days O days O days O days O days O days O days O days O days	69% 66% 1100% 1100% 1100% 1100% 1100% 1100% 1100%	9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9
CIW-1000  CIW-1100  CIW-1100  CIW-1200  CIW-1300  CIW-1310  CIW-1320  CIW-1340  CIW-1440  CIW-1440  CIW-14405  CIW-1422  CIW-1422  CIW-1422  CIW-1422  CIW-1423	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rilsing Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenlify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth  Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage  Diversion of uncharted 2" water pipe  Additional Underground Utility Scanning for existing sludge pipe  HV Cable Diversion for Inlet Works	41 24 32 84	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 22 days 451 days?	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Tue 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Wed 15/4/20 Sat 18/4/20 Sat 10/10/20	Sat 27/11/21 Wed 16:6/21  Sat 18/1/20 Tue 10/3/20 Sat 11/7/20  Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Wed 16/12/20  Mon 13/9/21  Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Fri 24/4/20 Sat 11/4/20 Wed 24/3/21	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 10/10/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20 Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/20 208FS-1 day NA  Wed 161/2/20 Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/20 213 Sat 184/20 213 Wed 24/3/21	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215	0 days 75 days 0 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	96 96 97 98 98 98 98 98 98 98 98 98 98 98 98 98
CIW-1000  CIW-1100  CIW-1100  CIW-1200  CIW-1300  CIW-1310  CIW-1320  CIW-1330  CIW-1340  CIW-1440  CIW-1440  CIW-1420  CIW-1420  CIW-1422  CIW-1422  CIW-1422  CIW-1422  CIW-1423	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage  Diversion of uncharted DN250 sludge pipe  Diversion of uncharted 2 water pipe  Additional Underground Utility Scanning for existing sludge pipe	41 41 41 24 32 84 236	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Na  NA  NA  NA  NA  NA  NA  NA  NA  NA	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 24 days 27 days 8 days 27 days 1 days 1 days 1 days 1 days 1 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 31/3/20 Wed 15/4/20 Sat 18/4/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Sat 18/1/20 Sat 11/7/20 Sat 30/5/20 Wed 8/4/20 Sat 30/5/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Tue 17/3/20 Sat 18/4/20 Sat 18/4/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Used 15/4/20 Sat 18/4/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20 Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/20 208FS-1 day NA  Wed 161/2/20 Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/20 213 Sat 184/20 213 Wed 24/3/21	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215	0 days 75 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	69% 66% 100% 100% 100% 100% 100% 100% 100%	96 96 97 98 98 98 98 98 98 98 98 98 98 98 98 98
CIW-1000  CIW-1100  CIW-1100  CIW-1200  CIW-1320  CIW-1320  CIW-1330  CIW-1340  CIW-1440  CIW-1440  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1422  CIW-1423  CIW-1423	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rilsing Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenlify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth  Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage  Diversion of uncharted 2" water pipe  Additional Underground Utility Scanning for existing sludge pipe  HV Cable Diversion for Inlet Works	41 24 32 84	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 22 days 451 days?	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Wed 15/4/20 Sat 18/4/20 Sat 10/10/20	Sat 27/11/21 Wed 16:6/21  Sat 18/1/20 Tue 10/3/20 Sat 11/7/20  Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Wed 16/12/20  Mon 13/9/21  Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Fri 24/4/20 Sat 11/4/20 Wed 24/3/21	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 10/10/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20 Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/20 208FS-1 day NA  Wed 161/2/20 Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/20 213 Sat 184/20 213 Wed 24/3/21	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215	0 days 75 days 0 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9
CIW-1000 * CIW-1100 CIW-1200	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage  Diversion of uncharted 2 water pipe  Additional Underground Utility Scanning for existing sludge pipe  HV Cable Diversion for Inlet Works  Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System  Demolition of Deodorization System and Facilities between Existing	41 24 32 84	854 days 180 days 12 days 24 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 451 days 20 days 451 days? 24 days 451 days?	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Sat 18/4/20 Sat 10/10/20 Mon 4/5/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Sat 18/4/20 Wed 24/3/21	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/7/20 208FS-1 day NA  Wed 16/12/20 Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/20 213 Sat 18/4/20 213 Wed 24/3/21 Wed 24/3/21 NA	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220	0 days 75 days 0 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	96 96 97 97 98 99 99 99 99 99 99 99 99 99 99 99 99
CIW-1000  CIW-1100  CIW-1200  CIW-1300  CIW-1310  CIW-1320  CIW-1330  CIW-1340  CIW-14405  CIW-14405  CIW-14410  CIW-1421  CIW-1422  CIW-1423  CIW-1423  CIW-1423  CIW-1424  CIW-1424	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer Testing & commissioning Demolishment of the existing carbon deodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted 2 water pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1 Diversion of Existing Sludge Rising Main and Sewerage System Demolition of Deodorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pump Pit	41 24 32 84 236 81 037	854 days 180 days 12 days 24 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 27 days 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 10/10/20 Mon 4/5/20 Mon 28/9/20 Fri 28/8/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Sat 30/5/20 Wed 17/6/20 Sat 30/5/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Tue 17/3/20 Thu 7/5/20 Sat 18/4/20 Wed 24/3/21 Wed 24/3/21 Sat 30/1/21 Fri 28/6/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 10/10/20 Mon 4/5/20 Mon 28/9/20 Fri 28/8/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120  Sat 117/20  Wed 8/4/20 203 Sat 30/5/20 206  Wed 17/6/20 207 Sat 117/20 208FS-1 day  NA  Wed 16/12/20 Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/2013 Sat 18/4/20 213 Wed 24/3/21 Wed 24/3/21 NA Fri 28/8/20	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270	0 days 75 days 0 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9
CIW-1000 CIW-1100 CIW-1200 CIW-1310 CIW-1320 CIW-1320 CIW-1340 CIW-1340 CIW-1400 CIW-1405 CIW-1410 CIW-1422 CIW-1421 CIW-1422 CIW-1423 CIW-1423 CIW-1424 CIW-1424 CIW-1424 CIW-1423 CIW-1424 CIW	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenlify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer Testing & commissioning Demoishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted Tox250 sludge pipe Diversion of uncharted 2' water pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No.1  Diversion of Existing Sludge Rising Main and Sewerage System Demoilition of Deodorization System and Facilities between Existing Primary Sludge Prima	41 24 32 84 236	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 146 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 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	98 days  0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days?  24 days 451 days?	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Sat 18/4/20 Sat 18/4/20 Sat 10/10/20 Mon 4/5/20 Mon 28/9/20	Sat 27/11/21 Wed 16/6/21  Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Wed 17/6/20 Mon 13/9/21  Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Fri 24/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 30/1/21	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 July 11/20 Thu 19/11/20 July 15/4/20 Sat 10/10/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Mon 28/9/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/7/20 208FS-1 day NA  Wed 16/12/20 Tue 17/3/20 211 Thu 17/5/20 212 Fri 24/4/20 213 Sat 184/20 213 Wed 24/3/21 Wed 24/3/21  NA Fri 28/8/20 Tue 19/5/20 213,214	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220	0 days 75 days 0 days 6 days 6 days 6 days 6 days 6 days 6 days 6 days 6 days 6 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	96 99 99 99 99 99 99 99 99 99 99 99 99 9
CIW-1000  CIW-1100  CIW-1100  CIW-1200  CIW-1320  CIW-1320  CIW-1330  CIW-1330  CIW-1400  CIW-1440  CIW-1420  CIW-1420  CIW-1420  CIW-1425  CIW-1423  CIW-1423  CIW-1424  CIW-1425  CIW-1424  CIW-1425  CIW-1427  CIW-1428  CIW-1429  CIW-1429  CIW-1420  CIW-1420  CIW-1420  CIW-1421  CIW-1420  CIW-1421  CIW-1423  CIW-1423  CIW-1423  CIW-1424  CIW-1424  CIW-1425  CIW-1430  CIW-1440	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer Testing & commissioning Demolishment of the existing carbon deodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted 2 water pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System Demolition of Deodorization System and Facilities between Existing Primary Sludge Trickeners and Primary Sludge Pump Pit Removal of concrete surround and uncharted sludge pipe Remedial works for uncharted pipe and unforeseen water seepage	41 24 32 84 236 81 037	854 days 180 days 12 days 24 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 9 days 451 days 20 days 22 days 451 days? 24 days 8 days 27 days 1 day 135 days 1 day 136 days 1 day 136 days 268 days?	Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 11/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 31/3/20 Mon 9/3/20 Thu 31/3/20 Mon 4/5/20 Sat 18/4/20 Sat 10/10/20 Mon 28/9/20 Fri 28/8/20 Fri 24/4/20 Fri 8/5/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Sat 30/5/20 Wed 17/6/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Sat 18/4/20 Wed 24/3/21 Wed 24/3/21 Sat 30/1/21 Fit 28/6/20 Tue 19/5/20 Tue 19/5/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 10/10/20 Mon 4/5/20 Fri 28/8/20 Fri 8/5/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120  Sat 117/20  Wed 8/4/20 203 Sat 30/5/20 206  Wed 17/6/20 207 Sat 117/20 208FS-1 day  NA  Wed 16/12/20  Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/20 213 Sat 184/20 213 Wed 24/3/21 Wed 24/3/21 NA Fri 28/8/20  Tue 19/5/20 213,214 Tue 19/5/20 220	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270	0 days 75 days 0 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9
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CW-1000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1300 CW-1300 CW-1320 CW-1320 CW-1320 CW-1405 CW-1405 CW-1405 CW-1410 CW-1422 CW-1423 CW-1423 CW-1425 CW-1425 CW-1426 CW-1426 CW-1426 CW-1426 CW-1427 CW-1428 CW-142	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Ullities scanning to identify existing UU arrangement Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer  Testing & commissioning  Demoishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage  Diversion of uncharted ToxEof sludge pipe  Diversion of uncharted 10x250 sludge pipe  Additional Underground Utility Scanning for existing sludge pipe  HV Cable Diversion for Inlet Works  Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System  Demoilition of Deodorization System and Facilities between Existing Primary Sludge Primar	41 24 32 84 236 81 037	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 146 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 21 days 9 days 1 day 1 35 days 268 days? 1 day 20 days 1 day 23 days 268 days? 28 days 29 days 29 days 29 days 29 days 29 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/1/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Thu 13/1/20 Mon 4/5/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Fri 24/4/20 Sat 18/4/20 Yed 24/3/21 Wed 24/3/21 Sat 30/1/21 Fri 28/8/20 Tue 19/5/20 Tue 19/5/20 Thu 19/5/20 Thu 19/5/20 Wed 28/12/20 Wed 15/7/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/8/20 Fri 28/8/20 Fri 24/4/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20 Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 11/7/20 208FS-1 day  Wed 16/12/20 Tue 17/3/20 211 Thu 17/5/20 212 Fri 24/4/20 213 Sat 18/4/20 213 Wed 24/3/21 Wed 24/3/21 Wed 28/3/20 Tue 19/5/20 213,214 Tue 19/5/20 220  Mon 28/12/20 204,221 Thu 18/6/20 221 Wed 15/7/20 223	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223  224  225,237	0 days 75 days 0 days	69% 66% 66% 100% 100% 100% 100% 100% 100%	96 97 98 99 99 99 99 99 99 99 99 99 99 99 99
CIW-1000 CIW-1000 CIW-1000 CIW-1300 CIW-1310 CIW-1320 CIW-1330 CIW-1330 CIW-1400 CIW-1400 CIW-1400 CIW-1400 CIW-1410 CIW-1421 CIW-1422 CIW-1423 CIW-1423 CIW-1425 CIW-1425 CIW-1440 CIW-1425 CIW-1426 CIW-1426 CIW-1427 CIW-1428 CIW-1428 CIW-1428 CIW-1428 CIW-1429 CIW-1429 CIW-1429 CIW-1429 CIW-1429 CIW-1429 CIW-1429 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1440 CIW-1440 CIW-1450 CIW	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer Testing & commissioning Demoishment of the existing carbon deodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted 2 water pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1 Diversion of Existing Sludge Rising Main and Sewerage System Demoilition of Deodorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pump Pit Removal of concrete surround and uncharted sludge pipe Remedial works for uncharted pipe and unforeseen water seepage Trench Excavation for 180mm dia pipeline and manholes Sheetpile installation (on hold due to identification of uncharted	41 24 32 84 236 81 037	854 days 180 days 12 days 24 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 9 days 24 days 450 days 15 days 20 days 451 days? 24 days 8 days 27 days 1 day 135 days 1 day 1 day 1 day 1 day 1 day 2 days 1 day 2 days 1 day 2 days 1 day 3 days 1 day 2 days 1 day 2 days 1 day 3 days 6 days 8 days 9 days 1 day 1 day 1 day 2 days 1 day 2 days 1 day 3 days 1 day 4 days 8 days 8 days 8 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 31/3/20 Mon 9/3/20 Thu 31/3/20 Mon 4/5/20 Sat 18/4/20 Sat 10/10/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20 Fri 8/5/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Sat 30/5/20 Wed 17/6/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Sat 18/4/20 Wed 24/3/21 Wed 24/3/21 Sat 30/1/21 Fit 28/6/20 Tue 19/5/20 Thu 18/6/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 31/3/20 Mon 9/3/20 Thu 31/3/20 Mon 4/5/20 Sat 18/4/20 Sat 10/10/20 Mon 4/5/20 Fri 28/8/20 Fri 28/8/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/20 208FS-1 day  NA  Wed 16/12/20 Tue 17/3/20 211 Thu 17/5/20 212 Fri 24/4/20 213 Sat 18/4/20 213 Wed 24/3/21 Wed 24/3/21  Ved 24/3/21  Tue 19/5/20 213,214 Tue 19/5/20 220  Mon 28/12/20 204,221 Thu 18/6/20 221  Wed 18/12/20 204,221 Thu 18/6/20 221	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223	0 days 75 days 0 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	96 97 98 99 99 99 99 99 99 99 99 99 99 99 99
CIW-1000  CIW-1100  CIW-1100  CIW-1200  CIW-1300  CIW-1310  CIW-1320  CIW-1330  CIW-1400  CIW-1405  CIW-1405  CIW-1420  CIW-1420  CIW-1420  CIW-1422  CIW-1423  CIW-1423  CIW-1424  CIW-1425  CIW-1425  CIW-1426  CIW-1427  CIW-1428  CIW-1428  CIW-1429  CIW-1429  CIW-1420  CIW-1450  CIW-1450  CIW-1450  CIW-1450  CIW-1450  CIW-1450	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation of Deodorizer Testing & commissioning Demolishment of the existing carbon deodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted DN250 sludge Pipe Diversion of uncharted 2 water pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System Demolition of Deodorization System and Facilities between Existing Primary Sludge Trickners and Primary Sludge Pump Pit Removal of concrete surround and uncharted sludge pipe Remedial works for uncharted pipe and unforeseen water seepage Trench Excavation for 1800mm dia pipeline and manholes Sheetpile installation (on hold due to identification of uncharted obstruction) Trench Excavation for 1800mm dia pipeline and manholes Identification of uncharted concrete surround and pipes near MHA01	41 24 32 84 236 81 037 030 273	854 days 180 days 12 days 24 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	98 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days 27 days 9 days 1 day 135 days 268 days? 1 day 102 days 1 day 102 days 102 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Tue 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/8/20 Fri 28/8/20 Fri 24/4/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Fri 24/4/20 Sat 18/4/20 Yed 24/3/21 Wed 24/3/21 Sat 30/1/21 Fri 28/8/20 Tue 19/5/20 Tue 19/5/20 Thu 19/5/20 Thu 19/5/20 Wed 28/12/20 Wed 15/7/20	Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 10/10/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/20 208FS-1 day  NA Wed 16/12/20 Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/20 213 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Use 18/6/20 213 Use 24/3/21 What I I I I I I I I I I I I I I I I I I I	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223  224  225,237	0 days 75 days 0 days	69% 66% 66% 100% 100% 100% 100% 100% 100%	96 96 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98
CRW-1000 CRW-1000 CRW-1000 CRW-1000 CRW-1000 CRW-1300 CRW-1310 CRW-1320 CRW-1330 CRW-1340 CRW-1405 CRW-1410 CRW-1420 CRW-1440 CRW-1450 CRW-14500 CR	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth  Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted studge Pipe leakage  Diversion of uncharted DN250 studge pipe  Diversion of uncharted Z water pipe  Additional Underground Utility Scanning for existing studge pipe  HV Cable Diversion for Inlet Works  Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Studge Rising Main and Sewerage System  Demolition of Deodorization System and Facilities between Existing Primary Studge Trickeners and Primary Studge Pump Pit  Removal of concrete surround and uncharted sludge pipe  Remedial works for uncharted pipe and unforeseen water seepage  Trench Excavation for 1800mm dia pipeline and manholes  Sheetpile installation (on hold due to identification of uncharted obstruction)  Trench Excavation for 1800mm dia pipeline and manholes  Identification of uncharted concrete surround and pipes near MHAO1  Removal of existing DSD drawpits near IRC & exposure of CLP cables with installation (of additional temporary support	41 24 32 84 236 81 037 030 273 28	854 days 180 days 12 days 24 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 450 days 15 days 20 days 451 days? 27 days 9 days 1 day 135 days 268 days? 102 days 10 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days	Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/8/20 Fri 28/8/20 Fri 24/4/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Sat 18/4/20 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Tue 19/5/20 Tue 19/5/20 Tue 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 The 18/8/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 The 31/3/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Tri 28/6/20 Fri 28/6/20 Fri 28/6/20 Fri 18/6/20 Thu 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 16/7/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206  Wed 17/6/20 207 Sat 11/7/20 208FS-1 day  NA  Wed 16/12/20 Tue 17/3/20/211 Thu 17/5/20 212 Fri 24/4/20/213 Sat 18/4/20/213 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Tue 19/5/20 213 Tue 19/5/20 220  Mon 28/12/20 204,221 Thu 18/6/20 221 Thu 18/6/20 221 Tue 18/6/20 224 Fri 14/8/20	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223  224  224  225,237  228,233,237	0 days 75 days 0 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	76 76 76 77 76 77 77 77 78 78 78 78 78 78 78 78 78 78
CIW-1000 CIW-1100 CIW-1100 CIW-1200 CIW-1300 CIW-1310 CIW-1320 CIW-1320 CIW-1340 CIW-1400 CIW-1400 CIW-1400 CIW-1400 CIW-1400 CIW-1400 CIW-1400 CIW-1400 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-14500 CIW-14500 CIW-14500 CIW-14500 CIW-14500 CIW-14500	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Decotorization Unit for the Existing linet Works  Construction of concrete plinth  Installation of Decotorizer  Testing & commissioning  Demolishment of the existing carbon decotorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage  Diversion of uncharted DN250 sludge pipe  Diversion of uncharted 2' water pipe  Additional Underground Utility Scanning for existing sludge pipe  HV Cable Diversion for Inlet Works  Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System  Demolition of Decotorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pump Pit  Removal of concrete surround and uncharted sludge pipe  Remedial works for uncharted pipe and unforeseen water seepage  Trench Excavation for 1800mm dia pipeline and manholes  Sheetpile installation (on hold due to identification of uncharted debstruction)  Trench Excavation for 1800mm dia pipeline and manholes  Identification of uncharted concrete surround and pipes near MHA01  Removal of existing DSD drawpits near IRC & exposure of CLP	41 24 32 84 236 81 037 030 273	854 days 180 days 12 days 24 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	98 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days 27 days 9 days 1 day 135 days 268 days? 1 day 102 days 1 day 102 days 102 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Tue 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/8/20 Fri 28/8/20 Fri 24/4/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	Sat 27/11/21 Wed 16/6/21  Sat 18/1/20 Tue 10/3/20 Sat 11/7/20  Wed 8/4/20 Sat 30/5/20 Wed 16/12/20 Mon 13/9/21  Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Fri 24/4/20 Sat 18/4/20 Wed 24/3/21 Wed 24/3/21 Sat 30/1/21 Fri 28/8/20 Tue 19/5/20 Tue 19/5/20 Tue 19/5/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Sat 10/10/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20 Wed 11/3/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206  Wed 17/6/20 207 Sat 11/7/20 208FS-1 day  NA  Wed 16/12/20 Tue 17/3/20/211 Thu 17/5/20 212 Fri 24/4/20/213 Sat 18/4/20/213 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Tue 19/5/20 213 Tue 19/5/20 220  Mon 28/12/20 204,221 Thu 18/6/20 221 Thu 18/6/20 221 Tue 18/6/20 224 Fri 14/8/20	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223  224  225,237	0 days 75 days 0 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	76 76 76 77 76 77 77 77 78 78 78 78 78 78 78 78 78 78
CIW-1000  CIW-1000  CIW-1100  CIW-1200  CIW-1300  CIW-1310  CIW-1320  CIW-1320  CIW-1300  CIW-1400  CIW-1400  CIW-1400  CIW-1405  CIW-1410  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1450  CIW-14500  CIW-14500  CIW-14500  CIW-14500  CIW-14500  CIW-14500	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenlify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation and Deodorizer  Testing & commissioning Demoishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted 2 water pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System Demoilition of Deodorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pipe Removal of concrete surround and uncharted sludge pipe Remedial works for uncharted pipe and unforeseen water seepage  Trench Excavation for 1800mm dia pipeline and manholes Sheetpile installation (on hold due to identification of uncharted obstruction) Trench Excavation for 1800mm dia pipeline and manholes Identification of uncharted concrete surround and pipes near MHA01 Removal of uncharted concrete surround and pipes near MHA01 and Reveighte installation Revised type of pipe bedding between Manholes no. MHA01 and	41 24 32 84 236 81 037 030 273 28	854 days 180 days 12 days 24 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 21 days 9 days 1 day 135 days 268 days? 102 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 20 days 10 days 20 days 10 days 20 days 20 days 20 days 10 days	Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 18/4/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/8/20 Fri 28/8/20 Fri 24/4/20 Fri 8/5/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Sat 11/7/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Sat 18/4/20 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Tue 19/5/20 Tue 19/5/20 Tue 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 The 18/8/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 The 31/3/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Mon 4/5/20 Tri 28/6/20 Fri 28/6/20 Fri 28/6/20 Fri 18/6/20 Thu 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 16/7/20	NA NA 174,119  Sat 18/1/20 154 Tue 10/3/20 154,203SS,120 Sat 11/7/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 11/7/20 208FS-1 day  NA  Wed 16/12/20 Tue 17/3/20 211 Thu 17/5/20 212 Fri 24/4/20 213 Sat 18/4/20 213 Wed 24/3/21 Wed 24/3/21 Wed 28/3/21 Tue 19/5/20 202  Mon 28/12/20 204,221 Thu 18/6/20 223 Tue 18/6/20 224 Fri 14/6/20 Tue 18/6/20 224	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223  224  224  225,237  228,233,237	0 days 75 days 0 days	69% 66% 100% 100% 100% 100% 100% 100% 100%	76
CIW-1000  CIW-1100  CIW-1100  CIW-1300  CIW-1310  CIW-1320  CIW-1330  CIW-1330  CIW-1330  CIW-1405  CIW-14405  CIW-14405  CIW-1421  CIW-1422  CIW-1423  CIW-1423  CIW-1423  CIW-1424  CIW-1425  CIW-1425  CIW-1426  CIW-1427  CIW-1427  CIW-1428  CIW-1429  CIW-1429  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-1420  CIW-14500  CIW-14500  CIW-14500  CIW-14500  CIW-14500  CIW-14500  CIW-14500	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to identify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation and Commissioning Demoishment of the existing carbon deodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Intital Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted Pox260 sludge pipe Diversion of uncharted Ox260 sludge pipe Diversion of uncharted Ox260 sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1 Diversion of Existing Sludge Rising Main and Sewerage System Demoilion of Deodorization System and Facilities between Existing Primary Sludge Thickners and Primary Sludge Pribry Sludge Thickners and Primary Sludge Pribry Sludge Thickners and Primary Sludge Pribry Sludge Thickners and Primary Sludge Pribry Pit Removal of concrete surround and uncharted sludge pipe Remedial works for uncharted pipe and unforeseen water seepage  Trench Excavation for 1800mm dia pipeline and manholes Sheetpile installation (on hold due to identification of uncharted obstruction) Trench Excavation for 1800mm dia pipeline and manholes Identification of uncharted concrete surround and pipes near MHA01 Removal of existing DSD drawpits near IRC & exposure of CLP cables with installation of additional temporary support Removal of concarte surround and pipes near MHA01 and Sheetpile installation	41 24 32 84 236 81 037 030 273 28 28 215-2 (045)	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 146 days 146 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 450 days 15 days 20 days 451 days? 27 days 9 days 1 day 135 days 268 days? 102 days 10 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days 20 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 18/4/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Thu 11/3/20 Wed 11/3/20 Thu 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 16/7/20 Thu 16/7/20 Fri 7/8/20 Sat 3/10/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Wed 17/6/20 Tue 17/3/20 Thu 7/5/20 Fri 24/4/20 Sat 30/1/21 Fri 28/6/20 Tue 19/5/20 Tue 19/5/20 Tue 19/5/20 Tue 18/6/20 Fri 14/6/20 Tue 18/6/20 Tue 18/6/20 Fri 14/6/20 Tue 18/6/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 9/11/20 Mon 9/3/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 10/10/20 Mon 28/9/20 Fri 28/8/20 Fri 28/4/20 Fri 8/5/20 Wed 11/3/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Sat 3/10/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/7/20 208FS-1 day NA  Wed 16/12/20 Tue 17/20 208FS-1 day NA Fit 28/4/20 213 Sat 18/4/20 213 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Tue 19/5/20 220  Mon 28/12/20 204,221 Thu 18/6/20 221 Wed 15/7/20 223 Tue 18/8/20 224 Fri 14/8/20 Tue 19/8/20	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223  224  225,237  228,233,237  228,233,237	0 days 75 days 0 days	69% 66% 66% 100% 100% 100% 100% 100% 63% 63% 63% 100% 100% 100% 100% 100% 100% 100% 10	500
CIW-1000  CIW-1100  CIW-1100  CIW-1300  CIW-1310  CIW-1320  CIW-1330  CIW-1330  CIW-1405  CIW-1405  CIW-1421  CIW-1423  CIW-1423  CIW-1423  CIW-1423  CIW-1423  CIW-1424  CIW-1425  CIW-1425  CIW-1425  CIW-1426  CIW-1427  CIW-1428  CIW-1429  CIW-1429  CIW-1429  CIW-1429  CIW-1429  CIW-1421  CIW-1423  CIW-1423  CIW-1423	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)  Utilities scanning to idenlify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation and Deodorizer  Testing & commissioning Demoishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted DN250 sludge pipe Diversion of uncharted 2 water pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System Demoilition of Deodorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pipe Removal of concrete surround and uncharted sludge pipe Remedial works for uncharted pipe and unforeseen water seepage  Trench Excavation for 1800mm dia pipeline and manholes Sheetpile installation (on hold due to identification of uncharted obstruction) Trench Excavation for 1800mm dia pipeline and manholes Identification of uncharted concrete surround and pipes near MHA01 Removal of uncharted concrete surround and pipes near MHA01 and Reveighte installation Revised type of pipe bedding between Manholes no. MHA01 and	41 24 32 84 236 81 037 030 273 28 28 215-2 (045)	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 146 days 0 days 0 days 146 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 21 days 9 days 1 day 135 days 268 days? 102 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 10 days 20 days 20 days 10 days 20 days 10 days 20 days 20 days 20 days 10 days	Tue 26/11/19 Tue 26/11/19 Mon 6/1/20 Wed 11/3/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Mon 9/3/20 Mon 9/3/20 Thu 19/1/20 Mon 9/3/20 Mon 9/3/20 Thu 19/1/20 Mon 9/3/20 Fin 28/8/20 Mon 28/9/20 Fri 28/8/20 Wed 11/3/20 Thu 11/3/20 Thu 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 18/6/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Fri 24/4/20 Sat 18/4/20 Tue 19/5/20 Tue 19/5/20 Tue 18/6/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 17/3/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Wed 15/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/8/20 Fri 24/4/20 Fri 24/4/20 Wed 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 18/6/20 Thu 16/7/20 Thu 16/7/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/7/20 208FS-1 day NA  Wed 16/12/20 Tue 17/20 208FS-1 day NA Fit 28/4/20 213 Sat 18/4/20 213 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Tue 19/5/20 220  Mon 28/12/20 204,221 Thu 18/6/20 221 Wed 15/7/20 223 Tue 18/8/20 224 Fri 14/8/20 Tue 19/8/20	204SS,206 222,241 207 208 209FS-1 day 212 213 220,214,215 220 298,300,269,270 221 222,223 224 225,237 228,233,237	0 days 75 days 0 days	69% 66% 66% 100% 100% 100% 100% 100% 100%	500
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CIW-1000 CIW-1000 CIW-1100 CIW-1100 CIW-1200 CIW-1300 CIW-1320 CIW-1330 CIW-1340 CIW-1405 CIW-1405 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1420 CIW-1450 CIW-14500 CIW-14500 CIW-14500 CIW-14500 CIW-14500 CIW-14500 CIW-14500	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth  Installation of Deodorizer  Testing & commissioning  Demolishment of the existing carbon deodorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage  Diversion of uncharted DN250 sludge pipe  Diversion of uncharted 2 water pipe  Additional Underground Utility Scanning for existing sludge pipe  HV Cable Diversion for Inlet Works  Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System  Demolition of Deodorization System and Facilities between Existing Primary Sludge Trickeners and Primary Sludge Pump Pit  Removal of concrete surround and uncharted sludge pipe  Remedial works for uncharted pipe and unforeseen water seepage  Trench Excavation for 1800mm dia pipeline and manholes  Sheetpile installation (on hold due to identification of uncharted obstruction)  Trench Excavation for 1800mm dia pipeline and manholes  Identification of uncharted concrete surround and pipes near MHA01  Removal of uncharted concrete surround and pipes near MHA01 and Sheetpile installation (or additional temporary support  Removal of uncharted concrete surround and pipes near MHA01 and Sheetpile installation  Revised type of pipe bedding between Manholes no. MHA01 and MHA02  Replace top soil with Grade 200 Rockfill below Formation level of	41 24 32 84 236 81 037 030 273 28 28 215-2 (045)	854 days 180 days 12 days 24 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 24 days 451 days? 24 days 27 days 9 days 135 days 268 days? 102 days 1 day 20 days 10 days 22 days 28 days 28 days 268 days 6 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Wed 11/3/20 Thu 9/4/20 Mon 9/3/20 Thu 19/1/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 4/5/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/8/20 Fri 28/8/20 Fri 28/8/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Sat 3/10/20 Mon 4/5/20 Sat 3/10/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Wed 17/6/20 Tue 17/3/20 Thu 7/5/20 Fri 24/4/20 Sat 30/1/21 Fri 28/6/20 Tue 19/5/20 Tue 19/5/20 Tue 19/5/20 Tue 18/6/20 Fri 14/6/20 Tue 18/6/20 Tue 18/6/20 Fri 14/6/20 Tue 18/6/20	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 1/6/20 Mon 9/3/20 Thu 9/11/20 Mon 9/3/20 Mon 9/3/20 Tue 31/3/20 Wed 15/4/20 Sat 10/10/20 Mon 28/9/20 Fri 28/8/20 Fri 28/4/20 Fri 8/5/20 Wed 11/3/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Sat 3/10/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20  Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/20 208FS-1 day  NA  Wed 161/2/20 Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/20 213 Wed 24/3/21  Wed 24/3/21  NA Fri 28/8/20 Tue 19/5/20 213,214 Tue 19/5/20 220  Mon 28/12/20 204,221 Thu 18/6/20 221  Wed 15/7/20 223 Tue 18/8/20 224 Fri 14/8/20 Tue 18/8/20 Fri 9/10/20 227,225  Wed 12/8/20 228	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223  224  224  225,237  228,233,237  228,233  229  231	0 days 75 days 0 days	69% 66% 66% 100% 100% 100% 100% 100% 100%	50
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CRW-1000 CRW-1000 CRW-1000 CRW-1000 CRW-1200 CRW-1300 CRW-1310 CRW-1320 CRW-1330 CRW-1330 CRW-1400 CRW-1400 CRW-1410 CRW-1421 CRW-1422 CRW-1423 CRW-1425 CRW-1425 CRW-1450 CRW	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners)  Utilities scanning to identify existing UU arrangement  Trial pits to locate the collection points  Installation and Commissioning of Temporary Activated Carbon Decotorization Unit for the Existing linet Works  Construction of concrete plinth  Installation of Decotorizer  Testing & commissioning  Demolishment of the existing carbon decotorization unit  Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL  Remedial Works for uncharted sludge Pipe leakage  Diversion of uncharted DN250 sludge pipe  Diversion of uncharted 2' water pipe  Additional Underground Utility Scanning for existing sludge pipe  HV Cable Diversion for Inlet Works  Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1  Diversion of Existing Sludge Rising Main and Sewerage System  Demolition of Decotorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pump Pit  Removal of concrete surround and uncharted sludge pipe  Remedial works for uncharted pipe and unforeseen water seepage  Trench Excavation for 1800mm dia pipeline and manholes  Sheetpile installation (on hold due to identification of uncharted obstruction)  Trench Excavation for 1800mm dia pipeline and manholes  Identification of uncharted concrete surround and pipes near MHA01  Removal of uncharted concrete surround and pipes near MHA01  Removal of skisting DSD drawpits near IRC & exposure of CLP cables with installation of additional temporary support  Removal of uncharted concrete surround and pipes near MHA01 and Sheepipe installation of uncharted concrete surround and pipes near MHA01 and Sheepipe installation of uncharted concrete surround and pipes near MHA01 and Sheepipe installation of additional temporary support  Removal of uncharted concrete surround and pi	41 24 32 84 236 81 037 030 273 28 28 215-2 (045) 096	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 0 days 146 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 21 days 9 days 1 day 135 days 268 days? 102 days 10 days 20 days 10 days 10 days 26 days 27 days 3 days 28 days 3 days 451 days 452 days 453 days 453 days 454 days 455 days 456 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days 457 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/1/20 Mon 9/3/20 Thu 19/1/20 Mon 9/3/20 Mon 9/3/20 Fri 24/4/20 Fri 28/8/20 Fri 28/8/20 Thu 11/3/20 Wed 11/3/20 Thu 18/6/20 Thu 16/7/20 Thu 10/8/20	Sat 27/11/21 Wed 16/6/21 Sat 18/1/20 Tue 10/3/20 Sat 11/7/20 Wed 8/4/20 Sat 30/5/20 Wed 17/6/20 Mon 13/9/21 Wed 16/12/20 Tue 17/3/20 Fri 24/4/20 Sat 30/1/21 Fri 28/8/20 Tue 19/5/20 Tue 19/5/20 Tue 19/5/20 Tue 18/8/20	Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Thu 9/4/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Wed 15/4/20 Sat 10/10/20 Mon 28/9/20 Fri 28/8/20 Fri 28/8/20 Fri 28/4/20 Fri 28/7/20 Fri 28/3/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Mon 10/8/20 Wed 23/12/20 Tue 27/10/20 Tue 27/10/20 Tue 27/10/20 Tue 1/9/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20 Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/20 208FS-1 day NA Wed 16/12/20 Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/20 213 Sat 18/4/20 213 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Wed 28/3/20 Tue 19/5/20 220 Wed 15/7/20 223 Tue 18/8/20 224 Fri 14/8/20 Tue 18/8/20 Tue 18/8/20 224 Fri 14/8/20 Tue 18/8/20 225 Wed 15/7/20 223 Tue 18/8/20 224 Fri 14/8/20 Tue 18/8/20 224 Fri 14/8/20 Tue 18/8/20 228 Wed 12/8/20 228 Mon 28/12/20 228 Mon 28/12/20 NA 229,233,232,234,230 Mon 7/9/20 NA 225,227	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223  224  225,237  228,233,237  228,233  229  231  231  231	0 days 75 days 0 days	69% 66% 66% 100% 100% 100% 100% 100% 100%	
IW-1000   IW-1000   IW-1000   IW-1100   IW-1200   IW-1310   IW-1320   IW-1330   IW-1330   IW-1330   IW-1340   IW-1400   IW-1440   IW-1421   IW-1421   IW-1423   IW-1423   IW-1423   IW-1425   IW-1450   IW-1	Inlet Works No.1, B-2  Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Studge Pipes, Tank Drains and Pipelines near Primary Studge Thinkeners)  Utilities scanning to identify existing UU arrangement Trial pits to locate the collection points Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works  Construction of concrete plinth Installation and Commissioning Demoishment of the existing carbon deodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)  Joint Initial Survey arrangement with MTRCL Remedial Works for uncharted studge Pipe leakage Diversion of uncharted DN250 studge pipe Diversion of uncharted DN250 studge pipe Additional Underground Utility Scanning for existing sludge pipe Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works Exposing, Removal and Diversion of Existing Cables near Inlet Works No.1  Diversion of Existing Sludge Rising Main and Sewerage System Demoilition of Deodorization System and Facilities between Existing Primary Sludge Thickners and Primary Sludge Pipe Removal of concrete surround and uncharted sludge pipe Remedial works for uncharted pipe and unforeseen water seepage Trench Excavation for 1800mm dia pipeline and manholes Sheetpile installation (on hold due to identification of uncharted obstruction) Trench Excavation for 1800mm dia pipeline and manholes Identification of uncharted concrete surround and pipes near MHA01 Removal of acksting DSD drawpits near IRC & exposure of CLP cables with installation of additional temporary support Removal of uncharted concrete surround and pipes near MHA01 and Sheetpile installation of additional temporary support Removal of uncharted concrete surround and pipes near MHA01 and Sheetpile installation of additional temporary support Removal of uncharted concrete surround and pipes near MHA01 and MHA02 Grade 200 Rockfill in ELS cofferdam of IRC Construct Mi	41 24 24 32 84 236 81 037 030 273 28 28 215-2 (045) 096 079 (161)	854 days 180 days 12 days 24 days 0 days 0 days 0 days 0 days 146 days 146 days 0 days	Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  Mon 6/1/20  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	Mon 21/11/22 Fri 14/8/20 Sat 18/1/20 Wed 5/2/20 NA NA NA NA NA NA NA NA NA NA NA NA NA	596 days 459 days 0 days 0 days 98 days 24 days 40 days 15 days 20 days 451 days? 24 days 16 days 17 days 18 days 27 days 19 days 102 days 102 days 10 days 10 days 26 days 27 days 28 days 30 days 451 days 6 days 6 days 6 days 3 days 6 days 6 days 6 days	Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Tue 31/3/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Mon 9/3/20 Sat 18/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/8/20 Fri 28/8/20 Thu 11/3/20 Wed 11/3/20 Thu 16/7/20 Thu 18/6/20 Thu 19/9/20 Thu 1/9/20	Sat 27/11/21 Wed 16/6/21  Sat 18/1/20 Tue 10/3/20 Sat 11/7/20  Wed 8/4/20 Sat 30/5/20 Wed 16/12/20 Mon 13/9/21  Wed 16/12/20 Tue 17/3/20 Thu 7/5/20 Fri 24/4/20 Sat 30/1/21 Fri 28/6/20 Tue 19/5/20 Tue 19/5/20 Tue 19/5/20 Tue 18/6/20 Tue 18/6/20 Tue 18/6/20 Tue 18/6/20 Wed 15/7/20 Tue 18/6/20 Wed 12/6/20 Wed 12/6/20 Wed 12/6/20 Wed 12/6/20 Wed 13/9/21 Mon 7/9/20 Wed 31/3/21	Tue 26/11/19 Tue 26/11/19 Tue 26/11/19 Fri 13/12/19 Mon 6/1/20 Wed 11/3/20 Tue 3/13/20 Mon 1/6/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Thu 19/11/20 Mon 9/3/20 Tue 31/3/20 Gast 18/4/20 Sat 18/4/20 Sat 18/4/20 Fri 28/9/20 Fri 28/9/20 Fri 28/9/20 Tue 31/3/20 Thu 18/6/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Thu 16/7/20 Tri 27/10/20 Wed 11/9/20 Wed 16/9/20 Tue 19/9/20 Tue 19/9/20 Fri 18/9/20 Fri 18/9/20 Fri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20 Tri 18/9/20	NA NA 174,119  Sat 181/20 154 Tue 10/3/20 154,203SS,120 Sat 117/20 Wed 8/4/20 203 Sat 30/5/20 206 Wed 17/6/20 207 Sat 117/20 208FS-1 day NA Wed 16/12/20 Tue 17/3/20 211 Thu 7/5/20 212 Fri 24/4/20 213 Sat 18/4/20 213 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Wed 28/3/20 Tue 19/5/20 220 Wed 15/7/20 223 Tue 18/8/20 224 Fri 14/8/20 Tue 18/8/20 Tue 18/8/20 224 Fri 14/8/20 Tue 18/8/20 225 Wed 15/7/20 223 Tue 18/8/20 224 Fri 14/8/20 Tue 18/8/20 224 Fri 14/8/20 Tue 18/8/20 228 Wed 12/8/20 228 Mon 28/12/20 228 Mon 28/12/20 NA 229,233,232,234,230 Mon 7/9/20 NA 225,227	43FF  204SS,206  222,241  207  208  209FS-1 day  212  213  220,214,215  220  298,300,269,270  221  222,223  224  225,237  228,233,237  228,233,237  228,233  229  231  231  231  231	0 days 75 days 0 days 1 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	69% 66% 66% 66% 100% 100% 100% 100% 100% 1	

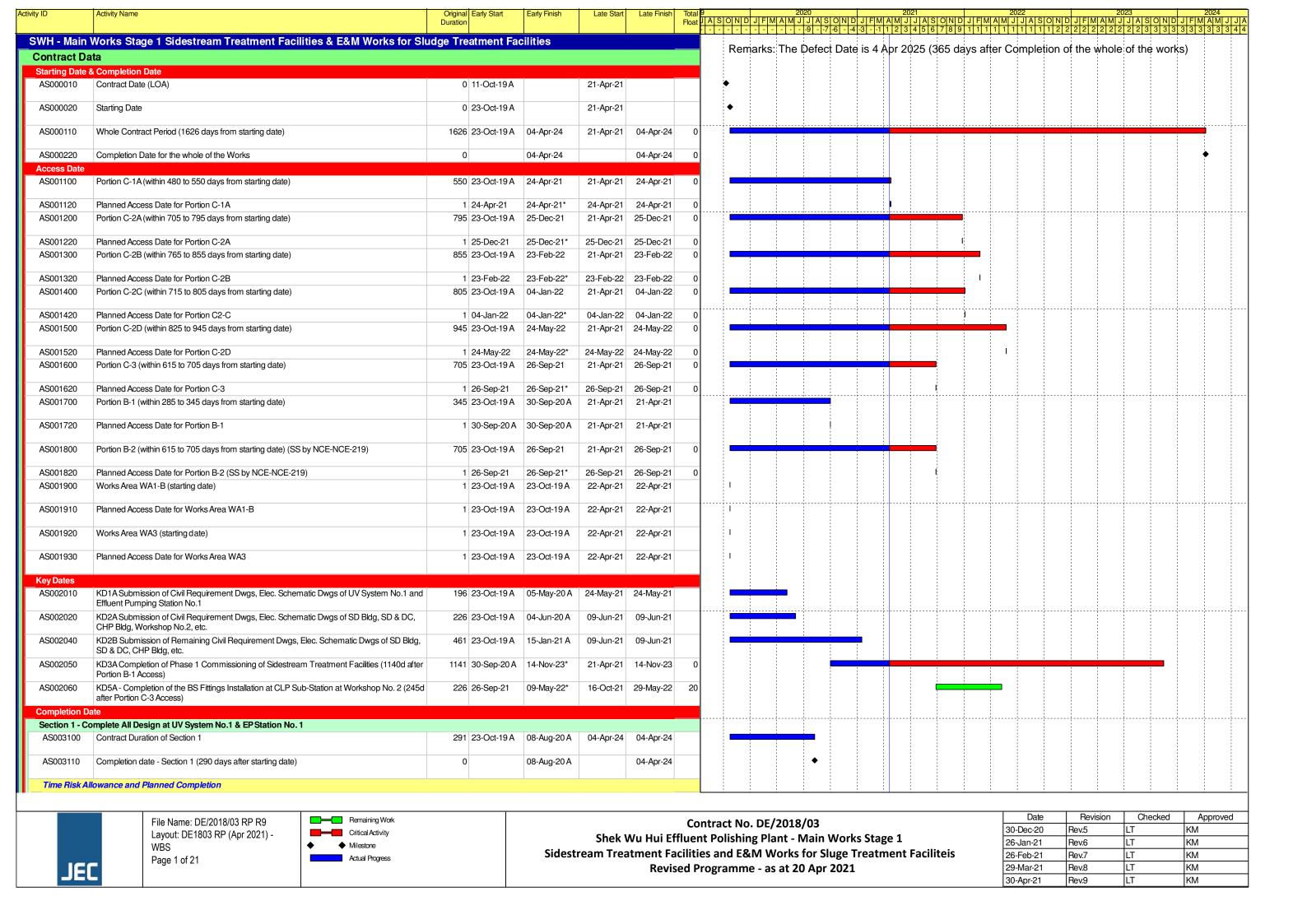
k Wu Hui Effluent Polishing Plant	st. Main Works Stone 1								Revised	Norks Programme (Status Date: 31/03/2021)				
Activity ID Key Task Na	Name Incle	ement PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	ctual Start A	ctual Finish Predecessors	Successors	Total Slack	Risk Allowance % Complete	
	CE n (NCE	no. E no.)											uarter July	1st Quarter 1st Qu
CIW-1456	Compliance Test for DN1800 Precast Concrete Pipe	065	0 days	NA O 1 00 00 00	NA	1 day	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20	200	0 days	100%	
CIW-1457 CIW-1458	Lay 1800mm dia concretre pipe  Connection to existing Inlet Chamber		24 days 12 days	Sat 20/6/20 Tue 21/7/20	Mon 20/7/20 Mon 3/8/20	88 days 12 days	Thu 17/9/20 Tue 26/1/21	Mon 25/1/21 Mon 8/2/21	Thu 17/9/20 NA	NA 224,225,234 NA 237	238 298,44FF	101 days 101 days	0%	
IW-1500	Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain		150 days	Thu 6/2/20	Fri 7/8/20	594 days	Tue 26/11/19	Thu 25/11/21	Tue 26/11/19	NA NA	250,711.1	-99 days	82%	
W-1510 KD1B	Diversion of Tank Drain MHD9.5 (approx. 70m CHES1 & CHES2)		150 days	Thu 6/2/20	Fri 7/8/20	406 days	Tue 26/11/19	Mon 12/4/21	Tue 26/11/19	NA 268	43FF,298	0 days	99%	
W-1500a	Diversion of Tank Drain MHD9.5 to MHA04 (approx. 70m		150 days	Thu 6/2/20	Fri 7/8/20	406 days	Tue 26/11/19	Mon 12/4/21	Tue 26/11/19	NA 204		0 days	99%	
111-13008	675mm dia conrete pipe, 24m DN250 DI leachate rising main,		130 days	1110 02/20	1117/0/20	400 days	1 de 20/11/13	MOII 12-421	146 20 11/13	11.204		o days	33,6	
	90m CHES1&S2 DN250 CI )													
V-1500b	Joint Initial Survey arrangement with MTRCL		0 days	NA	NA	158 days	Tue 26/11/19	Wed 10/6/20	Tue 26/11/19	Wed 10/6/20		0 days	100%	
V-1500c	Site Clearance & inspection pit excavation under conforming alignments		0 days	NA	NA	36 days	Fri 12/6/20	Sat 25/7/20	Fri 12/6/20	Sat 25/7/20		0 days	100%	
W-1511	Tank Drain Diversion near MTRCL track		0 days	NA	NA	248 days	Thu 11/6/20	Mon 12/4/21	Thu 11/6/20	NA		0 days	99%	
W-1511a	Excavation of trial pit near MHD9.5 (TP45 & 47)	040	0 days	NA	NA	12 days	Mon 27/7/20	Sat 8/8/20	Mon 27/7/20	Sat 8/8/20	246,250	0 days	100%	
V-1511b	Uncharted cables found near MTRC track and identification		0 days	NA	NA	1 day	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20 245		0 days	100%	
V-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	248	0 days	100%	
/-1511d	Lower the ground surface, opening and additional trial pit (TP38)	(046)	0 days	NA	NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20 247	249	0 days	100%	
W-1511e	Excavation of Trial Pits near Manhole MHA04 and MH09	040	0 days	NA	NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20 248		0 days	100%	
W-1511f	Additional Trial Pit between MHD9.5 and MHA04	040	0 days	NA	NA	25 days	Fri 21/8/20	Fri 18/9/20	Fri 21/8/20	Fri 18/9/20 245		0 days	100%	i i i i i i i i i i i i i i i i i i i
	Sheetpile installation for MHD9.5		0 days	NA	NA	38 days	Tue 1/9/20	Fri 16/10/20	Tue 1/9/20	Fri 16/10/20		0 days	100%	
	Sheetpile installation between MHD9.5 & MHA04		0 days?	NA NA	NA NA	25 days	Tue 8/9/20	Thu 8/10/20	Tue 8/9/20	Thu 8/10/20		0 days	100%	i <u> </u>
	UU supporting & ELS works& excavatuib between MHD9.5 & MHA04		0 days?	NA .	NA	73 days	Wed 7/10/20	Mon 4/1/21	Wed 7/10/20	Mon 4/1/21		0 days	100%	
W-1511j	Unsuit excavated material from MHD9.5 to MHA04	261	0 days	NA	NA	4 days	Fri 20/11/20	Tue 24/11/20	Fri 20/11/20	Tue 24/11/20		0 days	100%	
W-1511k	Revise design of manhole MHD9.5	(167)	0 days	NA	NA	20 days	Thu 7/1/21	Fri 29/1/21	Thu 7/1/21	Fri 29/1/21		0 days	100%	
	Break up opening and plugging existing concrete pipe at MHD9.5		0 days?	NA	NA	6 days	Mon 18/1/21	Sat 23/1/21	Mon 18/1/21	Sat 23/1/21		0 days	100%	
			0 daye?	NA	NΔ	12 down	Eri 22/1/21	Eri F/0/04	Eri 20/1/01	Fri 5/2/21		0 dave	100%	u i i i i i i i i i i i i i i i i i i i
	Trimming existing concrete pipe at MHD9.5  Construction of manhole MHD9.5		0 days? 0 days?	NA NA	NA NA	13 days 50 days	Fri 22/1/21 Sat 6/2/21	Fri 5/2/21 Mon 12/4/21	Fri 22/1/21 Sat 6/2/21	Fri 5/2/21 NA		0 days 0 days	100%	
-1511m	Additional work to prevent backflow from MHI1 to MHD9.5	(176)	0 days	NA	NA NA	9 days	Mon 18/1/21	Wed 27/1/21	Mon 18/1/21	Wed 27/1/21		0 days	100%	
V-1511n	Sewage overflow incident of MHD11	(180)	0 days	NA	NA	9 days	Sat 13/2/21	Thu 25/2/21	Sat 13/2/21	Thu 25/2/21		0 days	100%	
-1512	Additional Special manhole for tank drain (NCE)		0 days	NA	NA	35 days	Mon 24/8/20	Mon 5/10/20	Mon 24/8/20	Mon 5/10/20	262,263	0 days	100%	
V-1513	Breaking of concrete surround of cables (0.8mx0.8mx70m) (NCE)		0 days	NA	NA	24 days	Tue 8/9/20	Wed 7/10/20	Tue 8/9/20	Wed 7/10/20 261		0 days	100%	
W-1514 KD1B	Construction of tank drain along revised alignment w/ concrete	051	0 days	NA	NA	10 days	Tue 5/1/21	Fri 15/1/21	Tue 5/1/21	Fri 15/1/21 261	43FF,298	0 days	100%	
	surround								= 1					
W-1516	Backfilling trench between MHD9.5 & MHA04		0 days	NA	NA	20 days	Sat 16/1/21	Mon 8/2/21	Sat 16/1/21	Mon 8/2/21		0 days	100%	
V-1520	Diversion of Sludge Pipes	051	75 days	Tue 21/4/20	Tue 21/7/20	364 days	Mon 11/5/20	Thu 29/7/21	Mon 11/5/20	NA Ward 0.0000	007	0 days	69%	
IW-1520a IW-1520b	Excavation of trial pit and identification of connection point  Trench excavation for twin DN250 sludge pipe ,on hold due to	351 351	0 days 75 days	NA Tue 21/4/20	NA Tue 21/7/20	103 days 4 days	Mon 11/5/20 Wed 15/7/20	Wed 9/9/20 Sat 18/7/20	Mon 11/5/20 Wed 15/7/20	Wed 9/9/20 Sat 18/7/20 266	267 268	0 days 0 days	100%	
VV-13200	encounter of uncharted sludge pipe	331	75 days	100 21/4/20	100 21/1/20	4 days	Wed 13/7/20	Sat 10///20	Wed 13/7/20	Sat 10/7/20/200	200	o days	100 /8	
W-1520c	Additional hole drilling works and identification of connetion point		0 days	NA	NA	53 days	Mon 20/7/20	Fri 18/9/20	Mon 20/7/20	Fri 18/9/20 267	240	0 days	100%	
1,1500	T					407.1	T 00//0/00	W 1040004	T 00/10/00	W 104004 040			1000	
IW-1520d	Temporary diversion of substandard DI 250 Leachate raising main	202	0 days	NA	NA	127 days	Tue 20/10/20	Wed 24/3/21	Tue 20/10/20	Wed 24/3/21 218		0 days	100%	
W-1520e	Protection work for substandard DI 500 tank drain Pipe (near MHD	302	0 days	NA	NA	93 days	Wed 18/11/20	Fri 12/3/21	Wed 18/11/20	Fri 12/3/21 218		0 days	100%	
	9.5)													i i i i i i i i i i i i i i i i i i i
W-1520f	Encounter of uncharted concrete pipe within sheetpile cofferdam at MHA04	214	0 days	NA	NA	2 days	Tue 10/11/20	Wed 11/11/20	Tue 10/11/20	Wed 11/11/20	272	0 days	100%	
CIW-1520g	Resumption and construction of sludge pipe construction		0 days	NA	NA	253 days	Sat 19/9/20	Thu 29/7/21	Sat 19/9/20	NA 271	298.44FF	-36 days	23%	
CIW-1530	Diversion of Leachate Rising Main		60 days	Tue 21/4/20	Fri 3/7/20	60 days	Tue 14/9/21	Thu 25/11/21	NA NA	NA 231	250,7111	-135 days	0%	
CIW-1600	Diversion of pipelines near Primary Sludge Thickeners (approx.		156 days	Thu 6/2/20	Fri 14/8/20	596 days	Tue 26/11/19	Sat 27/11/21	Tue 26/11/19	NA		-137 days	31%	
	180m long 150mm to 375mm concrete pipes)													
CIW-1610	Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs MHD1A, 1B, 1C, 1D & 1E) - realigned		60 days	Thu 6/2/20	Mon 20/4/20	0 days	Tue 26/11/19	Tue 26/11/19	Tue 26/11/19	Tue 26/11/19		0 days	100%	• 26/11
CIW-1620	Manholes construction and Pipe laying		60 days	Mon 30/3/20	Sat 13/6/20	50 days	Tue 2/6/20	Fri 31/7/20	Tue 2/6/20	Fri 31/7/20	43FF,282,277	0 days	100%	
CIW-1621	Temporary Diversion of Existing DN200 Filitrate Rising Main	034	0 days	NA	NA	20 days	Sat 1/8/20	Mon 24/8/20	Sat 1/8/20	Mon 24/8/20 276	278	0 days	100%	
CIW-1623	Pipeline Diversion Works near Primary Sludge Thickening Tank	(114)	0 days	NA	NA	30 days	Fri 16/4/21	Sat 22/5/21	NA	NA 277	279,280	-21 days	0%	
CIW-1624 CIW-1625	Uncharted underground utilities at Proposed MHD5B	0286 0260	0 days 0 days	NA NA	NA NA	41 days 26 days	Mon 24/5/21 Thu 10/6/21	Mon 12/7/21 Mon 12/7/21	NA NA	NA 278 NA 279SS+15 days,278	280SS+15 days 281,284	-21 days	0%	
CIW-1630	Uncharted underground utilities near Proposed MHD5B  Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with	058	60 days	Tue 21/4/20	Fri 3/7/20	32 days	Thu 10/6/21	Wed 29/4/20	Thu 19/3/20	Wed 29/4/20 280	281,284	0 days	100%	
	M/Hs M1A to M3B)	1			1	02 00,0						,-		
CIW-1640	Manholes construction and Pipe laying	058	25 days	Mon 15/6/20	Wed 15/7/20	12 days	Mon 4/5/20	Sat 16/5/20	Mon 4/5/20	Sat 16/5/20 281,276	43FF	0 days	100%	
CIW-1650	Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with M/Hs MHD5A & 5B)		50 days	Thu 16/7/20	Fri 11/9/20	50 days	Wed 2/9/20	Mon 2/11/20	Wed 2/9/20	Mon 2/11/20 281,287,292,294,296	323SS	0 days	100%	
DIW-1660	Provision of Pumping System from Screen to Flume Channel	87	0 days	NA	NA	287 days	Tue 10/11/20	Thu 28/10/21	Tue 10/11/20	NA 280	285	-111 days	0%	
CIW-1670	Manholes construction and Pipe laying	0,	45 days	Sat 23/5/20	Thu 16/7/20	50 days	Tue 3/11/20	Sat 27/11/21	Tue 3/11/20	NA 284	44FF	-137 days	48%	
	Decommission and Demolition of Existing Faciliates and Structures		240 days	Mon 2/3/20	Fri 18/12/20	222 days	Thu 19/3/20	Tue 15/12/20	Thu 19/3/20	Tue 15/12/20 6,118,156		0 days	100%	
	let Works No.1 Building (1)		569 days	Sat 19/12/20	Mon 21/11/22	798 days	Wed 2/9/20	Mon 15/5/23	Wed 2/9/20	NA 6		222 days	12%	
	Predrilling (10nrs, 3rigs, 2.5days/drillhole/rig) - stage 1  Predrilling (22nrs, 3rigs, 2.5days/drillhole/rig) - stage 2		40 days	Mon 4/1/21 NA	Mon 22/2/21	28 days	Tue 15/9/20	Mon 19/10/20	Tue 15/9/20	Mon 19/10/20 238,240,263,272,218		0 days	1 100%	
			0 days 133 days	NA Tue 23/2/21	NA Wed 4/8/21	60 days 250 days	Tue 8/12/20 Fri 19/2/21	Mon 22/2/21 Sat 18/12/21	Tue 8/12/20 Fri 19/2/21	Mon 22/2/21 NA 218,128	301SS+80 days,302	0 days -117 days	100% 5 20%	
V-3100a P					Fri 3/9/21	21 days	Sat 29/5/21	Wed 23/6/21	NA NA	NA 300SS+80 days	303	183 days	0%	
V-3100a P V-3200 P	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1		26 days	Thu 5/8/21			Mon 20/12/21	Sat 15/1/22	NA	NA 300	305,318,304	-117 days	0%	
V-3100a P V-3200 P V-3400a P V-3400b P	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1 Pile Load Test at stage 2 & 3		26 days 0 days?	NA	NA	21 days								
F-3100a P F-3200 P F-3400a P F-3400b P F-3300a S	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1 =   Pile Load Test at stage 2 & 3 Sheetpile Installation at Phase C(900sq.m, 1rigs, 50sqm/rig/day)		26 days 0 days? 80 days	NA Tue 23/3/21		30 days	Thu 24/6/21	Thu 29/7/21	NA	NA 301	306,306	183 days	0%	
V-3100a P V-3200 P V-3400a P V-3400b P V-3300a S V-3300b S	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1 Pile Load Test at stage 2 8 3 Sheetpile Installation at Phase C (900sq.m, 1rigs, 50sqm/rig/day) Sheetpile Installation at Phase B (2900sq.m, 1		26 days 0 days? 80 days 0 days?	NA Tue 23/3/21 NA	NA Wed 30/6/21 NA	30 days 50 days	Mon 17/1/22	Fri 18/3/22	NA	NA 302	306,306 307	-117 days	0%	
W-3100a P W-3200 P W-3400a P W-3400b P W-3300a S W-3300b S W-3500 E	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1 Pile Load Test at stage 2 & 3 Sheetpile Installation at Phase C (900sq.m, 1rigs, 50sqm/rig/day) Sheetpile Installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day) ELS works (strutting 4 layers, excavate soil 7445cu.m)		26 days 0 days? 80 days 0 days? 77 days	NA Tue 23/3/21	NA	30 days 50 days 127 days					307			
W-3100a P W-3200 P W-3400a P W-3400b P W-3400b S W-3300a S W-3300b S W-3500 E	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1 Pile Load Test at stage 2 8 3 Sheetpile Installation at Phase C (900sq.m, 1rigs, 50sqm/rig/day) Sheetpile Installation at Phase B (2900sq.m, 1		26 days 0 days? 80 days 0 days?	NA Tue 23/3/21 NA Sat 4/9/21	NA Wed 30/6/21 NA Mon 6/12/21	30 days 50 days	Mon 17/1/22 Mon 17/1/22	Fri 18/3/22 Fri 24/6/22	NA NA	NA 302 NA 302		-117 days -67 days	0% 5 0%	
W-3100a P W-3200 P W-3200 P W-3400a P W-3400b P W-3300a S W-3300b S W-3500 E W-3510 W-3520 W-3520 R	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1 Pile Load Test at stage 2 8 3 Sheetpile Installation at Phase C (900sq.m, 1rigs, 50sqm/rig/day) Sheetpile Installation at Phase B (2300sq.m, 1rigs, 50sqm/rig/day) ELS works (strutting 4 layers, excavate soil 7445cu.m) Phrase C (Grid G3 to L7) - Excavation to -3.3mPD and blinding Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding R.C. Structure works		26 days 0 days? 80 days 0 days? 77 days 77 days 77 days 296 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Fri 4/6/21 Thu 5/8/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22	30 days 50 days 127 days 77 days 77 days 310 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23	NA NA NA NA	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178	307	-117 days -67 days 43 days -199 days 0 days	0% 5 0% 0% 0% 5 0%	
N-3100a P N-3200 P N-3200 P N-3400b P N-3400b P N-3300a S N-3500 S N-3500 E N-3510 P N-3610 R	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8 3  Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  ELS works (strutting 4 layers, excavate soil 7445cu.m)  Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to L7)		26 days 0 days? 80 days 9 days? 77 days 77 days 77 days 296 days 105 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/8/21 Thu 5/8/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21	30 days 50 days 127 days 77 days 77 days 310 days 105 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22	NA NA NA NA NA	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA	307 310 314	-117 days -67 days 43 days -199 days 0 days 43 days	0% 5 0% 0% 0%	
J-3100a P J-3200 P J-3400a P J-3400a P J-3400b P J-3400b S J-3300a S J-3300b S J-3500 E J-3500 R J-3500 R J-3500 R J-3611	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8  Sheetpile Installation at Phase B (2 900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile Installation at Phase B (2 900sq.m, 1rigs, 50sqm/rig/day)  ELS works (strutting 4 layers, excavate soil 7445cu.m)  Phrase C (Grid G3 to LT)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to LT)  Rebar fix and formwork and concreting for the pile cap (GiF)		26 days 0 days? 80 days 90 days? 77 days 77 days 77 days 105 days 105 days 40 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/8/21 Thu 5/8/21 Thu 5/8/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Mon 20/9/21	30 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Mon 25/4/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22	NA NA NA NA NA NA	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA	307 310 314	-117 days -67 days 43 days -199 days 0 days 43 days 43 days	5 0% 5 0% 0% 0% 5 0% 0% 0% 0% 0%	
-3100a P -3200 P -3400b P -3400b P -3400b S -3300a S -33000 E -33500 E -3510 -3610 -3611 -36611	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1 Pile Load Test at stage 2 8 3 Sheetpile installation at Phase C (900sq.m, 1rigs, 50sqm/rig/day) Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day) ELS works (strutting 4 layers, excavate soil 7445cu.m) Phrase C (Grid G3 to I.7) - Excavation to -3.3mPD and blinding Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding R.C. Structure works Phase C (Grid G3 to I.7) Rebar fix and formwork and concreting for the pile cap (G/F) Rebar fix and formwork and concreting upto +13.45mPD (1/F)		26 days 0 days? 80 days 9 days? 77 days 77 days 77 days 296 days 105 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/8/21 Thu 5/8/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21	30 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days 25 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22	NA NA NA NA NA	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA	307 310 314	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days	0% 5 0% 0% 0% 5 0%	
J-3100a P J-3200 P J-3400a P J-3400a P J-3400a P J-3400b P J-3300a S J-3300b S J-3300b S J-3500 E J-3510 P J-3600 R J-3611 P J-3611 P J-3613 KD1C	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8  Sheetpile Installation at Phase B (2 900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile Installation at Phase B (2 900sq.m, 1rigs, 50sqm/rig/day)  ELS works (strutting 4 layers, excavate soil 7445cu.m)  Phrase C (Grid G3 to LT)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to LT)  Rebar fix and formwork and concreting for the pile cap (GiF)		26 days 0 days? 80 days 0 days 77 days 77 days 77 days 105 days 40 days 296 days 40 days 25 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/8/21 Thu 5/8/21 Thu 5/8/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Mon 20/9/21 Fri 22/10/21	30 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22 Wed 13/7/22	NA NA NA NA NA NA	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311	307 310 314 311 312	-117 days -67 days 43 days -199 days 0 days 43 days 43 days	5 0% 5 0% 0% 0% 5 0% 0% 5 0% 0% 0%	
P-3100a PP -3200 PP -33400b PP -33400b PP -33400b SS -33900b SS -33500 EP -33510 PP -33610 PP -33611 PP -33613 KD1C	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1 Pile Load Test at stage 2 & 3  Sheetpile installation at Phase C (900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile installation at Phase B (2000sq.m, 1rigs, 50sqm/rig/day)  ELS works (Strutting 4 layers, excavate soil 7445cu.m)  Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting for the pile cap (QrF)  Rebar fix and formwork and concreting upto +13.45mPD (1/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)		26 days 0 days? 80 days 0 days? 77 days 77 days 77 days 105 days 105 days 40 days 40 days 40 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Sat 23/10/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Mon 20/9/21 Fri 22/10/21 Wed 8/12/21	30 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days 25 days 40 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Thu 14/7/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22 Wed 13/7/22 Mon 29/8/22	NA NA NA NA NA NA NA NA NA NA	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311	307 310 314 311 312	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days	5 0% 5 0% 0% 0% 5 0% 0% 5 0% 0% 0% 0%	
P.3100a P.3200 P.33000 P.33000 P.33400a P.33400a P.33400a S.33500 E.33500 E.33500 P.33500 re-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8 3  Sheetpile installation at Phase B (2905q.m, 1rigs, 50sqm/rig/day)  Sheetpile installation at Phase B (2905q.m, 1rigs, 50sqm/rig/day)  Ets works (strutting 4 layers, excavate soil 7445q.m.)  Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting for the pile cap (G/F)  Rebar fix and formwork and concreting upto +13.45mPD (1/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level		26 days 0 days? 80 days 0 days? 77 days 77 days 77 days 296 days 105 days 40 days 40 days 40 days 40 days 40 days 40 days 40 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Mon 22/10/21 Wed 8/12/21 Thu 4/8/22 Mod 8/12/21 Thu 4/8/22 Mon 14/2/22	30 days 50 days 127 days 127 days 77 days 77 days 310 days 105 days 40 days 25 days 40 days 193 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Thu 14/7/22 Wed 5/1/22 Sat 25/6/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22 Wed 13/7/22 Mon 29/8/22 Tue 30/8/22 Sat 27/8/22	NA NA NA NA NA NA NA NA NA NA NA NA NA	NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307	307 310 314 311 312 44FF,321	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days 43 days 43 days -117 days	5 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		
3100a P 3200 P 3200 P 3400a P 3400b P 3400b P 3300a S 3300b S 3500 E 3510 3610 R 3611 3611 3613 KDIC 3622	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8  Sheetpile Installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile Installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  ELS works (strutting 4 layers, excavate soil 7445cu.m)  Phrase C (Grid G3 to L7)  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting to the pile cap (G/F)  Rebar fix and formwork and concreting upto +13.45mPD (1/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting for the liet Works structure upto Ground Level  Apply waterproofing membrance and backfilling		26 days 0 days? 0 days? 77 days 77 days 77 days 77 days 296 days 40 days 40 days 40 days 193 days 144 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Mon 20/9/21 Wed 8/12/21 Thu 4/8/22 Mon 14/2/22 Wed 2/3/22	30 days 50 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days 25 days 40 days 193 days 14 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Thu 14/7/22 Wed 5/1/22 Sat 25/6/22 Mon 29/8/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22 Wed 13/7/22 Mon 29/8/22 Tue 30/8/22 Sat 27/8/22 Wed 14/9/22	NA NA NA NA NA NA NA NA	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307	307 310 314 311 312 44FF,321 315	-117 days -67 days 43 days 43 days 0 days 0 days 43 days 43 days 43 days 43 days 40 days 41 days 42 days 43 days 41 days 42 days 43 days 43 days 43 days	5 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	
P-3100a P-3100a P-3100a P-3100a P-3100a P-3100a P-31000 P-3100	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8 3  Sheetpile installation at Phase B (2905q.m, 1rigs, 50sqm/rig/day)  Sheetpile installation at Phase B (2905q.m, 1rigs, 50sqm/rig/day)  Ets works (strutting 4 layers, excavate soil 7445q.m.)  Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting for the pile cap (G/F)  Rebar fix and formwork and concreting upto +13.45mPD (1/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level		26 days 0 days? 80 days 0 days? 77 days 77 days 77 days 296 days 105 days 40 days 40 days 40 days 40 days 40 days 40 days 40 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Mon 22/10/21 Wed 8/12/21 Thu 4/8/22 Mod 8/12/21 Thu 4/8/22 Mon 14/2/22	30 days 50 days 127 days 127 days 77 days 77 days 310 days 105 days 40 days 25 days 40 days 193 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Thu 14/7/22 Wed 5/1/22 Sat 25/6/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22 Wed 13/7/22 Mon 29/8/22 Tue 30/8/22 Sat 27/8/22	NA NA NA NA NA NA NA NA NA NA NA NA	NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307	307 310 314 311 312 44FF,321	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days 43 days 43 days -117 days	5 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	
W-3100a PP W-3200 PP W-3400b PP W-3400a S W-3300a S W-3500 E W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3511 W-3512 W-3513 KD1C W-3523 KD1C W-3623 KD1C W-3623 KD1C W-3630	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1 Pile Load Test at stage 2 S 3 Sheetpile installation at Phase B (2005q.m. frigs, 50sqm/rig/day) Sheetpile installation at Phase B (2005q.m. frigs, 50sqm/rig/day) ELS works (Strutting 4 layers, excavate soil 7445q.m.) Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding RC. Structure works  Phase C (Grid G3 to L7) Rebar fix and formwork and concreting for the pile cap (G/F) Rebar fix and formwork and concreting upto +13.45mPD (1/F) Rebar fix and formwork and concreting upto +25.80mPD (R/F) Phase B (Gride A1 to G3) Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level Apply waterproofing membrance and backfilling Rebar fix and formwork and concreting for the Inlet Works structure		26 days 0 days? 0 days? 77 days 77 days 77 days 77 days 296 days 40 days 40 days 40 days 193 days 144 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22 Thu 3/3/22 Thu 16/9/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Mon 20/9/21 Thu 4/8/22 Wed 8/12/21 Thu 4/8/22 Mon 14/2/22 Wed 2/3/22 Thu 4/8/22 Thu 4/8/22	30 days 50 days 127 days 77 days 77 days 310 days 310 days 40 days 40 days 40 days 193 days 14 days 14 days 15 days 173 days 173 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Thu 14/7/22 Wed 5/1/22 Sat 25/6/22 Mon 29/8/22	Fri 18/3/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22 Wed 13/7/22 Tue 30/8/22 Used 14/9/22 Fri 20/1/23 Thu 18/8/22	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307 NA 314,175 NA 315	307 310 314 311 312 44FF,321 315 316 321,322,44FF	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days 43 days 117 days -117 days -117 days -117 days 52 days	5 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	
W-3100a PP W-3200 PP W-3400b PP W-3400a S W-3300a S W-3500 E W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3510 W-3511 W-3512 W-3513 KD1C W-3523 KD1C W-3623 KD1C W-3623 KD1C W-3630	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8  Sheetpile installation at Phase B (2905q.m, 1rigs, 50sqm/rig/day)  Sheetpile installation at Phase B (2905q.m, 1rigs, 50sqm/rig/day)  ELS works (Struttling 4 layers, excavate soil 7445q.m.)  Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  RC. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting for the pile cap (G/F)  Rebar fix and formwork and concreting upto +13.45mPD (1/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level  Phase A (G1 to L3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level		26 days O days? 80 days O days? 77 days 77 days 77 days 40 days 40 days 40 days 40 days 40 days 193 days 14 days 14 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22 Thu 3/3/22	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Mon 20/9/21 Fri 22/10/21 Wed 8/12/21 Thu 4/8/22 Mon 14/2/22 Wed 2/3/22 Thu 4/8/22	30 days 50 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days 40 days 40 days 40 days 193 days 14 days 14 days 15 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Tue 14/6/22 Tue 14/6/22 Tue 14/6/22 Sat 25/6/22 Mon 29/8/22 Thu 15/9/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Wed 13/7/22 Mon 29/8/22 Tue 30/8/22 Sat 27/8/22 Wed 14/9/22 Fri 20/1/23	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307	307 310 314 311 312 44FF,321 315	-117 days -67 days 43 days 43 days 0 days 43 days 43 days 43 days 43 days 41 days 42 days -117 days -117 days -117 days	5 0% 5 0% 0% 5 0% 5 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0%	
IW-3100a P IW-3200 P IW-3200 P IW-3400b P IW-3400b P IW-3400b P IW-3400b P IW-3500 S IW-3500 E IW-3510 IW-3520 P IW-3510 IW-3611 IW-3611 IW-3612 IW-3613 KD1C IW-3623 KD1C IW-3623 KD1C IW-3623 IW-362	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8  Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  Ets works (strutting 4 layers, excavate soil 7445cu.m)  Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  Rebar fix and formwork and concreting for the pile cap (G/F)  Rebar fix and formwork and concreting upto +12.45mPD (1/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting for the lnlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the lnlet Works structure upto Roof Level  Phase A (G1 to L3)  Rebar fix and formwork and concreting for the lnlet Works structure upto Roof Level		26 days O days? O days? O days? 77 days 77 days 77 days 77 days 40 days 40 days 40 days 40 days 40 days 193 days 14 days 15 days 260 days 54 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22 Thu 3/3/22 Thu 16/9/21 Tue 7/12/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Hon 22/10/21 Wed 8/12/21 Wed 8/12/21 Thu 4/8/22 Mon 14/2/22 Thu 4/8/22 Thu 4/8/22 Mon 14/2/22 Mon 14/2/22	30 days 50 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days 40 days 40 days 193 days 54 days 154 days 154 days 154 days 155 days 154 days 155 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 25/4/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Tue 14/6/22 Thu 14/7/22 Wed 5/1/22 Wed 5/1/22 Thu 15/6/22 Thu 15/9/22 Mon 29/8/22 Thu 15/9/22 Mon 17/1/22	Fri 18/3/22 Fri 24/6/22 Sat 23/4/22 Fri 24/6/22 Fri 20/1/23 Mon 13/6/22 Wed 13/7/22 Mon 29/8/22 Tue 30/8/22 Sat 27/8/22 Fri 20/1/23 Thu 18/8/22 Wed 23/3/22	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307 NA 314,175 NA 315 NA NA 302	307 310 314 311 312 44FF,321 315 316 321,322,44FF	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days 43 days 41 days -117 days -117 days -117 days 52 days	5 0% 5 0% 0% 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	
N-3100a PP N-3200 PP N-3400a PP N-3400b PP N-3400b S N-3500 S N-3500 F N-3500 F N-3500 F N-3501 N-3600 F N-3601 N-3611 N-3612 N-3622 KD1C N-3631 KD1C N-3631 KD1C N-3631	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8.3  Sheetpile Installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile Installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  ELS works (strutting 4 layers, excavate soil 7445cu.m)  Phrase C (Grid G3 to L7)  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting to the pile cap (G/F)  Rebar fix and formwork and concreting upto +13.45mPD (1/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Bround Level  Phase A (G1 to L3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Bround Level  Phase A (G1 to L3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level		26 days 0 days? 0 days? 77 days 77 days 77 days 77 days 296 days 105 days 40 days 25 days 14 days 14 days 260 days 14 days 14 days 14 days 14 days 14 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22 Thu 3/3/22 Thu 16/9/21	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Mon 20/9/21 Thu 4/8/22 Wed 8/12/21 Thu 4/8/22 Mon 14/2/22 Wed 2/3/22 Thu 4/8/22 Thu 4/8/22	30 days 50 days 127 days 77 days 77 days 77 days 105 days 105 days 40 days 25 days 40 days 193 days 14 days 15 days 173 days 14 days 14 days 14 days 14 days 14 days 14 days 14 days 14 days 14 days 14 days 14 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Mon 25/4/22 Tue 14/6/22 Thu 14/7/22 Wed 5/1/22 Sat 25/6/22 Mon 29/8/22 Thu 15/9/22 Mon 17/1/22	Fri 18/3/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22 Wed 13/7/22 Tue 30/8/22 Used 14/9/22 Fri 20/1/23 Thu 18/8/22	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307 NA 314,175 NA 315	307 310 314 311 312 44FF,321 315 316 321,322,44FF	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days 43 days 117 days -117 days -117 days -117 days 52 days	5 0% 5 0% 0% 5 0% 0% 5 0% 0% 0% 0% 0% 0% 0% 0%	
IW-3100a P IW-3200 P IW-3200 P IW-3400b P IW-3400b P IW-3400b S IW-3500 E IW-3510 IW-3510 IW-3610 P IW-3610 IW-3611 IW-3612 IW-3613 KD1C IW-3620 IW-3621 IW-3623 KD1C IW-3623 IW-3623 IW-3623 IW-3623 IW-3633 KD1C IW-3633 IW-3633 KD1C IW-3633 IW-3633 KD1C IW-3633 IW-3633 KD1C IW-3633 IW-3633 KD1C IW-3633 IW-3633 KD1C IW-3633 IW-3633 KD1C IW-3633 IW-36	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8 3  Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  ELS works (strutting 4 layers, excavate soil 7445cu.m)  Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting for the pile cap (G/F)  Rebar fix and formwork and concreting upto +13.45mPD (f/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the linlet Works structure upto Roof Level  Phase A (G1 to L3)  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level		26 days O days? O days? O days? 77 days 77 days 77 days 77 days 40 days 40 days 40 days 40 days 40 days 193 days 14 days 15 days 260 days 54 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22 Thu 16/9/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22 Thu 16/9/21 Tue 7/12/21 Tue 15/2/22	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Fri 22/10/21 Fri 22/10/21 Thu 4/8/22 Mon 14/2/22 Wed 2/3/22 Thu 4/8/22 Thu 4/8/22 Wed 2/3/22 Thu 4/8/22 Wed 2/3/22 Wed 2/3/22 Wed 2/3/22 Wed 2/3/22 Wed 2/3/22	30 days 50 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days 40 days 40 days 193 days 54 days 154 days 154 days 154 days 155 days 154 days 155 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Thu 14/6/22 Wed 5/1/22 Sat 25/6/22 Mon 29/8/22 Thu 15/9/22 Mon 17/1/22 Mon 17/1/22 Thu 14/7/22 Thu 15/9/22	Fri 18/3/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 20/1/23 Mon 29/6/22 Mon 13/6/22 Wed 13/7/22 Wed 13/7/22 Tue 30/8/22 Tue 30/8/22 Fri 20/1/23 Thu 18/8/22 Wed 23/3/22 Thu 18/8/22 Thu 18/8/22 Thu 18/8/22	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 302 NA 302 NA 303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307 NA 314,175 NA 315 NA NA 302 NA 318,175 NA 319	307 310 314 311 312 44FF,321 315 316 321,322,44FF 319 320 322,44FF,321	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 40 days -117 days -117 days -117 days -117 days -117 days -12 days 52 days 52 days	5 0% 5 0% 0% 5 0% 5 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	
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N-3100a PP N-3200 PP N-3200 PP N-3400b PP N-3400b PP N-3300a SS N-3500 E N-3510 PP N-3500 PP N-3500 PP N-3500 PP N-3500 PP N-3500 PP N-3510 PP N-3	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8 3  Sheetpile installation at Phase B (2905q.m, 1rigs, 50sqm/rig/day)  Sheetpile installation at Phase B (2905q.m, 1rigs, 50sqm/rig/day)  ELS works (Struttling 4 layers, excavate soil 7445q.m.)  Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  RC. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting for the pile cap (G/F)  Rebar fix and formwork and concreting upto +13.45mPD (1/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level  Phase A (G1 to L3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling		26 days 0 days? 80 days 0 days? 77 days 77 days 77 days 77 days 105 days 105 days 105 days 40 days 40 days 54 days 105 days 54 days 105 days 54 days 105 days 105 days 50 days 105 days 105 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 7/12/21 Tue 7/12/21 Tue 7/12/21 Tue 7/12/21 Thu 15/2/22 Thu 3/3/22 Thu 15/2/22 Thu 3/3/22 Thu 15/2/22 Thu 15/2/22 Thu 15/2/22	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Thu 4/8/22 Wed 8/12/21 Thu 4/8/22 Mon 14/2/22 Mon 14/2/22 Thu 4/8/22 Thu 4/8/22 Thu 4/8/22 Thu 4/8/22 Thu 4/8/22 Thu 4/8/22	30 days 50 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days 193 days 54 days 14 days 154 days 14 days 14 days 154 days 155 days 0 days 0 days 173 days 54 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Sat 19/3/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Tue 14/6/22 Thu 14/7/22 Sat 25/6/22 Mon 29/8/22 Thu 15/9/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Fri 20/1/23	Fri 18/3/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Wed 13/7/22 Mon 13/6/22 Mon 13/6/22 Fri 20/1/23 Tru 30/8/22 Fri 20/1/23 Thu 18/8/22 Thu 18/8/22 Thu 18/8/22 Thu 18/8/22 Fri 20/1/23	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307 NA 314,175 NA 315 NA NA 302 NA 319 NA 320,316,312	307 310 314 311 312 44FF,321 315 316 321,322,44FF 319 320 322,44FF,321 44FF	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days 43 days 52 days -117 days -117 days -117 days -117 days -12 days 52 days 52 days 52 days 52 days	5 0% 5 0% 0% 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	\$\frac{1}{2}\frac{1}{2
W-3100a PP W-3200 PP W-3200 PP W-3400b PP W-3400b PP W-3400b PP W-3300a SS W-3500 E W-3510 PP W-3510 PP W-3510 PP W-3610 PP W-3610 PP W-3611 PP W-	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8 3  Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  ELS works (strutting 4 layers, excavate soil 7445cu.m)  Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding  Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting for the pile cap (G/F)  Rebar fix and formwork and concreting upto +13.45mPD (f/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3)  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the linlet Works structure upto Roof Level  Phase A (G1 to L3)  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the linlet Works structure upto Ground Level		26 days O days? O days? 77 days 77 days 77 days 77 days 296 days 40 days 40 days 40 days 40 days 40 days 193 days 54 days 14 days 54 days 14 days 14 days 14 days 14 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22 Thu 3/3/22 Thu 15/2/22 Thu 13/3/22 Thu 15/2/22 Thu 3/3/22	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Hon 22/10/21 Wed 8/12/21 Wed 8/12/21 Thu 4/8/22 Mon 14/2/22 Thu 4/8/22 Thu 4/8/22 Wed 2/3/22 Thu 4/8/22 Wed 2/3/22 Thu 4/8/22 Thu 4/8/22	30 days 50 days 50 days 127 days 77 days 77 days 310 days 105 days 40 days 40 days 193 days 54 days 154 days 154 days 155 days 14 days 154 days 155 days 155 days 155 days 155 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Tue 14/6/22 Wed 5/1/22 Wed 5/1/22 Wed 5/1/22 Mon 29/8/22 Thu 15/9/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Mon 11/4/22	Fri 18/3/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 20/1/23 Mon 29/6/22 Mon 13/6/22 Wed 13/7/22 Wed 13/7/22 Tue 30/8/22 Tue 30/8/22 Fri 20/1/23 Thu 18/8/22 Wed 23/3/22 Thu 18/8/22 Thu 18/8/22 Thu 18/8/22	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 302 NA 302 NA 303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307 NA 314,175 NA 315 NA NA 302 NA 318,175 NA 319	307 310 314 311 312 44FF,321 315 316 321,322,44FF 319 320 322,44FF,321	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days 43 days 52 days -117 days -117 days -117 days -12 days 52 days 52 days 52 days 52 days	5 0% 5 0% 0% 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	
W-3100a PP W-3200 PP W-3400b PP W-3400b PP W-3400b SP W-3500a SS W-3500 E W-3510 W-3510 W-3510 W-3610 W-3611 W-3611 W-3612 W-3612 W-3613 KD1C W-3631 KD1C W-3631 KD1C W-3633 KD1C W-3633 KD1C W-3633 KD1C W-3630 K	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile) Pile Load Test at stage 1 Pile Load Test at stage 2 8 Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day) Sheetpile installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day) ELS works (strutting 4 layers, excavate soil 7445cu.m) Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding R.C. Structure works Phase C (Grid G3 to L7) Rebar fix and formwork and concreting for the pile cap (G/F) Rebar fix and formwork and concreting upto +13.45mPD (1/F) Rebar fix and formwork and concreting upto +25.80mPD (R/F) Phase B (Gride A1 to G3) Rebar fix and formwork and concreting for the lniet Works structure upto Ground Level Apply waterproofing membrance and backfilling Rebar fix and formwork and concreting for the lniet Works structure upto Roof Level Phase A (G1 to L3) Rebar fix and formwork and concreting for the lniet Works structure upto Roof Level Apply waterproofing membrance and backfilling Rebar fix and formwork and concreting for the lniet Works structure upto Roof Level Apply waterproofing membrance and backfilling Rebar fix and formwork and concreting for the lniet Works structure upto Roof Level Apply waterproofing membrance and backfilling Rebar fix and formwork and concreting for the lniet Works structure upto Roof Level Allow access to Contractor DE/2018/04 for E&M installation and T&C works ABWF works + BS works		26 days O days? O days? O days? 77 days 77 days 77 days 296 days 40 days 40 days 40 days 40 days 40 days 193 days 14 days 14 days 14 days 16 days 40 days 54 days 54 days 65 days 66 days 67 days 68 days 69 days 69 days 90 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22 Thu 3/3/22 Thu 15/2/22 Thu 3/3/22 Thu 15/2/22 Thu 3/3/22 Thu 15/2/22 Thu 3/3/22 Thu 15/2/22 Thu 3/3/22 Thu 15/2/22 Thu 15/2/22 Thu 15/2/22 Thu 15/2/22 Thu 15/2/22 Thu 15/2/22	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Thu 4/8/22 Mon 14/2/22 Mon 14/2/22 Thu 4/8/22	30 days 50 days 50 days 127 days 77 days 77 days 77 days 105 days 40 days 25 days 40 days 193 days 54 days 14 days 15 days 14 days 15 days 16 days 173 days 54 days 0 days 90 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Tue 14/6/22 Tue 14/6/22 Thu 14/7/22 Wed 5/1/22 Wed 5/1/22 Mon 29/8/22 Thu 15/9/22 Mon 17/1/22 Mon 17/1/22 Fri 20/1/23 Sat 21/1/23	Fri 18/3/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22 Wed 13/7/22 Wed 13/7/22 Tue 30/8/22 Tue 18/8/22 Fri 20/1/23 Thu 18/8/22 Thu 18/8/22 Fri 20/1/23 Mon 15/5/23	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA,310 NA,311 NA NA 307 NA 314,175 NA 315 NA NA 302 NA 318,175 NA 319 NA 320,316,312 NA 320,179,197,316	307 310 314 311 312 44FF,321 315 316 321,322,44FF 319 320 322,44FF,321 44FF	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days 43 days 52 days -117 days -117 days -117 days -117 days -12 days 52 days 52 days 52 days 52 days 52 days 52 days	5 0% 5 0% 0% 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	\$\frac{1}{2}\$
V-3100a PP V-3200 PP V-3200 PP V-3400b PP V-	Pre-bored H piles (188nos, 1.5rigs, 2days/rig/pile)  Pile Load Test at stage 1  Pile Load Test at stage 2 8.3  Sheetpile Installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  Sheetpile Installation at Phase B (2900sq.m, 1rigs, 50sqm/rig/day)  ELS works (strutting 4 layers, excavate soil 7-445cu.m)  Phrase C (Grid G3 to L7): Excavation to -7.5mPD and blinding  Phrase B (Grid A1 to G3): Excavation to -7.5mPD and blinding  R.C. Structure works  Phase C (Grid G3 to L7)  Rebar fix and formwork and concreting to the pile cap (G/F)  Rebar fix and formwork and concreting upto +13.45mPD (1/F)  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3):  Rebar fix and formwork and concreting upto +25.80mPD (R/F)  Phase B (Gride A1 to G3):  Rebar fix and formwork and concreting for the lnlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Bround Level  Phase A (G1 to L3)  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level  Apply waterproofing membrance and backfilling  Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level		26 days O days? 80 days O days? 77 days 77 days 77 days 77 days 296 days 105 days 40 days 25 days 105 days 14 days 260 days 14 days 260 days 14 days 0 days 0 days 0 days	NA Tue 23/3/21 NA Sat 4/9/21 Fri 4/6/21 Fri 4/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Thu 5/6/21 Tue 21/9/21 Sat 23/10/21 Tue 7/12/21 Tue 7/12/21 Tue 7/12/21 Tue 7/12/21 Tue 15/2/22 Thu 16/9/21 Tue 7/12/21 Tue 15/2/22 Thu 4/6/22 Thu 4/6/22	NA Wed 30/6/21 NA Mon 6/12/21 Mon 6/12/21 Thu 4/8/22 Wed 8/12/21 Thu 4/8/22 Wed 8/12/21 Thu 4/8/22 Wed 8/12/21 Thu 4/8/22 Mon 14/2/22 Mon 14/2/22 Thu 4/8/22	30 days 50 days 50 days 127 days 77 days 77 days 105 days 105 days 40 days 25 days 40 days 193 days 54 days 155 days 14 days 155 days 14 days 155 days 165 days 173 days 54 days 0 days 199 days 0 days	Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Sat 19/3/22 Wed 5/1/22 Wed 5/1/22 Mon 25/4/22 Tue 14/6/22 Thu 14/6/22 Thu 14/6/22 Thu 14/7/22 Sat 25/6/22 Mon 29/8/22 Thu 15/9/22 Mon 17/1/22 Mon 17/1/22 Mon 17/1/22 Thu 24/3/22 Mon 11/4/22 Sat 24/1/23 Wed 29/2/20	Fri 18/3/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 24/6/22 Fri 20/1/23 Mon 29/8/22 Mon 13/6/22 Wed 13/7/22 Mon 29/8/22 Tru 30/8/22 Sat 27/8/22 Wed 14/9/22 Fri 20/1/23 Thu 18/8/22 Wed 23/3/22 Fri 20/1/23 Mon 15/5/23 Mon 15/5/23 Wed 29/9/20	NA	NA 302 NA 302 NA 303,303 NA 304 NA 132,176,177,180,178 NA NA 306 NA 310 NA 311 NA NA 307 NA 314,175 NA 315 NA NA 302 NA 318,175 NA 319 NA 320,316,312 NA 320,316,312 NA 320,179,137,316 Wed 2/9/20 283S	307 310 314 311 312 44FF,321 315 316 321,322,44FF 319 320 322,44FF,321 44FF	-117 days -67 days 43 days -199 days 0 days 43 days 43 days 43 days 43 days -117 days -117 days -117 days -117 days -12 days 52 days 52 days 52 days 52 days 52 days 52 days 52 days 52 days	5 0% 5 0% 0% 0% 5 0% 0% 5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	\$\frac{1}{2}\$

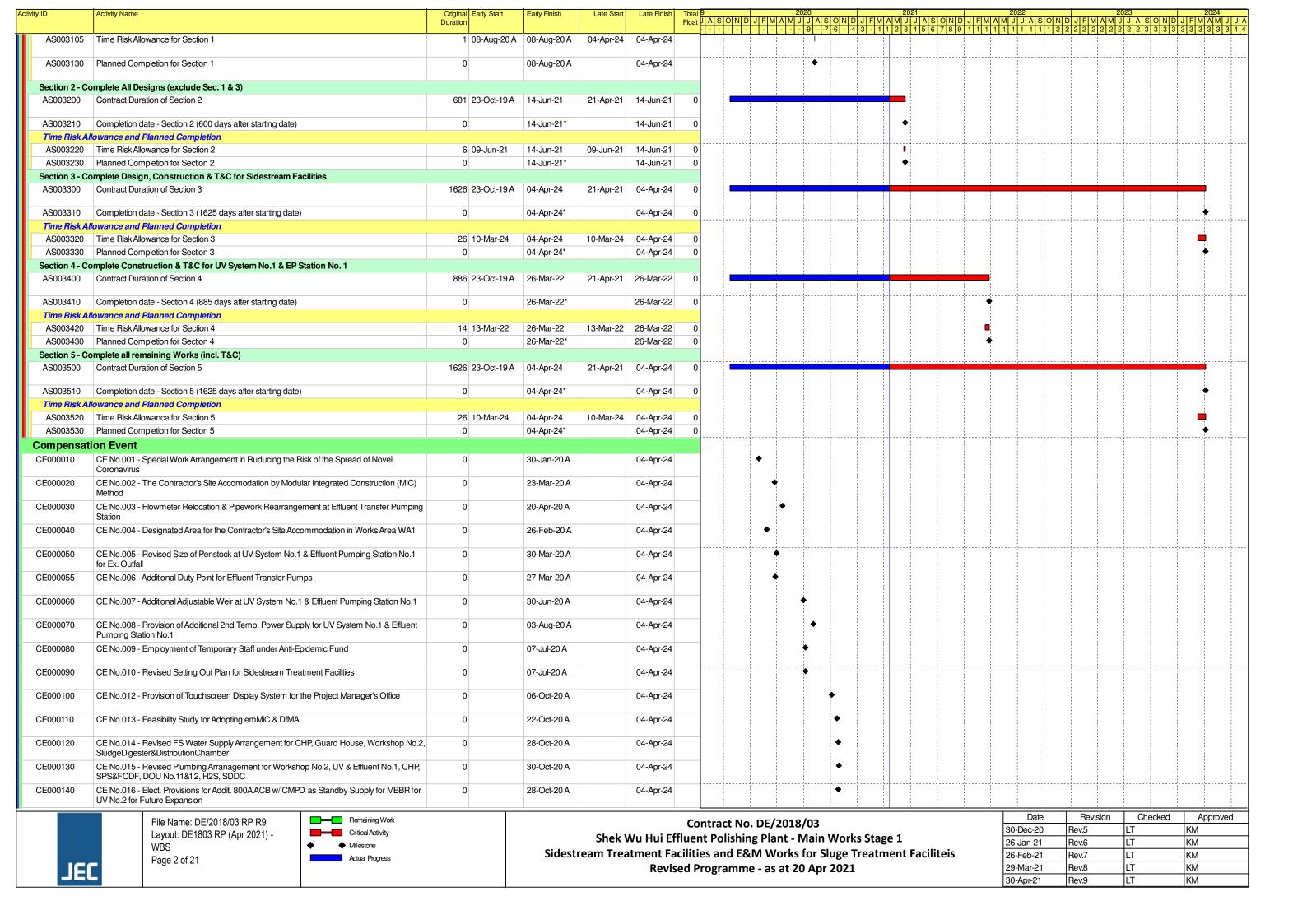
	Plant - Main Works Stage 1 ask Name	Inclement PMI & CE no.	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start A	ctual Finish Predecessors	Successors	Total Slack Risk Allowance % 0	Complete				
Activity ID Key T Date		Inclement PMI & CE no. (NCE no.) CE no.	. baseline Duration	baseline Start	baseline Hinish	Duration	лап	rinish	HULUAI START A	ctual FITIISTI PRECECSSOFS	Successors	HISK Allowance % (	Complete	1st Quarter	1st Quarter	1st Quarter	1st Quarter 1st Quarter
PS-1100		(NCE no.) 88	0 days	NA	NA	3 days	Fri 19/2/21	Mon 22/2/21	Fri 19/2/21	Mon 22/2/21		0 days	July 100%		anuary July	January July	January July January July
PS-1200	Reinstatement and re-commissioning of existing Primary Sedimentation Tank No. 4 and 6 (by others)		0 days	NA	NA	90 days	Mon 3/5/21	Wed 18/8/21	NA	NA	328SS+30 days,329	1 day	0%		-	1 1 1	
S-2000 S-2000a	Demolition of existing primary sedimentation tanks no. 1  Demolition of existing primary sedimentation tanks no. 2		45 days 0 days	Mon 13/12/21 NA	Wed 9/2/22 NA	30 days	Mon 26/7/21 Thu 19/8/21	Sat 28/8/21 Thu 16/9/21	NA NA	NA 118,156,158,327SS+30 days,325 NA 327	33	1402 days 1 day	0%	1	1 : -	1	
S-3000a	Predrilling (5nrs, 1rigs, 3days/drillhole/rig) - In-advanced stage		0 days	NA NA	NA NA	25 days 15 days	Thu 8/4/21	Sat 24/4/21	NA NA	NA 327	332	159 days	0%				
S-3000	Predrilling (63nrs, 3rigs, 3days/drillhole/rig)		38 days	Thu 10/2/22	Fri 25/3/22	38 days	Fri 17/9/21	Wed 3/11/21	NA	NA 123,434,329	332	1 day 1	0%	1	T : =	1	1
S-4000	Pre-bored H piles (205nos, 4rigs, 2days/pile/rig)		102 days	Sat 26/3/22	Mon 1/8/22	102 days	Thu 4/11/21	Wed 9/3/22	NA	NA 128,435,330,331	333FS-40 days,335,334	1 day 5	0%				
PS-5000 PS-6000	Sheetpile Installation (FSP-II, 3360sq.m, 1rigs, 50sqm/rig/day) Pile Load Test		85 days 26 days	Wed 25/5/22 Tue 2/8/22	Fri 2/9/22 Wed 31/8/22	85 days 26 days	Wed 19/1/22 Thu 10/3/22	Fri 6/5/22 Sat 9/4/22	NA NA	NA 332FS-40 days,129 NA 332	335,340SS+45 days 335	1 day 20 days	0%				
S-7000	ELS works (20000cu.m soil with 2 layers wailing / strutting)		45 days	Sat 3/9/22	Fri 28/10/22	45 days	Sat 7/5/22	Thu 30/6/22	NA NA	NA 332,131,334,333	336	1 day 3	0%		i i		
S-8000 KD1D	R.C. Structure works		92 days	Sat 29/10/22	Mon 20/2/23	190 days	Sat 2/7/22	Sat 18/2/23	NA	NA 335,133	337,338,45FF,339	1 day 3	0%		1		
S-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	Sat 18/2/23	Sat 18/2/23	NA	NA 336	45FF	1 day	0%				♦ 18/2
S-10000 SW1 S-11000 SW1	ABWF works + BS works Flowmeter Chamber no.1		150 days 60 days	Tue 21/2/23 Tue 21/2/23	Wed 23/8/23 Sat 6/5/23	150 days 60 days	Mon 20/2/23 Mon 20/2/23	Tue 22/8/23 Fri 5/5/23		NA 336,179,137 NA 336	56FF 56FF	140 days 230 days	0%				
-12000 SW2	Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHI chainage 0-95		0 days	NA NA	NA NA	100 days	Wed 16/3/22	Tue 19/7/22		NA 333SS+45 days	57FF	3 days	0%		i		
	& CHJ chianage 0-40														]	I	
-0000 * -1000	Bioreactors No.2A & 2B, B-4 (3)  Operation of 2no. Existing 800mm air mains over bioreactor no.2		1106 days 360 days	Mon 18/11/19 Mon 18/11/19	Sat 12/8/23 Wed 11/11/20	1352 days 360 days	Mon 18/11/19 Mon 18/11/19	Fri 21/6/24 Wed 11/11/20	Mon 18/11/19 Mon 18/11/19	NA 9 Wed 11/11/20 2		582 days 0 days	35% 100%		9	Ī	1
2000	Construction of Removable Steel Shutter in the Common Channel of BR2	67	0 days	NA NA	NA	86 days	Thu 1/10/20	Fri 15/1/21	Thu 1/10/20	Fri 15/1/21 140	353	0 days	100%			I I	
	and 3											· .		i i	i	i	i i
-4100	Take Down E&M Equipment & cables in Bioreactor BR2 and Return to DSD	95	0 days	NA	NA	90 days	Thu 15/10/20	Mon 1/2/21	Thu 15/10/20	Mon 1/2/21	354	0 days	100%			I	
R-4200	Installation of monitoring points before demolition of BR2	219	0 days	NA	NA	5 days	Wed 27/1/21	Mon 1/2/21	Wed 27/1/21	Mon 1/2/21 351	346	0 days	100%	i i	i	i	i i
-4300	Condition Survey for BR2		0 days	NA	NA	1 day	Fri 30/10/20	Fri 30/10/20		Fri 30/10/20 345	354	0 days	100%				
-5000	Demolition of existing bioreactor no.2		60 days	Wed 3/2/21	Tue 20/4/21	98 days	Tue 10/11/20	Wed 10/3/21	Tue 10/11/20	Wed 10/3/21 118,158		0 days	100%		1	1	į i
5100 5300	Identification and removal of existing cables on air main pipe bridge Plugging and demolition of existing DN800 air main	210	0 days 0 days	NA NA	NA NA	35 days 5 days	Tue 10/11/20 Mon 28/12/20	Sat 19/12/20 Sat 2/1/21		Sat 19/12/20 Sat 2/1/21 348	349,353	0 days 0 days	100%			1	
5200	Diversion of existing lighting cable and Earthing ducts_stage 1	264	0 days	NA NA	NA NA	5 days 43 days	Fri 4/12/20	Sat 2/1/21 Tue 26/1/21	Fri 4/12/20	Sat 2/1/21 348 Tue 26/1/21 351	354	0 days	100%	-	1	1	
5400	Overflow incident from BR1 to BR2 works area no.1 (Dec 2020)	285	0 days	NA	NA	33 days	Fri 18/12/20	Thu 28/1/21	Fri 18/12/20	Thu 28/1/21 352	345,350	0 days	100%	<b>—</b>		1	
5410	Overflow incident from BR1 to BR2 works area (Feb 2021)	340	0 days	NA	NA	8 days	Tue 16/2/21	Wed 24/2/21	Tue 16/2/21	Wed 24/2/21 353	354,351	0 days	100%	. j i •	1	1	į į
3000	Construction of Isolation Wall & stoplog in common channel of BR2 & BR3	277	0 days	NA	NA	43 days	Sat 16/1/21	Wed 10/3/21	Sat 16/1/21	Wed 10/3/21 343,348	352	0 days	100%		1	1	
-5500	Demolition of existing pipe bridge, partition wall and base slab (Stage 1)		30 days	Wed 3/2/21	Fri 12/3/21	26 days	Tue 2/2/21	Sat 6/3/21	Tue 2/2/21	Sat 6/3/21 350,346,352,344	355SS,356	0 days	100%		d t	1	į
																1	
5520 5900	Removal of additional concrete infill within the partition walls	(174)	0 days	NA NA	NA NA	26 days	Tue 2/2/21	Sat 6/3/21	Tue 2/2/21	Sat 6/3/21 354SS	356 357,359	0 days	100%	i =	H (	1	į
5900 5905	Construction of precautionary measures (i.e. isolation wall)  Construction of precautionary measures (i.e. bund wall)	322 305	0 days? 0 days?	NA NA	NA NA	2 days 3 days	Tue 9/3/21 Thu 15/4/21	Wed 10/3/21 Sat 17/4/21	Tue 9/3/21 Thu 15/4/21	Wed 10/3/21 354,355 Sat 17/4/21 356	357,359	0 days 0 days	100%		1. 1	1	
5910	Removal of abandoned DN250 air pipe	209	0 days?	NA NA	NA	6 days	Tue 20/4/21	Mon 26/4/21	Tue 20/4/21	Mon 26/4/21		0 days	100%	i	i i	i	i i
6000	Predrilling (33nrs, 3rigs, 2days/drillhole/rig)_stage 1		44 days	Wed 21/4/21	Sat 12/6/21	44 days	Mon 1/3/21	Wed 5/5/21	Mon 1/3/21	NA 356	360	0 days 1	20%		<b>6</b> 223		
-7000 -4000	Pre-bored H piles (131nos, 2rigs, 2days/pile/rig)_stage 1		131 days	Tue 15/6/21	Thu 18/11/21	131 days	Thu 6/5/21	Mon 11/10/21	NA	NA 359	361 362	-246 days 5	0%	į į	2777777	i	i i
4000	Diversion of rising main, drainage pipes, and foam collection & surplus activated sludge pipes		0 days	NA	NA	91 days	Tue 12/10/21	Sat 29/1/22	NA	NA 360	362	-246 days	0%		2222	222	
5210	Diversion of existing lighting cable and Earthing ducts_stage 2	264	0 days?	NA	NA	25 days	Sat 29/1/22	Thu 3/3/22	NA	NA 361	363	-560 days	0%	i i	i	11	i i
5600	Demolition of surrounded walls and channel of BR2 (Stage 2)	336	30 days	Fri 12/3/21	Tue 20/4/21	30 days	Fri 4/3/22	Fri 8/4/22	NA	NA 362	364	-246 days	0%			SS	
6000a 7000b	Predrilling (3nrs, 1rigs, 2days/drillhole/rig)_stage 2 Pre-bored H piles (26nos, 2rigs, 2days/pile/rig)_stage 2		0 days? 0 days?	NA NA	NA NA	6 days 26 days	Sat 9/4/22 Wed 20/4/22	Tue 19/4/22 Sat 21/5/22	NA NA	NA 363 NA 364	365 367,366	-246 days -246 days	0%	i	i	B 551	i i
9000	Pile Load Test		26 days	Wed 8/9/21	Tue 19/1/21	26 days	Mon 23/5/22	Wed 22/6/22		NA 365	367,366	-246 days	0%			1 12	
3000	Sheetpile Installation (3000sq.m, 1rigs, 50sqm/rig/day)		60 days	Wed 8/9/21	Fri 19/11/21	60 days	Thu 23/6/22	Thu 1/9/22	NA	NA 129,365,366	368,379SS+45 days	-246 days	0%	1	I	SSSS	T T
-10000	ELS works (18100cu.m soil with 4 layers wailing / strutting)		125 days	Mon 20/12/21	Fri 27/5/22	140 days	Fri 2/9/22	Wed 22/2/23	NA	NA 367,131	369,371,372	-246 days 3	0%			2000	2000
11000 KD1E	R.C. Structure works  Additional diversion of DN600 tank drain pipes between BR2A & 2B	353	180 days 0 days	Sat 28/5/22 NA	Sat 31/12/22 NA	205 days 30 days	Thu 23/2/23 Thu 23/2/23	Wed 1/11/23 Wed 29/3/23		NA 134,176,177,368,180,178 NA 369SS	378,46FF,377,373SS+30 (	937 days 5	0%	i	i	i	
R-5700 R-11010	Additional plugging works and end wall construction	264	0 days	NA NA	NA NA	90 days	Thu 23/2/23	Wed 29/3/23 Wed 14/6/23	NA NA	NA 36955	46FF	-131 days	0%			1	
R-11010	Additional removal of existing DN1200 effluent pipe	91	0 days?	NA	NA	30 days	Thu 23/2/23	Wed 29/3/23	NA	NA 368	46FF	-71 days	0%	i	i	i	<u> </u>
R-11020	Additional backfill works after end wall construction at BR2 common channel	(155)	0 days	NA	NA	90 days	Thu 30/3/23	Fri 21/7/23	NA	NA 369SS+30 days	46FF	-161 days	0%				XXXXXX
R-13000 KD1E	Flowmeter no. 2-4		180 days	2023/1/3	2023/8/12	60 days	Fri 24/3/23	Thu 8/6/23	NA	NA 369SS+25 days	375	-246 days	0%	i i	i	i	5555
R-14000 KD1E	Gate Valve Chamber no.1-3		180 days	2023/1/3	2023/8/12	60 days	Fri 9/6/23	Sat 19/8/23	NA NA	NA 374	376	-246 days	0%				8222
R-15000 KD1E	Plug Valve Chamber no.1-2		180 days	2023/1/3	2023/8/12	60 days	Mon 21/8/23	Wed 1/11/23	NA	NA 375	46FF	-246 days	0%	1	1	1	XXXX
R-12000 KD1E R-16000 SW1	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Sat 31/12/22	Sat 31/12/22	0 days	Wed 1/11/23	Wed 1/11/23	NA	NA 369	46FF	-246 days	0%				<b>♦ 1/11</b>
R-17000 SW1	ABWF works + BS works  Process Pipe CHQ chainage 65-170, CHP chainage 60-130, CHO chainage		180 days 0 days	Tue 3/1/23 NA	Sat 12/8/23 NA	180 days 100 days	Thu 2/11/23 Tue 16/8/22	Fri 21/6/24 Tue 13/12/22	NA NA	NA 369,179,137 NA 367SS+45 days	56FF 57FF	-98 days -120 days	0%	1	1	2000	9
	65-140, CHL chainage 0-35 & CHK chianage 0-50		,-			133 23,0						1-2-2-7-					
F-0000 *	Membrane Facilities Building, B-5		941 days	Mon 6/1/20	Thu 9/3/23	1179 days	Mon 18/11/19	Thu 9/11/23		NA 2		75 days	37%		•	1	1 1
F-1000	Operation of existing Final Sedimentation Tanks no.3 & 4	26	0 days 14 days	NA Mon 6/1/20	NA Tue 21/1/20	98 days	Mon 18/11/19	Tue 17/3/20	Mon 18/11/19	Tue 17/3/20 2		0 days	100% 100%				
1100	Demolition of existing final sedimentation tanks no. 3 & 4  Confirmation of Decommission Schedule	68 30	0 days	NA	NA	340 days 58 days	Mon 6/1/20 Mon 6/1/20	Sun 28/2/21 Mon 16/3/20	Mon 6/1/20 Mon 6/1/20	Sun 28/2/21 156,118,10 Mon 16/3/20	384	0 days	100%		1	1	1
1200		68 26	0 days	NA	NA	27 days	Wed 4/3/20	Fri 3/4/20	Wed 4/3/20	Fri 3/4/20 383	385	0 days	100%				
1205	Assistant to decommissioning of Final Sedimentation Tank No. 3 and 4		0 days	NA	NA	14 days	Wed 4/3/20	Fri 3/4/20		Fri 3/4/20 384	386	0 days	100%	1	I.	1	I I
1300	Additional dismantling works to retain specified electrical and mechanical equipment	75 (013)	0 days	NA	NA	21 days	Tue 7/4/20	Wed 6/5/20	Tue 7/4/20	Wed 6/5/20 385	387	0 days	100%			1	
1400	Additional pluging works for DN 1200 Conc. S&S pipe at wash water	76, 77, 144 (015)	0 days	NA	NA	70 days	Mon 8/6/20	Sat 29/8/20	Mon 8/6/20	Sat 29/8/20 386	388	0 days	100%		1	1	į į
	pumping station chamber															1	
1500		76, 77 032	0 days	NA	NA	21 days	Mon 15/6/20	Fri 10/7/20		Fri 10/7/20 387	389	0 days	100%	i	1	1	
710	Isolation wall for RAS Channel No.1  Removal of DN1400 Bioreactor No. 2 Effluent Pipe	76, 77 035 043	0 days 0 days	NA NA	NA NA	40 days 8 days	Mon 1/6/20 Fri 19/2/21	Sat 18/7/20 Sun 28/2/21	Mon 1/6/20 Fri 19/2/21	Sat 18/7/20 388 Sun 28/2/21	393	0 days 0 days	100%			1	
1800	Exposed and disconnet uncharted existing cable between FST3 and FST		0 days	NA NA	NA NA	20 days	Thu 2/7/20	Fri 24/7/20		Fri 24/7/20		0 days	100%	- i - i -	1	1	!
	4											· .				1	
1110	Demolition of structure no. 3 & 4	68, 75, 76, 77, 144	14 days	Mon 6/1/20	Tue 21/1/20	122 days	Wed 1/4/20	Sat 29/8/20	Wed 1/4/20	Sat 29/8/20	394	0 days	100%		1	1	!
1900	Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1	212 060	0 days	NA	NA	23 days	Mon 31/8/20	Fri 25/9/20	Mon 31/8/20	Fri 25/9/20 389	395	0 days	100%			1	
2000	Predrilling (83nrs, 4rigs, 2.5days/drillhole/rig)	144, 212 (112)	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 14/9/20 123,392	395	0 days 1	100%	-	1	1	1
-3000	Pre-bored H piles (171nos, 2rigs, 1.5days/pile/rig) [Extended working hours 0700-1900 & shortern pile length]	212, 308, (112) 309	140 days	Tue 28/7/20	Wed 13/1/21	96 days	Mon 28/9/20	Sat 23/1/21	Mon 28/9/20	Sat 23/1/21 394,128,393	396,397	0 days 5	100%		1	i I	
-3100	Change of Layout of Basement of MFB no. 2	(102)	0 days	NA	NA	17 days	Tue 3/11/20	Sat 21/11/20	Tue 3/11/20	Sat 21/11/20 395		0 days	100%	_ ! ! !	1	1	1
-4000	Pile Load Test	V/	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 25/1/21 395	401,398	0 days	100%		1	i I	
5000	Installation of sheetpile [with pre-boring]	(112)	40 days	Wed 22/1/20	Wed 11/3/20	120 days	Mon 28/12/20	Thu 24/6/21	Mon 28/12/20	NA 397	401	-163 days	38%	N	Ø22249	1	1
6000 6100	ELS works  Pharse A (A1 to N6) - Excavation to -11mPD and blinding	AE	169 days 169 days	Wed 17/2/21 Wed 17/2/21	Thu 9/9/21 Thu 9/9/21	234 days 234 days	Fri 25/6/21 Fri 25/6/21	Wed 6/4/22 Wed 6/4/22	NA NA	NA 10	403SS	-163 days 5 -163 days	0%				
6110	Soil Excavation [Extended working hours 0700-1900 & reduction of	40	169 days	Wed 17/2/21 Wed 17/2/21	Thu 9/9/21	234 days 88 days	Fri 25/6/21	Wed 6/4/22 Fri 8/10/21	NA NA	NA 398,131,397	403SS 402	-163 days	0%		22222		1
	excavation volume]															i	i i
6120	Additional Rock Excavation [2200 cu.m, 7.5cu.m/group x 2]	(112)	0 days	NA	NA TIL O ID ID I	146 days	Sat 9/10/21	Wed 6/4/22		NA 401	405	-163 days	0%		2222	11111111	1
6200	Pharse B (A6 to N10) - Excavation to -1.9mPD and blinding  RC Structure works		169 days 232 days	Wed 17/2/21 Fri 10/9/21	Thu 9/9/21 Sat 25/6/22	100 days 262 days	Fri 25/6/21 Thu 7/4/22	Sat 23/10/21 Fri 24/2/23	NA NA	NA 400SS NA 10	406,412	1 day -163 days 5	0%		i		<u></u>
-7000	Phase A - from B2 - Level 1 (including ELS demolition works)		112 days	Fri 10/9/21	Tue 25/1/22	112 days	Thu 7/4/22	Tue 23/8/22		NA 135,176,177,180,178,402	406SS+30 days,407,409	-163 days 5	0%		1		1
	Phase B - from B1 - Level 1 (including ELS demolition works)		112 days	Fri 10/9/21	Tue 25/1/22	112 days	Wed 18/5/22	Wed 28/9/22	NA NA	NA 405SS+30 days,403	408,409	-163 days	0%		1	E22222	
-7100 KD1F	Phase A - from Level 1 to Roof		120 days	Wed 26/1/22	Sat 25/6/22	120 days	Wed 24/8/22	Tue 17/1/23		NA 405	410,411	-133 days	0%	1	1	22222	and the second s
7100 KD1F 7110 KD1F 7120 KD1G			120 days	Wed 26/1/22	Sat 25/6/22	120 days	Thu 29/9/22	Fri 24/2/23		NA 406	410,411	-163 days	0%				
7100 KD1F 7110 KD1F 7120 KD1G 7130 KD1G	Phase B - from Level 1 to Roof		0 days	Tue 25/1/22	Tue 25/1/22	0 days	Wed 28/9/22	Wed 28/9/22	NA	NA 405,406	47FF	-161 days	0%	1	1	♦ 28	
7100 KD1F 7110 KD1F 7120 KD1G 7130 KD1G	Phase B - from Level 1 to Roof  Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from B2-level 1)														1 1	1	T I
-7000 KD1F -7100 KD1F -7110 KD1F -7120 KD1G -7120 KD1G -7130 KD1G -8000 KD1F	Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from B2-level 1)  Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Sat 25/6/22	Sat 25/6/22	0 days	Fri 24/2/23	Fri 24/2/23	NA	NA 407,408	48FF	-163 days	0%	1	1	1	◆ 24/2
-7100 KD1F -7110 KD1F -7120 KD1G -7120 KD1G -7130 KD1G -8000 KD1F	Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from B2-level 1).  Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from Level to Roof)												0%	1 I	1	1	<b>♦ 24/2</b>
7100 KD1F 7110 KD1F 7120 KD1G 7130 KD1G 8000 KD1F	Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from B2-level 1)  Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days 210 days 0 days	Sat 25/6/22 Mon 27/6/22 NA	Sat 25/6/22 Thu 9/3/23 NA	0 days 210 days 176 days	Fri 24/2/23 Sat 25/2/23 Mon 25/10/21	Fri 24/2/23 Thu 9/11/23 Tue 31/5/22	NA NA NA	NA 407,408 NA 179,407,408 NA 403	48FF 56FF 57FF	-163 days 75 days 43 days	0%				◆ 24/2

Data Date: 31/03/2021

k wa mai Emaent ronsining	Plant - Main Works Stage 1								Revised	Works Programme (Status Date: 31/03/2021)				
Activity ID Key T		Inclement PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	ctual Start	Actual Finish Predecessors	Successors	Total Slack Risk Allowance	% Complete	
Date		CE no. (NCE no.)											uarter July	1st Quarter 1st Qu
3 CSA-0000 * 4 CSA-1000	SAS Pumping Station, B-6		455 days	Wed 20/5/20 NA	Thu 25/11/21	665 days?	Sat 18/4/20 Tue 9/6/20	Fri 15/7/22 Mon 19/7/21	Sat 18/4/20 Tue 9/6/20	NA 11		1148 days?	66% 88%	
5 CSA-1010	Additional Preliminary Works  Temporary sludge thickener plinth	53	0 days 0 days?	NA NA	NA NA	330 days? 7 days?	Tue 4/8/20	Tue 11/8/20	Tue 4/8/20	Tue 11/8/20		1441 days? 0 days?	100%	
6 CSA-1020	Expose and abandon existing electric cable & trial pits	78	0 days?	NA	NA	39 days?	Mon 17/8/20	Wed 30/9/20	Mon 17/8/20			0 days?	100%	
7 CSA-1030 8 CSA-1100	Installation of standpipes  Diversion of Existing SAS Rising Main near SAS Pumping Station	71 68. 75. 76 69	0 days?	NA NA	NA NA	13 days?	Mon 14/9/20 Tue 9/6/20	Mon 28/9/20 Thu 31/12/20	Mon 14/9/20 Tue 9/6/20	Mon 28/9/20	435	0 days?	100%	
9 CSA-1100	Decommission of existing power and signal systems in leachate Pump		0 days 0 days	NA NA	NA NA	170 days 58 days	Mon 21/9/20	Mon 30/11/20	Mon 21/9/20		435	0 days 0 days	100%	
	station switch room	310												
0 CSA-1300	Construction of Cable trough for CLP 11kv Cable Diversion	75, 76, 77, 61 144, 212,	0 days	NA	NA	78 days	Mon 19/10/20	Mon 31/5/21	Mon 19/10/20	NA	435	1481 days	50%	
		309, 310												
1 CSA-1400	Demolition of Existing Pillar box and its concrete plinth	144, 212, 3(30	0 days	NA	NA	53 days	Wed 12/8/20	Sat 14/11/20	Wed 12/8/20		435	0 days	100%	
2	Excavation to locate existing underground cble near SAS Pump Station	78	0 days	NA	NA	59 days	Wed 17/6/20	Sat 21/11/20	Wed 17/6/20	Sat 21/11/20	435	0 days	100%	
3 CSA-1600	Diversion of Existing DN80 Permeate Rising Main near SAS Pumping	89	0 days	NA	NA	72 days	Tue 6/10/20	Thu 31/12/20	Tue 6/10/20	Thu 31/12/20	435	0 days	100%	
1 001 1000	station	000 010 07				50.1		0 . 404000		0.1404030	105		1004	<u></u>
4 CSA-1800 5 CSA-1700	Trench Excavation near SAS for CLP diversion of 11kV cable  Relocation of Oil Interceptor Near Existing Compressor House	309, 310 97 144, 212, 3(70	0 days 0 days	NA NA	NA NA	53 days 125 days	Mon 12/10/20 Mon 3/8/20	Sat 12/12/20 Thu 31/12/20	Mon 12/10/20 Mon 3/8/20	Sat 12/12/20 Thu 31/12/20	435 435	0 days 0 days	100%	
6 CSA-1900	Diversion of pumping system sewerage	212, 309, 3183	0 days	NA	NA	36 days	Wed 13/1/21	Fri 26/2/21	Wed 13/1/21	Fri 26/2/21 147	437,435,427	0 days	100%	
7 CSA-1910	Diversion of Existing copper pipe near proposed SAS pumping station	309, 310 225	0 days	NA	NA	61 days	Mon 19/10/20	Thu 31/12/20	Mon 19/10/20			0 days	100%	
8 CSA-1920 9 CSA-1930	Pipework of proposed SAS Pumping Station - 13 nos. of puddles Additional DN150 Rising main for SAS	221 220/69	0 days	NA NA	NA	180 days 15 days	Mon 7/12/20 Wed 2/12/20	Mon 19/7/21 Fri 18/12/20	Mon 7/12/20 Wed 2/12/20	NA Fri 18/12/20		1441 days 0 days	50% 100%	
0 CSA-1940	Additional DN90 PE pipe diversion	89	0 days?	NA NA	NA	7 days	Fri 11/12/20	Fri 18/12/20	Fri 11/12/20			0 days	100%	i i i i i i i i i i i i i i i i i i i
1 CSA-1950	Diversion of existing LV cable along MTR fencing	258	0 days?	NA	NA	2 days?	Wed 24/3/21	Thu 25/3/21	Wed 24/3/21	Thu 25/3/21		0 days?	100%	
2 CSA-1960 3 CSA-1970	Capping and removal of existing washwater pipe	260	0 days? 0 days?	NA NA	NA NA	38 days? 15 days?	Mon 25/1/21 Thu 21/1/21	Fri 12/3/21 Sat 6/2/21	Mon 25/1/21 Thu 21/1/21	Fri 12/3/21 Sat 6/2/21		0 days? 0 days?	100%	
- 05.61010	Additional diversion of existing sludge rising main and sewerage system	.   01	o dayo:			13 uays?	1110 £1/1/£1	Jal 0/2/21	1110 41/1/41	Om 0.221		o says.	100%	
4 CSA-2000	Predrilling (4nrs, 1rig, 4days/drillhole/rig)	68	16 days	Wed 20/5/20	Sat 6/6/20	7 days	Sat 18/4/20	Sat 25/4/20	Sat 18/4/20	Sat 25/4/20 123	331,435	0 days	100%	
5 CSA-3000 6 CSA-4000	Pre-bored H piles (12nos, 1rigs, 4days/pile/rig) Pile Load Test		60 days 21 days	Mon 8/6/20 Wed 19/8/20	Tue 18/8/20 Thu 17/9/20	19 days 22 days	Mon 18/1/21 Tue 23/2/21	Mon 8/2/21 Fri 19/3/21	Mon 18/1/21 Tue 23/2/21	Mon 8/2/21 128,434,144,420,418,419,421,422,423 Fri 19/3/21 435	3,42 332,436 438,437	0 days 2 0 days	100%	
7 CSA-5000	Sheetpile Installation (FSP-II, 690sq.m, 40sqm/day)		28 days	Wed 19/8/20	Sat 19/9/20	28 days	Tue 30/3/21	Wed 5/5/21	Tue 30/3/21	NA 129,436,426	438	-122 days	0%	
8 CSA-6000	ELS works (1300cu.m soil with 2 layers wailing / strutting)		75 days	Mon 21/9/20	Wed 19/2/20	75 days	Thu 6/5/21	Wed 4/8/21	NA	NA 437,131,436	439	-122 days 2	0%	
9 CSA-7000 KD1H	R.C. Structure works  Allow access to Contractor DE/2018/03 for E&M installation and T&C work		186 days	Mon 21/12/20	Mon 9/8/21	186 days	Thu 5/8/21	Sat 19/3/22	NA NA	NA 438	440,441,49FF 49FF	-122 days 5	0%	A 10/2
0 CSA-8000 KD1H 1 CSA-9000 SW1	Allow access to Contractor DE/2018/03 for E&M installation and T&C work ABWF works + BS works	.a.	0 days 90 days	Mon 9/8/21 Tue 10/8/21	Mon 9/8/21 Thu 25/11/21	0 days 90 days	Sat 19/3/22 Thu 24/3/22	Sat 19/3/22 Fri 15/7/22	NA NA	NA 439 NA 439,179,137,489SS	49FF 56FF	-122 days 468 days	0%	♦ 19/3
2 CAS-0000 *	Ancillary Structures, B-7		503 days	Mon 7/9/20	Sat 21/5/22	598 days	Wed 3/2/21	Sat 11/2/23	NA NA	NA 12		-203 days	0%	
3 CAS-1000	Demolition of Existing Faciliates and Structures (leachate pump pit & pumping station)		120 days	Mon 7/9/20	Sat 30/1/21	120 days	Mon 3/5/21	Thu 23/9/21	NA	NA 118,156,158	483,464	-61 days	0%	
4 CFS-1000 *	Fire Services Sprinkler Pumping Room & Emergency Generator House	e 301	220 days	Sat 10/4/21	Sun 3/1/21	426 days	Fri 3/9/21	Sat 11/2/23	NA	NA		-211 days	0%	
3.5.500	(9)+(10)**	001				-LU days	0/3/21	-3/2/23	NA.				0,0	
5 CFS-1000	Demolition of Existing Leachate Pump Pit	241	0 days	NA	NA	50 days	Fri 3/9/21	Wed 3/11/21	NA	NA 459	446	-211 days	0%	
6 CFS-1100	Provision of Flowmeter chamber, gate valve chamber and associated seweage	85	0 days	NA	NA	50 days	Thu 4/11/21	Tue 4/1/22	NA	NA 445	447	-211 days	0%	
7 CFS-1200	Identify and Decommission the power, signal and instrumentation	86	0 days	NA	NA	50 days	Wed 5/1/22	Mon 7/3/22	NA	NA 446	448	-211 days	0%	
	systems of SSSH pump													
8 CFS-2000	Excavation for Raft Footing (800cu.m)  Sand Replacement (1400 cu.m)		45 days 0 days	Sat 10/4/21 NA	Thu 3/6/21	45 days 7 days	Tue 8/3/22 Thu 5/5/22	Wed 4/5/22 Fri 13/5/22	NA NA	NA 124,447 NA 448	449 450	-211 days	0%	
0 CFS-3000	Plate Load Test (5no.)		14 days	Fri 4/6/21	Mon 21/6/21	14 days	Sat 14/5/22	Mon 30/5/22	NA	NA 449	451	-211 days	0%	
1 CFS-4000 KD1J	R.C. structure works		60 days	Tue 6/7/21	Mon 13/9/21	120 days	Tue 31/5/22	Sat 22/10/22	NA	NA 450	453,452,51FF	-211 days 2	0%	
2 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 22/10/22	Sat 22/10/22	NA	NA 451	51FF	-211 days	0%	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
3 CFS-6000 SW1	ABWF works + BS works		90 days	Tue 14/9/21	Mon 3/1/22	90 days	Mon 24/10/22	Sat 11/2/23	NA	NA 451,489SS	56FF	296 days	0%	
4 CCS-1000 *	Chemical System No.1 (8)*		168 days	Mon 1/2/21	Thu 26/8/21	426 days	Wed 3/2/21	Fri 15/7/22	NA			-203 days	0%	
5 6 CCS-1200	Sand Replacement (1500 cu.m) Plate load test (3no.)		0 days 14 days	NA Tue 16/2/21	NA Wed 3/3/21	8 days 14 days	Wed 3/2/21 Tue 16/2/21	Thu 11/2/21 Wed 3/3/21	NA NA	NA 455	456 457	0 days -211 days	0%	
7 CCS-1310	Construction of Flowmeter chamber, gate valve chamber and associate	d 085	0 days	NA NA	NA NA	60 days	Thu 4/3/21	Mon 17/5/21	NA.		458	-211 days	0%	
000 1010	sewerage	000					T 10/5/01	TI 00/7/04			150	044.1	201	
8 CCS-1310 9 CCS-1110	Demolition of SSSH Pump Pit and Associated Sewerage System Diversion of Leachate Rising Main near SSSH	086 241	0 days	NA NA	NA NA	60 days 30 days	Tue 18/5/21 Fri 30/7/21	Thu 29/7/21 Thu 2/9/21	NA NA	NA 457 NA 458	459 445.460	-211 days	0%	
0 CCS-1100	Excavation for Raft Footing (20cu.m)		10 days	Mon 1/2/21	Thu 11/2/21	10 days	Fri 3/9/21	Tue 14/9/21	NA	NA 459	461	55 days	0%	i i i i i i i i i i i i i i i i i i i
1 CCS-1300 KD1J	R.C. structure works		45 days	Mon 15/3/21	Mon 10/5/21	60 days	Wed 15/9/21	Fri 26/11/21	NA	NA 460	51FF,463,462	55 days 2	0%	
2 CCS-1400 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Mon 10/5/21	Mon 10/5/21	0 days	Fri 26/11/21	Fri 26/11/21	NA	NA 461	51FF	55 days	0%	◆ 26/11
3 CCS-1500 SW1	ABWF works + BS works		90 days	Tue 11/5/21	Thu 26/8/21	90 days	Thu 24/3/22	Fri 15/7/22	NA	NA 179,137,461,489SS	56FF	468 days	0%	
4 CCS-2000 *	Chemical System No.2 (11)		189 days	Thu 4/3/21	Thu 21/10/21	237 days	Fri 24/9/21	Fri 15/7/22	NA	NA 443	100 170	-61 days	0%	
5 CCS-2100 6 CCS-2200	Excavation for Raft Footing (100cu.m)  Plate load test (2no.)		15 days 14 days	Thu 4/3/21 Mon 22/3/21	Sat 20/3/21 Fri 9/4/21	14 days 15 days	Fri 24/9/21 Tue 12/10/21	Mon 11/10/21 Fri 29/10/21	NA NA	NA 124 NA 465	466,472 467	-61 days 34 days	0%	i i i i i i i i i i i i i i i i i i i
7 CCS-2300 KD1J	R.C. structure works		45 days	Tue 11/5/21	Mon 5/7/21	45 days	Sat 30/10/21	Tue 21/12/21	NA	NA 466	468,51FF,469,470	34 days 2	0%	
8 CCS-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	Tue 21/12/21	Tue 21/12/21	NA	NA 467	51FF	34 days	0%	<b>♦</b> 21/12
9 CCS-2500 SW1	ABWF works + BS works		90 days	Tue 6/7/21	Thu 21/10/21	90 days	Thu 24/3/22	Fri 15/7/22	NA	NA 179,137,467,489SS	56FF	468 days	0%	
0 CCS-2600 SW1	Demolition of existing chemical room		60 days	Tue 6/7/21	Mon 13/9/21	60 days	Wed 22/12/21	Tue 8/3/22	NA	NA 467	56FF	571 days	0%	
1 CDS-0000 *	Deodorization System No.3A (7)*		149 days	Tue 16/11/21	Sat 21/5/22	72 days	Tue 12/10/21	Fri 7/1/22	NA NA	NA NA 104 405	470	-61 days	0%	ori originali di propriata di Caralanda di Caralanda di Caralanda di Caralanda di Caralanda di Caralanda di Ca
2 CDS-2000 3	Excavation for Raft Footing (400cu.m)  Sand Replacement (1600 cu.m)		20 days 0 days?	Tue 16/11/21 NA	Wed 8/12/21 NA	20 days 8 days	Tue 12/10/21 Fri 5/11/21	Thu 4/11/21 Sat 13/11/21	NA NA	NA 124,465 NA 472	473 474	-61 days	0%	
4 CDS-3000	Plate load test (3no.)		14 days	Thu 9/12/21	Fri 24/12/21	14 days	Mon 15/11/21	Tue 30/11/21	NA NA	NA 473	475,478	-61 days	0%	
5 CDS-4000 KD1J	Footing works		20 days	Tue 4/1/22	Wed 26/1/22	30 days	Wed 1/12/21	Fri 7/1/22	NA	NA 474	476,51FF	22 days	0%	
6 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	Fri 7/1/22	Fri 7/1/22	NA	NA 475	51FF	22 days	0%	<b>→</b> 7/1
7 CTC-0000 *	Temporary Chemical Dosing System (5)		191 days	Tue 22/6/21	Thu 10/2/22	181 days	Wed 1/12/21	Fri 15/7/22	NA	NA		-61 days	0%	
8 CTC-1000	Plate load test		14 days	Wed 28/7/21	Thu 12/8/21	14 days	Wed 1/12/21	Thu 16/12/21	NA	NA 124,474	479,484	-61 days	0%	
9 CTC-2000 0 CTC-3000 KD1J	Excavation for Raft Footing (300cu.m)  R.C. structure works		30 days 30 days	Tue 22/6/21 Tue 14/9/21	Tue 27/7/21 Thu 21/10/21	30 days 45 days	Fri 17/12/21 Tue 25/1/22	Mon 24/1/22 Mon 21/3/22	NA NA	NA 478 NA 479	480 481,51FF,482	-37 days -37 days 1	0%	<u>\$</u> 3
1 CTC-4000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C		0 days	Thu 21/10/21	Thu 21/10/21	0 days	Mon 21/3/22	Mon 21/3/22	NA NA	NA 480	51FF	-37 days	0%	
	works													i i i i i i i i i i i
2 CTC-5000 SW1 3 CFB-0000 *	ABWF works + BS works  Fire Hydrant and Booster Pump Room (13)*		90 days 177 days	Fri 22/10/21 Fri 13/8/21	Thu 10/2/22 Thu 17/3/22	90 days 167 days	Thu 24/3/22 Fri 17/12/21	Fri 15/7/22 Fri 15/7/22	NA NA	NA 179,137,480,489SS NA 443	56FF	468 days	0%	
4 CFB-1000	Excavation for Raft Footing (200cu.m)		30 days	Fri 13/8/21	Thu 16/9/21	30 days	Fri 17/12/21	Mon 24/1/22	NA NA	NA 478	491,485	-61 days	0%	
5	Sand Replacement (500 cu.m)		0 days?	NA	NA .	3 days	Tue 25/1/22	Thu 27/1/22	NA	NA 484	486	-39 days	0%	
6 CFB-2000 7 CFB-3000 KD1J	Plate load test (3no.)  R.C. structure works		14 days 30 days	Fri 17/9/21 Fri 22/10/21	Tue 5/10/21 Thu 25/11/21	14 days 30 days	Fri 28/1/22 Thu 17/2/22	Wed 16/2/22 Wed 23/3/22	NA NA	NA 485 NA 486	487 488,489,51FF	-39 days -39 days 1	0%	
8 CFB-4000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C		0 days	Thu 25/11/21	Thu 25/11/21	0 days	Wed 23/3/22	Wed 23/3/22 Wed 23/3/22	NA NA	NA 487	51FF	-39 days	0%	◆ 23/3
0.050.500	works									NA 407 470 407	FAFE 40000 (		221	
9 CFB-5000 SW1 0 CDS1-0000	ABWF works + BS works  Deodorization System No.1 (6)*		90 days 64 days	Fri 26/11/21 NA	Thu 17/3/22 NA	90 days 69 days	Thu 24/3/22 Tue 25/1/22	Fri 15/7/22 Fri 22/4/22	NA NA	NA 487,179,137 NA	56FF,482SS,453SS,469S	6S,4 468 days	0%	
1 CDS1-1000	Excavation for Raft Footing (400cu.m)		20 days	NA NA	NA NA	20 days	Tue 25/1/22	Sat 19/2/22	NA NA	NA 484	492	-61 days	0%	
2	Sand Replacement (1000 cu.m)		0 days?	NA	NA	5 days	Mon 21/2/22	Fri 25/2/22	NA	NA 491	493	-61 days	0%	
3 CDS1-2000	Plate load test (3no.)		14 days	NA NA	NA NA	14 days	Sat 26/2/22	Mon 14/3/22	NA NA	NA 492	494	-61 days	0%	
4 CDS1-3000 KD1J 5 CDS1-4000 KD1J	Footing works  Allow access to Contractor DE/2018/04 for E&M installation and T&C		30 days 0 days	NA NA	NA NA	30 days 0 days	Tue 15/3/22 Fri 22/4/22	Fri 22/4/22 Fri 22/4/22	NA NA	NA 493 NA 494	495,51FF 51FF	-61 days	0%	1
	works													
	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)		662 days	Wed 29/1/20	Fri 22/4/22	918 days	Mon 1/6/20	Thu 6/7/23	Mon 1/6/20	NA		860 days	29%	
6 CAA-0000 *														
6 CAA-0000 * 7 CAA-1000 KD2B	B-8A Alternation works for existing Air Blower House No.2 (Pipeline		180 days	Wed 29/1/20	Thu 3/9/20	448 days	Mon 1/6/20	Mon 29/11/21	Mon 1/6/20	NA 15,138,174	53FF	1330 days	49%	•
	B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)		180 days	Wed 29/1/20	Thu 3/9/20	448 days	Mon 1/6/20	Mon 29/11/21	Mon 1/6/20	NA 15,138,174	53FF	1330 days	49%	

Contract I			Plant - Main Works Stage 1								Revised	Works Programme (Status Date: 31/03/2021)											
		Key Date	ask Name	Inclement Weather CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish Predecessors	Successors	Total Slack Risk Allowance	% Complete	arter 1st Quarter		1st Quarter	1st Quarter January July		1st Quarter	1st Quar	
498 CA	AA-1100		Change of pipe bridge design	(057)	0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/20	501,502,503	0 days	100%	July January J	July Ja	nuary July	January July	/ January	y July	January	July January
499 CA	AA-1200		Additional inspection pit to veriify the connection point to existing (CE xxx)		0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/20	501,502,503	0 days	100%	!	-	1	1	1		1	
500 C/	AA-1300		Additional MBV installation (CE xxx)		0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/20	501,502,503	0 days	100%	-							
501 C/	AA-1400				180 days	Wed 29/1/20	Thu 3/9/20	185 days	Tue 20/4/21	Mon 29/11/21	NA	NA 498,499,500	53FF	1330 days	0%	į	į			i		i	i
502 C/	AA-1500	KD2B	Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)	064	0 days	NA	NA	185 days	Tue 20/4/21	Mon 29/11/21	NA	NA 498,499,500	53FF	1330 days	0%	1	1	-	1	I I		I I	1
503 C/	AA-1600	KD2B	Re-alignmnet of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases	062	0 days	NA	NA	60 days	Tue 20/4/21	Fri 2/7/21	NA	NA 498,499,500	53FF,504	1275 days	0%			-	1	1		1	
504 C/	AA-2000	KD1I	Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2		122 days	Fri 4/9/20	Sat 30/1/21	120 days	Sat 3/7/21	Tue 23/11/21	NA	NA 13FS-1 day,118,156,158,166,503	50FF,505	1275 days	0%								
505 CA	AA-2100		Additional works for Power House	224	0 days	NA	NA	60 days	Wed 24/11/21	Tue 8/2/22	NA	NA 504	50FF	1275 days	0%	i	i	1		i		i i	i
506 C/	AA-3000	SW3	Alternation works for existing Membrane Facilities Building No.1		360 days	Mon 1/2/21	Fri 22/4/22	360 days	Tue 19/4/22	Thu 6/7/23	NA	NA 14FS-1 day,165	58FF	269 days	0%	T.	1	1	1	1		1	1
507 CI	JU-0000	*	External Underground Service, Utilities, Road/Drain		1091 days	Mon 24/2/20	Sat 28/10/23	1041 days	Mon 27/4/20	Sat 28/10/23	Mon 27/4/20	NA 16		64 days	35%			•		_		1	
508 CI	JU-1000	KD2A	Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)		325 days	Mon 24/2/20	Sat 27/3/21	272 days	Mon 27/4/20	Wed 4/8/21	Mon 27/4/20	NA 174,138	518SS+48 days,516SS+48	3 d-39.8 days	70%	SS 8	шши	• 1111111				ì	
509 CI	JU-1000a	a	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	r (029)	0 days	NA	NA	54 days	Sat 30/5/20	Mon 3/8/20	Sat 30/5/20	Mon 3/8/20		0 days	100%		 	 	 	İ		 	 
510 Cl	JU-1000b	b	Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.) (PPMI 040)	255	0 days	NA	NA	60 days	Thu 25/2/21	Mon 10/5/21	Thu 25/2/21	NA	52FF	31 days	50%				1	I I		1	
511 Cl	JU-1001		Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area	033	0 days	NA	NA	43 days	Thu 2/7/20	Thu 20/8/20	Thu 2/7/20	Thu 20/8/20		0 days	100%	_			Į Į			1	
512 CI	JU-1002		Grouting for Sheung Shui Slaughter House Boundary Walls along CHR & CHS Pipes Works Area (PPMI 064)		0 days	NA	NA	20 days	Fri 23/10/20	Mon 16/11/20	Fri 23/10/20	Mon 16/11/20		0 days	100%			l I	l I	I I		I I	1
513 CI	JU-1004		Delay Delivery of DI pipes due to COVID-19	(076)	0 days	NA	NA	75 days	Tue 22/12/20	Thu 25/3/21	Tue 22/12/20	Thu 25/3/21	514FF	0 days	100%	i i	•		1	II.		1	1
514 CI	JU-2000	SW2	Process Pipes, including CHT, CHX, CHY, CHPS1&2, CHS S1&2, CHDO 1&2, CHPSW 1-8, CHTPS, CHPT1&2. CHTFT 1&2, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe		550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	NA 174,508SS+48 days,138,513FF	57FF,519	63 days	30%	 		•					
515 CI	JU-3000	SW2	Drainage		550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	NA 174,508SS+48 days,138	57FF,519	63 days 5	30%	i		•		i		i i	i
516 CI	JU-4000	SW2	Sewerage		550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	NA 508SS+48 days,174,138	57FF,519	63 days 5	30%	1		•		1		1	1
517 CI	JU-5000	SW2	Waterworks		550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	NA 508SS+48 days,174,138	521FS+2 days,57FF	63 days 5	36%			<b>•</b>	-	I .		I.	1
518 CI	JU-6000	SW2	Cable Ducts		550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	NA 508SS+48 days,174,138	519,57FF	63 days 5	30%	1		•		1		1	I I
519 CI			Roadworks		540 days	Fri 31/12/21	Sat 28/10/23	440 days	Sat 7/5/22	Sat 28/10/23	NA	NA 518,515,516,514	54FF	64 days 5	0%	i	i	i i				i	i
520 CI			Landscaping Works		854 days	Wed 11/5/22	Thu 27/3/25	778 days	Wed 11/5/22	Sun 29/12/24	NA	NA 16		122 days	0%	1	1	1		-			
521 CL	_W-1000	SW3	Irrigation System		120 days	Wed 11/5/22	Fri 30/9/22	120 days	Wed 11/5/22	Fri 30/9/22	NA	NA 517FS+2 days,174	522,58FF	122 days	0%	1	1	1		1		1	1
522 CI	-W-2000	SW3	Hard Landscaping Works		220 days	Mon 3/10/22	Mon 3/7/23	185 days	Mon 3/10/22	Fri 19/5/23	NA	NA 521,139	523,58FF	122 days 5	0%		1	1 :	1		A	1	1
523 CI			Soft Landscaping Works		220 days	Tue 4/7/23	Tue 26/3/24	185 days	Sat 20/5/23	Sat 30/12/23	NA	NA 522,139	524,58FF	122 days 5	0%		1	1 1	1	İ		4	1
524 CI	_W-4000	DLP	Establishment Works (365 days)		294 days	Wed 27/3/24	Thu 27/3/25	365 days	Sun 31/12/23	Sun 29/12/24	NA	NA 523,139	59FF,60FF	495 days 5	0%	i	i	1 i	1	i			





ctivity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	) JIAISI	OINID	J F M	2020 A M J J		OINID J	I F M A	202 M J		DINID	J F M	202   M J	2 JIAISIOI	NDJ	FMA	2023 M J J	3 HAISIO	ND JFN	2024 // A M  J  J
CE000150	CE No.018 - MVAC Layout for Plant Service Water System	Daration		05-Nov-20 A		04-Apr-24	riout					7 -	6 - 4 -3	31 1	2 3	4 5 6 7	89	1 1	1 1	1 1 1 1	2 2 2	2 2 2	2 2 2	2 3 3	3 3 3 3 3 3	3 3 3 4
02000130	OL NO.018 - WIVAO Layout for Frank Service Water System			03-N0V-20 A		04-Api-24				!						1				1						
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		1					•													
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		1					•													
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		1			i ! ! !		•												 	
CE000191	NCE-PMI-0207 - TX Rm & Switch Rm - Provision of ATS for Power Supply for UPS	0		01-Dec-20 A		04-Apr-24		1					•		1											
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		1					•													
CE000195	NCE-PPMI-0211 - Revised MVAC Layout & Electrical Provisions for MVAC in TX and Switch Rm	0		02-Dec-20 A		04-Apr-24		1					•													
CE000196	NCE-PMI-0212 - Provision of Louvre Panel for Outdoor AC Units at Contractor's Site Accomodation	0		07-Dec-20 A		04-Apr-24		1			1		•													
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		1					•				1									
CE000220	NCE-PPMI-0216 - Electrical Provisions for MVAC & drainage Sytems in Plant Service Water System	0		31-Dec-20 A		04-Apr-24		1			 		•		1		1									
CE000230	NCE-PMI-0217 - Revised Duty Points for Effluent Transfer Pumps	0		29-Dec-20 A		04-Apr-24		1			1		•												 	
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-Apr-21	31-Mar-22	0			:	!					:										
CE000254	NCE-NCE-0219 - Revised Access Date for Portion B-2a	1	31-Mar-22	31-Mar-22*	31-Mar-22	31-Mar-22	0											į								
CE000256	NCE-NCE-0219 - Portion B-2b (within 615 to 705 days from starting date)	705	23-Oct-19 A	26-Sep-21	21-Apr-21	26-Sep-21	0				1		:													
CE000258	NCE-NCE-0219 - Revised Access Date for Portion B-2b	1	26-Sep-21	26-Sep-21*	26-Sep-21	26-Sep-21	0									·										
CE000260	NCE-PMI-0220 - Supply of Puddle Pipes for Effluent to Shek Sheung River	0		30-Dec-20 A		04-Apr-24		1					•		1											
CE000270	NCE-PPMI-0221 - General Arrangement for Fire Hydrant & Booster Pump Room	0		24-Dec-20 A		04-Apr-24		1					•													
CE000280	NCE-PMI-0222 - Revised Water Supply Arrangement (FS Water) to Sludge Dewatering Building	0		12-Jan-21 A		04-Apr-24		1					•													
CE000290	NCE-PMI-0223 - Construction of Trial Pits for Sidestream Treatment Facilities	0		15-Jan-21 A		04-Apr-24		1					•	•												
CE000300	NCE-PMI-0224 - Independent Inspection Body (IIB) for the Factory Acceptance Test (FAT) for UV Disinfeciton System	0		25-Jan-21 A		04-Apr-24							•	•												
CE000310	NCE-PMI-0225 - Supply of Ductile Iron Puddle Pipes at the Basement of Sludge Dewatering Building	0		09-Mar-21 A		04-Apr-24		1			1 1 1 1 1			•	1		 		1	! ! !		!	 		 	
CE000320	NCE-PMI-0226 - Provision of Solar Water Heating System at the Contractor's Site Accomodation	0		08-Mar-21 A		04-Apr-24		1						•												
CE000330	NCE-PMI-0227 - Dual Power Fedder for LV Switch Panel at Sewage Pumping Station	0		11-Mar-21 A		04-Apr-24		1						•												
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	File Name: DE/2018/03 RP R9						<u> </u>	a <b>t</b>	. L N -	DE /2	040/	22								Date	$\top$	Revisio	n	Checl	ked A	Approved
	Tile Name. BE/2010/03 NT N3 — — — 5				_					. DE/2	-			_			30-Dec-2			ec-20	Rev	v.5	Ľ	.T	KM	• • • • • • • • • • • • • • • • • • • •
	Layout: DE1803 RP (Apr 2021) -				Shek V	Vu Hui E	fluer	t Po	Iishin	g Plar	nt - M	ain V	Vorks	Stage	<b>1</b>					an-21	Rev		L	.T	KM	
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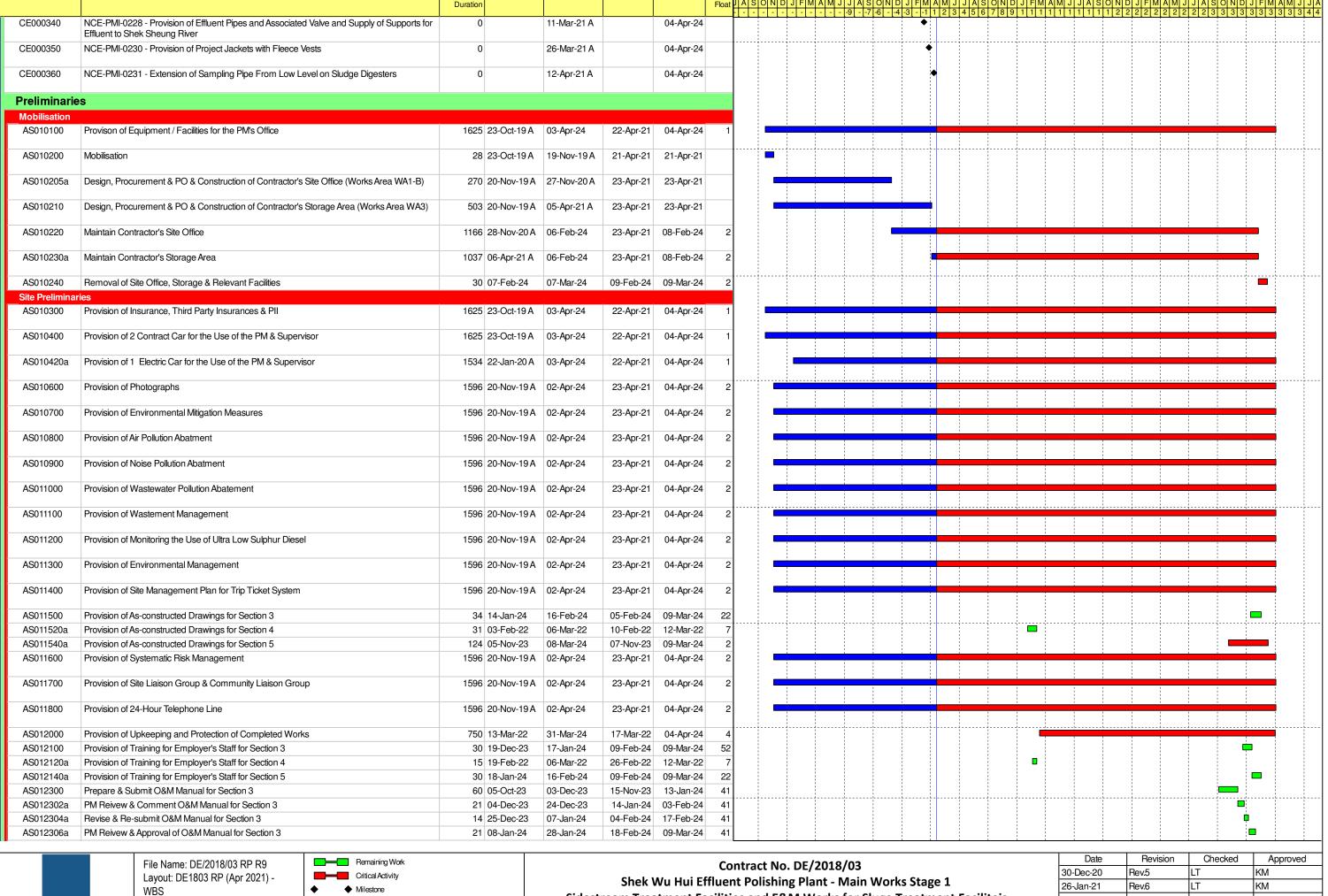
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Milestone Actual Progress

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

Date	Revision	Checked	Approved					
30-Dec-20	Rev.5	LT	KM					
26-Jan-21	Rev.6	LT	KM					
26-Feb-21	Rev.7	LT	KM					
29-Mar-21	Rev.8	LT	KM					
30-Apr-21	Rev.9	LT	KM					



Early Finish

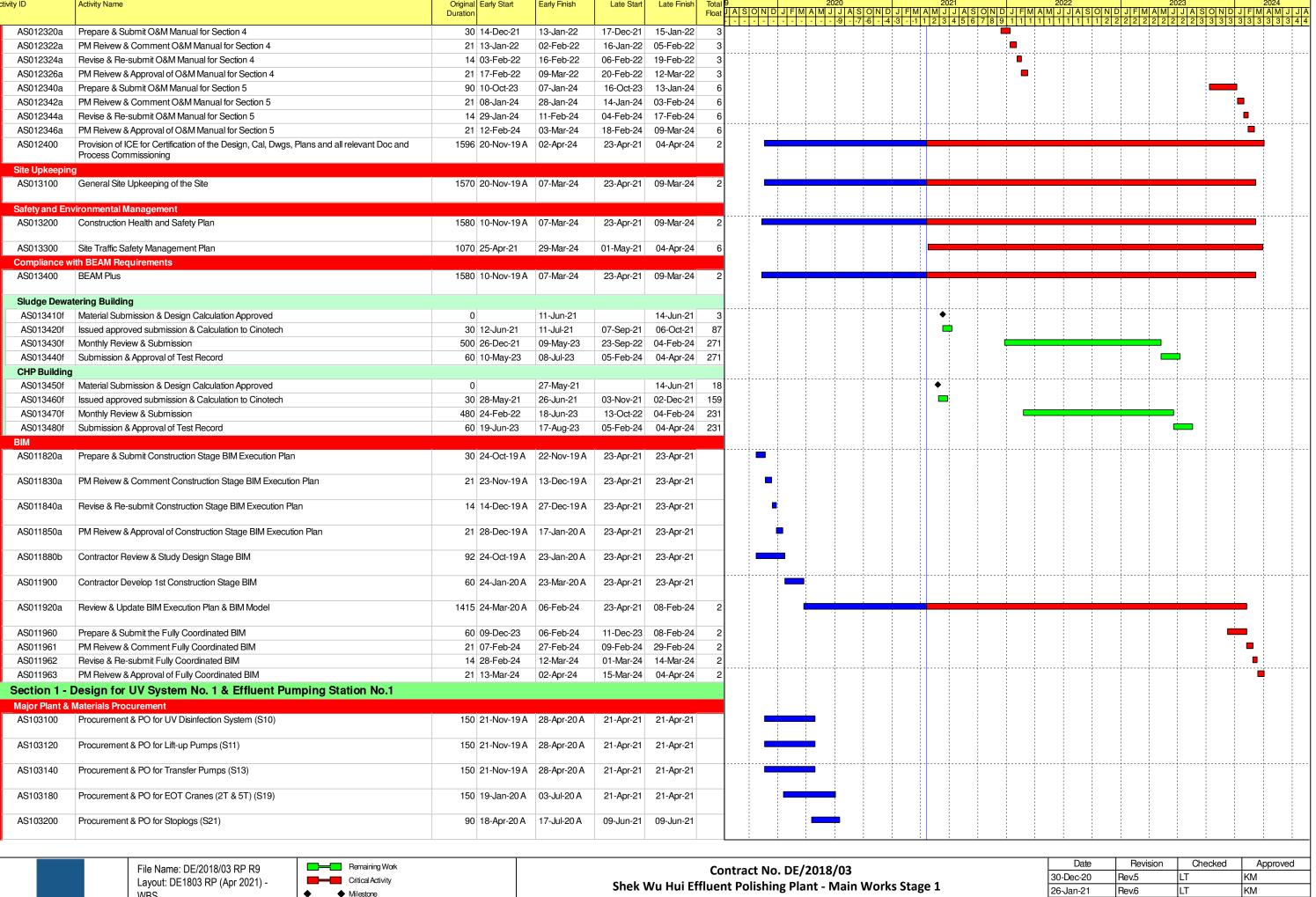


Activity Name

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Actual Progress

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM





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Milestone Actual Progress

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM

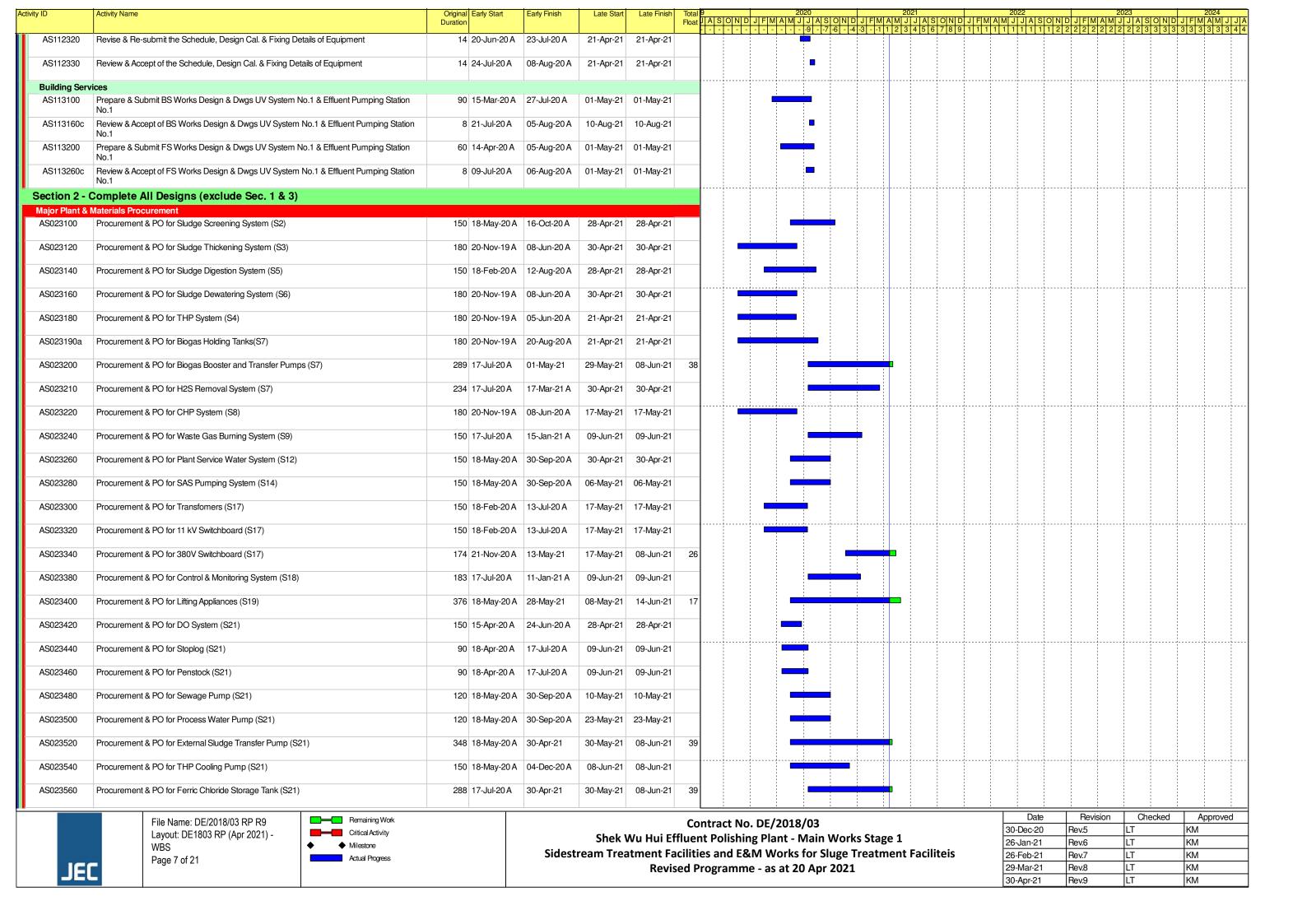
vity ID	Activity Name	Original E	Early Start	Early Finish	Late Start	Late Finish	Total 9 Float J	ASOND	J F M	A M J	20 J A S O N	D J F M	2021   A M J J	A S O N	D J F M	2022    A M J J J	A S O N	D J F M F	2023 A[M] J] J] A	SOND	2024 J   F   M   A   N	1 J .
AS103220	Procurement & PO for Penstocks (S21)	90 1	18-Apr-20 A	17-Jul-20 A	09-Jun-21	09-Jun-21	-		<u>- - - </u>		<u>-9  - -7 -6  - </u> 	-4 -3  - -1	1 2 3 4	5 6 7 8	9 1 1 1 1		1 1 1 2	2 2 2 2 2	2 2 2 2 2	3 3 3 3	3 3 3 3 3	3 4
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AS101100	Prepare & Submit General Arrangement Drawings	90 2	27-Jan-20 A	19-Feb-20 A	21-Apr-21	21-Apr-21																
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AS101110	Review & Comment on General Arrangement Drawings by PM	21 2	20-Feb-20 A	04-Mar-20 A	04-Apr-24	04-Apr-24			•					 			!					
AS101120	Revise & Re-submit General Arrangement Drawings	14 1	16-May-20 A	05-Aug-20 A	04-Apr-24	04-Apr-24					_											
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AS101130	Review & Accept of General Arrangement Drawings by PM	5 0	06-Aug-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24					1											
Civil & Dimer	nsional / Tolerance Requirement Drawings															1						
AS102100	Prepare & Submit Civil Requirement Drawings	60 0	07-Mar-20 A	08-Apr-20 A	24-May-21	24-May-21			-	ı												
AS102110	Review & Comment on Civil Requirement Drawings by PM	21 0	19-Δnr-20 Δ	20-Apr-20 A	04-Δpr-24	04-Apr-24																į
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AS102120	Revise & Re-submit Civil Requirement Drawings	14 2	21-Apr-20 A	29-Apr-20 A	04-Apr-24	04-Apr-24																
AS102130	Review & Comment of Civil Requirement Drawings by PM	21 3	30-Apr-20 A	25-May-20 A	04-Apr-24	04-Apr-24																
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AS512140	Revise & Re-submit Civil Requirement Drawings	28 2	26-May-20 A	05-Aug-20 A	04-Apr-24	04-Apr-24																
AS512150	Review & Accept of Civil Requirement Drawings by PM	5 0	06-Aug-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24					1											
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AS102150	hematic Drawings Prepare & Submit Elec. Schematic Drawings	60 2	05 Eab 20 A	03-Apr-20 A	21-Apr-21	21-Apr-21					1			 								
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AS102160	Review & Comment on Elec. Schematic Drawings by PM	21 0	04-Apr-20 A	16-Apr-20 A	25-Apr-21	25-Apr-21				•	1											
AS102170	Revise & Re-submit Elec. Schematic Drawings	14 1	17-Anr-20 Δ	04-May-20 A	25-Apr-21	25-Apr-21																
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AS102180	Review & Accept of Elec. Schematic Drawings by PM	21 0	05-May-20 A	03-Jun-20 A	25-Apr-21	25-Apr-21					1			 								
UV System N	o. 1																					
AS102200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	60 2	24-Mar-20 A	08-May-20 A	24-May-21	24-May-21			Ė	_												
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AS102210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 0	J9-Iviay-20 A	01-Jun-20 A	04-Apr-24	04-Apr-24				_												
AS102220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 0	)2-Jun-20 A	10-Jul-20 A	04-Apr-24	04-Apr-24								!	:		!					
AS102230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 1	11-Jul-20 A	06-Aug-20 A	04-Δpr-24	04-Apr-24								 			!					
710102200	The view at hose plant willing Driggs, dable contiducted a Design Call.		11 001 2071	00 / lug 20 / l	0474pi 24	0474pi 24					_											
AS102300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	60 1	15-Apr-20 A	29-May-20 A	24-May-21	24-May-21																
AS102310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 3	30-Mav-20 A	19-Jun-20 A	24-May-21	24-May-21					1 1 1			1 1 1 1								
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AS102320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 2	20-Jun-20 A	23-Jul-20 A	24-May-21	24-May-21				•				 			1 1 1					
AS102330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 2	24-Jul-20 A	08-Aug-20 A	24-May-21	24-May-21							-									
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AS112200	ping Station No. 1 Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	60 2	24-Mar-20 Δ	08-May-20 A	21-Apr-21	21-Apr-21								 								
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AS112210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 0	09-May-20 A	01-Jun-20 A	04-Apr-24	04-Apr-24				_	1			 								
AS112220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 0	)2-Jun-20 A	10-Jul-20 A	04-Apr-24	04-Apr-24					1			1 1 1 1			 					
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AS112230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 1	11-Jul-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24								1 1 1 1								
AS112300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	60 1	15-Apr-20 A	29-May-20 A	21-Apr-21	21-Apr-21																
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AS112310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 3	30-May-20 A	19-Jun-20 A	21-Apr-21	21-Apr-21								1								
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	File Name: DE/2018/03 RP R9						Cor	tract No.	DF/2	2018	<b>'</b> 03						Date	Revision		Checked	Appro	vec
	Layout: DE1803 RP (Apr 2021) - Critical Activity				Shek \	Wu Hui Ef			-	-		ks Sta	ge 1			30-Dec		Rev.5 Rev.6	LT LT		KM KM	
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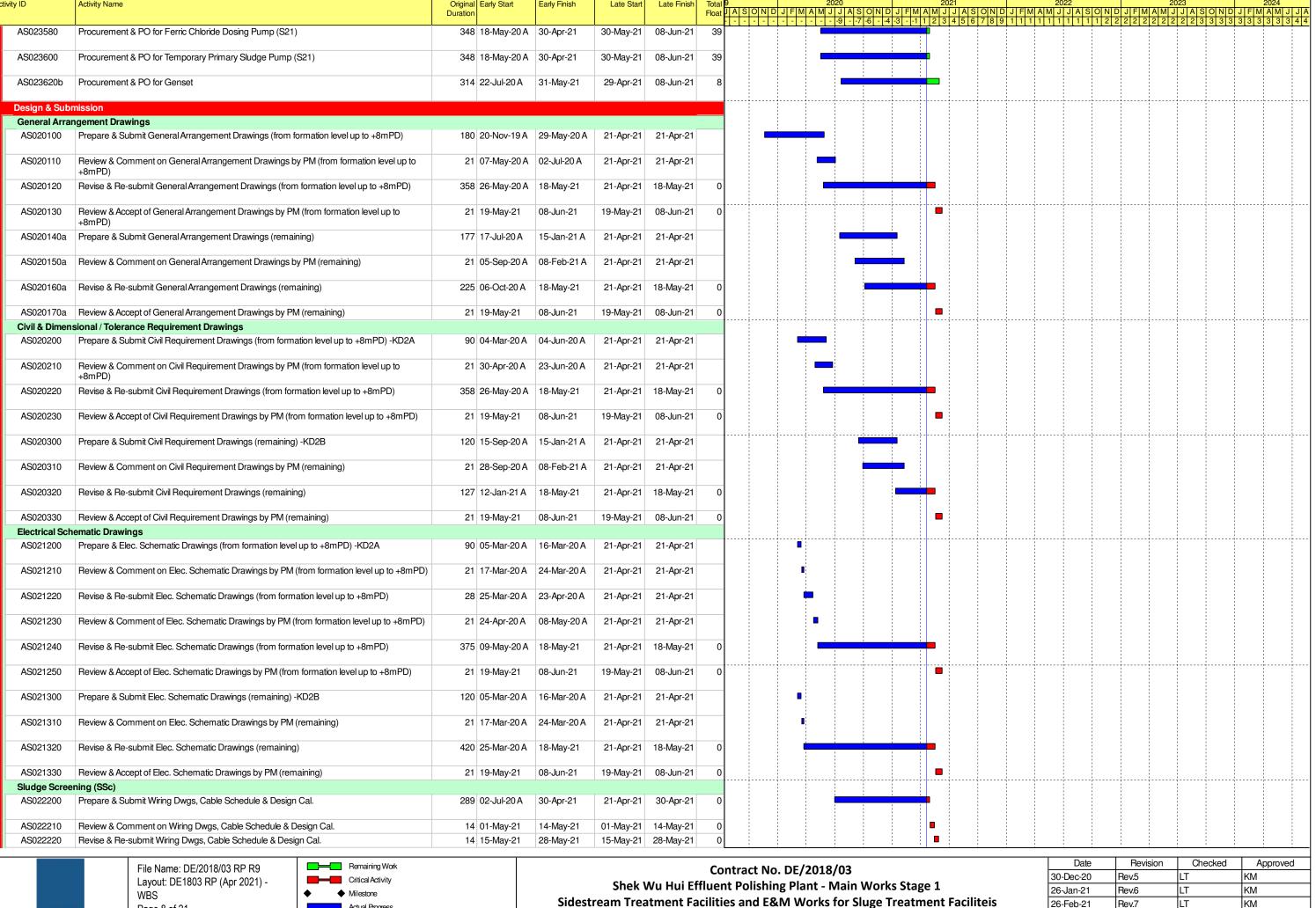


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Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM





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Actual Progress

Revised Programme - as at 20 Apr 2021

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM

tivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total 9 Float JASON	ND JFN	2020 1 A M J J <i>A</i>	ASONDJF	20 M A M J	21 J A S O N D	JFM	2022 A M J J A S	OND JFMAM	2023   J   J   A   S   O   N	20: D J F M A	24 M J J
AS022230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	14 29-May-21	11-Jun-21	29-May-21	11-Jun-21	0 - 1 - 1 - 1 -	-   -   -   -   -	- - - -9	- [-7[-6[ - [-4[-3[ -	[-1   1   2   3   	4[5[6]7[8[9	1 1 1 1	1 1 1 1 1 1 1 1	1 2 2 2 2 2 2 2	[2] 2[ 2[ 3] 3[ 3]	[3] 3[3] 3[3]	3 3 4
AS022300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment			-	30-Apr-21	0											
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AS022310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	14 01-May-21	14-May-21	•	14-May-21	0				-							
AS022320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 15-May-21	28-May-21	-	28-May-21	0				_							
AS022330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 29-May-21	11-Jun-21	29-May-21	11-Jun-21	0				•							
Sludge Thick								<u> </u>				ļļ.					
AS032200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	303 02-Jul-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0											
AS032210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	14 01-May-21	14-May-21	01-May-21	14-May-21	0					 						
AS032220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 15-May-21	28-May-21	15-May-21	28-May-21	0				•							
AS032230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	14 29-May-21	11-Jun-21	29-May-21	11-Jun-21	0				•							
AS032300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	233 10-Sep-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0											
AS032310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	14 01-May-21	14-May-21	01-May-21	14-May-21	0						1					
AS032320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 15-May-21	28-May-21	15-May-21	28-May-21	0				•							
AS032330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 29-May-21	11-Jun-21	29-May-21	11-Jun-21	0				•							
Thermal Hyd	rolysis Process (THP)																
AS042200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	241 18-May-20 A	07-Jan-21 A	21-Apr-21	21-Apr-21												
AS042210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 08-Jan-21 A	27-Jan-21 A	21-Apr-21	21-Apr-21			1									
AS042220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	111 28-Jan-21 A	18-May-21	21-Apr-21	18-May-21	0			_								
AS042230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 19-May-21	08-Jun-21	19-May-21	08-Jun-21												
AS042300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	-	07-Jan-21 A	21-Apr-21					i								
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AS042310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 08-Jan-21 A	27-Jan-21 A	21-Apr-21	21-Apr-21												
AS042320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	111 28-Jan-21 A	18-May-21	21-Apr-21	18-May-21	0			_								
AS042330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 19-May-21	08-Jun-21	19-May-21	08-Jun-21	0				-							
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AS052200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	273 01-Aug-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0											
AS052210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	14 01-May-21	14-May-21	01-May-21	14-May-21	0				•							
AS052220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 15-May-21	28-May-21	15-May-21	28-May-21	0				•		11					
AS052230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	14 29-May-21	11-Jun-21	29-May-21	11-Jun-21	0											
AS052300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	243 31-Aug-20 A	30-Apr-21	21-Apr-21		0											
AS052310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	14 01-May-21	14-May-21	01-May-21	14-May-21												
AS052310	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 15-May-21	28-May-21	-	28-May-21	0											
AS052320 AS052330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 29-May-21	11-Jun-21	-	11-Jun-21	0		<del></del>				÷		· <del> </del>			
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AS062200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	303 02-Jul-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0											
AS062210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	14 01-May-21	14-May-21	01-May-21	14-May-21												
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AS062230 AS062300	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.  Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	14 29-May-21 243 31-Aug-20 A	11-Jun-21 30-Apr-21	29-May-21 21-Apr-21		0				-							
AS062310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	14 01-May-21	14-May-21	01-May-21	14-May-21												
AS062320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 15-May-21	28-May-21	-	28-May-21	0											
AS062330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 29-May-21	11-Jun-21		11-Jun-21					_							
	ge & Pre-Treatment (BSPT)	17 20 May 21	11 Juli 21	Lo Ividy Z1	00.172.1	<u> </u>		1 1 1	<u>-</u>								
AS072200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	243 31-Aug-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0											
AS072210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	14 01-May-21	14-May-21	01-May-21	14-May-21												
AS072210 AS072220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 01-May-21	28-May-21	-	28-May-21												
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	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	· · · · · · · · · · · · · · · · · · ·		29-May-21		0						<del></del>					
AS072300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	177 22-Oct-20 A	30-Apr-21	21-Apr-21	30-Apr-21	U				1							
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Revised Programme - as at 20 Apr 2021

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM

ity ID	Activity Name	Original Ea	arly Start	Early Finish	Late Start	Late Finish	Total		JIEIM	2020	ISIOINII	LIEM	202 AIMLU	21 TAISLOINID	LIEM	2022 AML II II AL	SIOINIDIII	2023 FIMIAIMI II	JAISIOINID	202	24 M II
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AS072310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	14 0	1-May-21	14-May-21	01-May-21	14-May-21	0						•								
AS072320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 15	5-May-21	28-May-21	15-May-21	28-May-21	0						•							į	
AS072330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 29	9-May-21	11-Jun-21	29-May-21	11-Jun-21	0						•							į	
Combined He	at & Power Generation (CHP)								! ! !												
AS082200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	233 18	8-May-20 A	21-Jul-20 A	30-May-21	30-May-21															
AS082210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 22	2-Jul-20 A	11-Aug-20 A	30-May-21	30-May-21				-											
AS082220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 12	2-Aug-20 A	21-Dec-20 A	30-May-21	30-May-21				•	:	1									
AS082230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	136 22	2-Dec-20 A	06-May-21	30-May-21	14-Jun-21	39														
AS082300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180 18	8-May-20 A	21-Jul-20 A	29-Apr-21	29-Apr-21															
AS082310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 22	2-Jul-20 A	11-Aug-20 A	29-Apr-21	29-Apr-21				_											
AS082320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28 12	2-Aug-20 A	21-Dec-20 A	29-Apr-21	29-Apr-21				•		1									
AS082330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	157 22	2-Dec-20 A	27-May-21	29-Apr-21	04-Jun-21	8														
Waste Gas Bi	urning System (WGB)																				
AS092200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	198 15	5-Oct-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0				_		•								
AS092210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	14 0	1-May-21	14-May-21	01-May-21	14-May-21	0						-		<del> </del>						
AS092210 AS092220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.		5-May-21	28-May-21	-	28-May-21	0													1	- 1
AS092230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.		9-May-21	11-Jun-21	29-May-21	-	0		! ! !												
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AS092300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment			·	,	·					-										
AS092310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment		1-May-21	14-May-21	-	14-May-21	0								ļ						
AS092320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 15	5-May-21	28-May-21	15-May-21	28-May-21	0						•								
AS092330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 29	9-May-21	11-Jun-21	29-May-21	11-Jun-21	0						•								
Plant Service	Water System (PSW)																			į	i
AS122200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	258 16	6-Aug-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0						•								
AS122210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	14 0	1-May-21	14-May-21	01-May-21	14-May-21	0						•								
AS122220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.		5-May-21	28-May-21	-	28-May-21	0				· <del> </del>	1	•		ii						
AS122230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.		9-May-21	11-Jun-21	29-May-21	-	0														
AS122300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	198 15	5-Oct-20 A	30-Apr-21	21-Apr-21		0				_	<u> </u>	•								
AS122310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	14 0	1-May-21	14-May-21	01-May-21	14-May-21	0														
AS122320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment		5-May-21	28-May-21	-	28-May-21	0						_								
AS122330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment		9-May-21	11-Jun-21		11-Jun-21															
	ated Sludge Pumping Station (SAS)	14 20	o iviay 21	11 0011 21	20 May 21	11 0011 21							-								
AS142200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	202 0	1-Aug-20 A	17-Nov-20 A	06-May-21	06-May-21				_											
AS142210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 18	8-Nov-20 A	24-Nov-20 A	06-May-21	06-May-21															1
AS142220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	166 25	5-Nov-20 A	09-May-21		24-May-21	15														
AS142230				-			15														
AS142230 AS142300	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.  Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment		0-May-21	30-May-21 17-Nov-20 A	25-May-21	14-Jun-21 10-May-21	15						-							!	
AS142310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment			24-Nov-20 A		10-May-21					_										
AS142320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment			05-May-21	·	24-May-21					_										
AS142330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 06	6-May-21	26-May-21	25-May-21	14-Jun-21	19						_					-			
Control and N AS182200	Nonitoring System Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	183 30	0-Oct-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0				_		•								
AS182210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	14 0	1-May-21	14-May-21	01-May-21	14-May-21	0														
AS182220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.		5-May-21	28-May-21	-	28-May-21	0						•	 							
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Milestone Actual Progress

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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
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM

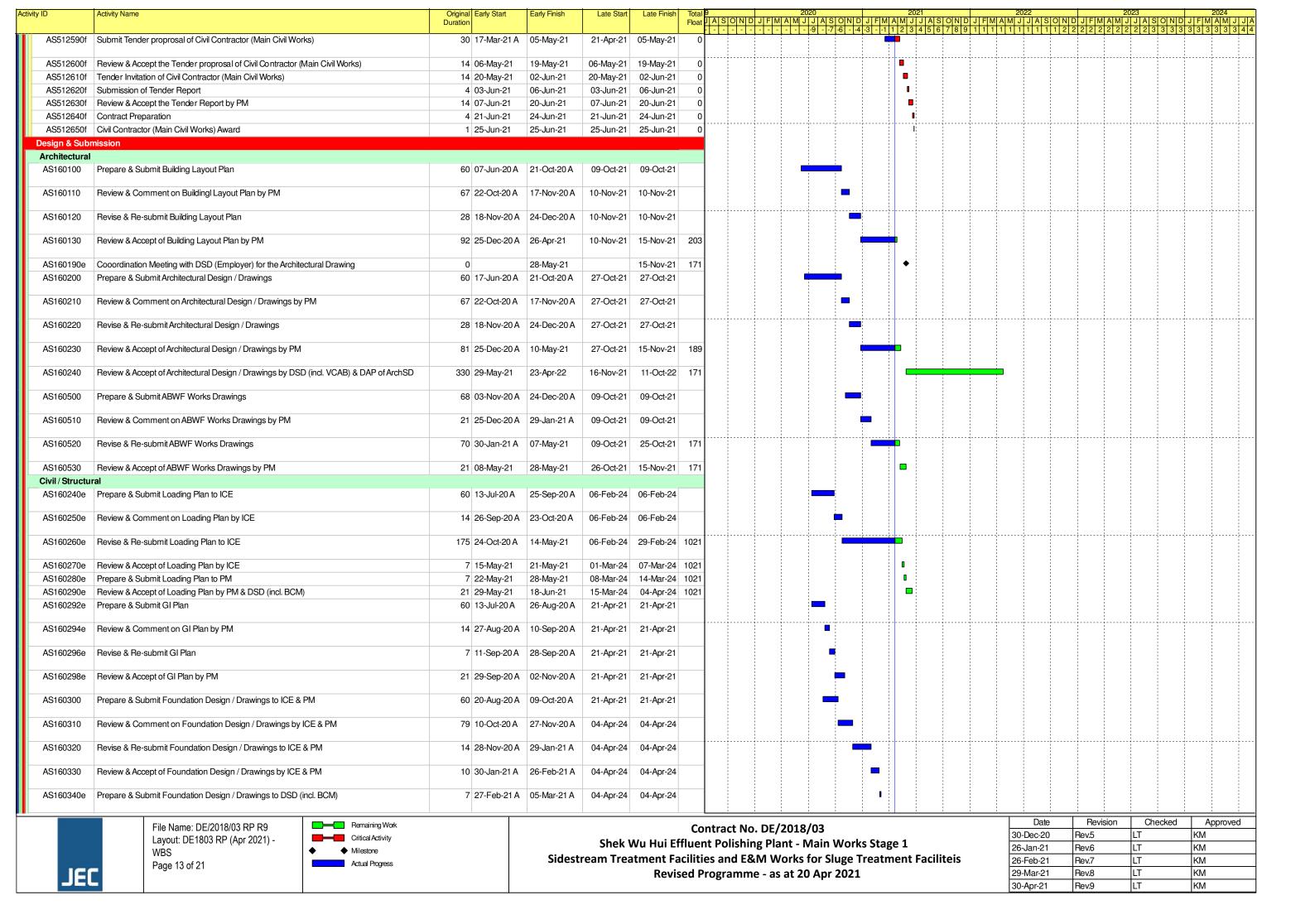
tivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	9 JAS	OND	JFM	2020 A M J J	ASO	N D J F	MA	2021 M J J A	SOND	JFMA	2022 A M J J	ASON	DJFM	202   A M J	23 J A S O	NDJF	2024 F M A M J
AS182230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	14 29-May-21	11-Jun-21	29-May-21	11-Jun-21	0	1-1-		-1-1-1	-[-[-]-9]	-[-/[-0[	- [-4 -3  -	· [-1 [ 1 ] ·	2 3 4 5	0 / 0 8	<u> </u>	<u> </u>	1[1]1[2[	2 2 2 2	2 2 2	2[2[3]3[	<u> </u>	
AS182300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	138 14-Dec-20 A	30-Apr-21	21-Apr-21																			
AS182310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	14 01-May-21	14-May-21	01-May-21	14-May-21	0																	
AS182320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 15-May-21	28-May-21	15-May-21	28-May-21	0								•									
AS182330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 29-May-21	11-Jun-21	29-May-21	11-Jun-21	0								•									
Lifting Applia		· · · · · · · · · · · · · · · · · · ·																					
AS192200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	288 17-Jul-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0				_	:												
AS192210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	14 01-May-21	14-May-21	01-May-21	14-May-21	0																	
AS192220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 15-May-21	28-May-21	15-May-21	28-May-21	0								•								1	
AS192230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	14 29-May-21	11-Jun-21	29-May-21	11-Jun-21	0																	
AS192300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	183 30-Oct-20 A	30-Apr-21	21-Apr-21	30-Apr-21	0			1		•	:					1					i !	
AS192310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	14 01-May-21	14-May-21	01-May-21	14-May-21	0								J									
AS192320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 15-May-21	28-May-21	15-May-21	28-May-21	0																-	
AS192330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14 29-May-21	11-Jun-21	-	11-Jun-21													1					
Building Serv		,																į					
AS201100	Submit & Accept BS Works Design & Dwgs for Sludge Dewatering Building	170 21-Nov-20 A	09-May-21	21-May-21	08-Jun-21	30					1												
AS201200	Submit & Accept BS Works Design & Dwgs for CHP Building	170 14-Nov-20 A	02-May-21	28-May-21	08-Jun-21	37																	
AS201300	Submit & Accept BS Works Design & Dwgs for Sludge Digester & Distribution Chamber	170 21-Nov-20 A	09-May-21	21-May-21	08-Jun-21	30			1		1												
AS201500	Submit & Accept BS Works Design & Dwgs for Workshop No. 2	310 02-Jul-20 A	07-May-21	23-May-21	08-Jun-21	32			1		1	:					1					!	
AS201700	Submit & Accept BS Works Design & Dwgs for Other Facilities	170 29-Nov-20 A	17-May-21	13-May-21	08-Jun-21	22			1		1		- 1	•								! ! !	
AS201800	Submit & Accept BS Works Design & Dwgs for FS Installation	307 02-Jul-20 A	04-May-21	26-May-21	08-Jun-21	35																	
AS201900	Submit & Accept BS Works Design & Dwgs for Outdoor Lighting Installation	110 28-Jan-21 A	17-May-21	13-May-21	08-Jun-21	22						_											
Miscellaneou AS211100	Submit & Accept Design & Dwgs for DO System	170 14-Dec-20 A	01-Jun-21	28-Apr-21	08-Jun-21	7								_									
AS211200	Submit & Accept Design & Dwgs for Sewage Pumping Station	203 30-Oct-20 A	20-May-21	10-May-21	08-Jun-21	19			1			!	- 1										
AS211300	Submit & Accept Design & Dwgs for Process Water Pumping System	215 05-Oct-20 A	07-May-21	23-May-21	08-Jun-21	32					_		-										
AS211400	Submit & Accept Design & Dwgs for External Sludge Transfer Pumping System	169 14-Nov-20 A	01-May-21	29-May-21	08-Jun-21	38																	
AS211500	Submit & Accept Design & Dwgs for THP Cooling Water Pumping Station	169 14-Nov-20 A	01-May-21	29-May-21	08-Jun-21	38																	
AS211600	Submit & Accept Design & Dwgs for Ferric Chloride Dosing System	173 14-Nov-20 A	05-May-21	25-May-21	08-Jun-21	34			1		1												
AS211700	Submit & Accept Design & Dwgs for Temporary Primary Sludge Pumping Facility	141 04-Jan-21 A	24-May-21	06-May-21	08-Jun-21	15			1		1	_		•									
AS211800	Submit & Accept Design & Dwgs for Gas Detection System	180 29-Nov-20 A	27-May-21	03-May-21	08-Jun-21	12			1		1			•									
AS211900	Submit & Accept Design & Dwgs for CCTV System	180 29-Nov-20 A	27-May-21	03-May-21	08-Jun-21	12																	
Section 3 -	Complete Design, Construction & T&C for Sidestream Facilities										1												
	atractor / Supplier Procurement									!				!									
Design												į		i				i				į	
AS160020	Procurement & PO for Deammonification Sidestream Treatment Facilities	200 20-Nov-19 A	05-Jun-20 A	21-Apr-21	21-Apr-21						1												
AS512260e	E&M (Process) Designer Award	1 05-Jun-20 A	05-Jun-20 A	04-Apr-24	04-Apr-24					I													
AS512270e	Civil & BS Designer Award	1 26-Jun-20 A	26-Jun-20 A	04-Apr-24	04-Apr-24				1	l	1												
AS512280e	Mobilisation	14 27-Jun-20 A	12-Jul-20 A	04-Apr-24	04-Apr-24						1												
Civil & Buildi	ng Contractor									1 1 1 1 1	1			 									
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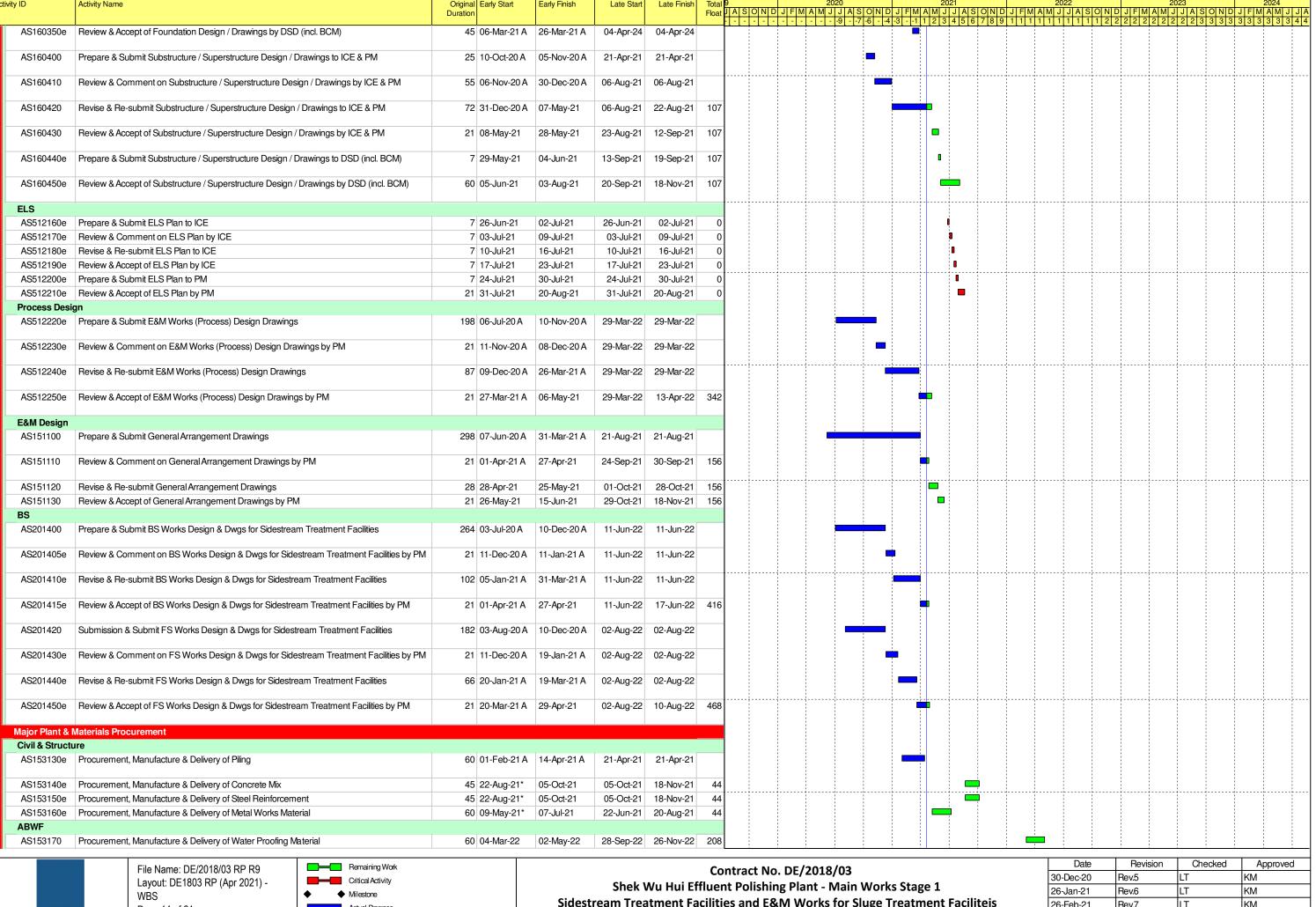
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Actual Progress

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM

Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start		Total 9 Hoat JASON D	JFN	2020 1 A M J J A	SONDJF	M A M	021 J J A S O N [	D J F M	2022   A M  J  J  A  S	ONDJFMAN	2023 /  J	ONDJFM	2024    A M  J  J
For Site Clea	rance & Survey							9	7 -64 -3 -	-1 1 2 3	3 4 5 6 7 8 9	9 1 1 1 1	1 1 1 1 1 1	1 2 2 2 2 2 2 2	2 2 2 2 3	3 3 3 3 3 3	3 3 3 4 4
	Submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14 05-Aug-20	A 20-Aug-20 A	21-Apr-21	21-Apr-21			•			- †						<del></del>
AS512300e	Review & Comment the Tender proprosal of Civil Contractor (Site Clearance & Survey)	14 21-Aug-20	A 01-Sep-20 A	21-Apr-21	21-Apr-21			•									
AS512310e	Re-submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14 02-Sep-20	A 02-Sep-20 A	21-Apr-21	21-Apr-21			ı									
AS512320e	Review & Accept Tender proprosal of Civil Contractor (Site Clearance & Survey)	14 03-Sep-20	A 23-Sep-20 A	21-Apr-21	21-Apr-21												
AS512330e	Civil Contractor (Site Clearance & Survey) Award	1 07-Oct-20 A	A 07-Oct-20 A	21-Apr-21	21-Apr-21				ı								
AS512340e		5 08-Oct-20 A			21-Apr-21								 				
For Ground		0 00 00(20)		<b>p</b>	= · / <del> </del> / <del> </del> · = ·												
	Submit Tender proprosal of Civil Contractor (Ground Investigation)	14 29-Aug-20	A 29-Sep-20 A	21-Apr-21	21-Apr-21			•	-								
AS512360	Review & Accept the Tender proprosal of Civil Contractor (Ground Investigation)	21 30-Sep-20	A 27-Oct-20 A	21-Apr-21	21-Apr-21				_								
AS512370e	Tender Invitation of Civil Contractor (Ground Investigation)	7 02-Nov-20	A 13-Nov-20 A	21-Apr-21	21-Apr-21				•								
AS512380e	Submission of Tender Report	7 14-Nov-20	A 18-Nov-20 A	21-Apr-21	21-Apr-21						- - - -						
	Review & Accept the Tender Report by PM	21 19-Nov-20	A 19-Nov-20 A	21-Apr-21	21-Apr-21	_											
	Contract Preparation		A 23-Nov-20 A		21-Apr-21												
	Civil Contractor (Ground Investigation) Award		A 24-Nov-20 A		21-Apr-21												
AS512420e	Mobilisation	7 25-Nov-20 <i>i</i>	A 08-Dec-20 A	21-Apr-21	21-Apr-21				•								
	g & Post-drilling																
AS512430e	Submit Tender proprosal of Civil Contractor (Pre-drilling & Post-drilling)	74 26-Oct-20 A	A 06-Jan-21 A	21-Apr-21	21-Apr-21												
AS512440e	Review & Accept the Tender proprosal of Civil Contractor (Predrill & Proof drill)	21 07-Jan-21 A	A 27-Jan-21 A	21-Apr-21	21-Apr-21				-								
AS512450e	Tender Invitation of Civil Contractor (Pre-drilling & Post-drilling)	14 28-Jan-21 A	A 04-Feb-21 A	21-Apr-21	21-Apr-21				•								
AS512460e	Submission of Tender Report	4 05-Feb-21	A 10-Feb-21 A	21-Apr-21	21-Apr-21				1								
AS512470e	Review & Accept the Tender Report by PM	21 11-Feb-21 /	A 16-Feb-21 A	21-Apr-21	21-Apr-21				•								
AS512480e	Contract Preparation	3 17-Feb-21	A 17-Feb-21 A	21-Apr-21	21-Apr-21				1								
AS512490e	Civil Contractor (Pre-drilling & Post-drilling) Award	1 18-Feb-21	A 18-Feb-21 A	21-Apr-21	21-Apr-21				1								
AS512500e	Mobilisation	3 19-Feb-21	A 21-Feb-21 A	21-Apr-21	21-Apr-21				1								
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For Piling AS512510f	Submit Tender proprosal of Civil Contractor (Piling)	39 04-Jan-21 A	A 10-Feb-21 A	03-Apr-24	03-Apr-24				-								
AS512520f	Review & Accept the Tender proprosal of Civil Contractor (Piling)	25 11-Feb-21 /	A 12-Mar-21 A	03-Apr-24	03-Apr-24				-								
AS512530f	Tender Invitation of Civil Contractor (Piling)	14 12-Mar-21 /	A 19-Mar-21 A	03-Apr-24	03-Apr-24	$\dashv$											
AS512540f	Submission of Tender Report	7 20-Mar-21 A	A 22-Mar-21 A	03-Apr-24	03-Apr-24					ı							
	Review & Accept the Tender Report by PM		A 23-Mar-21 A		03-Apr-24												
	Contract Preparation		A 25-Mar-21 A		03-Apr-24								! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !				
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	Civil Contractor (Piling) Award		A 26-Mar-21 A		03-Apr-24												
AS512580f		3 26-Mar-21 A	A 22-Apr-21	03-Apr-24	04-Apr-24 10	078											
For Main Civ							-	<u>                                     </u>	<u> </u>			-				-11 1 ·	
	File Name: DE/2018/03 RP R9					Contract No	DE	2018/03					Date				Approved
	Layout: DE1803 RP (Apr 2021) - Critical Activity			Shek \		uent Polishi	-	•	Works St	age 1			30-Dec-20		LT	KM	
	WBS		C:doc+				_			_	Eacilitaic		26-Jan-21		LT	KM	
100	Page 12 of 21 Actual Progress		Sidest	6111 1782		lities and E8			_	unent	raciiiteis		26-Feb-21		LT IT	KM KM	
JEC					Kevise	d Programm	ie - a	at ZU AP	ZUZI				29-Mar-21 30-Apr-21	Rev.9	LT	KM	
The state of the s													[30-Api-21	luev.a	Ir.	ILINI	

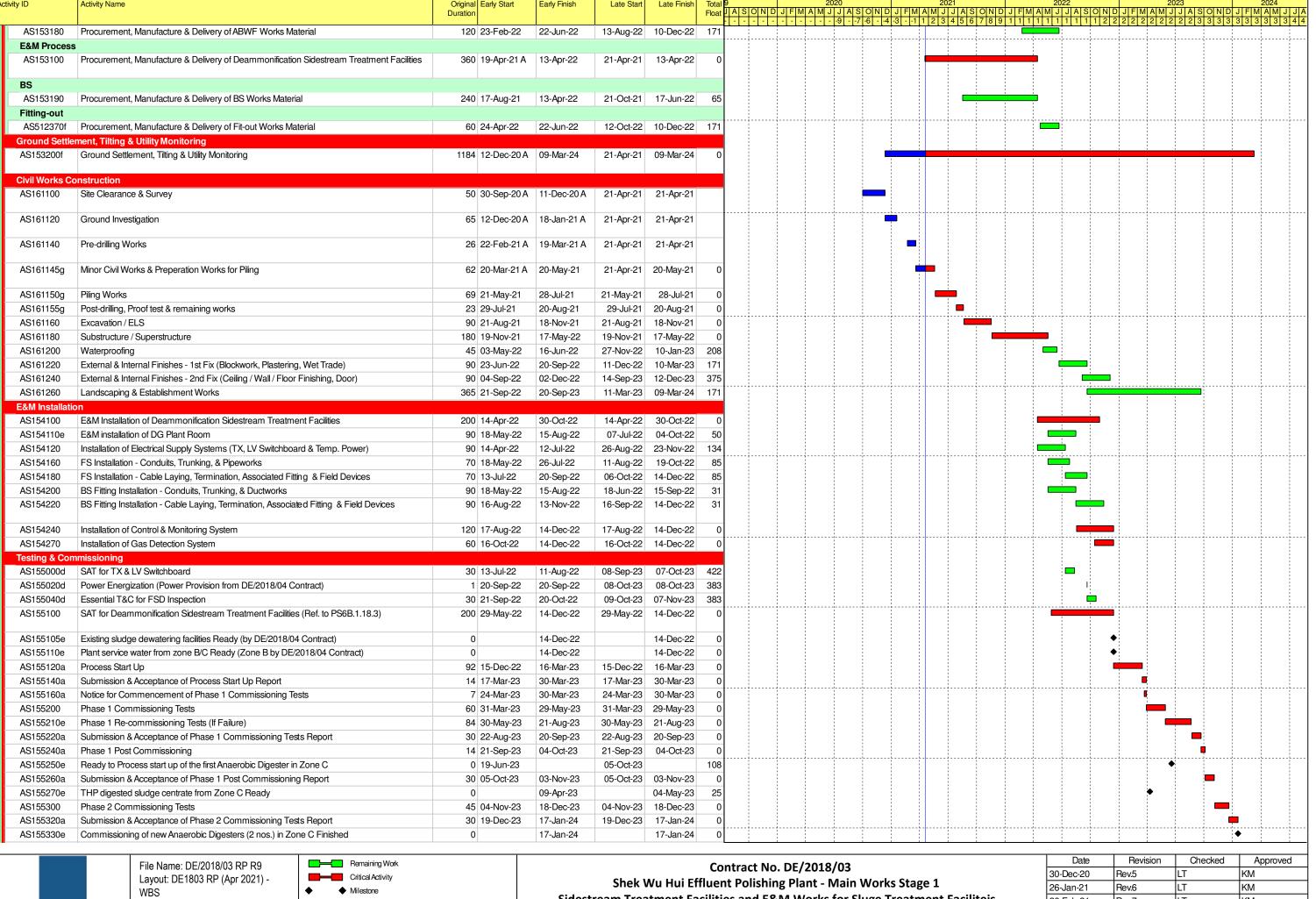




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Actual Progress

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM

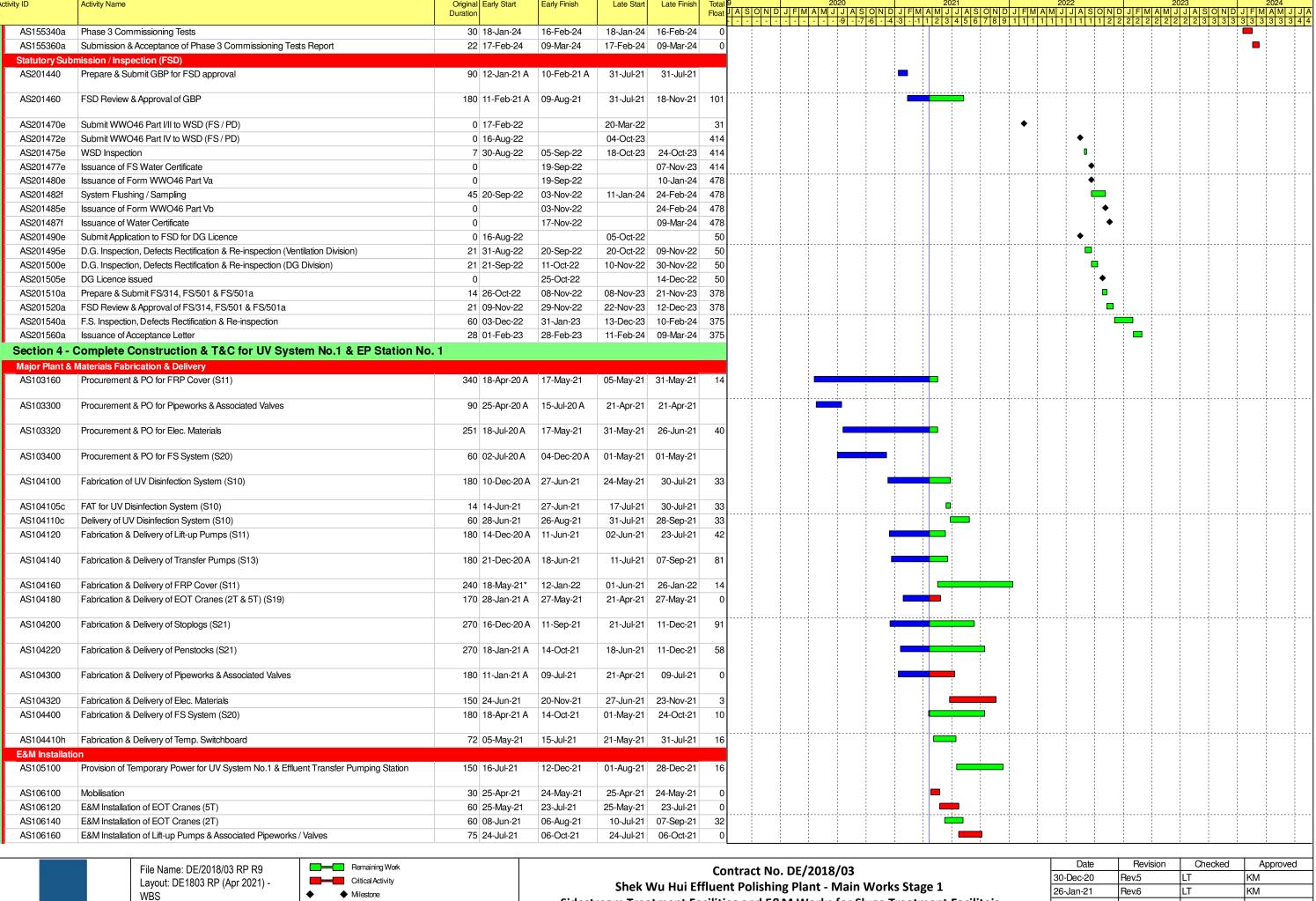




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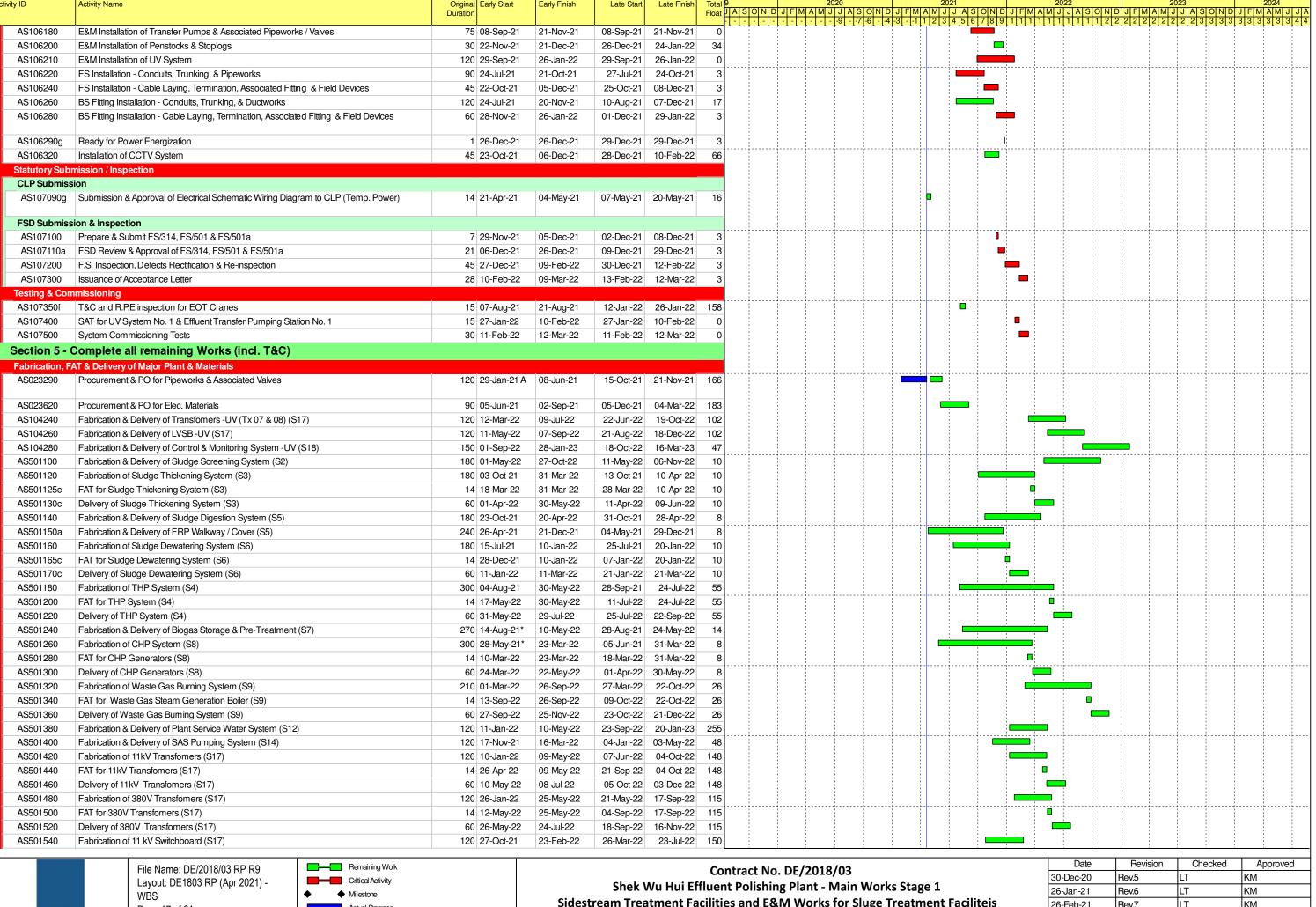
Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM



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Actual Progress

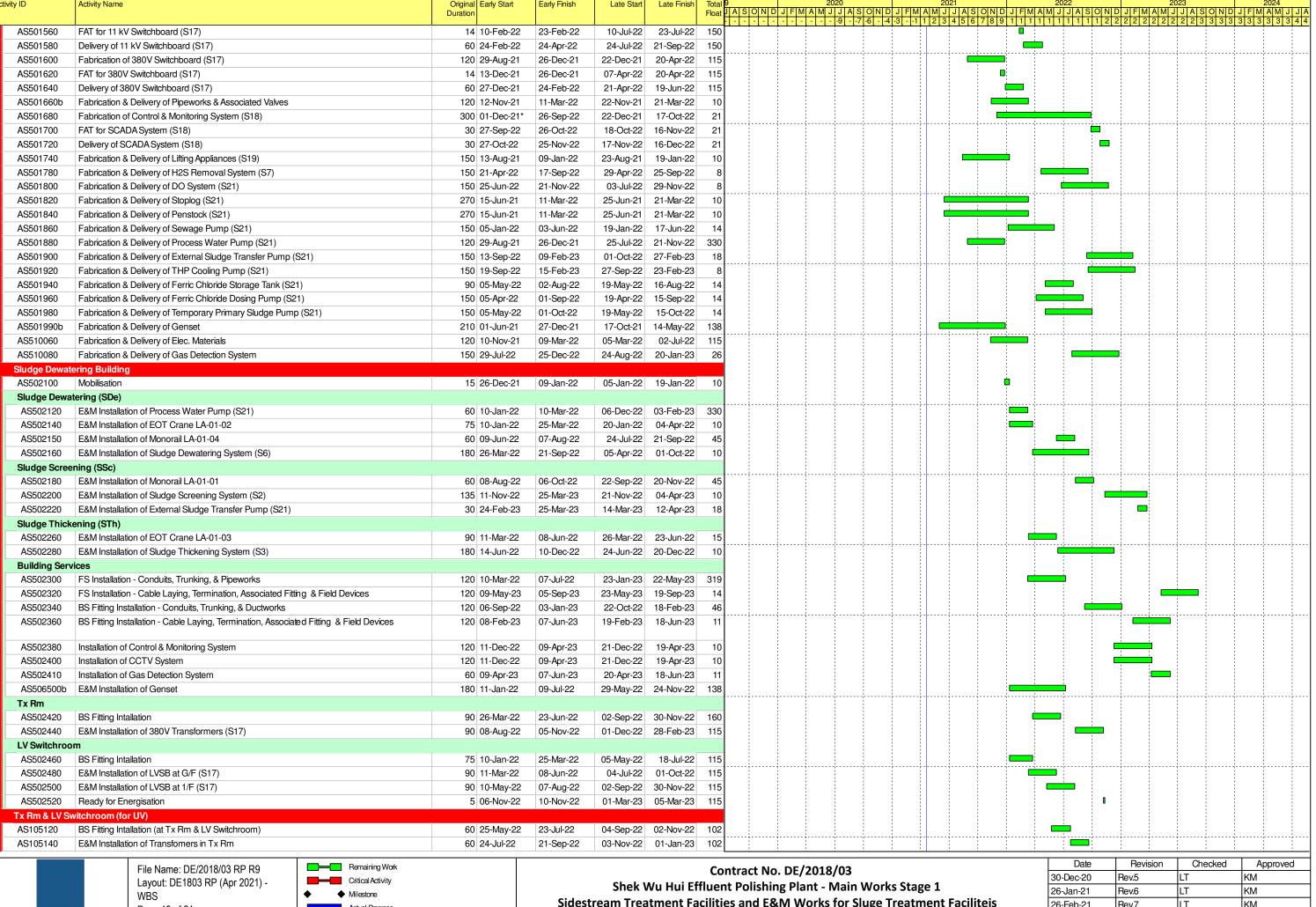
Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM



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Actual Progress

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev9	ΙΤ	КМ

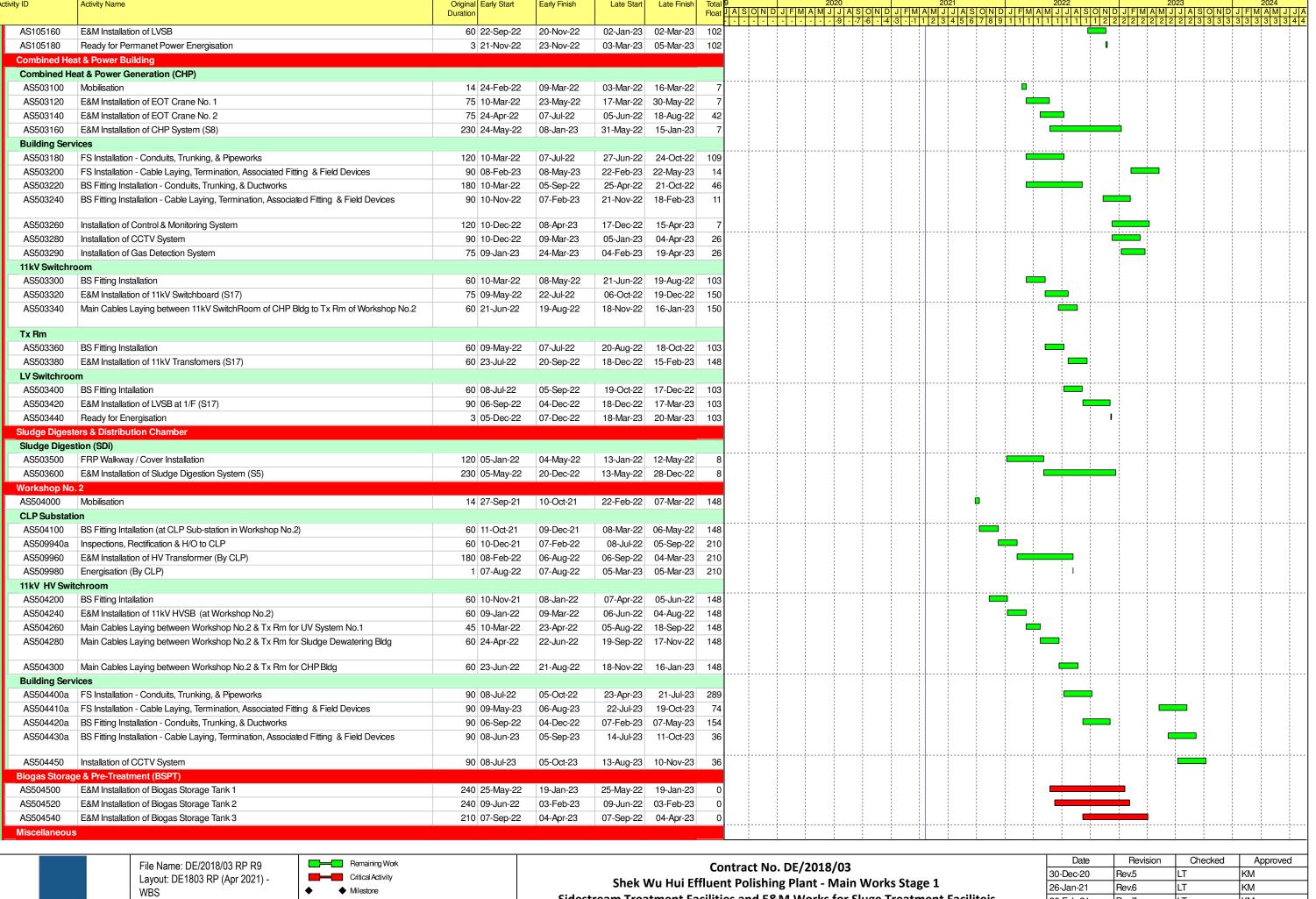


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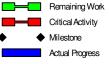
Actual Progress

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM

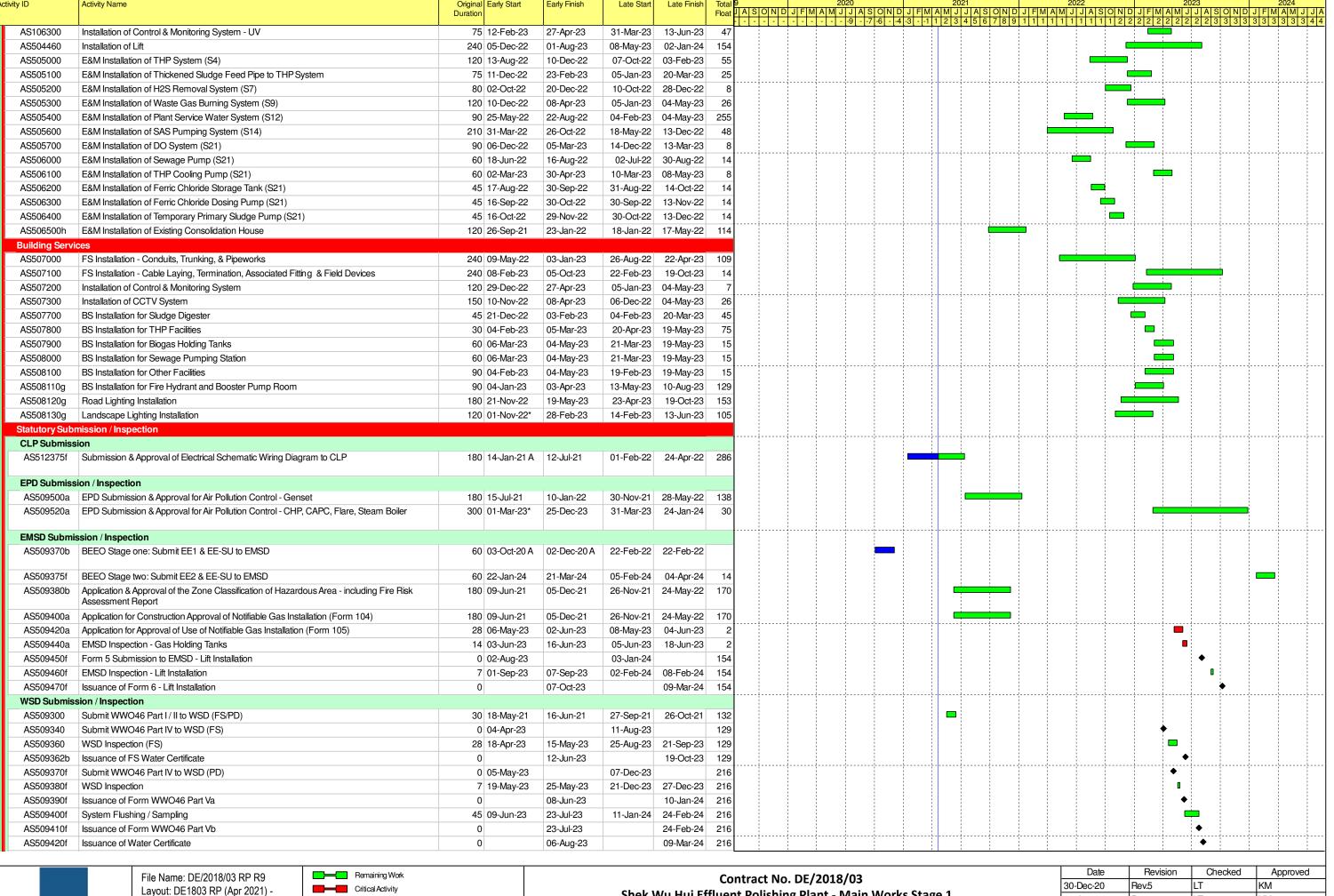




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Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM



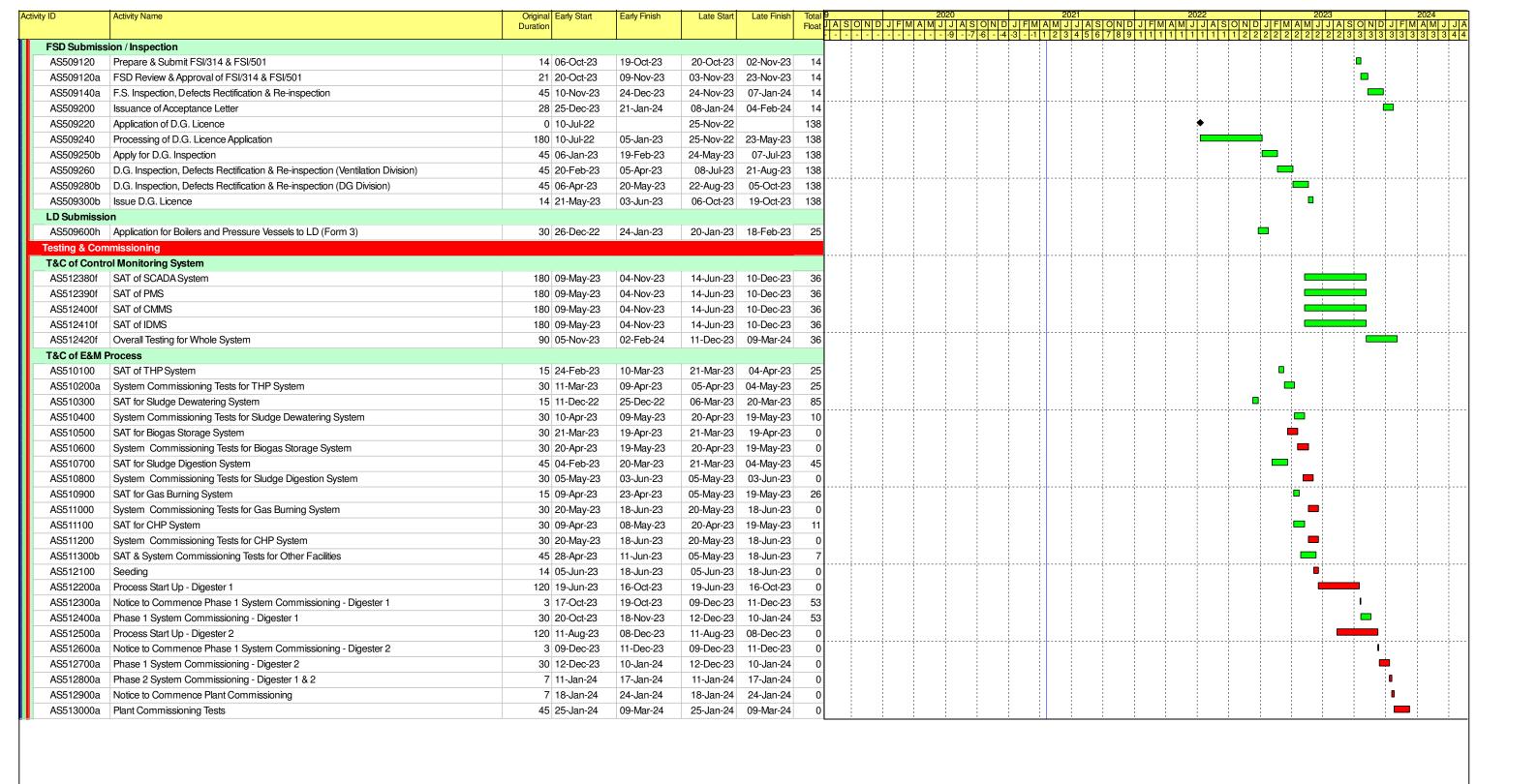
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File Name: DE/2018/03 RP R9 Layout: DE1803 RP (Apr 2021) -WBS Page 20 of 21



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 Apr 2021

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM



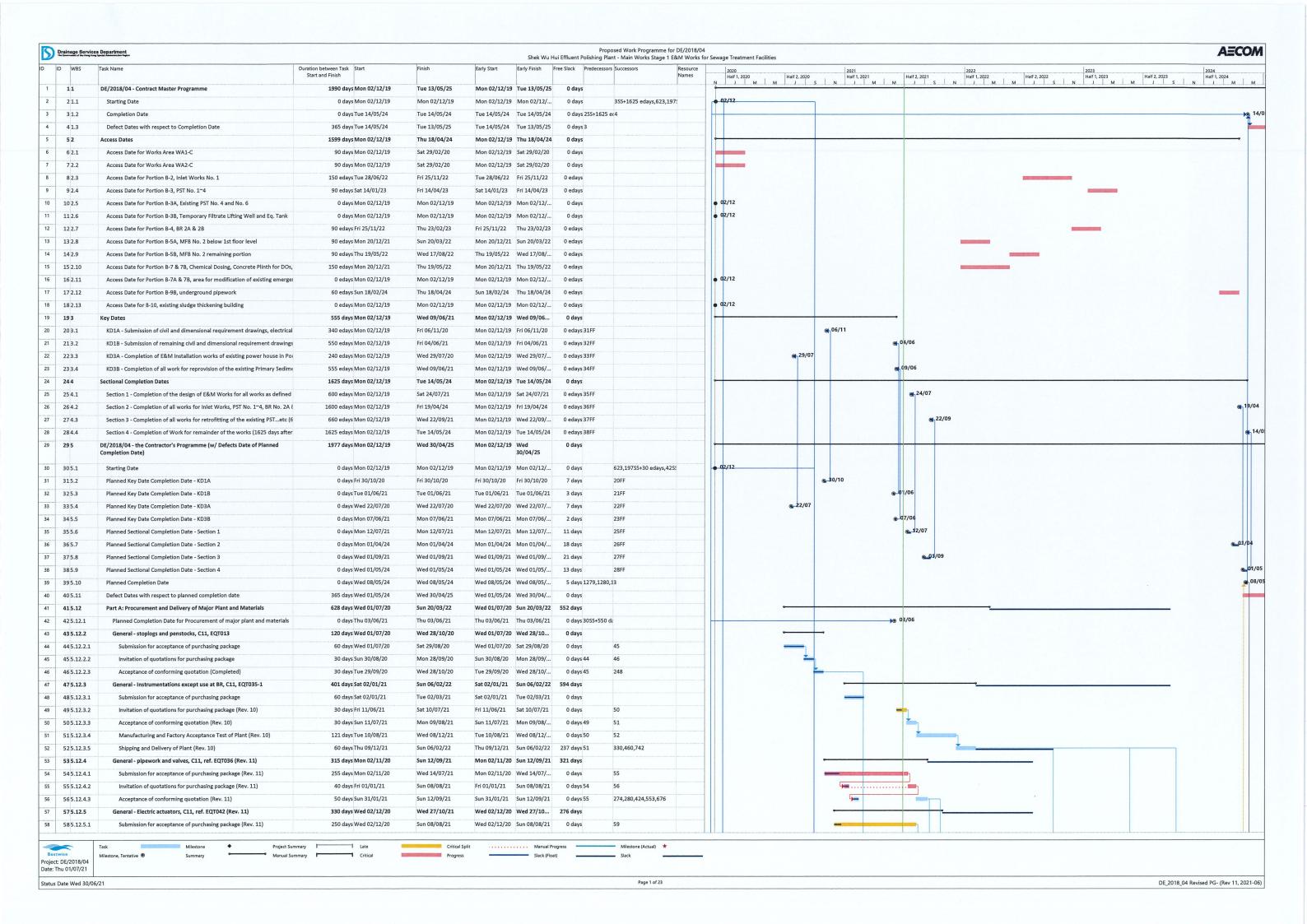
File Name: DE Layout: DE180 WBS Page 21 of 21

File Name: DE/2018/03 RP R9 Layout: DE1803 RP (Apr 2021) -WBS Page 21 of 21



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 Apr 2021

Date	Revision	Checked	Approved
30-Dec-20	Rev.5	LT	KM
26-Jan-21	Rev.6	LT	KM
26-Feb-21	Rev.7	LT	KM
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM



Drainage Services	Department gesid Administration Register				Shek Wu H		posed Work Programm ant - Main Works Stage		Sewage Treatment Facilitie	es							AEC
ID WBS	Task Name	Duration between Task Start Start and Finish	Finish	Early Start		Free Slack Predecesso		Resource Names	2020		2021	1	2022		2023	1	2024
59 5.12.5.2	Invitation of quotations for purchasing package (Rev. 11)	30 days Mon 09/08/21	Tue 07/09/21	Mon 09/09/21	Tue 07/09/21	0 days 58	60	Ivames	Half 1, 2020 N J M	M J S	N J M	M J S	Half 1, 20	22 Half 2, 2 M M J	1022   Half 1, 2023   S	M J S	Half 1, 2024
60 5.12.5.3	Acceptance of conforming quotation (Rev. 11)	50 days Wed 08/09/21	Wed 27/10/21	Wed 08/09/21		0 days 59	280,424,553,676										
615.12.6	General - HV Switchboards, C9, ref. EQT031 (Rev. 5)	105 days Mon 04/01/21	Sun 18/04/21		Sun 18/04/21		280,424,333,070										
625.12.6.1	Submission for acceptance of purchasing package	45 days Mon 04/01/21	Wed 17/02/21		Wed 17/02/	0 days	63				-						
63 5.12.6.2	Invitation of quotations for purchasing package	30 days Thu 18/02/21	Fri 19/03/21	Thu 18/02/21		0 days 62	64										
645.12.6.3	Acceptance of conforming quotation (Rev. 11, Completed)	30 days Sat 20/03/21	Sun 18/04/21		Sun 18/04/21	0 days 63	651,252										
65 5.12.7	General - LV Switchboards, C9, ref. EQT033 (Rev. 5)	120 days Mon 04/01/21	Mon 03/05/21	Mon 04/01/21		0 days											
665.12.7.1	Submission for acceptance of purchasing package	60 days Mon 04/01/21	Thu 04/03/21	Mon 04/01/21		0 days	67										
675.12.7.2	Invitation of quotations for purchasing package	30 days Fri 05/03/21	Sat 03/04/21	Fri 05/03/21	Sat 03/04/21	0 days 66	68				<u></u>						
685.12.7.3	Acceptance of conforming quotation (Rev. 11, Completed)	30 days Sun 04/04/21	Mon 03/05/21	Sun 04/04/21		0 days 67	251,526,397,650				<u></u>						
69 5.12.8	General - VSDs & Passive Type Harmonic Filters, C11, ref. EQT034 (Rev. !	444 days Fri 01/01/21	Sun 20/03/22	Fri 01/01/21	Sun 20/03/22												
705.12.8.1	Submission for acceptance of purchasing package	60 days Fri 01/01/21	Mon 01/03/21	Fri 01/01/21	Mon 01/03/	0 days	71										
715.12.8.2	Invitation of quotations for purchasing package	30 days Tue 02/03/21	Wed 31/03/21	Tue 02/03/21		0 days 70	72				_						
725.12.8.3	Acceptance of conforming quotation (Rev. 11, Completed)	30 days Thu 01/04/21	Fri 30/04/21	Thu 01/04/21		0 days 71	249,395,524,647				-						
73 5.12.8.4	Manufacturing and Factory Acceptance Test of Plant	90 days Sat 06/11/21	Thu 03/02/22	Sat 06/11/21		0 days 249,395,5							- I				
745.12.8.5	Shipping and Delivery of Plant to LVSB Sub-Contractor	45 days Fri 04/02/22	Sun 20/03/22		Sun 20/03/22	0 days 73	287SS-90 edays						<u> </u>				
75 5.12.9	General - 11kV/380V Stepdown Power Transformers, C11, EQT032 (Rev.	110 days Mon 18/01/21	Fri 07/05/21	Mon 18/01/21		0 days											
765.12.9.1	Submission for acceptance of purchasing package	50 days Mon 18/01/21	Mon 08/03/21	Mon 18/01/21		0 days	77										
775.12.9.2	Invitation of quotations for purchasing package	30 days Tue 09/03/21	Wed 07/04/21	Tue 09/03/21		0 days 76	78				<u>+</u>						
785.12.9.3	Acceptance of conforming quotation (Rev. 11, Completed)	30 days Thu 08/04/21	Fri 07/05/21	Thu 08/04/21		0 days 77	249,647				<u> </u>						
79 5.12.10	General - UPS, C11, EQT061 (Rev. 10)	125 days Mon 08/02/21	Sat 12/06/21		Sat 12/06/21		• • •										
80 5.12.10.1	Submission for acceptance of purchasing package	45 days Mon 08/02/21	Wed 24/03/21	Mon 08/02/21		0 days	81										
815.12.10.2	Invitation of quotations for purchasing package	50 days Thu 25/03/21	Thu 13/05/21	Thu 25/03/21		0 days 80	82				-						
825.12.10.3	Acceptance of conforming quotation	30 days Fri 14/05/21	Sat 12/06/21	Fri 14/05/21		0 days 81	249,395,524,647										
83 5.12.11	General - HV Cables, C11, EQT041 (Rev. 5)	65 days Mon 08/03/21	Tue 11/05/21		Tue 11/05/21						-						
845.12.11.1	Submission for acceptance of purchasing package	14 days Mon 08/03/21	Sun 21/03/21	Mon 08/03/21		0 days	85				_						
85 5.12.11.2	Invitation of quotations for purchasing package	21 days Mon 22/03/21	Sun 11/04/21		Sun 11/04/21	0 days 84	86										
86 5.12.11.3	Acceptance of conforming quotation	30 days Mon 12/04/21	Tue 11/05/21		Tue 11/05/21		249,647										
875.12.12	General - LV Cables, C11, EQT042 (Rev. 5)	65 days Mon 08/03/21	Tue 11/05/21		Tue 11/05/21												
885.12.12.1	Submission for acceptance of purchasing package	14 days Mon 08/03/21	Sun 21/03/21		Sun 21/03/21	0 days	89				_						
89 5.12.12.2	Invitation of quotations for purchasing package	21 days Mon 22/03/21	Sun 11/04/21		Sun 11/04/21	0 days 88	90				<u></u>						
905.12.12.3	Acceptance of conforming quotation	30 days Mon 12/04/21	Tue 11/05/21		Tue 11/05/21		249,395,524,647				<u> </u>						
915.13	Part B: Subletting of major sub-contract works	761 days Wed 01/01/20	Sun 30/01/22		Sun 30/01/22				1				<b></b>				
925.13.1	Planned Completion Date for major sub-contract works	0 days Thu 12/08/21	Thu 12/08/21		Thu 12/08/21		lay					12/08					
93 5.13.2	General - Independent BEAM Plus Consultant (04SC007)	150 days Wed 01/01/20	Fri 29/05/20		Fri 29/05/20					-							
945.13.2.1	Submission for acceptance of proposed Independent BEAM Plus Consu	60 edays Wed 01/01/20	Sun 01/03/20		Sun 01/03/20		95										
95 5.13.2.2	Acceptance of proposed Independent BEAM Plus Consultant	14 edays Sun 01/03/20	Sun 15/03/20	Sun 01/03/20	Sun 15/03/20	0 edays 94	96		<u>±</u> ,								
965.13.2.3	Engagement with an Independent BEAM Plus Consultant	7 days Sun 15/03/20	Sat 21/03/20	Sun 15/03/20	Sat 21/03/20	0 days 95			1								
975.13.2.4	Actual Date for engagement with an independent BEAM Plus Consultar	0 days Fri 29/05/20	Fri 29/05/20	Fri 29/05/20	Fri 29/05/20	0 days				<ul><li>29/05</li></ul>							
985.13.3	General - Conduction of Pump sump physical model test	275 days Fri 15/05/20	Sat 13/02/21	Fri 15/05/20	Sat 13/02/21	0 days					-						
99 5.13.3.1	Submission for acceptance of proposed hydraulic laboratory to conduc	7 edays Fri 15/05/20	Fri 22/05/20	Fri 15/05/20	Fri 22/05/20	0 edays	100			1							
100 5.13.3.2	Invitation to quotations for provision of service	7 edays Fri 22/05/20	Fri 29/05/20	Fri 22/05/20	Fri 29/05/20	0 edays 99	101			<u>+</u>							
101 5.13.3.3	Acceptance of proposed hydraulic laboratory	6 days Fri 29/05/20	Wed 03/06/20	Fri 29/05/20	Wed 03/06/	0 days 100	102			4							
102 5.13.3.4	Commencement of detailed proposal and conduction of test (Rev 10)	250 days Thu 04/06/20	Mon 08/02/21	Thu 04/06/20	Mon 08/02/	0 days 101	103			+							
103 5.13.3.5	Acceptance of hydraulic Report (Rev 10)	5 days Tue 09/02/21	Sat 13/02/21	Tue 09/02/21	Sat 13/02/21	0 days 102					+						
104 5.13.4	General - Independent Checking Engineer (04SC004)	127 days Wed 11/03/20	Wed 15/07/20	Wed 11/03/20	Wed 15/07	0 days			-								
105 5.13.4.1	Submission for acceptance of proposed Independent Checking Enginee	90 edays Wed 11/03/20	Tue 09/06/20	Wed 11/03/20	Tue 09/06/20	0 edays	106			_							
106 5.13.4.2	Acceptance of proposed Independent Checking Engineer	1 eday Wed 24/06/20	Thu 25/06/20	Wed 24/06/20	Thu 25/06/20	0 edays 105	107			+							
107 5.13.4.3	Engagement with an Independent Checking Engineer	21 days Thu 25/06/20	Wed 15/07/20		Wed 15/07/		108			±							
108 5.13.4.4	Actual Date for engagement with an ICE (Completed)	0 days Wed 15/07/20	Wed 15/07/20		Wed 15/07/					15/07							
109 5.13.5	General - Lifting Appliances (04SC008)	81 days Fri 01/05/20	Tue 21/07/20	Fri 01/05/20	Tue 21/07/20	0 days			-								
110 5.13.5.1	Submission for acceptance of subcontract works package	30 edays Fri 01/05/20	Sun 31/05/20		Sun 31/05/20		111		_	-							
111 5.13.5.2	Invitation of tender for subcontract works	21 edays Sun 31/05/20	Sun 21/06/20	Sun 31/05/20	Sun 21/06/20	0 edays 110	112		-	<u>+</u>							
112 5.13.5.3	Acceptance of conforming tender	30 edays Sun 21/06/20	Tue 21/07/20	Sun 21/06/20	Tue 21/07/20	0 edays 111	113			*							
113 5.13.5.4	Sub-contract work commencement date (Completed)	0 days Tue 21/07/20	Tue 21/07/20	Tue 21/07/20	Tue 21/07/20	0 days 112	253,398,527,652,10	142		21/07							
114 5.13.6	General - Mechanical Installations	244 days Tue 01/06/21	Sun 30/01/22	Tue 01/06/21	Sun 30/01/22	0 days							-				
115 5.13.6.1	Submission for acceptance of subcontract works package	120 days Tue 01/06/21	Tue 28/09/21	Tue 01/06/21	Tue 28/09/21	0 days	116										
116 5.13.6.2	Invitation of tender for subcontract works	75 days Wed 29/09/21	Sun 12/12/21	Wed 29/09/21	Sun 12/12/21	0 days 115	117					1					
117 5.13.6.3	Acceptance of conforming tender	30 days Mon 13/12/21	Tue 11/01/22	Mon 13/12/21	Tue 11/01/22	19 days 116	118FF						1				
	Task Milestone ◆ Project Sun Milestone, Tentative ● Summary Manual Sur		Critical S	Splits	Manual Pr		Milestone (Actual) Slack	*									
	Summery Manual Sur	- Cancer	riogles		2-ack (1·10)												
DE/2018/04 u 01/07/21																	

Drainage Servi	es Department					She	ek Wu Hui E			osed Work Programme for DE/2018/04 nt - Main Works Stage 1 E&M Works fo	r Sewage Treatment Facilities										-	AECO.
D ID WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Fini	ish Free	Slack Prede	cessors	Successors Resource Names	2020 Half 1, 2020 Half 2, 2020		2021 Half 1, 2021	1	Half 2, 2021	2022 Half 1, 20	)22 ,   Half 2,	2022	2023 Half 1, 2023	Half 2, 2023	2024 Half 1, 20	024
118 118 5.13.6.4	Sub-contract work commencement date		Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	Sun 30/	/01/22	0 days 117Fi	F		N	s N			J		MMJ	S N	J. J. M.		S N J	
119 119 5.13.7	General - Electrical Installations		Tue 01/06/21	Sun 30/01/22	Tue 01/06/21			0 days						-		-						
120 120 5.13.7.1			Tue 01/06/21	Wed 29/09/21	Tue 01/06/21			0 edays		121												
121 121 5.13.7.2		75 edays \	Wed 29/09/21	Mon 13/12/21	Wed 29/09/21	Mon 13	3/12/	0 edays 120		122												
122 122 5.13.7.3	Acceptance of conforming tender	30 edays I	Mon 13/12/21	Wed 12/01/22	Mon 13/12/21	Wed 12	2/01/ 18.3	38 edays 121		123FF						t						
123 123 5.13.7.4	Sub-contract work commencement date	1 day	Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	Sun 30/	/01/22	0 days 122FF	F							@ 3	0/01					
124 124 5.13.8	General - Facility Computerized Systems (SCADA, CMMS, PMS, IDMS)	303 days	Tue 01/09/20	Thu 01/07/21	Tue 01/09/20	Thu 01/	/07/21	0 days							-							
	(Rev. 10)																					
125 125 5.13.8.1			Tue 01/09/20	Sat 31/10/20	Tue 01/09/20			0 edays		126		#1										
126 126 5.13.8.2			Sat 31/10/20	Tue 08/06/21	Sat 31/10/20			0 edays 125		127		_										
127 127 5.13.8.3			Tue 08/06/21	Tue 29/06/21	Tue 08/06/21			2 edays 126		128					o1/07							
128 128 5.13.8.4			Thu 01/07/21	Thu 01/07/21 Fri 12/03/21	Thu 01/07/21			0 days 127 36 days		185		-			01/07							
129 <b>129 5.13.9</b> 130 130 5.13.9.1	General - Building Services Installations		Mon 02/11/20 Mon 02/11/20	Fri 01/01/21	Mon 02/11/20 Mon 02/11/20			0 edays		131												
131 131 5.13.9.2	Submission for acceptance of subcontract works package Invitation of tender for subcontract works		Fri 01/01/21	Sun 31/01/21		Sun 31/		0 edays 130		132			+									
132 132 5.13.9.3			Sun 31/01/21	Tue 02/03/21	Sun 31/01/21			LO edays 131		133FF			+									
133 133 5.13.9.4			Fri 12/03/21	Fri 12/03/21		Fri 12/0		0 days 132FF		250,396,525,649,794,874			•	12/03								
134 134 5.13.10	General - Mechanical Ventilation and Air Conditioning Installation (Rev.		Mon 02/11/20	Tue 31/08/21	Mon 02/11/20			0 days				-			-							
135 135 5.13.10		60 days I	Mon 02/11/20	Thu 31/12/20	Mon 02/11/20	Thu 31/	/12/20	0 days		136			-									
136 136 5.13.10.	2 Invitation of tender for subcontract works	30 edays	Thu 31/12/20	Sat 30/01/21	Thu 31/12/20	Sat 30/0	01/21	0 edays 135		137			<u>+</u>									
137 137 5.13.10.	Acceptance of conforming tender	120 days 5	Sun 31/01/21	Sun 30/05/21	Sun 31/01/21	Sun 30/	/05/21	31 days 136		138FF			*									
138 138 5.13.10.	Sub-contract work commencement date	0 days	Tue 31/08/21	Tue 31/08/21	Tue 31/08/21	Tue 31/	/08/21	0 days 137FF	F						@ 3	/08						
139 139 5.13.11	General - Emergency Power Generator Set (04SC006)	146 days \	Wed 01/07/20	Mon 23/11/20	Wed 01/07/20	Mon 23	3/11	0 days			-	-										
140 140 5.13.11.	Submission for acceptance of subcontract works package	60 edays \	Wed 01/07/20	Sun 30/08/20	Wed 01/07/20	Sun 30/	/08/20	0 edays		141												
141 141 5.13.11.	2 Invitation of tender for subcontract works	30 edays S	Sun 30/08/20	Tue 29/09/20	Sun 30/08/20	Tue 29/	/09/20	0 edays 140		142												
142 142 5.13.11.			Tue 29/09/20	Thu 29/10/20	Tue 29/09/20			0 edays 141		143FF												
143 143 5.13.11.			Sat 31/10/20	Mon 23/11/20	Sat 31/10/20			0 days 142FF	F													
144 144 5.13.12	General - Plumbing Installation (Rev. 5)		Wed 01/07/20	Tue 16/02/21	Wed 01/07/20																	
145 145 5.13.12.			Wed 01/07/20 Fri 31/07/20	Fri 31/07/20 Wed 14/10/20	Wed 01/07/20 Fri 31/07/20			0 edays 0 edays 145		146												
146 146 5.13.12. 147 147 5.13.12.			Mon 04/01/21	Sun 17/01/21	Mon 04/01/21			0 days 146		148			-									
148 148 5.13.12.			Sun 17/01/21	Tue 16/02/21	Sun 17/01/21			0 edays 147		149FF			_									
149 149 5.13.12.			Tue 16/02/21	Tue 16/02/21	Tue 16/02/21			0 days 148FF	F	1233			<b>6</b> 1	6/02								
150 150 5.13.13	General - Fire Services Installation (Rev. 5)	120 days I	Mon 04/01/21	Mon 03/05/21	Mon 04/01/21	Mon 03	3/05	90 days					-									
151 151 5.13.13.	Submission for acceptance of subcontract works package	60 days I	Mon 04/01/21	Thu 04/03/21	Mon 04/01/21	Thu 04/	/03/21	0 days		152												
152 152 5.13.13.	2 Invitation of tender for subcontract works	30 days i	Fri 05/03/21	Sat 03/04/21	Fri 05/03/21	Sat 03/0	04/21	0 days 151		153			<u> </u>									
153 153 5.13.13.	Acceptance of conforming tender (Completed)	30 days 5	Sun 04/04/21	Mon 03/05/21	Sun 04/04/21	Mon 03	3/05/	0 days 152		154FF				-								
154 154 5.13.13.	Sub-contract work commencement date	0 days I	Mon 03/05/21	Mon 03/05/21	Mon 03/05/21	Mon 03	3/05/	0 days 153FF	F	1184				@ 03/	05							
155 <b>155 5.13.14</b>	General - Lightning Protection System and Main Earthing System (Rev. 1	180 days I	Mon 11/01/21	Sat 10/07/21	Mon 11/01/21	Sat 10/0	07/21	0 days					-		+							
156 156 5.13.14	Submission for acceptance of subcontract works package (Rev. 10)	120 edays I	Mon 11/01/21	Tue 11/05/21	Mon 11/01/21	Tue 11/	/05/21	0 edays		157												
157 157 5.13.14.		30 edays	Tue 11/05/21	Thu 10/06/21	Tue 11/05/21			0 edays 156		158												
158 158 5.13.14			Thu 10/06/21	Sat 10/07/21	Thu 10/06/21			0 edays 157		159FF												
159 159 5.13.14			Sat 10/07/21	Sat 10/07/21	Sat 10/07/21			0 days 158FF	F						<b>@</b> 10/07							
160 160 5.13.15	General - CCTV Installation		Thu 01/07/21	Fri 31/12/21	Thu 01/07/21			0 days		163												
161 161 5.13.15			Thu 01/07/21	Mon 30/08/21	Thu 01/07/21 Mon 30/08/21			0 edays 0 edays 161		162 163												
162 162 5.13.15			Mon 30/08/21 Wed 29/09/21	Wed 29/09/21 Fri 29/10/21	Wed 29/09/21			0 edays 161 53 edays 162		164FF												
163 163 5.13.15 164 164 5.13.15			Fri 31/12/21	Fri 31/12/21	Fri 31/12/21			0 days 163FF								@ 31/12						
165 <b>165 5.13.16</b>	General - Civil Construction Work for underground pipework		Wed 01/07/20	Mon 10/08/20	Wed 01/07/20			0 days														
166 166 5.13.16			Wed 01/07/20	Tue 14/07/20	Wed 01/07/20			0 days		167	=											
167 167 5.13.16			Wed 15/07/20	Tue 28/07/20	Wed 15/07/20			0 days 166		168	<u></u>											
168 168 5.13.16			Wed 29/07/20	Tue 04/08/20	Wed 29/07/20			0 days 167		169FF	<u>+</u>											
169 169 5.13.16		0 days l	Mon 10/08/20	Mon 10/08/20	Mon 10/08/20	Mon 10	0/08/	0 days 168FF	F		@ 10/e	08										
170 <b>170</b> 5.13.17	General - Civil Construction Work for Temp. Filtrate Eq. System	40 days	Wed 01/07/20	Mon 10/08/20	Wed 01/07/20	Mon 10	0/08	0 days			-											
171 171 5.13.17	1 Submission for acceptance of subcontract works package	14 days \	Wed 01/07/20	Tue 14/07/20	Wed 01/07/20	Tue 14/	/07/20	0 days		172	-											
172 172 5.13.17	Invitation of tender for subcontract works	14 days	Wed 15/07/20	Tue 28/07/20	Wed 15/07/20	Tue 28/	/07/20	0 days 171		173	± 1											
173 173 5.13.17	Acceptance of conforming tender	7 days \	Wed 29/07/20	Tue 04/08/20	Wed 29/07/20	Tue 04/	/08/20	0 days 172		174FF	<u>*</u>											
174 174 5.13.17	4 Sub-contract work commencement date (Completed)		Mon 10/08/20	Mon 10/08/20	Mon 10/08/20			0 days 173FF	F		@ 10/G	8										
175 <b>175 5.13.18</b>	Mis - Modification of existing power house	109 days I	Mon 24/02/20	Fri 12/06/20	Mon 24/02/20	Fri 12/0	06/20	0 days			•											
	Task Milestone ◆ Project Su	mmary [	Late	Critical	Split		Manual Progre	255		■ Milestone (Actual) ★												
Bestwise	Milestone, Tentative  Summary  Manual Su		Critical	Progres	ss		Slack (Float)			Slack												
Project: DE/2018/04 Date: Thu 01/07/21																						
Status Date Wed 30,	0.71									Page 3 of 23										DF :	018_04 Revised PG- (	/D 11 202

Drainage Service	es Department			She			me for DE/2018/04 ge 1 E&M Works fo	r Sewage Treatment Facilitie	es						AEC
ID WBS	Task Name	Duration between Task Start and Finish	Finish	Early Start Early Fin	sh Free Slack Predec	essors Successors	Resource Names	2020 Half 1, 2020	Half 2, 2020	2021 Half 1, 2021	Half 2, 2021	2022 Half 1, 2022 Half 2, 2022	2023 Half 1, 2023	Half 2, 2023	2024 Half 1, 2024
176 5.13.18.1	. Submission for acceptance of subcontract works package	90 days Mon 24/02/20	Sat 23/05/20	Mon 24/02/20 Sat 23/0	05/20 0 days	177			м <u> </u>		I M J I S			M L J L S L	М Ј. Ј. М.
177 5.13.18.2	Invitation of tender for subcontract works	14 days Sun 24/05/20	Sat 06/06/20	Sun 24/05/20 Sat 06/	06/20 0 days 176	178			<u>+</u>						
178 5.13.18.3	Acceptance of conforming tender	1 day Sun 07/06/20	Sun 07/06/20	Sun 07/06/20 Sun 07/	06/20 0 days 177	179FF			<b>+</b>						
179 5.13.18.4	Sub-contract work commencement date (Completed)	0 days Fri 12/06/20	Fri 12/06/20	Fri 12/06/20 Fri 12/0	6/20 0 days 178FF	1155			12/06						
180 5.14	Part C: General Design Submissions	705 days Mon 02/12/19	Sat 06/11/21	Mon 02/12/19 Sat 06/	11/21 0 days			-				•			
1815.14.1	Planned Sectional Completion Date - Section 1	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21 Mon 12	/07/ 0 days 182FF	,183Ff					@ 12/07				
182 5.14.2	CDS001 - General Design Parameters (Rev. 11)	400 edays Fri 05/06/20	Sat 10/07/21	Fri 05/06/20 Sat 10/0	07/21 2.38 edays	181FF									
183 5.14.3	CDS020 - Electrical Installation Typical Details	355 edays Mon 20/07/20	Sat 10/07/21	Mon 20/07/20 Sat 10/0	07/21 2.38 edays	181FF									
184 5.14.4	CDS009 - Detailed Design for Plant Service Water System	125 edays Mon 01/03/21	Sun 04/07/21	Mon 01/03/21 Sun 04/	07/21 8.38 edays	181FF					_				
185 5.14.5	CDS012 - Detailed Design for SCADA System	301 edays Sat 09/01/21	Sat 06/11/21	Sat 09/01/21 Sat 06/2	11/21 0 edays 128	181FF,249FF,395F	F,524FI								
186 5.14.6	CDS13-1 - Detailed Design for CCTV System	90 edays Thu 01/04/21	Wed 30/06/21	Thu 01/04/21 Wed 30	/06/ 12.38 edays	181FF									
187 5.14.7	CDS13-2 - Detailed Design for Gas Detection and Monitoring System	90 edays Mon 01/03/21	Sun 30/05/21	Mon 01/03/21 Sun 30/	05/21 43.38 edays	181FF									
188 5.14.8	CDS14-1 - Detailed Design for Power monitoring system (PMS)	90 edays Mon 01/03/21	Sun 30/05/21	Mon 01/03/21 Sun 30/	05/21 43.38 edays	181FF				-					
189 5.14.9	CDS14-2 - Detailed Design for Computerized maintenance and manageme	90 edays Mon 01/03/21	Sun 30/05/21	Mon 01/03/21 Sun 30/	05/21 43.38 edays	181FF				_					
190 5.14.10	CDS14-3 - Detailed Design for Information and documents management s	90 edays Mon 01/03/21	Sun 30/05/21	Mon 01/03/21 Sun 30/	05/21 43.38 edays	181FF				-					
191 5.14.11	CDS031 - Detailed Design for MVAC System	90 edays Mon 01/03/21	Sun 30/05/21	Mon 01/03/21 Sun 30/	05/21 43.38 edays	181FF				-					
192 5.14.12	CDS042 - Detailed Design for Lightning Protection System	120 edays Mon 11/01/21	Tue 11/05/21	Mon 11/01/21 Tue 11/	05/21 62.38 edays	181FF									
193 5.14.13	Design submissions for E&M installation works of existing sludge thickening	300 edays Mon 02/12/19	Sun 27/09/20	Mon 02/12/19 Sun 27/		181FF									
194 5.14.14	Design Submission for Earthing and Lightning (Rev. 8)	147.38 edays Mon 04/01/21	Mon 31/05/21	Mon 04/01/21 Mon 31	/05/ 42 edays	181FF									
195 5.15	Works Area WA1-C	374 days Wed 01/01/20	Fri 08/01/21	Wed 01/01/20 Fri 08/0				•							
196 5.15.1	Actual Access / Handover Date	1 day Fri 21/02/20	Fri 21/02/20	Fri 21/02/20 Fri 21/0	2/20 0 days	200		<b>⊛</b> _21/02							
197 5.15.2	Submission for acceptance of subcontract works package (Site Office) (04	60 days Wed 01/01/20	Sat 29/02/20	Wed 01/01/20 Sat 29/0	02/20 0 days 2SS+3	0 eda <sub>)</sub> 198									
198 5.15.3	Invitation of quotations for subcontract works (Site Office)	21 days Sun 01/03/20	Sat 21/03/20	Sun 01/03/20 Sat 21/0	03/20 0 days 197	199		<u>*</u>							
199 5.15.4	Acceptance of conforming quotation (Site Office)	10 days Sun 22/03/20	Tue 31/03/20	Sun 22/03/20 Tue 31/	03/20 0 days 198	200		4							
200 5.15.5	Design and Fabrication of the Contractor's Site Accommodations	120 days Wed 01/04/20	Wed 29/07/20	Wed 01/04/20 Wed 29	/07/ 0 days 196,19	99 206		+							
201 5.15.6	Submission for acceptance of subcontract works package (Site Office Fou	20 days Fri 01/05/20	Wed 20/05/20	Fri 01/05/20 Wed 20	/05/ 0 days	202		_							
202 5.15.7	Invitation of quotations for subcontract works (Site Office Foundation)	18 days Thu 21/05/20	Sun 07/06/20	Thu 21/05/20 Sun 07/	06/20 0 days 201	203									
203 5.15.8	Acceptance of conforming quotation (Site foundation)	7 days Mon 08/06/20	Sun 14/06/20	Mon 08/06/20 Sun 14/	06/20 0 days 202	204			4						
2045.15.9	Design and Construction of the Contractor's Site Office foundation	30 days Mon 15/06/20	Tue 14/07/20	Mon 15/06/20 Tue 14/	07/20 0 days 203	205									
205 5.15.10	Construction of Contractor's Site Office foundation (Completed)	47 days Wed 15/07/20	Sun 30/08/20	Wed 15/07/20 Sun 30/	08/20 0 days 204	206			<u>*</u>						
206 5.15.11	Site Installation of the Contractor's Site Accommodations (MiC) (Rev. 5)	120 days Mon 31/08/20	Mon 28/12/20	Mon 31/08/20 Mon 28	/12/ 0 days 200,20	05 207			+						
207 5.15.12	Anticipated date of working at site (Rev. 5) (Completed)	4 days Tue 05/01/21	Fri 08/01/21	Tue 05/01/21 Fri 08/0	1/21 0 days 206					+					
208 5.16	Works Area WA2-C	1 day Fri 21/02/20	Fri 21/02/20	Fri 21/02/20 Fri 21/0	2/20 0 days			•							
209 5.16.1	Actual Access / Handover Date	1 day Fri 21/02/20	Fri 21/02/20	Fri 21/02/20 Fri 21/0	2/20 0 days			⊚ 21/02							
210 5.17	Inlet Works No. 1, Portion B-2 (PS 6B.2.1)	1400 days Mon 01/06/20	Mon 01/04/24	Mon 01/06/20 Mon 01	/04 0 days						++			+	
211 5.17.1	Planned Key Date Completion Date - KD1A, IW	0 days Fri 30/10/20	Fri 30/10/20	Fri 30/10/20 Fri 30/1	0/20 0 days 245FF	,246FF				30/10					
212 5.17.2	Planned Key Date Completion Date - KD1B, IW	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21 Tue 01/	06/21 0 days 247FF						@ 0°1/06				
213 5.17.3	Planned Sectional Completion Date - Section 1, IW	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21 Mon 12	/07/ 0 days 248FF	,249Ff					@ 12/07				
214 5.17.4	Planned Sectional Completion Date - Section 2, IW	0 days Mon 01/04/24	Mon 01/04/24	Mon 01/04/24 Mon 01	/04/ 0 days										•
215 5.17.5	Selection of Suppliers for major plant and materials for Inlet Works No.	335 days Mon 01/06/20	Sat 01/05/21	Mon 01/06/20 Sat 01/0	05/21 39.5 days						<u>                                    </u>				
216 5.17.5.1	Inlet Works - inlet Pumps (Marking Scheme Approach), C11, ref. EQT006	120 days Mon 01/06/20	Mon 28/09/20	Mon 01/06/20 Mon 28/	09/20 0 days										
217 5.17.5.1.1		60 days Mon 01/06/20	Thu 30/07/20	Mon 01/06/20 Thu 30/0	7/20 0 days	218			-						
	marking scheme														
218 5.17.5.1.2	Invitation of quotations for purchasing package	30 days Fri 31/07/20	Sat 29/08/20	Fri 31/07/20 Sat 29/0		219									
219 5.17.5.1.3	Acceptance of conforming quotation (Completed)	30 days Sun 30/08/20	Mon 28/09/20	Sun 30/08/20 Mon 28/		248									
220 5.17.5.2	Inlet Works - mechanical raked bar screens, C11, ref. EQT052	58 days Fri 26/06/20	Sat 22/08/20	Fri 26/06/20 Sat 22/0											
221 5.17.5.2.1	Submission for acceptance of purchasing package	14 days Fri 26/06/20	Thu 09/07/20	Fri 26/06/20 Thu 09/0		222									
222 5.17.5.2.2		14 days Fri 10/07/20	Thu 23/07/20	Fri 10/07/20 Thu 23/0		223			1						
223 5.17.5.2.3	Acceptance of conforming quotation (Completed)	30 days Fri 24/07/20	Sat 22/08/20	Fri 24/07/20 Sat 22/0		248									
224 5.17.5.3	Inlet Works - screening conveyors and Diverters, C11, ref. EQT053	74 days Wed 01/07/20	Sat 12/09/20	Wed 01/07/20 Sat 12/0											
225 5.17.5.3.1	Submission for acceptance of purchasing package	30 days Wed 01/07/20	Thu 30/07/20	Wed 01/07/20 Thu 30/0		226			_						
226 5.17.5.3.2	Invitation of quotations for purchasing package	14 days Fri 31/07/20	Thu 13/08/20	Fri 31/07/20 Thu 13/0		227									
227 5.17.5.3.3		30 days Fri 14/08/20	Sat 12/09/20	Fri 14/08/20 Sat 12/0		248			+						
228 5.17.5.4	Inlet Works - screening screw type compactors, C11, ref. EQT003	105 days Wed 01/07/20	Tue 13/10/20	Wed 01/07/20 Tue 13/1											
229 5.17.5.4.1		45 days Wed 01/07/20	Fri 14/08/20	Wed 01/07/20 Fri 14/08		230									
230 5.17.5.4.2		30 days Sat 15/08/20	Sun 13/09/20	Sat 15/08/20 Sun 13/0		231			+1						
231 5.17.5.4.3		30 days Mon 14/09/20	Tue 13/10/20	Mon 14/09/20 Tue 13/1		248			+						
232 5.17.5.5	Inlet Works - grit removal system, C11, ref. EQT004	90 days Wed 01/07/20	Mon 28/09/20	Wed 01/07/20 Mon 28/											
233 5.17.5.5.1	Submission for acceptance of purchasing package	30 days Wed 01/07/20	Thu 30/07/20	Wed 01/07/20 Thu 30/0	7/20 0 days	234									
									- Annual Control						
twise	Task Milestone ♦ Project Sum Milestone, Tentative ♥ Summary Manual Sum		Critical Progres		Manual Progress	Milestone (Actual) Slack	*					**			
DE/2018/04 nu 01/07/21	Milestone, Tentative Summary Manual Sum	i Critical	Progres		nuch (Flodi)	SIdCK									

Drainage Services	pocial Administrative Region				Shek Wu	ı Hui Effluent Polishing Plant - Main Works Stage	1 E&M Works for	Sewage Treatment Facilities						A
ID WBS	Task Name	Duration between Task Start and Finish	Finish	Early Start		Free Slack Predecessors Successors	Resource	2020		2021		2022	2023	2024
				5 · 0 · 10 · 10 · 10 · 10 · 10 · 10 · 10	6 + 20/00/20		Names	N J M M	Half 2, 2020	N J J	M Half 2, 2021	S N J M M J S S		Half 1, 2024 J S N J
234 5.17.5.5.2	Invitation of quotations for purchasing package	30 days Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20									
235 5.17.5.5.3	Acceptance of conforming quotation (Completed)	30 days Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20									
236 5.17.5.6	Inlet Works - grit classifiers, C11, ref. EQT005	90 days Wed 01/07/20	Mon 28/09/20	Wed 01/07/20	Mon 28/09/2									
7 237 5.17.5.6.1	Submission for acceptance of purchasing package	30 days Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20									
3 238 5.17.5.6.2	Invitation of quotations for purchasing package	30 days Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20									
239 5.17.5.6.3	Acceptance of conforming quotation (Completed)	30 days Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20									
0 240 5.17.5.7	Inlet Works - Fixed Bar Screen, C11, ref. EQT046 (Rev. 10)	310 days Fri 26/06/20	Sat 01/05/21	Fri 26/06/20	Sat 01/05/2:						7			
1 241 5.17.5.7.1	Submission for acceptance of purchasing package	14 days Fri 26/06/20	Thu 09/07/20	Fri 26/06/20	Thu 09/07/2									
2 242 5.17.5.7.2	Invitation of quotations for purchasing package	266 days Fri 10/07/20	Thu 01/04/21	Fri 10/07/20	Thu 01/04/2						1			
3 243 5.17.5.7.3	Acceptance of conforming quotation (Rev. 10)	30 days Fri 02/04/21	Sat 01/05/21	Fri 02/04/21	Sat 01/05/21									
4 244 5.17.6	Design Submissions for IW	479 days Wed 15/07/20	Sat 06/11/21	Wed 15/07/20										
5 245 5.17.6.1	Electrical schematic drawings for Inlet Works No. 1	90 days Wed 15/07/20	Mon 12/10/20	Wed 15/07/20										
6 246 5.17.6.2	CDS080-1 - Civil and dimensional requirements drawings for Inlet Works No. 1		Thu 15/10/20	Tue 01/09/20	Thu 15/10/20	0 days 211FF								
7 247 5.17.6.3	CDS081-1 - Civil and dimensional requirements drawings for Inlet Wor	210 days Fri 28/08/20	Thu 25/03/21	Fri 28/08/20	Thu 25/03/2									
8 248 5.17.6.4	CDS002 - Detailed Design for Inlet Works No. 1	144 edays Mon 01/03/21	Fri 23/07/21	Mon 01/03/21						¥.				
9 249 5.17.6.5	CDS021 - Detailed Design for Electrical Installations for Inlet Works No	. 166.63 edays Sun 23/05/21	Sat 06/11/21	Sun 23/05/21			F				<b>3</b>			
0 250 5.17.6.6	CDS034-1 - Detailed Design for Electrical Installations BS at Inlet Work		Sat 10/07/21	Fri 12/03/21		2.38 edays 133 348,213FF					-			
1 251 5.17.6.7	CDS025-1 - Detailed Design for LV Switchboards for Inlet Works No. 1	60 edays Mon 03/05/21	Fri 02/07/21			10 edays 68 287,213FF								
2 252 5.17.6.8	CDS026-1 - Detailed Design for HV Switchboards for Inlet Works No. 1	60 edays Sun 18/04/21	Thu 17/06/21			1 0.63 edays 64 291,213FF					Ť			
3 253 5.17.6.9	CDS050-1 - Detailed Design for Lifting Appliances - Inlet Works No. 1	210 edays Tue 01/09/20	Tue 30/03/21	Tue 01/09/20										
4 254 5.17.7	Manufacturing and Delivery of Plant & Materials	641 days Tue 30/03/21	Fri 30/12/22	Tue 30/03/21	Fri 30/12/22	215 days								-
5 255 5.17.7.1	Inlet Pumps, EQT006	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/2								-	
6 256 5.17.7.1.1	Manufacturing of Inlet Pumps, EQT006	240 days Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/2	2 0 days 248 257								
7 257 5.17.7.1.2	Factory Acceptance Test of Plant (to be witnessed by PM)	60 days Mon 21/03/22	Thu 19/05/22	Mon 21/03/22	Thu 19/05/2	2 129 days 256 258								
8 258 5.17.7.1.3	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/2	2 225 days 257,305SS-6323								
9 259 5.17.7.2	Mechanical Raked Bar Screen, EQT052	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/2	2 31 days 319					-		7	
0 260 5.17.7.2.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/2	2 189 days 248 261						-		
1 261 5.17.7.2.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/2	2 31 days 260,305SS-6321,324						7		
2 262 5.17.7.3	Screening Conveyors and Diverters, EQT053	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/2	2 357 days					•			
3 263 5.17.7.3.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/2	2 189 days 248 264								
4 264 5.17.7.3.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/2	2 143 days 263,305SS-6322						<b>*</b>		
5 265 5.17.7.4	Screening Screw Type Compactors, EQT003	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/2	2 31 days 319					-			
6 266 5.17.7.4.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/2	2 189 days 248 267								
7 267 5.17.7.4.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/2	2 173 days 266,305SS-6327						¥		
8 268 5.17.7.5	Grit Removal System, EQT004	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/2	2 373 days	***************************************				-			
9 269 5.17.7.5.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/2	2 189 days 248 270								
0 270 5.17.7.5.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/2	2 246 days 269,305SS-6325						<b>*</b>		
1 271 5.17.7.6	Grit Classifiers, EQT005	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/2	2 387 days					-		•	
2 272 5.17.7.6.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	2 189 days 248 273								
3 273 5.17.7.6.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/2	2 260 days 272,305SS-6326						<b>+</b>		
4 274 5.17.7.7	Pipework, EQT036 (Rev. 11)	438 days Mon 13/09/21	Thu 24/11/22	Mon 13/09/21	Thu 24/11/2	2 288 days 56								+
5 275 5.17.7.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days Mon 13/09/21	Tue 10/05/22	Mon 13/09/21	Tue 10/05/22	2 138 days 248 276					1	<u> </u>		
6 276 5.17.7.7.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/2	2 151 days 275,305SS-6328						<b>*</b>		
7 277 5.17.7.8	Stoplogs and Penstocks, EQT013	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/2	2 168 days					-			
8 278 5.17.7.8.1	Manufacturing and Factory Acceptance Test of Plant	300 days Sat 24/07/21	Thu 19/05/22	Sat 24/07/21	Thu 19/05/2	2 129 days 248 279						<b>—</b>		
9 279 5.17.7.8.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/2	2 31 days 278,305SS-6319						7		
0 280 5.17.7.9	Valves and Actuators, EQT036, EQT042 (Rev. 11)	393 days Thu 28/10/21	Thu 24/11/22	Thu 28/10/21	Thu 24/11/2	2 288 days 56,60								
1 281 5.17.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days Thu 28/10/21	Fri 24/06/22	Thu 28/10/21	Fri 24/06/22	93 days 248 282								
2 282 5.17.7.9.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/2	2 151 days 281,305SS-6328						7		
3 283 5.17.7.10	Lifting Appliances	590 days Tue 30/03/21	Wed 09/11/22	Tue 30/03/21	Wed 09/11	. 143 days					+++	<del>                                      </del>		
4 284 5.17.7.10.1	Manufacturing and Factory Acceptance Test of Plant	240 days Tue 30/03/21	Wed 24/11/21	Tue 30/03/21	Wed 24/11/.	305 days 253 285					*	<del>                                      </del>		
5 285 5.17.7.10.2	Shipping and Delivery of Plant to site	45 days Mon 26/09/22	Wed 09/11/22	Mon 26/09/22	Wed 09/11/.	16 days 284,305SS-6309						, , , , , , , , , , , , , , , , , , ,		
6 286 5.17.7.11	LV Switchboards	369 days Sat 06/11/21	Wed 09/11/22	Sat 06/11/21	Wed 09/11	. 153 days								
7 287 5.17.7.11.1	IW - Manufacturing of Plant	240 days Sat 06/11/21	Sun 03/07/22	Sat 06/11/21	Sun 03/07/2	2 0 days 249,251,745288						<b>*</b>		
8 288 5.17.7.11.2	IW - Factory Acceptance Test of Plant (to be witnessed by PM)	60 days Mon 04/07/22	Thu 01/09/22	Mon 04/07/22	Thu 01/09/2	2 24 days 287 289						<del>*</del>		
9 289 5.17.7.11.3		45 days Mon 26/09/22	Wed 09/11/22	Mon 26/09/22	Wed 09/11/.	60 days 305SS-60 ed334						<b>-</b>		
0 290 5.17.7.12	HV Switchboards, EQT031	510 days Fri 18/06/21	Wed 09/11/22	Fri 18/06/21	Wed 09/11							<del>                                      </del>		
1 291 5.17.7.12.1		240 days Fri 18/06/21	Sat 12/02/22		Sat 12/02/22						+			
2 292 5.17.7.12.2		90 days Sun 13/02/22	Fri 13/05/22			135 days 291 293						<u> </u>		
	, , , , , , , , , , , , , , , , , , , ,	, ,												
	Task Milestone Project S		Critical	Split	Manua	Progress Milestone (Actual)								
	Milestone, Tentative   Summary  Manual S  Manual S	ummary Critical	Progre	55	Slack (F	-roat) Slack								
t: DE/2018/04 Thu 01/07/21														

Drainage Services Dep The Government of the Hung Kong Special A	partment Assessment See Region					Shek Wu l		oposed Work Program Plant - Main Works Sta		Sewage Treatment Facilities							AECC
ID WBS Tasi	k Name	Duration between Task Start Start and Finish	rt	Finish	Early Start	Early Finish	Free Slack Predeces	sors Successors	Resource Names	2020 Half 1, 2020 Half 2, 2020	2021 Half 1, 2021	Half 2, 2021	2022 Half 1, 2022	Half 2, 2022	2023 Half 1, 2023	2024 Half 2, 2023 Half 1,	2024
93 293 5.17.7.12.3	IW - Shipping and Delivery of Plant to site	45 days Mo	on 26/09/22	Wed 09/11/22	Mon 26/09/22	Wed 09/11/	0 days 292,305	SS-6		N J M M J S N		J S	N J M	M   J   S		M 1 2 S   N   11811,	
94 2945.17.7.13	11kV/380V Stepdown Power Transformers, EQT032	369 days Sat		Wed 09/11/22	Sat 06/11/21						-				-		
95 295 5.17.7.13.1	IW - Manufacturing and Factory Acceptance Test of Plant	240 days Sat	06/11/21	Sun 03/07/22	Sat 06/11/21	Sun 03/07/22	84 days 249	296									
96 296 5.17.7.13.2	IW - Shipping and Delivery of Plant to site	45 days Mo	on 26/09/22	Wed 09/11/22	Mon 26/09/22	Wed 09/11/	60 days 295,305	SS-6336						7			
97 <b>297 5.17.7.14</b>	PLC System	420 days Sat	: 06/11/21	Fri 30/12/22	Sat 06/11/21	Fri 30/12/22	117 days										
98 298 5.17.7.14.1	Manufacturing of Plant, PLC for IW	300 days Sat	06/11/21	Thu 01/09/22	Sat 06/11/21	Thu 01/09/22	0 days 249	299									
99 299 5.17.7.14.2	Factory Acceptance Test of Plant, PLC for IW (To be witnessed by PN	60 days Fri (	02/09/22	Mon 31/10/22	Fri 02/09/22	Mon 31/10/	0 days 298	300						*	դ		
00 300 5.17.7.14.3	Shipping and Delivery of Plant to site	60 days Tue	e 01/11/22	Fri 30/12/22	Tue 01/11/22	Fri 30/12/22	9 days 305SS-6	0 ed337							<u>*</u>		
01 301 5.17.7.15	Fixed Bar Screen, EQT046	489 days Sat	24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/22	270 days					-			•		
02 302 5.17.7.15.1	IW - Manufacturing and Factory Acceptance Test of Plant	240 days Sat	24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	204 days 248	303				·					
03 303 5.17.7.15.2	IW - Shipping and Delivery of Plant to site	45 days Tue		Thu 24/11/22	Tue 11/10/22			SS-4320									
04 304 5.17.8	Site Installation Work	440 days Fri		Wed 07/02/24		Wed 07/02											
05 305 5.17.8.1	Tentative Civil Handover Date, Portion B-2, Inlet Works No. 1 (Rev. 5)		25/11/22	Fri 25/11/22		Fri 25/11/22	0 days	309,307,348FS+1	20 days,						© 25/11 © 14/02		
06 306 5.17.8.2	Tentative Civil Handover Date, HV cables draw pits from MFB2 to IW		14/02/23	Tue 14/02/23	Tue 14/02/23			340FF+30 days							@_14/02		
07 307 5.17.8.3	Commencement of E&M Installation at Inlet Works No. 1	439 days Sat		Wed 07/02/24		Wed 07/02	5 days 305										
08 308 5.17.8.3.1 09 <b>309 5.17.8.3.2</b>	Provision of Temporary Water Supply, Electricity Supply, Lighting, Water Supply, Lighting, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Water Supply, Lighting, Lighting, Water Supply, Lighting, Water Supply, Lighting, Lighting, Lighting, Lighting, Lighting, Lighting, Lighting, Lig	30 days Sat		Sun 25/12/22	Sat 26/11/22 Sat 26/11/22			318SS+30 days,32	22 323								
10 310 5.17.8.3.2.	Installation of Lifting Appliances at Inlet Works No. 1  1/F EOT Crane LA-01-01 SWL 5t	45 days Tue		Sun 16/04/23 Thu 23/02/23	Tue 10/01/23				LA - A x 4~6								
1 3115.17.8.3.2.:	1/F EOT Crane LA-01-02 SWL 5t	45 days Tue		Thu 23/02/23	Tue 10/01/23				LA - B x 4~6								
12 3125.17.8.3.2.:	1/F EOT Crane LA-01-03 SWL 5t	45 days Tue		Thu 23/02/23	Tue 10/01/23				LA - C x 4~6								
13 313 5.17.8.3.2.4	UG EOT Crane LA-01-04 SWL 10t	45 days Sat		Mon 09/01/23	Sat 26/11/22			310,311,312,317	LA - A x 4~6								
4 314 5.17.8.3.2.!	UG EOT Crane LA-01-05 SWL 10t	45 days Sat	26/11/22	Mon 09/01/23		Mon 09/01/		310,311,312,317	LA - B x 4~6								
15 315 5.17.8.3.2.0	1/F Retractable Crane LA-01-06 SWL 10t	45 days Fri 2	24/02/23	Sun 09/04/23	Fri 24/02/23	Sun 09/04/23	0 days 312	317	LA - C x 4~6						*		
16 316 5.17.8.3.2.	Submission of T&C Plan and Procedures of LA for acceptance	14 days Sat	26/11/22	Fri 09/12/22	Sat 26/11/22	Fri 09/12/22	121 days	317									
7 317 5.17.8.3.2.	T&C, Loading Test for Lifting Appliances	7 days Mo	on 10/04/23	Sun 16/04/23	Mon 10/04/23	Sun 16/04/23	0 days 310,311	,312320	LA - B x 4~6								
318 5.17.8.3.3	Mechanical Installations for Inlet Works No. 1	250 days Mo	on 26/12/22	Fri 01/09/23	Mon 26/12/22	Fri 01/09/23	0 days 309SS+3	0 d:333SS+14 days,34	15,338S:						<b></b>		
319 5.17.8.3.3.:	Installation of penstocks and stoplogs (Penstock 35nos, Stoplogs 3	120 days Mo	n 26/12/22	Mon 24/04/23	Mon 26/12/22	Mon 24/04/	0 days 265,259	,275328,329,332	ME - E x 4~								
320 5.17.8.3.3.:	Installation of fixed bar screen (x1), EQT046	7 days Mo	n 17/04/23	Sun 23/04/23	Mon 17/04/23	Sun 23/04/23	0 days 317,303	324	ME - D x 2^								
1 321 5.17.8.3.3.:	Installation of mechanical raked coarse bar screens (x4), EQT052	90 days Mo	n 26/12/22	Sat 25/03/23	Mon 26/12/22			322	ME - A x 4~								
2 322 5.17.8.3.3.4	Installation of screening conveyors (x6), EQT053	30 days Mo		Tue 16/05/23	Mon 17/04/23				ME - A x 4~								
23 323 5.17.8.3.3.!	Installation of inlet pumps (x5), EQT006	21 days Sat		Fri 28/07/23	Sat 08/07/23		0 days 309,328		ME - B x 4~								
24 324 5.17.8.3.3.0	Installation of mechanical raked fine bar screens (x4), EQT052	75 days Mo		Fri 07/07/23	Mon 24/04/23		0 days 320,261		ME - B x 4~							<b> </b>	
25 325 5.17.8.3.3.1 26 326 5.17.8.3.3.1	Installation of grit removal system (x3), EQT004  Installation of grit classifiers (x2), EQT005	14 days Sat 21 days Sat		Fri 11/08/23 Fri 01/09/23	Sat 29/07/23 Sat 12/08/23		0 days 323,270 127 days 325,273	326	ME - B x 4~								
27 327 5.17.8.3.3.	Installation of compactors (x2), EQT003	21 days We		Tue 06/06/23			214 days 322,267		ME - A x 4^								
28 3285.17.8.3.3.	Installation of pipework and valves, EQT036	30 days Tue		Wed 24/05/23	Tue 25/04/23			,282323SS+14 days,33									
29 329 5.17.8.3.3.:	Pipework pressure tests	30 days Tue		Wed 24/05/23	Tue 25/04/23			323SS+14 days,33									
30 330 5.17.8.3.3.:	Installation of instrumentations, EQT035-1	90 days Thu	ı 25/05/23	Tue 22/08/23	Thu 25/05/23	Tue 22/08/23	137 days 328,329,	,52	ME - A x 4~								
31 3315.17.8.3.3.:	Installation of Platforms, Covers etc, EQT050	180 days Mo	on 26/12/22	Fri 23/06/23	Mon 26/12/22	Fri 23/06/23	197 days		ME - D x 2^								
32 332 5.17.8.3.3.:	Site Acceptance Tests - mechanical aspects including alignment an	120 days Tue	25/04/23	Tue 22/08/23	Tue 25/04/23	Tue 22/08/23	137 days 319		ME - D x 2^						<u> </u>		
3 333 5.17.8.3.4	Electrical Installations for Inlet Works No. 1	300 days Mo	on 09/01/23	Sat 04/11/23	Mon 09/01/23	Sat 04/11/23	58 days 318SS+1	4 di 345							<b>+</b>		
4 334 5.17.8.3.4.:	Installation of LV Switchboards, IW	60 days Mo	on 09/01/23	Thu 09/03/23	Mon 09/01/23	Thu 09/03/23	30 days 289	339	LV - A x 4~6								
335 5.17.8.3.4.	Modification of HV Switchboards, MFB No. 1 (Rev. 8)	30 days Mo		Tue 07/02/23	Mon 09/01/23	Tue 07/02/23	150 days	340	LV - A x 4~6								
336 5.17.8.3.4.	Installation of Transformer, IW, EQT032	60 days Mo		Thu 09/03/23	Mon 09/01/23			339	EE - A x 4~6								
7 337 5.17.8.3.4.4	Installation of PLC Panels, IW	45 days Mo		Wed 22/02/23	Mon 09/01/23			339	EE - B x 4~6						Territoria, and the second		
8 338 5.17.8.3.4.!	Installation of cable trays and cable containments	90 days Mo		Sat 08/04/23	Mon 09/01/23			339	EE - C x 4~6						<b>—</b>		
9 339 5.17.8.3.4.0	Cables laying and terminations	90 days Sun		Fri 07/07/23	Sun 09/04/23			,337340,343,341	EE - C x 4~6							æ 07/07	
340 5.17.8.3.4.	Energisation of LV Switchboards, IW	0 days Fri (		Fri 07/07/23	Fri 07/07/23		178 days 339,306	rr+:345	LV - A x 4~6			2					
341 5.17.8.3.4.	Site Acceptance Tests - Electrical aspects including voltage and cur			Sat 04/11/23	Sat 08/07/23				LV - A x 4~6								
2 <b>342 5.17.8.3.5</b> 3 343 5.17.8.3.5.:	SCADA Systems, Inlet Works  Configuration of PLC System, IW	105 days Sat 45 days Sat		Fri 20/10/23 Mon 21/08/23	Sat 08/07/23 Sat 08/07/23	Mon 21/08/	78 days 0 days 339	344	PLC - A x 1								
343 5.17.8.3.5	Site Acceptance Test for PLC System at Inlet Works No. 1	60 days Tue		Fri 20/10/23	Tue 22/08/23		51 days 343	345,1270	I LC-AXI								
344 5.17.8.3.5.	Site Acceptance Test for F&S System at met works No. 1  Site Acceptance Test for F&M Equip & Instrumentations calibration,	15 days Tue		Tue 16/01/24	Tue 02/01/24											Tinh.	
346 5.17.8.3.7	System Commissioning for E&M Equip at Inlet Works No. 1	15 edays Tue		Wed 31/01/24	Tue 16/01/24			347									
347 5.17.8.3.8	Risk Allowances for completion of Processing Plant at Inlet Works No	7 edays We		Wed 07/02/24			0.63 edays 346,355										
348 5.17.8.3.9	Building Services Installations for Inlet Works No. 1	300 days Sun		Fri 19/01/24	Sun 26/03/23										-		
349 5.17.8.3.9.:	Mechanical Ventilation and Air Conditioning System, IW	150 days Sun		Tue 22/08/23	Sun 26/03/23			355	MVAC - B x								
350 5.17.8.3.9.:	Lighting and Power Distribution System, IW	180 days Sun		Thu 21/09/23	Sun 26/03/23			355	BS - A x 4~6						-		
1 351 5.17.8.3.9.	Plumbing Installation, IW	120 days Sun	n 26/03/23	Sun 23/07/23	Sun 26/03/23	Sun 23/07/23	60 days 1237	1239,355	Pb - A x 4~6								
		Dog										l	LLU				
	k Milestone ♦ Project Sur estone, Tentative ® Summary Manual Su		ate Critical	Critical S Progress	plit	Manual F Slack (Flo		Milestone (Actual) Slack	*								
ct: DE/2018/04 Thu 01/07/21	,			,													
								Page 6 of								DE_2018_04 Revised PG-	

Drainage St. The Covernment of the	ervices Department Integrating Spanic Administration States				Shek Wu H	Hui Effluent Poli			for DE/2018/04 I E&M Works fo	4 As for Sewage Treatment Facilities
ID WBS	Task Name	Duration between Task Start and Finish	Finish	Early Start	Early Finish	Free Slack Pre	redecessors Succ	essors	Resource Names	2020   2021   2022   2023   2024   2021   2022   2023   2024   2023   2024   2025
52 3525.17.	8.3.9. CCTV Installation (5 indoor +5 outdoor Cameras), IW	90 days Mon 24/04/23	Sat 22/07/23	Mon 24/04/23	Sat 22/07/23	51 days 30	05SS+150 (355)	,1269	BS - B x 4~€	N
3 353 5.17.	8.3.9.! Fire Services Installation, IW	120 days Mon 24/04/23	Mon 21/08/23	Mon 24/04/23	Mon 21/08/	. 31 days 30	05SS+150 c119	0,1202,1203,355	FS - A x 4~6	
354 5.17.	8.3.9.0 Earthing and Lightning Protection System, IW	60 days Wed 24/05/23	Sat 22/07/23	Wed 24/05/23	Sat 22/07/23	61 days 30	05SS+180 c355		BS - C x 2~4	
5 355 5.17.	B.3.9. Testing and Commissioning of Building Services Installations,	W 120 days Fri 22/09/23	Fri 19/01/24	Fri 22/09/23	Fri 19/01/24	12 days 34	49,350,351347		BS - C x 2~4	<sup>2</sup>
56 <b>356 5.18</b>	Primary Sedimentation Tanks No. 1 ~ 4, Portion B-3 (PS 6B2.2)	1371 days Wed 01/07/20	Mon 01/04/24	Wed 01/07/20	Mon 01/04	0 days				1   I <del></del>
357 5.18.	Planned Key Date Completion Date - KD1A, PST No. 1~4	0 days Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	0 days 39	91FF,392FF			(e₁30/10
358 5.18.	Planned Key Date Completion Date - KD1B, PST No. 1~4	1 day Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 39	93FF			
359 5.18.	Planned Sectional Completion Date - Section 1, PST No. 1~4	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/	0 days 39	96FF,395FF			<u>@</u> 12/07
360 5.18.	Planned Sectional Completion Date - Section 2, PST No. 1~4	0 days Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/	0 days 48	84FF			
361 5.18.			Mon 15/02/21		Mon 15/02	52 days				
52 362 5.18.5		90 days Wed 01/07/20	Mon 28/09/20	Wed 01/07/20						
363 5.18.5		30 days Wed 01/07/20	Thu 30/07/20	Wed 01/07/20		0 days	364			
364 5.18.5		30 days Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	0 days 36				
55 365 5.18.5 56 366 5.18.5		30 days Sun 30/08/20 135 days Wed 01/07/20	Mon 28/09/20 Thu 12/11/20	Sun 30/08/20 Wed 01/07/20	Mon 28/09/20 Thu 12/11/20	0 days 36	64 394			
57 367 5.18.5		45 days Wed 01/07/20	Fri 14/08/20	Wed 01/07/20	Fri 14/08/20	0 days	368			
58 368 5.18.5		60 days Sat 15/08/20	Tue 13/10/20	Sat 15/08/20	Tue 13/10/20	0 days 36				
59 369 5.18.5		30 days Wed 14/10/20	Thu 12/11/20	Wed 14/10/20	Thu 12/11/20	0 days 36				
70 370 5.18.5		90 days Tue 07/07/20	Sun 04/10/20	Tue 07/07/20	Sun 04/10/20	186 days				
71 371 5.18.5		30 days Tue 07/07/20	Wed 05/08/20	Tue 07/07/20	Wed 05/08/20		372			
72 372 5.18.5	.3.2 Invitation of quotations for purchasing package	30 days Thu 06/08/20	Fri 04/09/20	Thu 06/08/20	Fri 04/09/20	0 days 37	71 373			
3 373 5.18.5	.3.3 Acceptance of conforming quotation	30 days Sat 05/09/20	Sun 04/10/20	Sat 05/09/20	Sun 04/10/20	134 days 37	72 394			
4 374 5.18.5	.4 PST - scum collector pipes, C11, ref. EQT015	210 days Wed 01/07/20	Tue 26/01/21	Wed 01/07/20	Tue 26/01/21	72 days				
75 375 5.18.5	4.1 Submission for acceptance of purchasing package	120 days Wed 01/07/20	Wed 28/10/20	Wed 01/07/20	Wed 28/10/20	0 days	376			
6 376 5.18.5	4.2 Invitation of quotations for purchasing package	60 days Thu 29/10/20	Sun 27/12/20	Thu 29/10/20	Sun 27/12/20	0 days 37	75 377			
7 377 5.18.5	4.3 Acceptance of conforming quotation	30 days Mon 28/12/20	Tue 26/01/21	Mon 28/12/20	Tue 26/01/21	20 days 37	76 394			
8 378 5.18.5	.5 PST - piston type primary sludge pumps, C11, ref. EQT016	210 days Wed 01/07/20	Tue 26/01/21	Wed 01/07/20	Tue 26/01/21	0 days				
9 379 5.18.5		120 days Wed 01/07/20	Wed 28/10/20	Wed 01/07/20	Wed 28/10/20	0 days	380			
380 5.18.5		60 days Thu 29/10/20	Sun 27/12/20	Thu 29/10/20	Sun 27/12/20	0 days 375				
381 5.18.5		30 days Mon 28/12/20	Tue 26/01/21	Mon 28/12/20	Tue 26/01/21	0 days 380	80 394			
382 5.18.5		210 days Tue 14/07/20	Mon 08/02/21	Tue 14/07/20	Mon 08/02/21		204			
3 383 5.18.5 4 384 5.18.5		120 days Tue 14/07/20 60 days Wed 11/11/20	Tue 10/11/20 Sat 09/01/21	Tue 14/07/20 Wed 11/11/20	Tue 10/11/20 Sat 09/01/21	0 days 0 days 38	384 83 385			
385 5.18.5 385 5.18.5		30 days Sun 10/01/21	Mon 08/02/21	Sun 10/01/21	Mon 08/02/21	0 days 384				
6 386 5.18.5		210 days Tue 21/07/20	Mon 15/02/21	Tue 21/07/20	Mon 15/02/21					
7 387 5.18.5		120 days Tue 21/07/20	Tue 17/11/20	Tue 21/07/20	Tue 17/11/20	0 days	388			
8 388 5.18.5	.7.2 Invitation of quotations for purchasing package	60 days Wed 18/11/20	Sat 16/01/21	Wed 18/11/20	Sat 16/01/21	0 days 387	87 389			
9 389 5.18.5	7.3 Acceptance of conforming quotation	30 days Sun 17/01/21	Mon 15/02/21	Sun 17/01/21	Mon 15/02/21	0 days 388	88 394			
0 3905.18.6	Design Submissions for PST No. 1~ 4	462 days Sat 01/08/20	Sat 06/11/21	Sat 01/08/20	Sat 06/11/21	0 days				
1 3915.18.6	Electrical schematic drawings for PST No. 1~4	60 days Sat 01/08/20	Tue 29/09/20	Sat 01/08/20	Tue 29/09/20	0 days	357F	FF		
2 392 5.18.6	.2 CDS080-2 - Civil and dimensional requirements drawings for PST No. 1~4	p to 50 days Tue 01/09/20	Tue 20/10/20	Tue 01/09/20	Tue 20/10/20	0 days	357F	F		
3 393 5.18.6	CDS081-2 - Civil and dimensional requirements drawings for PST N	o. 1 · 150 days Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	0 days	358F	FF		
394 5.18.6	CDS003 - Detailed Design for Primary Sedimentation Tanks No. 1~	104 edays Mon 15/02/21	Sun 30/05/21	Mon 15/02/21	Sun 30/05/21	0.63 edays 36	65,369,373401,	404,407,410,413,4	416	
395 5.18.6			Sat 06/11/21		Sat 06/11/21					
6 396 5.18.6	-		Thu 10/06/21		Thu 10/06/21			359FF		
7 397 5.18.6	-	60 edays Mon 03/05/21	Fri 02/07/21		Fri 02/07/21			359FF		
8 3985.18.6		150 edays Tue 01/09/20	Fri 29/01/21		Fri 29/01/21	0 edays 11	13 428,	359FF		
9 399 5.18.		790 days Fri 29/01/21	Wed 29/03/23		Wed 29/03					
400 5.18.7	·	668 days Mon 31/05/21	Wed 29/03/23		Wed 29/03		04 405			
4015.18.7		300 days Mon 31/05/21	Sat 26/03/22		Sat 26/03/22					
402 5.18.7 403 5.18.7		45 days Mon 13/02/23 668 days Mon 31/05/21	Wed 29/03/23 Wed 29/03/23		Wed 29/03/ Wed 29/03		U1,45955-6453			
403 5.18.7		300 days Mon 31/05/21	Sat 26/03/22		Sat 26/03/22		94 405			
404 5.18.7		45 days Mon 13/02/23	Wed 29/03/23		Wed 29/03/		04,439SS-6454			
6 406 5.18.7		668 days Mon 31/05/21	Wed 29/03/23		. Wed 29/03		,			
7 407 5.18.7		300 days Mon 31/05/21	Sat 26/03/22		Sat 26/03/22		94 408			
8 4085.18.7	-	45 days Mon 13/02/23	Wed 29/03/23		Wed 29/03/		07,439SS-6455			
9 409 5.18.7		668 days Mon 31/05/21	Wed 29/03/23		. Wed 29/03		,			
0 4105.18.7	•	300 days Mon 31/05/21	Sat 26/03/22		Sat 26/03/22		94 411			
Bestwise		al Summary Critical	Critica	I Split	Manual P	Progress at)	M SI	lilestone (Actual) *		
ject: DE/2018/0		· Cincer			Siden (rito			_		
: Thu 01/07/2	1									

Drainage Services	E Department  special Administrative Region				Shek Wu	Hui Effluent F			e for DE/2018/04 e 1 E&M Works for	r Sewage Treatment Facilities										AEC
ID WBS	Task Name	Duration between Task Start and Finish	Finish	Early Start		Free Slack			Resource Names	2020	U-162 2222	2021		Helf 2 2024	2022	U-1/2 2555	2023 Half 1,	2022	Half 2, 2023	2024 Half 1, 2024
411 5.18.7.4.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/	203 days	410,439SS-	6456	ivames	N J M M	Half 2, 2020 J S	N J M	Ц_М_	Half 2, 2021 J S	N J M	Half 2, 2022	S N J	2023 M M H		
4125.18.7.5	Piston Type Primary Sludge Pumps, EQT016	668 days Mon 31/05/21	Wed 29/03/23		Wed 29/03			0430									ľ			
413 5.18.7.5.1	Manufacturing and Factory Acceptance Test of Plant	300 days Mon 31/05/21	Sat 26/03/22		Sat 26/03/22			414												
414 5.18.7.5.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/	. 106 days	413,43955-	6457									-			
415 5.18.7.6	Drain Pumps, EQT007	668 days Mon 31/05/21	Wed 29/03/23	Mon 31/05/21	Wed 29/03	163 days							-			***************************************	-			
416 5.18.7.6.1	Manufacturing and Factory Acceptance Test of Plant	300 days Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	323 days	394	417					T.							
417 5.18.7.6.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/	. 136 days	416,43955-	6458												
418 5.18.7.7	Air Blower, EQT018	668 days Mon 31/05/21	Wed 29/03/23	Mon 31/05/21	Wed 29/03	193 days	•						-							
419 5.18.7.7.1	Manufacturing and Factory Acceptance Test of Plant	300 days Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	323 days	394	420							-					
420 5.18.7.7.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/	. 166 days	419,43955-6	6459									•			
421 5.18.7.8	Stoplogs and Penstocks, EQT013	668 days Mon 31/05/21	Wed 29/03/23	Mon 31/05/21	Wed 29/03	43 days							-							
422 5.18.7.8.1	Manufacturing and Factory Acceptance Test of Plant	240 days Mon 31/05/21	Tue 25/01/22		Tue 25/01/22			423							-					
423 5.18.7.8.2	Shipping and Delivery of Plant to site	45 days Mon 13/02/23	Wed 29/03/23		Wed 29/03/		439SS-60 ed	d451									1			
424 5.18.7.9	Pipework, Valves and Electric Actuators, EQT036, EQT042 (Rev. 11)	518 days Thu 28/10/21	Wed 29/03/23		Wed 29/03															
425 5.18.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days Thu 28/10/21	Fri 24/06/22	Thu 28/10/21		233 days		426												
426 5.18.7.9.2 427 5.18.7.10	Shipping and Delivery of Plant to site	45 days Mon 13/02/23 790 days Fri 29/01/21	Wed 29/03/23 Wed 29/03/23	Mon 13/02/23 Fri 29/01/21	Wed 29/03/ Wed 29/03		425,439SS-6	U+32												
427 5.18.7.10 428 5.18.7.10.1	Lifting Appliances  Manufacturing and Factory Acceptance Test of Plant	210 days Fri 29/01/21	Wed 29/03/23 Thu 26/08/21		Thu 26/08/21			429												
428 5.18.7.10.1		45 days Mon 13/02/23	Wed 29/03/23		Wed 29/03/		428,439SS-6										4			
430 5.18.7.11	LV Switchboards	635 days Sat 03/07/21	Wed 29/03/23		Wed 29/03									-						
431 5.18.7.11.1	PST - Manufacturing of Plant	300 days Sat 03/07/21	Thu 28/04/22		Thu 28/04/22			432						+		7				
432 5.18.7.11.2	PST - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days Fri 29/04/22	Wed 27/07/22		Wed 27/07/		431	433								+				
433 5.18.7.11.3	PST - Shipping and Delivery of Plant to site	45 days Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/	. 16 days	432,439SS-6	6464									-			
434 5.18.7.12	PLC System	509 days Sat 06/11/21	Wed 29/03/23	Sat 06/11/21	Wed 29/03	53 days														
435 5.18.7.12.1	Manufacturing of Plant, PLC for PST	300 days Sat 06/11/21	Thu 01/09/22	Sat 06/11/21	Thu 01/09/22	0 days	395	436												
436 5.18.7.12.2	Factory Acceptance Test of Plant, PLC for PST (To be witnessed by Pl	60 days Fri 02/09/22	Mon 31/10/22	Fri 02/09/22	Mon 31/10/	. 104 days	435	437								*				
437 5.18.7.12.3	Shipping and Delivery of Plant to site	45 days Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/	. 16 days	436,43955-6	6465									*			
438 5.18.8	Site Installation Work	298 days Fri 14/04/23	Mon 05/02/24	Fri 14/04/23	Mon 05/02	0 days														
439 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		Fri 14/04/23	0 days		442,477FS+90 days,4							,			14/04		
440 5.18.8.2	Commencement of E&M Installation at PST No. 1~4	297 days Sat 15/04/23	Mon 05/02/24		Mon 05/02				403											
441 5.18.8.2.1	Provision of Temporary Water Supply, Electricity Supply, Lighting Wo		Sun 14/05/23		Sun 14/05/23															
442 5.18.8.2.2	Installation of Lifting Appliances at PST No. 1"4	127 days Sat 15/04/23	Sat 19/08/23		Sat 19/08/23			444,445,449	LA - A x 4~6											
443 5.18.8.2.2.: 444 5.18.8.2.2.:	Basement EOT Crane LA-02-01 SWL 10t  Coping Level EOT Crane LA-02-02 SWL 5t	30 days Sat 15/04/23 30 days Mon 15/05/23	Sun 14/05/23 Tue 13/06/23		Sun 14/05/23 Tue 13/06/23			449	LA - A x 4~6											
445 5.18.8.2.2.		30 days Mon 15/05/23	Tue 13/06/23		Tue 13/06/23			446.447.449	LA - B x 4~6											
446 5.18.8.2.2.4		30 days Wed 14/06/23	Thu 13/07/23		Thu 13/07/23			449	LA - A x 4~6									-		
447 5.18.8.2.2.!		30 days Wed 14/06/23	Thu 13/07/23		Thu 13/07/23		445	448,449	LA - B x 4~6									±		
448 5.18.8.2.2.0		30 days Fri 14/07/23	Sat 12/08/23	Fri 14/07/23	Sat 12/08/23	0 days	447	449	LA - A x 4~6											
449 5.18.8.2.2.	T&C, Loading Test for Lifting Appliances at PST No. 1~4	7 days Sun 13/08/23	Sat 19/08/23	Sun 13/08/23	Sat 19/08/23	0 days	443,444,44	5453	LA - A x 4~6										<b>T</b>	
450 5.18.8.2.3	Mechanical Installations at PST No. 1~4	240 days Sat 15/04/23	Sun 10/12/23	Sat 15/04/23	Sun 10/12/23	20 days		474										4		7
451 5.18.8.2.3.	Installation of penstocks and stoplogs (Penstock 18nos, Stoplogs	1 90 days Sat 15/04/23	Thu 13/07/23	Sat 15/04/23	Thu 13/07/23	0 days	423	457,462	ME - E x 4~									T		
452 5.18.8.2.3.	Installation of pipework and valves, EQT036	240 days Sat 15/04/23	Sun 10/12/23	Sat 15/04/23	Sun 10/12/23	27 days	426		ME - B x 4~									1		$H \mid \cdot \mid$
453 5.18.8.2.3.	Installation of lamella plate settlers (x4), EQT014	60 days Sun 20/08/23	Wed 18/10/23	Sun 20/08/23	Wed 18/10/	. 0 days	454,449,40	2455,456	ME - A x 4~											
454 5.18.8.2.3.4	Installation of reciprocating type bottom scrapers (x4), EQT014	30 days Sat 15/04/23	Sun 14/05/23		Sun 14/05/23			453	ME - A x 4^											
455 5.18.8.2.3.!		30 days Thu 19/10/23	Fri 17/11/23	Thu 19/10/23			453,408		ME - A x 4~											
456 5.18.8.2.3.0		30 days Thu 19/10/23	Fri 17/11/23	Thu 19/10/23			453,411		ME - B x 4~										_	
457 5.18.8.2.3.		30 days Fri 14/07/23	Sat 12/08/23		Sat 12/08/23		451,414		ME - C x 4~											
458 5.18.8.2.3.		30 days Sun 13/08/23	Mon 11/09/23	Sun 13/08/23			457,417		ME - C x 4~											
459 5.18.8.2.3.9		30 days Tue 12/09/23 60 days Thu 12/10/23	Wed 11/10/23 Sun 10/12/23		Wed 11/10/ Sun 10/12/23		458,420	700	ME - C x 4~											
460 5.18.8.2.3. 461 5.18.8.2.3.		60 days Thu 12/10/23	Sun 10/12/23 Sun 19/11/23		Sun 10/12/23 Sun 19/11/23				ME - F x 4~											
462 5.18.8.2.3.			Sun 10/12/23		Sun 10/12/23				ME - D x 2^										+	4
463 5.18.8.2.4	Electrical Installations for PST No. 1~4	260 days Sat 15/04/23	Sat 30/12/23		Sat 30/12/23			474										<u></u>		+
464 5.18.8.2.4.	Installation of LV Switchboards, PST	60 days Sat 15/04/23	Tue 13/06/23		Tue 13/06/23			467	LV - A x 4~6									_		
465 5.18.8.2.4.		60 days Sat 15/04/23	Tue 13/06/23		Tue 13/06/23			467										+		
466 5.18.8.2.4.		90 days Sat 15/04/23	Thu 13/07/23	Sat 15/04/23	Thu 13/07/23	0 days		467												
467 5.18.8.2.4.		90 days Fri 14/07/23	Wed 11/10/23	Fri 14/07/23	Wed 11/10/	. 0 days	464,465,46	€469FS-30 days,472,4	170											
468 5.18.8.2.4.	Tentative Civil Handover Date, LV cables draw pits from IW to PSI	1 day Thu 20/07/23	Thu 20/07/23	Thu 20/07/23	Thu 20/07/23	24 days		469FF+30 days											<u>20/07</u>	
469 5.18.8.2.4.	Energisation of LV Switchboards, PST	1 day Tue 12/09/23	Tue 12/09/23	Tue 12/09/23	Tue 12/09/23	109 days	467FS-30 da	a 474	LV - A x 4~€										12/09	+
stwise ct: DE/2018/04 Thu 01/07/21	Task Milestone ♦ Project Su Milestone, Tentative ⊕ Summary Manual S		Critical Progres	Splitss	Manual Slack (Fl			Milestone (Actual)	*											

Drainage Services Department The Community of the Ising Easy Special Administrative Region			Shek Wu			e for DE/2018/04 e 1 E&M Works for	ewage Treatment Facilities				AEC
ID WBS Task Name	Duration between Task Start and Finish	Finish	Early Start Early Finish	Free Slack Predecess		Resource Names	2020   2021   Half 1, 2020   Half 2, 2020   Half 1, 2021	Half 2, 2021	2022 Half 1, 2022 Half 2, 2022	2023 Half 1, 2023 Half 2, 2023	2024 Half 1, 2024
470 5.18.8.2.4. Site Acceptance Tests - Electrical aspects including voltage and cur	80 daysThu 12/10/23	Sat 30/12/23	Thu 12/10/23 Sat 30/12/23	2 days 467	345	LV - A x 4~6		M J S		N J M M J S	N
471 5.18.8.2.5 SCADA Systems, PST No. 1~4	60 days Thu 12/10/23	Sun 10/12/23	Thu 12/10/23 Sun 10/12/2								
472 5.18.8.2.5.: Configuration of PLC System	45 days Thu 12/10/23	Sat 25/11/23	Thu 12/10/23 Sat 25/11/23		473	PLC - B x 1				1	
473 5.18.8.2.5.: Site Acceptance Test for PLC System at PST No. 1~4	15 days Sun 26/11/23	Sun 10/12/23	Sun 26/11/23 Sun 10/12/2		475FF,1270						<u> </u>
474 5.18.8.2.6 Site Acceptance Test for E&M Equip and Instrumentations calibration	15 edays Sat 30/12/23	Sun 14/01/24	Sat 30/12/23 Sun 14/01/24	0.63 edays 450,463,	,465475						1
475 5.18.8.2.7 System Commissioning for E&M Equip at PST No, 1~4	15 days Mon 15/01/24	Mon 29/01/24	Mon 15/01/24 Mon 29/01/.	. 0 days 474,473	FF 476						1
476 5.18.8.2.8 Risk Allowances for Completion of Processing Plant at PST No. 1~4	7 edays Mon 29/01/24	Mon 05/02/24	Mon 29/01/24 Mon 05/02/.	2.63 edays 475	1266				•		i,
477 5.18.8.2.9 Building Services Installations for PST No. 1~4	150 days Fri 14/07/23	Sun 10/12/23	Fri 14/07/23 Sun 10/12/2	2 days 439FS+9	00 da					+	
478.5.18.8.2.9.: Mechanical Ventilation and Air Conditioning System, PST	90 days Fri 14/07/23	Wed 11/10/23	Fri 14/07/23 Wed 11/10/.	0 days	484	MVAC - B x					
479 5.18.8.2.9.: Lighting and Power Distribution System, PST	90 days Fri 14/07/23	Wed 11/10/23	Fri 14/07/23 Wed 11/10/.	0 days	484	BS - A x 4~€					
480 5.18.8.2.9.: Plumbing Installation, PST	80 days Fri 14/07/23	Sun 01/10/23	Fri 14/07/23 Sun 01/10/2	0 days 1237	1239,484	Pb - B x 4~6					
481 5.18.8.2.9. CCTV Installation (9 indoor + 2 outdoor Cameras), PST	60 days Fri 14/07/23	Mon 11/09/23	Fri 14/07/23 Mon 11/09/.	. 0 days 439FS+6	i0 d:484,1269	BS - B x 4~€				<u> </u>	
482 5.18.8.2.9.! Fire Services Installation, PST	85 days Fri 14/07/23	Fri 06/10/23	Fri 14/07/23 Fri 06/10/23	0 days	1190,1202,1203,484	4 FS - A x 4~6					
483 5.18.8.2.9.1 Earthing and Lightning Protection System, PST	90 days Fri 14/07/23	Wed 11/10/23	Fri 14/07/23 Wed 11/10/.	. 0 days	484	BS - C x 2~4					
484 5.18.8.2.9. Testing and Commissioning of Building Services Installations, PST	60 days Thu 12/10/23	Sun 10/12/23	Thu 12/10/23 Sun 10/12/23	113 days 478,479,	,48C360FF	BS - C x 2~4					
485 5.19 Bioreactors No. 2A & 2B, Portion B-4 (PS 6B2.4)	1326 days Sat 15/08/20	Mon 01/04/24	Sat 15/08/20 Mon 01/04	0 days				+			
486 5.19.1 Planned Key Date Completion Date - KD1A, BR 2A & 2B	0 days Fri 30/10/20	Fri 30/10/20	Fri 30/10/20 Fri 30/10/20		21FF		@ <sub>3</sub> 30/10				
487 5.19.2 Planned Key Date Completion Date - KD1B, BR 2A & 2B	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21 Tue 01/06/2					@ 01/06			
488 5.19.3 Planned Sectional Completion Date - Section 1, BR 2A & 2B	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21 Mon 12/07/.	. 0 days 523FF,52	24Ff			@ 12/07			
489 5.19.4 Planned Sectional Completion Date - Section 2, BR 2A & 2B	0 days Mon 01/04/24	Mon 01/04/24	Mon 01/04/24 Mon 01/04/.		94Ff						•
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	Tue 01/09/20 Fri 12/03/21	72 days			<u> </u>				
4915.19.5.1 BR - pre-treatment fine screens (Marking Scheme Approach), EQT019	150 days Tue 01/09/20	Thu 28/01/21	Tue 01/09/20 Thu 28/01/21								
492 5.19.5.1.1 Submission for acceptance of purchasing package	60 days Tue 01/09/20	Fri 30/10/20	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	Sat 31/10/20 Tue 29/12/20	0 days 492	494		<u> </u>				
494,5.19.5.1.3 Acceptance of conforming quotation (Completed)	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20 Thu 28/01/21	0 days 493	523		<u>+</u>				
495 5.19.5.2 BR - air diffusion system (Marking Scheme Approach), EQT017	180 days Tue 01/09/20	Sat 27/02/21	Tue 01/09/20 Sat 27/02/21	0 days							
496 5.19.5.2.1 Submission for acceptance of purchasing package including proposed	90 days Tue 01/09/20	Sun 29/11/20	Tue 01/09/20 Sun 29/11/20	0 days	497						
marking scheme											
497 5.19.5.2.2 Invitation of quotations for purchasing package	60 days Mon 30/11/20	Thu 28/01/21	Mon 30/11/20 Thu 28/01/21	0 days 496	498		<u> </u>				
498 5.19.5.2.3 Acceptance of conforming quotation	30 days Fri 29/01/21	Sat 27/02/21	Fri 29/01/21 Sat 27/02/21	0 days 497	523		<u> </u>				
499 5.19.5.3 BR - submersible mixers, C11, EQT020	150 days Tue 01/09/20	Thu 28/01/21	Tue 01/09/20 Thu 28/01/21	0 days							
500 5.19.5.3.1 Submission for acceptance of purchasing package	60 days Tue 01/09/20	Fri 30/10/20	Tue 01/09/20 Fri 30/10/20	0 days	501						
501 5.19.5.3.2 Invitation of quotations for purchasing package	60 days Sat 31/10/20	Tue 29/12/20	Sat 31/10/20 Tue 29/12/20	0 days 500	502						
502 5.19.5.3.3 Acceptance of conforming quotation (Completed)	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20 Thu 28/01/21	0 days 501	523		<u> </u>				
503 5.19.5.4 BR - mixed liquor return pumps, C11, EQT008	150 days Mon 14/09/20	Wed 10/02/21	Mon 14/09/20 Wed 10/02/21	0 days							
504 5.19.5.4.1 Submission for acceptance of purchasing package	60 days Mon 14/09/20	Thu 12/11/20	Mon 14/09/20 Thu 12/11/20	0 days	505						
505 5.19.5.4.2 Invitation of quotations for purchasing package	60 days Fri 13/11/20	Mon 11/01/21	Fri 13/11/20 Mon 11/01/21		506						
506 5.19.5.4.3 Acceptance of conforming quotation (Completed)	30 days Tue 12/01/21	Wed 10/02/21	Tue 12/01/21 Wed 10/02/21	0 days 505	523		<u> </u>				
507 5.19.5.5 BR - scum removal systems, C11, EQT021, EQT022	150 days Mon 14/09/20	Wed 10/02/21	Mon 14/09/20 Wed 10/02/21	102 days				+			
508 5.19.5.5.1 Submission for acceptance of purchasing package	60 days Mon 14/09/20	Thu 12/11/20	Mon 14/09/20 Thu 12/11/20	0 days	509						
509 5.19.5.5.2 Invitation of quotations for purchasing package	60 days Fri 13/11/20	Mon 11/01/21	Fri 13/11/20 Mon 11/01/21		510						
510 5.19.5.5.3 Acceptance of conforming quotation	30 days Tue 12/01/21	Wed 10/02/21	Tue 12/01/21 Wed 10/02/21		523						
511 5.19.5.6 BR - aeration blowers (Marking Scheme Approach), EQT039	180 days Mon 14/09/20	Fri 12/03/21	Mon 14/09/20 Fri 12/03/21	72 days				<del>  -</del>			
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	Mon 14/09/20 Sat 12/12/20	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	Sun 13/12/20 Wed 10/02/21	0 days 512	514		<u> </u>				
514 5.19.5.6.3 Acceptance of conforming quotation	30 daysThu 11/02/21	Fri 12/03/21	Thu 11/02/21 Fri 12/03/21	0 days 513	523						
515 5.19.5.7 BR - instrumentations, C11, EQT035-2	150 days Thu 01/10/20	Sat 27/02/21	Thu 01/10/20 Sat 27/02/21	85 days							
516 5.19.5.7.1 Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20 Sun 29/11/20	0 days	517						
517 5.19.5.7.2 Invitation of quotations for purchasing package	60 days Mon 30/11/20	Thu 28/01/21	Mon 30/11/20 Thu 28/01/21	0 days 516	518						
518 5.19.5.7.3 Acceptance of conforming quotation	30 days Fri 29/01/21	Sat 27/02/21	Fri 29/01/21 Sat 27/02/21	13 days 517	523						
519 5.19.6 Design Submissions for BR 2A & 2B	448 days Sat 15/08/20	Sat 06/11/21	Sat 15/08/20 Sat 06/11/21						•		
520 5.19.6.1 Electrical schematic drawings for BR No. 2A & 2B	60 days Sat 15/08/20	Tue 13/10/20	Sat 15/08/20 Tue 13/10/20		486FF						
521 5.19.6.2 CDS080-3 - Civil and dimensional requirements drawings for BR 2A&2B up to +	55 days Tue 01/09/20	Sun 25/10/20	Tue 01/09/20 Sun 25/10/20	O days	486FF						
522 5.19.6.3 CDS081-3 - Civil and dimensional requirements drawings for BR 2A & 2	281 days Fri 28/08/20	Fri 04/06/21	Fri 28/08/20 Fri 04/06/21		487FF						
523 5.19.6.4 CDS004 - Detailed Design for Bioreactor 2A and 2B	120 edays Fri 12/03/21	Sat 10/07/21	Fri 12/03/21 Sat 10/07/21			2,545					
524.5.19.6.5 CDS023 - Detailed Design for Electrical Installations for BR No. 2A & 2B	30 edays Thu 07/10/21	Sat 06/11/21	Thu 07/10/21 Sat 06/11/21		),18:73,488FF,697			<u> </u>	•		
525 5.19.6.6 CDS034-3 - Detailed Design for Electrical Installations BS at BR No. 2A 8	100 edays Fri 12/03/21	Sun 20/06/21	Fri 12/03/21 Sun 20/06/22		589,488FF,590						
526 5.19.6.7 CDS025-3 - Detailed Design for LV Switchboards for BR 2A and 2B	60 edays Mon 03/05/21	Fri 02/07/21	Mon 03/05/21 Fri 02/07/21		683,488FF						
527 5.19.6.8 CDS050-3 - Detailed Design for Lifting Appliances - BR 2A & 2B	120 edays Thu 01/10/20	Fri 29/01/21	Thu 01/10/20 Fri 29/01/21		557,488FF		<u> </u>				
Task Milestone ♦ Project Sumr  Milestone, Tentative  Summary Manual Sum		Critical :	Split Manual s Slack (F		Milestone (Actual)	*					
tt: DE/2018/04			Sidek (I								
Thu 01/07/21											

Drainage Services The Construent of the Hung Kong Se	S Department Igencial Administration Region				Shek Wu Hu			me for DE/2018/04 ige 1 E&M Works for	Sewage Treatment Facilitie	es								A
ID WBS	Task Name	Duration between Task Start and Finish	Finish	Early Start E	Early Finish F	ree Slack Predecess	ors Successors	Resource Names	2020 Half 1 2020	Half 2, 2020	2021 Half 1, 202	1	Half 2, 2021	2022 Half 1, 2022 Half 2,	2023 2022 Half 1, 2	2023	If 2, 2023	2024 Half 1, 2024
528 5.19.7	Manufacturing and Delivery of Plant & Materials	740 days Fri 29/01/21	Tue 07/02/23	Fri 29/01/21 1	Tue 07/02/23	258 days		Ivanies	N J M		N J	1 м.   м.	J S	Hair 1, 2022 Hair 2,	S N J	M   M	J S 1	
529 5.19.7.1	Pre-treatment Fine Screens, EQT019	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21											-			
530 5.19.7.1.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21			531						-					
531 5.19.7.1.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22 1		16 days 530,560S												
532 5.19.7.2	Air Diffusion System, EQT017	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21 1									-					
533 5.19.7.2.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21		292 days 523	534						-					
534 5.19.7.2.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22 1														
535 5.19.7.3	Submersible Mixer, EQT020	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21 1			.5-0574											
536 5.19.7.3.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21 N			537						+					
537 5.19.7.3.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22 1		44 days 536,560S												
538 5.19.7.4	Mixed Liquor Return Pumps, EQT008	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21 1			.5-0373											
539 5.19.7.4.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21 N		292 days 523	540						-					
540 5.19.7.4.2		45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22 T		16 days 539,560S												
541 5.19.7.5	Shipping and Delivery of Plant to site		Tue 07/02/23				13-0370											
	Sum Removal System, EQT021, EQT022	577 days Sun 11/07/21		Sun 11/07/21 T			543						-					
542 5.19.7.5.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21 N														
543 5.19.7.5.2 544 5.19.7.6	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22 T		46 days 542,560S	05-05//											
	Aeration Blowers, EQT039	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21 T			FAC						I L					
545 5.19.7.6.1	Manufacturing and Factory Acceptance Test of Plant (to be witnesse	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21 N		292 days 523	546								Ţ			
546 5.19.7.6.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23			173 days 545,560S	5-05/8											
547 5.19.7.7	Instrumentations, EQT035-2	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21 T														
548 5.19.7.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21 M		292 days 523	549											
549 5.19.7.7.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22 T			5-6579											
550 5.19.7.8	Stoplogs and Penstocks, EQT013	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21 T											-			
551 5.19.7.8.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21 M			552											
552 5.19.7.8.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22 T		16 days 551,560S	S-6571								_			
553 5.19.7.9	Pipework, Valves and Electric Actuators, EQT036, EQT042 (Rev. 11)	468 days Thu 28/10/21	Tue 07/02/23	Thu 28/10/21 T	Tue 07/02/23	93 days 56,60									-			
554 5.19.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days Thu 28/10/21	Fri 24/06/22	Thu 28/10/21 F	Fri 24/06/22	183 days 523	555											
555 5.19.7.9.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22 T		16 days 554,560S	S-6572								-			
556 5.19.7.10	Lifting Appliances	740 days Fri 29/01/21	Tue 07/02/23	Fri 29/01/21 T	Tue 07/02/23	101 days									-			
557 5.19.7.10.1	Manufacturing and Factory Acceptance Test of Plant	210 days Fri 29/01/21	Thu 26/08/21	Fri 29/01/21 T	Thu 26/08/21	485 days 527	558				-							
558 5.19.7.10.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22 T	Tue 07/02/23	16 days 557,560S	S-6564								-			
559 5.19.8	Site Installation Work	348 days Thu 23/02/23	Mon 05/02/24	Thu 23/02/23 N	Mon 05/02	0 days												
560 5.19.8.1	Tentative Civil Handover Date, Portion B-4, BR2A & 2B (Rev. 5)	1 day Thu 23/02/23	Thu 23/02/23	Thu 23/02/23 T		0 days	564,570,581,589FS	S+90 ec								23/02		
561 5.19.8.2	Tentative Civil Handover Date, LV cables draw pits from MFB2 to BR2	1 day Thu 01/06/23	Thu 01/06/23	Thu 01/06/23 T		30 days	584FF+30 days									€_01/0		
562 5.19.8.3	Commencement of E&M Installation at Bioreactor No. 2A & 2B	347 days Fri 24/02/23	Mon 05/02/24	Fri 24/02/23	Mon 05/02	0 days 560												
563 5.19.8.3.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, W	7 days Fri 24/02/23	Thu 02/03/23	Fri 24/02/23 T	Thu 02/03/23	0 days 560												
564 5.19.8.3.2	Installation of Lifting Appliances at BR 2A & 2B	67 days Fri 24/02/23	Mon 01/05/23	Fri 24/02/23	Mon 01/05	85 days 560,558												
565 5.19.8.3.2.:	Coping Level EOT Crane LA-03-01 SWL 5t	30 days Fri 24/02/23	Sat 25/03/23	Fri 24/02/23 S	Sat 25/03/23	0 days	567,568,569	LA - A x 4~6										
566 5.19.8.3.2.2	Coping Level EOT Crane LA-03-02 SWL 5t	30 days Fri 24/02/23	Sat 25/03/23	Fri 24/02/23 S	Sat 25/03/23	0 days	567,568,569	LA - B x 4~€										
567 5.19.8.3.2.	Coping Level EOT Crane LA-03-03 SWL 5t	30 days Sun 26/03/23	Mon 24/04/23	Sun 26/03/23 N	Mon 24/04/	0 days 565,566		LA - A x 4~€										
568 5.19.8.3.2.4	Coping Level Mobile A-frame LA-03-04 SWL 4t	7 days Sun 26/03/23	Sat 01/04/23	Sun 26/03/23 S	Sat 01/04/23	23 days 565,566		LA - B x 4~6										
569 5.19.8.3.2.!	T&C, Loading Test for Lifting Appliances at Bioreactor No. 2A & 2B	7 days Tue 25/04/23	Mon 01/05/23	Tue 25/04/23 N	Mon 01/05/	0 days 565,566,5	567574	LA - B x 4~6										
570 5.19.8.3.3	Mechanical Installations for E&M Equip at BR 2A & 2B	270 days Fri 24/02/23	Mon 20/11/23	Fri 24/02/23	Mon 20/11	10 days 560	586										-	
571 5.19.8.3.3.:	Installation of penstocks and stoplogs (Penstocks 8nos, Stoplogs 8	90 days Fri 24/02/23	Wed 24/05/23	Fri 24/02/23 V	Wed 24/05/	0 days 552	580	ME - E x 4~										
572 5.19.8.3.3.	Installation of pipework and valves, EQT036	150 days Fri 24/02/23	Sun 23/07/23	Fri 24/02/23 S	Sun 23/07/23	0 days 555	579	ME - C x 4~										
573 5.19.8.3.3.:	Installation of pre-treatment fine screens (x4)	28 days Fri 24/02/23	Thu 23/03/23	Fri 24/02/23 T	Thu 23/03/23	0 days 531	575	ME - A x 4^										
574 5.19.8.3.3.4	Installation of air diffusion system (x2), EQT017	90 days Tue 02/05/23	Sun 30/07/23	Tue 02/05/23	Sun 30/07/23	0 days 569,534	578	ME - D x 2^								*		
575 5.19.8.3.3.!	Installation of submersible mixers (x16), EQT020	90 days Fri 24/03/23	Wed 21/06/23	Fri 24/03/23 V	Wed 21/06/	162 days 573,537	586	ME - B x 4~										
576 5.19.8.3.3.0	Installation of mixed liquor return pumps (x6), EQT008	30 days Fri 24/02/23	Sat 25/03/23	Fri 24/02/23 S	Sat 25/03/23	0 days 540	577	ME - A x 4~										
577 5.19.8.3.3.	Installation of scum removal systems (x2), EQT022	45 days Sun 26/03/23	Tue 09/05/23	Sun 26/03/23 T	Tue 09/05/23	205 days 576,543	586	ME - B x 4~										
578 5.19.8.3.3.	Installation of aeration blowers (x4), EQT039	45 days Mon 31/07/23	Wed 13/09/23	Mon 31/07/23	Wed 13/09/	78 days 574,546	586	ME - D x 2^										
579 5.19.8.3.3.5	Installation of instrumentations, EQT035-2	60 days Mon 24/07/23	Thu 21/09/23	Mon 24/07/23 T	Thu 21/09/23	70 days 572,549	586	ME - D x 2^										
580 5.19.8.3.3.:	Site Acceptance Tests - mechanical aspects including alignment an	180 days Thu 25/05/23	Mon 20/11/23	Thu 25/05/23 N	Mon 20/11/	10 days 571	586	ME - D x 2^								-	_	
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	Fri 24/02/23 T	Thu 30/11/23	0 days 560	586									*	++++	
582 5.19.8.3.4.:	Installation of cable trays and cable containments	120 days Fri 24/02/23	Fri 23/06/23	Fri 24/02/23 F	Fri 23/06/23	0 days 560	583											
583 5.19.8.3.4.:	Cables laying and terminations	100 days Sat 24/06/23	Sun 01/10/23	Sat 24/06/23 S	Sun 01/10/23	0 days 582	585,756											
584 5.19.8.3.4.	Energisation of LV Switchboards, BR2	1 day Mon 31/07/23	Mon 31/07/23	Mon 31/07/23	Mon 31/07/	122 days 561FF+30	) d¿586	LV - A x 4~6									@ 31/07	
585 5.19.8.3.4.4	Site Acceptance Tests - Electrical aspects including voltage and cur	60 days Mon 02/10/23	Thu 30/11/23	Mon 02/10/23 T	Thu 30/11/23	32 days 583	345	LV - A x 4~6										
586 5.19.8.3.5	Site Acceptance Test for E&M Equip at BR 2A & 2B	30 edays Thu 30/11/23	Sat 30/12/23	Thu 30/11/23	Sat 30/12/23	0.63 edays 570,575,5	577587											
			-									1		<u> </u>				
	Task Milestone ♦ Project Su Milestone, Tentative ⊚ Summary Manual Su		Critical :		Manual Pro Slack (Float		Milestone (Actual)  Slack	*										
:: DE/2018/04	Manual Su	· Citical	riogres		Sinck (FIOR		_ 5.500											
01/07/21																		

rainage Services Department Government of the Hong Kong Special Administrative Region						ui Effluent Polishing Plan		E&M Works for S	or Sewage Treatment Facilities								
WBS Task Name	Duration betwee Start and Fi	een Task Start nish	Finish	Early Start	Early Finish	Free Slack Predecessors	Successors	Resource Names	2020 Half 1, 2020	Half 2, 2020	2021 Half 1, 2021	Half	2, 2021	2022 Half 1, 2022	Half 2, 2022	2023 Half 1, 2023	Half 2, 2023
87 5.19.8.3.6 System Commissioning for E&N		30 days Sun 31/12/23	Mon 29/01/24	Sun 31/12/23	Mon 29/01/	0 days 586,758	588		N 1 3 M M M		N J J M		J	N J J L M	M   J   T	s   N   J   M	
-		7 edays Mon 29/01/24	Mon 05/02/24				1266										
89 5.19.8.3.8 Building Services Installations f		195 days Thu 25/05/23	Tue 05/12/23	Thu 25/05/23													<b>4</b>
590 5.19.8.3.8.1 Lighting and Power Distributions		150 days Thu 25/05/23	Sat 21/10/23	Thu 25/05/23			595	BS - A x 4~6									+
591 5.19.8.3.8.: Plumbing Installation, BR2		120 days Thu 25/05/23	Thu 21/09/23	Thu 25/05/23			1239,595	Pb - A x 4~6									1
592 5.19.8.3.8. CCTV Installation (7 indoor +		60 days Sat 24/06/23	Tue 22/08/23	Sat 24/06/23				BS - B x 4~€									_
93 5.19.8.3.8. Fire Services Installation, BR2		120 days Thu 25/05/23	Thu 21/09/23	Thu 25/05/23			1190,1202,1203,595	FS - B x 4~6									
594 5.19.8.3.8. Lightning Protection System,	BR2	60 days Thu 25/05/23	Sun 23/07/23	Thu 25/05/23	Sun 23/07/23	253 days	489FF	BS - C x 2~4									-
595 5.19.8.3.8.1 Testing and Commissioning o	f Building Services Installations, BR2	45 days Sun 22/10/23	Tue 05/12/23	Sun 22/10/23	Tue 05/12/23	118 days 590,591,59	2489FF	BS - C x 2~4									
596 5.20 Membrane Facilities Building, Portion	B-5 (PS 6B.2.4) 1	320 days Fri 21/08/20	Mon 01/04/24	Fri 21/08/20	Mon 01/04	0 days				+++-							
597 5.20.1 Planned Key Date Completion Date -	KD1A, MFB No. 2	0 days Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	0 days 643FF,644F	FF			6	30/10						
598 5.20.2 Planned Key Date Completion Date -	KD1B, MFB No. 2	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 645FF						@ 01/06	5				
599 5.20.3 Planned Sectional Completion Date -	Section 1, MFB No. 2	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/	0 days 646FF,647F	F					@-1	12/07				
500 5.20.4 Planned Sectional Completion Date -		0 days Mon 01/04/24	Mon 01/04/24	Mon 01/04/24		0 days											
		224 days Tue 01/09/20	Mon 12/04/21	Tue 01/09/20		56 days											
		150 days Tue 01/09/20	Thu 28/01/21	Tue 01/09/20		0 days	504										
503 5.20.5.1.1 Submission for acceptance of purch marking scheme	asing package including proposed	60 days Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	0 days	604										
604 5.20.5.1.2 Invitation of quotations for purcha	sing package	60 days Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	0 days 603	605										
605 5.20.5.1.3 Acceptance of conforming quotation		30 days Wed 30/12/20	Thu 28/01/21		Thu 28/01/21		646				_						
		150 days Tue 01/09/20			Thu 28/01/21												
606 5.20.5.2 MFS - air scour blowers, C11, ref. EQT			Thu 28/01/21			0 days	608										
607 5.20.5.2.1 Submission for acceptance of purch		60 days Tue 01/09/20	Fri 30/10/20		Fri 30/10/20		608										
608 5.20.5.2.2 Invitation of quotations for purchas		60 days Sat 31/10/20	Tue 29/12/20		Tue 29/12/20		609			-							
609 5.20.5.2.3 Acceptance of conforming quotation	n	30 days Wed 30/12/20	Thu 28/01/21		Thu 28/01/21	0 days 608	648										
610 5.20.5.3 MFS - permeate pumps, C11, ref. EQT	024	180 days Tue 01/09/20	Sat 27/02/21	Tue 01/09/20	Sat 27/02/21	0 days											
611 5.20.5.3.1 Submission for acceptance of purch	asing package	90 days Tue 01/09/20	Sun 29/11/20	Tue 01/09/20	Sun 29/11/20	0 days	612										
612 5.20.5.3.2 Invitation of quotations for purchas	ing package	60 days Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days 611	613				<u>*</u>						
613 5.20.5.3.3 Acceptance of conforming quotation	n (Completed)	30 days Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	0 days 612	646				*						
614 5.20.5.4 MFS - compressed air system, C11, re	f. EQT029	120 days Tue 15/09/20	Tue 12/01/21	Tue 15/09/20	Tue 12/01/21	98 days				-							
615 5.20.5.4.1 Submission for acceptance of purch		60 days Tue 15/09/20	Fri 13/11/20	Tue 15/09/20	Fri 13/11/20	0 days	616										
616 5.20.5.4.2 Invitation of quotations for purchase		30 days Sat 14/11/20	Sun 13/12/20		Sun 13/12/20		617				_						
617 5.20.5.4.3 Acceptance of conforming quotation		30 days Mon 14/12/20	Tue 12/01/21		Tue 12/01/21		648										
517 5.20.5.4.3 Acceptance of conforming quotation 518 5.20.5.5 MFS - chemical storage tanks, C11, re		120 days Thu 01/10/20	Thu 28/01/21		Thu 28/01/21	82 days											
			Sun 29/11/20		Sun 29/11/20		620										
619 5.20.5.5.1 Submission for acceptance of purch		60 days Thu 01/10/20					621										
620 5.20.5.5.2 Invitation of quotations for purchas		30 days Mon 30/11/20	Tue 29/12/20	Mon 30/11/20													
621 5.20.5.5.3 Acceptance of conforming quotation		30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20		32 days 620	648										
622 5.20.5.6 MFS - chemical dosing pumps, C11, re	f. EQT026	120 days Thu 01/10/20	Thu 28/01/21		Thu 28/01/21	82 days						<b>†</b>					
623 5.20.5.6.1 Submission for acceptance of purch	asing package	60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days 2,30	624										
624 5.20.5.6.2 Invitation of quotations for purchas	ing package	30 days Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days 623	625										
625 5.20.5.6.3 Acceptance of conforming quotation	n	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	32 days 624	648				-						
626 5.20.5.7 MFS - return activated sludge pumps	(Marking Scheme Approach), ref. EQT0:	180 days Thu 01/10/20	Mon 29/03/21	Thu 01/10/20	Mon 29/03/21	0 days				-	7						
627 5.20.5.7.1 Submission for acceptance of purch	asing package	90 days Thu 01/10/20	Tue 29/12/20	Thu 01/10/20	Tue 29/12/20	0 days	628			-							
628 5.20.5.7.2 Invitation of quotations for purchase	ing package	60 days Wed 30/12/20	Sat 27/02/21	Wed 30/12/20	Sat 27/02/21	0 days 627	629				*						
629 5.20.5.7.3 Acceptance of conforming quotation	n (Completed)	30 days Sun 28/02/21	Mon 29/03/21	Sun 28/02/21	Mon 29/03/21	0 days 628	646				-						
630 5.20.5.8 MFS - membrane tank drain pumps,	C11, ref. EQT009	180 days Tue 15/09/20	Sat 13/03/21	Tue 15/09/20	Sat 13/03/21	0 days				-	-						
631 5.20.5.8.1 Submission for acceptance of purch		90 days Tue 15/09/20	Sun 13/12/20		Sun 13/12/20		632										
632 5.20.5.8.2 Invitation of quotations for purcha		60 days Mon 14/12/20	Thu 11/02/21	Mon 14/12/20			633										
		30 days Fri 12/02/21	Sat 13/03/21		Sat 13/03/21		646										
633 5.20.5.8.3 Acceptance of conforming quotation							- 70										
534 5.20.5.9 Plant Service Water System - boo		180 days Thu 15/10/20	Mon 12/04/21	Thu 15/10/20		56 days	626										
535 5.20.5.9.1 Submission for acceptance of pr	ırchasing package	90 days Thu 15/10/20	Tue 12/01/21	Thu 15/10/20			636										
536 5.20.5.9.2 Invitation of quotations for pure	hasing package	60 days Wed 13/01/21	Sat 13/03/21	Wed 13/01/21			637										
Acceptance of conforming quot	ation	30 days Sun 14/03/21	Mon 12/04/21	Sun 14/03/21	Mon 12/04/	0 days 636	646				-						
538 5.20.5.10 Plant Service Water System - hydronic	o-pneumatic pressure tanks, C11, re	120 days Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	130 days				-		-					
539 5.20.5.10.1 Submission for acceptance of pu	urchasing package	60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	640			-							
540 5.20.5.10.2 Invitation of quotations for pure	hasing package	30 days Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days 639	641				-						
541 5.20.5.10.3 Acceptance of conforming quot		30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20			646										
642 5.20.6 Design Submissions for MFB No. 2		442 days Fri 21/08/20	Sat 06/11/21	Fri 21/08/20		0 days				-							
543 5.20.6.1 Electrical schematic drawings for N		60 days Fri 21/08/20	Mon 19/10/20		Mon 19/10/		597FF										
	irements drawigns for MFB no. 2 up to +	30 days Tue 01/09/20	Wed 30/09/20		Wed 30/09/20		597FF										
644 5.20.6.2 CDS080-4 - Civil and dimensional requ	nements urawigns for INFB NO. 2 up to +	55 days 1de 01/05/20	vved 30/03/20	146 01/09/20	7764 30/09/20	- uays	-27.1										
		- December															
Task Mileston  Milestone, Tentative   Summar		Late Critical	Critical S Progress	piit	Manual P Slack (Flo		Milestone (Actual) ★ Slack										
DE/2018/04	, monda Julillary	- Citicui	rrogress		J. 00 1/10												
01/07/21																	

Drainage Service	os Department 1 federal deservación fegan			Proposed Work Programme fr Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	
ID WBS		ration between Task Start	Finish	Early Start Early Finish Free Slack Predecessors Successors	Resource 2020 2021 2022 2023 2024
		Start and Finish			Names Half 1, 2020 Half 2, 2020 Half 2, 2021 Half 1, 2022 Half 1, 2023 Half 2, 2023 Half 1, 2023 Half 1, 2023 Half 1, 2023 Half 1, 2023 Half 2, 2023 Half 3, 2023
645 5.20.6.3	CDS081-4 - Civil and dimensional requirements drawings for MFB No. 2	210 days Fri 28/08/20	Thu 25/03/21	Fri 28/08/20 Thu 25/03/21 68 days 598FF	
646 5.20.6.4	CDS005 - Detailed Design for Membrane Filtration System, Pumps and	80 edays Mon 12/04/21	Thu 01/07/21	Mon 12/04/21 Thu 01/07/21 0.63 edays 605,613,625655,659,662,665,674,6	,674,677
647 5.20.6.5	CDS024 - Detailed Design for Electrical Installations for MFB No. 2	30 edays Thu 07/10/21	Sat 06/11/21	Thu 07/10/21 Sat 06/11/21 0 edays 72,82,78,86 73,694,700,599FF	
648 5.20.6.6	CDS008 - Detailed Design for Membrane Filtration System, Air Blowers,	100 edays Mon 01/03/21	Wed 09/06/21	Mon 01/03/21 Wed 09/06/ 0.63 edays 609,617,621668,671,599FF	
649 5.20.6.7	CDS034-4 - Detailed Design for Electrical Installations BS at MFB No. 2	100 edays Fri 12/03/21	Sun 20/06/21	Fri 12/03/21 Sun 20/06/21 22.38 edays 133 763,599FF	
650 5.20.6.8	CDS025-4 - Detailed Design for LV Switchboards for Membrane Filtratic	60 edays Mon 03/05/21	Fri 02/07/21	Mon 03/05/21 Fri 02/07/21 0.63 edays 68 686,599FF	
651 5.20.6.9	CDS026-2 - Detailed Design for HV Switchboards for MFB No. 2	60 edays Sun 18/04/21	Thu 17/06/21	Sun 18/04/21 Thu 17/06/21 0.63 edays 64 599FF,690	
652 5.20.6.10	CDS050-4 - Detailed Design for Lifting Appliances - MFB No. 2	150 edays Thu 15/10/20	Sun 14/03/21	Thu 15/10/20 Sun 14/03/21 0 edays 113 680,599FF	
653 5.20.7		522 days Sun 14/03/21	Wed 17/08/22	Sun 14/03/21 Wed 17/08 301 days	
	Manufacturing and Delivery of Plant & Materials				
654 5.20.7.1	Hollow Fibre Membrane Modules, EQT023	385 days Fri 02/07/21	Thu 21/07/22	Fri 02/07/21 Thu 21/07/22 191 days	
655 5.20.7.1.1	-	300 days Fri 02/07/21	Wed 27/04/22	Fri 02/07/21 Wed 27/04/ 0 days 646 656	
656 5.20.7.1.2	MFS - Factory Acceptance Test of Plant (to be witnessed by PM)	40 days Thu 28/04/22	Mon 06/06/22	Thu 28/04/22 Mon 06/06/ 0 days 655 657	
657 5.20.7.1.3	MFS - Shipping and Delivery of Plant to site	45 days Tue 07/06/22	Thu 21/07/22	Tue 07/06/22 Thu 21/07/22 0 days 656 715	
658 5.20.7.2	Air Scour Blowers, EQT040	396 days Fri 02/07/21	Mon 01/08/22	Fri 02/07/21 Mon 01/08 208 days	
659 5.20.7.2.1	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 02/07/21	Sat 26/02/22	Fri 02/07/21 Sat 26/02/22 111 days 646 660	
660 5.20.7.2.2	Shipping and Delivery of Plant to site	45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22 Mon 01/08/ 0 days 659,727SS-6716	
661 5.20.7.3	Permeate Pump, EQT024	285 days Fri 02/07/21	Tue 12/04/22	Fri 02/07/21 Tue 12/04/22 409 days	
662 5.20.7.3.1		240 days Fri 02/07/21	Sat 26/02/22	Fri 02/07/21 Sat 26/02/22 0 days 646 663	
663 5.20.7.3.2		45 days Sun 27/02/22	Tue 12/04/22	Sun 27/02/22 Tue 12/04/22 201 days 662 717	
664 5.20.7.4	Compressed Air System, EQT029	396 days Fri 02/07/21	Mon 01/08/22	Fri 02/07/21 Mon 01/08 208 days	
665 5.20.7.4.1		210 days Fri 02/07/21	Thu 27/01/22	Fri 02/07/21 Thu 27/01/22 141 days 646 666	
666 5.20.7.4.2		45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22 Mon 01/08/ 0 days 665,727SS-6716	
667 5.20.7.5	Chemical Storage Tanks, EQT025	225 days Thu 10/06/21	Thu 20/01/22	Thu 10/06/21 Thu 20/01/22 403 days	
668 5.20.7.5.1	Manufacturing and Factory Acceptance Test of Plant	180 days Thu 10/06/21	Mon 06/12/21	Thu 10/06/21 Mon 06/12/ 0 days 648 669	
669 5.20.7.5.2	Shipping and Delivery of Plant to site	45 days Tue 07/12/21	Thu 20/01/22	Tue 07/12/21 Thu 20/01/22 104 days 668 721	
670 5.20.7.6	Chemical Dosing Pumps, EQT026	225 days Thu 10/06/21	Thu 20/01/22	Thu 10/06/21 Thu 20/01/22 403 days	
671 5.20.7.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days Thu 10/06/21	Mon 06/12/21	Thu 10/06/21 Mon 06/12/ 0 days 648 672	
672 5.20.7.6.2	Shipping and Delivery of Plant to site	45 days Tue 07/12/21	Thu 20/01/22	Tue 07/12/21 Thu 20/01/22 104 days 671 722	
673 5.20.7.7	Stoplogs and Penstocks, EQT013	396 days Fri 02/07/21	Mon 01/08/22	Fri 02/07/21 Mon 01/08 208 days	
674 5.20.7.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 02/07/21	Sat 26/02/22	Fri 02/07/21 Sat 26/02/22 111 days 646 675	
675 5.20.7.7.2	Shipping and Delivery of Plant to site	45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22 Mon 01/08/ 0 days 674,727SS-6714	
676 5.20.7.8	Pipework, Valves and Electric Actuators, EQT036 (Rev. 11)	285 days Thu 28/10/21	Mon 08/08/22	Thu 28/10/21 Mon 08/08 381 days 56,60	
677 5.20.7.8.1		240 days Thu 28/10/21	Fri 24/06/22	Thu 28/10/21 Fri 24/06/22 0 days 646 678	
678 5.20.7.8.2		45 days Sat 25/06/22	Mon 08/08/22		
679 5.20.7.9	Lifting Appliances	356 days Sun 14/03/21	Fri 04/03/22	Sun 14/03/21 Fri 04/03/22 206 days	
680 5.20.7.9.1	Manufacturing and Factory Acceptance Test of Plant	210 days Sun 14/03/21	Sat 09/10/21	Sun 14/03/21 Sat 09/10/21 101 days 652 681	
681 5.20.7.9.2	Shipping and Delivery of Plant to site	45 days Wed 19/01/22	Fri 04/03/22	Wed 19/01/22 Fri 04/03/22 16 days 680,704SS-6707,730	
682 5.20.7.10	LV Switchboards	395 days Sat 03/07/21	Mon 01/08/22	Sat 03/07/21 Mon 01/08 178 days	
683 5.20.7.10.	1 BR - Manufacturing of Plant	240 days Sat 03/07/21	Sun 27/02/22	Sat 03/07/21 Sun 27/02/22 0 days 526 684	
684 5.20.7.10.	2 BR - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days Mon 28/02/22	Sat 28/05/22	Mon 28/02/22 Sat 28/05/22 0 days 683 685	
685 5.20.7.10.	BR - Shipping and Delivery of Plant to site	45 days Sun 29/05/22	Tue 12/07/22	Sun 29/05/22 Tue 12/07/22 126 days 684 745	
686 5.20.7.10.	4 MFS - Manufacturing of Plant	240 days Sat 03/07/21	Sun 27/02/22	Sat 03/07/21 Sun 27/02/22 0 days 650 687	
687 5.20.7.10.		90 days Mon 28/02/22	Sat 28/05/22	Mon 28/02/22 Sat 28/05/22 20 days 686 688	
688 5.20.7.10.		45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22 Mon 01/08/ 106 days 687,727SS-6746	
689 5.20.7.11	HV Switchboards, EQT031	410 days Fri 18/06/21	Mon 01/08/22	Fri 18/06/21 Mon 01/08 208 days	
690 5.20.7.11.		180 days Fri 18/06/21	Tue 14/12/21		
691 5.20.7.11.		90 days Wed 15/12/21	Mon 14/03/22	Wed 15/12/21 Mon 14/03/ 95 days 690 692	
692 5.20.7.11.		45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22 Mon 01/08/ 106 days 691,727SS-6749	
693 5.20.7.12	11kV/380V Stepdown Power Transformers, EQT032	285 days Sat 06/11/21	Wed 17/08/22	Sat 06/11/21 Wed 17/08 417 days	
694 5.20.7.12.	1 MFS - Manufacturing and Factory Acceptance Test of Plant	240 days Sat 06/11/21	Sun 03/07/22	Sat 06/11/21 Sun 03/07/22 0 days 647 695	
695 5.20.7.12.	2 MFS - Shipping and Delivery of Plant to site	45 days Mon 04/07/22	Wed 17/08/22	Mon 04/07/22 Wed 17/08/ 90 days 694 750	
696 5.20.7.13	PLC System	285 days Sat 06/11/21	Wed 17/08/22	Sat 06/11/21 Wed 17/08 162 days	<del></del>
697 5.20.7.13.	1 Manufacturing of Plant, PLC for BR2A &B	210 days Sat 06/11/21	Fri 03/06/22	Sat 06/11/21 Fri 03/06/22 0 days 524 698	
698 5.20.7.13.		30 days Sat 04/06/22	Sun 03/07/22	Sat 04/06/22 Sun 03/07/22 0 days 697 699	
699 5.20.7.13.		45 days Mon 04/07/22	Wed 17/08/22	Mon 04/07/22 Wed 17/08/ 90 days 698 747	
700 5.20.7.13.		210 days Sat 06/11/21	Fri 03/06/22	Sat 06/11/21 Fri 03/06/22 0 days 647 701	
701 5.20.7.13.		30 days Sat 04/06/22	Sun 03/07/22	Sat 04/06/22 Sun 03/07/22 0 days 700 702	
702 5.20.7.13.		45 days Mon 04/07/22	Wed 17/08/22	Mon 04/07/22 Wed 17/08/ 90 days 701 748	
703 5.20.8	Site Installation Work	683 days Sun 20/03/22	Wed 31/01/24	Sun 20/03/22 Wed 31/01 0 days	
	Task Milestone ♦ Project Summar	y l Late	Critical :	plit Manual Progress — Milestone (Actual) 🛨	*
rise	Milestone, Tentative   Summary  Manual Summar		Progres	Slack (Float) Slack	
E/2018/04 01/07/21					

Drainage Services Department The Communication of the Issue Sang Special Administration Surject					Shek Wu l		Proposed Work Programn g Plant - Main Works Stag		04 for Sewage Treatment Facilities	A
ID WBS Task Name	Duration between Ta: Start and Finish	sk Start	Finish	Early Start	Early Finish	Free Slack Predec	essors Successors	Resource Names		2024 Half 1, 2024
704 5.20.8.1 Tentative Civil Handover Date, Portion		day Sun 20/03/22	Sun 20/03/22	Sun 20/03/22	Sun 20/03/22	0 days	707,713FS+45 eday	rs.706.	N J M M J S N J M J M M J S N J M J M M J S N J M M J S N J M M J S N J M M J S N J M M J S N J M M J S N J M M J S N J M J M M J S N J M M J S N J M M J S N J M M J S N J M M J S N J M M J S N J M M J S N J M J M M J S N J M M J S N J M J M M J S N J M J M M J S N J M M J S N J M M J M J N S N J M J M M J S N J M J M M J S N J M M J M J N S N J M J M M J S N J M J M M J S N J M M J M J M M J S N J M M J M J M M J S N J M M M J S N J M M J M M J S N J M M J M M J S N M J M M J M M J S N M J M M M J M M J M M J M M M J M M M J M M M J M M M J M M M J M M M M J M M M M J M M M M M M J M	1
705 5.20.8.2 Commencement of E&M Installation a		lays Mon 21/03/22	Fri 28/04/23	Mon 21/03/22		0 days 704				
706 5.20.8.2.1 Provision of Temporary Water Suppl		lays Mon 21/03/22	Sun 27/03/22	Mon 21/03/22						
7 5.20.8.2.2 Installation of Lifting Appliances at		lays Mon 21/03/22	Wed 25/05/22			248 days 704,68	31	.,		
08 5.20.8.2.2.: B2 EOT Crane LA-04-01 SWL 5t		lays Mon 21/03/22	Wed 04/05/22	Mon 21/03/22			710,711,712			
9 5.20.8.2.2.: B2 EOT Crane LA-04-02 SWL 5t		lays Mon 21/03/22	Tue 19/04/22	Mon 21/03/22			710,711,712		-	
0 5.20.8.2.2.: B2 MR LA-04-03 SWL 5t		lays Thu 05/05/22	Wed 18/05/22	Thu 05/05/22		0 days 708,70				
15.20.8.2.2.4 B1 MR LA-04-04 SWL 3t		lays Thu 05/05/22	Wed 18/05/22	Thu 05/05/22		0 days 708,70				
2 5.20.8.2.2.! T&C, Loading Test for Lifting Appli		lays Thu 19/05/22	Wed 25/05/22	Thu 19/05/22						
3 5.20.8.2.3 Mechanical Installations for E&M Ed		lays Thu 05/05/22	Fri 28/04/23	Thu 05/05/22		0 days 704FS				
45.20.8.2.3.: Installation of penstocks and stop		lays Tue 02/08/22	Sun 30/10/22	Tue 02/08/22		0 days 675	724	ME - E x 4~		
5.20.8.2.3.: Installation of hollow fibre members		lays Fri 22/07/22	Wed 19/10/22		Wed 19/10/			ME - A x 4~		
5.20.8.2.3.: Installation of air scour blowers (x		lays Tue 02/08/22	Sun 30/10/22	Tue 02/08/22		0 days 660,66		ME - B x 4~		
75.20.8.2.3. Installation of permeate pumps (x		lays Mon 31/10/22	Sat 28/01/23	Mon 31/10/22		0 days 716,66		ME - A x 4~		
5.20.8.2.3.! Installation of return activated slu		lays Mon 31/10/22	Sat 28/01/23	Mon 31/10/22		0 days 716,00	720	ME - B x 4~		
95.20.8.2.3.1 Installation of membrane tank dra		lays Thu 05/05/22	Sat 18/06/22	Thu 05/05/22		224 days	720	ME - C x 4~		
D 5.20.8.2.3. Installation of pipework and valve		lays Sun 29/01/23	Fri 28/04/23	Sun 29/01/23		0 days 716,71		ME - C x 4~		
		lays Thu 05/05/22	Sun 03/07/22	Thu 05/05/22			17,71072411	ME - D x 2^		
5.20.8.2.3. Installation of chemical storage ta		lays Thu 05/05/22	Sun 03/07/22			299 days 672		ME - D x 2		
5.20.8.2.3.: Installation of chemical dosing put  8.5.20.8.2.3.: Installation of plant service water		lays Thu 05/05/22	Tue 02/08/22	Thu 05/05/22				ME - C x 4~		
						168 days 714,72	20EE 760	ME - D x 2^		
4 5.20.8.2.3.: Site Acceptance Tests - mechanica 5 5.20.8.2.4 Electrical Installations for E&M Equi		lays Mon 31/10/22 lays Thu 05/05/22	Fri 28/04/23 Sat 01/10/22	Mon 31/10/22 Thu 05/05/22		237 days 713SS		WIL DAZ		
	A	lays Thu 05/05/22	Sat 01/10/22	Thu 05/05/22		45 days	751			
16 5.20.8.2.4.: Installation of cable trays and cable			Wed 17/08/22	Wed 17/08/22		0 days	731 730,739FS+45 eday	re 7631	0.17/08	
27 5.20.8.3 Tentative Civil Handover Date, Portion		day Wed 17/08/22					750,753F3F45 Eday	3,7031		
28 5.20.8.4 Commencement of E&M Installation a		lays Thu 18/08/22	Wed 31/01/24	Thu 18/08/22		0 days 727				
29 5.20.8.4.1 Provision of Temporary Water Suppl		lays Thu 18/08/22	Wed 24/08/22	Thu 18/08/22		0 days 727	14			
0 5.20.8.4.2 Installation of Lifting Appliances at		lays Thu 18/08/22	Fri 06/01/23	Thu 18/08/22		40 days 727,68		LA - A x 4~6		
15.20.8.4.2.: GF EOT Crane LA-04-05 SWL 5t		lays Thu 18/08/22	Sat 01/10/22	Thu 18/08/22			733,734,738	LA - B x 4~6		
32 5.20.8.4.2.: GF Gantry Crane LA-04-06 SWL 6t		lays Thu 18/08/22	Sat 01/10/22	Thu 18/08/22		0 days				
33 5.20.8.4.2.: 1F EOT Crane LA-04-07 SWL 15t		lays Sun 02/10/22	Tue 15/11/22	Sun 02/10/22		0 days 731,73		LA - A x 4~6		
34 5.20.8.4.2.4 1F EOT Crane LA-04-08 SWL 15t		lays Sun 02/10/22	Tue 15/11/22	Sun 02/10/22			735,736,737,738	LA - B x 4~6		
35 5.20.8.4.2.! RF EOT Crane LA-04-09 SWL 2t		lays Wed 16/11/22	Fri 30/12/22	Wed 16/11/22		0 days 733,73		LA - A x 4~6		
36 5.20.8.4.2.0 RF Retractable MR LA-04-10 SWL		lays Wed 16/11/22	Fri 30/12/22	Wed 16/11/22		0 days 733,73		LA - B x 4~6		
737 5.20.8.4.2. Mobile A-frame LA-04-11 SWL 2t		lays Wed 16/11/22	Tue 22/11/22	Wed 16/11/22		38 days 733,73 0 days 731,73		LA - C x 4~6		
738 5.20.8.4.2.1 T&C, Loading Test for Lifting Appli		lays Sat 31/12/22	Fri 06/01/23	Sat 31/12/22 Sun 02/10/22	Fri 06/01/23					
739 5.20.8.4.3 Mechanical Installations for E&M Ed		lays Sun 02/10/22	Fri 13/10/23				+45 ec744SS+45 edays,76			
740 5.20.8.4.3.: Installation of air scour blowers (x		lays Sat 07/01/23	Sun 16/04/23	Sat 07/01/23		0 days 738	741,743	ME - A x 4^		
741 5.20.8.4.3 Installation of compressed air syst		lays Mon 17/04/23	Thu 15/06/23	Mon 17/04/23				ME - B x 4~		
42 5.20.8.4.3.: Installation of instrumentations, E		lays Sun 02/10/22	Wed 30/11/22	Sun 02/10/22				ME - D x 2^		
43 5.20.8.4.3. Site Acceptance Tests - mechanica		lays Mon 17/04/23	Fri 13/10/23	Mon 17/04/23		40 days 740		ME - D x 2^		
744 5.20.8.4.4 Electrical Installations for E&M Equi		lays Wed 16/11/22	Mon 11/09/23	Wed 16/11/22						
745 5.20.8.4.4. Installation of LV Switchboards, Bl		lays Wed 16/11/22	Mon 13/02/23	Wed 16/11/22			752	LV - B x 4~6		
46 5.20.8.4.4 Installation of LV Switchboards, M		lays Wed 16/11/22	Mon 13/02/23	Wed 16/11/22			752	LV - A x 4~€		
47 5.20.8.4.4.: Installation of PLC Panels, BR2		lays Wed 16/11/22	Mon 13/02/23	Wed 16/11/22			752,756	Pio -		
8 5.20.8.4.4.4 Installation of PLC Panels, MFB No		lays Wed 16/11/22	Mon 13/02/23	Wed 16/11/22				PLC - B x 1	_       _   _   _   _   _   _   _	
9 5.20.8.4.4.! Installation of HV Switchboards, N		lays Wed 16/11/22	Sat 14/01/23	Wed 16/11/22		30 days 692	752	HV - A x 4~		
0.5.20.8.4.4.0 Installation of transformer, MFB N		lays Wed 16/11/22	Fri 30/12/22	Wed 16/11/22						
1 5.20.8.4.4. Installation of cable trays and cab		lays Wed 16/11/22	Sun 14/05/23	Wed 16/11/22						
2 5.20.8.4.4.2 Cables laying and terminations		lays Tue 14/02/23	Thu 13/07/23	Tue 14/02/23			16,747757,754,753		31/07	
3 5.20.8.4.4.9 Energisation of LV Switchboards, I		day Mon 31/07/23	Mon 31/07/23			114 days 752		LA - A x 4~6		
4 5.20.8.4.4.: Site Acceptance Tests - Electrical a		lays Fri 14/07/23	Mon 11/09/23	Fri 14/07/23			760	LV - A x 4~€		
5.20.8.4.5 SCADA Systems, BR No. 1 & No 2, N		lays Fri 14/07/23	Tue 21/11/23	Fri 14/07/23						
6 5.20.8.4.5.: Configuration of PLC System for B		days Mon 02/10/23	Tue 31/10/23	Mon 02/10/23		0 days 747,58		PLC - A x 1		
7 5.20.8.4.5 Configuration of PLC System for N		days Fri 14/07/23	Sat 12/08/23	Fri 14/07/23		0 days 752	759			
8 5.20.8.4.5.: Site Acceptance Test for PLC Syste		days Wed 01/11/23	Tue 21/11/23	Wed 01/11/23			761,587,1270			
59 5.20.8.4.5. Site Acceptance Test for PLC Syste	at MFB No. 2 21 d	lays Sun 13/08/23	Sat 02/09/23	Sun 13/08/23			761,1270			
60 5.20.8.4.6 Site Acceptance Test for E&M Equip	MFB No. 2 30 ed	lays Fri 13/10/23	Sun 12/11/23	Fri 13/10/23	Sun 12/11/23	28.63 edays 739,74	14,754761			
51 5.20.8.4.7 System Commissioning for E&M Equ	at MFB No. 2 45 d	days Mon 11/12/23	Wed 24/01/24	Mon 11/12/23	Wed 24/01/	0 days 758,76	50,770762			
762 5.20.8.4.8 Risk Allowances for Completion of P	essing Plant at MFB No. 2 7 ed	days Wed 24/01/24	Wed 31/01/24	Wed 24/01/24	Wed 31/01/	7.63 edays 761	1266			N.
Task Milestone	♦ Project Summary	Late	Critical S	Solit	Manual F	rogress	Milestone (Actual)	*		
Milestone, Tentative   Summary	Manual Summary	Critical	Progress	-	Slack (Flo		Slack			
2018/04 1/07/21										
							Page 13 of 2		DE_2018_04 Revise	

Drainage Service:	s Department food demonstrate fugina				Shek Wu		oposed Work Programm Plant - Main Works Stage		r Sewage Treatment Facilities
ID WBS	Task Name	Duration between Task Start	Finish	Early Start		Free Slack Predecess		Resource	2020 2021 2022 2023 2024
		Start and Finish	610/19/29	C 45 (04 (22	S 10/13/3	2 42 4		Names	Haif 1, 2020
63 763 5.20.8.4.9		330 days Sun 15/01/23	Sun 10/12/23	Sun 15/01/23				140/AC A	
64 764 5.20.8.4.9.		120 days Sun 15/01/23	Sun 14/05/23	Sun 15/01/23			770	MVAC - A	
65 765 5.20.8.4.9. 66 766 5.20.8.4.9.		210 days Sun 15/01/23	Sat 12/08/23 Thu 13/07/23	Sun 15/01/23			770 1239,770	BS - A x 4~ Pb - B x 4~	
		180 days Sun 15/01/23		Sun 15/01/23				BS - B x 4~	
67 767 5.20.8.4.9.		90 days Sun 15/01/23	Fri 14/04/23	Sun 15/01/23					
68 768 5.20.8.4.9.		120 days Sun 15/01/23	Sun 14/05/23	Sun 15/01/23			1190,1202,1203,77		
69 769 5.20.8.4.9.		60 days Sun 15/01/23	Wed 15/03/23	Sun 15/01/23			761FF	BS - C x 2~	
70 770 5.20.8.4.9.			Sun 10/12/23	Sun 13/08/23			,700,701	BS - C x 2~	
71 771 5.21	Chemical System No. 1 and No. 2, Portion B-7 & B-7B (PS 6B.2.3)	1351 days Tue 21/07/20	Mon 01/04/24	Tue 21/07/20			2051		@.01/06
72 772 5.21.1 73 773 5.21.2	Planned Key Date Completion Date - KD1B, Chem Sys No. 1 & 2	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21					@ 12/07
	Planned Sectional Completion Date - Section 1, Chem Sys No. 1 & 2	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21			7271		
74 774 5.21.3	Planned Sectional Completion Date - Section 2, Chem Sys No. 1 & 2	0 days Mon 01/04/24	Mon 01/04/24	Mon 01/04/24					
75 <b>775 5.21.4</b> 76 <b>776 5.21.4.1</b>	Selection of Suppliers for major plant and materials for Chemical Syster  Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQT025	240 days Thu 01/10/20 240 days Thu 01/10/20	Fri 28/05/21 Fri 28/05/21	Thu 01/10/20 Thu 01/10/20	Fri 28/05/21	0 days			
76 776 5.21.4.1 77 777 5.21.4.1.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20		Sun 29/11/20		778		
						0 days	779		
78 778 5.21.4.1.2	Invitation of quotations for purchasing package	30 days Mon 30/11/20	Tue 29/12/20	Mon 30/11/20		0 days 777	799		
79 779 5.21.4.1.3	Acceptance of conforming quotation	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20		30 days 778	/31		
80 780 5.21.4.2	Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQT027	150 days Thu 01/10/20	Sat 27/02/21		Sat 27/02/21	54 days	782		
81 781 5.21.4.2.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20		Sun 29/11/20	0 days 0 days 781	782		
82 782 5.21.4.2.2	Invitation of quotations for purchasing package  Acceptance of conforming quotation	60 days Mon 30/11/20 30 days Fri 29/01/21	Thu 28/01/21 Sat 27/02/21	Mon 30/11/20 Fri 29/01/21	Thu 28/01/21 Sat 27/02/21	0 days 781	791,792,793		
83 783 5.21.4.2.3							731,782,783		
84 784 5.21.4.3	Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026	120 days Thu 01/10/20 60 days Thu 01/10/20	Thu 28/01/21 Sun 29/11/20		Thu 28/01/21 Sun 29/11/20	84 days 0 days	786		
85 785 5.21.4.3.1	Submission for acceptance of purchasing package	30 days Mon 30/11/20		Mon 30/11/20		0 days 0 days 785	787		
86 786 5.21.4.3.2	Invitation of quotations for purchasing package	30 days Wed 30/12/20	Tue 29/12/20 Thu 28/01/21	Wed 30/12/20			791		
87 787 5.21.4.3.3	Acceptance of conforming quotation						/91		
788 5.21.5	Design Submissions for Chemical System No. 1 and No. 2	324 days Tue 21/07/20	Thu 10/06/21	Tue 21/07/20			7725		
89 789 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	Tue 21/07/20			772FF		
790 5.21.5.2	CDS081-5 - Civil and dimensional requirements drawings for Chemical		Thu 05/11/20		Thu 05/11/20	0.63 edays 779,783,	772FF		
791 5.21.5.3	CDS006 - Detailed Design for Chemical Dosing System	90 edays Sat 27/02/21 90 edays Sat 27/02/21	Fri 28/05/21 Fri 28/05/21		Fri 28/05/21		810,773FF		
92 792 5.21.5.4 93 793 5.21.5.5	CDS027 - Detailed Design for Electrical Installations for Chemical Syste  CDS028 - Detailed Design for Electrical Installations for Chemical Syste		Fri 28/05/21	Sat 27/02/21			810,773FF 810,773FF		
793 793 3.21.3.3			Thu 10/06/21			1 32.38 edays 133	810,773FF		
794 5.21.5.6 95 <b>795 5.21.6</b>	CDS034-5 - Detailed Design for Electrical Installations BS at Chemical S  Manufacturing and Delivery of Plant & Materials	296 days Sat 29/05/21	Sun 20/03/22		Sun 20/03/22		810,773FF		
96 796 5.21.6.1	Chemical Storage Tanks, EQT025	225 days Sat 29/05/21	Sat 08/01/22		Sat 08/01/22				
790 5.21.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sat 29/05/21	Wed 24/11/21		Wed 24/11/		798		
98 7985.21.6.1.2	Shipping and Delivery of Plant to site	45 days Thu 25/11/21	Sat 08/01/22	Thu 25/11/21			809		
99 799 5.21.6.2	Chemical Dosing Pumps, EQT027	296 days Sat 29/05/21	Sun 20/03/22	Sat 29/05/21					
00 800 5.21.6.2.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sat 29/05/21	Wed 24/11/21	Sat 29/05/21			801		
01 8015.21.6.2.2	Shipping and Delivery of Plant to site	45 days Fri 04/02/22	Sun 20/03/22	Fri 04/02/22					
02 802 5.21.6.3	Chemical Transfer Pumps, EQT026	296 days Sat 29/05/21	Sun 20/03/22	Sat 29/05/21					
03 803 5.21.6.3.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sat 29/05/21	Wed 24/11/21	Sat 29/05/21			804		
04 804 5.21.6.3.2	Shipping and Delivery of Plant to site	45 days Fri 04/02/22	Sun 20/03/22		Sun 20/03/22				
05 <b>805 5.21.7</b>	Site Installation Work	307 days Tue 22/03/22	Mon 23/01/23	Tue 22/03/22					
06 806 5.21.7.1	Tentative Civil Handover Date, Portion B-7 & B-7B (Rev. 5)	1 day Thu 19/05/22	Thu 19/05/22	Thu 19/05/22			804FF-60 edays,801	LFF-60	€ 19/05
07 807 5.21.7.2	Tentative Civil Handover Date, Chemical Pipe Trench (by others)	1 day Sun 01/05/22	Sun 01/05/22	Sun 01/05/22			809FF+50 days		<u> </u>
08 808 5.21.7.3	Commencement of E&M Installation at Chemical Dosing System 1 an		Mon 23/01/23	Tue 22/03/22			,		
09 809 5.21.7.3.1	Mechanical Installations for E&M Equip. for Chemical Dosing System		Mon 20/06/22			0 edays 807FF+50	0 da810	ME - D x 2	
10 810 5.21.7.3.2	Electrical Installations for E&M Equip. for Chemical Dosing System	90 edays Mon 20/06/22	Sun 18/09/22			2 0.63 edays 809,792,			
11 8115.21.7.3.3	Site Acceptance Test for E&M Equip for Chemical Dosing System	45 days Mon 19/09/22	Wed 02/11/22	Mon 19/09/22			812		
12 812 5.21.7.3.4	System Commissioning for E&M Equip for Chemical Dosing System	45 days Thu 03/11/22	Sat 17/12/22	Thu 03/11/22			813		
12 812 5.21.7.3.4 13 813 5.21.7.3.5	Risk Allowances for Completion of Processing Plant at Chemical Dos		Sat 17/12/22 Sat 24/12/22			410.63 ed 812	1266		
14 814 5.21.7.3.6	Building Services Installations at Chemical Dosing System areas	249 days Fri 20/05/22	Mon 23/01/23		Mon 23/01				
15 815 5.21.7.3.6.		120 days Fri 20/05/22	Fri 16/09/22		Fri 16/09/22		820	BS - B x 4~	
16 816 5.21.7.3.6.		120 days Fri 20/05/22	Fri 16/09/22		Fri 16/09/22		1202,1203,1193,820		
16 816 5.21.7.3.6. 17 817 5.21.7.3.6.		30 days Fri 20/05/22	Sat 18/06/22		Sat 18/06/22		820		
17 817 5.21.7.3.6. 18 818 5.21.7.3.6.		14 days Fri 20/05/22	Thu 02/06/22		Thu 02/06/22		820	MVAC - A	
		7 days Mon 19/09/22	Sun 25/09/22	Mon 19/09/22			820	Pb - A x 4~	
19 819 5.21.7.3.6.			Mon 23/01/23	Mon 19/09/22 Mon 26/09/22				BS - C x 2~	
20 820 5.21.7.3.6.							//11	D3 - C X Z	
21 821 5.22	Temporary Chemical Dosing System, Portion B7 & B-7B (PS 6B.2.3)	1344 days Tue 28/07/20	Mon 01/04/24	Tue 28/07/20	WION 01/04	o days			
	Task Milestone ♦ Project St	ummary Late	Critical 5	Split	· · · · Manual	Progress	Milestone (Actual)	*	
Bestwise oject: DE/2018/04	Milestone, Tentative  Summary  Manual S	dummary Critical	Progress	ss	Slack (Fl	loat)	Slack		
e: Thu 01/07/21									
tus Date Wed 30/06,	/21						Page 14 of 2	3	DE_2018_04 Revised PG- (Rev 1:

Drainage Services Departme The Commission of the Hong Many Special Administration	eent on Buyen					Shek Wu H		osed Work Programme : nt - Main Works Stage 1		r Sewage Treatment Facili	ties								AECO
D ID WBS Task Nam	ne	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack Predecessor	s Successors	Resource Names	2020 Half 1, 2020	Half 2, 2020	2021 D Half 1, 2	221	Half 2, 2021	2022 Half 1, 2022	Half 2, 2022	2023 Half 1, 2023	Half 2, 2023	2024 Half 1, 2024
822 822 5.22.1 Pla	anned Key Date Completion Date - KD1B, Temp. Chem Dosing Sys	0 day	ys Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 839FF,840	FF		L M L L Y	M L J	sNJ	M M	01/06	N	1 M J S	M L M		Half 1, 2024 N J M
823 823 5.22.2 Pla	anned Sectional Completion Date - Section 1, Temp. Chem Dosing Sys	0 day	ys Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/	0 days 841FF							@ 12/07					
B24 824 5.22.3 Pla	anned Sectional Completion Date - Section 2, Temp. Chem Dosing Sys	0 day	ys Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/	0 days												⊚ 01
825 <b>825 5.22.4</b> Sel	lection of Suppliers for major plant and materials for Temp. Chemical	150 day	ys Thu 01/10/20	Sat 27/02/21	Thu 01/10/20	Sat 27/02/21	668 days					<b>Q</b>	,						
826 826 5.22.4.1	Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQTO	120 day	ys Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	45 days					·	_						
827 827 5.22.4.1.1	Submission for acceptance of purchasing package	60 day	ys Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	828											
828 828 5.22.4.1.2	Invitation of quotations for purchasing package	30 day	ys Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days 827	829				*							
829 829 5.22.4.1.3	Acceptance of conforming quotation	30 day	ys Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days 828	841,844				<u>*</u>							
830 830 5.22.4.2	Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQTO	150 day	ys Thu 01/10/20	Sat 27/02/21	Thu 01/10/20	Sat 27/02/21	668 days					-	,						
831 831 5.22.4.2.1	Submission for acceptance of purchasing package	60 day	ys Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	832											
832 832 5.22.4.2.2	Invitation of quotations for purchasing package	60 day	ys Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days 831	833				*							
833 833 5.22.4.2.3	Acceptance of conforming quotation	30 day	ys Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	0 days 832	847				*	h						
834 834 5.22.4.3	Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026	120 day	ys Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	698 days					•							
835 835 5.22.4.3.1	Submission for acceptance of purchasing package	60 day	ys Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	836											
836 836 5.22.4.3.2	Invitation of quotations for purchasing package	30 day	ys Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days 835	837				<u> </u>							
837 837 5.22.4.3.3	Acceptance of conforming quotation	30 day	ys Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days 836	850				-							
838 838 5.22.5 Des	sign Submissions for Temporary Chemical Dosing System	275 day	ys Tue 28/07/20	Wed 28/04/21	Tue 28/07/20	Wed 28/04	75 days				-			+					
839 839 5.22.5.1 E	Electrical schematic drawings for Temporary Chemical Dosing System	60 day	ys Tue 28/07/20	Fri 25/09/20	Tue 28/07/20	Fri 25/09/20	0 days	822FF			-								
840 840 5.22.5.2	CDS081-6 - Civil and dimensional requirements drawings for Temporar	70 day	ys Fri 28/08/20	Thu 05/11/20	Fri 28/08/20	Thu 05/11/20	0 days	822FF			-								
841 841 5.22.5.3	CDS029 - Detailed Design for Electrical Installations for Temporary Che	90 eday	ys Thu 28/01/21	Wed 28/04/21	Thu 28/01/21	Wed 28/04/	75 edays 829	857,823FF				*	-	+					
842 <b>842 5.22.6</b> Ma	anufacturing and Delivery of Plant & Materials	416 day	ys Fri 29/01/21	Sun 20/03/22	Fri 29/01/21	Sun 20/03/22	507 days					-							
843 843 5.22.6.1	Chemical Storage Tanks, EQT025	416 day	ys Fri 29/01/21	Sun 20/03/22	Fri 29/01/21	Sun 20/03/22	507 days					-							
844 844 5.22.6.1.1	Manufacturing and Factory Acceptance Test of Plant	180 day	ys Fri 29/01/21	Tue 27/07/21	Fri 29/01/21	Tue 27/07/21	191 days 829	845				*							
845 5.22.6.1.2	Shipping and Delivery of Plant to site	45 day	ys Fri 04/02/22	Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	20 days 844,853FF-	6856							+	<del>-</del>			
846 846 5.22.6.2	Chemical Dosing Pumps, EQT027	386 day	ys Sun 28/02/21	Sun 20/03/22	Sun 28/02/21	Sun 20/03/22	507 days												
47 847 5.22.6.2.1	Manufacturing and Factory Acceptance Test of Plant	180 day	ys Sun 28/02/21	Thu 26/08/21	Sun 28/02/21	Thu 26/08/21	161 days 833	848					+						
48 848 5.22.6.2.2	Shipping and Delivery of Plant to site	45 day	ys Fri 04/02/22	Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	20 days 847,853FF-	6856							+				
49 849 5.22.6.3	Chemical Transfer Pumps, EQT026	416 day	ys Fri 29/01/21	Sun 20/03/22	Fri 29/01/21	Sun 20/03/22	507 days					-							
850 5.22.6.3.1	Manufacturing and Factory Acceptance Test of Plant	180 day	ys Fri 29/01/21	Tue 27/07/21	Fri 29/01/21	Tue 27/07/21	191 days 837	851				*							
851 851 5.22.6.3.2	Shipping and Delivery of Plant to site	45 day	ys Fri 04/02/22	Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	20 days 850,853FF-	6856							-	<del>                                     </del>			
852 <b>852 5.22.7</b> Site	e Installation Work	361 day	ys Sat 09/04/22	Wed 05/04/23	Sat 09/04/22	Wed 05/04	313 days												
853 853 5.22.7.1 T	Tentative Civil Handover Date, Temporary Chemical Dosing (Rev. 5)	1 da	ay Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days	845FF-60 edays,848FF	-60		-					€ 19/05			
354 854 5.22.7.2 T	Tentative Civil Handover Date, Chemical Pipe Trench (by others)	1 da	ay Sun 01/05/22	Sun 01/05/22	Sun 01/05/22	Sun 01/05/22	51 days	856FF+50 days								@_01/ <u>0</u> 5			
855 855 5.22.7.3	Commencement of E&M Installation at Temporary Chemical Dosing S	361 day	ys Sat 09/04/22	Wed 05/04/23	Sat 09/04/22	Wed 05/04	313 days												
856 5.22.7.3.1	Mechanical Installations for E&M Equip. for Chemical Dosing System	90 eday	ys Sat 09/04/22	Fri 08/07/22	Sat 09/04/22	Fri 08/07/22	0 edays 854FF+50	d:857SS+30 edays,858	ME - D x 2^										
857 857 5.22.7.3.2	Electrical Installations for E&M Equip. for Chemical Dosing System	90 eday	ys Mon 09/05/22	Sun 07/08/22	Mon 09/05/22	Sun 07/08/22	0 edays 856SS+30 e	ec858											
358 858 5.22.7.3.3	Site Acceptance Test for E&M Equip for Chemical Dosing System	30 eday	ys Sun 07/08/22	Tue 06/09/22	Sun 07/08/22	Tue 06/09/22	174 edays 856,857	859								#			
859 859 5.22.7.3.4	System Commissioning for E&M Equip for Chemical Dosing System	30 eday	ys Mon 27/02/23	Wed 29/03/23	Mon 27/02/23	Wed 29/03/	0 edays 858,866FF	860									*		
860 860 5.22.7.3.5	Risk Allowances for Completion of Processing Plant at Chemical Dosi	7 eday	ys Wed 29/03/23	Wed 05/04/23	Wed 29/03/23	Wed 05/04/	308.63 ed 859	1266									i i		
361 <b>861 5.22.7.3.6</b>	Building Services Installations at Temp. Chemical Dosing System are	314 day	ys Fri 20/05/22	Wed 29/03/23	Fri 20/05/22	Wed 29/03	313 days									•			
62 862 5.22.7.3.6.:	Lighting and Power Distribution System, Temp. Chem	90 day	ys Fri 20/05/22	Wed 17/08/22	Fri 20/05/22	Wed 17/08/	0 days 853	866,863	BS - A x 4~6							*			
863 5.22.7.3.6.2	Fire Services Installation, DG Stores, Temp. Chem	90 day	ys Thu 18/08/22	Tue 15/11/22	Thu 18/08/22	Tue 15/11/22	0 days 862	1202,1203,866,864	FS - A x 4~6							*			
864 864 5.22.7.3.6.3	Lightning Protection System, Temp. Chem	30 day	ys Wed 16/11/22	Thu 15/12/22	Wed 16/11/22	Thu 15/12/22	0 days 863	865									-		
865 5.22.7.3.6.4	Mechanical Ventilation System, Temp. Chem	14 day	ys Fri 16/12/22	Thu 29/12/22	Fri 16/12/22	Thu 29/12/22	0 days 864	866	MVAC - A x										
866 866 5.22.7.3.6.!	Testing and Commissioning of Building Services Installations, Tem	90 day	ys Fri 30/12/22	Wed 29/03/23	Fri 30/12/22	Wed 29/03/	0 days 862,863,86	5859FF	BS - C x 2~4								*		
367 <b>867</b> 5.23 Emerg	gency Generator House, Portion B7 & B-7B (PS 6B.6.6)	1279 day	ys Thu 01/10/20	Mon 01/04/24	Thu 01/10/20	Mon 01/04	0 days					-							7
868 868 5.23.1 Plan	nned Key Date Completion Date - KD1B, Emergency Generator House	0 day	ys Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 872FF						6	01/06					
169 869 5.23.2 Plan	nned Sectional Completion Date - Section 1, Emergency Generator Ho	0 day	ys Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/	0 days 873FF,874	1						<b>@</b> 12/07					
70 870 5.23.3 Plan	nned Sectional Completion Date - Section 2, Emergency Generator Ho	0 day	ys Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/	0 days 887FF												€ 01
71 <b>871</b> 5.23.4 Des	sign Submissions for Emergency Generator Set	252 day	ys Thu 01/10/20	Thu 10/06/21	Thu 01/10/20	Thu 10/06/21	33 days					•	-	+					
72 872 5.23.4.1	CDS081-10 - Civil and dimensional requirements drawings for Emergen	90 day	ys Fri 01/01/21	Wed 31/03/21	Fri 01/01/21	Wed 31/03/	0 days	868FF				_							
73 873 5.23.4.2	CDS061 - Detailed Design for Emergency Generator Set	150 eday	ys Thu 01/10/20	Sun 28/02/21	Thu 01/10/20	Sun 28/02/21	134.38 ed	869FF						+					
74 874 5.23.4.3	CDS034-6 - Detailed Design for Electrical Installations BS at Emergency	90 eday	ys Fri 12/03/21	Thu 10/06/21	Fri 12/03/21	Thu 10/06/21	0 edays 133	876,881,869FF					_						
75 <b>875 5.23.5</b> Ma	anufacturing and Delivery of Plant & Materials	285 day	ys Thu 10/06/21	Mon 21/03/22	Thu 10/06/21	Mon 21/03	616 days						•						
76 876 5.23.5.1 N	Manufacturing and Factory Acceptance Test of Plant	240 day	ys Thu 10/06/21	Fri 04/02/22	Thu 10/06/21	Fri 04/02/22	0 days 874	877		1									
77 877 5.23.5.2	Shipping and Delivery of Plant to Site	45 day	ys Sat 05/02/22	Mon 21/03/22	Sat 05/02/22	Mon 21/03/	589 days 876,879FF-	6882							-				
878 <b>878</b> 5.23.6 Site	e Installation Work	1000 day	ys Thu 10/06/21	Tue 05/03/24	Thu 10/06/21	Tue 05/03/24	27 days						•						-
879 879 5.23.6.1	Tentative Civil Handover Date, Emergency Generator House (Rev. 5)	1 da	ay Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	1 day	856FF+50 days,877FF-	-60							<b>19/05</b>			
880 880 5.23.6.2	Commencement of E&M Installation at Emergency Generator House	1000 day	ys Thu 10/06/21	Tue 05/03/24	Thu 10/06/21	Tue 05/03/24	27 days						•						
	Milatana	many Promoternia	1 Late	Can	Solit	Ma12	rogress	Milestone (Actual)		A		<i>*</i>		hA					Act
	Milestone ♦ Project Sum  Tentative  Summary Manual Sum		Late Critical	Critical :	is	Manual P Slack (Flo		Slack											
ject: DE/2018/04 e: Thu 01/07/21																			

Drainage Services Department The Comment of the Imag Special Administration Suprise				Shek Wu H	ui Effluent Polishing P	iant - Iviani vvoiks stage	I EXIVI WORKS TOT	
ID WBS Task Name	Duration between Task Start and Finish	Finish	Early Start Ea	arly Finish F	Free Slack Predecesso	ors Successors	Resource Names	18757
881 5.23.6.2.1 Application for EPD's Approval for Installation of Diesel Engine Gener	21 days Thu 10/06/21	Wed 30/06/21	Thu 10/06/21 W	Ved 30/06/	853 days 874	882		Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 1, 2022 Half 1, 2023 Half 2, 2023 Half 1, 2024  N J M M J S N J M J M M J S N J M M J S N J M J M M J S N J M J M M J S N J M M J S N J M J M M J S N J M J M M J S N J M J M M J S N J M M J M J S N J M J M M J S N J M J M M J S N J M J M M J S N J M J M M J S N J M J M M J S N J M J M M J M J S N J M J M M J M J M M J M J M M M J M M M J M M M J M M M J M M M J M M M J M M M M J M
882 5.23.6.2.2 Installation and SAT of Emergency Power Generator and associated v	60 days Wed 01/11/23	Sat 30/12/23	Wed 01/11/23 Sa		0 days 881,877		GS - A x 4 n	(4n
883 5.23.6.2.3 Building Services Installation at Emergency Generator House	66 days Sun 31/12/23	Tue 05/03/24	Sun 31/12/23 Tu		27 days			<u> </u>
884 5.23.6.2.3.: Fire Services Installation, GH	30 days Sun 31/12/23	Mon 29/01/24	Sun 31/12/23 M		0 days 882	885	FS - A x 4~6	.4~6
885 5.23.6.2.3.: Mechanical Ventilation System, GH	14 days Tue 30/01/24	Mon 12/02/24	Tue 30/01/24 M		0 days 884	886	MVAC - A x	-AX
886 5.23.6.2.3.: Lightning Protection System, GH	15 days Tue 13/02/24	Tue 27/02/24	Tue 13/02/24 Tu	ue 27/02/24	0 days 885	887		
887 5.23.6.2.3.4 Testing and Commissioning of Building Services Installation, GH	7 days Wed 28/02/24	Tue 05/03/24	Wed 28/02/24 Tu	ue 05/03/24	27 days 886	870FF	BS - A x 4~€	.4~6
888 5.24 Deodorization System, DOU 1, Portion B7 & B-7B (PS 6B.2.6)	1583 days Mon 02/12/19	Mon 01/04/24	Mon 02/12/19 M	1on 01/04	0 days			
889 5.24.1 Planned Key Date Completion Date - KD1B, DOU 1	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21 Tu	ue 01/06/21	0 days 902FF,903	3FF		€,01/06
890 5.24.2 Planned Sectional Completion Date - Section 1, DOU 1	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21 M	10n 12/07/	0 days 904FF			<b>€</b> 12/07
891.5.24.3 Planned Sectional Completion Date - Section 2, DOU 1	0 days Mon 01/04/24	Mon 01/04/24	Mon 01/04/24 M	1on 01/04/	0 days			
892 5.24.4 Selection of Plant and Materials	485 days Mon 02/12/19	Tue 30/03/21	Mon 02/12/19 Tu	ue 30/03/21	80 days			
893 5.24.4.1 DOU - biotrickling filter (DOU No. 1), C11, ref. EQT001	194 days Mon 02/12/19	Fri 12/06/20	Mon 02/12/19 Fr	ri 12/06/20	0 days			
894 5.24.4.1.1 Submission for acceptance of purchasing package	120 days Mon 02/12/19	Mon 30/03/20	Mon 02/12/19 M	1on 30/03/	0 days	895		
895 5.24.4.1.2 Invitation of quotations for purchasing package	60 days Tue 31/03/20	Fri 29/05/20	Tue 31/03/20 Fr	ri 29/05/20	0 days 894	896		
896 5.24.4.1.3 Acceptance of conforming quotation (Completed)	14 days Sat 30/05/20	Fri 12/06/20	Sat 30/05/20 Fr	ri 12/06/20	0 days 895	904		<u> </u>
897 5.24.4.2 DOU - FRP air ductwork, C11, EQT047	120 days Tue 01/12/20	Tue 30/03/21	Tue 01/12/20 Tu	ue 30/03/21	80 days			
898 5.24.4.2.1 Submission for acceptance of purchasing package	60 days Tue 01/12/20	Fri 29/01/21	Tue 01/12/20 Fr	ri 29/01/21	0 days	899		
899 5.24.4.2.2 Invitation of quotations for purchasing package	30 days Sat 30/01/21	Sun 28/02/21	Sat 30/01/21 Su	un 28/02/21	0 days 898	900		
900 5.24.4.2.3 Acceptance of conforming quotation	30 days Mon 01/03/21	Tue 30/03/21	Mon 01/03/21 Tu	ue 30/03/21	0 days 899	904		
901 5.24.5 Design Submissions for DOU No. 1	359 days Wed 15/07/20	Thu 08/07/21	Wed 15/07/20 Th	hu 08/07/21	4 days			
902 5.24.5.1 Electrical schematic drawings for Deodorisation Systems	90 days Wed 15/07/20	Mon 12/10/20	Wed 15/07/20 M	lon 12/10/	0 days	889FF		
903 5.24.5.2 CDS081-7 - Civil and dimensional requirements drawings for DOU No. 1	70 days Fri 28/08/20	Thu 05/11/20	Fri 28/08/20 Th	hu 05/11/20	0 days	889FF		
904 5.24.5.3 CDS007-1 - Detailed Design for Deodorisation System, DOU No. 1	100 edays Tue 30/03/21	Thu 08/07/21	Tue 30/03/21 Th	hu 08/07/21	0.63 edays 896,900	907,910,890FF		
905 5.24.6 Manufacturing and Delivery of Plant & Materials	299 days Fri 09/07/21	Tue 03/05/22	Fri 09/07/21 Tu	ue 03/05/22	479 days			
906 5.24.6.1 DOU 1	299 days Fri 09/07/21	Tue 03/05/22	Fri 09/07/21 Tu	ue 03/05/22	479 days			
907 5.24.6.1.1 Manufacturing and Factory Acceptance Test of Plant	240 days Fri 09/07/21	Sat 05/03/22	Fri 09/07/21 Sa	at 05/03/22	14 days 904	908		
908 5.24.6.1.2 Shipping and Delivery of Plant to site	45 days Sun 20/03/22	Tue 03/05/22	Sun 20/03/22 Tu	ue 03/05/22	45 days 907,913S	S-6916		
909 5.24.6.2 FRP Air Ductwork	299 days Fri 09/07/21	Tue 03/05/22	Fri 09/07/21 Tu	ue 03/05/22	479 days			
910 5.24.6.2.1 Manufacturing and Factory Acceptance Test of Plant	200 days Fri 09/07/21	Mon 24/01/22	Fri 09/07/21 M	ion 24/01/	54 days 904	911		
911 5.24.6.2.2 Shipping and Delivery of Plant to Site	45 days Sun 20/03/22	Tue 03/05/22	Sun 20/03/22 Tu	ue 03/05/22	45 days 910,913S	S-6916		<u>*</u>
912 5.24.7 Site Installation Work	201 days Thu 19/05/22	Mon 05/12/22	Thu 19/05/22 M	lon 05/12	434 days			
913 5.24.7.1 Tentative Civil Handover, DOU 1 (Rev. 5)	1 day Thu 19/05/22	Thu 19/05/22	Thu 19/05/22 Th	nu 19/05/22	0 days	916FF+45 days,908SS-	-60	<u> </u>
914 5.24.7.2 Tentative Civil Handover Date, underground air pipework for DOU 1 (by	1 day Mon 01/08/22	Mon 01/08/22	Mon 01/08/22 M	lon 01/08/	30 days	916FF+45 days		<u>e 01/08</u>
915 5.24.7.3 Commencement of E&M Installation at DOU 1	171 days Fri 17/06/22	Mon 05/12/22	Fri 17/06/22 M	lon 05/12	434 days			
916 5.24.7.3.1 Mechanical Installations for DOU 1	90 edays Fri 17/06/22	Thu 15/09/22	Fri 17/06/22 Th	nu 15/09/22	0 edays 914FF+45	da917SS+30 edays,918	ME - F x 4~	.4~
917 5.24.7.3.2 Electrical Installations for DOU 1	90 edays Sun 17/07/22	Sat 15/10/22	Sun 17/07/22 Sa		0 edays 916SS+30			
9185.24.7.3.3 Site Acceptance Test for DOU1	30 edays Sat 15/10/22	Mon 14/11/22	Sat 15/10/22 M		0 edays 916,917			
919 5.24.7.3.4 System Commissioning for DOU 1	21 edays Mon 14/11/22	Mon 05/12/22	Mon 14/11/22 M			1266		
920 5.25 Deodorization System, DOU 2A, Portion B-4 (PS 6B.2.6)	1583 days Mon 02/12/19	Mon 01/04/24	Mon 02/12/19 M		0 days			
921.5.25.1 Planned Key Date Completion Date - KD18, DOU 2A	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21 Tu		0 days			● 01/06
922.5.25.2 Planned Sectional Completion Date - Section 1, DOU 2A	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21 M		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	Mon 01/04/24 M		0 days			
9245.25.4 Selection of Plant and Materials	194 days Mon 02/12/19	Fri 12/06/20	Mon 02/12/19 Fri		0 days			
925 5.25.4.1 DOU - activated carbon filter (DOU No. 2A, No. 3A, No. 3B), C11, ref. I	194 days Mon 02/12/19	Fri 12/06/20	Mon 02/12/19 Fr		0 days			
926 5.25.4.1.1 Submission for acceptance of purchasing package	120 days Mon 02/12/19	Mon 30/03/20	Mon 02/12/19 M		0 days	927		
927.5.25.4.1.2 Invitation of quotations for purchasing package	60 days Tue 31/03/20	Fri 29/05/20	Tue 31/03/20 Fri		0 days 926	928		
928.5.25.4.1.3 Acceptance of conforming quotation (Completed)	14 days Sat 30/05/20	Fri 12/06/20	Sat 30/05/20 Fri		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	Tue 01/09/20 Sa			022 022 0225		
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	Tue 01/09/20 Sa		0 edays 928	933,936,922FF		
9315.25.6 Manufacturing and Delivery of Plant & Materials	345 days Sat 20/03/21	Sun 27/02/22	Sat 20/03/21 Su					
932.5.25.6.1 DOU 2A	345 days Sat 20/03/21	Sun 27/02/22		un 27/02/22		024		
933 5.25.6.1.1 Manufacturing and Factory Acceptance Test of Plant	300 days Sat 20/03/21	Thu 13/01/22		nu 13/01/22	0 days 930	934		
934 5.25.6.1.2 Shipping and Delivery of Plant to site	45 days Fri 14/01/22	Sun 27/02/22	Fri 14/01/22 Su			941		
935 5.25.6.2 FRP Air Ductwork	345 days Sat 20/03/21	Sun 27/02/22	Sat 20/03/21 Su			027		
936 5.25.6.2.1 Manufacturing and Factory Acceptance Test of Plant	300 days Sat 20/03/21	Thu 13/01/22		nu 13/01/22	0 days 930	937		
937 5.25.6.2.2 Shipping and Delivery of Plant to site	45 days Fri 14/01/22	Sun 27/02/22	Fri 14/01/22 Su			941		● 23/02
938 5.25.7 Tentative Civil Handover, DOU 2A (Rev. 5)	1 day Thu 23/02/23	Thu 23/02/23	Thu 23/02/23 Th		0 days			
939 5.25.8 Site Installation Work	231 days Thu 23/02/23	Thu 12/10/23	Thu 23/02/23 Th	nu 12/10/23	125 udys			
Task Milestone ♦ Project Summ	nary [ Late	Critical Sp	plit	Manual Pro	ogress	Milestone (Actual)		
wise Milestone, Tentative ® Summary Manual Sumr t: DE/2018/04	mary Critical	Progress		Slack (Float	t)	Slack		_
20/2010/01								

ID WBS Ta	sk Name	Duration between Task Start and Finish	Finish	Early Start	Early Finish	Free Slack Predecess	sors Successors	Resource Names	2020 Half 1, 2020	Half 2, 2020	2021 Half 1, 2	2021	Half 2, 2021	2022 Half 1, 2022	202 Half 2, 2022 Ha			2024 Half 1, 2024
940 5.25.8.1	Commencement of E&M Installation at DOU 2A	231 days Thu 23/02/23	Thu 12/10/23	Thu 23/02/23	Thu 12/10/23	123 days 560			N J M L				M J S N	J M M M	J S N	", 2025 M L M L 1	s N	Пап 1, 2024 м.
941 5.25.8.1.1	Mechanical Installations for DOU 2A	90 edays Thu 23/02/23	Wed 24/05/23		Wed 24/05/	0 edays 934,937	942	ME - F x 4~								+		
942 5.25.8.1.2	Electrical Installations for DOU 2A	90 edays Wed 24/05/23	Tue 22/08/23		3 Tue 22/08/23		943											
943 5.25.8.1.3	Site Acceptance Test for E&M Equip for DOU 2A	30 edays Tue 22/08/23	Thu 21/09/23		Thu 21/09/23												Total Control	
944 5.25.8.1.4	System Commissioning Test for DOU 2A	21 edays Thu 21/09/23	Thu 12/10/23	Thu 21/09/23		118.63 ed 943	1266											
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	Fri 28/08/20		0 days												
946 5.26.1	Planned Key Date Completion Date - KD1B, DOU 3A	0 days Tue 01/06/21	Tue 01/06/21		Tue 01/06/21	0 days 950FF							@ 01/06					
947 5.26.2	Planned Sectional Completion Date - Section 1, DOU 3A	0 days Mon 12/07/21	Mon 12/07/21		1 Mon 12/07/	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		4 Mon 01/04/	0 days												
149 5.26.4	Design Submissions for DOU No. 3A	234 days Fri 28/08/20	Mon 19/04/21		Mon 19/04	85 days												
950 5.26.4.1	CDS081-8 - Civil and dimensional requirements drawings for DOU No. 3		Mon 15/03/21	Fri 28/08/20		0 days	946FF											
51 5.26.4.2	CDS007-3 - Detailed Design for Deodorisation System, DOU No. 3A	200 edays Thu 01/10/20	Mon 19/04/21		Mon 19/04/	0 edays 928	954,957,947FF				,							
52 5.26.5	Manufacturing and Delivery of Plant & Materials	225 days Mon 19/04/21	Tue 30/11/21		1 Tue 30/11/21		334,337,34711						-					
53 5.26.5.1	DOU 3A	225 days Mon 19/04/21	Tue 30/11/21		1 Tue 30/11/21													
54 5.26.5.1.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 19/04/21	Sat 16/10/21		1 Sat 16/10/21	0 edays 951	955					+						
955 5.26.5.1.2	Shipping and Delivery of Plant to Site	45 edays Sat 16/10/21	Tue 30/11/21		Tue 30/11/21		962						-					
	FRP Air Ductwork	225 days Mon 19/04/21	Tue 30/11/21		1 Tue 30/11/21		302											
56 5.26.5.2 57 5.26.5.2.1		180 edays Mon 19/04/21	Sat 16/10/21		1 Tue 30/11/21 1 Sat 16/10/21	0 edays 951	958					+						
	Manufacturing and Factory Acceptance Test of Plant						958											
58 5.26.5.2.2	Shipping and Delivery of Plant to Site	45 edays Sat 16/10/21	Tue 30/11/21		Tue 30/11/21	0 edays 957	302							⊚ 19/0	05			
9 5.26.6	Tentative Civil Handover, DOU 3A (Rev. 5)	1 day Thu 19/05/22	Thu 19/05/22		Thu 19/05/22									.3/0				
50 5.26.7	Site Installation Work	171 days Tue 30/11/21	Fri 20/05/22		Fri 20/05/22	634 days												
15.26.7.1	Commencement of E&M Installation at DOU 3A	171 days Tue 30/11/21	Fri 20/05/22		Fri 20/05/22	634 days	05255.20 - 1 05	14 042 MF F 40						-				
25.26.7.1.1	Mechanical Installations for DOU 3A	120 edays Tue 30/11/21	Wed 30/03/22		Wed 30/03/	0 edays 962SS+3	963SS+30 edays,964	54,943 IVIE - F X 4"										
3 5.26.7.1.2	Electrical Installations for DOU 3A	90 edays Thu 30/12/21	Wed 30/03/22		Wed 30/03/													
45.26.7.1.3	Site Acceptance Test for E&M Equip for DOU 3A	30 edays Wed 30/03/22	Fri 29/04/22		2 Fri 29/04/22	0 edays 962,963												
5 5.26.7.1.4	System Commissioning Test for DOU 3A	21 edays Fri 29/04/22	Fri 20/05/22			629 edays 964	1266											
66 5.27	Deodorization System, DOU 3B, Portion B-5B (PS 6B.2.6)	1265 days Thu 15/10/20	Mon 01/04/24		Mon 01/04	0 days	00055 00 1 075								® 17/08			
67 5.27.1	Tentative Civil Handover Date, underground air pipework for DOU 3B (by	1 day Wed 17/08/22	Wed 17/08/22		2 Wed 17/08/	0 days	982FF+30 days,976	555-60					® 01/06		0 11/55			
68 5.27.2	Planned Key Date Completion Date - KD1B, DOU 3B	0 days Tue 01/06/21	Tue 01/06/21		Tue 01/06/21	0 days							@ 12/07					
69 5.27.3	Planned Sectional Completion Date - Section 1, DOU 3B	0 days Mon 12/07/21	Mon 12/07/21		Mon 12/07/	0 days 972FF							(2)07					
70 5.27.4	Planned Sectional Completion Date - Section 2, DOU 3B	0 days Mon 01/04/24	Mon 01/04/24		1 Mon 01/04/	0 days												
71 5.27.5	Design Submissions for DOU No. 3B	200 days Thu 15/10/20	Mon 03/05/21		Mon 03/05	71 days	075 070 05055											
72 5.27.5.1	CDS007-4 - Detailed Design for Deodorisation System, DOU No. 3B	200 edays Thu 15/10/20	Mon 03/05/21		Mon 03/05/	0 edays 928	975,978,969FF											
73 5.27.6	Manufacturing and Delivery of Plant & Materials	471 days Mon 03/05/21	Wed 17/08/22		1 Wed 17/08												-	
74 5.27.6.1	DOU 3B	471 days Mon 03/05/21	Wed 17/08/22		1 Wed 17/08							I					-	
75 5.27.6.1.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 03/05/21	Sat 30/10/21		Sat 30/10/21		976											
6 5.27.6.1.2	Shipping and Delivery of Plant to Site	60 edays Sat 18/06/22	Wed 17/08/22		Wed 17/08/		55-6982											
7 5.27.6.2	FRP Air Ductwork	456 days Mon 03/05/21	Tue 02/08/22		1 Tue 02/08/22							I						
8 5.27.6.2.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 03/05/21	Sat 30/10/21		L Sat 30/10/21		979											
9 5.27.6.2.2	Shipping and Delivery of Plant to Site	45 edays Sat 18/06/22	Tue 02/08/22			15 edays 978,9675	SS-6982							4				
0 5.27.7	Site Installation Work	171 days Wed 17/08/22	Sat 04/02/23		2 Sat 04/02/23													
31 5.27.7.1	Commencement of E&M Installation at DOU 3B	171 days Wed 17/08/22	Sat 04/02/23		2 Sat 04/02/23													
25.27.7.1.1	Mechanical Installations for DOU 3B	120 edays Wed 17/08/22	Thu 15/12/22		2 Thu 15/12/22		0 da983SS+30 edays,984	84 ME - F x 4~										
3 5.27.7.1.2	Electrical Installations for DOU 3B	90 edays Fri 16/09/22	Thu 15/12/22		Thu 15/12/22													4
45.27.7.1.3	Site Acceptance Test for E&M Equip for DOU 3B	30 edays Thu 15/12/22	Sat 14/01/23		Sat 14/01/23	0 edays 982,983												
5 5.27.7.1.4	System Commissioning Test for DOU 3B	21 edays Sat 14/01/23	Sat 04/02/23		Sat 04/02/23		1266											
36 5.28	Flowmeter and Valve Chambers, Portion B7 & B-7B (PS 6B.2.13)	1278 days Sun 01/11/20	Wed 01/05/24		Wed 01/05	0 days					-		~ 01/05					
37 5.28.1	Planned Key Date Completion Date - KD1B, Chambers	0 days Tue 01/06/21	Tue 01/06/21		Tue 01/06/21	0 days 992FF							01/06					
88 5.28.2	Planned Sectional Completion Date - Section 1, Chambers	0 days Mon 12/07/21	Mon 12/07/21		Mon 12/07/								@ 12/07					
9 5.28.3	Planned Sectional Completion Date - Section 2, Chambers	0 days Mon 01/04/24	Mon 01/04/24		1 Mon 01/04/	0 days												
0 5.28.4	Planned Sectional Completion Date - Section 4, Chambers	0 days Wed 01/05/24	Wed 01/05/24		1 Wed 01/05/	0 days					7							
15.28.5	Design Submissions for Valve and Flowmeter Chambers	210 days Sun 01/11/20	Sat 29/05/21		Sat 29/05/21	0 days					-							
2 5.28.5.1	CDS081-9 - Civil and dimensional requirements drawings for Valve and		Sat 29/05/21		1 Sat 29/05/21	0 days	987FF											
3 5.28.5.2	CDS018 - Detailed Design for Flowmeter and Valve Chambers	90 edays Sun 01/11/20	Sat 30/01/21		Sat 30/01/21		995,988FF											
4 5.28.6	Manufacturing and Delivery of Plant & Materials	225 days Sat 30/01/21	Sat 11/09/21		Sat 11/09/21													
5 5.28.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sat 30/01/21	Wed 28/07/21		Wed 28/07/	0 days 993	996											
96 5.28.6.2	Shipping and Delivery of Plant to Site	45 days Thu 29/07/21	Sat 11/09/21	Thu 29/07/21	Sat 11/09/21	0 days 995	1000											
97 5.28.7	Tentative Civil Handover, Chambers (Rev. 5)	1 day Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days								⊕ 19/0	5			
98 5.28.8	Site Installation Work	150 days Sun 12/09/21	Tue 08/02/22	Sun 12/09/21	Tue 08/02/22	734 days								7				
Та	sk Milestone $lacktriangle$ Project Su	mmary 1 Late	Critical	Split	· · · · · Manual P	rogress	Milestone (Actual)	*										
Ta	Willestone Project St		Critical		Wanual P	-3.033	estone (Actual)	-										
/2018/04	ilestone, Tentative   Summary  Manual Si	immary Critical	Progres	S	Slack (Flo	at)	Slack											

1000   1000   5.28.8.1.1   Installation   1001   1001   5.28.8.1.2   Cables lat   1002   1002   5.29   Underground Pip B-98 (PS 6B.2.22   1004   1004   5.29.2   Planned Section   1005   5.29.3   Planned Section   1005   5.29.4   Design Submit   1007   5.29.4.1   CDS015 - Dt   1008   1008   5.29.4.2   CDS016 - Dt   1008   5.29.5   Manufacturin   1010   5.29.5.1   Manufacturin   1010   5.29.5.1   Manufacturin   1011   5.29.5.2   Shipping an   1012   5.29.5.2   Shipping an   1012   5.29.5.1   Temporar   1014   5.29.7.1   Commencen   1015   5.29.7.1.1   Temporar   1016   5.29.7.1.2   Pipe Layin   1016   5.29.7.1.2   Pipe Layin   1017   5.29.7.1.3   Pressure T   1018   5.29.7.1.4   Make Good   1019   5.30   Temporary Filtra   1019   5.30   Temporary Filtra   1021   5.30.1.1   Mis - filtrate   1022   5.30.1.1.1   Submission   1023   5.30.1.2   Invitation   1024   1024   5.30.1.2   Invitation   1025   5.30.1.2   Invitation   1026   5.30.1.2.1   Submission   1027   5.30.1.2.2   Invitation   1029   5.30.1.3   Acceptance   1029   5.30.1.3   Accep	ation of valves and Flowmeters Installation at Chambers ation of valves and flowmeters  laying and terminations  Pipework, Modification and Connection Works, Portion	Duration between Task Start and Finish  150 days Sun 12/09/21  90 days Sun 12/09/21  60 days Sun 12/09/21  1161 days Mon 01/03/21  0 days Tue 01/06/21  0 days Mon 12/07/21  0 days Wed 01/05/24  90 days Mon 01/03/21  50 edays Mon 01/03/21  1079 days Tue 20/04/21  180 days Tue 20/04/21  180 days Tue 20/04/21  45 days Sun 18/02/24  1 day Thu 18/04/24  16 days Fri 19/04/24  16 days Fri 19/04/24  3 days Fri 19/04/24  3 days Fri 19/04/24  3 days Thu 02/05/24  450 days Mon 02/03/20  196 days Mon 02/03/20  29 days Mon 02/03/20  29 days Mon 02/03/20  14 days Thu 30/04/20  73 days Mon 02/03/20  29 days Mon 02/03/20  29 days Mon 02/03/20  30 days Tue 31/03/20  29 days Mon 02/03/20  29 days Mon 02/03/20  30 days Tue 31/03/20  29 days Mon 02/03/20  30 days Tue 31/03/20	Finish  Tue 08/02/22  Fri 10/12/21  Tue 08/02/22  Sat 04/05/24  Tue 01/06/21  Mon 12/07/21  Wed 01/05/24  Sun 30/05/21  Tue 20/04/21  Tue 02/04/24  Sat 16/10/21  Tue 02/04/24  Thu 18/04/24  Sat 04/05/24  Sun 28/04/24  Wed 01/05/24  Sun 28/04/25  Wed 01/05/24  Sun 13/05/20  Wed 13/05/20  Wed 13/05/20  Wed 13/05/20  Wed 13/05/20  Wed 13/05/20  Wed 13/05/20  Wed 13/05/20  Wed 13/05/20  Mon 30/03/20	Sun 12/09/21 Sat 11/12/21 Mon 01/03/21 Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Mon 01/03/21 Mon 01/03/21 Tue 20/04/21 Tue 20/04/21 Sun 18/02/24 Thu 18/04/24 Fri 19/04/24 Fri 19/04/24 Mon 22/04/24 Mon 22/04/24 Mon 02/05/24 Mon 02/03/20 Mon 02/03/20 Mon 02/03/20 Tue 31/03/20	Tue 08/02/22 Fri 10/12/21 Tue 08/02/22 Sat 04/05/24 Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sun 30/05/21 Sun 30/05/21 Tue 20/04/21 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Sat 04/05/24 Sat 04/05/24 Sun 21/04/24 Sun 28/04/24 Wed 01/05/24 Sat 04/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20	0 days 996 729 days 1000 0 days 0 days 1007FF 0 days 1008FF 0 days 1018FF 3 days	1001 1266 1003FF 1010,1004FF 1011 1011 25:1016 1011SS-60 edays,10	Resource Names —  ME - C x 4~  EE - A x 4~6
00         1000 5.28.8.1.1         Installation           01         1001 5.28.8.1.2         cables late           02         1002 5.29         Underground Pipe           8-98 (PS 6B.2.22         3           03         1003 5.29.1         Planned Key D           04         1004 5.29.2         Planned Section           05         1005 5.29.3         Planned Section           06         1006 5.29.4         Design Submin           07         1007 5.29.4.1         CDS015 - Do           08         1008 5.29.4.2         CDS016 - Do           09         1009 5.29.5         Manufacturin           10         1010 5.29.5.1         Manufacturin           11         1011 5.29.5.2         Shipping an           12         1012 5.29.6         Tentative Civil           13         1013 5.29.7         Site Installation           14         1014 5.29.7.1         Commencent           15         1015 5.29.7.1.2         Pipe Layin           16         1016 5.29.7.1.2         Pipe Layin           17         1077 5.29.7.1.3         Pressure T           18         1018 5.29.7.1.4         Make Goo           19         1019 5.30         Tempor	ation of valves and flowmeters  laying and terminations  Pipework, Modification and Connection Works, Portion (22)  y Date Completion Date - KD18, UU (22)  y Date Completion Date - Section 1, Underground Pipework (23)  ctional Completion Date - Section 4, Underground Pipework (24)  missions  Detailed Design for Underground Pipework Modification and (25)  Detailed Design for Temporary Pumping System for maintainifying and Delivery of Plant & Materials (25)  turing and Factory Acceptance Test of Plant (25)  and Delivery of Plant to Site (25)  Ition (26)  Ition (27)  Ition (27)  Ition (28)  Ition (29)  Ition (29)  Ition (20)	150 days Sun 12/09/21 90 days Sun 12/09/21 60 days Sun 12/09/21 60 days Sun 12/09/21 1161 days Mon 01/03/21 0 days Tue 01/06/21 0 days Mon 12/07/21 0 days Wed 01/05/24 90 days Mon 01/03/21 50 edays Mon 01/03/21 1079 days Tue 20/04/21 180 days Tue 20/04/21 45 days Sun 18/02/24 1 day Thu 18/04/24 16 days Fri 19/04/24 16 days Fri 19/04/24 3 days Fri 19/04/24 3 days Fri 19/04/24 3 days Mon 02/03/2 3 days Thu 02/05/24 450 days Mon 02/03/20 196 days Mon 02/03/20 29 days Mon 02/03/20 30 days Tue 31/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 73 days Mon 02/03/20 29 days Mon 02/03/20 73 days Mon 02/03/20 29 days Mon 02/03/20 73 days Mon 02/03/20	Fri 10/12/21 Tue 08/02/22 Sat 04/05/24  Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Sun 30/05/21 Tue 20/04/21 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Thu 18/04/24 Sat 04/05/24 Sun 21/04/24 Sun 21/04/24 Sun 21/04/24 Wed 01/05/24 Sun 21/04/24 Wed 01/05/24 Sun 21/04/24 Wed 01/05/24 Sun 21/04/24 Wed 01/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20 Wed 13/05/20 Mon 30/03/20	Sun 12/09/21 Sat 11/12/21 Mon 01/03/21 Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Mon 01/03/21 Mon 01/03/21 Tue 20/04/21 Tue 20/04/21 Sun 18/02/24 Thu 18/04/24 Fri 19/04/24 Fri 19/04/24 Fri 19/04/24 Mon 22/04/24 Mon 22/04/24 Mon 02/03/20 Mon 02/03/20 Mon 02/03/20 Tue 31/03/20 Thu 30/04/20 Mon 02/03/20	Fri 10/12/21 Tue 08/02/22 Sat 04/05/24  Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sun 30/05/21 Sun 30/05/21 Tue 02/04/24 Tue 02/04/24 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Sat 04/05/24 Sat 04/05/24 Sun 28/04/24 Wed 01/05/24 Sat 04/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20	0 days 996 729 days 1000 0 days 0 days 1007FF 0 days 1018FF 3 days 2.38 edays 0 edays 16 days 156 days 1010,101 0 days 0 days 0 days 0 days 0 days 1012 0 days 1015,1012 0 days 1016 0 days 1017 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	1003FF 1010,1004FF 1011 1011 1015: 1016 1017 1018 1005FF	ME - C x 4** EE - A x 4**6
30         1000         5.28.8.1.1         Installation           31         1001         5.28.8.1.2         cables late           32         1002         5.29         Underground Pipe           33         1003         5.29.1         Planned Key D           34         1004         5.29.2         Planned Section           35         1005         5.29.3         Planned Section           36         1006         5.29.4         Design Submin           37         1007         5.29.4.1         CDS016 - Do           38         1008         5.29.4.2         CDS016 - Do           39         1009         5.29.5         Manufacturin           40         1010         5.29.5.1         Manufacturin           41         1011         5.29.5.2         Shipping an           42         1012         5.29.5.1         Tentative Civil           43         1013         5.29.7.1.1         Temporar           44         1014         5.29.7.1.2         Pipe Layin           47         1017         5.29.7.1.3         Pressure T           48         1018         5.29.7.1.4         Make Goo           49         1019	ation of valves and flowmeters  laying and terminations  Pipework, Modification and Connection Works, Portion (22)  y Date Completion Date - KD18, UU (22)  y Date Completion Date - Section 1, Underground Pipework (23)  ctional Completion Date - Section 4, Underground Pipework (24)  missions  Detailed Design for Underground Pipework Modification and (25)  Detailed Design for Temporary Pumping System for maintainifying and Delivery of Plant & Materials (25)  turing and Factory Acceptance Test of Plant (25)  and Delivery of Plant to Site (25)  Ition (26)  Ition (27)  Ition (27)  Ition (28)  Ition (29)  Ition (29)  Ition (20)	90 days Sun 12/09/21 60 days Sat 11/12/21 1161 days Mon 01/03/21 0 days Tue 01/06/21 0 days Mon 12/07/21 0 days Wed 01/05/24 90 days Mon 01/03/21 50 edays Mon 01/03/21 1079 days Tue 20/04/21 180 days Tue 20/04/21 45 days Sun 18/02/24 1 day Thu 18/04/24 16 days Fri 19/04/24 3 days Fri 19/04/24 3 days Fri 19/04/24 3 days Mon 02/03/20 196 days Mon 02/03/20 29 days Mon 02/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 73 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20	Fri 10/12/21 Tue 08/02/22 Sat 04/05/24  Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Sun 30/05/21 Tue 20/04/21 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Thu 18/04/24 Sat 04/05/24 Sun 21/04/24 Sun 21/04/24 Sun 21/04/24 Wed 01/05/24 Sun 21/04/24 Wed 01/05/24 Sun 21/04/24 Wed 01/05/24 Sun 21/04/24 Wed 01/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20 Wed 13/05/20 Mon 30/03/20	Sun 12/09/21 Sat 11/12/21 Mon 01/03/21 Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Mon 01/03/21 Mon 01/03/21 Tue 20/04/21 Tue 20/04/21 Sun 18/02/24 Thu 18/04/24 Fri 19/04/24 Fri 19/04/24 Fri 19/04/24 Mon 22/04/24 Mon 22/04/24 Mon 02/03/20 Mon 02/03/20 Mon 02/03/20 Tue 31/03/20 Thu 30/04/20 Mon 02/03/20	Fri 10/12/21 Tue 08/02/22 Sat 04/05/24  Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sun 30/05/21 Sun 30/05/21 Tue 02/04/24 Tue 02/04/24 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Sat 04/05/24 Sat 04/05/24 Sun 28/04/24 Wed 01/05/24 Sat 04/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20	0 days 996 729 days 1000 0 days 0 days 1007FF 0 days 1018FF 3 days 2.38 edays 0 edays 16 days 156 days 1010,101 0 days 0 days 0 days 0 days 0 days 1012 0 days 1015,1012 0 days 1016 0 days 1017 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	1003FF 1010,1004FF 1011 1011 1015: 1016 1017 1018 1005FF	EE - A x 4~6
11 1001 5.28.8.1.2 Cables lat   2	Pipework, Modification and Connection Works, Portion (22)  y Date Completion Date - KD1B, UU  ctional Completion Date - Section 1, Underground Pipework (22)  the ctional Completion Date - Section 4, Underground Pipework (23)  Detailed Design for Underground Pipework Modification and (24)  Detailed Design for Temporary Pumping System for maintaining and Delivery of Plant & Materials (24)  turing and Factory Acceptance Test of Plant (25)  and Delivery of Plant to Site (25)  Ition (26)  Ition (27)  Ition (27)  Ition (28)  Ition (28)  Ition (29	1161 days Mon 01/03/21  0 days Tue 01/06/21 0 days Mon 12/07/21 0 days Wed 01/05/24 90 days Mon 01/03/21 90 edays Mon 01/03/21 50 edays Mon 01/03/21 1079 days Tue 20/04/21 180 days Tue 20/04/21 45 days Sun 18/02/24 1 day Thu 18/04/24 16 days Fri 19/04/24 3 days Fri 19/04/24 7 days Mon 22/04/24 3 days Fri 19/04/24 7 days Mon 22/04/24 3 days Thu 02/05/24 450 days Mon 02/03/20 196 days Mon 02/03/20 29 days Mon 02/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20	Tue 08/02/22 Sat 04/05/24  Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Sun 30/05/21 Tue 20/04/21 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Thu 18/04/24 Sat 04/05/24 Sat 04/05/24 Sun 21/04/24 Wed 01/05/24 Sat 04/05/24 Sun 21/04/24 Wed 01/05/24 Sun 21/04/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20 Wed 13/05/20 Mon 30/03/20	Mon 01/03/21  Tue 01/06/21  Mon 12/07/21  Wed 01/05/24  Mon 01/03/21  Mon 01/03/21  Tue 20/04/21  Tue 20/04/21  Sun 18/02/24  Thu 18/04/24  Fri 19/04/24  Fri 19/04/24  Mon 22/04/24  Mon 29/04/24  Thu 02/05/24  Mon 02/03/20  Mon 02/03/20  Tue 31/03/20  Thu 30/04/20  Mon 02/03/20	Sat 04/05/24  Tue 01/06/21  Mon 12/07/  Wed 01/05/  Sun 30/05/21  Sun 30/05/21  Tue 20/04/21  Tue 02/04/24  Sat 16/10/21  Tue 02/04/24  Sat 04/05/24  Sat 04/05/24  Sun 21/04/24  Sun 28/04/24  Wed 01/05/24  Sat 04/05/24  Tue 25/05/21  Sun 13/09/20  Wed 13/05/20  Wed 13/05/20  Wed 13/05/20	0 days 0 days 1007FF 0 days 1008FF 0 days 1018FF 3 days 2.38 edays 0 edays 16 days 854 days 1008 16 days 0 days 0 days 0 days 0 days 0 days 0 days 1015,1011 0 days 1016 0 days 1017 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	1003FF 1010,1004FF 1011 25:1016 1011SS-60 edays,10 1016 1017 1018 1005FF	
1002   1002   1002   1002   1003	Pipework, Modification and Connection Works, Portion (22)  y Date Completion Date - KD1B, UU  ctional Completion Date - Section 1, Underground Pipework (22)  the ctional Completion Date - Section 4, Underground Pipework (23)  Detailed Design for Underground Pipework Modification and (24)  Detailed Design for Temporary Pumping System for maintaining and Delivery of Plant & Materials (24)  turing and Factory Acceptance Test of Plant (25)  and Delivery of Plant to Site (25)  Ition (26)  Ition (27)  Ition (27)  Ition (28)  Ition (28)  Ition (29	1161 days Mon 01/03/21  0 days Tue 01/06/21 0 days Mon 12/07/21 0 days Wed 01/05/24 90 days Mon 01/03/21 90 edays Mon 01/03/21 50 edays Mon 01/03/21 1079 days Tue 20/04/21 180 days Tue 20/04/21 45 days Sun 18/02/24 1 day Thu 18/04/24 16 days Fri 19/04/24 3 days Fri 19/04/24 7 days Mon 22/04/24 3 days Fri 19/04/24 7 days Mon 22/04/24 3 days Thu 02/05/24 450 days Mon 02/03/20 196 days Mon 02/03/20 29 days Mon 02/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20	Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Sun 30/05/21 Sun 30/05/21 Tue 20/04/21 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Thu 18/04/24 Sat 04/05/24 Sun 21/04/24 Wed 01/05/24 Sun 28/04/24 Wed 01/05/24 Sun 28/04/24 Wed 01/05/24 Sun 3/05/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20	Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Mon 01/03/21 Mon 01/03/21 Tue 20/04/21 Tue 20/04/21 Sun 18/02/24 Thu 18/04/24 Fri 19/04/24 Mon 22/04/24 Mon 22/04/24 Mon 02/05/24 Mon 02/03/20 Mon 02/03/20 Mon 02/03/20 Tue 31/03/20 Thu 30/04/20 Mon 02/03/20	Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sun 30/05/21 Sun 30/05/21 Tue 20/04/21 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Thu 18/04/24 Sat 04/05/24 Sun 21/04/24 Sun 28/04/24 Wed 01/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20	0 days 1007FF 0 days 1008FF 0 days 1018FF 3 days 2.38 edays 0 edays 16 days 854 days 1008 16 days 0 days 0 days 0 days 1015,1012 0 days 1015,1013 0 days 1016 0 days 1017 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	1010,1004FF  1011 12S:1016  1011SS-60 edays,10  1016  1017  1018  1005FF	015
B-98 (PS 6B.2.22 33 1003 5.29.1 Planned Key D 44 1004 5.29.2 Planned Sectic 55 1005 5.29.3 Planned Sectic 66 1006 5.29.4 Design Submi 77 1007 5.29.4.1 CDS015 - D 88 1008 5.29.4.2 CDS016 - D 89 1009 5.29.5 Manufacturi 1010 5.29.5.1 Manufacturi 1 1011 5.29.5.2 Shipping an 1 1012 5.29.6 Tentative Civil 1 1014 5.29.7.1 Commence 1 1015 5.29.7.1.1 Temporar 1 1015 5.29.7.1.1 Temporar 1 1016 5.29.7.1.2 Pipe Layin 1 1017 5.29.7.1.3 Pressure T 8 1018 5.29.7.1.4 Make Goo 9 1019 5.30 Temporary Filtra 1 1021 5.30.1.1 Selection of S 1 1021 5.30.1.1 Submissio 1 1021 5.30.1.2 Invitation 1 1024 5.30.1.1.3 Acceptane 1 1025 5.30.1.2.1 Submissio 1 1027 5.30.1.2.2 Invitation 1 1028 5.30.1.2.1 Submissio 1 1029 5.30.1.2.1 Submissio 1 1029 5.30.1.2.2 Invitation 1 1029 5.30.1.2.3 Acceptane 1 1029 5.30.1.3 Mis - Pipew 1 1029 5.30.1.3 Submissio 1 1031 5.30.1.3.1 Submissio 1 1031 5.30.1.3.1 Submissio 1 1031 5.30.1.3.1 Submissio 1 1031 5.30.1.3.1 Submissio 1 1031 5.30.1.3.1 Submissio 1 1031 5.30.1.3.2 Invitatior 2 1032 5.30.1.3.1 Submissio 1 1031 5.30.1.3.2 Invitatior 2 1032 5.30.1.3.3 Acceptan	y Date Completion Date - KD18, UU  titional Completion Date - Section 1, Underground Pipework  ctional Completion Date - Section 4, Underground Pipework  missions  Detailed Design for Underground Pipework Modification and  Detailed Design for Temporary Pumping System for maintaini  ring and Delivery of Plant & Materials  turing and Factory Acceptance Test of Plant  and Delivery of Plant to Site  ivil Handover, Road (Rev. 5)  stion  tement of underground pipework modification and connection wor  rary Flow Diversion and Road Excavation Work  ying and connection works  te Tests  siood  trate Lifting Well and Eq. Tank, Portion B-38 (PS 68.2.16)  f Suppliers for major plant and materials and Civil Subcontract  tel lift pumps and filtrate transfer pumps, C11, ref. EQT011  sion for acceptance of purchasing package  on of quotations for purchasing package  ance of conforming quotation and acceptance for Manufacture (Com  trumentations  ssion for acceptance of purchasing package  ion of quotations for purchasing package	0 days Tue 01/06/21 0 days Mon 12/07/21 0 days Mon 01/05/24 90 days Mon 01/03/21 90 edays Mon 01/03/21 50 edays Mon 01/03/21 1079 days Tue 20/04/21 180 days Tue 20/04/21 45 days Sun 18/02/24 1 day Thu 18/04/24 16 days Fri 19/04/24 3 days Fri 19/04/24 7 days Mon 02/04/24 3 days Fri 19/04/24 3 days Fri 19/04/24 3 days Mon 02/05/24 450 days Mon 02/03/20 196 days Mon 02/03/20 29 days Mon 02/03/20 30 days Tue 31/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20 29 days Mon 02/03/20	Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Sun 30/05/21 Sun 30/05/21 Tue 20/04/21 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Thu 18/04/24 Sat 04/05/24 Sun 21/04/24 Wed 01/05/24 Sun 28/04/24 Wed 01/05/24 Sun 28/04/24 Wed 01/05/24 Sun 3/05/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20	Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Mon 01/03/21 Mon 01/03/21 Tue 20/04/21 Tue 20/04/21 Sun 18/02/24 Thu 18/04/24 Fri 19/04/24 Mon 22/04/24 Mon 22/04/24 Mon 02/05/24 Mon 02/03/20 Mon 02/03/20 Mon 02/03/20 Tue 31/03/20 Thu 30/04/20 Mon 02/03/20	Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sun 30/05/21 Sun 30/05/21 Tue 20/04/21 Tue 02/04/24 Sat 16/10/21 Tue 02/04/24 Thu 18/04/24 Sat 04/05/24 Sun 21/04/24 Sun 28/04/24 Wed 01/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Wed 13/05/20 Wed 13/05/20	0 days 1008FF 0 days 1018FF 3 days 2.38 edays 0 edays 16 days 854 days 1008 16 days 0 days 0 days 0 days 0 days 1012 0 days 1015,1013 0 days 1016 0 days 1017 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	1010,1004FF  1011 12S:1016  1011SS-60 edays,10  1016  1017  1018  1005FF	015
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13         1013         5.29.7         Site Installation           14         1014         5.29.7.1.1         Commencent           15         1015         5.29.7.1.2         Pipe Layin           16         1016         5.29.7.1.3         Pressure T           17         1017         5.29.7.1.4         Make Good           18         1018         5.29.7.1.4         Make Good           19         1019         5.30         Temporary Filtra           20         1020         5.30.1.1         Mis - filtrate           21         1021         5.30.1.1         Submission           22         1022         5.30.1.1.2         Invitation           24         1024         5.30.1.2         Mis - Instru           25         1025         5.30.1.2         Submission           27         1027         5.30.1.2.1         Submission           28         1028         5.30.1.2.2         Invitation           29         1029         5.30.1.3         Acceptan           30         1030         5.30.1.3.1         Submission           31         1031         5.30.1.3.3         Acceptan           32         1023 <td< td=""><td>tition  tement of underground pipework modification and connection work  trary Flow Diversion and Road Excavation Work  ying and connection works  te Tests  food  trate Lifting Well and Eq. Tank, Portion B-3B (PS 6B.2.16)  f Suppliers for major plant and materials and Civil Subcontract  stel lift pumps and filtrate transfer pumps, C11, ref. EQT011  stion for acceptance of purchasing package  on of quotations for purchasing package  ance of conforming quotation and acceptance for Manufacture (Combinations)  trumentations  ssion for acceptance of purchasing package  ion of quotations for purchasing package</td><td>16 days Fri 19/04/24  16 days Fri 19/04/24  3 days Fri 19/04/24  7 days Mon 22/04/24  3 days Mon 29/04/24  3 days Thu 02/05/24  450 days Mon 02/03/20  196 days Mon 02/03/20  73 days Mon 02/03/20  29 days Mon 02/03/20  14 days Thu 30/04/20  73 days Mon 02/03/20  29 days Mon 02/03/20</td><td>Sat 04/05/24 Sat 04/05/24 Sun 21/04/24 Sun 28/04/24 Wed 01/05/24 Sat 04/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Mon 30/03/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20</td><td>Fri 19/04/24 Fri 19/04/24 Fri 19/04/24 Mon 22/04/24 Mon 29/04/24 Thu 02/05/24 Mon 02/03/20 Mon 02/03/20 Mon 02/03/20 Tue 31/03/20 Thu 30/04/20 Mon 02/03/20</td><td>Sat 04/05/24 Sat 04/05/24 Sun 21/04/24 Sun 28/04/24 Wed 01/05/24 Sat 04/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Wed 29/04/20 Wed 13/05/20</td><td>0 days 0 days 1012 0 days 1015,1013 0 days 1016 0 days 1017 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 1022 0 days 1023</td><td>1016 1017 1018 1005FF</td><td>015</td></td<>	tition  tement of underground pipework modification and connection work  trary Flow Diversion and Road Excavation Work  ying and connection works  te Tests  food  trate Lifting Well and Eq. Tank, Portion B-3B (PS 6B.2.16)  f Suppliers for major plant and materials and Civil Subcontract  stel lift pumps and filtrate transfer pumps, C11, ref. EQT011  stion for acceptance of purchasing package  on of quotations for purchasing package  ance of conforming quotation and acceptance for Manufacture (Combinations)  trumentations  ssion for acceptance of purchasing package  ion of quotations for purchasing package	16 days Fri 19/04/24  16 days Fri 19/04/24  3 days Fri 19/04/24  7 days Mon 22/04/24  3 days Mon 29/04/24  3 days Thu 02/05/24  450 days Mon 02/03/20  196 days Mon 02/03/20  73 days Mon 02/03/20  29 days Mon 02/03/20  14 days Thu 30/04/20  73 days Mon 02/03/20  29 days Mon 02/03/20	Sat 04/05/24 Sat 04/05/24 Sun 21/04/24 Sun 28/04/24 Wed 01/05/24 Sat 04/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Mon 30/03/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20	Fri 19/04/24 Fri 19/04/24 Fri 19/04/24 Mon 22/04/24 Mon 29/04/24 Thu 02/05/24 Mon 02/03/20 Mon 02/03/20 Mon 02/03/20 Tue 31/03/20 Thu 30/04/20 Mon 02/03/20	Sat 04/05/24 Sat 04/05/24 Sun 21/04/24 Sun 28/04/24 Wed 01/05/24 Sat 04/05/24 Tue 25/05/21 Sun 13/09/20 Wed 13/05/20 Wed 29/04/20 Wed 13/05/20	0 days 0 days 1012 0 days 1015,1013 0 days 1016 0 days 1017 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 1022 0 days 1023	1016 1017 1018 1005FF	015
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20 1020 5.30.1 Selection of St 21 1021 5.30.1.1 Mis - filtrate 22 1022 5.30.1.1.1 Submissio 23 1023 5.30.1.1.2 Invitation 24 1024 5.30.1.1.3 Acceptanc 25 1025 5.30.1.2 Mis - Instru 26 1026 5.30.1.2.1 Submissio 27 1027 5.30.1.2.2 Invitation 28 1028 5.30.1.2.3 Acceptan 29 1029 5.30.1.3 Mis - Pipew 30 1030 5.30.1.3.1 Submissio 31 1031 5.30.1.3.2 Invitation 32 1032 5.30.1.3.3 Acceptan 33 1033 5.30.1.3.3 Acceptan 34 1033 5.30.1.3.4 Mis - Valve	f Suppliers for major plant and materials and Civil Subcontract site lift pumps and filtrate transfer pumps, C11, ref. EQT011 sion for acceptance of purchasing package on of quotations for purchasing package ance of conforming quotation and acceptance for Manufacture (Com trumentations ssion for acceptance of purchasing package ion of quotations for purchasing package	196 days Mon 02/03/20 73 days Mon 02/03/20 29 days Mon 02/03/20 30 days Tue 31/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20	Sun 13/09/20 Wed 13/05/20 Mon 30/03/20 Wed 29/04/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20	Mon 02/03/20 Mon 02/03/20 Mon 02/03/20 Tue 31/03/20 Thu 30/04/20 Mon 02/03/20	Sun 13/09/20 Wed 13/05/20 Mon 30/03/20 Wed 29/04/20 Wed 13/05/20	0 days 0 days 0 days 0 days 1022 0 days 1023	1024	
21 1021 5.30.1.1 Mis-filtrate 22 1022 5.30.1.1.1 Submissio 23 1023 5.30.1.1.2 Invitation 24 1024 5.30.1.1.3 Acceptanc 25 1025 5.30.1.2 Mis-Instru 26 1026 5.30.1.2.1 Submissio 27 1027 5.30.1.2.2 Invitation 28 1028 5.30.1.2.3 Acceptan 29 1029 5.30.1.3 Mis-Pipew 30 1030 5.30.1.3.1 Submissio 31 1031 5.30.1.3.2 Invitation 32 1032 5.30.1.3.3 Acceptan 33 1033 5.30.1.3.3 Acceptan	ate lift pumps and filtrate transfer pumps, C11, ref. EQT011 sion for acceptance of purchasing package on of quotations for purchasing package ance of conforming quotation and acceptance for Manufacture (Com trumentations ssion for acceptance of purchasing package ion of quotations for purchasing package	73 days Mon 02/03/20 29 days Mon 02/03/20 30 days Tue 31/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20	Wed 13/05/20 Mon 30/03/20 Wed 29/04/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20	Mon 02/03/20 Mon 02/03/20 Tue 31/03/20 Thu 30/04/20 Mon 02/03/20	Wed 13/05/20 Mon 30/03/20 Wed 29/04/20 Wed 13/05/20	0 days 0 days 0 days 1022 0 days 1023	1024	
22 1022 5.30.1.1.1 Submissio 23 1023 5.30.1.1.2 Invitation 24 1024 5.30.1.1.3 Acceptanc 25 1025 5.30.1.2 Mis - Instru 26 1026 5.30.1.2.1 Submissio 27 1027 5.30.1.2.2 Invitatior 28 1028 5.30.1.2.3 Acceptan 29 1029 5.30.1.3 Mis - Pipew 30 1030 5.30.1.3.1 Submissio 31 1031 5.30.1.3.2 Invitatior 32 1032 5.30.1.3.3 Acceptan 33 1033 5.30.1.4 Mis - Valve	sion for acceptance of purchasing package on of quotations for purchasing package ance of conforming quotation and acceptance for Manufacture (Com trumentations ssion for acceptance of purchasing package ion of quotations for purchasing package	29 days Mon 02/03/20 30 days Tue 31/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20	Mon 30/03/20 Wed 29/04/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20	Mon 02/03/20 Tue 31/03/20 Thu 30/04/20 Mon 02/03/20	Mon 30/03/20 Wed 29/04/20 Wed 13/05/20	0 days 0 days 1022 0 days 1023	1024	
23 1023 5.30.1.1.2 Invitation 24 1024 5.30.1.1.3 Acceptanc 25 1025 5.30.1.2 Mis - Instru 26 1026 5.30.1.2.1 Submission 27 1027 5.30.1.2.2 Invitation 28 1028 5.30.1.2.3 Acceptanc 29 1029 5.30.1.3 Mis - Pipew 30 1030 5.30.1.3.1 Submission 31 1031 5.30.1.3.2 Invitation 32 1032 5.30.1.3.3 Acceptanc 33 1033 5.30.1.4 Mis - Valve	on of quotations for purchasing package ance of conforming quotation and acceptance for Manufacture (Com trumentations ssion for acceptance of purchasing package ion of quotations for purchasing package	30 days Tue 31/03/20 14 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20	Wed 29/04/20 Wed 13/05/20 Wed 13/05/20 Mon 30/03/20	Tue 31/03/20 Thu 30/04/20 Mon 02/03/20	Wed 29/04/20 Wed 13/05/20	0 days 1023	1024	
Acceptance 1024 5.30.1.1.3 Acceptance 105 1025 5.30.1.2 Mis - Instru 106 1026 5.30.1.2.1 Submission 107 1027 5.30.1.2.2 Invitation 108 1028 5.30.1.2.3 Acceptance 109 1029 5.30.1.3 Mis - Pipew 100 1030 5.30.1.3.1 Submission 101 1031 5.30.1.3.2 Invitation 102 1032 5.30.1.3.3 Acceptance 103 1033 5.30.1.4 Mis - Valve	ance of conforming quotation and acceptance for Manufacture (Com trumentations ssion for acceptance of purchasing package ion of quotations for purchasing package	14 days Thu 30/04/20 73 days Mon 02/03/20 29 days Mon 02/03/20	Wed 13/05/20 Wed 13/05/20 Mon 30/03/20	Thu 30/04/20 Mon 02/03/20	Wed 13/05/20	0 days 1023		
25 1025 5.30.1.2 Mis - Instru 26 1026 5.30.1.2.1 Submissia 27 1027 5.30.1.2.2 Invitation 28 1028 5.30.1.2.3 Acceptan 29 1029 5.30.1.3 Mis - Pipew 30 1030 5.30.1.3.1 Submissia 31 1031 5.30.1.3.2 Invitation 32 1032 5.30.1.3.3 Acceptan 33 1033 5.30.1.4 Mis - Valve	trumentations ssion for acceptance of purchasing package ion of quotations for purchasing package	73 days Mon 02/03/20 29 days Mon 02/03/20	Wed 13/05/20 Mon 30/03/20	Mon 02/03/20				
26 1026 5.30.1.2.1 Submission 27 1027 5.30.1.2.2 Invitation 28 1028 5.30.1.2.3 Acceptan 29 1029 5.30.1.3 Mis - Pipew 30 1030 5.30.1.3.1 Submission 31 1031 5.30.1.3.2 Invitation 32 1032 5.30.1.3.3 Acceptan 33 1033 5.30.1.4 Mis - Valve	ssion for acceptance of purchasing package ion of quotations for purchasing package	29 days Mon 02/03/20	Mon 30/03/20		20,30			
27 1027 5.30.1.2.2 Invitation 28 1028 5.30.1.2.3 Acceptan 29 1029 5.30.1.3 Mis - Pipew 30 1030 5.30.1.3.1 Submission 31 1031 5.30.1.3.2 Invitation 32 1032 5.30.1.3.3 Acceptan 33 1033 5.30.1.4 Mis - Valve	ion of quotations for purchasing package				Mon 30/03/	0 days	1027	
28 1028 5.30.1.2.3 Acceptan 29 1029 5.30.1.3 Mis - Pipew 30 1030 5.30.1.3.1 Submissio 31 1031 5.30.1.3.2 Invitation 32 1032 5.30.1.3.3 Acceptan 33 1033 5.30.1.4 Mis - Valve		35 44/5 (45 24/ 55/ 25	Wed 29/04/20	Tue 31/03/20		0 days 1026	1028	
29 1029 5.30.1.3 Mis - Pipew 30 1030 5.30.1.3.1 Submission 31 1031 5.30.1.3.2 Invitation 32 1032 5.30.1.3.3 Acceptan 33 1033 5.30.1.4 Mis - Valve	ance of conforming quotation and acceptance for Manufactur	14 days Thu 30/04/20	Wed 13/05/20	Thu 30/04/20		0 days 1027	1043,1049	
30 1030 5.30.1.3.1 Submission 31 1031 5.30.1.3.2 Invitation 32 1032 5.30.1.3.3 Acceptan 33 1033 5.30.1.4 Mis - Valve	ework (To be provided by Mechanical Sub-Contactor)	42 days Mon 03/08/20	Sun 13/09/20	Mon 03/08/20		0 days	2013,2013	
11 10315.30.1.3.2 Invitation 12 10325.30.1.3.3 Acceptan 13 10335.30.1.4 Mis-Valve	ssion for acceptance of purchasing package	7 days Mon 03/08/20	Sun 09/08/20	Mon 03/08/20		0 days	1031	
1032 5.30.1.3.3 Acceptan 1033 5.30.1.4 Mis - Valve	ion of quotations for purchasing package	14 days Mon 10/08/20	Sun 23/08/20	Mon 10/08/20		0 days 1030	1032	
33 1033 5.30.1.4 Mis - Valve	cance of conforming quotation and acceptance for Manufactur	21 days Mon 24/08/20	Sun 13/09/20	Mon 24/08/20		0 days 1031	1043,1052	
	ve (To be provided by Mechanical Sub-Contractor)	42 days Mon 03/08/20	Sun 13/09/20		Sun 13/09/20	0 days	1043,1032	
	ssion for acceptance of purchasing package	7 days Mon 03/08/20	Sun 09/08/20	Mon 03/08/20		0 days	1035	
	ion of quotations for purchasing package	14 days Mon 10/08/20	Sun 23/08/20	Mon 10/08/20		0 days 1034	1036	
	cance of conforming quotation and acceptance for Manufactur	21 days Mon 24/08/20	Sun 13/09/20	Mon 24/08/20		0 days 1035	1043,1055	
		19 days Tue 14/07/20	Sat 01/08/20	Tue 14/07/20			1043,1033	
	k Subletting Package (Repeated WBS 5.13.17)	3 days Tue 14/07/20	Thu 16/07/20	Tue 14/07/20		0 days	1039	
	ion of tander for subletting package	14 days Fri 17/07/20	Thu 30/07/20		Thu 30/07/20	0 days 1038	1040	
	ion of tender for subletting package		Sat 01/08/20		Sat 01/08/20	0 days 1038	1046,1049,1052,105	55 10
	rance of conforming quotation and acceptance for Manufactu	2 days Fri 31/07/20			Sun 04/10/20		10-10,1043,1032,105	55,10
	missions for Temporary Filtrate Lifting Well and Eq. Tank	34 days Tue 01/09/20	Sun 04/10/20			0 days	1071	
	5 - Detailed Design for Lifting Appliances - Temp. Filtrate Eq. Sy	30 edays Tue 01/09/20	Thu 01/10/20		Thu 01/10/20	0 edays 113		54
	ubmission for E&M Installation works for temp. filtrate eq. syst	21 days Mon 14/09/20	Sun 04/10/20	Mon 14/09/20			8,11045,1051,1048,105	J4
	ring and Delivery of Plant & Materials	165 days Mon 05/10/20	Thu 18/03/21	Mon 05/10/20		0 days		
	ift Pumps and Filtrate Transfer Pump, EQT011	165 days Mon 05/10/20	Thu 18/03/21	Mon 05/10/20		0 days 1043	1047	
	acturing and Factory Acceptance Test of Plant	120 days Mon 05/10/20	Mon 01/02/21	Mon 05/10/20		0 days 1040,1024		
	g and Delivery of Plant to site (Delivered)	45 days Tue 02/02/21	Thu 18/03/21		Thu 18/03/21	0 days 1046	1076	
48 1048 5.30.3.2 Instrument		165 days Mon 05/10/20	Thu 18/03/21	Mon 05/10/20		0 days 1043	1050	
	facturing and Factory Acceptance Test of Plant	120 days Mon 05/10/20	Mon 01/02/21	Mon 05/10/20		0 days 1040,102		
	ng and Delivery of Plant to site	45 days Tue 02/02/21	Thu 18/03/21	Tue 02/02/21		0 days 1049	1077	
1051 5.30.3.3 Pipework		165 days Mon 05/10/20	Thu 18/03/21	Mon 05/10/20		0 days 1043		
	acturing and Factory Acceptance Test of Plant	120 days Mon 05/10/20	Mon 01/02/21	Mon 05/10/20		0 days 1040,103		
	ng and Delivery of Plant to site	45 days Tue 02/02/21	Thu 18/03/21		Thu 18/03/21	0 days 1052	1075	
4 1054 5.30.3.4 Valve		165 days Mon 05/10/20	Thu 18/03/21		Thu 18/03/21	0 days 1043		
55 1055 5.30.3.4.1 Manufac	facturing and Factory Acceptance Test of Plant	120 days Mon 05/10/20	Mon 01/02/21	Mon 05/10/20		0 days 1040,103		
56 1056 5.30.3.4.2 Shipping	ng and Delivery of Plant to site	45 days Tue 02/02/21	Thu 18/03/21	Tue 02/02/21	Thu 18/03/21	0 days 1055	1075	

Drainage Services	DESPOSATIONS OF Region				Shek Wu	Hui Effluent Polishing I	Plant - Main Works Stag	ge 1 E&M Works for :	Sewage Treatment Facilitie	s						-
ID WBS	Task Name	Duration between Task Start and Finish	Finish	Early Start	Early Finish	Free Slack Predecess	sors Successors	Resource Names	2020		1021	111-152 2021	2022	Half 2 2022	2023	2024
				C-+ 04 (00 (00	T 25 (05 (24			INames	Half 1, 2020 N J M		Half 1, 2021	M J	S N J M M	Half 2, 2022 J S N	Half 1, 2023 Ha	Half 2, 2023 Half 1, 20
1057 5.30.4	Site Installation Work	297 days Sat 01/08/20	Tue 25/05/21	Sat 01/08/20												
1058 5.30.4.1	Commencement of Civil Construction and E&M Installation at Temp.		Tue 25/05/21	Sat 01/08/20												
1059 5.30.4.1.1	Civil Construction Work	297 days Sat 01/08/20	Tue 25/05/21	Sat 01/08/20												
1060 5.30.4.1.1.:		5 edays Sat 01/08/20	Thu 06/08/20	Sat 01/08/20			1061,1062			1						
1061 5.30.4.1.1.	Civil structural design and drawing submission for acceptance	30 days Fri 07/08/20	Sat 05/09/20	Fri 07/08/20	Sat 05/09/20	0 days 1060	1063									
1062 5.30.4.1.1.	Site Clearance, UU diversion and construction of U-channel	21 days Fri 07/08/20	Thu 27/08/20	Fri 07/08/20	Thu 27/08/20	0 days 1060	1063			_						
1063 5.30.4.1.1.4	ELS (Sheeting and Excavation)	60 days Sun 06/09/20	Wed 04/11/20	Sun 06/09/20	Wed 04/11/	0 days 1062,10	61 1064			_						
1064 5.30.4.1.1.!	Grouting Works	60 days Thu 05/11/20	Sun 03/01/21	Thu 05/11/20	Sun 03/01/21	0 days 1063	1065			<u> </u>						
1065 5.30.4.1.1.0	RC structure works including cast-in items	60 days Mon 04/01/21	Thu 04/03/21	Mon 04/01/21	Thu 04/03/21	0 days 1064	1074,1071,1066			*						
1066 5.30.4.1.1.	Removal Formwork and Flasework	8 days Fri 05/03/21	Fri 12/03/21	Fri 05/03/21	Fri 12/03/21	0 days 1065	1071,1072,1075,10	077,10			3					
1067 5.30.4.1.1.8	Waterproofing	14 days Sat 13/03/21	Fri 26/03/21	Sat 13/03/21	Fri 26/03/21	0 days 1066	1068				*					
1068 5.30.4.1.1.9	Other architectual works and finishing works	60 days Sat 27/03/21	Tue 25/05/21	Sat 27/03/21	Tue 25/05/21	0 days 1067	1085FF				<u> </u>					
1069 5.30.4.1.2	E&M Installation Work	34 days Sat 13/03/21	Thu 15/04/21	Sat 13/03/21	Thu 15/04/21	16 days										
1070 5.30.4.1.2.	Installation of Lifting Appliances at Temporary Filtrate Lifting We	10 days Sat 13/03/21	Mon 22/03/21	Sat 13/03/21	Mon 22/03	40 days					44					
1071 5.30.4.1.2.:		7 days Sat 13/03/21	Fri 19/03/21	Sat 13/03/21	Fri 19/03/21	0 days 1065,10	42,11073	LA - A × 4~6			TLA -	A x 4~6 men				
1072 5.30.4.1.2.:		7 days Sat 13/03/21	Fri 19/03/21	Sat 13/03/21	Fri 19/03/21	0 days 1066	1073	LA - A x 4~6			LA -	A x 4~6 men				
1073 5.30.4.1.2.:		3 days Sat 20/03/21	Mon 22/03/21	Sat 20/03/21	Mon 22/03/	40 days 1071,10		LA - A x 4~6			LA-	A x 4~5 men				
							1078FS-30 days				-					
1074 5.30.4.1.2.			Thu 08/04/21	Fri 19/03/21	Thu 08/04/21			NAE A A								
1075 5.30.4.1.2.			Thu 01/04/21	Fri 19/03/21	Thu 01/04/21	0 days 1066,10		ME - A x 4^								
1076 5.30.4.1.2.2		7 days Fri 02/04/21	Thu 08/04/21	Fri 02/04/21	Thu 08/04/21	0 days 1075,104		ME - A x 4^								
1077 5.30.4.1.2.	Installation of instrumentations, EQT035-3	7 days Fri 19/03/21	Thu 25/03/21		Thu 25/03/21			ME - A x 4^								
1078 5.30.4.1.2.	Electrical Installations for Temp. Filtrate Lifting Well and Eq. Tan	34 days Sat 13/03/21	Thu 15/04/21		Thu 15/04/21						7					
1079 5.30.4.1.2.	Installation of cable trays and cable containments	21 days Sat 13/03/21	Fri 02/04/21	Sat 13/03/21	Fri 02/04/21	0 days 1066	1080				<u> </u>					
1080 5.30.4.1.2.	Cables laying and terminations	7 days Fri 09/04/21	Thu 15/04/21	Fri 09/04/21	Thu 15/04/21	0 days 1079,10	76,11081									
1081 5.30.4.1.3	Site Acceptance Test for E&M Equip at Filtrate Lifting Well and Eq. Ta	7 days Fri 16/04/21	Thu 22/04/21	Fri 16/04/21	Thu 22/04/21	0 days 1080	1082				· ·					
10825.30.4.1.4	System Commissioning for E&M Equip at Temp. Filtrate Lifting Well a	7 days Fri 23/04/21	Thu 29/04/21	Fri 23/04/21	Thu 29/04/21	2 days 1081	1108FF									
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	Sat 01/08/20	Wed 01/09	0 days				•		-				
10845.31.1	Planned Key Date Completion Date - KD3B	0 days Mon 07/06/21	Mon 07/06/21	Mon 07/06/21	Mon 07/06/	0 days 1151FF						@ 07/06				
1085 5.31.2	Planned Sectional Completion Date - Section 3, PST No. 4 and No. 6	0 days Wed 01/09/21	Wed 01/09/21	Wed 01/09/21	Wed 01/09/	0 days 1068FF,1	117:					<b>⊚</b> 0	1/09			
1086 5.31.3	Selection of Suppliers for major plant and materials and Subcontractor	137 days Sat 01/08/20	Tue 15/12/20	Sat 01/08/20	Tue 15/12/20	0 days				•						
	for PST No. 4 and No. 6															
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	Sat 01/08/20	Fri 11/09/20	0 days										
1088 5.31.3.1.1	Submission for acceptance of purchasing package	7 days Sat 01/08/20	Fri 07/08/20	Sat 01/08/20	Fri 07/08/20	0 days	1089			=1						
1089 5.31.3.1.2	Invitation of quotations for purchasing package	14 days Sat 08/08/20	Fri 21/08/20	Sat 08/08/20	Fri 21/08/20	0 days 1088	1090			<u>*</u>						
1090 5.31.3.1.3	Acceptance of conforming quotation (Completed)	21 days Sat 22/08/20	Fri 11/09/20	Sat 22/08/20	Fri 11/09/20	0 days 1089	1100			<u>+</u> ,						
10915.31.3.2	Mis - Pipework, C11, ref. EQT037-2	42 days Sat 01/08/20	Fri 11/09/20	Sat 01/08/20	Fri 11/09/20	0 days				<b></b>						
10925.31.3.2.1	Submission for acceptance of purchasing package	7 days Sat 01/08/20	Fri 07/08/20	Sat 01/08/20		0 days	1093			_						
		14 days Sat 08/08/20	Fri 21/08/20		Fri 21/08/20	0 days 1092	1094									
1093 5.31.3.2.2	Invitation of quotations for purchasing package															
1094 5.31.3.2.3	Acceptance of conforming quotation (Completed)	21 days Sat 22/08/20	Fri 11/09/20		Fri 11/09/20	0 days 1093	1100									
1095 5.31.3.3	Subletting of Electrical and Mechanical Installation Work w/ supply of LCP	81 days Sat 26/09/20	Tue 15/12/20	Sat 26/09/20	Tue 15/12/20	0 days										
40005 24 2 2 4	Calculation for Calculation Daylor	20 days Sat 25 (00/20	Sun 25/10/20	Sat 36/00/30	Sun 25/10/20	0 days 1100	1097									
1096 5.31.3.3.1	Submission for Subletting Package	30 days Sat 26/09/20														
1097 5.31.3.3.2	Invitation to tender	21 days Mon 26/10/20	Sun 15/11/20		Sun 15/11/20	0 days 1096	1098									
1098 5.31.3.3.3	Acceptance of conforming tender (Completed)	30 days Mon 16/11/20	Tue 15/12/20		Tue 15/12/20		1115			-						
1099 5.31.4	Design Submissions	14 days Sat 12/09/20	Fri 25/09/20		Fri 25/09/20	0 days				Ţ						
1100 5.31.4.1	Design submissions for retrofitting the existing PST No. 4 and No. 6	14 days Sat 12/09/20	Fri 25/09/20	Sat 12/09/20	Fri 25/09/20	0 days 1090,109	94 1103,1106,1096			-						
1101 5.31.5	Manufacturing and Delivery of Plant & Materials	195 days Sat 26/09/20	Thu 08/04/21	Sat 26/09/20	Thu 08/04/21	0 days					7					
1102 5.31.5.1	Rotating Bridge Scrapers and associated materials	195 days Sat 26/09/20	Thu 08/04/21	Sat 26/09/20	Thu 08/04/21	0 days					-					
1103 5.31.5.1.1	Manufacturing and Factory Acceptance Test of Plant	150 days Sat 26/09/20	Mon 22/02/21	Sat 26/09/20	Mon 22/02/	0 days 1100	1104			Ť T						
1104 5.31.5.1.2	Shipping and Delivery of Plant to site (Rev. 8)	45 days Tue 23/02/21	Thu 08/04/21	Tue 23/02/21	Thu 08/04/21	0 days 1103	1121				*					
1105 5.31.5.2	Pipework .	120 days Sat 26/09/20	Sat 23/01/21	Sat 26/09/20	Sat 23/01/21	0 days				-	-					
1106 5.31.5.2.1	Manufacturing and Factory Acceptance Test of Plant	90 days Sat 26/09/20	Thu 24/12/20	Sat 26/09/20	Thu 24/12/20	0 days 1100	1107			+						
1107 5.31.5.2.2	Shipping and Delivery of Plant to site	30 days Fri 25/12/20	Sat 23/01/21	Fri 25/12/20	Sat 23/01/21	0 days 1106	1116			<u>+</u>						
1108 5.31.6	Tentative Civil Handover, Filtrate Lifting Well and Eq. Tank (Completion	1 day Sat 01/05/21	Sat 01/05/21		Sat 01/05/21	0 days 1082FF,1	107:				•	01/05				
	of work)															
1109 5.31.7	Site Installation Work	300 days Thu 01/10/20	Tue 27/07/21	Thu 01/10/20	Tue 27/07/21	0 days				<b></b>						
1110 5.31.7.1	Commencement of retrofitting the existing PST No. 4 and No. 6	300 days Thu 01/10/20	Tue 27/07/21	Thu 01/10/20	Tue 27/07/21	0 days				-						
1111 5.31.7.1.1	Temporary flow diversion of Filtrate from PST No. 4,	1 day Thu 01/10/20	Thu 01/10/20	Thu 01/10/20	Thu 01/10/20	0 days	1112			h						
1112 5.31.7.1.2	Dismantle and Removal of E&M Equipment at PST No. 6	60 days Fri 02/10/20	Mon 30/11/20	Fri 02/10/20	Mon 30/11/	0 days 1111	1113			<u>+</u>						
	Distriction of Court Equipment at F31 NO. 0	55 4475111 02/10/20		02/10/20		- 44,5 1111										
															100000000000000000000000000000000000000	
	Task Milestone ◆ Project Su Milestone, Tentative ● Summary Manual Su		Critical	Split	Manual Slack (Fl	-	Milestone (Actual)	*								
t: DE/2018/04	Milestone, Tentative   Summary  Manual Su				Slack (FI		Jidek									
Thu 01/07/21																

ID WBS 1									
10 1403	ask Name	Duration between Task Start and Finish	Finish	Early Start	Early Finish	Free Slack Predecesso	ors Successors	Resource Names	2020   2021   2022   2023   2024
14405 24 74 2	A Line of Charles for DCT by G		M 07/12/20	Tu- 01/12/20	M 07/12/	0 days 1112	1114	Ivallies	Half 1, 2020
1113 5.31.7.1.3	Temporary flow diversion of Filtrate from PST No. 6	7 days Tue 01/12/20	Mon 07/12/20	Tue 01/12/20			1114		
11145.31.7.1.4	Dismantle and Removal of E&M Equipment at PST No. 4	119 days Tue 08/12/20	Mon 05/04/21	Tue 08/12/20			1116		
1115 5.31.7.1.5	Mechanical Installations of existing PSTs No. 4 (Completed)	56 days Tue 06/04/21	Mon 31/05/21		Mon 31/05/21				
1116 5.31.7.1.5.1	Installation of PST influent feed pipe	5 days Tue 06/04/21	Sat 10/04/21	Tue 06/04/21	Sat 10/04/21	0 days 1114,1107	1117	ME - A x 4~6	
1117 5.31.7.1.5.2	Installation of circular baffle diffuser box	5 days Sun 11/04/21	Thu 15/04/21	Sun 11/04/21	Thu 15/04/21	0 days 1116	1118	ME - A x 4~6	
1118 5.31.7.1.5.3	Installation of scum baffle plates	5 days Fri 16/04/21	Tue 20/04/21	Fri 16/04/21	Tue 20/04/21	0 days 1117	1119	ME - A x 4~6	·6
1119 5.31.7.1.5.4	Installation of scum box with collection valve and pipework	5 days Wed 21/04/21	Sun 25/04/21	Wed 21/04/21	Sun 25/04/21	0 days 1118	1120	ME - A x 4~6	
1120 5.31.7.1.5.5	Installation of v-notched weir plate	7 days Mon 26/04/21	Sun 02/05/21	Mon 26/04/21	Sun 02/05/21	0 days 1119	1121	ME - A x 4~6	<b>-</b> €   <b>-</b>   <b>-</b>   <b>-</b>   <b>-</b>   <b>-</b>   <b>-</b>   <b>-</b>   <b>-</b>
1121 5.31.7.1.5.6	Installation of center bearing and slip ring assembly for rotating bridge	5 days Mon 03/05/21	Fri 07/05/21	Mon 03/05/21	Fri 07/05/21	0 days 1120,1104	1122	ME - A x 4~6	·6
1122 5.31.7.1.5.7	Installation of motor and gearbox assembly for rotating bridge	5 days Sat 08/05/21	Wed 12/05/21	Sat 08/05/21	Wed 12/05/21	0 days 1121	1123	ME - A x 4~6	
1123 5.31.7.1.5.8	Installation of rotating bridge sludge and scum scraper assembly	5 days Thu 13/05/21	Mon 17/05/21	Thu 13/05/21	Mon 17/05/21	0 days 1122	1124,1126	ME - A x 4~6	
1124 5.31.7.1.5.9	installation of removable FRP covers for effluent channel	14 days Tue 18/05/21	Mon 31/05/21	Tue 18/05/21	Mon 31/05/21	0 days 1123	1128	ME - A x 4~6	~6 ¥.ME - A x 4~6 men
1125 5.31.7.1.6	Electrical Installations of existing PST No. 4	10 days Tue 18/05/21	Thu 27/05/21	Tue 18/05/21	Thu 27/05/21	0 days	1128		
1126 5.31.7.1.6.1	Installation of local control panels	5 days Tue 18/05/21	Sat 22/05/21		Sat 22/05/21	0 days 1123	1127		
1127 5.31.7.1.6.2	cable laying and terminations	5 days Sun 23/05/21	Thu 27/05/21		Thu 27/05/21	0 days 1126	1128		
	, -				Sat 05/06/21	0 days 1125,1124			
1128 5.31.7.1.7	Site Acceptance Test for E&M Equip at existing PST No. 4	5 days Tue 01/06/21	Sat 05/06/21						
1129 5.31.7.1.8	CNE-0229 - Removal of accumulated sludge inside PST No. 6	12 days Wed 19/05/21	Sun 30/05/21	Wed 19/05/21			1139		
1130 5.31.7.1.8.:	Filtrate divserion to Temporary Filtrate Equalisation Tank	2 days Wed 19/05/21	Thu 20/05/21	Wed 19/05/21			1131		
11315.31.7.1.8.	Removal of floating scum / sludge inside PST No. 6	7 days Fri 21/05/21	Thu 27/05/21	Fri 21/05/21			5 1132,1133		
1132 5.31.7.1.8.	Clearance of blockage of PST No. 6 drain pipe	3 days Fri 28/05/21	Sun 30/05/21	Fri 28/05/21	Sun 30/05/21	0 days 1131			
1133 5.31.7.1.8.4	Retrofiting Concrete Structure of PST No. 6	3 days Fri 28/05/21	Sun 30/05/21	Fri 28/05/21	Sun 30/05/21	0 days 1131			
1134 5.31.7.1.9	NCE-007 - Additional Contract Requirements for provision ICE's	8 days Mon 14/06/21	Mon 21/06/21	Mon 14/06/21		0 days			n n
	Certificates (RSE) on re-use of existing materials				21/06/21				
1135 5.31.7.1.9.:	Provision of ICE's Certificate	8 days Mon 14/06/21	Mon 21/06/21	Mon 14/06/21	Mon 21/06/	. 0 days	1131,1139		
1136 5.31.7.1.10	NCE-008 - Additional Contract Requirements for provision ICE's	14 days Thu 24/06/21	Wed 07/07/21	Thu 24/06/21		0 days			
	Certificates on product design of E&M plant and materials.				07/07/21				
1137 5.31.7.1.10	Provision of ICE's Certificate	14 days Thu 24/06/21	Wed 07/07/21	Thu 24/06/21	Wed 07/07/	. 0 days	1139		
1138 5.31.7.1.11	Mechanical Installations of existing PST No. 6	48 days Fri 04/06/21	Wed 21/07/21	Fri 04/06/21	Wed 21/07	0 days			
1139 5.31.7.1.11	Installation of PST influent feed pipe	2 days Thu 08/07/21	Fri 09/07/21	Thu 08/07/21	Fri 09/07/21	0 days 1129,113	5,11140	ME - A x 4~	1 <sup>-</sup>
1140 5.31.7.1.11	Installation of center bearing and slip ring assembly for rotating br	2 days Sat 10/07/21	Sun 11/07/21	Sat 10/07/21	Sun 11/07/21	0 days 1139	1141,1144	ME - A x 4~	1 <sup>-</sup> X 4−6 men
1141 5.31.7.1.11	Installation of motor and gearbox assembly for rotating bridge	5 days Mon 12/07/21	Fri 16/07/21	Mon 12/07/21	Fri 16/07/21	0 days 1140	1148,1142,1143	ME - A x 4~	4~ ME - A x 4~6 men
1142 5.31.7.1.11	Installation of rotating bridge sludge and scum scraper assembly	5 days Sat 17/07/21	Wed 21/07/21	Sat 17/07/21	Wed 21/07/	. 0 days 1141		ME - A x 4~	4° ME - A x 4~6 men
1143 5.31.7.1.11	Installation of circular baffle diffuser box	2 days Sat 17/07/21	Sun 18/07/21	Sat 17/07/21	Sun 18/07/21	0 days 1141		ME - A x 4^	1 <sup>-</sup> ME - A x 4~6 men
1144 5.31.7.1.11	Installation of v-notched weir plate	2 days Fri 04/06/21	Sat 05/06/21	Fri 04/06/21	Sat 05/06/21	0 days 1140	1145,1146	ME - A x 4^	
1145 5.31.7.1.11	Installation of scum baffle plates	2 days Sun 06/06/21	Mon 07/06/21	Sun 06/06/21	Mon 07/06/	. 0 days 1144		ME - A x 4^	
1146 5.31.7.1.11	Installation of scum collection box	2 days Sun 06/06/21	Mon 07/06/21	Sun 06/06/21				ME - A x 4^	
1147 5.31.7.1.12	Electrical Installations of existing PSTs No. 6	6 days Sat 17/07/21	Thu 22/07/21	Sat 17/07/21			1150		
	Installation of local control panels	3 days Sat 17/07/21	Mon 19/07/21		Mon 19/07/		1149		
1148 5.31.7.1.12							1150		
1149 5.31.7.1.12	cable laying and terminations	3 days Tue 20/07/21	Thu 22/07/21	Tue 20/07/21					
1150 5.31.7.1.13	Site Acceptance Test for E&M Equip at existing PST No. 6	2 days Fri 23/07/21	Sat 24/07/21		Sat 24/07/21				
1151 5.31.7.1.14	System Commissioning for E&M Equip at existing PST No. 4 and No. 6	3 days Sun 25/07/21	Tue 27/07/21		Tue 27/07/21	0 days 1128,1150	1084FF		
1152 5.32	Existing Main Power House Electrical, Portion B-7A and B-7B (PS 6B.3.17)	42 days Thu 11/06/20	Wed 22/07/20	Thu 11/06/20					
1153 5.32.1	Planned Key Date Completion Date - KD3A	0 days Wed 22/07/20	Wed 22/07/20	Wed 22/07/20	Wed 22/07/	. 0 days			⊕ 22/07
11545.32.2	Design Submissions for Existing Emergency Generator House	15 days Fri 12/06/20	Fri 26/06/20	Fri 12/06/20	Fri 26/06/20	0 days			
1155 5.32.2.1	Design submissions for E&M installation works of existing power house	15 days Fri 12/06/20	Fri 26/06/20	Fri 12/06/20	Fri 26/06/20	0 days 179	1159		
1156 5.32.3	Site Installation Work	39 days Thu 11/06/20	Sun 19/07/20	Thu 11/06/20	Sun 19/07/20	0 days			
1157 5.32.3.1	Tentative Civil Handover Date, Portion B-7A & 7B area for modification of exist	1 day Thu 11/06/20	Thu 11/06/20	Thu 11/06/20	Thu 11/06/20	0 days			● 11/06
1158 5.32.3.2	Commencement of Modification of existing emergency generator Electrical	23 days Sat 27/06/20	Sun 19/07/20	Sat 27/06/20	Sun 19/07/20	0 days			
	Works								
1159 5.32.3.2.1	Site survey and preparation work	1 day Sat 27/06/20	Sat 27/06/20	Sat 27/06/20	Sat 27/06/20	0 days 1155	1160		
1160 5.32.3.2.2	Modification of existing emergency generator electrical works	3 days Sun 28/06/20	Tue 30/06/20	Sun 28/06/20	Tue 30/06/20	0 days 1159	1161		<u> </u>
1161 5.32.3.2.3	Test the new switchboard for on-site mobile generator	2 days Wed 01/07/20	Thu 02/07/20	Wed 01/07/20	Thu 02/07/20	0 days 1160	1162		
1162 5.32.3.2.4	Dismantling and removal the existing power & control cables	14 days Fri 03/07/20	Thu 16/07/20	Fri 03/07/20	Thu 16/07/20	0 days 1161	1163		
1163 5.32.3.2.5	Take down existing generator to DSD (Completed)	3 days Fri 17/07/20	Sun 19/07/20	Fri 17/07/20	Sun 19/07/20	0 days 1162			
1164 5.33	Existing Sludge Press House, Portion B-10 (PS 6B.2.11)	425 days Wed 01/07/20	Sun 29/08/21	Wed 01/07/20	Sun 29/08/21	L 3 days			
1165 5.33.1	Planned Key Date Completion Date - KD3B	0 days Mon 07/06/21	Mon 07/06/21	Mon 07/06/21					® Q7/06
1166 5.33.2	Selection of Suppliers for major plant and materials for Filter Presses	52 days Wed 01/07/20	Fri 21/08/20	Wed 01/07/20					
1167 5.33.2.1	Mis - new replacement filter plates and provision of filter cloths, C11, ref.	52 days Wed 01/07/20	Fri 21/08/20	Wed 01/07/20		0 days			
	EQT038			, 0., 23	-, -, 20				
1168 5.33.2.1.1	Submission for acceptance of purchasing package	21 days Wed 01/07/20	Tue 21/07/20	Wed 01/07/20	Tue 21/07/20	0 days	1169		
	ask Milestone ♦ Project Sur	nmary Late	Critical S	Split	· · · · Manual	Progress	Milestone (Actual)	*	
twise	Ailestone, Tentative   Summary  Manual Su	mmary Critical	Progress	s	Slack (FI	loat)	Slack		•
:: DE/2018/04									

1 1170 5.33.2.1.3 Design 1 1171 5.33.3 Design 2 1172 5.33.4 Manut 3 1173 5.33.4.1 Manut 4 1174 5.33.4.2 Shi 5 1175 5.33.5 Site I 1 1775 5.33.5 Site I 1 1775 5.33.5 Site I 1 1775 5.33.5 Site I 1 1775 5.33.5 Site I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Invitation of quotations for purchasing package  Acceptance of conforming quotation (Completed) sign submission for replacement of filter plates anufacturing and Delivery of Plant & Materials Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site e Installation Work Commencement of replacement of filter plates Replacement of filter plates (On Hold) services Installation (P5 6B.6.9) sinned Key Date Completion Date - KD1B, Fire sinned Sectional Completion Date - Section 1, FSI sign Submissions for FSI CDS081-11 - Civil and dimensional requirements drawings for Fire Servi CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinklet et Stores Submissions to FSD for approval e Installation Work Commencement of Fire Services Installation Design Review of Approved General Building Plan Submission of WWO542 for WSD's approval Submission of WWO46 for WSD's Inspection Obtain WWO46 Part V FSD Inspection and Approval for DG Stores	Duration between Task Start and Finish  10 days Wed 21 days Sat 7 edays Fri 2 345 days Fri 2 21 days Mo 21 days Mo 21 days Mo 21 days Mo 21 days Mo 21 days Mo 21 days Mo 21 days Mo 21 days Mo 1248 days Tue 0 days Tue 120 days Sun 910 days Sun 910 days Sun 30 days Sat 60 days Mor	1 22/07/20 F 01/08/20 F 01/08/20 F 121/08/20 F 121/08/20 F 129/08/20 S 129/08/20 T 15/06/21 S 10 09/08/21 S 10 09/08/21 S 10 01/12/20 V 10 01/06/21 T 10 12/07/21 M 10 1/12/20 S 10 1/12/20 S 10 1/12/20 S 11/10/21 S 131/10/21 S 131/10/21 S	Fri 31/07/20 Fri 21/08/20 Fri 28/08/20 Sun 08/08/21 Thu 24/06/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05/24 Tue 01/06/21 Wed 01/05/24 Sat 30/10/21 Tue 30/03/21 Sat 30/10/21 Sun 27/02/22 Sat 27/04/24	Wed 22/07/20 Sat 01/08/20 Fri 21/08/20 Sat 29/08/20 Sat 29/08/20 Fri 25/06/21 Mon 09/08/21 Mon 09/08/21 Tue 01/12/20 Tue 01/06/21 Wed 01/05/24 Tue 01/12/20 Tue 01/12/20 Tue 01/12/20 Tue 01/12/20 Sun 31/10/21	Fri 31/07/20 Fri 21/08/20 Fri 28/08/20 Sun 08/08/21 Thu 24/06/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05 Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sat 30/10/21 Tue 30/03/21 Sat 30/10/21	0 days 1168 0 days 1169 0 edays 1170 0 days 1171 0 days 1171 0 days 1173 3 days 3 days 1174 0 days 1174 0 days 1183FF 0 days 1184FF 0 days 1199FF 0 days 0 days 0 days 0 days 1	rs Successors  1170  1171  1173  1174  1177  1085FF  1179FF  1188,1185,1180FF	Resource
1 1170 5.33.2.1.3 Design 1 1171 5.33.3 Design 2 1172 5.33.4 Manut 3 1173 5.33.4.1 Manut 4 1174 5.33.4.2 Shi 5 1175 5.33.5 Site I 1 1775 5.33.5 Site I 1 1775 5.33.5 Site I 1 1775 5.33.5 Site I 1 1775 5.33.5 Site I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Acceptance of conforming quotation (Completed) sign submission for replacement of filter plates anufacturing and Delivery of Plant & Materials Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site e Installation Work Commencement of replacement of filter plates Replacement of filter plates (On Hold) services Installation (PS 6B.6.9) sinned Key Date Completion Date - KD1B, Fire sinned Sectional Completion Date - Section 1, FSI sinned Sectional Completion Date - Section 4, FSI sign Submissions for FSI CDS081-11 - Civil and dimensional requirements drawings for Fire Servi CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinklet stores Submissions to FSD for approval e Installation Work Commencement of Fire Services Installation Design Review of Approved General Building Plan Submission of WWO46 for WSD's Inspection Obtain WWO46 Part V FSD Inspection and Approval for MVAC	21 days Sat i 7 edays Fri I 345 days Sat 300 days Sat: 45 days Fri I 21 days Mo 21 days Mo 21 days Mo 1248 days Tue 0 days Tue 0 days Tue 120 days Tue 120 days Tue 120 days Tue 120 days Sun 126 days Sun 126 days Sun 270 days Sun 30 days Sat i	01/08/20 F 21/08/20 F 22/08/20 S 29/08/20 S 29/08/20 T 15/06/21 S 10 09/08/21 S 10 09/08/21 S 10 01/12/20 V 10 01/05/24 V 10 01/12/20 S 10 01/12/20 T 10 03/05/21 S 31/10/21 S 31/10/21 S	Fri 21/08/20 Fri 28/08/20 Sun 08/08/21 Thu 24/06/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05/24 Tue 01/06/21 Wod 01/05/24 Sat 30/10/21 Tue 30/03/21 Sat 30/10/21 Sun 27/02/22 Sat 27/04/24	Sat 01/08/20 Fri 21/08/20 Sat 29/08/20 Sat 29/08/20 Fri 25/06/21 Mon 09/08/21 Mon 09/08/21 Tue 01/12/20 Tue 01/06/21 Wed 01/05/24 Tue 01/12/20 Tue 01/12/20 Tue 01/12/20 Tue 01/12/20 Sun 31/10/21	Fri 21/08/20 Fri 28/08/20 Sun 08/08/21 Thu 24/06/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05 Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sat 30/10/21 Tue 30/03/21 Sat 30/10/21	0 days 1169 0 edays 1170 0 days 0 days 1171 0 days 1173 3 days 3 days 1174 0 days 1183FF 0 days 1184FF 0 days 1199FF 0 days 0 days	1171 1173 1174 1177 1085FF	
1 1171 5.33.3 Desig 2 1172 5.33.4 Manu 3 1173 5.33.4.1 Ma 4 1174 5.33.4.2 Shi 5 1175 5.33.5 Site I 5 1176 5.33.5.1 Co 7 1177 5.33.5.1.1 Fire Ser 9 1179 5.34.1 Plann 1 1180 5.34.2 Plann 2 1182 5.34.4 Desig 3 1183 5.34.4.1 CD 1 1184 5.34.4.2 CD 1 1185 5.34.5 DG St 5 1186 5.34.6 Site II 7 1187 5.34.6.1 Cor 1 1187 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor 1 1189 5.34.6.1.1 Cor	sign submission for replacement of filter plates anufacturing and Delivery of Plant & Materials Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site e Installation Work Commencement of replacement of filter plates Replacement of filter plates (On Hold) Services Installation (PS 68.6.9) Inned Key Date Completion Date - KD18, Fire Inned Sectional Completion Date - Section 1, FSI Inned Sectional Completion Date - Section 4, FSI sign Submissions for FSI CDS081-11 - Civil and dimensional requirements drawings for Fire Servi CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkles is Stores Submissions to FSD for approval e Installation Work Commencement of Fire Services Installation Design Review of Approved General Building Plan Submission of WW046 for WSD's Inspection Obtain WW046 Part V FSD Inspection and Approval for MVAC	7 edays Fri Z 345 days Sat 300 days Sat: 45 days Fri Z 21 days Mo 21 days Mo 21 days Mo 1248 days Tue 0 days Tue 0 days Mo 0 days We 334 days Tue 120 days Tue 180 edays Mo 120 days Sun 910 days Sun 910 days Sun 270 days Sun 30 days Sat i	21/08/20 F 29/08/20 S 29/08/20 T 29/08/20 T 5/06/21 S n 09/08/21 S n 09/08/21 S 01/12/20 V 01/12/20 T 01/12/20 S	Fri 28/08/20 Sun 08/08/21 Thu 24/06/21 Sun 08/08/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05/24 Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Sat 30/10/21 Tue 30/03/21 Sat 30/10/21 Sun 27/02/22 Sat 27/04/24	Fri 21/08/20 Sat 29/08/20 Sat 29/08/20 Fri 25/06/21 Mon 09/08/21 Mon 09/08/21 Tue 01/12/20 Tue 01/06/21 Wed 01/05/24 Tue 01/12/20 Tue 01/12/20 Tue 01/12/20 Sun 31/10/21	Fri 28/08/20 Sun 08/08/21 Thu 24/06/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05 Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sat 30/10/21 Tue 30/03/21 Sat 30/10/21	0 edays 1170 0 days 0 days 1171 0 days 1173 3 days 3 days 3 days 1174 0 days 0 days 1183FF 0 days 1184FF 0 days 1199FF 0 days 0 days	1173 1174 1177 1085FF	
2 1172 5.33.4 Manu 3 1173 5.33.4.1 Ma 4 1174 5.33.4.2 Shi 5 1175 5.33.5 Site I 5 1176 5.33.5.1 Co 7 1177 5.33.5.1.1 Plann 1 1187 5.34 Fire Ser 9 1179 5.34.1 Plann 1 1181 5.34.3 Plann 2 1182 5.34.4 Desig 3 1183 5.34.4.1 CD 1 1184 5.34.4.2 CD 5 1185 5.34.5 DG St 6 1186 5.34.6 Site II 7 1187 5.34.6.1 Co 1 1189 5.34.6.1.1 Co	Amufacturing and Delivery of Plant & Materials  Manufacturing and Factory Acceptance Test of Plant  Shipping and Delivery of Plant to site  e Installation Work  Commencement of replacement of filter plates  Replacement of filter plates (On Hold)  Services Installation (PS 68.6.9)  Inned Key Date Completion Date - KD1B, Fire  Inned Sectional Completion Date - Section 1, FSI  Inned Sectional Completion Date - Section 4, FSI  sign Submissions for FSI  CD5081-11 - Civil and dimensional requirements drawings for Fire Servi  CD5049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkler  is Stores Submissions to FSD for approval  e Installation Work  Commencement of Fire Services Installation  Design Review of Approved General Building Plan  Submission of WW046 for WSD's Inspection  Obtain WW046 Part V  FSD Inspection and Approval for MVAC	345 days Sat :  45 days Fri 2 21 days Mo 21 days Mo 21 days Mo 1248 days Tue 0 days Tue 0 days Tue 120 days Tue 120 days Sun 126 days Sun 910 days Sun 270 days Sun 30 days Sat i	29/08/20 S 29/08/20 T 29/08/20 T 5/06/21 S n 09/08/21 S n 09/08/21 S n 09/08/21 S 01/12/20 V 01/12/20 V 01/12/20 S	Sun 08/08/21 Thu 24/06/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05/24 Tue 01/06/21 Wed 01/05/24 Sat 30/10/21 Tue 30/03/21 Sat 30/10/21 Sun 27/02/22 Sat 27/04/24	Sat 29/08/20 Sat 29/08/20 Fri 25/06/21 Mon 09/08/21 Mon 09/08/21 Tue 01/12/20 Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Tue 01/12/20 Tue 01/12/20 Tue 01/12/20 Sun 31/10/21	Sun 08/08/21 Thu 24/06/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05 Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sat 30/10/21 Tue 30/03/21 Sat 30/10/21	0 days 0 days 1171 0 days 1173 3 days 3 days 3 days 1174 0 days 0 days 1183FF 0 days 1184FF 0 days 1199FF 0 days 0 days	1174 1177 1085FF	
3 1173 5.33.4.1 Ma 4 1174 5.33.4.2 Shi 5 1175 5.33.5 Site I 5 1176 5.33.5.1 Co 7 1177 5.33.5.1.1 9 1179 5.34.1 Plann 10 1180 5.34.2 Plann 1181 5.34.3 Plann 1181 5.34.4 Desig 1182 5.34.4 CD 1183 5.34.4.1 CD 1184 5.34.4.2 CD 1185 5.34.5 DG St 1185 5.34.6 Site II 1187 5.34.6.1 Coi 1189 5.34.6.1.1 II 1191 5.34.6.1.3 II 1191 5.34.6.1.4 (d)	Manufacturing and Factory Acceptance Test of Plant  Shipping and Delivery of Plant to site  Installation Work  Commencement of replacement of filter plates  Replacement of filter plates (On Hold)  Services Installation (PS 68.6.9)  Inned Key Date Completion Date - KD1B, Fire  Inned Sectional Completion Date - Section 1, FSI  Inned Sectional Completion Date - Section 4, FSI  Sign Submissions for FSI  CDS081-11 - Civil and dimensional requirements drawings for Fire Servi  CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkler  Stores Submissions to FSD for approval  Installation Work  Commencement of Fire Services Installation  Design Review of Approved General Building Plan  Submission of WWO46 for WSD's Inspection  Obtain WWO46 Part V  FSD Inspection and Approval for MVAC	300 days Sat: 45 days Fri 2 21 days Mo 21 days Mo 21 days Mo 21 days Mo 1248 days Tue 0 days Mo 0 days We 334 days Tue 120 days Tue 180 edays Mo 120 days Sun 120 days Sun 910 days Sun 910 days Sun 270 days Sun 30 days Sat	29/08/20 T 5:5/06/21 S n 09/08/21 S n 09/08/21 S n 09/08/21 S n 09/08/21 S 01/12/20 V 01/06/21 T n 12/07/21 M 01/12/20 S 01/12/20 T 01/12/20 T 31/10/21 S 31/10/21 S 31/10/21 S	Thu 24/06/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05/24 Tue 01/06/21 Wed 01/05/24 Sat 30/10/21 Tue 30/03/21 Sun 27/02/22 Sat 27/04/24	Sat 29/08/20 Fri 25/06/21 Mon 09/08/21 Mon 09/08/21 Mon 09/08/21 Tue 01/12/20 Tue 01/06/21 Wed 01/05/24 Tue 01/12/20 Tue 01/12/20 Mon 03/05/21 Sun 31/10/21	Thu 24/06/21 Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05 Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sat 30/10/21 Tue 30/03/21 Sat 30/10/21	0 days 1171 0 days 1173 3 days 3 days 3 days 1174 0 days 0 days 1183FF 0 days 1184FF 0 days 1199FF 0 days 0 days	1177 1085FF	
4 1174 5.33.4.2 Shi 5 1175 5.33.5 Site I 6 1176 5.33.5.1 Co 7 1177 5.33.5.1.1 Fire Ser 9 1179 5.34.1 Plann 1 1181 5.34.2 Plann 1 1181 5.34.3 Plann 2 1182 5.34.4 Desig 3 1183 5.34.4.1 CD 4 1184 5.34.4.2 CD 5 1185 5.34.5 DG St 6 1186 5.34.6 Site II 7 1187 5.34.6.1 Co 1 1189 5.34.6.1.1 Co 1 1189 5.34.6.1.2 St 1 1190 5.34.6.1.3 St 1 1191 5.34.6.1.4 Co	Shipping and Delivery of Plant to site  e Installation Work  Commencement of replacement of filter plates  Replacement of filter plates (On Hold)  iervices Installation (PS 68.6.9)  inned Key Date Completion Date - KD1B, Fire  inned Sectional Completion Date - Section 1, FSI  inned Sectional Completion Date - Section 4, FSI  sign Submissions for FSI  CDS081-11 - Civil and dimensional requirements drawings for Fire Servi  CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkler  is Stores Submissions to FSD for approval  e Installation Work  Commencement of Fire Services Installation  Design Review of Approved General Building Plan  Submission of WWO42 for WSD's Inspection  Obtain WWO46 Part V  FSD Inspection and Approval for MVAC	45 days Fri 2 21 days Mo 21 days Mo 21 days Mo 21 days Mo 1248 days Tue 0 days Mo 0 days We 334 days Tue 120 days Tue 180 edays Mo 120 days Sun 120 days Sun 910 days Sun 910 days Sun 270 days Sun 30 days Sat i	15/06/21 S 16 09/08/21 S 17 09/08/21 S 18 09/08/21 S 18 09/08/21 S 18 01/12/20 V 19 01/06/21 T 19 12/07/21 M 19 01/05/24 V 19 01/12/20 S 19 01/12/20 T 19 03/05/21 S 19 11/0/21 S 11/10/21 S 11/10/21 S 11/10/21 S	Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05/24 Tue 01/06/21 Wed 01/05/24 Sat 30/10/21 Tue 30/03/21 Sat 30/10/21 Sun 27/02/22 Sat 27/04/24	Fri 25/06/21 Mon 09/08/21 Mon 09/08/21 Mon 09/08/21 Tue 01/12/20 Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Tue 01/12/20 Tue 01/12/20 Mon 03/05/21 Sun 31/10/21	Sun 08/08/21 Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05 Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sat 30/10/21 Tue 30/03/21 Sat 30/10/21	0 days 1173 3 days 3 days 3 days 1174 0 days 0 days 1183FF 0 days 1184FF 0 days 1199FF 0 days 0 days	1177 1085FF	
5 1175 5.33.5 Site I 5 1176 5.33.5.1 Co 7 1177 5.33.5.1.1 Fire Ser 3 1178 5.34 Fire Ser 3 1179 5.34.1 Plann 1 1181 5.34.3 Plann 2 1182 5.34.4 Desig 3 1183 5.34.4.1 CD 4 1184 5.34.4.2 CD 5 1185 5.34.5 DG St 5 1186 5.34.6 Site II 7 1187 5.34.6.1 Co 1 1189 5.34.6.1.1 St 9 1189 5.34.6.1.2 St 1 1190 5.34.6.1.3 St 1 1191 5.34.6.1.4 Co	e Installation Work  Commencement of replacement of filter plates  Replacement of filter plates (On Hold)  Services Installation (PS 68.6.9)  Inned Key Date Completion Date - KD18, Fire  Inned Sectional Completion Date - Section 1, FSI  Inned Sectional Completion Date - Section 4, FSI  Sign Submissions for FSI  CDS081-11 - Civil and dimensional requirements drawings for Fire Servi  CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkler  Stores Submissions to FSD for approval  Installation Work  Commencement of Fire Services Installation  Design Review of Approved General Building Plan  Submission of WWO42 for WSD's Inspection  Obtain WWO46 Part V  FSD Inspection and Approval for MVAC	21 days Mo 21 days Mo 21 days Mo 21 days Mo 1248 days Tue 0 days Mo 0 days We 334 days Tue 120 days Tue 180 edays Mo 120 days Sun 910 days Sun 910 days Sun 270 days Sun 30 days Sun	n 09/08/21 S n 09/08/21 S n 09/08/21 S 10 09/08/21 S 10 01/12/20 V 10 01/06/21 T 11 12/07/21 N 12/07/21 S 10 01/12/20 S 10 1/12/20 T 10 03/05/21 S 31/10/21 S 31/10/21 S 31/10/21 S	Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05/24 Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Sat 30/10/21 Tue 30/03/21 Sat 30/10/21 Sun 27/02/22 Sat 27/04/24	Mon 09/08/21 Mon 09/08/21 Tue 01/12/20 Tue 01/06/21 Mon 12/07/21 Wed 01/05/24 Tue 01/12/20 Tue 01/12/20 Mon 03/05/21 Sun 31/10/21	Sun 29/08/21 Sun 29/08/21 Sun 29/08/21 Wed 01/05 Tue 01/06/21 Mon 12/07/ Wed 01/05/ Sat 30/10/21 Tue 30/03/21 Sat 30/10/21	3 days 3 days 3 days 1174 0 days 0 days 1183FF 0 days 1184FF 0 days 1199FF 0 days 0 days	1085FF	
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4 11845.34.4.2 CD 5 11855.34.5 DG St 5 11865.34.6 Site II 7 11875.34.6.1 Cor 13 11885.34.6.1.1 II 9 11895.34.6.1.2 S 11995.34.6.1.3 S 11915.34.6.1.4 G	CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinklei  Stores Submissions to FSD for approval  e Installation Work  Commencement of Fire Services Installation  Design Review of Approved General Building Plan  Submission of WWO542 for WSD's approval  Submission of WWO46 for WSD's Inspection  Obtain WWO46 Part V  FSD Inspection and Approval for MVAC	180 edays Mo 120 days Sun 910 days Sun 910 days Sun 126 days Sun 270 days Sun 30 days Sat (	n 03/05/21 S 31/10/21 S 31/10/21 S 31/10/21 S 31/10/21 S	Sat 30/10/21 Sun 27/02/22 Sat 27/04/24	Mon 03/05/21 Sun 31/10/21	Sat 30/10/21			
5 1185 5.34.5 DG St 5 1186 5.34.6 Site II 7 1187 5.34.6.1 Con 3 1188 5.34.6.1.1 II 9 1189 5.34.6.1.2 S 1 1190 5.34.6.1.3 S	is Stores Submissions to FSD for approval  e Installation Work  Commencement of Fire Services Installation  Design Review of Approved General Building Plan  Submission of WWO542 for WSD's approval  Submission of WWO46 for WSD's Inspection  Obtain WWO46 Part V  FSD Inspection and Approval for MVAC	120 days Sun 910 days Sun 910 days Sun 126 days Sun 270 days Sun 30 days Sat (	31/10/21 S 31/10/21 S 31/10/21 S 31/10/21 S	Sun 27/02/22 Sat 27/04/24	Sun 31/10/21		0 edays 154	1188,1185.1180FF	
5 1186 5.34.6 Site II 7 1187 5.34.6.1 Cor 8 1188 5.34.6.1.1 II 9 1189 5.34.6.1.2 S 1190 5.34.6.1.3 S 1191 5.34.6.1.4 G	e Installation Work  Commencement of Fire Services Installation  Design Review of Approved General Building Plan  Submission of WWO542 for WSD's approval  Submission of WWO46 for WSD's Inspection  Obtain WWO46 Part V  FSD Inspection and Approval for MVAC	910 days Sun 910 days Sun 126 days Sun 270 days Sun 30 days Sat (	31/10/21 S 31/10/21 S 31/10/21 S	Sat 27/04/24		Sun 27/02/22		,,	
7 1187 5.34.6.1 Cor 3 1188 5.34.6.1.1 (1 3 1189 5.34.6.1.2 (2 4 1190 5.34.6.1.3 (3 1 1191 5.34.6.1.4 (4)	Commencement of Fire Services Installation  Design Review of Approved General Building Plan  Submission of WWO542 for WSD's approval  Submission of WWO46 for WSD's Inspection  Obtain WWO46 Part V  FSD Inspection and Approval for MVAC	910 days Sun 126 days Sun 270 days Sun 30 days Sat (	31/10/21 S 31/10/21 S				690 days 1184	1194FF	
3 1188 5.34.6.1.1 9 1189 5.34.6.1.2 5 1190 5.34.6.1.3 5 1191 5.34.6.1.4	Design Review of Approved General Building Plan Submission of WWO542 for WSD's approval Submission of WWO46 for WSD's Inspection Obtain WWO46 Part V FSD Inspection and Approval for MVAC	126 days Sun 270 days Sun 30 days Sat (	31/10/21 S		Sun 31/10/21	Sat 27/04/24	4 days		
9 1189 5.34.6.1.2 5 0 1190 5.34.6.1.3 5 1 1191 5.34.6.1.4 6	Submission of WWO542 for WSD's approval  Submission of WWO46 for WSD's Inspection  Obtain WWO46 Part V  FSD Inspection and Approval for MVAC	270 days Sun 30 days Sat (		Sat 27/04/24	Sun 31/10/21	Sat 27/04/24	4 days		
1190 5.34.6.1.3 5 1 1191 5.34.6.1.4	Submission of WWO46 for WSD's Inspection Obtain WWO46 Part V FSD Inspection and Approval for MVAC	30 days Sat (	06/02/22	Sat 05/03/22	Sun 31/10/21	Sat 05/03/22	0 days 1184	1189	
1 1191 5.34.6.1.4	Obtain WWO46 Part V FSD Inspection and Approval for MVAC		U0/U3/22 V	Wed 30/11/22	Sun 06/03/22	Wed 30/11/22	310 days 1188	1190	
	FSD Inspection and Approval for MVAC	60 days Man	07/10/23 S	Sun 05/11/23	Sat 07/10/23	Sun 05/11/23	0 days 1189,353,48	82 1191	
1192 5.34.6.1.5		oo days Mor	n 06/11/23 T	Thu 04/01/24	Mon 06/11/23	Thu 04/01/24	0 days 1190	1194,1192	
	FSD Inspection and Approval for DG Stores	21 days Fri 0	5/01/24 T	Thu 25/01/24	Fri 05/01/24	Thu 25/01/24	0 days 1202,1203,1	111195	
3 1193 5.34.6.1.6	A Processor - Color	21 days Wed	i 06/12/23 T	Tue 26/12/23	Wed 06/12/23	Tue 26/12/23	30 days 1202,1203,8	811195	
1 1194 5.34.6.1.7	Submission of (FSI/314 & FSI/501) to FSD	14 days Fri 0	15/01/24 T	Thu 18/01/24	Fri 05/01/24	Thu 18/01/24	7 days 1202,1203,1	111195	
5 1195 5.34.6.1.8	Pre-inspection meeting with FSD	5 days Fri 2	6/01/24 T	Tue 30/01/24	Fri 26/01/24	Tue 30/01/24	0 days 1194,1192,1	111196	
5 1196 5.34.6.1.9 I	Initial Inspection with FSD	15 days Wed	i 31/01/24 V	Wed 14/02/24	Wed 31/01/24	Wed 14/02/24	0 days 1195	1197	
7 1197 5.34.6.1.10	Document Checking	45 days Thu	15/02/24 S	Sat 30/03/24	Thu 15/02/24	Sat 30/03/24	0 days 1196	1198	
3 1198 5.34.6.1.11 I	Re-inspections with FSD	14 days Sun	31/03/24 S	Sat 13/04/24	Sun 31/03/24	Sat 13/04/24	0 days 1197	1199	
) 1199 5.34.6.1.12 I	Issue of acceptance memo by FSD	14 days Sun	14/04/24 S	Sat 27/04/24	Sun 14/04/24	Sat 27/04/24	4 days 1198	1181FF	
) 1200 5.34.6.1.13 I	Installation of FS Pumps and Sprinkler Pumps	60 days Mor	n 03/04/23 T	Thu 01/06/23	Mon 03/04/23	Thu 01/06/23	127 days	1203	FS - A x 4~6
1201 5.34.6.1.14	Installation of Fire Hydrant and Booster Pumps	60 days Mor	n 03/04/23 T	Thu 01/06/23	Mon 03/04/23	Thu 01/06/23	127 days	1203	FS - A x 4~6
2 1202 5.34.6.1.15	SAT for Manual and automatic fire detection and alarm system	60 days Sat (	07/10/23 T	Tue 05/12/23	Sat 07/10/23	Tue 05/12/23	0 days 353,482,593	3, 1194,1192,1193	
3 1203 5.34.6.1.16	SAT for Fire hydrants, hose reels and street fire hydrant system	60 days Sat (	07/10/23 T	Tue 05/12/23	Sat 07/10/23	Tue 05/12/23	0 days 1200,1201,3	35 1194,1192,1193	
1204 5.35 Fire Sen	ervices Sprinkler Pumping Room, Portion B-7 & B-7B (PS 6B.6.9)	421 days Thu	19/05/22 T	Thu 13/07/23	Thu 19/05/22	Thu 13/07/23	200 days		
5 1205 5.35.1 Site I	e Installation Work	421 days Thu	19/05/22 T	Thu 13/07/23	Thu 19/05/22	Thu 13/07/23	200 days		
5 1206 5.35.1.1 Ter	Tentative Civil Handover Date, FS Sprinkler Pump Room (Rev. 5)	1 day Thu	19/05/22 T	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days	1207,1212	
7 1207 5.35.1.2 Co	Commencement of E&M Installation at FS & Sprinkler Pump Room	420 days Thu	19/05/22 T	Thu 13/07/23	Thu 19/05/22	Thu 13/07/23	200 days 1206		
3 1208 5.35.1.2.1	Mechanical Installations for FS & Sprinkler Pumps	90 edays Thu	19/05/22 V	Wed 17/08/22	Thu 19/05/22	Wed 17/08/	0 edays	1209	
9 1209 5.35.1.2.2	Electrical Installations for FS & Sprinkler Pumps	90 edays We	d 17/08/22 T	Tue 15/11/22	Wed 17/08/22	Tue 15/11/22 0	.63 edays 1208	1210,1213,1214,1215	
12105.35.1.2.3	Site Acceptance Test for FS & Sprinkler Pumps	45 days We	d 16/11/22 F	Fri 30/12/22	Wed 16/11/22	Fri 30/12/22	0 days 1209	1211	
1 12115.35.1.2.4	System Commissioning for FS & Sprinkler Pumps	45 days Sat	31/12/22 N	Mon 13/02/23	Sat 31/12/22	Mon 13/02/	325 days 1210	1194	
2 1212 5.35.1.2.5	Building Services Installations at FS & Sprinkler Pump Room	240 days We	d 16/11/22 T	Thu 13/07/23	Wed 16/11/22	Thu 13/07/23	200 days 1206		
3 1213 5.35.1.2.5.:	Lighting and Power Distribution System, Chem 1&2	120 days We	d 16/11/22 V	Wed 15/03/23	Wed 16/11/22	Wed 15/03/	0 days 1209	1216	
12145.35.1.2.5.:	Lightning Protection System, FS & Sprinkler Pump Room	30 days We	d 16/11/22 T	Thu 15/12/22	Wed 16/11/22	Thu 15/12/22	90 days 1209	1216	
5 1215 5.35.1.2.5.:	Mechanical Ventilation System, FS & Sprinkler PR	14 days We	d 16/11/22 T	Tue 29/11/22	Wed 16/11/22	Tue 29/11/22	106 days 1209	1216	
5 1216 5.35.1.2.5.4	Testing and Commissioning of Building Services Installations, FS &	120 days Thu	16/03/23 T	Thu 13/07/23	Thu 16/03/23	Thu 13/07/23	189 days 1213,1214	1,11194FF	
7 1217 5.36 Fire Hyd	lydrant and Booster Pumping Room, Portion B7 & B-7B (PS 6B.6.9)	465 days Thu	19/05/22 S	Sat 26/08/23	Thu 19/05/22	Sat 26/08/23	156 days		
	e Installation Work	465 days Thu	19/05/22	Sat 26/08/23	Thu 19/05/22	Sat 26/08/23	156 days		
9 1219 5.36.1.1 Ter	Tentative Civil Handover Date, Fire Hydrant and Booster Pumping Roor	1 day Thu	19/05/22 T	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days	856FF+50 days,1221	
	Commencement of E&M Installation at Street FH Pump Room	464 days Thu	19/05/22	Sat 26/08/23	Thu 19/05/22	Sat 26/08/23	156 days		
12215.36.1.2.1	Mechanical Installations for Street FH Pumps	90 edays Thu	19/05/22 V	Wed 17/08/22	Thu 19/05/22	Wed 17/08/	0 edays 1219	1222	
	Electrical Installations for Street FH Pump	90 edays We	d 17/08/22 T	Tue 15/11/22	Wed 17/08/22	Tue 15/11/22 0	.63 edays 1221	1223,1226	
1223 5.36.1.2.3	Site Acceptance Test for Street FH Pump	45 days We	d 16/11/22 F	Fri 30/12/22	Wed 16/11/22	Fri 30/12/22	0 days 1222	1224	
1224 5.36.1.2.4	System Commissioning for Street FH Pumps	45 days Sat	31/12/22 N	Mon 13/02/23	Sat 31/12/22	Mon 13/02/	339 days 1223	1194FF	
	Building Services Installations at Street FH Pump Room	284 days We		Sat 26/08/23	Wed 16/11/22	Sat 26/08/23	156 days		
5 1226 5.36.1.2.5.:	Lighting and Power Distribution System, Street FH PR	120 days We	d 16/11/22 V	Wed 15/03/23	Wed 16/11/22	Wed 15/03/	0 days 1222	1229,1227	
7 1227 5.36.1.2.5.:	Lightning Protection System, Street FH PR	30 days Thu		Fri 14/04/23	Thu 16/03/23	Fri 14/04/23	0 days 1226	1228,1229	
Task  estwise Milestone, Ter	Milestone ◆ Project Summ  Tentative ● Summary Manual Sumr		ate ritical	Critical Split Progress		Manual Prog	gress	Milestone (Actual) *	
ect: DE/2018/04 : Thu 01/07/21	yummuy mailuai sumr					Siden (Flodt)			_

	es Department						lant - Main Works Stage 1	LOCITI TTOTAL TOTAL		
ID WBS	Task Name	Duration between Task Start Start and Finish	Finish	Early Start	Early Finish F	Free Slack Predecesso	ors Successors	Resource Names	2020   2021   2022   2023     Half 1, 2020   Half 1, 2021   Half 2, 2021   Half 1, 2022   Half 2, 2022   Half 1, 2023   Half 2, 2022   Half 1, 2023   Half 2, 2022   Half 2, 2022   Half 2, 2023   Half	2024 3 Half 2, 2023 Half 1, 2024
1228 5.36.1.2.	5.: Mechanical Ventilation System, Street FH PR	14 days Sat 15/04/23	Fri 28/04/23	Sat 15/04/23	Fri 28/04/23	0 days 1227	1229	MVAC - A x	J M M J S N J M M J S N J	M
1229 5.36.1.2.		120 days Sat 29/04/23	Sat 26/08/23		Sat 26/08/23	145 days 1226,122	7,11194FF			<del>*</del>
.230 5.37	Plumbing Installation (PS 6B.6.8)	1049 days Tue 16/02/21	Tue 02/01/24	Tue 16/02/21	Tue 02/01/24	0 days				
1231 5.37.1	Planned Sectional Completion Date - Section 1, Plumbing	0 days Thu 01/07/21	Thu 01/07/21	Thu 01/07/21	Thu 01/07/21	0 days 1233FF			g <sub>1</sub> 01/07	
232 5.37.2	Design Submissions for Plumbing	134 days Tue 16/02/21	Wed 30/06/21	Tue 16/02/21	Wed 30/06	1 day				
233 5.37.2.1	CDS033 - Detailed Design for Plumbing System	134 edays Tue 16/02/21	Wed 30/06/21	Tue 16/02/21	Wed 30/06/	0.63 edays 149	1236,1231FF			
2345.37.3	Site Installation Work	915 days Thu 01/07/21	Tue 02/01/24	Thu 01/07/21	Tue 02/01/24	0 days				
235 5.37.3.1	Commencement of Plumbing Installation	915 days Thu 01/07/21	Tue 02/01/24	Thu 01/07/21	Tue 02/01/24	0 days				<del></del>
36 5.37.3.1.1	Submission of detail design for acceptance	90 days Thu 01/07/21	Tue 28/09/21	Thu 01/07/21	Tue 28/09/21	0 days 1233	1237	Pb - A x 4~6		
237 5.37.3.1.2	Submission of WWO542 for WSD's approval	355 days Wed 29/09/21	Sun 18/09/22	Wed 29/09/21	Sun 18/09/22	118 days 1236	351,480,591,766	Pb - B x 4~6		
238 5.37.3.1.3	Connection of External Pumping System (By others)	0 days Fri 15/09/23	Fri 15/09/23	Fri 15/09/23	Fri 15/09/23	17 days	1239			<b>6</b> _15/09
239 5.37.3.1.4	Submission of WWO46 for WSD's Inspection	45 days Mon 02/10/23	Wed 15/11/23	Mon 02/10/23	Wed 15/11/23	0 days 1238,351,4	48C 1240			<b>+</b>
1240 5.37.3.1.5	Obtain WWO46 Part V	45 days Thu 16/11/23	Sat 30/12/23	Thu 16/11/23	Sat 30/12/23	2 days 1239	1241			***
1241 5.37.3.1.6	Tentative Date for connection of external water pipework (by others)	0 days Tue 02/01/24	Tue 02/01/24	Tue 02/01/24	Tue 02/01/24	0 days 1240				<b>⊚</b> 02/01
1242 5.38	Photovoltaic Power System (PS 6B.6.11)	1128 days Mon 01/03/21	Mon 01/04/24	Mon 01/03/21	Mon 01/04	0 days				
243 5.38.1	Planned Sectional Completion Date - Section 1, BR 2A & 2B	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/	0 days 1253FF			<b>€</b> 12/07	
2445.38.2	Planned Sectional Completion Date - Section 2, BR 2A & 2B	0 days Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/	0 days 1261FF				
245 5.38.3	Selection of Suppliers for major plant and materials for BR 2A & 2B	73 days Mon 01/03/21	Wed 12/05/21	Mon 01/03/21	Wed 12/05/21	12 days				
46 5.38.3.1	PV System (EQT041)	73 days Mon 01/03/21	Wed 12/05/21	Mon 01/03/21	Wed 12/05	12 days				
247 5.38.3.1.1		30 days Mon 01/03/21	Tue 30/03/21	Mon 01/03/21	Tue 30/03/21	0 days	1248	,		
1248 5.38.3.1.2		21 days Wed 31/03/21	Tue 20/04/21	Wed 31/03/21	Tue 20/04/21	0 days 1247	1249		±	
249 5.38.3.1.3		21 days Wed 21/04/21	Tue 11/05/21	Wed 21/04/21	Tue 11/05/21	0 days 1248	1250			
1250 5.38.3.1.4		1 day Wed 12/05/21	Wed 12/05/21	Wed 12/05/21	Wed 12/05/21	0 days 1249	1252		K	
1251 5.38.4	Design Submissions	49 days Wed 12/05/21	Wed 30/06/21	Wed 12/05/2	Wed 30/06	12 days			<u>-</u>	
1252 5.38.4.1	CDS060 - Detailed Design for PV System	45 edays Wed 12/05/21	Sat 26/06/21	Wed 12/05/21	Sat 26/06/21	0.63 edays 1250	1253			
1253 5.38.4.2	Complete the CLP's Electronic Application Form and Upload Required D	4 days Sun 27/06/21	Wed 30/06/21	Sun 27/06/21	Wed 30/06/	0 days 1252	1243FF,1255			
1254 5.38.5	Material ordering and delivery to site	767 days Thu 01/07/21	Sun 06/08/23	Thu 01/07/21	Sun 06/08/23	59 days				-
1255 5.38.5.1	Manufacturing and Factory Acceptance Test of Plant	150 days Thu 01/07/21	Sat 27/11/21	Thu 01/07/21	Sat 27/11/21	572 days 1253	1256			
1256 5.38.5.2	Shipping and Delivery of Plant to site	45 days Fri 23/06/23	Sun 06/08/23	Fri 23/06/23	Sun 06/08/23	0 days 1255,125	85:1259			
1257 5.38.6	Site Installation Work	345 days Thu 23/02/23	Fri 02/02/24	Thu 23/02/23	Fri 02/02/24	0 days				
12585.38.6.1	Tentative Civil Handover Date, Portion B-4, BR2A & 2B (Rev. 5)	1 day Thu 23/02/23	Thu 23/02/23	Thu 23/02/23	Thu 23/02/23	0 days	1256SS+120 edays		<b>⊕</b> 7	23/02
1259 5.38.6.2	Commencement of Site Installation Work	90 days Mon 07/08/23	Sat 04/11/23	Mon 07/08/23	Sat 04/11/23	0 days 1256	1260	PV - A x 4~0		<u>*</u>
1260 5.38.6.3	Technical Assessment, System Test and Installation	60 days Sun 05/11/23	Wed 03/01/24	Sun 05/11/23	Wed 03/01/	0 days 1259	1261	PV - A x 4~0		*
12615.38.6.4	CLP's smart meter installation and Final on-grid test with CLP	30 days Thu 04/01/24	Fri 02/02/24	Thu 04/01/24	Fri 02/02/24	59 days 1260	1244FF			<u> </u>
1262 5.39	Plant Commissioning	240 days Tue 12/09/23	Wed 08/05/24	Tue 12/09/23	Wed 08/05	0 days	39FF			<del>                                     </del>
1263 5.39.1	Planned Sectional Completion Date - Section 4, Plant Commissioning	0 days Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/	0 days				
1264 5.39.2	Design Submission for Treatment Process Plant Testing & Commissionin	90 days Wed 01/11/23	Mon 29/01/24	Wed 01/11/2	3 Mon 29/01	105 days				
1265 5.39.2.1	Document Submission and Resubmission for T&C procedures	90 days Wed 01/11/23	Mon 29/01/24	Wed 01/11/23	Mon 29/01/24	105 days 1266FF-12	90 d			
1266 5.39.3	System Commissioning Tests of the E&M systems at IW, PST, BR 2A&2B, I	7 days Thu 08/02/24	Wed 14/02/24	Thu 08/02/24	Wed 14/02/	0 days 919,965,9	985 1267,1265FF-120 day	/S		# I
1267 5.39.4	MBR System Process Startup	35 days Thu 15/02/24	Wed 20/03/24	Thu 15/02/24	Wed 20/03/	0 days 1266	1268			<u> </u>
1268 5.39.5	Plant Commissioning	35 days Thu 21/03/24	Wed 24/04/24	Thu 21/03/24	Wed 24/04/	0 days 1267	1271			
1269 5.39.6	Overall commissioning of CCTV system	30 days Tue 12/09/23	Wed 11/10/23	Tue 12/09/23	Wed 11/10/23	196 days 352,481,59	92, 1271			+
1270 5.39.7	Overall commissioning of Facility Computerized Systems (SCADA, CMMS, PMS, ID	28 days Mon 11/12/23	Sun 07/01/24	Mon 11/12/23	Sun 07/01/24	108 days 344,473,75	58, 1271			#
1271 5.39.8	Overall Plant Commissioning and DSD pre-handover inspections	14 days Thu 25/04/24	Wed 08/05/24	Thu 25/04/24	Wed 08/05/24	5 days 1268,1269	9,12			
1272 5.40	CE No. 009 - Provision of an Additional Primary Sludge Thickening System	375 days Tue 14/07/20	Fri 23/07/21	Tue 14/07/20	Fri 23/07/21	0 days				
1273 5.40.1	Detail Design Submission and Approval	77 days Tue 14/07/20	Mon 28/09/20	Tue 14/07/20	Mon 28/09/	0 days	1275			
1274 5.40.2	Subletting, Procurement, Manufacturing and Delivery	120 days Fri 31/07/20	Fri 27/11/20	Fri 31/07/20	Fri 27/11/20	0 days				
1275 5.40.3	Site Installation	270 days Sat 17/10/20	Tue 13/07/21		Tue 13/07/21	0 days 1273	1276			
1276 5.40.4	Testing and Commissioning	10 days Wed 14/07/21	Fri 23/07/21	Wed 14/07/2:	L Fri 23/07/21	0 days 1275	1277FF			
1277 5.40.5	Planned Completion Date	1 day Fri 23/07/21	Fri 23/07/21	Fri 23/07/21	Fri 23/07/21	0 days 1276FF			<b>€</b> 23/07	
1278 6	Beam Plus Submissions	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	0 days				
1279 6.1	SA10 - Environmental Management Plan	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39			
1280 6.2	SA11 - Air Pollution During Construction	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20		19 days	39			
1281 6.3	SA12 - Noise During Construction	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20		19 days	39			
1282 6.4	SA14 - Noise from Building Equipment	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39			
1283 6.5	SA15 - Light Pollution	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39			
1284 6.6	MAP1 - Timber used for Temporary Works	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39			
1284 6.6	MAP2 - Use of Non-CFC Based Refrigerants	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39			
1285 6.7	MAP3 - Waste Management Plan	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20		19 days	39			
1200 0.8	11147 2 - Marc ManaPontelit Lian	55 44/5 64/65/25		,,	,- ','					
		mmary Late	Critical	Solit	Manual P	rogress	Milestone (Actual)	t		
	Task Milestone ◆ Project Sur	nmary & Late	Citical	Spine		. og. oss				

Section   Sect	March   Marc	March   Marc	Marie   Mari		artment				Shek Wu Hu			ramme for DE/2018/04 Stage 1 E&M Works for :	Sewage Treatment Facilit	ies							A
1	No.   Value	1.   1.   1.   1.   1.   1.   1.   1.	March   Marc	D WBS Task Na	√ame		Finish	Early Start	Early Finish Fr	ee Slack Predece	essors Successors	Names	Half 1 2020	Half 2, 2020	Half 1 2021	Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	lalf 2, 2023	Half 1, 2024
1	1	Mathematical   Math	March   Marc	287 6.9 MA	IA2 - Modular and Standardized Design		Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		M LL N	M J S N		M J S	N	M J S	N	J S N	
1	1	1	10   10   10   10   10   10   10   10		IA8 - Ozone Depleting Substances	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		_		THE COLUMN ASSESSMENT						
1	1	1	10	89 6.11 MA	IA11 - Construction Waste Reduction	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		-					Party de la companya de la companya de la companya de la companya de la companya de la companya de la companya			
1	1	1	10	0 6.12 EUI	JP1 - Minimum Energy Performance	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		-				WEST SHEET SEE				
1.	1	1	Marie   Mari			1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		_					A section of the sect			
1.	1.   1.   1.   1.   1.   1.   1.   1.	1.00   1.00	March   Marc			1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		-								
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1602 - Pumbing and Drainage 1603 - Biological Combinations on 1600 days Fri 101/65/20 Fri 19/04/24 Fri	160 days Fri 01/05/20 Fri 19/04/24 Fri 01/05	1602 - Plumbing and Draininger   1630 days in 10,109/20	According to the property   According to the property	L6.23 IEC	QP1 - Minimum Ventilation Performance	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		-								
1402   Flumbing and Drainage	160   160	1620 - Pumbing and Drainage   1630 days in 10,105/10	Company   Comp			1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		-								
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EQS - Construction   AQ Management	1	Process   Proc	State   Stat			1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		-								
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16.12   16.12   16.12   16.13   16.1	1   1   1   1   1   1   1   1   1   1	EC12 - Ventilation in Common Areas	18				Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		-								
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16.33   EC16 / IEC17 - Interior Lighting in Normally Occupied Area / Interior Lighting in Normally Occupied	IEQ16 / IEQ17 - Interior Lighting in Areas not Normally Occupied   1450 days Fri 01/05/20   Fri 19/04/24   Fri 01/05/20   Fri 19/04/24   19 days   39	16016 / IEO17 - Interior Lighting in Areas not Normally Occupied  Summary of compensation events notified  Summary of compensation events notified  126 days? Wed 22/04/20  Tue 25/08/20	18			1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days	39		-								
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Compensation Event (CE) No. 002, the Contractor's Site Accommodation by 1 day Mon 08/06/20 Mon 08/06/20 Wed 22/04/20 Wed 2	Compensation Event (CE) No. 002, the Contractor's Site Accommodation by 1 day Mon 08/06/20 Mon 08/06/20 Wed 22/04/20 Wed 2	Compensation Event (CE) No. 002, the Contractor's Site Accommodation by 1 day Mon 08/06/20 Mon 08/06/20 Wed 22/04/20 Wed 2	Segmentation   Section	.7 Sumn	mary of compensation events notified	126 days? Wed 22/04/20	Tue 25/08/20	Wed 22/04/20	Tue 25/08/20	0 days?			-	-							
7.2 Compensation Event (CE) No. 003, Designated Area for the Contractor's Site 1 day Wed 22/04/20 Wed 22/04/2	2 Compensation Event (CE) No. 003, Designated Area for the Contractor's Site 1 day Wed 22/04/20	Compensation Event (CE) No. 003, Designated Area for the Contractor's Site 1 day Wed 22/04/20 We	Table	37.1 Co	ompensation Event (CE) No. 001, Special Arrangement in Reducing the Risk	1 day Tue 25/08/20	Tue 25/08/20	Tue 25/08/20	Tue 25/08/20	0 days				⊚ 25/08							
7.4 Compensation Event (CE) No. 005, Designated Area for the Contractor's Stor	A Compensation Event (CE) No. 005, Designated Area for the Contractor's Stori  Compensation Event (CE) No. 007, Employment of Temporary Staff under Area for the Order and Staff under Area for the Compensation Event (CE) No. 009, Provision of an Additional Primary Sludge  1 day Tue 14/07/20 Tue 14/07/20 Tue 14/07/20 O days  1 day Tue 14/07/20 Tue 14/07/20 Tue 14/07/20 O days  1 14/07/20 Tue 14/07/20 Tue 14/07/20 O days  1 14/07/20 Tue 14/07/20 O days  1 14/07/20 Tue 14/07/20 O days  1 14/07/20 Tue 14/07/20 O days  1 14/07/20 Tue 14/07/20 O days	Compensation Event (CE) No. 005, Designated Area for the Contractor's Stori  Compensation Event (CE) No. 007, Employment of Temporary Staff under Ar 1 day Fri 10/07/20 Fri 10/07/20 Fri 10/07/20 Fri 10/07/20 O days  Compensation Event (CE) No. 009, Provision of an Additional Primary Sludge 1 day Tue 14/07/20 Tue 14/07/20 Tue 14/07/20 O days  14/07	1.5   Commontant Section 1.5   Commontant Se	17.2 Co	ompensation Event (CE) No. 002, the Contractor's Site Accommodation by	1 day Mon 08/06/20	Mon 08/06/20	Mon 08/06/20	Mon 08/06/	0 days				⊚ 08/06							
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7.7 Compensation Event (CE) No. 011, Dismantling, relocating, disconnecting an 1 day? Fri 17/07/20 Fri 17/07/20 Fri 17/07/20 Vri 17/07/20 Fri 17/07/20 Vri 17/07	7 Compensation Event (CZ) No. 011, Dismantling, relocating, disconnecting an 1 days 7rt 17/07/20 Fri 17/07/20	7.7 Compensation Event (CE) No. 0.11, Diamarding, relocating, disconnecting an 1.4 sp <sup>2</sup> fri 17/87/25 fri 37/87/20 fri 17/87/25 fri 17/	To a	187.6 Co	ompensation Event (CE) No. 009, Provision of an Additional Primary Sludge	1 day Tue 14/07/20	Tue 14/07/20	Tue 14/07/20	Tue 14/07/20	0 days											
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# APPENDIX B MONITORING REQUIREMENTS

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

## **Appendix B - Environmental Impact Monitoring Requirements**

**Table B-1 Air Quality Monitoring** 

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Air Quality	1-hour TSP	3 times/day, once every 6 days	<ul> <li>AM1 – Wai Loi Tsuen</li> <li>AM2 – Fu Tei Au</li> </ul>	<ul> <li>AM1 – Ground Level</li> <li>AM2 – Ground Level</li> </ul>
, in Quanty	24-hour TSP	Once every 6 days	<ul> <li>AM1a – Site Boundary of the Shek Wu Hui STW (East)</li> <li>AM2a – Site Boundary of the Shek Wu Hui STW (North)</li> </ul>	<ul> <li>AM1a – Ground Level</li> <li>AM2a – Ground Level</li> </ul>

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

## **Appendix B - Environmental Impact Monitoring Requirements**

**Table B-2** Noise Monitoring

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Construction Noise	L <sub>eq</sub> , L <sub>90</sub> & L <sub>10</sub> at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	<ul> <li>NM1 – Wai Loi Tsuen</li> <li>NM2 – Fu Tei Au</li> <li>NM3 – Man Kok Village</li> </ul>	<ul> <li>NM1 – Ground Level –         Free Field</li> <li>NM2 – Ground Level –         Free Field</li> <li>NM3 – Ground Level –         Free Field</li> </ul>

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

## **Appendix B - Environmental Impact Monitoring Requirements**

**Table B3** Ecological Monitoring

Type of Monitoring	Methodology	Location	Descriptions	Influenced by Tidal Action
		<ul><li>Transect T1</li><li>Point Count Location P1</li><li>Point Count Location P2</li></ul>	Along Ng Tung River	No
	Weekly transect at both high and low tides to identify and enumerate all bird species utilizing the river channels and	<ul><li>Transect T2</li><li>Point Count Location P3</li><li>Point Count Location P4</li></ul>	Along Ivg Tung River	Yes
Ecology	identify any sources of actual or potential disturbance to birds due to	Point Count Location P5	At Shek Sheung River (Low –flow Channel)	No
	construction activities throughout the construction period.	Transect T3	Along Shek Sheung River & Sheung Yue River	Yes
	, and the second	Point Count Location P6	At Shek Sheung River	Yes
		Point Count Location P7	At Interscetion between Sheung Yue River and Shek Sheung River	Yes

## APPENDIX C ACTION AND LIMIT LEVELS

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

Table C-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 C-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 C-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 C-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 D 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,	Air Pollution Control Ordinance (APCO) and Air Pollution	*
	Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;				Stage 2 and Stage 3	Control (Construction Dust) Regulation	۸
	Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;						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

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 Control (Construction Dust) Regulation	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;				-		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						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
Noise Impact		1		1	1		
S3.2.1.1	Use of movable barrier, enclosure, acoustic mat and quiet plant. Use of wooden frames barrier with a small-cantilevered upper portion of superficial density not less than 14kg/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)	^
S3.2.1.2	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	To minimize construction noise impact arising from	Contractor	Work Sites	Construction phase of Main Works Stage 1,	EIAO-TM, NCO	^
	Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.	the Project at the affected NSRs			Stage 2 and Stage 3		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

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Ecological Impac		T		T	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	^
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	^
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;						^
	Construction debris and spoil should be covered and/or properly disposed of as soon as possible to avoid these being washed into nearby water bodies;						۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status	
S4.2.1.4	Proper locations for discharge outlets of temporary wastewater treatment facilities well away from sensitive receivers should be identified;	Avoid, minimise and mitigate impact on water quality	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and	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.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Water Quality I	mpact						
S5.2.2.1	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						٨

EM&A Ref.	O Company of the comp	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							
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)	۸
	Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;  Provision of sufficient waste disposal points and regular collection for		۸				
	Provision of sufficient waste disposal points and regular collection for disposal;					-	۸
	Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;						۸
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;						۸
	An Environmental Management Plan (EMP) should be prepared by the contractor and submitted to the Supervisor for approval.						۸
S6.2.3.1	Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Reduce waste generation	Contractor	Work Sites	commencement of construction of Main Works Stage 1, Stage 2	WDO	Α
	Proper storage and site practices to minimize the potential for damage and contamination of construction materials;				and Stage 3		۸
	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;						۸
	Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); and						۸
	Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.						۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
6.2.4.1	Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1,	WDO	۸
	Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and				Stage 2 and Stage 3		۸
	Different locations should be designated to stockpile each material to enhance reuse.						^
S6.2.4.2	Remove waste in timely manner;	Minimize waste	Contractor	Work Sites	Construction	WDO	*
	Employ the trucks with cover or enclosed containers for waste transportation	impacts arising from waste storage			phase of Main Works Stage 1, Stage 2 and		۸
	Obtain relevant waste disposal permits from the appropriate authorities				Stage 3		٨
	Disposal of waste should be done at licensed waste disposal facilities.						۸
S6.2.5.2	Maintain temporary stockpiles and reuse excavated fill material for backfilling;	Minimize waste impacts from excavated and	Contractor	Work Sites	Construction phase of Main Works Stage 1,	Land (Miscellaneous Provisions) Ordinance, WDO,	۸
	Carry out on-site sorting;	C&D materials			Stage 2 and	ETWB TCW No.	٨
	Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;				Stage 3	19/2005	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
S6.2.5.3	The Contractor should recycle as much as possible of the C&DM on-site. Public fill and C&DM waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. For example, concrete and masonry can be crushed and used as fill, and steel reinforcing bar can be used by scrap steel mills. Different areas of the work sites should be designated for such segregation and storage.	Minimize waste impacts from building demolition and new building construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	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	The use of wooden hoardings shall not be allowed. An alternative material, such as metal, aluminium or alloy etc, could be used.	Minimize waste impacts from building demolition and new building construction	Contractor	Work Sites		Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	۸
	Government has developed a charging policy for the disposal of waste to landfill at present. It will provide additional incentive to reduce the volume of generated waste and ensure proper segregation to allow reuse of the inert material on site when implemented.						^
	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.	Control the chemical waste and	Contractor	Work Sites	Construction phase of Main	Waste Disposal (Chemical Waste	۸
	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.	ensure proper storage, handling and disposal			Stage 3	(Chemical Waste General) Regulation, Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	*
S6.2.5.5	General refuse should be stored in enclosed bins separately from construction and chemical wastes.	Minimize production of the	Contractor	Work Sites	Construction phase of Main	Waste Disposal (Chemical Waste	۸
	Recycling bins should also be placed to encourage recycling.	general refuse and avoid odour, pest			Works Stage 1, Stage 2 and	General) Regulation	٨
	Preferably enclosed and covered areas should be provided for general refuse collection and routine cleaning for these areas should also be implemented to keep areas clean.	and litter impacts			Stage 3		۸
	A reputable waste collector should be employed to remove general refuse on a daily basis.						۸

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

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
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
\$7.3.2.1	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 E SITE AUDIT SUMMARY

## Appendix E – Summary of Observations and Recommendations of Site Audit

**Reporting Quarter:** April – June 2021

Table E-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	26 May 2021	Faded NRMM label should be replaced at Portion C.	The condition was observed to be improved/rectified by the contractor during the audit session on 1 June 2021.
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	27 Apr 2021	Chemicals should be stored in drip tray at Portion C.	The condition was observed to be improved/rectified by the contractor during the audit session on 4 May 2021.
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 E-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 E-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	18 May 2021	Water spraying should be provided for the site area to minimize dust generation at Portion B1.	The condition was observed to be improved/rectified by the contractor during the audit session on 25 May 2021.
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 E-4 Observations and Recommendations of Site Audit of Contract No. DE/2018/04

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	11 May 2021	Stagnant water on the impervious sheets should be cleared at Portion B-3-B.	The condition was observed to be improved/rectified by the contractor during the audit session on 18 May 2021.
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	30 Mar 2021	Waste accumulated should be removed at Portion B-3-B.	The condition was observed to be improved/rectified by the contractor during the audit session on 7 Apr 2021.
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

#### APPENDIX F WASTE FLOW TABLE

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

## 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									
Manakh	Total	and Large	Reused in	Reused in	Disposed			Paper/			Others, e.g.
Month	Quantity	Broken	the	other	as Public	Imported		cardboard		Chemical	general
	Generated	Concrete	Contract	Projects	Fill	Fill	Metals	packaging	Plastics	Waste	refuse
	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	10.034	0.000	0.000	8.257	1.777	0.606	0.000	0.000	0.002	0.000	0.038
Feb	3.703	0.000	0.000	2.871	0.833	0.071	2.120	0.000	0.000	0.000	0.024
Mar	4.644	0.000	0.000	2.190	2.454	0.037	0.000	0.000	0.006	0.000	0.044
Apr	0.211	0.000	0.023	0.000	0.188	0.167	0.000	0.000	0.008	0.000	0.042
May	0.557	0.000	0.218	0.000	0.340	0.149	0.001	0.002	0.008	0.000	0.081
Jun	0.348	0.000	0.000	0.000	0.348	0.074	8.210	0.000	0.000	0.000	0.069
<b>Sub-total</b>	19.497	0.000	0.240	13.317	5.939	1.103	10.331	0.002	0.023	0.000	0.299
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	19.497	0.000	0.240	13.317	5.939	1.103	10.331	0.002	0.023	0.000	0.299

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									
Manth	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 '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 '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	0.836	0.000	0.000	0.000	0.836	0.301	21.25	0.000	0.002	0.000	0.006
Feb	0.911	0.000	0.000	0.000	0.911	0.376	39.35	0.000	0.000	0.000	0.007
Mar	0.954	0.000	0.000	0.000	0.954	0.202	0.00	0.000	0.003	0.000	0.016
Apr	0.550	0.000	0.000	0.046	0.504	0.000	0.00	0.000	0.008	0.000	0.009
May	1.368	0.000	0.000	0.149	1.220	0.000	0.00	0.000	0.008	0.000	0.012
Jun	0.670	0.000	0.000	0.074	0.596	0.000	0.00	0.010	0.000	0.000	0.012
Sub-total	5.290	0.000	0.000	0.269	5.021	0.879	60.60	0.010	0.020	0.000	0.062
Jul											
Aug											
Sep											
Oct											
Nov											_
Dec									_		_
Total	5.290	0.000	0.000	0.269	5.021	0.879	60.60	0.010	0.020	0.000	0.062

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	/ <del>EMSD/HyD/WSD</del>

# Monthly Summary Waste Flow Table for 2021 (year)

		Actual Quantitie	es of Inert C&D	Materials Genera	ted Monthly			Actual Quantities of	of C&D Wastes	Generated Mon	ithly
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 '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
Jan	9.53 T	0	0	0	9.53 T	0	0	0	0	0	0
Feb	3.47T	0	0	0	3.47 T	0	0	0	0	0	0
Mar	14.79T	0	0	0	14.79T	0	0	0	0	0	0
Apr	7.21T	0	0	0	7.21T	0	0	0	0	0	0
May	11.34T	0	0	0	11.34T	0	0	0	0	0	0
June	328.08T	0	0	0	328.08T	0	0	0	0	0	0
Sub- total	374.42T	0	0	0	374.42T	0	0	0	0	0	0
July											
Aug											
Sept											
Oct											
Nov			·								
Dec											
Total	374.42T	0	0	0	374.42T	0	0	0	0	0	0

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*												
I arge Broken I I mnorted Fill I Metals I a I nemical Waste I									Others, e.g. general refuse				
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )			
TBA	TBA	TBA	TBA	TBA	TBA	TBA	ТВА	TBA	ТВА	TBA			

Notes:

- (1) The performance targets are given in PS Clause 6A.27.8(14).
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The *Contractor* shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>. (PS Clause 6.21.7(4)(b) refer

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 Go	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan	230.16	0	0	0	230.16	0	0	0	0	0	1.54
Feb	175.98	0	100	0	75.98	0	0	0	0	0	3.63
Mar	11.98	0	0	0	11.98	0	0	0	0	0	1.35
Apr	0	0	0	0	0	0	0	0	0	0	1.48
May	0	0	0	0	0	0	0	0	0	0	3.25
June	0	0	0	0	0	0	0	0	0	0	2.01
Sub-total	418.12	0	100	0	318.12	0	0	0	0	0	13.26
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	418.12	0	100	0	318.12	0	0	0	0	0	13.26

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

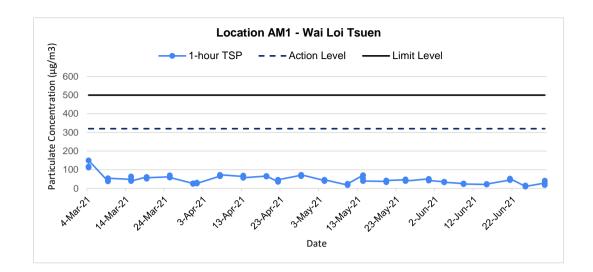
	Forecast of Total Quantities of C&D Materials to be Generated from the Contract										
I Targe Broken I I I I I I I I I I I I I I I I I I I							Others, e.g. general refuse				
(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)	
918.24	0	200	0	718.24	0	0	5	0	0	39.52	

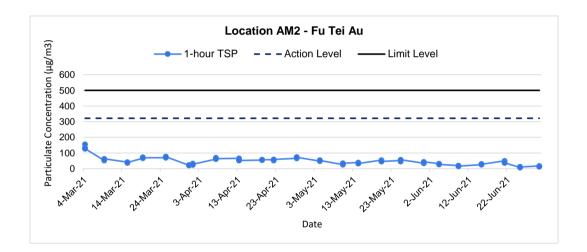
Notes:

- 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 G GRAPHICAL PRESENTATIONS OF AIR QUALITY MONITORING RESULTS (1-HOUR)

#### 1-hr TSP Concentration Levels





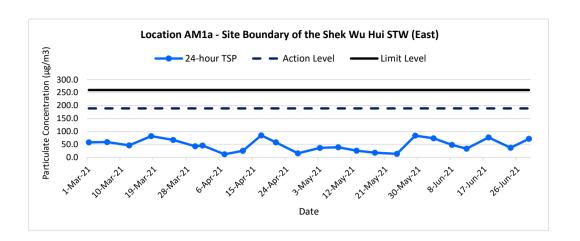
#### Remarks

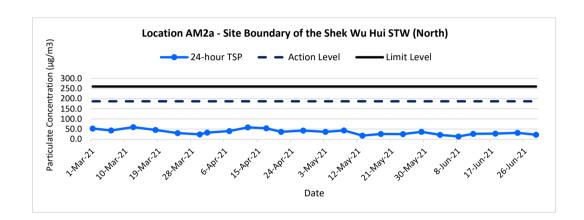
- (1) Weather conditions within the reporting period were generally sunny and cloudy.
- (2) Major construction activities carried out during the reporting period include ELS and excavation works, sheet-piling installation, RC works, backfilling, socket H piling, pipe jacking work, trench excavation, road and drainage works, diversion of inlet works, pre-drilling and foundation work, pre-bored H piles, cable diversion works, demolition works and trial pits excavation.
- (3) Other factors which might affect the monitoring results include road traffic at Sheung Shui Tung Hing Road.

Title	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Date Jun 2021	Project No. MA19019	CINOTCCU
	Graphical Presentation of 1-hour TSP Monitoring Results		Appendix G	CINOICCI

APPENDIX H GRAPHICAL PRESENTATIONS OF AIR QUALITY MONITORING RESULTS (24-HOUR)

#### 24-hr TSP Concentration Levels





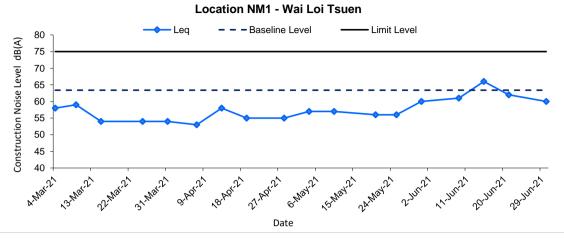
#### Remarks:

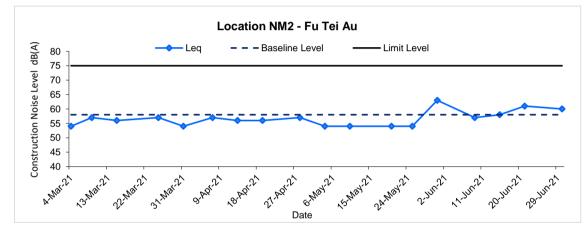
- (1) Weather conditions within the reporting period were generally sunny and cloudy.
- (2) Major construction activities carried out during the reporting period include ELS and excavation works, sheet-piling installation, RC works, backfilling, socket H piling, pipe jacking work, trench excavation, road and drainage works, diversion of inlet works, pre-drilling and foundation work, pre-bored H piles, cable diversion works, demolition works and trial pits excavation.
- (3) Other factors which might affect the monitoring results include vehicle movement within SWHSTW.

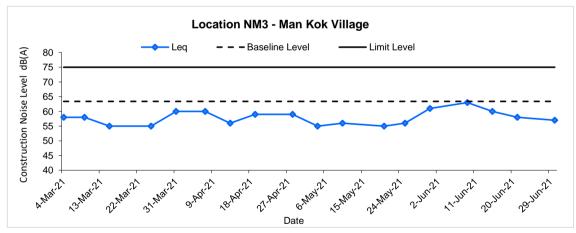
Title Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Jun 2021	Project No.	MA19019	CINOTCCL
Graphical Presentation of 24-hour TSP Monitoring Results		Appendix	Н	CINOICCI

### APPENDIX I GRAPHICAL PRESENTATIONS OF NOISE MONITORING RESULTS

# **Noise Levels** - Limit Level







#### Remarks:

- (1) Weather conditions within the reporting period were generally sunny and cloudy.
- (2) Major construction activities carried out during the reporting period include ELS and excavation works, sheet-piling installation, RC works, backfilling, socket H piling, pipe jacking work, trench excavation, road and drainage works, diversion of inlet works, pre-drilling and foundation work, pre-bored H piles, cable diversion works, demolition works and trial pits excavation.
- (3) Other factors which might affect the monitoring results include railway noise and road traffic at Sheung Shui Tung Hing Road.and Po Wan Road.

Title	Date	Project	
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Jun 2021	No. MA19019	CINOTECH
Graphical Presentation of Construction Noise Monitoring Results		Appendix	CINOTCCIT

### APPENDIX J SUMMARY OF ECOLOGICAL MONITORING ANALYSIS

# **Appendix J – Summary of Ecology Monitoring Analysis**

**Reporting Quarter:** April – June 2021

Table J-1 Summary Result of T-Test Analysis for All Waterbirds

T-values of	Doto*	Confidence Level					
1-values of	Data*	95%	99%				
	Monthly	✓	✓				
April 2021	Season	✓	✓				
	Overall	✓	✓				
	Monthly	✓	✓				
May 2021	Season	✓	✓				
	Overall	✓	✓				
	Monthly	×	✓				
June 2021	Season	✓	✓				
	Overall	<b>√</b>	<b>─</b> ✓				

#### Remarks:

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

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

# **Appendix J – Summary of Ecology Monitoring Analysis**

Table J-2 Summary Result of T-test Analysis for Representative Waterbirds from Point Count

	Representative Species	Compliance*			
Species Name	Common Name	Chinese Name	April 2021	May 2021	June 2021
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	✓	<b>√</b>	✓
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	✓	<b>✓</b>	✓

#### Remarks:

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

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

## APPENDIX K SUMMARY OF EXCEEDANCES

## Appendix K – Summary of Exceedance

**Reporting Quarter:** April – June 2021

## (A) Exceedance Report for Air Quality

(NIL in the reporting quarter)

## (B) Exceedance Report for Construction Noise

(NIL in the reporting quarter)

## (C) Exceedance Report for Ecology

(NIL in the reporting quarter)

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

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

**Reporting Quarter**: April – June 2021

**Table L-1** Environmental Complaint Records

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

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

Log Ref.	Location	Received Date	Details of Complaint	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>	Closed

2

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

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

Table L-2 Environmental Warning/Summon and Prosecution Records

Log Ref.	Location Received Date		Details of Warning/Summon and Prosecution	Status
N/A	N/A	N/A	N/A	N/A

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

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