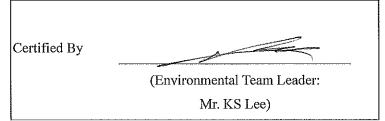
Drainage Services Department

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

Quarterly EM&A Summary Report December 2019 to March 2020

(Version 1)



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

Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk



Ref.: DSDSWHS1EM00_0_0051L.20

19 May 2020

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 December 2019 to March 2020

Reference is made to the Environmental Team's submission of Quarterly EM&A Summary Report for December 2019 to March 2020 (Version 1) certified by the ET Leader and provided to us via e-mail on 19 May 2020.

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

Ray Yan

Independent Environmental Checker

c.c.

DSD

Attn.: Ms Konica Cheung

Cinotech Attn.: Mr K. S. Lee

(By Fax: 3104 6420) (By Fax: 3107 1388)

 $\label{thm:linear_Q:ProjectsDSDSWHS1EM00_0_0051L.20.docx} Q:\Projects\DSDSWHS1EM00\02\Proj_Mgt\02\Corr\DSDSWHS1EM00_0_0051L.20.docx$

TABLE OF CONTENTS

	Page
EXECUTIVE SUMMARY	
Introduction	
Summary of Evapodeness, Investigation and Follow up	
Summary of Exceedances, Investigation and Follow-up Complaint Handling, Prosecution and Public Engagement	2 3
Reporting Changes	
Future Key Issues	
1 INTRODUCTION	
Background	5
Project Organizations	
Construction Activities Undertaken During the Reporting Quarter	6
2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS	8
Monitoring Parameters and Monitoring Locations	8
Environmental Quality Performance Limits (Action and Limit Levels)	8
Monitoring Methodology	
Implementation Status of Environmental Mitigation Measures	
Site Audit Summary	
Status of Waste Management	8
3 MONITORING RESULTS	9
Weather Conditions	9
Air Quality	
Construction Noise	
Ecology	
Water Quality	
Waste ManagementLandscape and Visual	
Influencing Factors on the Monitoring Results	
4 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUA	LITY
PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)	
Summary of Exceedances	
Review of the Reasons for and the Implications of Non-compliance	
5 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS	13
Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Pro	gramme13
Review on Effectiveness of Mitigation Measures	_
Recommendations	14

LIST OF TABLES

Table I	Summary Table for Major Site Activities in the Reporting Quarter
Table II	Non-compliance Record for the Project in the Reporting Quarter
Table III	Summary Table of Complaints, Summons, Prosecutions and Public Engagement
	Activities in the Reporting Quarter
Table IV	Summary Table for Site Activities in the Next Reporting Period
Table 1.1	Key Project Contacts
Table 1.2	Summary Table for Major Site Activities in the Reporting Quarter
Table 3.1	Major Dust Sources during the Monitoring in the Reporting Period
Table 3.2	Major Noise Sources during the Monitoring in the Reporting Period
Table 3.3	Observations during Ecological Monitoring in the Reporting Period
Table 4.1	Summary of Complaint in the Reporting Quarter

LIST OF FIGURES

Figure 1.1	Layout Plan of the Project Site
Figure 1.2	Project Organisation for Environmental Monitoring and Audit
Figure 2	Locations of Air Quality Monitoring Stations
Figure 3	Locations of Construction Noise Monitoring Stations
Figure 4	Survey Location for Impact Ecological Monitoring

LIST OF APPENDICES

Appendix A	Construction Programme
Appendix B	Monitoring Requirements
Appendix C	Action and Limit Levels
Appendix D	Environmental Mitigation Implementation Schedule (EMIS)
Appendix E	Site Audit Summary
Appendix F	Waste Flow Table
Appendix G	Graphical Presentations of Air Quality Monitoring Results (1-hour)
Appendix H	Graphical Presentations of Air Quality Monitoring Results (24-hour)
Appendix I	Graphical Presentations of Noise Monitoring Results
Appendix J	Summary of Ecological Monitoring Analysis
Appendix K	Summary of Exceedances
Appendix L	Summaries of Environmental Complaint, Warning, Summon and Notification of
	Successful Prosecution

EXECUTIVE SUMMARY

Introduction

1. This is the 1st 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 December 2019 and March 2020, with the actual construction works commenced since 3rd January 2020.

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 DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	 Site clearance and preparation Underground utility detection H-piles installation Sheet piling installation Drainage diversion work Demolition of existing structure Tree felling works Hoarding installation Trial pit excavation for underground utility Predrilling works Site daily cleaning tidy up and clearance Pre-drilling works Demolition works Drainage and underground utilities Sheet pile construction Trial pit works Underground utilities detection
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis	No construction activities in the reporting quarter.
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	No construction activities in the reporting quarter.

1

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

Air Quality

- Water spraying on haul road was done to minimize dust generation.
- Stockpiles were covered by impervious sheets.
- The public road was kept free from dust and soil.

Water Quality

- Ponding water was pumped and collected in the sedimentation tank.
- Manholes were covered by impervious sheets to prevent muddy water flowing into the drainage system.
- Water from road washing should not fall into the drainage system.

Waste Management

- Waste pile was covered by impervious sheets.
- Unused waste and materials were removed to maintain the tidiness of the site.
- General refuse was removed to avoid waste accumulation.

Summary of Exceedances, Investigation and Follow-up

- 4. Since no actual construction works were carried out in December 2019, no air quality, construction noise and ecological monitoring were conducted. Thus, Action and Limit Level exceedances for air quality, construction noise and ecological monitoring were not applicable in December 2019.
- 5. Exceedance of Action/Limit levels between January and March 2020 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

Table II Non-compliance Record for the Project in the Reporting Quarter			
Parameter	No. of Exceedance		Investigation
Farameter	Action Level	Limit Level	Result
January 2020			·
Air Quality (1-hour TSP)	0	0	N/A
Air Quality (24-hour TSP)	0	0	N/A
Noise	0	0	N/A
Ecology	1	0	Non-project related
February 2020			
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
March 2020			
Air Quality (1-hour TSP)	0	0	N/A
Air Quality (24-hour TSP)	0	0	N/A
Noise	0	0	N/A
Ecology	1	0	Non-project related

- 6. No exceedance was recorded at any air quality monitoring station during the reporting period.
- 7. No exceedance was recorded at any noise monitoring station during the reporting period.

8. 2 Action Levels and no Limit Level were triggered for ecology monitoring during the reporting period.

Complaint Handling, Prosecution and Public Engagement

9. 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

E-von4	Ev	ent Details Follow-up/ Remedial Actions		Status/
Event	Number	Brief Description	Follow-up/ Remedial Actions	Remarks
Complaints Received	1	Muddy water was suspected to be discharged from the expansion site of SWHSTP to Shek Sheung River, manholes and foul drains nearby	 Employed suction truck and dump truck to clear the silt and mud at Shek Sheung River Arranged to repair the wastewater treatment system Installed additional sedimentation tanks and wastewater treatment system to increase the on-site treatment capacity 	Investigation undergoing
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

Reporting Changes

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

Future Key Issues

11. 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	 Underground utility detection H-piles installation Sheet piling installation Drainage diversion work
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	 Site daily cleaning tidy up and clearance Pre-drilling works Demolition works Drainage and underground utilities Sheet pile construction
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis	Site clearance and fencing work
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	 Preparation work of E&M installation at temporary filtrate lifting well and equalization tank Preparation work of modification of existing emergency generator electrical works

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 3rd January 2020. This is the 1st Quarterly EM&A Summary Report summarizing the EM&A works for the Project between December 2019 and March 2020, with the actual construction works commenced since 3rd January 2020.

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	Mr. Henry Tai	3792 0580
Cinatash	Environmental Teem	Mr. KS Lee (ET Leader)	2151 2091
Cinotech	Environmental Team	Ms. Betty Choi	2151 2072
Ramboll	Independent Environmental Checker	Mr. Ray Yan	3465 2836
KLCWJV	Contractor (DC/2018/06)	Mr. Yip Yun Lam	9532 7174
KLCWJV	Contractor (DC/2018/07)	Mr. Karsten Kwong	9771 0059
JEC	Contractor (DE/2018/03)	Mr. Lau Kim Hung	2947 1125
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	 Site clearance and preparation Underground utility detection H-piles installation Sheet piling installation Drainage diversion work Demolition of existing structure Tree felling works Hoarding installation Trial pit excavation for underground utility Predrilling works
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	 Site daily cleaning tidy up and clearance Pre-drilling works Demolition works Drainage and underground utilities Sheet pile construction Trial pit works Underground utilities detection

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	No construction activities in the reporting quarter.
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	No construction activities in the reporting quarter.

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. 2 Action Levels were triggered for ecological monitoring between January and March 2020. No Limit Level was triggered.
- 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 Period

Monitoring Stations	Major Dust Source
AM1 - Wai Loi Tsuen	Village House Renovation Works and Road
AWII - Wai Loi Tsucii	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 Period

Monitoring Stations	Major Noise Source
	Railway Noise, Village House Renovation
NM1 - Wai Loi Tsuen	Works 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 Period

Tubic 5.5 Ob	ser vacious during Debiogreal Mon	ntoring in the Reporting 1 criou
Location	Project Related	Non-Project Related
T1 (PC1, PC2)	Construction activities	Fishing, remote boating, dogs,
11 (FC1, FC2)	(breaking, excavation)	jaywalking, dump truck
T2 (PC3, PC4)	Construction activities (breaking, drilling, sheet-piling, excavation, vibration hammer and pre-boring)	Fishing, construction activities (breaking), jaywalking
PC5	Construction activities (sheet-piling), muddy water	Moving of shrubs
T3 (PC6, PC7)	Construction activities (vibration hammer)	Fishing, open burning outside works area, dogs, filming

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 2 Action Levels were triggered and no Limit Level exceedance was recorded for ecological monitoring in the reporting quarter. As the decline in numbers of Chinese Pond Heron was considered non-project related, no remedial measure for the project is proposed.
- 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 1 environmental complaint regarding muddy water discharge near SWHEPP was received during the reporting quarter. Complaint investigation was carried out and the summary of the complaint is provided in **Table 4.1**.

 Table 4.1
 Summary of Complaint in the Reporting Quarter

Received Date	Date of Incident / Location	Summary	Follow-up/ Remedial Actions	Status/ Remarks
18 March 2020	Mid-February – March 2020 / Expansion Site of SWHSTP	Muddy water was suspected to be discharged from the expansion site of SWHSTP to Shek Sheung River, manholes and foul drains nearby	 Employed suction truck and dump truck to clear the silt and mud at Shek Sheung River Arranged to repair the wastewater treatment system Installed additional sedimentation tanks and wastewater treatment system to increase the onsite treatment capacity 	Investigation undergoing

- 4.8 No warning, notifications of summons and environmental prosecution was received during the reporting quarter.
- 4.9 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 1 environmental complaint was received in the reporting quarter. The details were attached in the **Appendix L**.
- 5.7 No warning, notifications of summons and environmental prosecution was received in the reporting quarter. The details were attached in the **Appendix L**.
- The effectiveness of environmental management is satisfactory given that the recommendations given in the site inspections performed in the reporting period are met.

Recommendations

5.9 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.
- The public road should keep free from dust and soil.

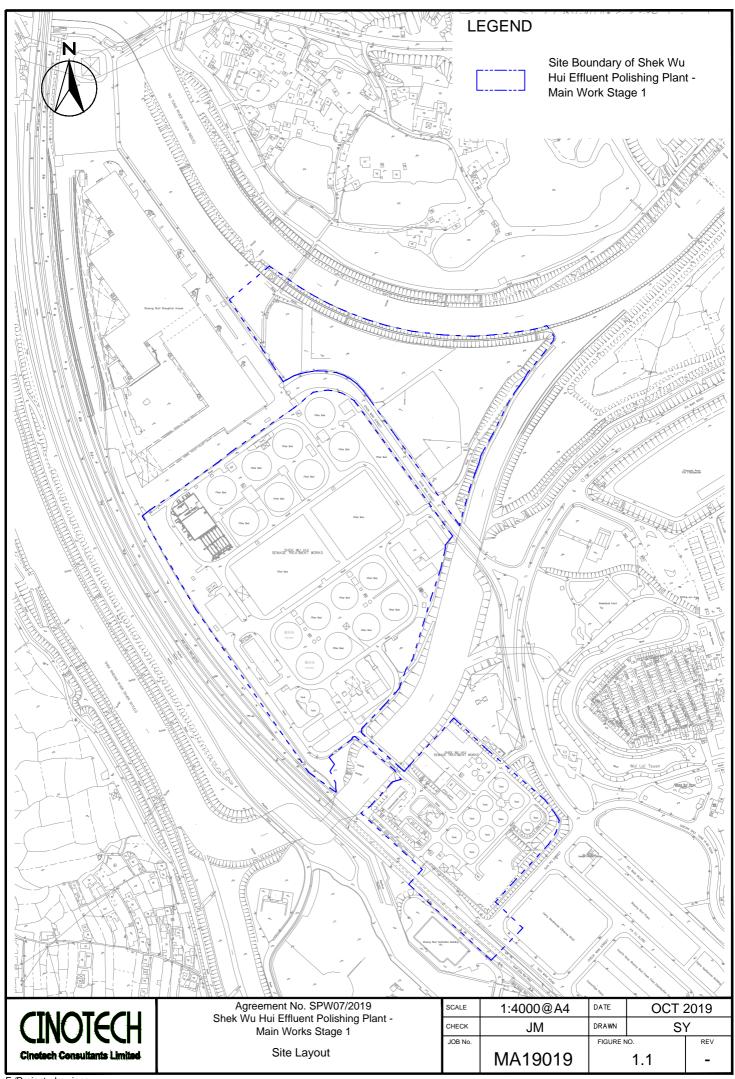
Water Quality

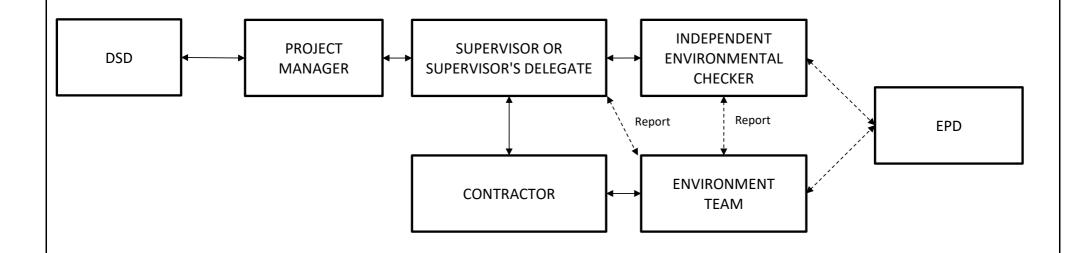
- Standing or ponding water should be removed as far as practicable.
- Muddy water should pump through the sedimentation tank.
- Untreated water from road washing should not fall into the manholes and drainage system.
- Muddy water should not be discharged directly into the surrounding rivers.
- No slurry should be disposed of at the existing Shek Wu Hui Sewage Treatment Works.

Waste Management

Waste accumulation on-site should be prevented.

FIGURES



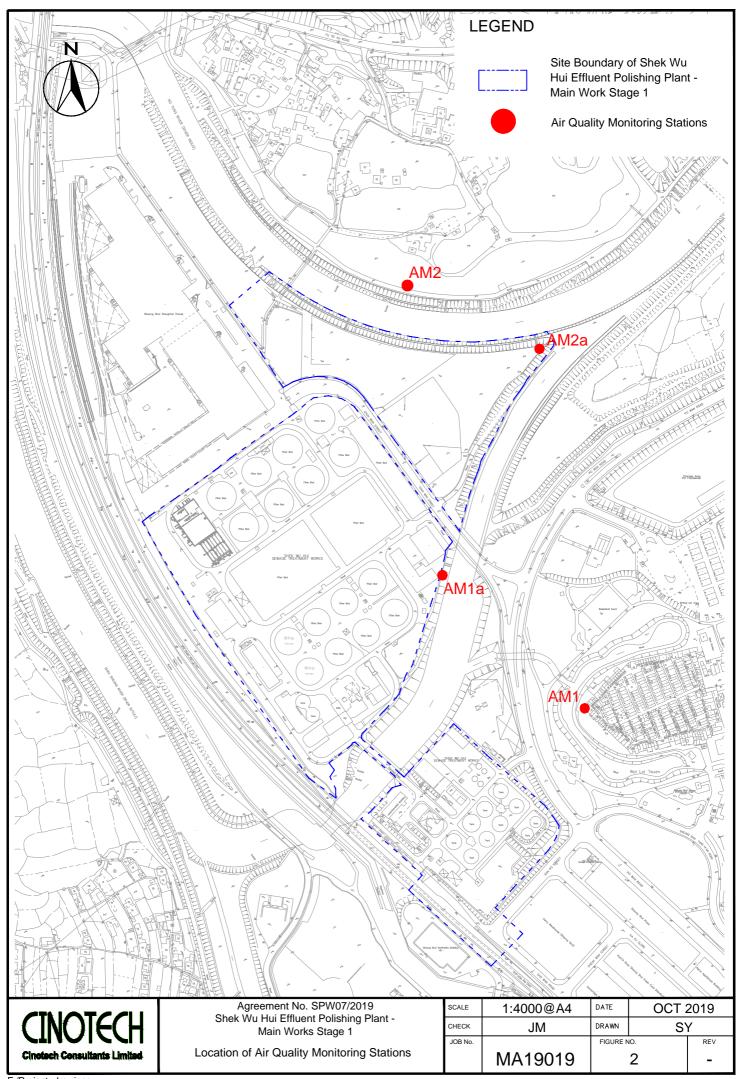


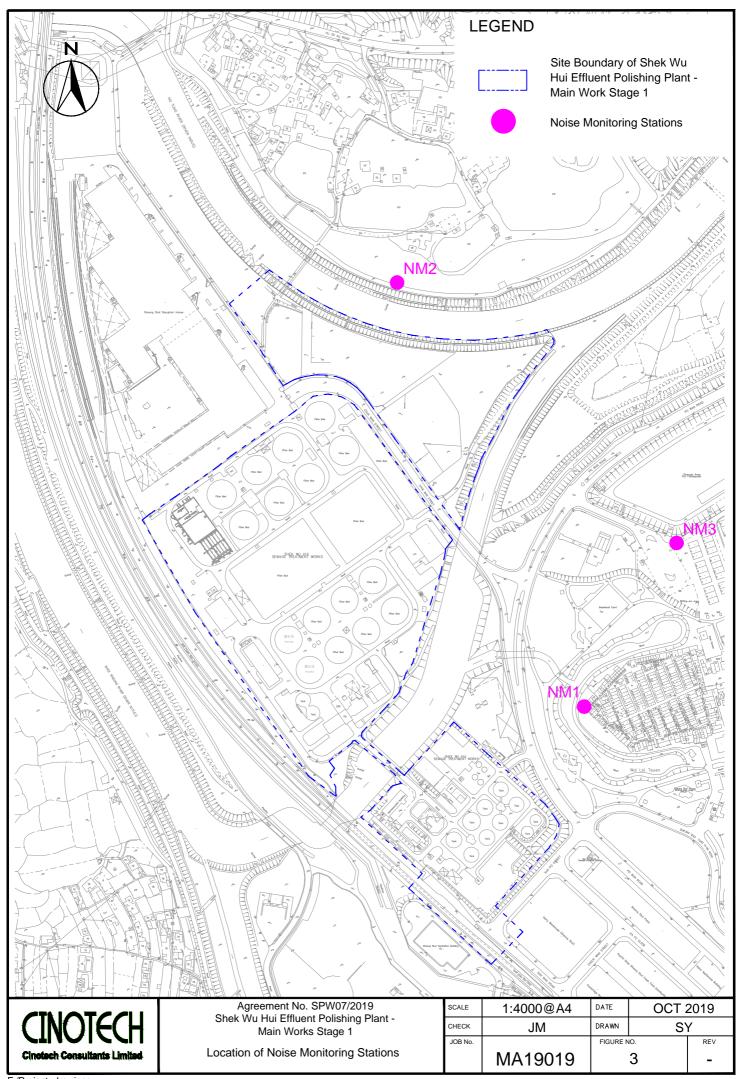
CIN		IECH
	_	

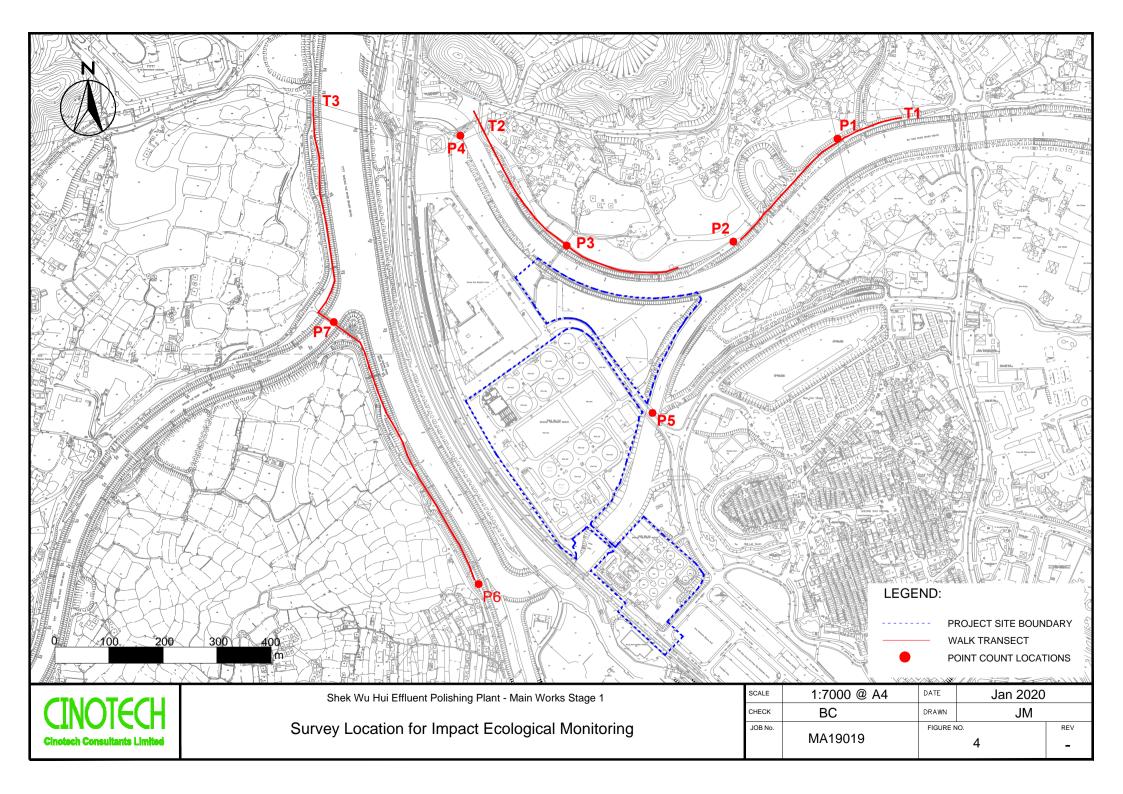
Agreement No. SPW07/2019 Shek Wu Hui Effluent Polishing Plant- Main Works Stage 1

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

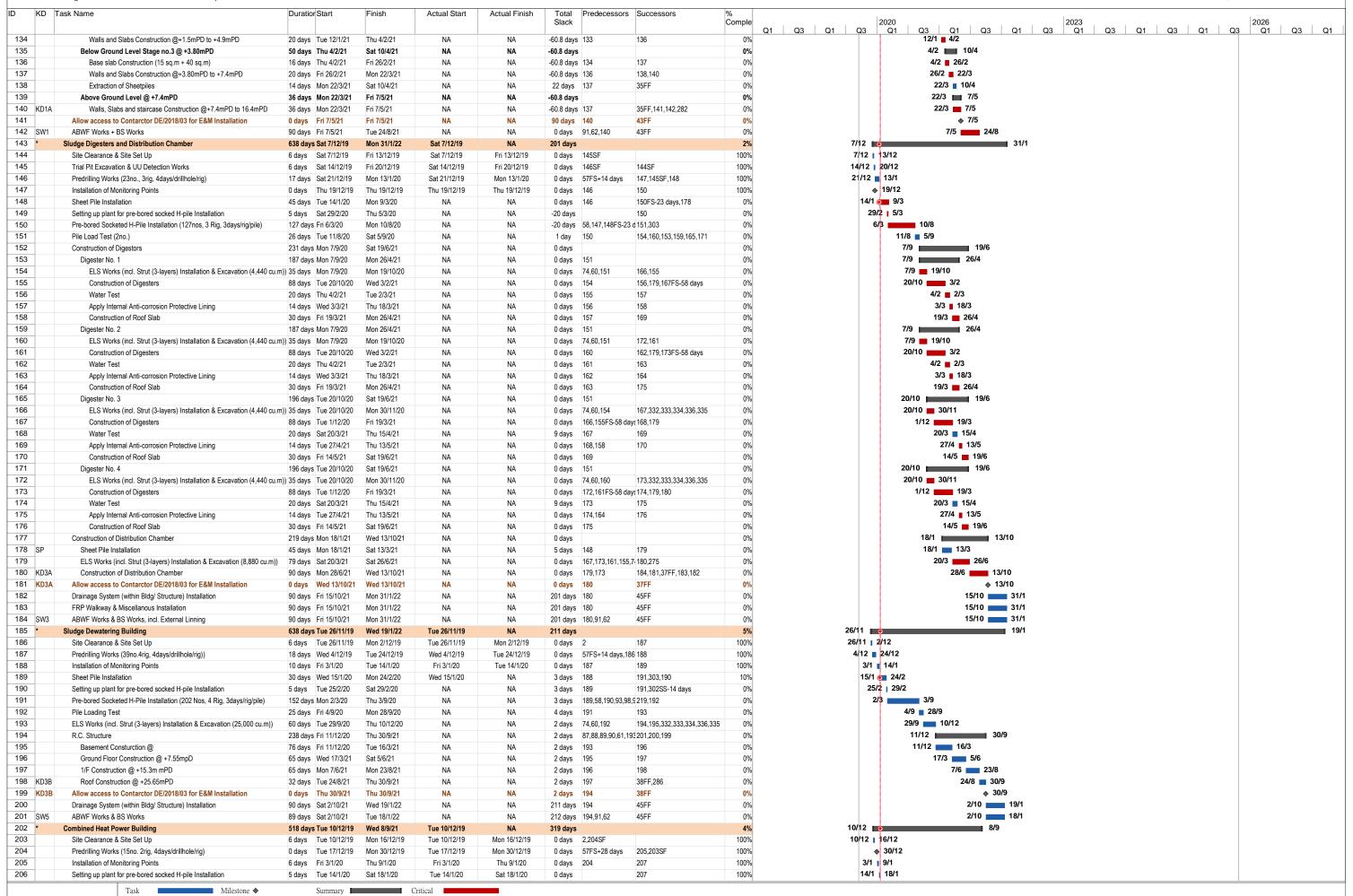


עט	Task Name	Duratior Start	Finish	Actual Start	Actual Finish	Total Predecessors Successors %	omple	ole Q1 Q3
	Contract Dates	2229.2 da Mon 16/9/19	Thu 23/10/25	Mon 16/9/19	NA	0 days	0%	Q1 Q3 Q1 Q1 Q1 Q3 Q1 Q1 Q1 Q3 Q1
	Starting Date	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 4,5FS+180 days,6,7,8,9,11,12,1	100%	0% • 16/9
	Access Date (cal. day)	180 days Mon 16/9/19	Fri 13/3/20	Mon 16/9/19	NA	0 days	99%	
	Portion A-1	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	0% ♦ 16/9
	Portion A-2	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2FS+180 days	100%	
	Portion C-1A	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	0% ♦ 16/9
	Portion C-1B	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	0% ♦ 16/9
	Portion C-2A	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	0% ♦ 16/9
	Portion C-2B	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	0% • 16/9
	Portion C-2C	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	0% ♦ 16/9
	Portion C-2D	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	0% ♦ 16/9
	Portion C-3	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	
	Portion C-4	0 days Mon 16/9/19		Mon 16/9/19	Mon 16/9/19	0 days 2	100%	
	Portion C-5	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	
	Portion C-6	0 days Fri 13/3/20	Fri 13/3/20	NA	NA	0 days 2FS+180 days 311,303	0%	
	Works Area WA1	1 day Mon 16/9/19		Mon 16/9/19	Mon 16/9/19	0 days 2	100%	
	Works Area WA2-A	1 day Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	
			Mon 3/1/22	NA	NA	-	0%	
	Key Date (cal. day) KD1A (525 days after starting date)	840 days Tue 17/9/19	Mon 22/2/21	NA NA	NA NA	0 days	0%	
	· · · · · · · · · · · · · · · · · · ·	525 days Tue 17/9/19		NA NA		0 days	0%	
	KD2A (660 days after starting date)	660 days Tue 17/9/19	Wed 7/7/21		NA NA	0 days		
	KD3A (760 days after starting date)	760 days Tue 17/9/19	Fri 15/10/21	NA	NA NA	0 days	0%	
	KD3B (750 days after starting date)	750 days Tue 17/9/19	Tue 5/10/21	NA NA	NA	0 days	0%	
	KD3C (750 days after starting date)	750 days Tue 17/9/19	Tue 5/10/21	NA	NA	0 days	0%	
	KD3D (660 days after starting date)	660 days Tue 17/9/19	Wed 7/7/21	NA	NA	0 days	0%	
	KD3E (840 days after starting date)	840 days Tue 17/9/19		NA	NA	0 days	0%	
	Completion Date (cal. day)	2228.2 da Tue 17/9/19	Thu 23/10/25	NA	NA	0 days	0%	
	Section 1 of Works (675 days after starting date)	675 days Tue 17/9/19		NA	NA	0 days	0%	
	Section 2 of Works (1,295 days after starting date)	1294 day: Tue 17/9/19	Sun 2/4/23	NA	NA	0 days	0%	
	Section 3 of Works (1,120 days after starting date)	1120 day: Tue 17/9/19	Mon 10/10/22	NA	NA	0 days	0%	0% ♦ 10/10
	Section 4 of Works (900 days after starting date)	900 days Tue 17/9/19	Fri 4/3/22	NA	NA	0 days	0%	0% ♦ 4/3
	Section 5 of Works (1,590 days after starting date)	1590 day: Tue 17/9/19	Tue 23/1/24	NA	NA	0 days 32,33	0%	0%
	Defect Liability Period	365 days Wed 24/1/24	Thu 23/10/25	NA	NA	0 days 31	0%	0% 23/10
	Soft Landscape Establishment Works	365 days Wed 24/1/24	Wed 22/1/25	NA	NA	0 days 31	0%	24/1
	Planned Completion - Key Date (cal. day)	314 days Fri 7/5/21	Thu 17/3/22	NA	NA	-74.8 days	0%	7/5
)1A		0 days Fri 7/5/21	Fri 7/5/21	NA	NA	-74.8 days 140FF,138FF,330,	0%	0% ♦ 7/5
)2A	, , ,	0 days Mon 27/9/21	Mon 27/9/21	NA	NA	-83 days 366FF	0%	
3A	, , , ,	0 days Wed 13/10/2		NA NA	NA NA	0 days 180FF,181FF	0%	
3B	, , ,	0 days Wed 13/10/2 0 days Thu 30/9/21	Thu 30/9/21	NA NA	NA NA	4 days 198FF,199FF	0%	
	, , ,							
3C	, , , , ,	0 days Mon 24/5/21	Mon 24/5/21	NA	NA	133 days 210FF,211FF	0%	
)3D	, ,	0 days Mon 17/5/21	Mon 17/5/21	NA	NA	50 days 236FF,237FF	0%	
	KD3E (840 days after starting date)	0 days Thu 17/3/22	Thu 17/3/22	NA	NA	-73.8 days 253FF,248FF,284F	0%	
_	Planned Completion - Section of the Works (cal. day)	1245.2 da Tue 24/8/21	Mon 20/1/25	NA	NA	-33.8 days	0%	24/8 20/1
	Section 1 of Works (675 days after starting date)	0 days Tue 24/8/21	Tue 24/8/21	NA	NA	-33.8 days 142FF,309FF,141F	0%	
2	(, , , , , , , , , , , , , , , , , , ,	0 days Mon 13/3/23	Mon 13/3/23	NA	NA	20 days 371FF,368FF,370F	0%	
3	Section 3 of Works (1,120 days after starting date)	0 days Mon 25/4/22	Mon 25/4/22	NA	NA	167 days 212FF,213FF,238F	0%	
/4	Section 4 of Works (900 days after starting date)	0 days Wed 23/3/22	Wed 23/3/22	NA	NA	-20 days 269FF,273FF,304F	0%	
15	Section 5 of Works (1,590 days after starting date)	0 days Mon 22/1/24	Mon 22/1/24	NA	NA	0 days 341FF,339FF,340F	0%	0%
	Defect Liability Period	0 days Mon 20/1/25	Mon 20/1/25	NA	NA	0 days 343FF	0%	
	Soft Landscape Establishment Works	20 days Wed 1/1/25	Mon 20/1/25	NA	NA	0 days 343FF	0%	1/1 20/1
	Submissions (cal. day)	1054 day Mon 16/9/19	Thu 4/8/22	Mon 16/9/19	NA	20 days	62%	
	Subletting Package	536 days Mon 16/9/19	Thu 4/3/21	Mon 16/9/19	NA	63.8 days	52%	2% 16/9 4/3
	Prepare & Submit Subletting Procedures	1 day Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2 53	100%	
	PM Review & Accept Subletting Procedures	21 days Mon 16/9/19	Mon 7/10/19	Mon 16/9/19	Mon 7/10/19	0 days 52 55,57,54,56	100%	
	Subletting for Preliminary Works (Instrumentation Monitoring etc.)	30 days Mon 7/10/19		Mon 7/10/19	Wed 6/11/19	0 days 53 311	100%	
	Subletting for Drainage Diversion Works for UV System no.1& Effluent	44 days Tue 8/10/19		Tue 8/10/19	Wed 20/11/19	0 days 53 308	100%	
	Pumping Station No.1					'	- 1	
	Subletting for the Temporary Site accommodation (On hold)	8 days Thu 14/11/19	Thu 21/11/19	Thu 14/11/19	NA	32 days 53 111	99%	9% 14/1 <u>*</u> 21/11
	Subletting for Pre-drilling Works	49 days Sat 12/10/19		Sat 12/10/19	Fri 29/11/19	0 days 53 58SS+15 days,59SS+15 days,1	100%	
	Subletting for Pre-bored Socketed Steel H-Pile	45 days Mon 18/11/19		Mon 18/11/19	NA	7.25 days 57SS+15 days 355,150,191,207,220,230,245,1	90%	
	Subletting for Contractor's Designer for Temporary Works	32 days Fri 25/10/19		Fri 25/10/19	Wed 27/11/19	0 days 57SS+15 days 61,60,74,62,63,64	100%	
	Subletting for ELS Works	60 days Fri 20/12/19		Fri 20/12/19	NA NA		80%	
	Capielling ior LLO Monto	00 uays F11 20/12/19	IVIOII IIIZIZU	11120/12/19	INA	105 days 59 127,154,160,166,172,179,193,2	00 /0	
	Cublatting for D.C.Warks	60 days Mar 4/0/00	Thi: 20/7/00	NI A	NI A	4 days 50 404 040 000 000 070 070 0	00/	0% 1/6 30/7
	Subletting for R.C Works	60 days Mon 1/6/20	Thu 30/7/20	NA	NA	-4 days 59 128,194,210,223,359,272,252,2	0%	
	Subletting for ABWS & BS Works	60 days Mon 4/1/21	Thu 4/3/21	NA	NA	63.8 days 59 142,184,201,213,224,239,254,2	0%	
	Subletting for Pipeworks, Utilities, and Roadworks	60 days Mon 2/3/20	Thu 30/4/20	NA	NA	227 days 59 336,333,334,335,332	0%	
	Subletting for Hard Landscape, Soft Landscape, and others	60 days Mon 8/6/20	Thu 6/8/20	NA	NA	0 days 59 339,340,341,343	0%	
	Statutory Submission, Submission & Approval	1054 day Mon 16/9/19		Mon 16/9/19	NA	20 days	82%	
	Prepare and Submit Subcontractor Management Plan (SMP)	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	
	Prepare and Submit Interface Management Plan	60 days Mon 16/9/19	Thu 14/11/19	Mon 16/9/19	NA	0 days 2	58%	
	Prepare TTA Plan, submit & approve for footpath for Stage 1 - Drainage	51 days Mon 16/9/19	Tue 5/11/19	Mon 16/9/19	Tue 5/11/19	0 days 2 308,70	100%	0% 16/9 5/1
	Diversion							
	Prepare TTA Plan, submit & approve for carriageway at Chuk Wan Road fo	45 days Mon 16/9/19	Wed 30/10/19	Mon 16/9/19	NA	0 days 2	78%	8% 16/9 c 30/10
	CLP 13kV substation							



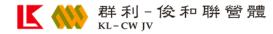
ID Task Name		Duratior Start	Finish	Actual Start	Actual Finish	Total Predecessors Slack		% Comple	2020 2023 2023
									Q1 Q3
Excavation Permit Application		38 days Mon 16/9/19		Mon 16/9/19	NA	-88.6 days 68	374FS+60 days,373FS+60 days		16/9 128/1
Approval for Lighting Remova	at Portion C-1A of the Site from Hyd	68 days Mon 16/9/19	Fri 22/11/19	Mon 16/9/19	Fri 22/11/19	0 days 2	120	100%	16/9 22/11
	commencement of Works near MTRCL	43 days Mon 16/9/19	Mon 28/10/19	Mon 16/9/19	Mon 28/10/19	0 days 2	353,350	100%	16/9 28/10
protection zone at Sun Wan R	oad from MTRCL								
Prepare, submit & approve the	layout plan of the Temporary Site	60 days Fri 25/10/19	Mon 23/12/19	Fri 25/10/19	NA	0 days 2	111	50%	25/10 23/12
accommodation (PPMI no.001) (On hold)								
Prepare, submit & approve the	ELS design for deep excavation	47 days Thu 7/11/19	Mon 23/12/19	Thu 7/11/19	Mon 23/12/19	0 days 59	127,154,160,166,172,179,193,2	100%	7/11 23/12
	Method Statement for Drainage Diversion	27 days Mon 16/9/19		Mon 16/9/19	Sat 12/10/19	0 days 2	308,76	100%	16/9 12/10
Works	Welliou Statement for Drainage Diversion	21 days WOIT 10/3/13	Sat 12/10/19	WOTT 10/3/13	3at 12/10/19	0 days 2	300,70	100 /6	133
		44.1 0 00404		0 00110110		21 75		2001	2010 - 214
PM approve the Method State	ment for Drainage Diversion Works	14 days Sun 20/10/1	9 Sat 2/11/19	Sun 20/10/19	NA	0 days 75		80%	20/10 @ 2/11
	the FSD submissions for CLP 132kV	60 days Mon 6/6/22	Thu 4/8/22	NA	NA	20 days	371	0%	6/6 4/8
Substation									
Environmental Aspect Submis	sions	120 days Mon 16/9/19	Mon 13/1/20	Mon 16/9/19	Mon 13/1/20	0 days 2		100%	16/9
Prepare, submit & approve	Site Management Plan for Trip Tricket System	58 days Mon 16/9/19	Tue 12/11/19	Mon 16/9/19	Tue 12/11/19	0 days 2		100%	16/9 🖿 12/11
.,,	, , , , , , , , , , , , , , , , , , ,					,			
Prepare, submit & approve	Waste Management Plan	57 days Mon 16/9/19	Mon 11/11/19	Mon 16/9/19	Mon 11/11/19	0 days 2		100%	16/9 11/11
	•	•		Mon 16/9/19				100%	16/9 4/11
riepare, submit & approve	Environmental Management Plan	50 days Mon 16/9/19	IVIOI1 4/ 1 1/ 19	IVIOTI 10/9/19	Mon 4/11/19	0 days 2		100%	100
N 00 0		FF 44 1 144 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	10///22	144 1 044 2 112	10///22		200 200	4000	040 - 1404
Notification to EPD for Wor	ks Commencement	55.44 day Wed 9/10/19		Wed 9/10/19	Mon 13/1/20	0 days	308,329	100%	9/10 13/1
Procurement		548 days Mon 16/9/19	Tue 16/3/21	Mon 16/9/19	NA	51.8 days		27%	16/9
Prepare and submit the Procu	rement Procedure	34 days Mon 16/9/19	Sat 19/10/19	Mon 16/9/19	Sat 19/10/19	0 days	85	100%	16/9 = 19/to
PM Review & Accept Procure	nent Procedure	0 days Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	0 days 84	86,87,88	100%	♦ 19/10
Prepare, submit and approve		45 days Sun 20/10/1		Sun 20/10/19	NA	44.1 days 85	305	80%	20/10 📷 3/12
Prepare, submit and approve	• • • • • • • • • • • • • • • • • • • •	30 days Mon 15/6/20		NA	NA NA	12 days 85	128,194,210,223,359	0%	15/6 14/7
				NA NA	NA NA			0%	
Prepare, submit and approve		60 days Sat 1/2/20	Tue 31/3/20			57 days 85	128,194,210,223,359,89		1/2 31/3
Prepare, submit and approve		30 days Mon 11/5/20		NA	NA	17 days 88	90,128,194,210,223,359	0%	11/5 9/6
Prepare, submit and approve	he metal works material	30 days Wed 10/6/20		NA	NA	17 days 89	91,128,194,210,223,359	0%	10/6 9/7
Prepare, submit and approve	he ABWF works material	30 days Mon 15/2/21	Tue 16/3/21	NA	NA	51.8 days 90	142,184,201,213,224,239,254,2	0%	15/2 🔳 16/3
Preparation of Cost Saving Desig	1	243.8 day Wed 18/9/19	Mon 18/5/20	Wed 18/9/19	NA	-77.8 days		48%	18/9
Prepare, submit and approve C		136.2 day Wed 18/9/19		Wed 18/9/19	NA	10.8 days 2	150,191	65%	18/9
Prepare and submit CSD prop	· · ·	66 days Wed 18/9/19		Wed 18/9/19	Fri 22/11/19	0 days 2	95	100%	18/9 22/11
									23/11 29/11
PM review and approval of CS	U	7 days Sat 23/11/19		Sat 23/11/19	Fri 29/11/19	0 days 94	96	100%	
Obtain AIP		0 days Fri 29/11/19		Fri 29/11/19	Fri 29/11/19	0 days 95	98,97	100%	◆ ^{29/11}
PM review and approval of CS	D	42 days Fri 29/11/19	Thu 9/1/20	Fri 29/11/19	NA	33 days 96	150,191	20%	29/11 🧃 9/1
Obtain DDA		14 days Fri 29/11/19	Sat 1/2/20	Fri 29/11/19	NA	10.8 days 96	150,191	20%	29/11 📢 1/2
Prepare, submit and approve C	SD package no.2	243.8 day Wed 18/9/19	Mon 18/5/20	Wed 18/9/19	NA	-77.8 days 2	125,220	37%	18/9 18/5
Prepare and submit CSD prop	osal	95 days Wed 18/9/19		Wed 18/9/19	NA	-77.8 days 2	101	80%	18/9
PM review and approval of CS		35 days Mon 10/2/20		NA	NA NA	-77.8 days 100	102	0%	10/2 = 16/3
- ''	U .				NA NA			0%	16/3 6/4
Obtain AIP	D	21 days Mon 16/3/20		NA		-77.8 days 101	104,103		
PM review and approval of CS	U	42 days Mon 6/4/20	Mon 18/5/20	NA	NA	-77.8 days 102	125,220	0%	6/4 18/5
Obtain DDA		14 days Mon 6/4/20	Mon 20/4/20	NA	NA	-49.8 days 102	125,220	0%	6/4 20/4
Site Preliminary Works		166 days Mon 16/9/19		Mon 16/9/19	NA	0 days		68%	16/9 28/2
Initial Tree survey and report sub	mission	14 days Thu 26/9/19	Wed 9/10/19	Thu 26/9/19	Wed 9/10/19	0 days 2	108	100%	26/9 🛮 9/10
Prepare and submit and approve	the Method Statement of Tree felling &	72 days Mon 7/10/19	Tue 17/12/19	Mon 7/10/19	Tue 17/12/19	0 days 2	108	100%	7/10 17/12
Prunning works	-								
Mobilization for Hoarding		0 days Thu 21/11/1	9 Tue 26/11/19	Thu 21/11/19	Tue 26/11/19	0 days 2,116,106,107	109	100%	♦ 26/11
Hoarding Erection at Portion C		40 days Wed 27/11/1		Wed 27/11/19	NA	0 days 108	121	70%	27/11 15/1
•	-	· ·				·			<u> </u>
Utility applications and Connection		89 days Mon 16/9/19		Mon 16/9/19	NA NA	46 days 2	111FF	75%	16/9 2/1
Construction of Site Accommoda	, ,	52 days Tue 24/12/1		NA	NA	0 days 73,110FF,56		0%	24/12 = 28/2
Construction Works of Portion C	of the Site	1954 day Mon 16/9/19	Mon 20/1/25	Mon 16/9/19	NA	0 days		1%	16/9
UV System No. 1 & Effluent Pu	nping Station No. 1	575.8 day Mon 16/9/19	Tue 24/8/21	Mon 16/9/19	NA	0 days		12%	16/9
Preliminary Works		105 days Mon 16/9/19	Tue 21/1/20	Mon 16/9/19	Tue 21/1/20	0 days		100%	16/9 21/1
Site Clearance & Site Set I	lp .	23 days Mon 16/9/19		Mon 16/9/19	Mon 14/10/19	0 days 2	116,117,118	100%	16/9 14/10
Tree Felling Works	r	5 days Tue 15/10/1		Tue 15/10/19	Sun 20/10/19	0 days 115	108	100%	15/10 20/10
•	latastian Marka						100		
Trial Pit Excavation & UU [6 days Tue 15/10/1		Tue 15/10/19	Mon 21/10/19	0 days 115	10050 15 : :::	100%	15/10 21/10
Temporary Footpath Diver		20 days Mon 14/10/1		Mon 14/10/19	Tue 5/11/19	0 days 115	120FS-15 days,119	100%	14/10 5/11
Temporary diverted foorpa	h open to public	1 day Tue 10/12/1	Tue 10/12/19	Tue 10/12/19	Tue 10/12/19	0 days 118	308	100%	10/12 10/12
Removal of Existing Street	light and Provision of Temporary Street light	3 days Sat 18/1/20	Tue 21/1/20	Sat 18/1/20	Tue 21/1/20	0 days 71,118FS-15 day	s 308FS-5 days	100%	18/1 🍨 21/1
Predrilling Works (8no, 1rig	, 4days/drillhole/rig)	0 days Tue 3/12/19	Wed 11/12/19	Tue 3/12/19	Wed 11/12/19	0 days 308,331,330,57,1	0 122FS+14 days	100%	♦ 11/12
Installation of Monitoring P	* **	0 days Thu 19/12/1		Thu 19/12/19	Thu 19/12/19	0 days 121FS+14 days	•	100%	♦ 19/12
-	2200sq.m, 2 Rig, 50sqm/rig/day)	22 days Sat 4/1/20	Tue 28/4/20	Sat 4/1/20	NA	-51 days 122,308,329	124	5%	4/1 🔵 🔳 28/4
						· ·			29/4 6/5
Setting up plant for pre-bored		5 days Wed 29/4/20		NA NA	NA NA	-51 days 123	125	0%	
	tallation (34 Nos, 2 Rig, 3days/rig/pile)	51 days Mon 18/5/20		NA	NA	-60.8 days 58,124,99,104,10		0%	18/5 18/7
Pile Loading Test		26 days Sat 18/7/20	Thu 13/8/20	NA	NA	-72.8 days 125	127	0%	18/7 🔳 13/8
ELS Works (incl. Strut (4-laye	s) Installation & Excavation (3,700 cu.m)	45 days Thu 13/8/20	Wed 7/10/20	NA	NA	-60.8 days 74,60,126	130	0%	13/8 7/10
R.C. Structure (370sq.m)		171 days Wed 7/10/20		NA	NA	-60.8 days 87,88,89,90,61		0%	7/10
Below Ground Level Stag	e no.1 @ -1.10mPD	55 days Wed 7/10/20		NA.	NA	-60.8 days		0%	7/10 11/12
	•				NA NA		131	0%	7/10 6/11
Base slab Construction		25 days Wed 7/10/20		NA NA		-60.8 days 127	131		
	uction @-1.10mPD to +2.50mPD	30 days Fri 6/11/20	Fri 11/12/20	NA	NA	-60.8 days 130	133	0%	6/11 11/12
Below Ground Level Stag	e no.2 @ +1.50mPD	44 days Fri 11/12/20	Thu 4/2/21	NA	NA	-60.8 days		0%	11/12 📺 4/2
Base slab Construction	(170sq.m)	24 days Fri 11/12/20	Tue 12/1/21	NA	NA	-60.8 days 131	134	0%	11/12 🔳 12/1
Badd diab ddildii adiidii									





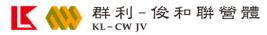


Civil Works for Sludge	Treatment Facilities and CLP 132kV Primary Substation					REVISEU WOLKS	Frogramme (Status L	<i>pate.</i> 20/01/2	KL-CW JV
) KD Task Na	ame	Duratior Start	Finish	Actual Start	Actual Finish	Total Predecessor	s Successors	% Comple	2020
								. Q	2020 11 Q3 Q1 Q3
	-bored Socketed H-Pile Installation (50 Nos, 2 Rig 3days/rig/pile)	75 days Sat 18/1/20	Wed 29/4/20	Sat 18/1/20	NA	110 days 58,205,206	208	5%	18/1 29/4
	Loading Test	26 days Sat 2/5/20	Mon 1/6/20	NA	NA	110 days 207	209	0%	2/5 1/6
	ravation for Pile Cap (2,060 cu.m)	90 days Tue 2/6/20	Wed 16/9/20	NA	NA	110 days 74,60,208	210	0%	2/6 16/9
	. Structure	200 days Thu 17/9/20	Mon 24/5/21	NA	NA		,209 39FF,212,213,211,278	0%	17/9 24/5
_	ow access to Contarctor DE/2018/03 for E&M Installation	0 days Mon 24/5/21	Mon 24/5/21	NA	NA	110 days 210	39FF	0%	♦ 24/5
	inage System (within Bldg/ Structure) Installation	60 days Tue 25/5/21	Wed 4/8/21	NA	NA	349 days 210	45FF	0%	25/5 4/8
	NF Works & BS Works	90 days Tue 25/5/21	Wed 8/9/21	NA	NA	319 days 210,91,62	45FF	0%	25/5 8/9
	pe Pumping Station	570 days Mon 25/5/20	Mon 25/4/22	NA NA	NA	55 days	0.40	0%	25/5 25/5 25/5
	Clearance & Site Set Up	6 days Mon 25/5/20	Sat 30/5/20	NA NA	NA NA	55 days 2	216	0%	25/5 30/5
	drilling Works (4no.1rig, 4days/drillhole/rig)	16 days Mon 1/6/20	Thu 18/6/20	NA	NA	55 days 57FS+14 days,		0%	1/6 1 18/6
	allation of Monitoring Points	6 days Fri 19/6/20	Fri 26/6/20	NA	NA	55 days 216	218	0%	19/6 26/6
	eet Pile Installation	30 days Sat 27/6/20	Sat 1/8/20	NA	NA	55 days 217	220	0%	27/6 1/8
	ting up plant for pre-bored socked H-pile Installation	5 days Fri 4/9/20	Wed 9/9/20	NA	NA	22 days 191	220	0%	4/9 9/9
	-bored Socketed H-Pile Installation (22 Nos, 1 Rig, 3days/rig/pile)	66 days Thu 10/9/20	Sat 28/11/20	NA	NA	22 days 58,218,219,99,		0%	10/9 28/11
	Loading Test	26 days Sun 29/11/20	Thu 24/12/20	NA	NA	28 days 220	222	0%	29/11 ■ 24/12
	S Works (incl. Strut (3-layers) Installation & Excavation (1,440 cu.m))	80 days Mon 28/12/20	Wed 7/4/21	NA	NA	21 days 74,60,221	223	0%	28/12 7/4
	S. Structure	200 days Tue 4/5/21	Fri 31/12/21	NA	NA	0 days 87,88,89,90,61		0%	4/5 31/12
	NF Works & BS Works	90 days Mon 3/1/22	Mon 25/4/22	NA	NA	136 days 91,62,223	45FF	0%	3/1 25/4
	hop No. 2	501 days Tue 24/12/19	Thu 2/9/21	Tue 24/12/19	NA	324 days		3%	24/12
	Clearance & Site Set Up	3 days Tue 24/12/19	Sun 29/12/19	Tue 24/12/19	Sun 29/12/19	0 days 2	227	100%	24/12 29/12
	drilling Works (10no.1rig, 4days/drillhole/rig)	11 days Tue 31/12/19	Mon 13/1/20	Tue 31/12/19	Mon 13/1/20	0 days 57,226	228	100%	3 1/12 13/1
	allation of Monitoring Points	2 days Tue 14/1/20	Wed 15/1/20	NA	NA	77 days 227	230,229	0%	14/1 🄞 15/1
	ting up plant for pre-bored socked H-pile Installation	5 days Mon 20/4/20	Fri 24/4/20	NA	NA	3 days 228	230	0%	2 <mark>0/4 24/4</mark>
	-bored Socketed H-Pile Installation (36 Nos, 2 Rig, 3days/rig/pile)	54 days Sat 25/4/20	Tue 30/6/20	NA	NA	3 days 58,228,229	231	0%	25/4 30/6
Pile	Loading Test	26 days Wed 1/7/20	Sun 26/7/20	NA	NA	4 days 230	232	0%	1/7 🔳 26/7
2 Exc	avation for Pile Cap (1,800 cu.m)	20 days Mon 27/7/20	Tue 18/8/20	NA	NA	4 days 74,60,231	234,332,333,334,336,335	0%	27/7 18/8
33 R.C	Structure	220 days Wed 19/8/20	Mon 17/5/21	NA	NA	4 days		0%	19/8
34 (Ground Floor Construction @ +6.30mpD	80 days Wed 19/8/20	Mon 23/11/20	NA	NA	4 days 232	235	0%	19/8 23/11
	First Floor Construction @ +13.50mpD	80 days Tue 24/11/20	Wed 3/3/21	NA	NA	4 days 234	236	0%	24/11 3/3
36 KD3D F	Roof Construction @+19.00mPD	60 days Thu 4/3/21	Mon 17/5/21	NA	NA	4 days 235	238,239,40FF,237,250	0%	4/3 17/5
	ow access to Contarctor DE/2018/03 for E&M Installation	0 days Mon 17/5/21	Mon 17/5/21	NA	NA	40 days 236	40FF	0%	♦ 17/5
8 Dra	inage System (within Bldg/ Structure) Installation	60 days Tue 18/5/21	Thu 29/7/21	NA	NA	354 days 236	45FF	0%	18/5 29/7
	WF Works & BS Works	90 days Tue 18/5/21	Thu 2/9/21	NA	NA	324 days 91,62,236	45FF	0%	18/5 2/9
	al Hydrolysis Pretreatment	403 days Thu 19/12/19		Thu 19/12/19	NA	0 days		11%	19/12
	Clearance & Site Set Up	16.12 day Thu 19/12/19	Sun 12/1/20	Thu 19/12/19	Sun 12/1/20	0 days 2	242	100%	19/12 12/1
	drilling Works (3no.1rig, 4days/drillhole/rig)	2 days Mon 13/1/20	Tue 14/1/20	Mon 13/1/20	Tue 14/1/20	0 days 57FS+24 days,	241 243	100%	13/1 14/1
	allation of Monitoring Points	6 days Wed 15/1/20	Tue 21/1/20	NA	NA	254 days 242	245	0%	15/1 💩 21/1
	ting up plant for pre-bored socked H-pile Installation	5 days Tue 24/11/20	Sat 28/11/20	NA	NA	0 days	245	0%	24/11 28/11
	-bored Socketed H-Pile Installation (15 Nos, 1 Rig, 3days/rig/pile)	45 days Mon 30/11/20	Sat 23/1/21	NA	NA	0 days 58,243,244	246	0%	30/11 23/1
	Loading Test	25 days Sun 24/1/21	Wed 17/2/21	NA NA	NA NA	0 days 245	247	0%	24/1 17/2
	avation for Pile Cap (160 cu.m)	20 days Thu 18/2/21	Fri 12/3/21	NA NA	NA NA	0 days 74,60,246	248	0%	18/2 12/3
	. Plinth	40 days Sat 13/3/21	Mon 3/5/21	NA	NA	0 days 247	41FF,223	0%	13/3 3/5
	Chloride Dosing Facilities	216 days Tue 18/5/21	Mon 7/2/22	NA	NA	4 days	,===	0%	18/5
	avation for Raft Footing (105 cu.m)	35 days Tue 18/5/21	Tue 29/6/21	NA	NA	4 days 2,236	251	0%	18/5 29/6
	te Load Test	18 days Wed 30/6/21	Wed 21/7/21	NA	NA	4 days 250	252	0%	30/6 📱 21/7
	S. Structure	66 days Thu 22/7/21	Fri 8/10/21	NA	NA	4 days 251,61	253	0%	22/7 8/10
	el Roof Structure (On-site Fabrication)	65 days Sat 9/10/21	Fri 24/12/21	NA	NA	4 days 252	41FF,254	0%	9/10 24/12
	WF Works & BS Works	45 days Sat 25/12/21	Mon 7/2/22	NA	NA	244 days 253,91,62	45FF	0%	25/12 7/2
	ydrant and Booster Pump Room	204.8 day Mon 19/7/21	Thu 24/3/22	NA NA	NA NA	11 days	1011	0%	19/7
	avation for Raft Footing (160 cu.m)	10 days Mon 19/7/21	Thu 29/7/21	NA NA	NA	11 days 2,261	257,294	0%	19/7 29/7
	te Load Test	18 days Fri 30/7/21	Thu 19/8/21	NA NA	NA NA	11 days 2,201 11 days 256	257,294	0%	30/7 19/8
	S. Structure	60 days Mon 15/11/21		NA NA	NA NA	-60.8 days 257,61,263	259,41FF,296FS-1 day	0%	15/11 27/1
	NF Works & BS Works	45 days Thu 27/1/22	Thu 24/3/22	NA NA	NA NA	159.2 days 258,91,62	45FF	0%	27/1 24/3
	former and Switchroom			NA NA	NA NA		TOIT	0%	1/6
	evation for Raft Footing (310 cu.m)	183 days Tue 1/6/21 20 days Tue 1/6/21	Mon 10/1/22 Fri 25/6/21	NA NA	NA NA	-20.8 days -20.8 days 2,282	262,256	0%	1/6 25/6
	, , , , , , , , , , , , , , , , , , ,						262,256	0%	25/6 17/7
	te Load Test	18 days Fri 25/6/21	Sat 17/7/21	NA NA	NA NA	-20.8 days 261			2/9 1///
	S. Structure	60 days Thu 2/9/21	Mon 15/11/21	NA NA	NA NA	-60.8 days 262,61,284	264,41FF,258	0%	
	NF Works & BS Works	45 days Mon 15/11/21		NA	NA	219.2 days 263,91,62	45FF	0%	15/11 10/1
	Meter Cabinet	73 days Tue 12/10/21	Sat 8/1/22	NA NA	NA	-20 days	007	0%	12/10 8/1
	avation for Raft Footing (6 cu.m)	10 days Tue 12/10/21	Sat 23/10/21	NA NA	NA NA	-20 days 2,304	267	0%	12/10 23/10
	te Load Test	18 days Mon 25/10/21	Sat 13/11/21	NA NA	NA NA	-20 days 266	268	0%	25/10 1 13/11
	S. Structure	30 days Mon 15/11/21		NA NA	NA	-20 days 267,61	269,271	0%	15/11 18/12
	NF Works & BS Works	15 days Mon 20/12/21		NA	NA	43 days 268,91,62	46FF	0%	20/12 8/1
	House	75 days Sun 19/12/21	Wed 23/3/22	NA NA	NA	-20 days	070	0%	19/12 23/3
	avation to Formation	21 days Sun 19/12/21	Sat 8/1/22	NA	NA	-23 days 2,268	272	0%	19/12 8/1
	. Structure	30 days Mon 10/1/22	Wed 16/2/22	NA	NA	-17 days 61,271	273	0%	10/1 16/2
	NF Works & BS Works	30 days Thu 17/2/22	Wed 23/3/22	NA	NA	-17 days 272,91,62	46FF	0%	17/2 23/3
	rs Pumping Station	100 days Mon 28/6/21	Tue 26/10/21	NA	NA	0 days		0%	28/6 26/10
	avation for Raft Footing (185 cu.m)	40 days Mon 28/6/21	Fri 13/8/21	NA	NA	0 days 2,179	276,290	0%	28/6 13/8
	Structure	60 days Sat 14/8/21	Tue 26/10/21	NA	NA	0 days 275,61	41FF,292	0%	14/8 26/10
	Gas Buner	53 days Tue 25/5/21	Tue 27/7/21	NA	NA	110 days		0%	25/5 📖 27/7
78 Exc	avation for Raft Rooting (75cu.m)	15 days Tue 25/5/21	Thu 10/6/21	NA	NA	110 days 2,210	279,298	0%	25/5 10/6
	to Load Toot	18 days Fri 11/6/21	Sat 3/7/21	NA	NA	110 days 278	280	0%	11/6 3/7
79 Plat	te Load Test	10 day3 111 11/0/21	out of 1721			<u> </u>			



	Fask Name	Duratior Start	Finish	Actual Start	Actual Finish	Total Predecessors Successors	% Comple Q1	
KD3E	R.C. Plinth	20 days Mon 5/7/21	Tue 27/7/21	NA	NA	110 days 279,61 41FF,300	0%	5/7 2 7/7
*	Plant Services Water System	98 days Fri 7/5/21	Thu 2/9/21	NA	NA	-60.8 days	0%	7/5 2/9
	Excavation for Raft Footing (800 cu.m)	20 days Fri 7/5/21	Tue 1/6/21	NA	NA	-60.8 days 2,140 283,261	0%	7/5 ■ 1/6
	Plate Load Test	18 days Tue 1/6/21	Wed 23/6/21	NA	NA	-60.8 days 282 284	0%	1/6 ■ 23/6
KD3E	Basement Construction @+1.20mPD	60 days Wed 23/6/21	Thu 2/9/21	NA	NA	-60.8 days 283,61 41FF,263	0%	23/6 2/9
*	Deodorization System No. 11	73 days Sat 2/10/21	Wed 29/12/21	NA	NA	2 days	0%	2/10 29/12
5	Excavation for Raft Footing (1,280 cu.m)	20 days Sat 2/10/21	Tue 26/10/21	NA	NA	2 days 2,198 287	0%	2/10 26/10
	Plate Load Test	18 days Wed 27/10/21	Tue 16/11/21	NA	NA	2 days 286 288	0%	27/10 🛮 16/11
3 KD3E	R.C. Plinth	35 days Wed 17/11/21		NA	NA	2 days 287,61 41FF	0%	17/11 29/12
*	Biogas Holder	102 days Mon 30/8/21	Fri 31/12/21	NA	NA	0 days	0%	30/8 31/12
)	Excavation for Raft Footing (1,120 cu.m)	20 days Mon 30/8/21	Tue 21/9/21	NA	NA NA	9 days 2,275 291	0%	30/8 21/9
	,				NA NA		0%	23/9 15/10
	Plate Load Test	18 days Thu 23/9/21	Fri 15/10/21	NA				
2 KD3E	R.C. Plinth	55 days Wed 27/10/21		NA	NA	0 days 291,61,276 41FF	0%	27/10 31/12
3 *	H2S Removal System	139.8 day Mon 27/9/21	Thu 17/3/22	NA	NA	-60.8 days	0%	27/9 17/3
1	Excavation for Raft Footing (396 cu.m)	10 days Mon 27/9/21	Fri 8/10/21	NA	NA	9 days 2,256 295	0%	27/9 8/10
5	Plate Load Test	20 days Sat 9/10/21	Tue 2/11/21	NA	NA	9 days 294 296	0%	9/10 2/11
KD3E	R.C. Plinth	40 days Wed 26/1/22	Thu 17/3/22	NA	NA	-60.8 days 295,61,258FS-1 da 41FF	0%	26/1 🗰 17/3
*	Deodorization System No. 12	58 days Fri 11/6/21	Thu 19/8/21	NA	NA	110 days	0%	11/6 11/8
;	Excavation to Formation	20 days Fri 11/6/21	Tue 6/7/21	NA NA	NA	110 days 2,278 299	0%	11/6 6/7
)	Plate Load Test	18 days Wed 7/7/21	Tue 27/7/21	NA NA	NA NA	110 days 2,276 255	0%	7/7 27/7
						•		28/7 19/8
KD3E	R.C. Plinth	20 days Wed 28/7/21	Thu 19/8/21	NA	NA		0%	
*	Underpass	496 days Tue 11/2/20	Mon 11/10/21	NA	NA	-20 days	0%	11/2
2	Temporary Storage for H pile works and access for DSD	155 days Tue 11/2/20	Tue 14/7/20	NA	NA	3 days 190SS-14 days 303	0%	11/2 14/7
3	Sheet Pile Installation + ELS Works (incl. Strut (2-layers) Installation &	68 days Tue 11/8/20	Sat 31/10/20	NA	NA	-20 days 15,189,150,302 304	0%	11/8 31/10
	Excavation (300 cu.m))							
1 SW4	R.C. Structure	280 days Mon 2/11/20	Mon 11/10/21	NA	NA	-20 days 303,61 46FF,266	0%	2/11 11/10
5 *	Pipe Works and Utility Installation	1832 day Thu 16/1/20	Mon 20/1/25	NA	NA	0 days 86	0%	16/1
5	Pipe Works At Chuk Wan Street	548 days Thu 16/1/20	Fri 16/7/21	NA	NA	1.1 days	0%	16/1
,	Drainage Diversion (Existing Drainage Culvert)	443 days Thu 16/1/20	Fri 16/7/21	NA NA	NA NA	1.1 days	0%	16/1
B KD1A		60 days Thu 16/1/20	Sat 28/3/20	NA NA	NA NA	1.1 days 68,55,75,120FS-5 121,329SS,123	0%	16/1 28/3
NUIA	Stage 1 - Drainage Diversion of Drainage b/w Reconstructed Storm Water Manhole SMH1003177A and Reconstructed Storm Water	00 days 1110 10/1/20	Sat 20/3/20	INA	INA	days,82,119	076	10/10/2003
	Manhala MUD22							1079
9 KD1A	Stage 2 - Drainage Diversion of Drainage b/w MHD26 and	120 days Fri 19/2/21	Fri 16/7/21	NA	NA	32.8 days 325 43FF	0%	19/2 16/7
	SMHH1003177A, to Abandon of Exisiting Drainage Culvert (1 Cell,							
SW4	Trencless Work for Pipe Installation	162 days Tue 4/8/20	Thu 18/2/21	NA	NA	32.8 days	0%	4/8 18/2
	Construction of Temporary Jacking Pit	61 days Tue 4/8/20	Thu 15/10/20	NA	NA	32.8 days 15,54	0%	4/8 📖 15/10
!	Trial Pit Excavation & UU Detection Works	7 days Tue 4/8/20	Tue 11/8/20	NA	NA	32.8 days 2FS+210 days 313,316	0%	4/8 11/8
3	Pit Construction (11m x 9m)	40 days Wed 12/8/20	Sat 26/9/20	NA	NA	32.8 days 312 314	0%	12/8 26/9
	Setting up of Entrance Ring and Gantry	14 days Mon 28/9/20	Thu 15/10/20	NA	NA	32.8 days 313 319	0%	28/9 15/10
				NA NA		· ·		
5	Construction of Temporary Receiving Pit	47 days Wed 12/8/20	Wed 7/10/20		NA	56.8 days	0%	12/8 7/10
5	Trial Pit Excavation & UU Detection Works	7 days Wed 12/8/20	Wed 19/8/20	NA	NA	56.8 days 312 317	0%	12/8 19/8
7	Pit Construction (6m x 9m)	40 days Thu 20/8/20	Wed 7/10/20	NA	NA	56.8 days 316 320FF	0%	20/8 7/10
8	Pipe Jacking Operation	41 days Fri 16/10/20	Thu 3/12/20	NA	NA	32.8 days	0%	16/10 🚃 3/12
9	Setting Up of Trenchless Equipment	7 days Fri 16/10/20	Fri 23/10/20	NA	NA	32.8 days 314 320	0%	16/10 23/10
0	Pipe Jacking Operation (30m, 3m/day)	10 days Sat 24/10/20	Thu 5/11/20	NA	NA	32.8 days 319,317FF 321	0%	24/10 5/11
1	Installation of grouting pipe and rail	7 days Fri 6/11/20	Fri 13/11/20	NA	NA	32.8 days 320 322	0%	6/11 13/11
2	Pipe Laying Works	10 days Sat 14/11/20	Wed 25/11/20	NA	NA	32.8 days 321 323	0%	14/11 25/11
3						•	0%	26/11 3/12
	Formwork Erection and grouting works	7 days Thu 26/11/20		NA NA	NA NA	,		
1	Reinstatement of Temporary Launching Pit	30 days Fri 4/12/20	Mon 11/1/21	NA	NA	32.8 days 323 325	0%	4/12 11/1
5	Reinstatement of Temporary Receiving Pit	30 days Tue 12/1/21	Thu 18/2/21	NA	NA	32.8 days 324 309	0%	12/1 ■ 18/2
6	Process Pipeworks, All Sewerage, Utilities & Roadworks in Portion C		Tue 1/3/22	NA	NA	19 days	0%	16/1
	the Site	days						
7	Process Pipeworks	60 days Thu 16/1/20	Sat 28/3/20	NA	NA	21.1 days	0%	16/1 📥 28/3
8 KD1A	Connection pipe at UV System no.1 & Effluent Pumping Stataior	60 days Thu 16/1/20	Sat 28/3/20	NA	NA	21.1 days	0%	16/1 🚛 28/3
	no.1							
)	Effluent Pipe (aprox. 70m, dia 300 - 1600)	40 days Thu 16/1/20	Thu 5/3/20	NA	NA	21.1 days 308SS,82 331,330,123	0%	16/1 🧓 5/3
)	Effluent Pipe Flowmeter Chamber (3.8mx3.95mx3.42m(D))	20 days Fri 6/3/20	Sat 28/3/20	NA NA	NA NA	265 days 329 121,35	0%	6/3 28/3
<u></u>	Plant Services Water Pipe (approx. 15m, dia 150-350)	20 days Fri 6/3/20	Sat 28/3/20	NA NA	NA NA	265 days 329 121,35	0%	6/3 28/3
2 SW4					NA NA		0%	
	Remaining Effluent Pipes	360 days Fri 11/12/20	Tue 1/3/22	NA NA		19 days 63,166,172,193,23,46FF		11/12 1/3
3 SW4	Stormdrain Pipeworks	360 days Fri 11/12/20	Tue 1/3/22	NA	NA	2 days 63,166,172,193,23:46FF	0%	11/12 1/3
4 SW4	Seawage Pipeworks	360 days Fri 11/12/20	Tue 1/3/22	NA	NA	2 days 63,166,172,193,23:46FF	0%	11/12 1/3
5 SW4	Watermain Pipeworks	360 days Fri 11/12/20	Tue 1/3/22	NA	NA	2 days 63,166,172,193,23:46FF	0%	11/12 1/3
6 SW4	Cable & Other Underground Utility Pipeworks	360 days Fri 11/12/20	Tue 1/3/22	NA	NA	2 days 63,166,172,193,23,46FF	0%	11/12 1/3
SW4	Pipe Bridge No.1	180 days Mon 2/8/21	Fri 28/1/22	NA	NA	54 days 2 46FF	0%	2/8 28/1
*	Remaining Pipe Works & Lanscape Works	1316 day Fri 7/8/20	Mon 20/1/25	NA	NA	0 days	0%	7/8
9 SW5	Irrigation System	1025 day: Fri 7/8/20	Fri 19/1/24	NA	NA	2 days 64,2FS+231 days 47FF	0%	7/819/1
SW5	Hard Landscape Works	1025 day(Fri 7/8/20	Fri 19/1/24	NA NA	NA NA	2 days 64,2FS+235 days 47FF	0%	7/8 19/1
1 SW5	Soft Landscape Works	-	Fri 19/1/24	NA NA	NA NA	0 days 64,2FS+235 days 343,47FF	0%	7/8
	·	1025 day: Fri 7/8/20						
2 SW5	Outfall and River Embankment works & Retaining Wall	388 days Mon 3/10/22	Mon 22/1/24	NA	NA	0 days 47FF	0%	
3	Establishment Works (365 Calendar Days)	291 days Sat 20/1/24	Mon 20/1/25	NA	NA	0 days 341,64 48FF,49FF	0%	20/1
	Construction of Portion A of the Site	1203 day Wed 27/11/19	Mon 13/3/23	Wed 27/11/19	NA	20 days	4%	27/1
	CLP 132kV Substation	975 days Wed 27/11/19	Mon 13/3/23	Wed 27/11/19	NA	17 days	4%	27/1
*				M 07/44/40	NA	20 days	5%	27/1
f	Internal Works	1203 day Wed 27/11/19	Mon 13/3/23	Wed 27/11/19	INA.	20 days	3 /0	27/11

Revised Works Programme (Status Date: 20/01/2020)



KD	Task Name	Duratior Start	Finish	Actual Start	Actual Finish	Total Predecessors	Successors	% Comple	2020 2023 2026 203 Q1 Q3 Q1 Q3
48	Additional tree felling works (NCE no. xx)	4 days Fri 20/12/19	Mon 23/12/19	Fri 20/12/19	Mon 23/12/19	0 days 347	350,349	100%	20/12 23/12
49	Trial Pit Excavation & UU Detection Works	10 days Mon 2/12/19	Thu 12/12/19	Mon 2/12/19	Thu 12/12/19	0 days 348	351	100%	2/12 12/12
50	Additional demolition of existing warehouse structures (NCE no. xx)	27 days Wed 27/11/19	Tue 31/12/19	Wed 27/11/19	Tue 31/12/19	0 days 72,348	353,351	100%	27/11 🔳 31/12
51	Predrilling Works (11no., 1rig, 4days/drillhole/rig)	10 days Sat 4/1/20	Thu 16/1/20	Sat 4/1/20	Thu 16/1/20	0 days 57,350,349	352	100%	4/1 🕴 16/1
52	Instsallation of Monitoring Points	5 days Thu 16/1/20	Wed 22/1/20	Thu 16/1/20	NA	16 days 351	354	70%	16/1 🏟 22/1
53	Demolition of Existing Boundary Wall for Temproary Access	25 days Thu 2/1/20	Mon 3/2/20	NA	NA	9 days 72,350	354	0%	2/1 🤙 3/2
54	Setting up plant for pre-bored socked H-pile Installation	5 days Tue 4/2/20	Sat 8/2/20	NA	NA	9 days 352,353	355	0%	4/2 8/2
55	Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile)	62 days Mon 10/2/20	Sat 25/4/20	NA	NA	9 days 58,354	356	0%	10/2 25/4
56	Pile Load Test	25 days Sun 26/4/20	Wed 20/5/20	NA	NA	13 days 355	357	0%	26/4 20/5
57	Additional Sheetpile Installation (NCE no.xx)	25 days Thu 21/5/20	Thu 18/6/20	NA	NA	11 days 356	358	0%	21/5 🔳 18/6
58	ELS Works (incl. Strut (3-layers) Installation & Excavation (NCE no.xx)	45 days Fri 19/6/20	Wed 12/8/20	NA	NA	11 days 357	359	0%	19/6 12/8
59	R.C. Structure (880 sq.m)	194 days Thu 19/11/20	Sat 17/7/21	NA	NA	-70 days 87,88,89,90,61,3	76	0%	19/11
60	Basement	60 days Thu 19/11/20	Sat 30/1/21	NA	NA	-70 days	361	0%	19/11 30/1
61	Ground Floor	60 days Mon 1/2/21	Sat 17/4/21	NA	NA	-70 days 360	362	0%	1/2 17/4
62	First Floor	44 days Mon 19/4/21	Thu 10/6/21	NA	NA	-70 days 361	363	0%	19/4 🔤 10/6
63	Roof Floor (461sq.m)	30 days Fri 11/6/21	Sat 17/7/21	NA	NA	-70 days 362	364,366	0%	11/6 🔳 17/7
64	ABWF Works & BS Works	60 days Mon 19/7/21	Mon 27/9/21	NA	NA	0 days 363,91,62	365SS	0%	19/7 🚃 27/9
65	Installation of telephone line/ direct link for FSD Inspection	60 days Mon 19/7/21	Mon 27/9/21	NA	NA	0 days 364SS		0%	19/7 🚃 27/9
66 KD2A	A Architectual Works	60 days Mon 19/7/21	Mon 27/9/21	NA	NA	-70 days 363	367,36FF	0%	19/7 🚃 27/9
67	Handover to CLP for Electrical System Installation	30 days Tue 28/9/21	Wed 27/10/21	NA	NA	301 days 366	368,370,371,369	0%	28/9 27/10
68	E&M Installation, Testing & Commissioning by CLP	180 days Thu 28/10/21	Mon 25/4/22	NA	NA	342 days 367	44FF	0%	28/10 25/4
69	Testing & Commissioning of the E&M Works	90 days Thu 28/10/21	Tue 25/1/22	NA	NA	432 days 367	44FF	0%	28/10 25/1
70	ABWF Works - External Finishing & BS Works	90 days Thu 28/10/21	Wed 16/2/22	NA	NA	334 days 367,91,62	44FF	0%	28/10 16/2
71 SW2	Building Services Installation Works (incl. Fire Services, Plumbing, Drainage, etc.) & FS Inspection	180 days Fri 5/8/22	Mon 13/3/23	NA	NA	17 days 367,77	44FF	0%	5/8 13/3
72	External Works	302 days Thu 9/4/20	Sat 17/4/21	NA	NA	-70 days		0%	9/4 17/4
73	Road Widening Works	152 days Thu 9/4/20	Tue 13/10/20	NA	NA	-70 days 70FS+60 days		0%	9/4 33/10
74	Drainage Works	76 days Thu 9/4/20	Tue 14/7/20	NA	NA	-70 days 70FS+60 days	375	0%	9/4 14/7
75	Road Works	76 days Wed 15/7/20	Tue 13/10/20	NA	NA	-70 days 374	376	0%	15/7 13/10
76	Temporary Site Access	30 days Wed 14/10/20	Wed 18/11/20	NA	NA	-70 days 375	377,359	0%	14/10 🔳 18/11
77 SW2	Construction of New Boundary Wall	120 days Thu 19/11/20		NA	NA	582 days 376	44FF	0%	19/11 17/4

Page 6

	Contract Dates	1585 days	Mon 18/11/19	Thu 27/3/25		0 days	None	Qtr 2 C	2tr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 0	Qu 2 Qu 4 Qt 1 Qt 2 Qt 3 Q	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr	ı → Qtr I
	Starting Date	0 days	Mon 18/11/19	Mon 18/11/19	35FS+1 day,36FS+1 day		Calendar Day		18/11			'
	Access Dates (cal. day)	310 days	Mon 18/11/19	Tue 22/9/20		0 days	Calendar Day		18/11 22/9			
	Portion B-1 (Access Road AR3)	0 days	Mon 18/11/19	Mon 18/11/19 2	118	77 days	Calendar Day		18/11 1 8/11 1			
	Portion B-1A (Area for the works for Sidestream Treatment Facilities by Others	0 days	Mon 18/11/19	Mon 18/11/19 2		1957 days	Calendar Day		10/11			
	Portion B-2 (Inlet Works No.1)	0 days	Mon 18/11/19	Mon 18/11/19 2	122,143,148	105 days	Calendar Day		18/11 🔷			
	Portion B-2A (Area for the pipe-jacking works by others)	0 days	Mon 18/11/19	Mon 18/11/19 2		1957 days	Calendar Day		18/11			
	Portion B-3 (Primary Sedimentation Tanks No. 1-4)	0 days	Mon 18/11/19	Mon 18/11/19 2	177 189	0 days	Calendar Day		18/11 1 8/11 6			
	Portion B-4 (Bioreactor No. 2A & 2B) Portion B-5 (Membrane Facilities Building No.2)	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 2 Mon 18/11/19 2	203	0 days 49 days	Calendar Day Calendar Day		18/11			
	Portion B-6 (SAS Pumping Station)	0 days	Mon 18/11/19	Mon 18/11/19 2	224	184 days	Calendar Day		18/11			
	Portion B-7 (Ancillary structures)	0 days	Mon 18/11/19	Mon 18/11/19 2	233	299 days	Calendar Day		18/11			
	Portion B-7A (Alternation works for existing Power House)	0 days	Wed 2/9/20	Wed 2/9/20 2FS+290 d		0 days	Calendar Day		2/9 🔷			
	Portion B-8 (Alternation for existing Membrane Facilities Building No.1)	0 days	Tue 22/9/20	Tue 22/9/20 2FS+310 d	*	838 days	Calendar Day		22/9 🔷			
	Portion B-8A (Alternation of air supply main for existing Air Blower House No.2)	0 days	Mon 18/11/19	Mon 18/11/19 2	279	72 days	Calendar Day		18/11			
	Portion B-9 (remainder works in Zone B)	0 days	Mon 18/11/19	Mon 18/11/19 2	282,290	98 days	Calendar Day		18/11			
	Portion B-9A (Area for the pipe-jacking works by others)	0 days	Mon 18/11/19	Mon 18/11/19 2		1957 days	Calendar Day		18/11			
	Portion B-9B (Area for underground pipework modification and connection works by others)	0 days	Mon 18/11/19	Mon 18/11/19 2		1957 days	Calendar Day		18/11			
	Portion B-9C (Area for the works for pipeworks)	0 days	Wed 22/7/20	Wed 22/7/20 2FS+248 d	ays	1709 days	Calendar Day		22/7 🧄			
	Key Dates (cal. day)	1440 days	Tue 19/11/19	Sat 28/10/23		0 days	Calendar Day		19/11		28/10 28/10	
١	KD1A completion of AR3 in Portion B-1 (300days after starting date)	300 days	Tue 19/11/19	Sun 13/9/20 2FS+1 day	,41FF	0 days	Calendar Day		19/11			
3	KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)	360 days	Tue 19/11/19	Thu 12/11/20 2FS+1 day,42FF		0 days	Calendar Day		19/11			
)	KD1C completion of civil and structural works of Inlet Works No.1 in Portion	990 days	Tue 19/11/19	Thu 4/8/22 2FS+1		0 days	Calendar Day		19/11	4/8		
	B-2 (990days after starting date)			day,43FF			·					
)	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 2FS+1 day,44FF		0 days	Calendar Day		19/11		20/2	
•	KD1E completion of civil and structural works of Bioreactor in Portion B-4	1140 days	Tue 19/11/19	Sun 1/1/23 2FS+1		0 days	Calendar Day		19/11		1/1	
_	(1,140days after starting date)			day,45FF			·		10/11	2614		
=	KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)	800 days	Tue 19/11/19	Wed 26/1/22 2FS+1 day,46FF		0 days	Calendar Day		19/11	26/1		
}	KD1G completion of civil and structural works of MFB in Portion B-5 (950days	950 days	Tue 19/11/19	Sat 25/6/22 2FS+1		0 days	Calendar Day		19/11	25/6		
	after starting date)			day,47FF			·		40/44			
Н	KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)	630 days	Tue 19/11/19	Mon 9/8/21 2FS+1 day,48FF		0 days	Calendar Day		19/11	9/0		
	KD1I completion alternation works for existing Power House in Portion B-7A	150 days	Fri 4/9/20	Sun 31/1/21 13FS+1		0 days	Calendar Day		4/9 31/1			
	(150days after access date of B-7A)			day,49FF								
J	KD1J completion of auxiliary facilities in Portion B-7 (800days after starting date)	800 days	Tue 19/11/19	Wed 26/1/22 2FS+1 day,50FF		0 days	Calendar Day		19/11	26/1		
4	KD2A completion of effluent pipes to UV system and connection to its	495 days	Tue 19/11/19	Sat 27/3/21 2FS+1		0 days	Calendar Day		19/11	27/3		
	downstream in Portion B-9 (495days after starting date)			day,51FF								
В	KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A (420days after starting date)	420 days	Tue 19/11/19	Mon 11/1/21 2FS+1 day,52FF		0 days	Calendar Day		19/11			
4	KD3A completion of all utilities and road works (1440days after starting date)	1440 days	Tue 19/11/19	Sat 28/10/23 2FS+1		0 days	Calendar Day		19/11		28/10	
				day,53FF					10/14			07/0
	Completion Date (cal. Day) Section 1 of the Works (1,460 after starting date)	1956 days 1460 days	Tue 19/11/19 Tue 19/11/19	Thu 27/3/25 Fri 17/11/23 2FS+1 day	55EE	0 days 0 days	Calendar Day Calendar Day		19/11		17/11 🔷	27/3
	Section 2 of the Works (900 after starting date)	900 days	Tue 19/11/19	Fri 6/5/22 2FS+1 day		0 days	Calendar Day			6/5		
	Section 3 of the Works (1,590 after starting date)	1590 days	Tue 19/11/19	Tue 26/3/24 2FS+1 day		0 days	Calendar Day			•	26/3 🄷	
	Defects Liability Period and Landscape Establishment Works	365 days	Thu 28/3/24	Thu 27/3/25 37FS+1 da	y,59F	0 days	Calendar Day					27/3
	Planned Completion	1686 days	Fri 14/8/20	Thu 27/3/25		0 days	Calendar Day		14/8		20/40	27/3
Ą	Planned Completion - Key Dates (cal. day) KD1A completion of AR3 in Portion B-1 (300days after starting date)	1170 days 0 days	Fri 14/8/20 Sat 12/9/20	Sat 28/10/23 Sat 12/9/20 121FF	21FF	0 days 0 days	Calendar Day Calendar Day		14/8		28/10	
3	KD1B completion of utilities diversion for commencement of Inlet Works No.1	0 days	Fri 14/8/20	Fri 14/8/20 123FF	22FF	90 days	Calendar Day		14/8			
	in Portion B-2 (360days after starting date)	·				•	·		·			
0	KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)	0 days	Thu 4/8/22	Thu 4/8/22 175FF,174	FF 23FF	0 days	Calendar Day			4/8 🔷		
D	KD1D completion of civil and structural works of Primary Sedimentation Tanks	0 days	Mon 20/2/23	Mon 20/2/23 186FF,185	FF 24FF	0 days	Calendar Day				20/2 🔷	
	in Portion B-3 (1190days after starting date)					•	,					
E	KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)	0 days	Sat 31/12/22	Sat 31/12/22 197FF,198	FF 25FF	0 days	Calendar Day			31/	1/12 ♦	
F	KD1F completion of civil and structural works of MFB from B2 floor to 1st floor	0 days	Tue 25/1/22	Tue 25/1/22 219FF,220	FF 26FF	0 days	Calendar Day			25/1 🔷		
	level in Portion B-5 (800days after starting date)						·					
3	KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)	0 days	Sat 25/6/22	Sat 25/6/22 221FF,222	FF 2/FF	0 days	Calendar Day			25/6 🔷		
Н	KD1H completion of civil and structural works of SAS Pumping Station in	0 days	Mon 9/8/21	Mon 9/8/21 231FF,230	FF 28FF	0 days	Calendar Day			9/8 🔷		
	Portion B-6 (630days after starting date)						·					
	KD1I completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)	0 days	Sat 30/1/21	Sat 30/1/21 280FF	29FF	0 days	Calendar Day		30/1 🄷			
J	KD1J completion of auxiliary facilities in Portion B-7 (800days after starting	0 days	Wed 26/1/22	Wed 26/1/22 276FF,275	FF,2730FF	0 days	Calendar Day			26/1 🔷		
	date)					•	•		2=12			
4	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 283FF	31FF	0 days	Calendar Day		27/3 🧄			
В	KD2B completion of air supply main alternation to existing air blower house	0 days	Thu 3/9/20	Thu 3/9/20 279FF	32FF	130 days	Calendar Day		3/9 ♦			
	No.2 in Portion B-8A (420days after starting date)						,				2042 -	
Ą	KD3A completion of all utilities and road works (1440days after starting date)	0 days	Sat 28/10/23	Sat 28/10/23 289FF	33FF	0 days	Calendar Day				28/10 🔷	
	Planned Completion Date (cal. Day)	1056 days	Fri 6/5/22	Thu 27/3/25		0 days	Calendar Day			6/5		27/3
	Section 1 of the Works (1,460 after starting date)	0 days	Wed 23/8/23	Wed 23/8/23 277FF,271		86 days	Calendar Day				23/8 🔷	
	Section 2 of the Works (900 after starting date)	0 days	Fri 6/5/22	Fri 6/5/22 284FF,287		0 days	Calendar Day			6/5 ♦	2012	
	Section 3 of the Works (1,590 after starting date)	0 days	Tue 26/3/24 Sat 13/1/24	Tue 26/3/24 281FF,291 Tue 26/3/24 57FF	rr,283/Fr,58FF	0 days	Calendar Day				26/3 ♦ 13/1 26 /3	
	Planned Time Risk Allowance (14days per 365day) Defects Liability Period and Landscape Establishment Works	60 days 0 days	Sat 13/1/24 Thu 27/3/25	Thu 27/3/25 294FF	38FF	294 days 0 days	None Calendar Day				10/1 20/3	27/3
	Submissions (cal.day)	880 days	Mon 18/11/19	Fri 15/4/22		0 days	Calendar Day		18/11	15/4		
	Subletting Package	96 days	Mon 18/11/19	Fri 21/2/20		0 days	Calendar Day		18/11 21/2			
	Prepare & submit subletting procedure	12 days	Mon 18/11/19	Fri 29/11/19 2	63	0 days	Calendar Day		18/11 5 29/11			
	PM review and accept subletting procedure	12 days	Sat 30/11/19	Wed 11/12/19 62 Wed 25/12/19 63 82	64,65,68,69,70,71,72,73 87,116		Calendar Day		30/11 □ 11/12 12/12 = 25/12			
	Subletting for Proliminary Works Journating, and diving surrous site of the	14 days	Thu 12/12/19	Wed 25/12/19 63,82	01,110	1 day	Calendar Day		12/12 - 23/12			
	Subletting for Preliminary Works (surveying, condition survey, site clearacne etc)			Sat 4/1/20 63,82	71,72,66	212 days	Calendar Day		12/12 — 4/1			
		24 days	Thu 12/12/19	Out 4/1/20 00,02								
	etc) Subletting for Contractor desinger for temporary works and ICE Subletting for independent BIM consultant	24 days	Mon 6/1/20	Wed 5/2/20 65	112	1474 days	None		6/1 — 5/2			
	etc) Subletting for Contractor desinger for temporary works and ICE Subletting for independent BIM consultant Subletting for demolition works	24 days 24 days	Mon 6/1/20 Thu 12/12/19	Wed 5/2/20 65 Sat 4/1/20 82,63	112 179,191,234,143,204,20	07,21 day	Calendar Day	dem	12/12 — 4/1			
	etc) Subletting for Contractor desinger for temporary works and ICE Subletting for independent BIM consultant	24 days	Mon 6/1/20	Wed 5/2/20 65	112	,		dem				

Critical Task Milestone ♦

Summary

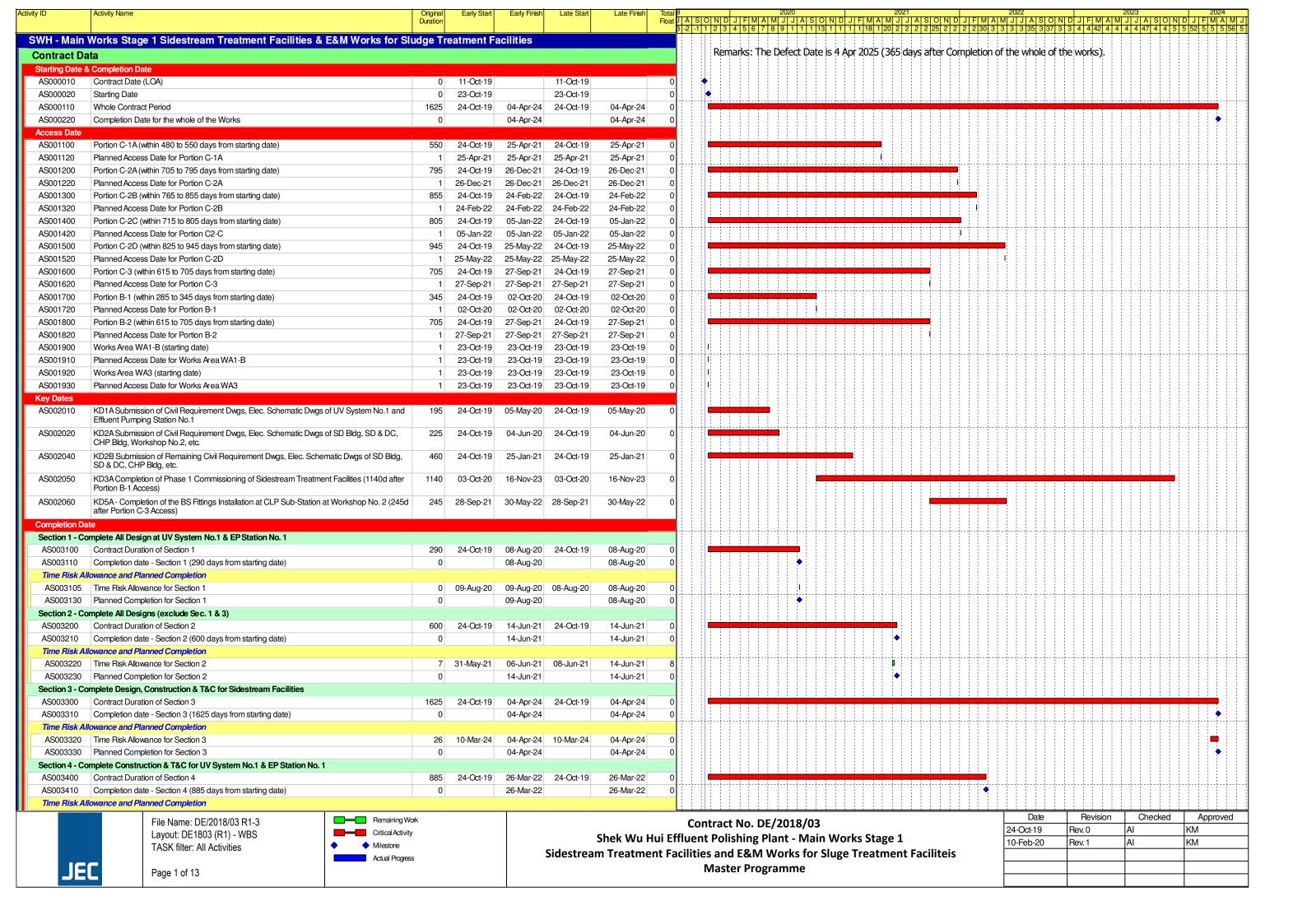
	Task Name Subletting for ELS works for lalet Works No. 1	Duration 48 days	Start	Finish Predecessors	Successors	Total Slack	Task Calendar	trade	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1
	Subletting for ELS works for Inlet Works No.1 Subletting for ELS works for Membrance Facilities Building and other buildings	48 days 48 days	Sun 5/1/20 Sun 5/1/20	Fri 21/2/20 63,65,82 Fri 21/2/20 63,65,82	154 184,196,213,229	560 days 212 days	Calendar Day Calendar Day	ex	5/1 - 21/2
		·	TI 40/40/40	T 00/4/00 00 00		_	·		100 - 000
	Subletting for structural works for Inlet Works Building Subletting for structural works for Primary Sedimentation Tanks	48 days 48 days	Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 63,82 Tue 28/1/20 63,82	160	635 days 1885 days	Calendar Day Calendar Day	rc	12/12 — 28/1 12/12 — 28/1
	Subletting for structural works for Bioreactors	48 days	Thu 12/12/19	Tue 28/1/20 63,82	197	850 days	Calendar Day	rc	12/12 28/1
	Subletting for structural works for Membrance Facilities Building	48 days	Thu 12/12/19	Tue 28/1/20 63,82	219	590 days	Calendar Day	rc	12/12 — 28/1
	Subletting for structural works for SAS pumping house and ancillary structures	48 days	Thu 12/12/19	Tue 28/1/20 63,82	230	327 days	Calendar Day	rc	12/12 28/1
	Subletting for ABWF works	48 days	Thu 12/12/19	Tue 28/1/20 63,82	176,187,202,223,232,24	10,21132 days	Calendar Day	abwf	12/12 — 28/1
	Subletting for Process Pipeworks, Utilities and Roadworks	48 days	Thu 12/12/19	Tue 28/1/20 63,82	279,283FS+22 days	0 days	Calendar Day	uu	12/12 2222 28/1
	Subletting for Landscape Hardworks and Softworks	48 days	Thu 12/12/19	Tue 28/1/20 63,82	292,293,294	978 days	Calendar Day	land	12/12 28/1
	Statutory Submission, Submission and Approval Prepare and submit Subcontractor Management Plan (SMP)	880 days 24 days	Mon 18/11/19 Mon 18/11/19	Fri 15/4/22 Wed 11/12/19 2	64,65,67,68,69,70,71,72	0 days 27:0 days	Calendar Day Calendar Day		18/1 5 11/12
	Prepare and submit Interface Management Plan	36 days	Mon 18/11/19	Mon 23/12/19 2	0 1,00,01,00,00,10,11,12	1921 days	Calendar Day		18/11 23/12
	Prepare and submit the TTA plans inside Treatment Plant for UU diversion	24 days	Mon 18/11/19	Wed 11/12/19 2	118	53 days	Calendar Day		18/11 11/12
	and buildings construction Prepare and submit method statement for UU diversion for Inlet Works No.1	12 days	Mon 18/11/19	Fri 29/11/19 2	86	116 days	Calendar Day		18/11 = 29/11
	PM review and accept the method statement	12 days	Sat 30/11/19	Wed 11/12/19 85	124,125	116 days	Calendar Day		30/11 = 11/12
	Prepare and submit combine underground services drawing for PM's review the alignment	24 days	Thu 26/12/19	Sat 18/1/20 64	118	15 days	Calendar Day		26/12 — 18/1
	Prepare and submit method statement for demolition existing structures	24 days	Mon 18/11/19	Wed 11/12/19 2	204,179,191,234,143,20	07,225 days	Calendar Day	dem	18/11 11/12
	Prepare and submit method statement for structural works for buildings	24 days	Mon 18/11/19	Wed 11/12/19 2		1933 days	Calendar Day	rc	18/11 11/12
	Prepare and submit method statements to MTRC regarding the works within railing protection boundary	36 days	Mon 18/11/19	Mon 23/12/19 2	179,191,234,143,204,20	07,213 days	Calendar Day	dem	18/11 23/12
	Prepare and submit & approve Safety Management Plan	24 days	Mon 18/11/19	Wed 11/12/19 2		1933 days	Calendar Day		18/11 = 11/12
	Prepare and submit Excavation and lateral support (ELS) proposal	24 days	Mon 10/2/20	Wed 4/3/20 2	206	7 days	Calendar Day	ex	10/2 = 4/3
	Prepare and submit Dewatering proposal for basement construction	24 days	Mon 10/2/20	Wed 4/3/20 2	206	7 days	Calendar Day	ex	10/2 = 4/3 5/2 = 28/2
	Prepare and submit Pre-construction condition survey of existing structures/ services	24 days	Wed 5/2/20	Fri 28/2/20 116		1854 days	Calendar Day		312 - 2012
	Prepare and submit Settlement and movement monitoring proposal of existing structures/ services	24 days	Wed 5/2/20	Fri 28/2/20 116		1854 days	Calendar Day		5/2 = 28/2
	Prepare and submit design of structure elements of the temporary activated	60 days	Fri 17/1/20	Mon 16/3/20 2FS+60 days		1837 days	Calendar Day		17/1 —— 16/3
	carbon deodourization unit Prepare of RSE and structural design for alternation and additional (A&A) works at Membrane Facilities Building No.1 and Main Power House	180 days	Mon 18/10/21	Fri 15/4/22	223	324 days	Calendar Day		18/10 15/4
	Environmental Aspect Submissions	136 days	Mon 18/11/19	Wed 1/4/20		23 days	Calendar Day		18/11 1/4
	Prepare, submit & approve Site Management Plan for Trip Tricket System	45 days	Mon 18/11/19	Wed 1/4/20 Wed 1/1/20 2		1912 days	Calendar Day		18/11 1/1
	Prepare, submit & approve Waste Management Plan	45 days	Mon 18/11/19	Wed 1/1/20 2		1912 days	Calendar Day		18/11
	Prepare, submit & approve Environmental Management Plan	45 days	Mon 18/11/19	Wed 1/1/20 2		1912 days	Calendar Day		18/11 1/1
	Procurement	72 days	Mon 18/11/19	Tue 28/1/20	101	23 days	Calendar Day		18/1 28/1
	Prepare and submit the Procurement Procedure PM Review & Accept Procurement Procedure	12 days 12 days	Mon 18/11/19 Sat 30/11/19	Fri 29/11/19 2 Wed 11/12/19 103	104 105,106,107,108,109,11	23 days	Calendar Day Calendar Day		18/11 = 29/11 30/11 = 11/12
	Prepare, submit and approve the pipe works material	25 days	Thu 12/12/19	Sun 5/1/20 104	123,279,285,286,288,28		Calendar Day	uu	12/12 = 5/1
	Prepare, submit and approve the pipe water proofing material	25 days	Thu 12/12/19	Sun 5/1/20 104	123,279,285,286,288,28		Calendar Day	uu	12/12 == 5/1
	Prepare, submit and approve the concrete mix material	48 days	Thu 12/12/19	Tue 28/1/20 104	160,197,219,230	327 days	Calendar Day	rc	12/12 28/1
	Prepare, submit and approve the rebar material	48 days	Thu 12/12/19	Tue 28/1/20 104	160,197,219,230	327 days	Calendar Day	rc	12/12 — 28/1 12/12 — 28/1
	Prepare, submit and approve the metal works material Prepare, submit and approve the ABWF works material	48 days 48 days	Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 104 Tue 28/1/20 104	176,187,202,223,232,24	1885 days 10.21132 days	Calendar Day Calendar Day	abwf	12/12 28/1
	BIM	48 days	Thu 6/2/20	Wed 1/4/20	,,,,,,,,,	1474 days	None	a	6/2 1/4
	Prepare, submit and approve the proposal of details of Common data environment (CDE)	48 days	Thu 6/2/20	Wed 1/4/20 66		1474 days	None		6/2 —— 1/4
	Construction Works	1957 days	Mon 18/11/19	Thu 27/3/25		0 days	Calendar Day		18/11
	Preliminary Works	109 days	Mon 18/11/19	Thu 5/3/20		0 days	Calendar Day		18/11 75/3
	Initial Survey	24 days	Mon 18/11/19	Sat 14/12/19 2	116	8 days	Normal Working		18/11 = 14/12 27/12 = 4/2
	Condition Survey	30 days	Fri 27/12/19	Tue 4/2/20 64,115	117,94,95	0 days	Normal Working	TOURS	
	Installation of Monitoring Markers			Thu 5/3/20 116		0 days			5/2 5/3
	Installation of Monitoring Markers Access Road (AR3), B-1	26 days 193 days	Wed 5/2/20 Mon 20/1/20	Thu 5/3/20 116 Sat 12/9/20 4,84,87	120	0 days	Normal Working	Hours	
	*	26 days	Wed 5/2/20			-	Normal Working	Hours Hou	5/2 \square 5/3 20/1 \qquare 12/9 20/1 \qquare 24/2
	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works	26 days 193 days 28 days 76 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117	120 120 121	0 days 9 days 0 days	Normal Working Normal Working Normal Working Normal Working	Hours Hou Hours Hours	5/2 5/3 20/1 12/9 20/1 24/2 6/3 55555
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks	26 days 193 days 28 days 76 days 80 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120	120	0 days 9 days 0 days 0 days	Normal Working Normal Working Normal Working Normal Working Normal Working	Hours Hours Hours Hours Hours	5/2 5/3 20/1 12/9 20/1 24/2 6/3 55555 9/6 10/6 55555 12/9
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2	26 days 193 days 28 days 76 days 80 days 854 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6	120 120 121	0 days 9 days 0 days 0 days 45 days	Normal Working	Hours Hours Hours Hours Hours Hours Hours	5/2 5/3 20/1 12/9 20/1 = 24/2 6/3 55555
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)	26 days 193 days 28 days 76 days 80 days 854 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106	120 120 121 41FF 42FF	0 days 9 days 0 days 0 days 45 days 74 days	Normal Working	Hours Hours Hours Hours Hours Hours	5/2 \$\infty\$ 5/3 20/1
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenify existing UU arrangement	26 days 193 days 28 days 76 days 80 days 854 days 180 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86	120 120 121 41FF 42FF 125SS	0 days 9 days 0 days 0 days 45 days 74 days	Normal Working Hours_20190924 Normal Working	Hours Hours Hours Hours Hours Hours	5/2 5/3 20/1 24/2 20/1 24/2 6/3 55555 10/6 55555 11/1 14/8 6/1 18/1
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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	26 days 193 days 28 days 76 days 80 days 814 days 180 days 12 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS	120 120 121 41FF 42FF	0 days 9 days 0 days 0 days 45 days 74 days 74 days 74 days 74 days	Normal Working Hours_20190924 Normal Working Normal Working	Hours Hours Hours Hours Hours Hou	5/2 5/3 20/1
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners) Utilities scanning to idenify existing UU arrangement	26 days 193 days 28 days 76 days 80 days 854 days 180 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86	120 120 121 41FF 42FF 125SS	0 days 9 days 0 days 0 days 45 days 74 days	Normal Working Hours_20190924 Normal Working	Hours Hours Hours Hours Hours Hours Hours Hours	5/2 \$\insigma\$ 5/3 20/1
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes	26 days 193 days 28 days 76 days 80 days 814 days 180 days 12 days 14 days 146 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86,124SS Mon 3/8/20 Sat 28/3/20 125	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13	0 days 9 days 0 days 45 days 74 days 74 days 84 days 84 days	Normal Working Hours_2019092 Normal Working	Hours	5/2 5/3 20/1 24/2 20/1 24/2 6/3 55555 9/6 10/6 55555 12/9 6/1 14/8 6/1 18/1 6/1 5/2 6/2 3/8
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception	26 days 193 days 28 days 76 days 80 days 814 days 180 days 12 days 24 days 146 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13	0 days 9 days 0 days 0 days 45 days 74 days 74 days 74 days 84 days	Normal Working Hours_2019092 Normal Working Normal Working Normal Working Hours_2019092 Normal Working Normal Working Normal Working	Hours	5/2 \$\insigma\$ 5/3 20/1
	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes	26 days 193 days 28 days 76 days 80 days 814 days 180 days 12 days 14 days 146 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86,124SS Mon 3/8/20 Sat 28/3/20 125	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13	0 days 9 days 0 days 45 days 74 days 74 days 84 days 84 days	Normal Working Hours_2019092 Normal Working	Hours	5/2 5/3 20/1 24/2 20/1 24/2 6/3 55555 12/9 6/1 10/6 55555 12/9 6/1 14/8 6/1 18/1 6/1 5/2 6/2 28/3
	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber	26 days 193 days 28 days 76 days 80 days 814 days 180 days 146 days 146 days 45 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 6/2/20 Sat 20/6/20 Tue 21/7/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129	0 days 9 days 0 days 45 days 74 days 74 days 84 days	Normal Working Hours_20190924 Normal Working	Hours	5/2 5/3 20/1 24/2 20/1 24/2 6/3 5 5/3 10/6 5 5/3 11/9 6/1 10/6 5 5/2 6/1 14/8 6/1 18/1 6/1 5/2 6/2 3/8 6/2 28/3 30/3 19/6 20/6 20/7 21/7 3/8
	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain	26 days 193 days 28 days 76 days 80 days 814 days 180 days 146 days 45 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 6/2/20 Sat 20/6/20 Tue 21/7/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129 Fri 7/8/20	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129	9 days 9 days 0 days 45 days 74 days 74 days 82 74 days 84 days 85 days 86 days	Normal Working Hours_20190924 Normal Working Normal Working Normal Working Normal Working Hours_20190924 Normal Working Hours_10190924 Normal Working Hours_10190924 Normal Working Normal Working	Hours	5/2 5/3 20/1
	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber	26 days 193 days 28 days 76 days 80 days 814 days 180 days 146 days 146 days 45 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 6/2/20 Sat 20/6/20 Tue 21/7/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129	0 days 9 days 0 days 45 days 74 days 74 days 84 days	Normal Working Hours_20190924 Normal Working	Hours	5/2 5/3 20/1 24/2 20/1 24/2 6/3 5 5/3 10/6 5 5/3 11/9 6/1 10/6 5 5/2 6/1 14/8 6/1 18/1 6/1 5/2 6/2 3/8 6/2 28/3 30/3 19/6 20/6 20/7 21/7 3/8
	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5) Diversion of leachate rising main, CHLC, approx. 24m DN250 DI	26 days 193 days 28 days 76 days 80 days 854 days 180 days 12 days 24 days 146 days 45 days 65 days 24 days 12 days 65 days 65 days 65 days 65 days 66 days 67 days 68 days 69 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 6/2/20 Sat 20/6/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129 Fri 7/8/20 Fri 7/8/20 125 Fri 3/7/20 125,132SS+6 days	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60	9 days 9 days 0 days 0 days 0 days 10 days 110 days 12 days 145 days 14 days 15 days 16 days 17 days 18 days 18 days 18 days 18 days 110 days 110 days	Normal Working Hours_20190924 Normal Working Normal Working Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Hours_20190924	Hours U U Hours U U U U U U U U U U U U U U U U U U U	5/2 5/3 20/1
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5)	26 days 193 days 28 days 76 days 80 days 180 days 12 days 24 days 146 days 45 days 65 days 24 days 150 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 6/2/20 Sat 20/6/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129 Fri 7/8/20 Fri 7/8/20 125 Fri 3/7/20 125 Fri 3/7/20 125	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60	0 days 9 days 0 days 0 days 45 days 74 days 74 days 84 days 84 days 84 days 84 days 84 days 84 days 80 days 80 days	Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working	Hours U U U U U U U U U U U U U U U U U U U	5/2 5/3 20/1 24/2 6/3 5/3 5/3 20/1 24/2 6/3 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 10/6 5/3 5/3 20/7 5/3/8 20/8 5/2 7/8 21/4 3/7 21/4 21/7
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5) Diversion of leachate rising main, CHLC, approx. 24m DN250 DI	26 days 193 days 28 days 76 days 80 days 854 days 180 days 12 days 24 days 146 days 45 days 65 days 24 days 12 days 65 days 66 days 67 days 68 days 69 days 69 days 60 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 6/2/20 Sat 20/6/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 Fri 7/8/20 Fri 7/8/20 Fri 7/8/20 Tue 21/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60 0	9 days 9 days 0 days 0 days 0 days 10 days 110 days 12 days 145 days 14 days 15 days 16 days 17 days 18 days 18 days 18 days 18 days 110 days 110 days	Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working	Hours U U Hours U U U U U U U U U U U U U U U U U U U	5/2 5/3 20/1
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5) Diversion of leachate rising main, CHLC, approx. 24m DN250 DI Diversion of sludge pipe, CHES1 approx. 154m DN250 CI Diversion of pipelines near Primary Sludge Thickeners (approx. 180m)	26 days 193 days 28 days 76 days 80 days 854 days 180 days 12 days 24 days 146 days 45 days 65 days 24 days 150 days 150 days 150 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129 Fri 7/8/20 Fri 7/8/20 125 Fri 3/7/20 125 Fri 3/7/20 125 Fri 3/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60 0	9 days 9 days 9 days 0 days 45 days 74 days 74 days 84 days 84 days 84 days 84 days 84 days 84 days 89 days 81 days 89 days 89 days 89 days 95 days	Normal Working Hours_20190924 Normal Working	Hours Hours Hours Hours Hours Hours Hours U U U U U U U U U U U U U U U U U U U	5/2 5/3 20/1 24/2 6/3 5/3 5/3 20/1 24/2 6/3 5/3 5/3 20/1 24/2 6/3 5/3 5/3 20/1 24/2 6/3 5/3 5/3 20/1 24/2 6/3 5/3 5/3 20/1 24/2 6/3 5/3 5/3 21/1 3/8 6/1 18/1 6/1 5/2 6/2 28/3 30/3 19/6 20/6 20/7 21/7 3/8 6/2 7/8 21/4 3/7 21/4 21/7
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5) Diversion of leachate rising main, CHLC, approx. 24m DN250 DI Diversion of sludge pipe, CHES1 approx. 154m DN250 CI Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes) Trench Excavation from W/H MHD1E to MHD5 (approx. 90m long with	26 days 193 days 28 days 76 days 80 days 854 days 180 days 12 days 24 days 146 days 65 days 24 days 150 days 150 days 60 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 6/2/20 Sat 20/6/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129 Fri 7/8/20 Fri 7/8/20 Fri 7/8/20 Tue 21/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6 days	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60 0	9 days 9 days 0 days 0 days 0 days 45 days 74 days 74 days 32 74 days 84 days 84 days 84 days 84 days 80 days 110 days 95 days	Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working	Hours Hours Hours Hours Hours Hours Hours Hours U U U U U U U U U U U U U U U U U U U	5/2 5/3 20/1 24/2 6/3 5/3 5/5 10/6 5/3 5/5 10/6 5/5 6/1 14/8 6/1 18/1 6/1 5/2 6/2 28/3 30/3 19/6 20/6 20/7 21/7 3/8 6/2 7/8 21/4 3/7 21/4 21/7
Α	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5) Diversion of leachate rising main, CHLC, approx. 24m DN250 DI Diversion of sludge pipe, CHES1 approx. 154m DN250 CI Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes)	26 days 193 days 28 days 76 days 80 days 854 days 180 days 12 days 24 days 146 days 45 days 65 days 24 days 150 days 150 days 150 days 75 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 21/4/20 Tue 21/4/20 Thu 21/4/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129 Fri 7/8/20 Fri 7/8/20 125 Fri 3/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6 days Fri 14/8/20	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60 0 0 138SS+45 days,140	9 days 9 days 9 days 0 days 45 days 74 days 74 days 84 days 84 days 84 days 84 days 85 days 86 days 87 days 87 days 88 days 89 days 89 days 89 days 89 days 89 days 89 days	Normal Working Hours_20190924	Hours Huu Huu Huu Huu Huu Huu Huu Huu Huu Hu	5/2 5/3 20/1
A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5) Diversion of leachate rising main, CHLC, approx. 24m DN250 DI Diversion of sludge pipe, CHES1 approx. 154m DN250 CI Diversion of sludge pipe, CHES2 approx. 106m DN250 CI Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes) Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs MHD1A, 1B, 1C, 1D & 1E) Manholes construction and Pipe laying Backfilling	26 days 193 days 28 days 76 days 80 days 854 days 180 days 12 days 24 days 146 days 65 days 12 days 150 days 150 days 60 days 75 days 75 days 60 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Mon 30/3/20 Mon 15/6/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129 Fri 7/8/20 Fri 7/8/20 125 Fri 3/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6 days Fri 14/8/20 Mon 20/4/20 125 Sat 13/6/20 137SS+45 da Wed 15/7/20 138	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60 0 0 138SS+45 days,140 ys 139	9 days 9 days 0 days 0 days 0 days 10 days 10 days 11 days 12 days 13 days 14 days 15 days 16 days 17 days 17 days 18 days 18 days 18 days 19 days 10 days 10 days 100 days 100 days 100 days 100 days	Normal Working Hours_20190924 Normal Working Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Normal Working Normal Working	Hours Hours Hours Hours Hours Hours Hours Hours Hours UU UU UU UU UU Hours UU	5/2 5/3 20/1
	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5) Diversion of leachate rising main, CHLC, approx. 24m DN250 DI Diversion of sludge pipe, CHES1 approx. 154m DN250 CI Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes) Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs MHD1A, 18, 1C, 1D & 1E) Manholes construction and Pipe laying Backfilling Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with M/Hs	26 days 193 days 28 days 76 days 80 days 854 days 180 days 12 days 24 days 146 days 45 days 65 days 150 days 150 days 75 days 75 days 156 days 60 days 60 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Tue 21/7/20 Tue 21/4/20 Tue 21/4/20 Tue 21/4/20 Tue 21/4/20 Tue 21/4/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129 Fri 7/8/20 Fri 7/8/20 125 Fri 19/6/20 125 Fri 19/6/20 125 Fri 19/6/20 125 Fri 14/8/20 Tue 21/7/20 125,132SS+6 days Fri 14/8/20 Mon 20/4/20 125 Sat 13/6/20 137SS+45 da	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60 0 0 138SS+45 days,140	9 days 9 days 9 days 0 days 45 days 74 days 74 days 84 days 84 days 84 days 84 days 85 days 86 days 87 days 87 days 88 days 89 days 80 days 80 days 80 days 80 days 81 days 82 days 83 days 84 days 86 days 87 days 88 days 89 days 89 days 95 days 95 days	Normal Working Hours_20190924 Normal Working Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Normal Working	Hours Hours Hours Hours Hours Hours Hours Hours Hours UU UU UU UU UU Hours UU	5/2 5/3 20/1
1A	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5) Diversion of leachate rising main, CHLC, approx. 24m DN250 DI Diversion of sludge pipe, CHES1 approx. 154m DN250 CI Diversion of sludge pipe, CHES2 approx. 106m DN250 CI Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes) Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs MHD1A, 1B, 1C, 1D & 1E) Manholes construction and Pipe laying Backfilling	26 days 193 days 28 days 76 days 80 days 854 days 180 days 12 days 24 days 146 days 45 days 65 days 24 days 150 days 150 days 150 days 150 days 60 days 75 days 60 days	Wed 5/2/20 Mon 20/1/20 Mon 20/1/20 Fri 6/3/20 Wed 10/6/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Mon 30/3/20 Mon 15/6/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 129 Fri 7/8/20 Fri 7/8/20 125 Fri 3/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6 days Fri 14/8/20 Mon 20/4/20 125 Sat 13/6/20 137SS+45 da Wed 15/7/20 138	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60 0 0 138SS+45 days,140 ys 139 141SS+26 days	9 days 9 days 0 days 0 days 0 days 10 days 10 days 11 days 12 days 13 days 14 days 15 days 16 days 17 days 17 days 18 days 18 days 18 days 19 days 10 days 10 days 100 days 100 days 100 days 100 days	Normal Working Hours_20190924 Normal Working Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Normal Working Normal Working	Hours	5/2 55/3 20/1
В	Access Road (AR3), B-1 Site setup and clearance wroks Drainage and Utilities Works Roadworks Inlet Works No.1, B-2 Diversion Works (1. Inlet Truck 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 Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber) Trench Excavation for 1800mm dia pipeline and manholes Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber Lay 1800mm dia concretre pipe Collection to existing Inlet Chamber Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5) Diversion of elachate rising main, CHLC, approx. 24m DN250 DI Diversion of sludge pipe, CHES1 approx. 154m DN250 CI Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes) Trench Excavation from MH MHD1E to MHD5 (approx. 90m long with M/Hs MHD1A, 1B, 1C, 1D & 1E) Manholes construction and Pipe laying Backfilling Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with M/Hs MHD5A & 5B)	26 days 193 days 28 days 76 days 80 days 814 days 180 days 12 days 24 days 146 days 65 days 150 days 150 days 75 days 75 days 60 days	Wed 5/2/20 Mon 20/1/20 Fri 6/3/20 Fri 6/3/20 Fri 6/3/20 Wed 10/6/20 Mon 6/1/20 Mon 6/1/20 Mon 6/1/20 Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Tue 21/4/20 Tue 21/4/20 Tue 21/4/20 Thu 6/2/20 Thu 6/2/20 Tue 21/4/20 Tue 21/4/20 Tue 21/4/20 Tue 21/4/20 Thu 6/2/20	Sat 12/9/20 4,84,87 Mon 24/2/20 68 Tue 9/6/20 119,117 Sat 12/9/20 120 Mon 21/11/22 6 Fri 14/8/20 105,106 Sat 18/1/20 86 Wed 5/2/20 86,124SS Mon 3/8/20 Sat 28/3/20 125 Fri 19/6/20 127 Mon 20/7/20 128 Mon 3/8/20 Fri 7/8/20 Fri 7/8/20 Fri 3/7/20 125,132SS+6 days Tue 21/7/20 125,132SS+6 days Fri 14/8/20 Mon 20/4/20 125 Sat 13/6/20 137SS+45 da Wed 15/7/20 138 Fri 3/7/20 137	120 120 121 41FF 42FF 125SS 127,133,137,134,135,13 128 129 130 135SS+60 days,134SS+60 0 0 138SS+45 days,140 ys 139 141SS+26 days	0 days 9 days 9 days 0 days 0 days 10 days 15 days 74 days 74 days 16 days 174 days 175 days 176 days 177 days	Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Hours_20190924 Normal Working Normal Working Normal Working Normal Working Normal Working	Hours Hours Hours Hours Hours Hours Hours Hours Hours UU UU UU UU UU UU Hours UU Hours UU UU Hours UU UU Hours UU	5/2 == 5/3 20/1

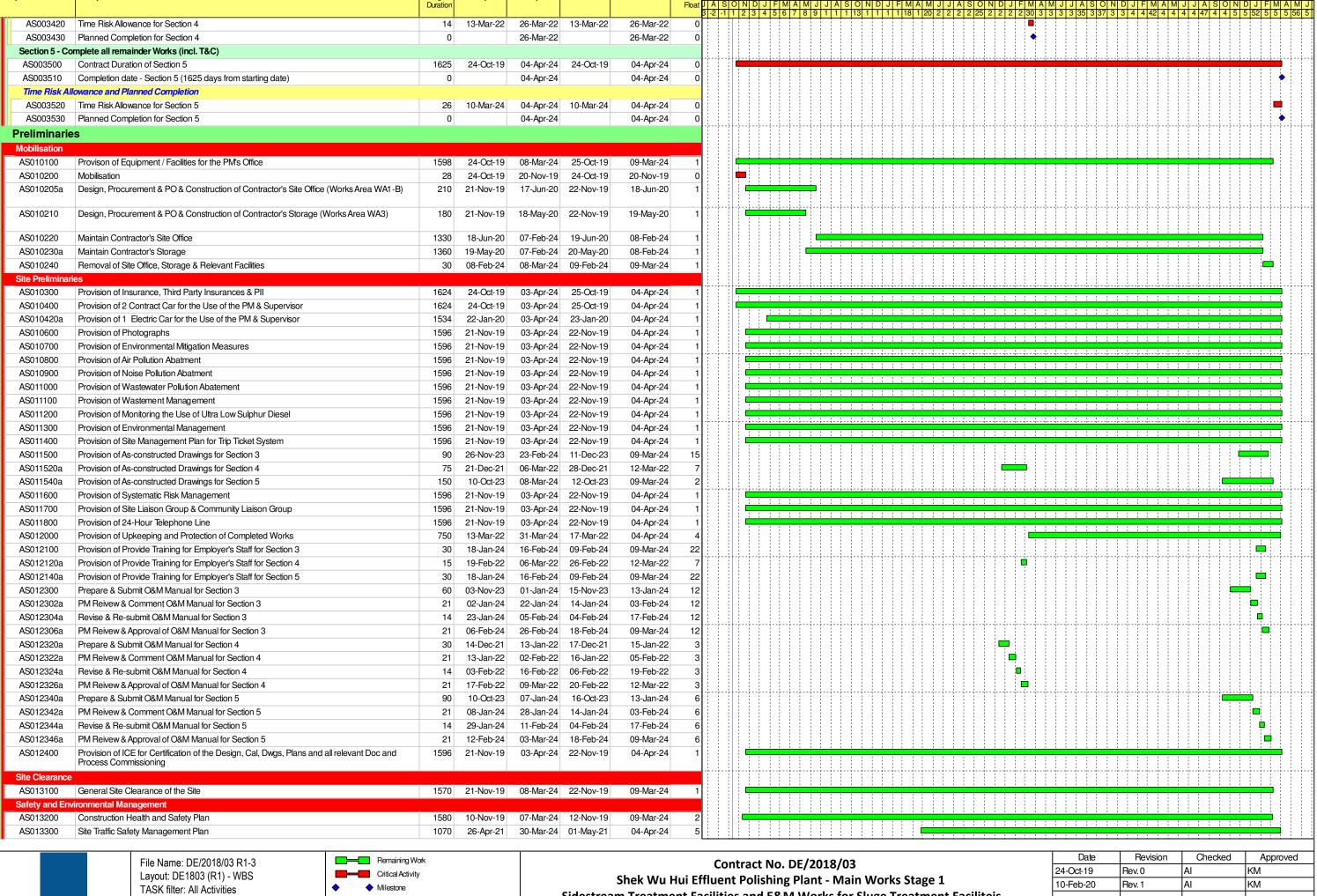
Critical Task Milestone ♦

Summary

	or Sewage Treatment Facilities	Duration	Stort	Finish Dradacescore	Successors	Total Slack	Took Colendor trade	2020 2021 2022 2023 2024 2025
	Task Name	Duration	Start	Finish Predecessors	Successors	Total Slack	Task Calendar trade Q	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1
145	Primary Sludge Pump Pit	60 days	Wed 10/6/20	Thu 20/8/20 144	146	0 days	Normal Working Hoursdem	10/6 52222 20/8
146	Septic Tank	50 days	Fri 21/8/20	Tue 20/10/20 145	147	0 days	Normal Working Hoursdem	21/8 222 20/10
47	Diesel Tank	50 days	Wed 21/10/20	Fri 18/12/20 146		0 days	Normal Working Hourdem	21/10 21/ 12 19/12 21/11
49	Inlet Works No.1 Building Excavate to +6.5mPD (1980sqm excavated soil)	569 days 10 days	Sat 19/12/20 Sat 19/12/20	Mon 21/11/22 6 Sat 2/1/21 143	150	0 days 0 days	Normal Working Hou Normal Working Hoursex	19/12 12/1
150	Predrilling (59nrs, 6rigs, 4days/drillhole/rig)	40 days	Mon 4/1/21	Mon 22/2/21 149,69	151	0 days	Normal Working Hourepd	4/1 555 22/2
151	Pre-bored H piles (186nos, 7rigs, 5days/rig/pile)	133 days	Tue 23/2/21	Wed 4/8/21 150,70	152SS+24 days,154,162,		Normal Working Hourshp	23/2
152	Sheetpile Installation (FSPIV, 3,840sq.m, 1rigs, 50sqm/rig/day) with toe	80 days	Tue 23/3/21	Wed 30/6/21 151SS+24 day		55 days	Normal Working sp	23/3 30/6
	grouting						Hours_20190924	
53	Pile Load Test	26 days	Thu 5/8/21	Fri 3/9/21 151	154	0 days	Normal Working HoursIt	5/8 🚾 3/9
54	ELS works (strutting 4 layers, excavate soil 7445cu.m)	77 days	Sat 4/9/21	Mon 6/12/21 152,151,71,15		0 days	Normal Working Hoursex	4/9 6/12
55	Excavate to +5.0mPD and S1 wailing / strutting (960sqm excavated soil)	15 days	Sat 4/9/21	Tue 21/9/21	156	0 days	Normal Working ex Hours_20190924	4/9 🗠 21/9
156	Excavate to +2.0mPD and S2 wailing / strutting (1920sqm excavated	20 days	Thu 23/9/21	Mon 18/10/21 155	157	0 days	Normal Working ex	23/9 🖘 18/10
	soil)						Hours_20190924	
157	Excavate to +0.0mPD and S3 wailing / strutting (1280sqm excavated	15 days	Tue 19/10/21	Thu 4/11/21 156	158	0 days	Normal Working ex	19/10 🖾 4/11
158	Soil)	20 dava	F=: E/44/04	Cot 07/44/04 457	450	0 40.00	Hours_20190924	5/11 🖾 27/11
130	Excavate to -3.0mPD and S4 wailing / strutting (1920sqm excavated soil)	20 days	Fri 5/11/21	Sat 27/11/21 157	159	0 days	Normal Working ex Hours_20190924	2/11
59	Excavate -7.4mPD (1365sqm excavated soil)	7 days	Mon 29/11/21	Mon 6/12/21 158	166	0 days	Normal Working Hoursex	29/11 9 6/12
.60	R.C. Structure works	296 days	Thu 5/8/21	Thu 4/8/22 73,107,108		0 days	Normal Working Hourerc	5/8 4/8
61	Phase A (floor area 585 sqm)	105 days	Thu 5/8/21	Wed 8/12/21		66 days	Normal Working Hourerc	5/8 8/12
.62	Rebar fix and formwork and concreting for the pile cap (G/F)	40 days	Thu 5/8/21	Mon 20/9/21 151	163	66 days	Normal Working Hourerc	5/8 20/9
63	Rebar fix and formwork and concreting upto +13.45mPD (1/F)	25 days	Tue 21/9/21	Fri 22/10/21 162	164	66 days	Normal Working Hourerc	21/9 == 22/10
164	Rebar fix and formwork and concreting upto +25.80mPD (R/F)	40 days	Sat 23/10/21	Wed 8/12/21 163	170	66 days	Normal Working Hourerc	23/10 — 8/12
65	Phase B (621 sqm) and Phase C (662 sqm)	193 days	Tue 7/12/21	Thu 4/8/22		0 days	Normal Working Hourerc	7/12 4/8
66	Rebar fix and formwork and concreting for the Inlet Works structure upto level -3.0mPD and removal of S4 wailing/strutting	26 days	Tue 7/12/21	Sat 8/1/22 159	167	0 days	Normal Working rc Hours_20190924	7/12 🚾 8/1
67	Rebar fix and formwork and concreting for the Inlet Works structure	14 days	Mon 10/1/22	Tue 25/1/22 166	168	0 days	Normal Working rc	10/1 🖸 25/1
	upto level +0.0mPD and removal of S3 and S2 wailing/strutting	17 days	141011 10/1/22	100 20/1/22 100	.00	o days	Hours_20190924	
168	Rebar fix and formwork and concreting for the Inlet Works structure	14 days	Wed 26/1/22	Mon 14/2/22 167	169	0 days	Normal Working rc	26/1 № 14/2
169	upto level +5.0mPD and removal of S1 wailing/strutting	14 4	Tue 15/2/22	Wod 2/2/22 469	170	0 dovo	Hours_20190924	15/2 🗷 2/3
170	Apply waterproofing membrance and backfilling Rebar fix and formwork and concreting for the Inlet Works structure of	14 days 35 days	Tue 15/2/22 Thu 3/3/22	Wed 2/3/22 168 Wed 13/4/22 169,164	170 171	0 days 0 days	Normal Working Hours Normal Working rc	3/3 523 13/4
, ,	ground floor levels	33 days	111U 3/3/22	** 60 10/4/22 109,104	17.1	o days	Hours_20190924	33 — 133
71	Rebar fix and formwork and concreting for the Inlet Works structure of	30 days	Thu 14/4/22	Tue 24/5/22 170	172	0 days	Normal Working rc	14/4 🔤 24/5
	1/F levels (Phase B +20.11mPD and Phase C +13.45mPD)						Hours_20190924	
172	Debar fix and formwork and congrating for the Inlet Works attricture of	20 days	Wod 2E/E/22	Eri 17/6/22 171	172	0 dovo	Normal Working	25/5 🖾 17/6
172	Rebar fix and formwork and concreting for the Inlet Works structure of double part levels (Phase B +21.31mPD)	20 days	Wed 25/5/22	Fri 17/6/22 171	173	0 days	Normal Working rc Hours_20190924	200 20 11/0
173	Rebar fix and formwork and concreting for the Inlet Works structure of	20 days	Sat 18/6/22	Tue 12/7/22 172	174	0 days	Normal Working rc	18/6 🚾 12/7
	R/F levels (Phase B +27.50mPD and Phase C +25.80mPD)						Hours_20190924	
74 1/040	Date of the state	00 4	140/7/00	Th.: 4/0/00 470	470 4055 475	0 1	No mar at M/a at its a	13/7 🖾 4/8
74 KD1C	Rebar fix and formwork and concreting for the Inlet Works structure upto level +27.8mPD (upper roof floor level)	20 days	Wed 13/7/22	Thu 4/8/22 173	176,43FF,175	0 days	Normal Working rc Hours_20190924	13/1 🛶 410
175 KD1C	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Thu 4/8/22	Thu 4/8/22 174	43FF	0 days	Normal Working	4/8 ♦
							Hours_20190924	
176 SW1	ABWF works	90 days	Fri 5/8/22	Mon 21/11/22 174,110,78	55FF	293 days	Normal Working Hoursabwf	5/8 21/11
177 178	Primary Sedimentation Tanks, B-3	1115 days	Mon 18/11/19	Wed 23/8/23 8	470	0 days	Normal Working Hou	18/11 23/8
179	Operation of the Existing Primary sedimentation Tanks Decommission and Demolition of existing primary sedimentation tanks no. 1 &	615 days	Mon 18/11/19 Mon 13/12/21	Sat 11/12/21 2 Wed 9/2/22 67,88,90,178	179 180	0 days	None Normal Working dem	13/12 3339/2
177	2	45 days	WOT 13/12/21	Wed 9/2/22 07,08,90,178	100	0 days	Hours_20190924	<u></u>
180	Predrilling (68nrs, 7rigs, 4days/drillhole/rig)	38 days	Thu 10/2/22	Fri 25/3/22 179,69,225	181	0 days	Normal Working Hourspd	10/2 🗪 25/3
181	Pre-bored H piles (205nos, 8rigs, 4days/pile/rig)	102 days	Sat 26/3/22	Mon 1/8/22 180,70,226	182SS+45 days,184,183	0 days	Normal Working Hourshp	26/3 1/8
182	Sheetpile Installation (FSP-II, 3360sq.m) with toe grouting	85 days	Wed 25/5/22	Fri 2/9/22 181SS+45 day	/s 184	0 days	Normal Working Hoursep	25/5 25/9
183	Pile Load Test	26 days	Tue 2/8/22	Wed 31/8/22 181	184	2 days	Normal Working Hourelt	28 31/8
184	ELS works (20000cu.m soil with 2 layers wailing / strutting)	45 days	Sat 3/9/22	Fri 28/10/22 181,72,183,18		0 days	Normal Working Hoursex	3/9 <u> </u>
185 KD1D 186 KD1D	R.C. Structure works	92 days	Sat 29/10/22	Mon 20/2/23 184	186,187,44FF,188 44FF	0 days	Normal Working Hourerc	29/10 €555555 20/2
187 SW1	Allow access to Contractor DE/2018/04 for E&M installation and T&C works ABWF works	0 days 150 days	Mon 20/2/23 Tue 21/2/23	Mon 20/2/23 185 Wed 23/8/23 185.110.78	55FF	0 days 71 days	Normal Working Hours Normal Working Hoursabwf	2012 23/8
188 SW1	Flowmeter Chamber no.1	60 days	Tue 21/2/23	Sat 6/5/23 185	55FF	161 days	None	21/2 6/5
189	Bioreactors No.2A & 2B. B-4	1106 days	Mon 18/11/19	Sat 12/8/23 9	3311	0 days	Normal Working Hou	18/11 12/8
190	Operation of 2no. Existing 800mm air mains over bioreactor no.2	360 days	Mon 18/11/19	Tue 2/2/21 2	191	0 days	None None	18/11
191	Decommission and Demolition of existing bioreactor no.2	60 days	Wed 3/2/21	Tue 20/4/21 67,88,90,190		0 days	Normal Working Hourdem	3/2 20/4
192	Predrilling (76nrs, 7rigs, 4days/drillhole/rig)	44 days	Wed 21/4/21	Sat 12/6/21 191,69	193	0 days	Normal Working Hourspd	21/4 🔤 12/6
193	Pre-bored H piles (157nos, 6rigs, 5days/pile/rig)	131 days	Tue 15/6/21	Thu 18/11/21 192,70,209	194SS+72 days,196,195	0 days	Normal Working Hourthp	15/6 ************************************
194	Sheetpile Installation (FSP-II, 3000sq.m, 50sqm/rig/day) with toe grouting	60 days	Wed 8/9/21	Fri 19/11/21 193SS+72 day	/s 196	25 days	Normal Working sp	8/9 19/11
195	Pile Load Test	26 days	Fri 19/11/21	Sat 18/12/21 193	196	0 days	Hours_20190924 Normal Working Hourst	19/11 🔤 18/12
96	ELS works (18100cu.m soil with 4 layers wailing / strutting)	26 days 125 days	Mon 20/12/21	Fri 27/5/22 193,194,72,19		0 days	Normal Working Hoursex	20/12 27/5
190 197 KD1E	R.C. Structure works	180 days	Sat 28/5/22	Sat 31/12/22 75,107,108,19		-	Normal Working Hourerc	28/5 31/12
98 KD1E	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Sat 31/12/22	Sat 31/12/22 197	45FF	0 days	Normal Working Hours	31/12 ◆
199 SW1	Flowmeter no. 2-4	180 days	Tue 3/1/23	Sat 12/8/23 197	55FF	80 days	None	3/1 12/8
00 SW1	Gate Valve Chamber no.1-3	180 days	Tue 3/1/23	Sat 12/8/23 197	55FF	80 days	None	3/1 12/8
201 SW1	Plug Vakve Chamber no.1-2	180 days	Tue 3/1/23	Sat 12/8/23 197	55FF	80 days	None	3/1 12/8
02 SW1	ABWF works	180 days	Tue 3/1/23	Sat 12/8/23 197,110,78	55FF	80 days	Normal Working Hoursabwf	3/1
03	Membrane Facilities Building, B-5	941 days	Mon 6/1/20	Thu 9/3/23 10		0 days	Normal Working Hou	6/1 - 1 9/3
204	Decommission and Demolition of existing final sedimentation tanks no. 3 & 4	14 days	Mon 6/1/20	Tue 21/1/20 88,67,90	205	0 days	Normal Working dem	6/1 5 21/1
.05	(Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m	40 dovo	Wed 22/1/20	Wed 11/3/20 204	206	0 days	Hours_20190924 Normal Working sp	22/1 XXXX 11/3
05	(50sq.m/rig/day, 2rigs) with toe grout	40 days	VV &U ZZ/ 1/ZU	W Gu 11/3/20 204	200	0 days	Hours_20190924	L
06	Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day)	23 days	Thu 12/3/20	Wed 8/4/20 205,92,93	207	0 days	Normal Working Hoursex	12/3 👓 8/4
07	Demolition of remaining final sedimentation tanks	45 days	Thu 9/4/20	Fri 5/6/20 206,67,88,90	208	0 days	Normal Working Hourdem	9/4 555 5/6
08	Predrilling (83nrs, 8rigs, 4days/drillhole/rig)	42 days	Sat 6/6/20	Mon 27/7/20 207,69	209	0 days	Normal Working Hourepd	6/6 🔤 27/7
)9	Pre-bored H piles (224nos, 8rigs, 5days/pile/rig)	140 days	Tue 28/7/20	Wed 13/1/21 208,70	211,210,193	0 days	Normal Working Hourthp	28/7
10	Install S1 wailing / strutting	10 days	Thu 14/1/21	Mon 25/1/21 209	213	16 days	Normal Working Hoursex	14/1 = 25/1
	Pile Load Test	26 days	Thu 14/1/21	Tue 16/2/21 209	212	0 days	Normal Working HoureIt	14/1 🖎 16/2
	ELS works	169 days	Wed 17/2/21	Thu 9/9/21 211		0 days	None	17/2 9/9
12		AF dave	Wed 17/2/21	Tue 13/4/21 210,72	214	0 days	Normal Working ex	17/2 - 13/4
212	Excavate to level +2mPD and install S2 wailing / strutting (8090cu.m soil,	45 days	1100 1772/21	100 10/ 1/21 210,12			Houre 20100024	
211 212 213	250cu.m/day)				215	0 days	Hours_20190924	14/4 🖸 29/4
212	250cu.m/day) Installation of sheetpile, FSP-IV 380sq.m (50sq.m/rig/day, 1rigs)	14 days	Wed 14/4/21	Thu 29/4/21 213	215 216	0 days	Normal Working Houresp	14/4 © 29/4 30/4 № 31/5
212 213 214 215	250cu.m/day)				215 216	0 days 0 days		
112 113 114	250cu.m/day) Installation of sheetpile, FSP-IV 380sq.m (50sq.m/rig/day, 1rigs) Excavate to level -1.5mPD and install S3 wailing / strutting (4000cu.m soil,	14 days	Wed 14/4/21	Thu 29/4/21 213		-	Normal Working Hoursep Normal Working ex	

Civil Works for	r Sewage Treatment Facilities							
ID Key Date	Task Name	Duration	Start	Finish Predecessors	Successors	Total Slack	Task Calendar trade	2020 2021 2022 2023 2024 2025
217	Excavate to level -7.3mPD and install S5 wailing / strutting (4540cu.m soil,	30 days	Wed 14/7/21	Tue 17/8/21 216	218	0 days	Normal Working ex	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2
217	160cu.m/day)	oo dayo	WGG 1-1/1/21	100 1770/21 210	210	o dayo	Hours_20190924	
218	Excavate to final formation level -9.0mPD and install S5 wailing / strutting	20 days	Wed 18/8/21	Thu 9/9/21 217	219	0 days	Normal Working ex	18/8 📨 9/9
	(2860cu.m soil, 160cu.m/day)	,					Hours_20190924	
219 KD1F	R.C. Structure works (from B2 - Level 1)	112 days	Fri 10/9/21	Tue 25/1/22 76,107,108,23	30, 46FF,220,221	0 days	Normal Working Hourerc	10/9 25/1
220 KD1F	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Tue 25/1/22	Tue 25/1/22 219	46FF	0 days	Normal Working Hours	25/1 ♦
221 KD1G	R.C. Structure works (from Level 1 to Roof)	120 days	Wed 26/1/22	Sat 25/6/22 219	223,47FF,222	0 days	Normal Working Hourerc	26/1 25/6
222 KD1G	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Sat 25/6/22	Sat 25/6/22 221	47FF	0 days	Normal Working Hours	25/6 ♦
223 SW1	ABWF works	210 days	Mon 27/6/22	Thu 9/3/23 221,110,78,97	55FF	206 days	Normal Working Hoursabwf	27/6 9/3
224	SAS Pumping Station, B-6	455 days	Wed 20/5/20	Thu 25/11/21 11		0 days	Normal Working Hou	20/5 25/11
225	Predrilling (4nrs, 1rig, 4days/drillhole/rig)	16 days	Wed 20/5/20	Sat 6/6/20 69	226,180	0 days	Normal Working Hourspd	20/5 🚾 6/6
226	Pre-bored H piles (12nos, 1rigs, 5days/pile/rig)	60 days	Mon 8/6/20	Tue 18/8/20 225,70	227,181,228	0 days	Normal Working Hourshp	8/6 \$\times 18/8
227	Sheetpile Installation (FSP-II, 690sq.m, 50sqm/day) with toe grouting	28 days	Wed 19/8/20	Sat 19/9/20 226	229	0 days	Normal Working Hoursep	19/8 🔤 19/9
228	Pile Load Test	26 days	Wed 19/8/20	Thu 17/9/20 226	229	2 days	Normal Working Hourst	19/8 17/9
229	ELS works (1300cu.m soil with 2 layers wailing / strutting)	75 days	Mon 21/9/20	Sat 19/12/20 227,72,228	230	0 days	Normal Working Hoursex	21/9 ****** 19/12
230 KD1H	R.C. Structure works	186 days	Mon 21/12/20	Mon 9/8/21 77,107,108,22	9 231,232,48FF,219	0 days	Normal Working Hourerc	21/12 23/11/2 2
231 KD1H	Allow access to Contractor DE/2018/03 for E&M installation and T&C works	0 days	Mon 9/8/21	Mon 9/8/21 230	48FF	0 days	Normal Working Hours	9/8 🔷
232 SW1	ABWF works	90 days	Tue 10/8/21	Thu 25/11/21 230,110,78	55FF	585 days	Normal Working Hoursabwf	10/8 25/11
233	Ancillary Structures, B-7	503 days	Mon 7/9/20	Sat 21/5/22 12		5 days	Normal Working Hou	7/9
234	Demolition of Existing Faciliates and Structures (leachate pump pit & pumping	120 days	Mon 7/9/20	Sat 30/1/21 67,88,90	235,241,248,254,260,26		Normal Working dem	7/9 30/1
	station)			,,,,,	, , , , , , , , , , , , , , , , , , , ,	., , .	Hours_20190924	
235	Chemical System No.1	168 days	Mon 1/2/21	Thu 26/8/21 234		5 days	Normal Working Hou	1/2 26/8
236	Excavation for Raft Footing (20cu.m)	10 days	Mon 1/2/21	Thu 11/2/21	237	5 days	Normal Working Hoursex	1/2 11/2
237	Plate load test	14 days	Tue 16/2/21	Wed 3/3/21 236	238,242	5 days	Normal Working Hours	16/2 3/3
238 KD1J	R.C. structure works	45 days	Mon 15/3/21	Mon 10/5/21 237	239,50FF,244,240	0 days	Normal Working Hourerc	15/3 5000 10/5
239 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Mon 10/5/21	Mon 10/5/21 238	50FF	215 days	Normal Working	10/5 ♦
							Hours_20190924	
240 SW1	ABWF works + BS works	90 days	Tue 11/5/21	Thu 26/8/21 110,78,238	55FF	660 days	Normal Working Hoursabwf	11/5 26/8
241	Chemical System No.2	189 days	Thu 4/3/21	Thu 21/10/21 234		5 days	Normal Working Hou	4/3 21/10
242	Excavation for Raft Footing (100cu.m)	15 days	Thu 4/3/21	Sat 20/3/21 237	243	5 days	Normal Working Hoursex	4/3 20/3
243	Plate load test	14 days	Mon 22/3/21	Fri 9/4/21 242	244,249	5 days	Normal Working Hours	22/3 9/4
244 KD1J	R.C. structure works	45 days	Tue 11/5/21	Mon 5/7/21 243,238	245,251,50FF,246,247	0 days	Normal Working Hourerc	11/5 577
245 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Mon 5/7/21	Mon 5/7/21 244	50FF	170 days	Normal Working	5/7 ♦
							Hours_20190924	
246 SW1	ABWF works + BS works	90 days	Tue 6/7/21	Thu 21/10/21 110,78,244	55FF	615 days	Normal Working Hoursabwf	6/7 21/10
247 SW1	Demolition of existing chemical room	60 days	Tue 6/7/21	Mon 13/9/21 244	55FF	645 days	Normal Working Hours	6/7 13/9
248	Fire Services Sprinkler Pumping Room	220 days	Sat 10/4/21	Mon 3/1/22 234		5 days	Normal Working Hou	10/4 3/1
249	Excavation for Raft Footing (800cu.m)	45 days	Sat 10/4/21	Thu 3/6/21 243	250	5 days	Normal Working Hoursex	10/4 3/6
250	Plate load test	14 days	Fri 4/6/21	Mon 21/6/21 249	251,255	5 days	Normal Working Hours	4/6 21/6
251 KD1J	R.C. structure works	60 days	Tue 6/7/21	Mon 13/9/21 250,244	253,257,252,50FF	0 days	Normal Working Hourerc	6/7 \$\square 13/9
252 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Mon 13/9/21	Mon 13/9/21 251	50FF	110 days	Normal Working	13/9 ♦
1 1		,-					Hours_20190924	· ·
253 SW1	ABWF works + BS works	90 days	Tue 14/9/21	Mon 3/1/22 110,78,251	55FF	555 days	Normal Working Hoursabwf	14/9 3/1
254	Temporary Chemical Dosing System	191 days	Tue 22/6/21	Thu 10/2/22 234		5 days	Normal Working Hou	22/6 10/2
255	Excavation for Raft Footing (300cu.m)	30 days	Tue 22/6/21	Tue 27/7/21 250	256	5 days	Normal Working Hoursex	22/6 27/7
256	Plate load test	14 days	Wed 28/7/21	Thu 12/8/21 255	257,261	5 days	Normal Working Hours	28/7 12/8
257 KD1J	R.C. structure works	30 days	Tue 14/9/21	Thu 21/10/21 256,251	258,50FF,263,259	0 days	Normal Working Hourerc	14/9 🚾 21/10
258 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Thu 21/10/21	Thu 21/10/21 257	50FF	80 days	Normal Working	21/10 •
230 10	7 mow doods to contractor be/2010/04 for East installation and 1 do works	o dayo	1110 21/10/21	1110 217 10721 207	0011	oo days	Hours_20190924	
259 SW1	ABWF works + BS works	90 days	Fri 22/10/21	Thu 10/2/22 110,78,257	55FF	525 days	Normal Working Hoursabwf	22/10 10/2
260	Fire Hydrant and Booster Pump Room	177 days	Fri 13/8/21	Thu 17/3/22 234		5 days	Normal Working Hou	13/8 17/3
261	Excavation for Raft Footing (200cu.m)	30 days	Fri 13/8/21	Thu 16/9/21 256	262	5 days	Normal Working Hoursex	13/8 16/9
262	Plate load test	14 days	Fri 17/9/21	Tue 5/10/21 261	263,267	5 days	Normal Working Hours	17/9 5/10
263 KD1J	R.C. structure works	30 days	Fri 22/10/21	Thu 25/11/21 262,257	264.265.50FF.269	0 days	Normal Working Hourerc	22/10 🖎 25/11
264 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Thu 25/11/21	Thu 25/11/21 263	50FF	50 days	Normal Working Hours	25/11 ♦
265 SW1	ABWF works + BS works	90 days	Fri 26/11/21	Thu 17/3/22 263,110,78	55FF	495 days	Normal Working Hoursabwf	26/11 17/3
266	Emergency Generator House	163 days	Wed 6/10/21	Tue 26/4/22 234		5 days	Normal Working Hou	6/10 26/4
267	Excavation for Raft Footing (100cu.m)	20 days	Wed 6/10/21	Fri 29/10/21 262	268	5 days	Normal Working Hoursex	6/10 29/10
268	Plate load test	14 days	Sat 30/10/21	Mon 15/11/21 267	269,273	5 days	Normal Working Hours	30/10 15/11
269 KD1J	R.C. structure works	30 days	Fri 26/11/21	Mon 3/1/22 268,263	270,50FF,271,275	0 days	Normal Working Hourerc	26/11 53 3/1
270 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Mon 3/1/22	Mon 3/1/22 269,263	50FF	20 days	Normal Working Hours	3/1
Z/O INDIO	Allow access to Contractor DE/2010/04 for Early Installation and Tac Works	o days	WIUTI 3/ 1/22	WIOTI 5/1/22 208	5011	20 uays	Hours_20190924	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
271 SW1	ABWF works + BS works	90 days	Tue 4/1/22	Tue 26/4/22 110,78,269	55FF	465 days	Normal Working Hoursabwf	4/1 26/4
272	Deodorization System No.1 and No.3A	149 days	Tue 16/11/21	Sat 21/5/22 234		5 days	Normal Working Hou	16/11 21/5
273	Excavation for Raft Footing (400cu.m)	20 days	Tue 16/11/21	Wed 8/12/21 268	274	5 days	Normal Working Hoursex	16/11 8/12
274	Plate load test	14 days	Thu 9/12/21	Fri 24/12/21 273	275	5 days	Normal Working Hours	9/12 24/12
275 KD1J	R.C. structure works	20 days	Tue 4/1/22	Wed 26/1/22 274,269	276,277,50FF	0 days	Normal Working Hourerc	4/1 🖸 26/1
276 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Wed 26/1/22	Wed 26/1/22 275	50FF	0 days	Normal Working	26/1
	See and the second sec	o dayo	55 25/1/22		1	- 20,0	Hours_20190924	
277 SW1	ABWF works + BS works	90 days	Thu 27/1/22	Sat 21/5/22 275	55FF	445 days	Normal Working Hours	27/1 21/5
278	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)	662 days	Wed 29/1/20	Fri 22/4/22		0 days	Normal Working Hou	29/1 22/4
279 KD2B	B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA,	180 days	Wed 29/1/20	Thu 3/9/20 15,79,105,106	52FF,280	0 days	Normal Working uu	29/1
	approx. 133m DN800 D.I.)						Hours_20190924	
280 KD1I	B7-A Alternation works for exisiting Power House	122 days	Fri 4/9/20	Sat 30/1/21 13,67,88,90,27		0 days	Normal Working Hoursdem	4/9 30/1
281 SW3	Alternation works for existing Membrane Facilities Building No.1	360 days	Mon 1/2/21	Fri 22/4/22 14,280	57FF	573 days	Normal Working Hours	1/2 22/4
282	External Underground Service, Utilities, Road/Drain	1091 days	Mon 24/2/20	Sat 28/10/23 16		0 days	Normal Working Hou	24/2 28/10
283 KD2A	Process Pipes CHR and CHS (approx. 100m twin DN900 D.I.)	325 days	Mon 24/2/20	Sat 27/3/21 105,106,79FS	+2289,288SS+101 days,28	650 days	Normal Working Hoursuu	24/2
284 SW2	Process Pipes, exclude CHR and CHS	550 days	Mon 29/6/20	Fri 6/5/22 283SS+101 da	ay: 289FS-100 days,56FF	0 days	Normal Working Hoursuu	29/6
285 SW2	Drainage	550 days	Mon 29/6/20		ay: 289FS-100 days,56FF	0 days	Normal Working Hoursuu	29/6
286 SW2	Sewerage	550 days	Mon 29/6/20	Fri 6/5/22 283SS+101 da		0 days	Normal Working Hoursuu	29/6
287 SW2	Waterworks	550 days	Mon 29/6/20	Fri 6/5/22 283SS+101 da		0 days	Normal Working Hoursuu	29/6
288 SW2	Cable Ducts	550 days	Mon 29/6/20		ay: 289FS-100 days,56FF	0 days	Normal Working Hoursuu	29/6
289 KD3A	Roadworks	540 days	Fri 31/12/21	Sat 28/10/23 285FS-100 da		0 days	Normal Working Hours	31/12
290	Landscaping Works	854 days	Wed 11/5/22	Thu 27/3/25 16		0 days	Normal Working Hou	11/5
291 SW3	Irrigation System	120 days	Wed 11/5/22	Fri 30/9/22 287FS+2 days	3.1.292.57FF	0 days	Normal Working Hoursuu	11/5 533333333 30/9
292 SW3	Hard Landscaping Works	220 days	Mon 3/10/22	Mon 3/7/23 291,80	293,57FF	0 days	Normal Working Hoursland	3/10
293 SW3	Soft Landscaping Works	220 days	Tue 4/7/23	Tue 26/3/24 292,80	294,57FF	0 days	Normal Working Hoursland	4/7
	Cont Europouping Fronto	LLU days				-	-	27/3
294 DLP	Establishment Works (365 days)	294 days	Wed 27/3/24	Thu 27/3/25 293,80	59FF	0 days	Normal Working Hours	7//3





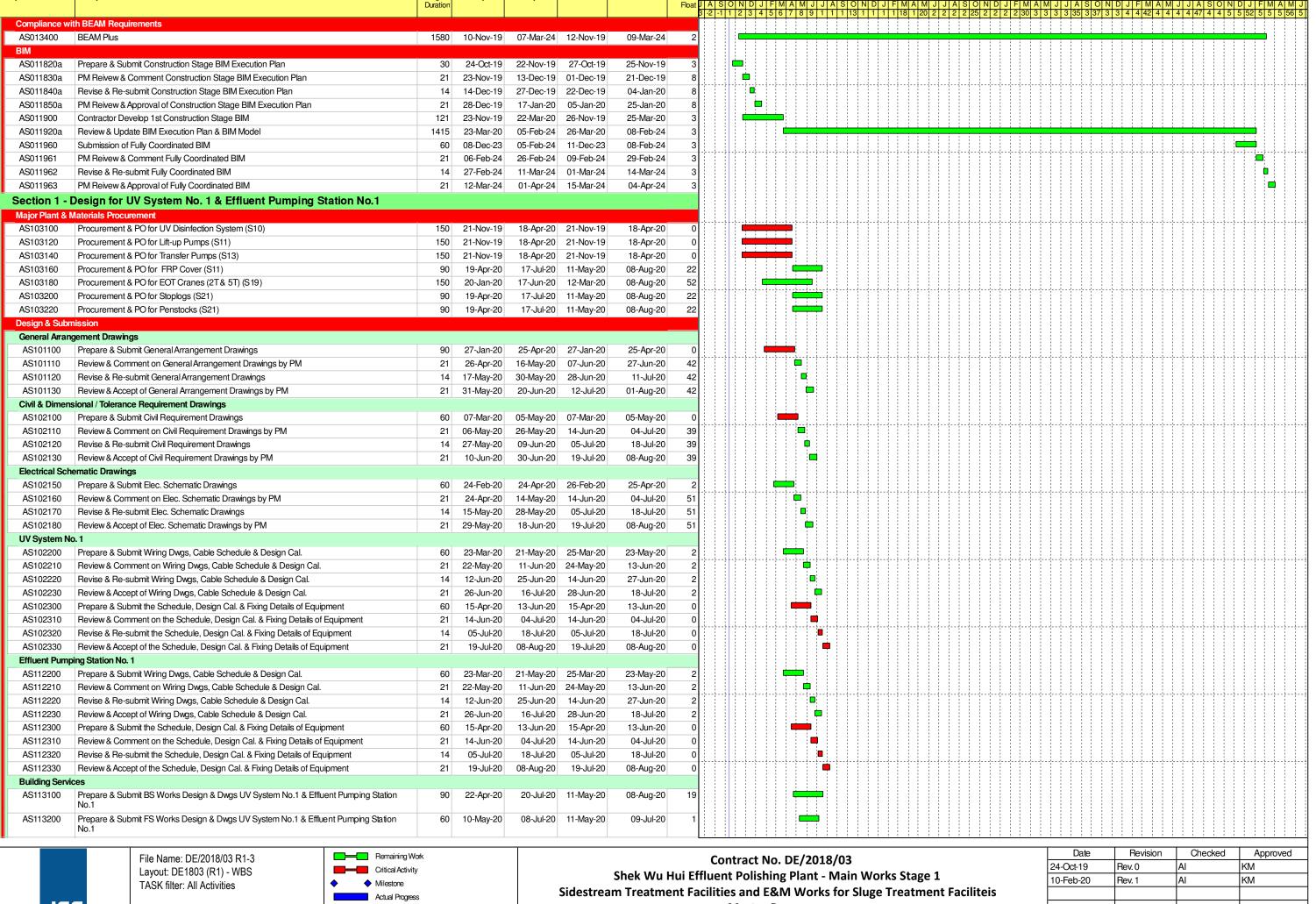


Page 2 of 13

Actual Progress

Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM

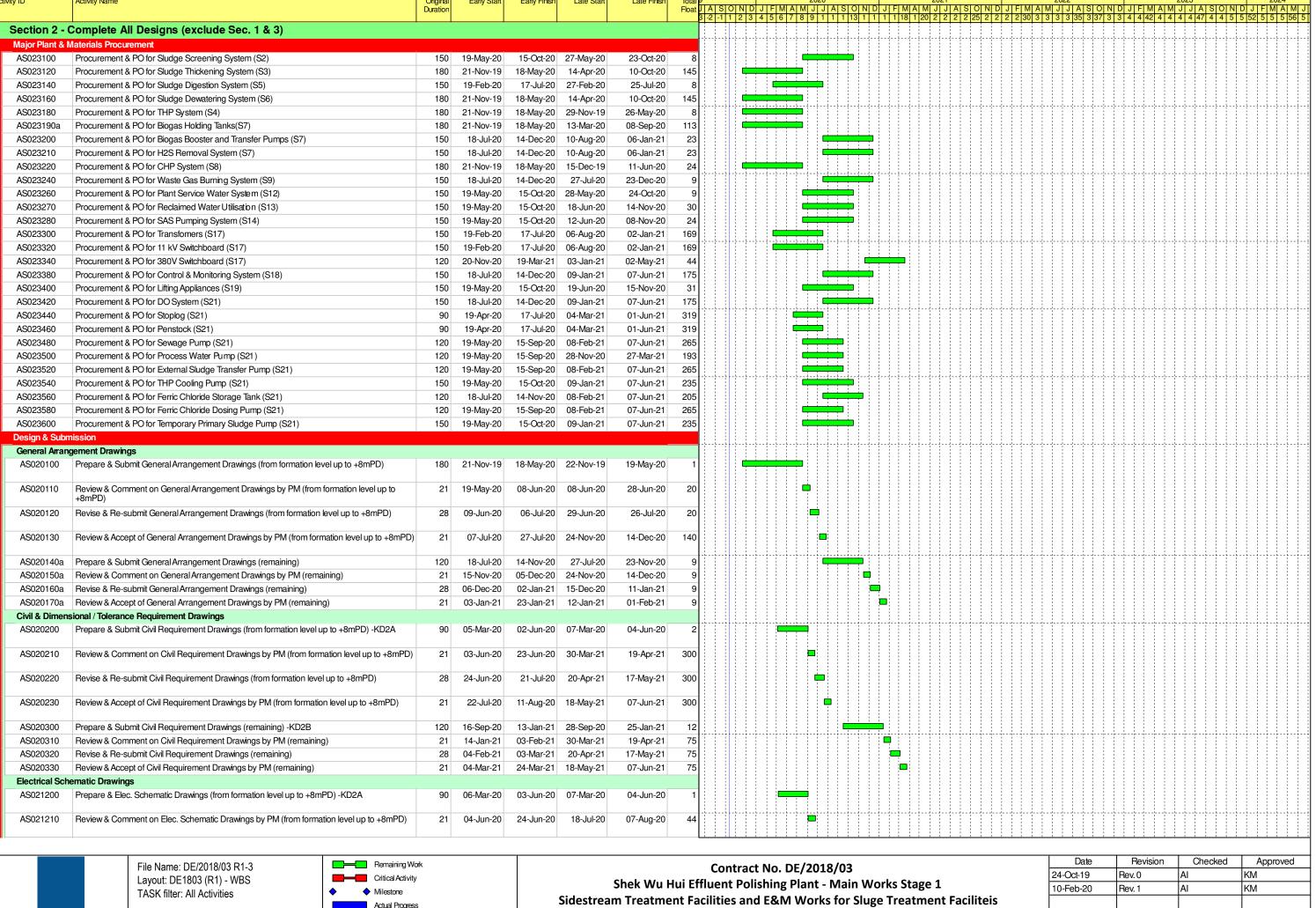


Page 3 of 13



Master Programme

Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM



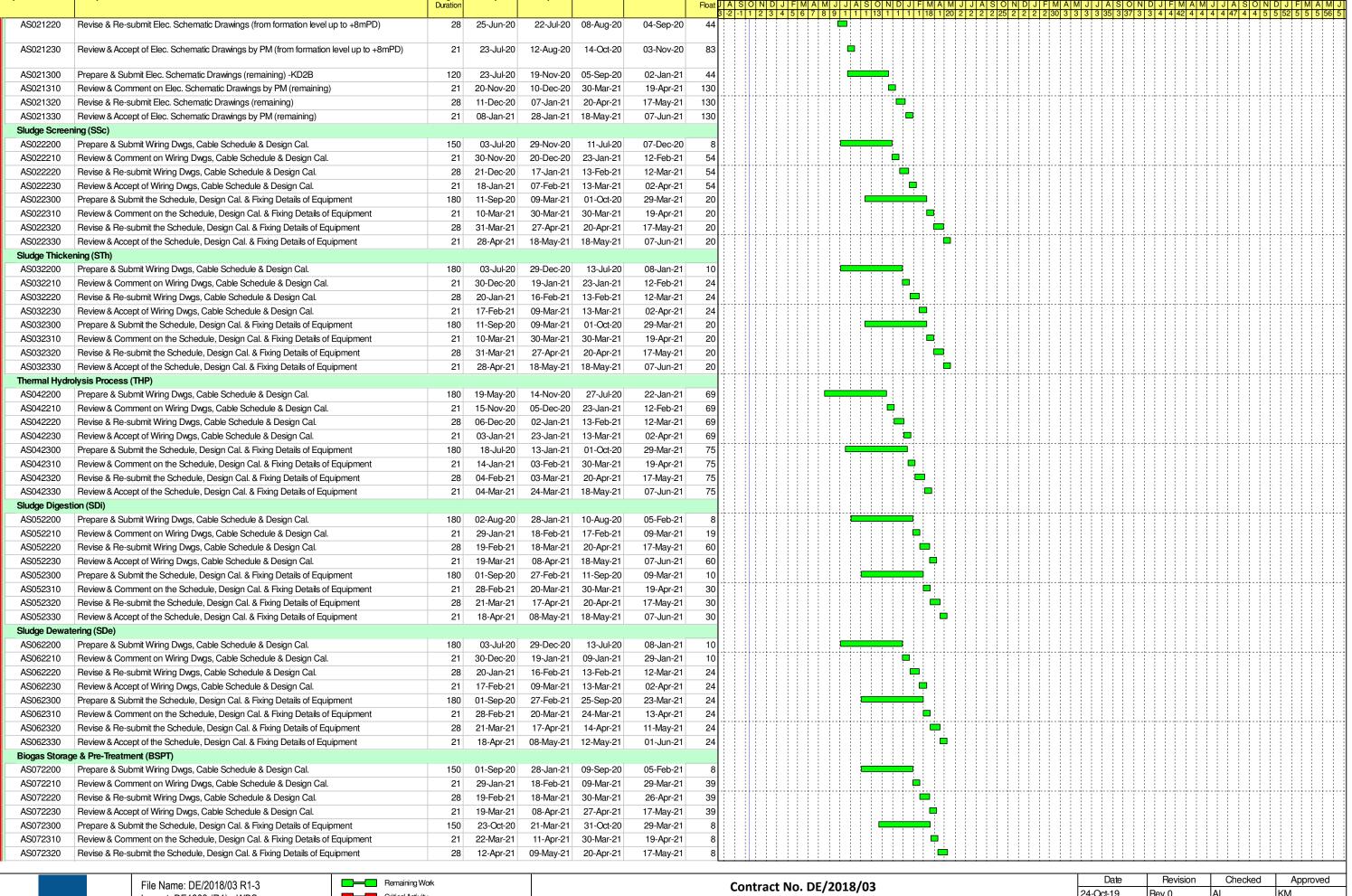


Page 4 of 13



Master Programme

Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM





Layout: DE1803 (R1) - WBS

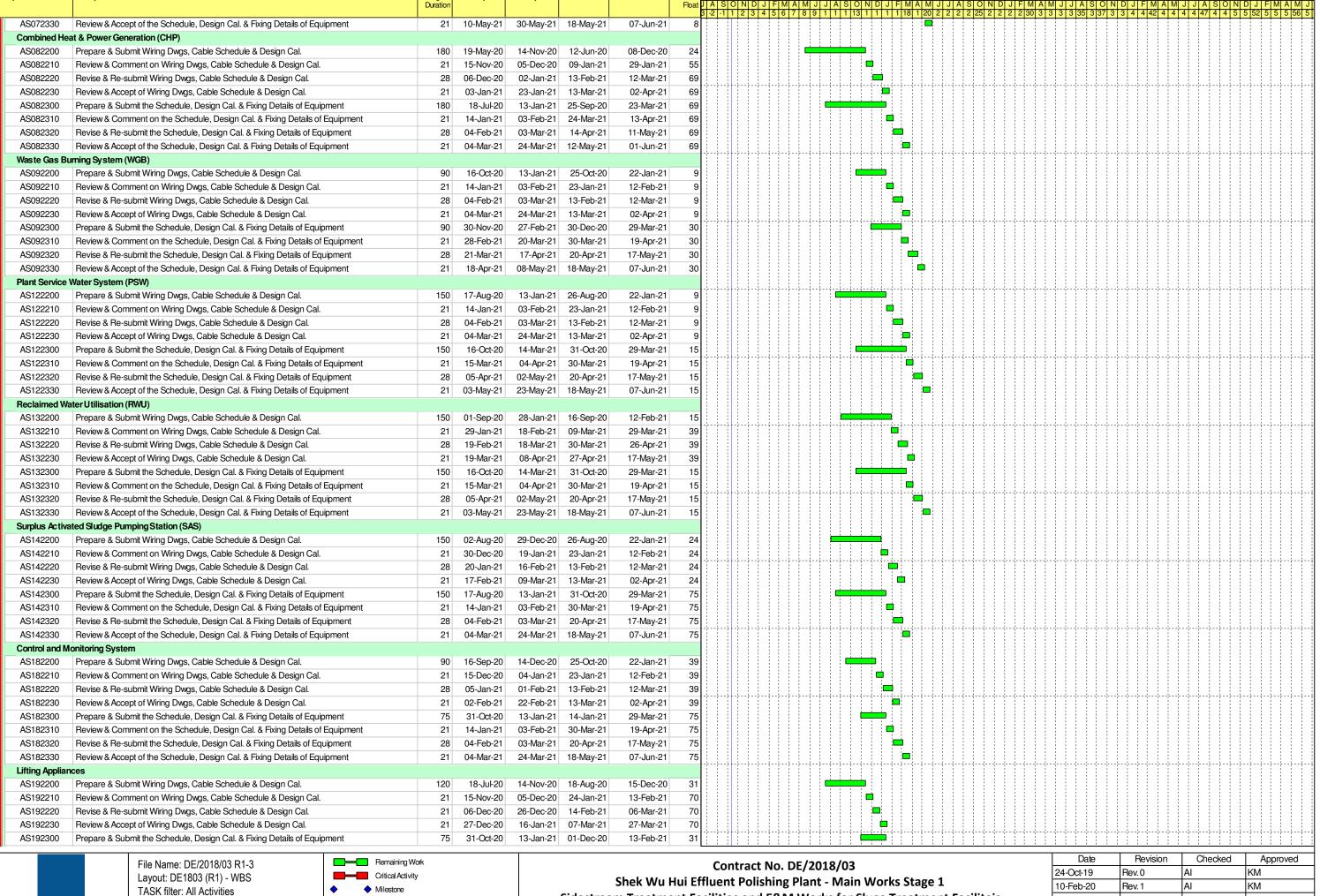
TASK filter: All Activities

Page 5 of 13



Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM



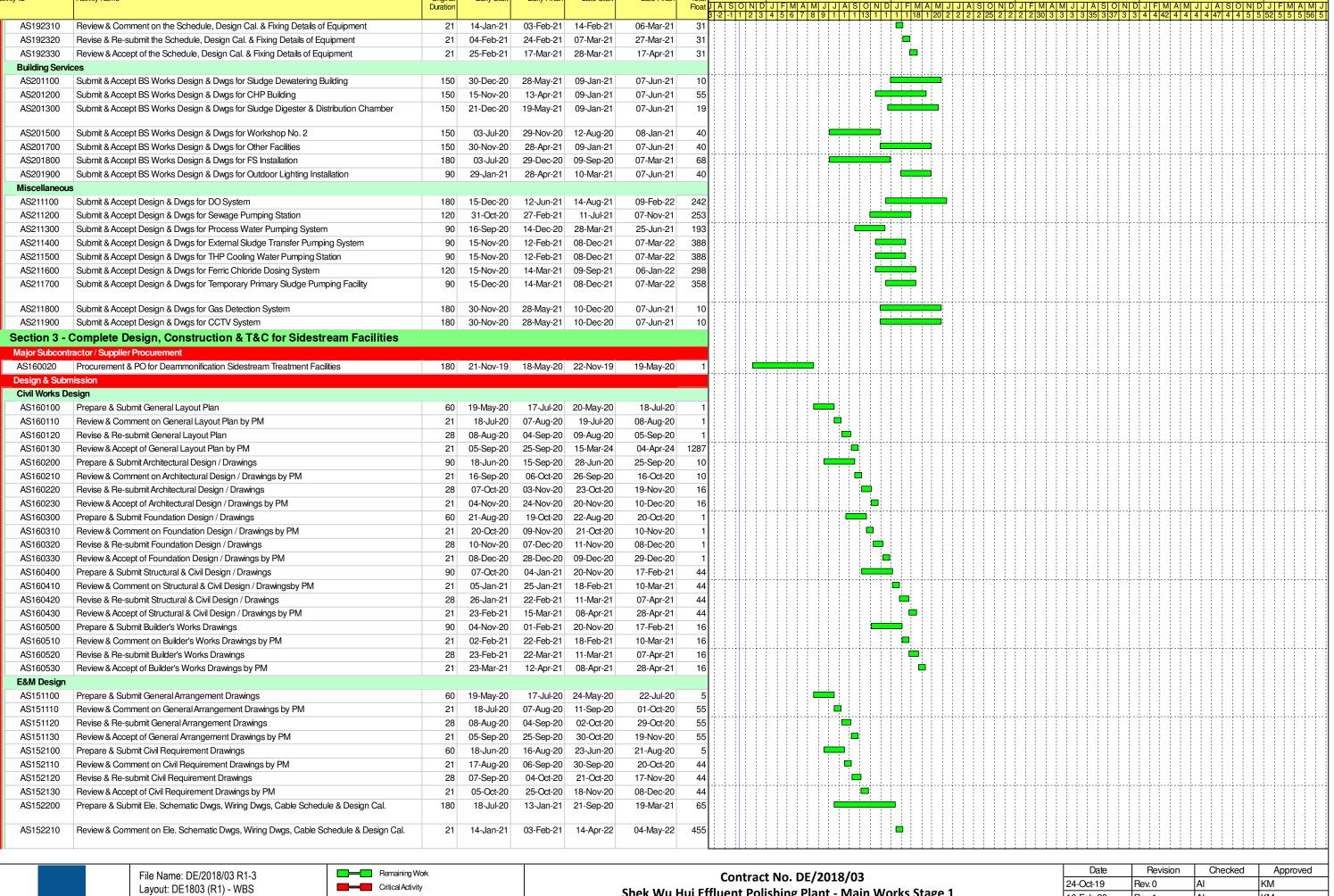


Page 6 of 13



Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM





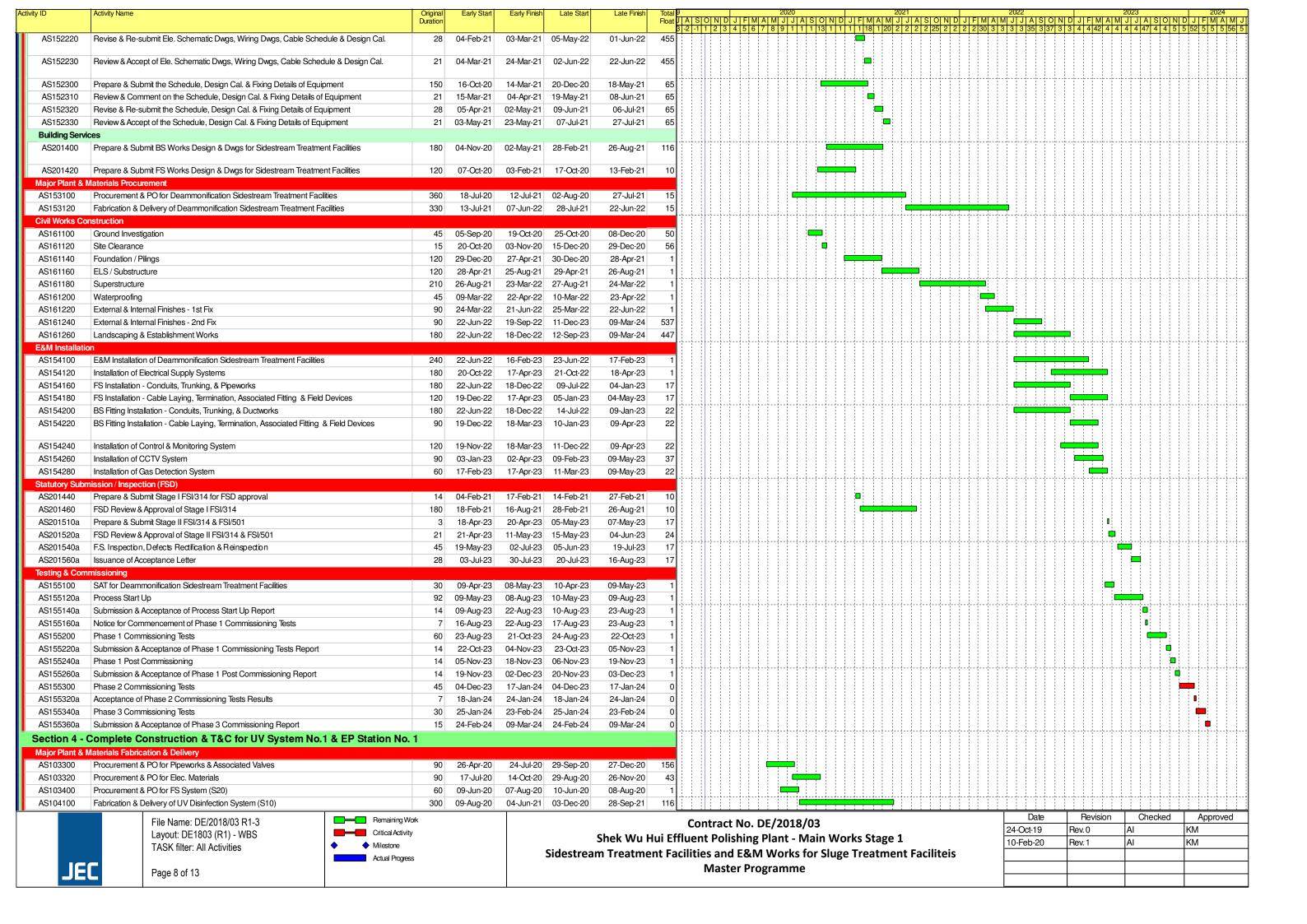
TASK filter: All Activities

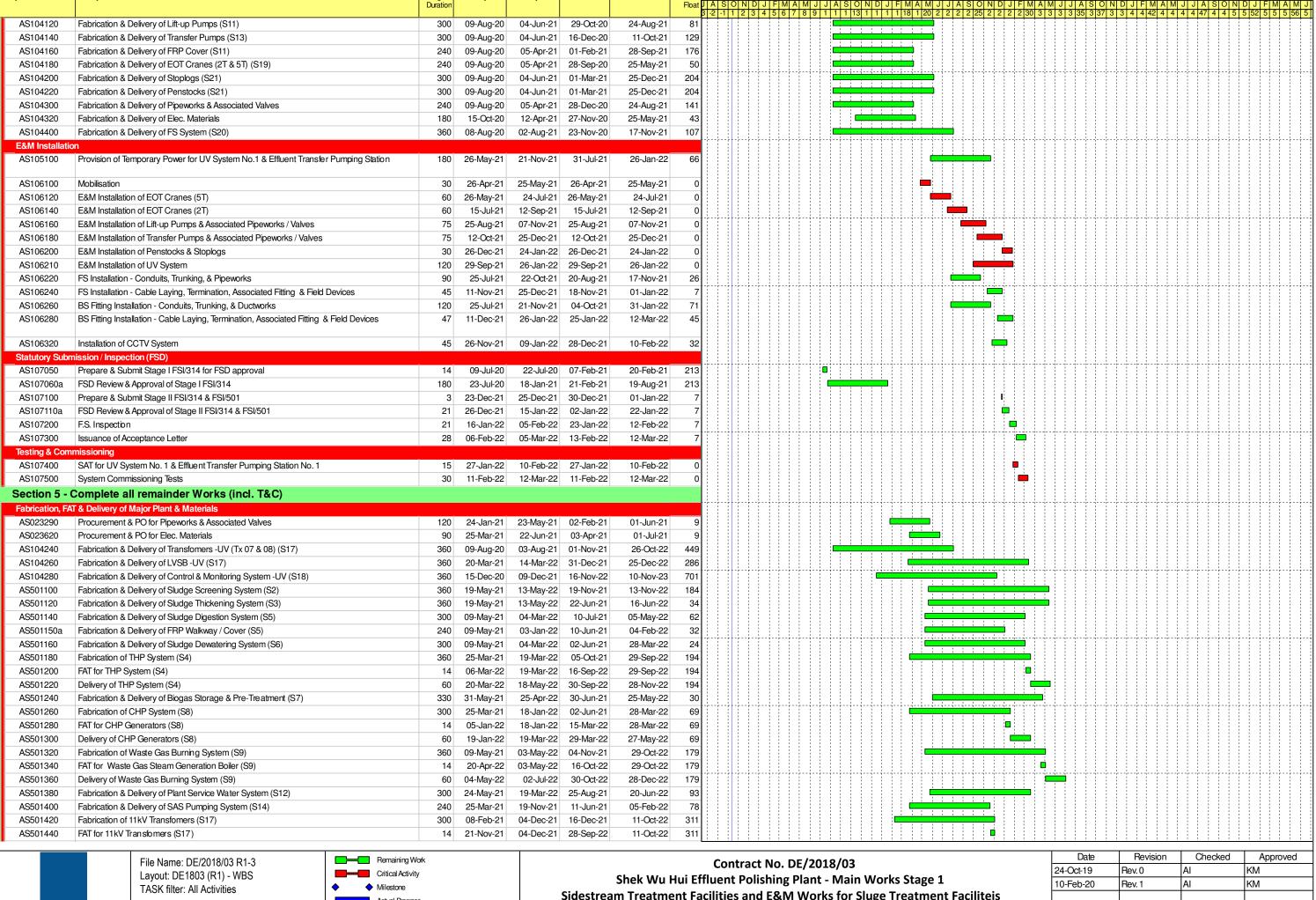
Page 7 of 13



Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM





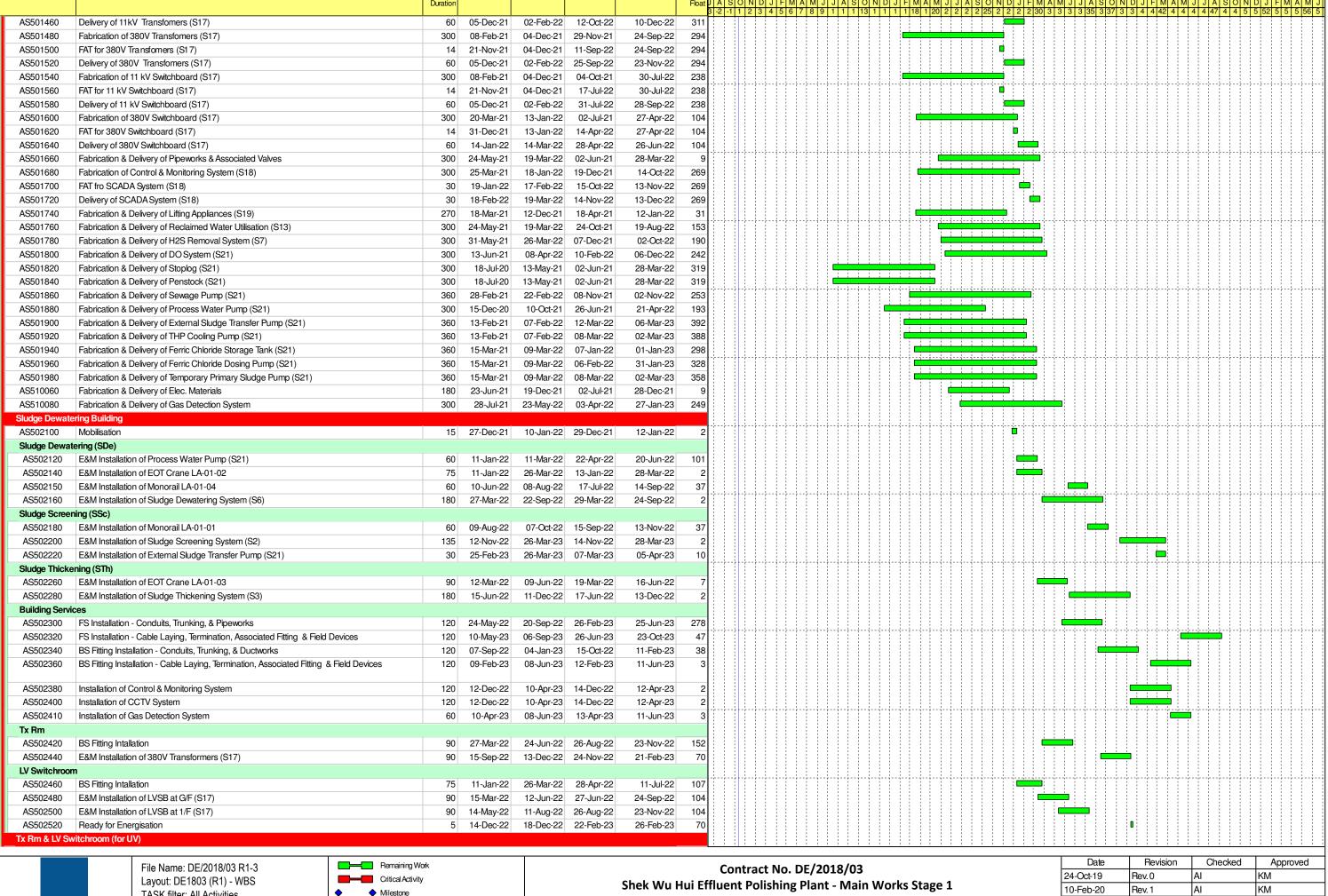


Page 9 of 13



Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM





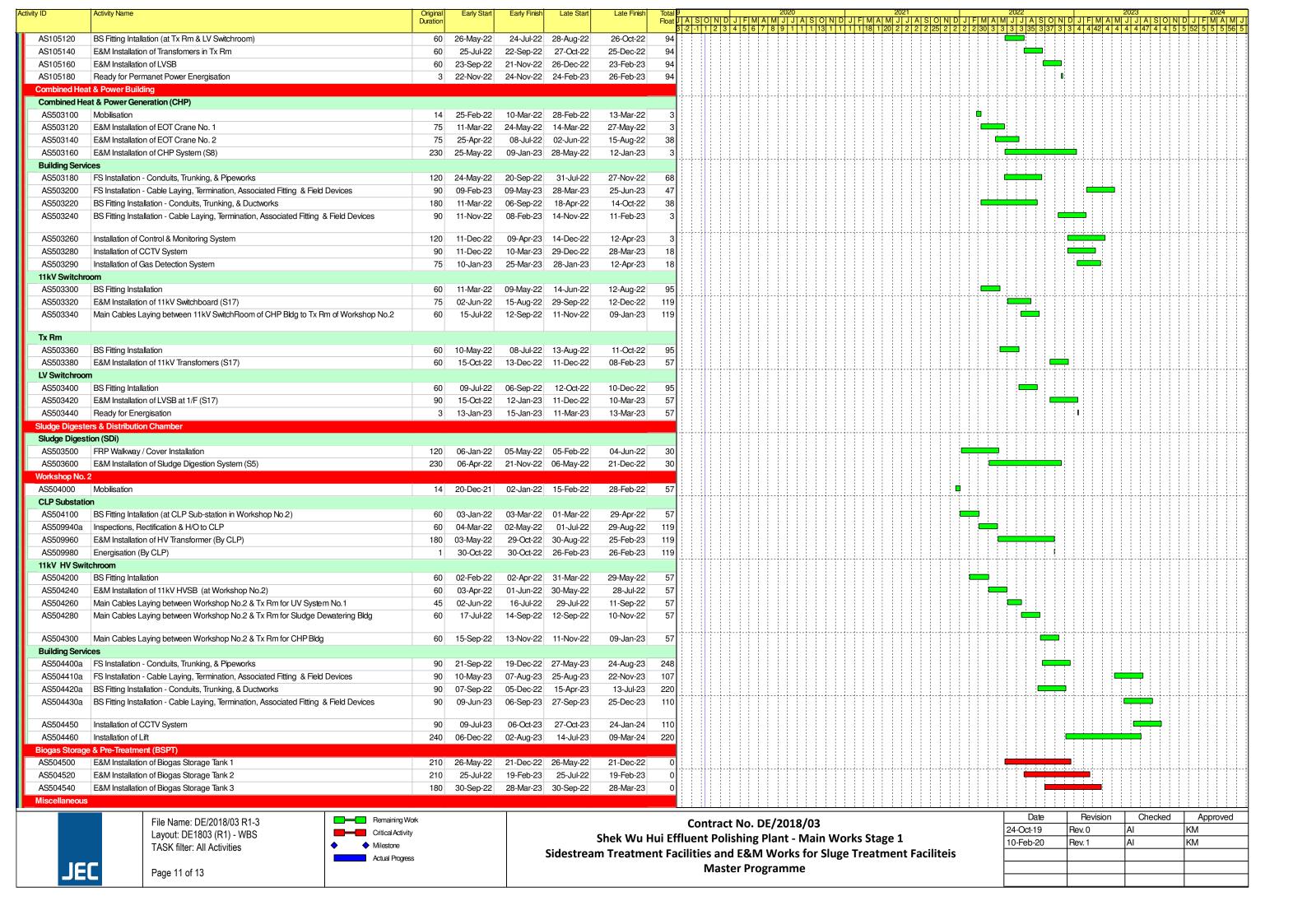
TASK filter: All Activities

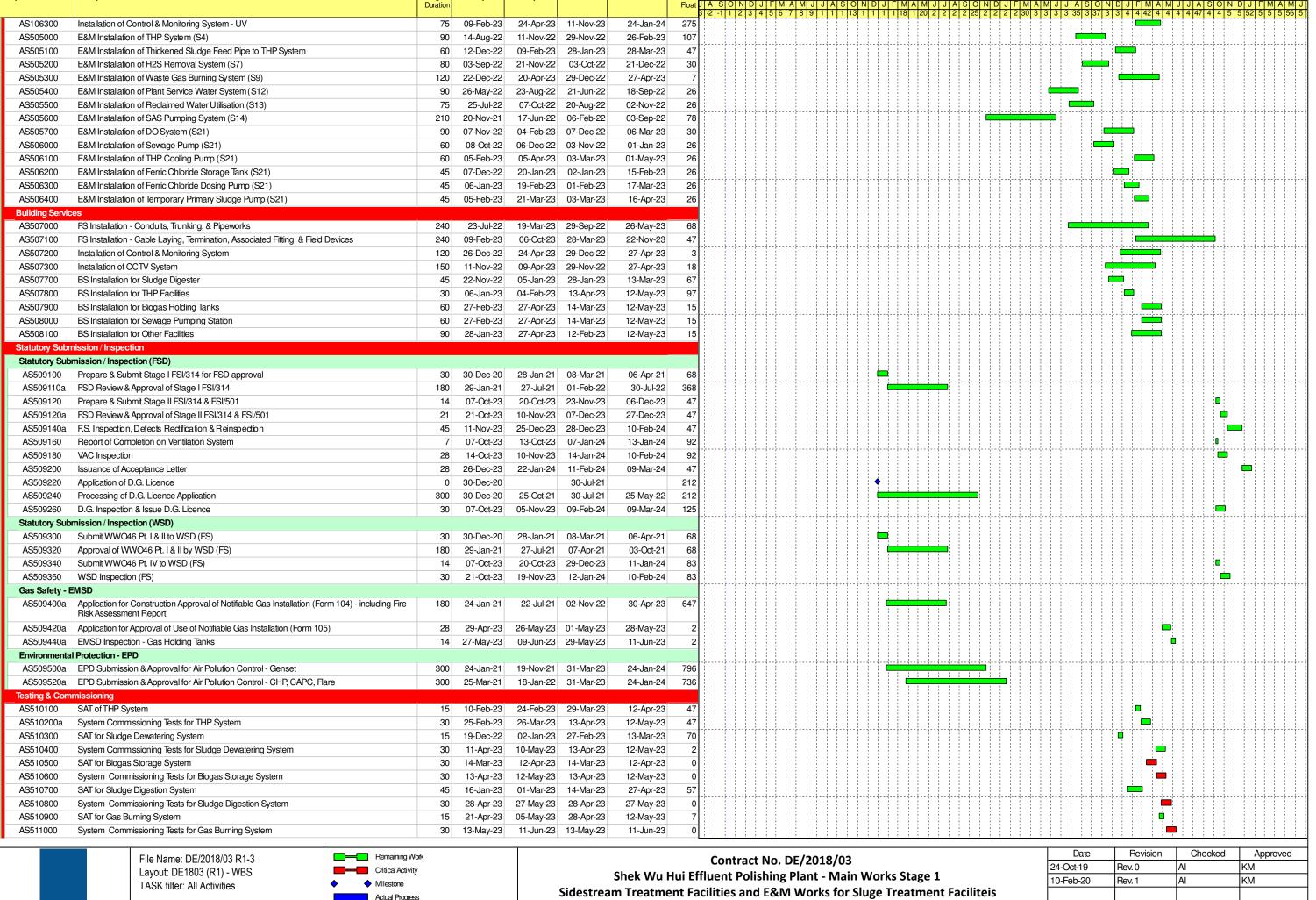
Page 10 of 13



Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM







Page 12 of 13



Master Programme

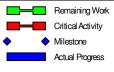
Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM

Activity ID	Activity Name	Original	Early Start	Early Finish	Late Start	Late Finish	Total 9				202	20				2021				2022				20)23			2024
ŕ		Duration	,				Float J A	SO	N D J	F M A	A M J	JAS	OND	JFN	И А М	JJ	SON	JF	MAM	JJ	ASO	N D c	F M	A M J	J A S	ONI	JJF	MAN
1054400	CATC CUID C		10.1.00	2211 22	40.4.00	40.14 00	3 -2	4-11-11	2 3 4	5 6 7	8 9	11111	13 1 1	1 1 1	8 1 20	2 2 1	2 2 25 2	2 2 2	30 3 3	3 3 3	5 3 3/	3 3 4	4 42	4 4 4	4 4/ 4	4 5 5	1 22 2	2 2 2
AS511100	SAT for CHP System	30	10-Apr-23	09-May-23	13-Apr-23	12-May-23	3		1 1		1 1 1	1 1 1			1 1 1						111		1 1 1	-				. ! !
AS511200	System Commissioning Tests for CHP System	30	13-May-23	11-Jun-23	13-May-23	11-Jun-23	0																	=				
AS511300	SAT & System Commissioning Tests for Other Facilities	45	25-Apr-23	08-Jun-23	28-Apr-23	11-Jun-23	3			1								777			,,-		7-7-7					
AS512100	Seeding	14	29-May-23	11-Jun-23	29-May-23	11-Jun-23	0																					
AS512200a	Process Start Up - Digester 1	120	12-Jun-23	09-Oct-23	12-Jun-23	09-Oct-23	0																			.		
AS512300a	Notice to Commence Phase 1 System Commissioning - Digester 1	3	10-Oct-23	12-Oct-23	09-Dec-23	11-Dec-23	60																			1		
AS512400a	Phase 1 System Commissioning - Digester 1	30	13-Oct-23	11-Nov-23	12-Dec-23	10-Jan-24	60																			=		
AS512500a	Process Start Up - Digester 2	120	11-Aug-23	08-Dec-23	11-Aug-23	08-Dec-23	0		[[[[-
AS512600a	Notice to Commence Phase 1 System Commissioning - Digester 2	3	09-Dec-23	11-Dec-23	09-Dec-23	11-Dec-23	0																			1		
AS512700a	Phase 1 System Commissioning - Digester 2	30	12-Dec-23	10-Jan-24	12-Dec-23	10-Jan-24	0																				=	
AS512800a	Phase 2 System Commissioning - Digester 1 & 2	7	11-Jan-24	17-Jan-24	11-Jan-24	17-Jan-24	0																					
AS512900a	Notice to Commence Plant Commissioning	7	18-Jan-24	24-Jan-24	18-Jan-24	24-Jan-24	0																					
AS513000a	Plant Commissioning Tests	45	25-Jan-24	09-Mar-24	25-Jan-24	09-Mar-24	0			1					-111		777-						7.7			1-1-1-		<u> </u>

JEC

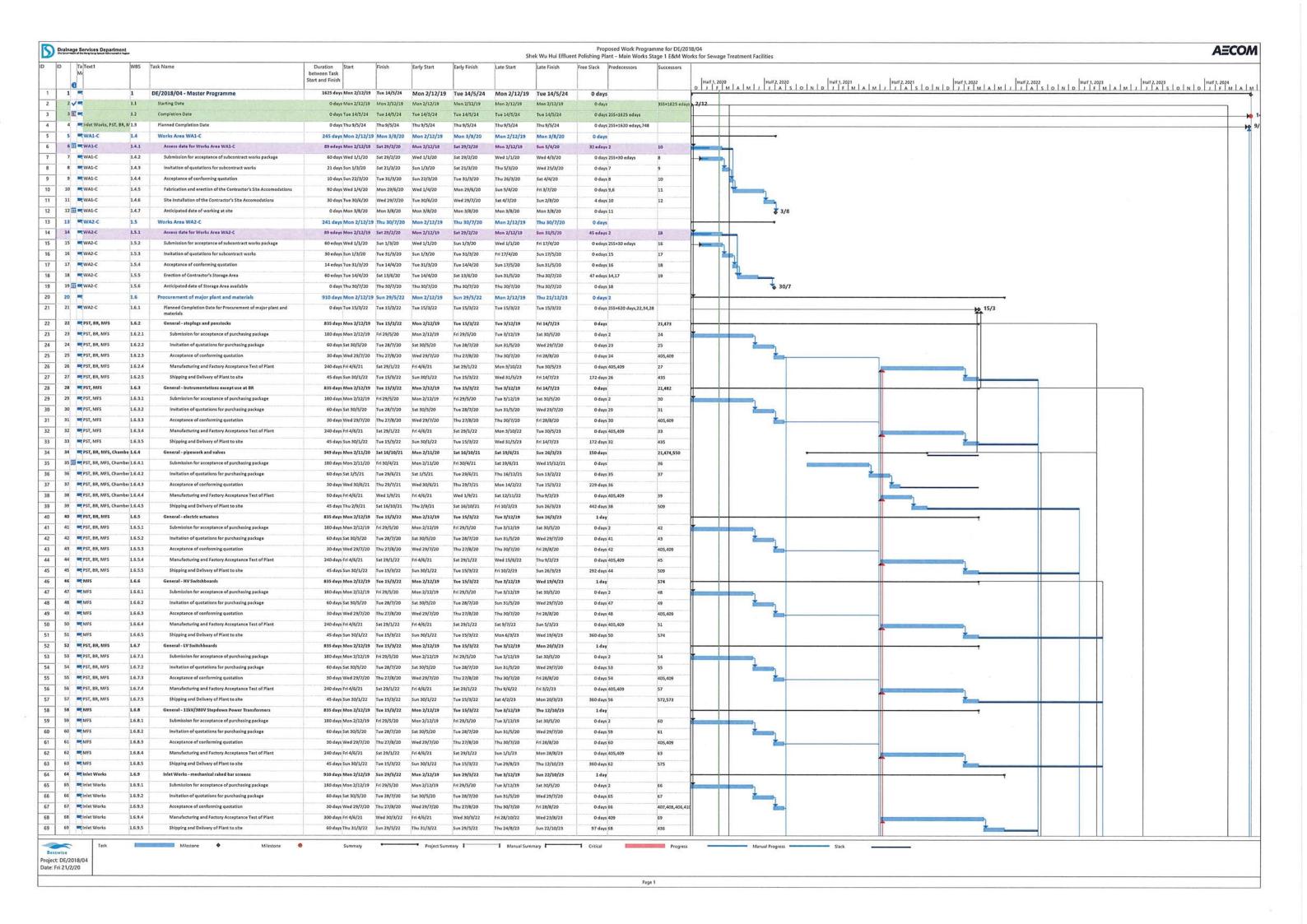
File Name: DE/2018/03 R1-3 Layout: DE1803 (R1) - WBS TASK filter: All Activities

Page 13 of 13



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
Master Programme

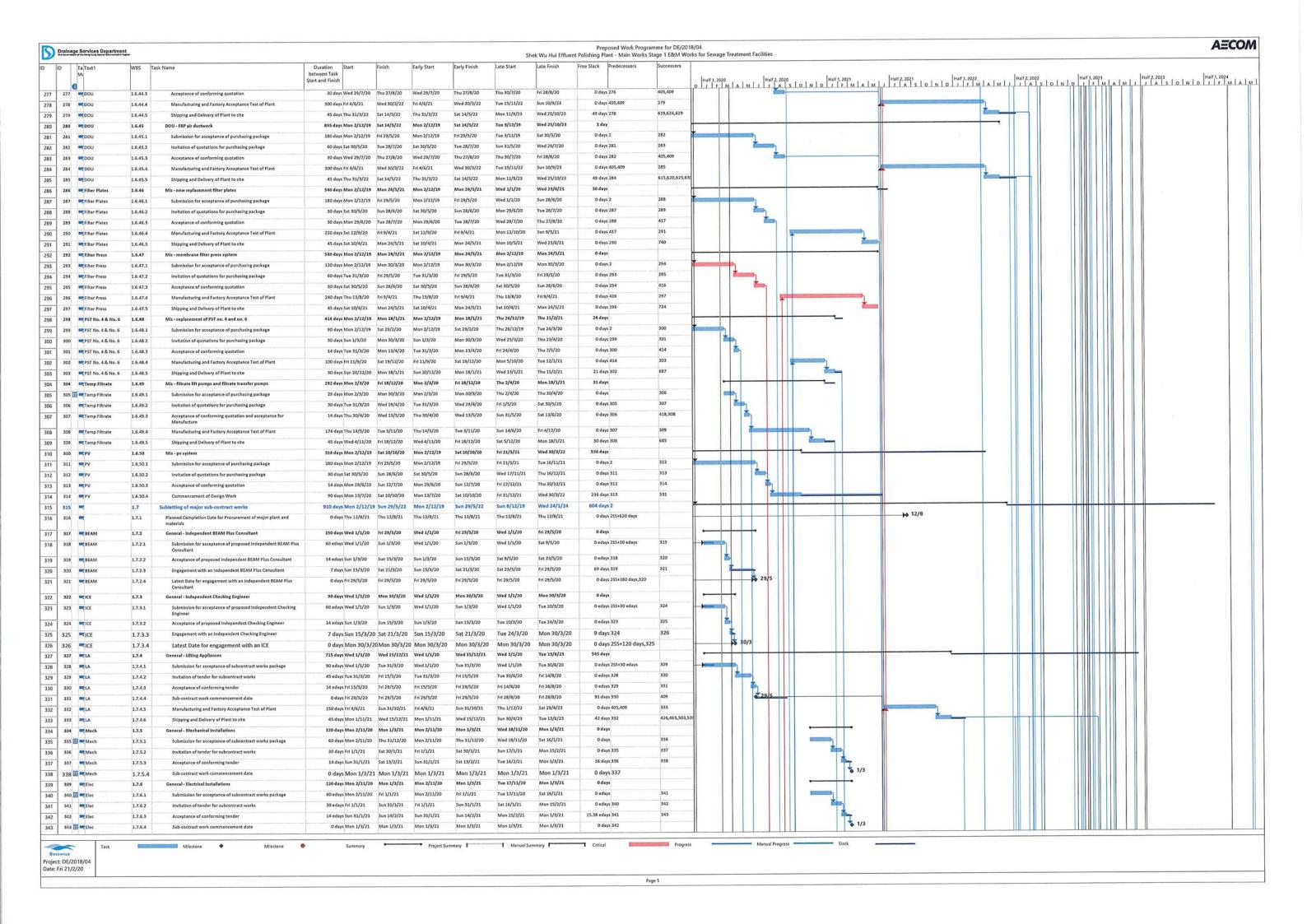
Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM



Dral	alnage	Services Departme	Tighan						3	Shek Wu Hui Efflue	Proposed Work Prog ent Polishing Plant - Main Works	Stage 1 E&M Wo	rks for Sewage	ewage Treatment Facilities
ID		Ta Text1	W8S Ta	ik Name	Duration Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors		
	6	Mc			between Task Start and Finish								Half 1, 2020	F1, 2020 Half 2, 2020 Half 3, 2021 Half 2, 2022 Half 2, 2022 Half 2, 2023 Half 3, 2023 Half 3, 2024 Half 3, 2023 Half 3, 2024 Half 3, 2
7	70	Inlet Works	1.6.10	Inlet Works - screening conveyors	910 days Mon 2/12/19	Sun 29/5/22	Mon 2/12/19	Sun 29/5/22	Tue 3/12/19	Tue 31/10/23	1 day	437		
7	71	Inlet Works	1.6.10.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	72		
		Inlet Works	1.6.10.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	100000000000000000000000000000000000000	Sat 30/5/20 Wed 29/7/20	Tue 28/7/20 Thu 27/8/20	Sun 31/5/20 Thu 30/7/20	Wed 29/7/20 Fri 28/8/20	0 days 71 0 days 72	73 407,408,406,41		
		Inlet Works	1.6.10.3	Acceptance of conforming quotation Manufacturing and Factory Acceptance Test of Plant	30 days Wed 29/7/20 300 days Fri 4/6/21	Wed 30/3/22	Fri 4/6/21	Wed 30/3/22	Sun 6/11/22	Fri 1/9/23	0 days 409	75	1 1	
	200	Inlet Works	1.6.10.5	Shipping and Delivery of Plant to site	60 days Thu 31/3/22	221300000000000	Thu 31/3/22	Sun 29/5/22	Sat 2/9/23	Tue 31/10/23	520 days 74		1 1	<u> </u>
7	76	Inlet Works	1.6.11	Inlet Works - Inlet Pumps	910 days Mon 2/12/19	Sun 29/5/22	Mon 2/12/19	Sun 29/5/22	Tue 3/12/19	Thu 26/10/23	1 day	438		
7	77	Inlet Works	1.6.11.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	O days 2	78		
7		Inlet Works	1.6.11.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20 Thu 30/7/20	Wed 29/7/20 Fri 28/8/20	0 days 77 0 days 78	79 407,408,406,41	4	
8	263	Inlet Works	1.6.11.3	Acceptance of conforming quotation Manufacturing and Factory Acceptance Test of Plant	30 days Wed 29/7/20 300 days Fri 4/6/21	Thu 27/8/20 Wed 30/3/22	Wed 29/7/20 Fri 4/6/21	Thu 27/8/20 Wed 30/3/22	Tue 1/11/22	Sun 27/8/23	0 days 409	81	1 1	
		Inlet Works	1,6.11.5	Shipping and Delivery of Plant to site	60 days Thu 31/3/22	Sun 29/5/22	Thu 31/3/22	Sun 29/5/22	Mon 28/8/23	Thu 26/10/23	515 days 80		1	<u> </u>
8	82	Inlet Works	1.6.12	Inlet Works - grit removal system	910 days Mon 2/12/19	Sun 29/5/22	Mon 2/12/19	Sun 29/5/22	Tue 3/12/19	Thu 16/11/23	1 day	439	+	
8	83	Inlet Works	1.6.12.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	84		
_		Inlet Works	1.6.12.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 83	407,408,405,41		
		Inlet Works	1.6.12.3	Acceptance of conforming quotation Manufacturing and Factory Acceptance Test of Plant	30 days Wed 29/7/20 300 days Fri 4/6/21	Thu 27/8/20 Wed 30/3/22	Wed 29/7/20 Fri 4/6/21	Thu 27/8/20 Wed 30/3/22	Thu 30/7/20 Tue 22/11/22	Fri 28/8/20 Sun 17/9/23	0 days 84 0 days 409	407,408,406,41 87	1 I	
8		Inlet Works	1.6.12.5	Shipping and Delivery of Plant to site	60 days Thu 31/3/22		Thu 31/3/22	Sun 29/5/22	Mon 18/9/23	Thu 16/11/23	536 days 86			
8	88	Inlet Works	1,6,13	Inlet Works - grit classifiers	910 days Mon 2/12/19		Mon 2/12/19	Sun 29/5/22	Tue 3/12/19	Thu 30/11/23	1 day	440	 	
8	89	Inlet Works	1.6.13.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	90		
		Inlet Works	1.6.13.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 89	91		
		Inlet Works	1,6.13.3	Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20 Wed 30/3/22	Thu 30/7/20 Tue 6/12/22	Fri 28/8/20 Sun 1/10/23	0 days 90 0 days 409	407,408,406,41	1	
		Inlet Works	1,6,13,4	Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site	300 days Fri 4/6/21 60 days Thu 31/3/22	Wed 30/3/22 Sun 29/5/22	Fri 4/6/21 Thu 31/3/22	Sun 29/5/22	Mon 2/10/23	Thu 30/11/23	550 days 92			
9		Inlet Works	1.6.14	Inlet Works - compactors	910 days Mon 2/12/19		Mon 2/12/19	Sun 29/5/22	Tue 3/12/19	Thu 30/11/23	1 day	441	-	
9	95	Inlet Works	1.6.14.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	96		
9	96	Inlet Works	1.6.14.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 95	97		
9	24	Inlet Works	1.6.14.3	Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 96	407,408,406,41		
9		Inlet Works	1.6.14.4	Manufacturing and Factory Acceptance Test of Plant	300 days Fri 4/6/21 60 days Thu 31/3/22	Wed 30/3/22	Fri 4/6/21 Thu 31/3/22	Wed 30/3/22 Sun 29/5/22	Tue 6/12/22 Mon 2/10/23	Sun 1/10/23 Thu 30/11/23	0 days 409 550 days 98	99		
		Inlet Works	1,6.14.5	Shipping and Delivery of Plant to site PST - Jamella plate settlers	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Tue 12/9/23	1 day	475	-	
		PST	1,6,15,1	Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	102		
10	102	PST	1.6.15.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 101	103		
10	103	PST	1.6.15.3	Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 102	407,408,406,43	1 1	
		PST	1.6.15.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Fri 2/12/22	Sat 29/7/23	0 days 405,409	105	1	
	27.5	PST PST	1.6.15.5	Shipping and Delivery of Plant to site PST - reciprocating type bottom scrapers	45 days Sun 30/1/22 835 days Mon 2/12/19		Sun 30/1/22 Mon 2/12/19	Tue 15/3/22 Tue 15/3/22	Sun 30/7/23 Tue 3/12/19	Tue 12/9/23 Sun 13/8/23	546 days 104 1 day	476		
		PST	1,6,16,1	Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	108		
10	108	PST PST	1.6.16.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 107	109		
10	109	PST	1.6.16.3	Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 108	407,408,406,4	1	
11	200	PST	1.6.16.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Wed 2/11/22	Thu 29/6/23	0 days 405,409	111		
		PST	1.6.16.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22 835 days Mon 2/12/19		Sun 30/1/22 Mon 2/12/19	Tue 15/3/22 Tue 15/3/22	Fri 30/6/23 Tue 3/12/19	Sun 13/8/23 Thu 21/12/23	516 days 110 1 day	477		
1000		■ PST ■ PST	1.6.17	PST - surface scurn skimmers Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	114	-	
		■ PST	1.6.17.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 113	115		
11	115	PST	1.6.17.3	Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Frl 28/8/20	0 days 114	407,408,406,4	4	
11	116	■ PST	1.6.17.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Sun 12/3/23	Mon 6/11/23	0 days 405,409	117	1 1	
		PST	1.6.17.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22		Sun 30/1/22 Man 2/12/19	Tue 15/3/22	Tue 7/11/23	Thu 21/12/23	646 days 116 1 day	478		
	118	PST PST	1.6.18	PST - scum collector pipes Submission for acceptance of purchasing package	835 days Mon 2/12/19 180 days Mon 2/12/19	Parco Desired Process	Mon 2/12/19 Mon 2/12/19	Tue 15/3/22 Fri 29/5/20	Tue 3/12/19 Tue 3/12/19	Thu 21/12/23 Sat 30/5/20	0 days 2	120	+	
		■ PST	1,6,18.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 119	121		
		■ PST	1.6.18.3	Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 120	405,409		
17	122	PST	1.6.18.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Sun 12/3/23	Mon 6/11/23	0 days 405,409	123		
	377	PST	1.6.18.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	100000000000000000000000000000000000000	Sun 30/1/22	Tue 15/3/22	Tue 7/11/23	Thu 21/12/23	646 days 122	470		
		PST PST	1.6.19	PST - piston type primary sludge pumps Submission for acceptance of purchasing package	835 days Mon 2/12/19 180 days Mon 2/12/19		Mon 2/12/19 Mon 2/12/19	Tue 15/3/22 Fri 29/5/20	Tue 3/12/19 Tue 3/12/19	Fri 22/9/23 Sat 30/5/20	1 day 0 days 2	126	+	
	-	■ PST	1.6.19.1	Submission for acceptance of purchasing package Invitation of quotations for purchasing package	60 days Sat 30/5/20	100 012 12 12 12 12 12	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 125	127		
		■ PST	1.6.19.3	Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 126	405,409		
12	128	PST	1.6.19.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Mon 12/12/22	Tue 8/8/23	0 days 405,409	129		
		PST	1.6.19.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	Section Contracts	Sun 30/1/22	Tue 15/3/22	Wed 9/8/23	Fri 22/9/23	556 days 128			
		PST	1.6.20	PST - drain pumps	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Sun 22/10/23	1 day	132		<u></u>
		PST PST	1.6.20.1	Submission for acceptance of purchasing package Invitation of quotations for purchasing package	180 days Mon 2/12/19 60 days Sat 30/5/20		Mon 2/12/19 Sat 30/5/20	Fri 29/5/20 Tue 28/7/20	Tue 3/12/19 Sun 31/5/20	Sat 30/5/20 Wed 29/7/20	0 days 2 0 days 131	133	1	
	888	₹PST	1.6.20.3	Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 132	405,409	1	
		■PST	1.6.20.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Wed 11/1/23	Thu 7/9/23	O days 405,409	135		
13	135	₹PST	1.6.20.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	Tue 15/3/22	Sun 30/1/22	Tue 15/3/22	Fri 8/9/23	Sun 22/10/23	586 days 134			
-		PST	1.6.21	PST - air blowers	835 days Mon 2/12/19	The second	Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Tue 21/11/23	1 day	481		
		PST	1.6.21.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19 Sun 31/5/20	Sat 30/5/20 Wed 29/7/20	0 days 2 0 days 137	138		
13	138	PST	1.6.21.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	146 28///20	Sat 30/5/20	Tue 28/7/20	3011 31/3/20	Wed 25/1/20	00013137		1	
ct: DE		Task		Milestone • Milestone	Summary	•	Project Su	immary I	1 Manual S	iummary I	Critical	Progres		Manual Progress Slack

Drain	nage Se	rvices Department								Shek Wu Hui Efflu	Proposed Work Progr ent Polishing Plant - Main Works			ewage Treatment Facilities	AΞ
ID	Tall	ext1	WBS Task	Name	Duration Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors	ina ioi aewagi	THE TECHNICAL SECURITY	
	Me	2246			between Task Start and Finish		- CONTROL OF CORP.						Half 1, 20	f1, 2020 Haif 2, 2020 Haif 3, 2021 Haif 3, 2021 Haif 3, 2022 Haif 3, 2023 Haif 3, 2023 Haif 3, 2023 Haif 3, 2023 Haif 3, 2024 Haif 3, 2	2, 2023 Half 1, 202/
139	9 = 1	PST	1.6.21.3	Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 138	405,409	DIF	F M A M J J A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N O J T A S O N	AISTOINIDIJIFI
140	0 = P	ST	1.6.21.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Fri 10/2/23	Sat 7/10/23	0 days 405,409	141	1		
141	1 = P	ST	1.6,21.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	Tue 15/3/22	Sun 30/1/22	Tue 15/3/22	Sun 8/10/23	Tue 21/11/23	616 days 140				
142			1.6.22	Chemical Storage and Dosing - chemical storage tanks	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Mon 26/12/22	1 day				
143			1.6.22.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19	71102292000	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19 Sun 31/5/20	Sat 30/5/20 Wed 29/7/20	0 days 2 0 days 143	144			
144			1.6.22.2	Invitation of quotations for purchasing package Acceptance of conforming quotation	60 days Sat 30/5/20 30 days Wed 29/7/20		Sat 30/5/20 Wed 29/7/20	Tue 28/7/20 Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 144	405,409			
146			1.6.22.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Thu 17/3/22	Fri 11/11/22	0 days 405,409	147			
147			1.6.22.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22		Sun 30/1/22	Tue 15/3/22	Sat 12/11/22	Mon 26/12/22	0 days 146	595,605	1 1		
148	8 = 0	hemical	1.6.23	Chemical Storage and Dosing - chemical dosing pumps	835 days Mon 2/12/19	Tue 15/3/22	Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Mon 26/12/22	1 day		1	 	
149	9 = 0	hemical	1.6.23.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	150			
150			1.6.23.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 149	151	1 1		
151			1.6.23.3	Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20 Fri 4/6/21	Thu 27/8/20	Thu 30/7/20 Thu 17/3/22	Fri 28/8/20 Fri 11/11/22	0 days 150 0 days 405,409	405,409	4 1		
152			1.6.23.4	Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site	240 days Fri 4/6/21 45 days Sun 30/1/22	Sat 29/1/22 Tue 15/3/22	Sun 30/1/22	Sat 29/1/22 Tue 15/3/22	Sat 12/11/22	Mon 26/12/22	0 days 152	595,605			
154			1.6.24	Chemical Storage and Dosing - transfer pumps	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Mon 26/12/22	1 day		-		
155			1.6.24.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19	Parameter Annual Control	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	156	+		
156	6 = 0	hemical	1.6.24.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 155	157			
157	7 = 0	hemical	1.6.24.3	Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 156	405,409			
158			1.6.24.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Thu 17/3/22	Fri 11/11/22	0 days 405,409	159	1 1		
159			1.6.24.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	Tue 15/3/22	Sun 30/1/22	Tue 15/3/22	Sat 12/11/22	Mon 26/12/22	0 days 158	595,605			
160			1.6.25	BR - pre-treatment fine screens	835 days Mon 2/12/19 180 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22 Fri 29/5/20	Tue 3/12/19 Tue 3/12/19	Wed 2/8/23 Sat 30/5/20	1 day 0 days 2	162			
161			1.6.25.1	Submission for acceptance of purchasing package Invitation of quotations for purchasing package.	60 days Sat 30/5/20	Lancing Comment	Mon 2/12/19 Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 161	163			
163			1.6.25.3	Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 162	405,409			
164	4 = 8		1.6.25.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Sat 22/10/22	Sun 18/6/23	0 days 405,409	165	1 1		
165	5 = 8	IR :	1.6.25.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	Tue 15/3/22	Sun 30/1/22	Tue 15/3/22	Mon 19/6/23	Wed 2/8/23	292 days 164	510	1		
166	6 = 8	IR .	1.6.26	BR - air diffussion system	835 days Mon 2/12/19	Tue 15/3/22	Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Thu 25/5/23	1 day				
167			1.6.26.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	168			
168			1.6.26.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	120000000000000000000000000000000000000	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 167	169 405,409	4 1		
169			1.6.26.3	Acceptance of conforming quotation Manufacturing and Factory Acceptance Test of Plant	30 days Wed 29/7/20 240 days Fri 4/6/21	Thu 27/8/20 Sat 29/1/22	Wed 29/7/20 Fri 4/6/21	Thu 27/8/20 Sat 29/1/22	Thu 30/7/20 Sun 14/8/22	Fri 28/8/20 Mon 10/4/23	0 days 168 0 days 405,409	171	4 1		
171			1.6.26.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	200000000000000000000000000000000000000	Sun 30/1/22	Tue 15/3/22	Tue 11/4/23	Thu 25/5/23	292 days 170	511	1 1		
172	2 = 8	IR .	1.6.27	BR - submersible mixers	835 days Mon 2/12/19	Tue 15/3/22	Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Wed 23/8/23	1 day		-	- 	
173	3 🔫 8	IR :	1.6.27.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	O days 2	174			
174	4 = 8	R	1.6.27.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 173	175			
175			1.6.27.3	Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 174	405,409			
176	6 = 8		1.6.27.4	Manufacturing and Factory Acceptance Test of Plant Shipping and Delivery of Plant to site	240 days Fri 4/6/21 45 days Sun 30/1/22	Sat 29/1/22	Fri 4/6/21 Sun 30/1/22	Sat 29/1/22 Tue 15/3/22	Sat 12/11/22 Mon 10/7/23	Sun 9/7/23 Wed 23/8/23	0 days 405,409 313 days 176	512	4 1		
178			1.6.28	BR - mixed liquor return pumps	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Mon 24/7/23	1 day				
179			1.6.28.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19	130000000000000000000000000000000000000	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	180			
180	0 = 8	IR .	1.6.28.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	O days 179	181			
181	1 = 8	IR :	1.6.28.3	Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 180	405,409			
182	2 = 8		1.6.28.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21		Fri 4/6/21	Sat 29/1/22	Thu 13/10/22	Fri 9/6/23	0 days 405,409	183			
183			1.6.28.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	120000000000000000000000000000000000000	Sun 30/1/22	Tue 15/3/22	Sat 10/6/23	Mon 24/7/23	292 days 182	513			
184			1.6.29	BR - scum removal systems Submission for acceptance of purchasing package	835 days Mon 2/12/19 180 days Mon 2/12/19		Mon 2/12/19 Mon 2/12/19	Tue 15/3/22 Fri 29/5/20	Tue 3/12/19 Tue 3/12/19	Wed 23/8/23 Sat 30/5/20	1 day 0 days 2	186	+		
186			1.6.29.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 185	187			
187			1.6.29.3	Acceptance of conforming quotation	30 days Wed 29/7/20	- www.inkomen	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 186	405,409	1 1		
188	8 = 8		1.6.29.4	Manufacturing and Factory Acceptance Test of Plant		Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Sat 12/11/22	Sun 9/7/23	0 days 405,409	189	1 1		
189	9 🔫 8	IR .	1.6.29.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	Tue 15/3/22	Sun 30/1/22	Tue 15/3/22	Mon 10/7/23	Wed 23/8/23	322 days 188	514			
190	4 3		1.6.30	BR - aeration blowers	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Wed 23/8/23	1 day	222			
191			1.6.30.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	O days 2	192			
192			1.6.30.2	Invitation of quotations for purchasing package Acceptance of conforming quotation	60 days Sat 30/5/20 30 days Wed 29/7/20	100000000000000000000000000000000000000	Sat 30/5/20 Wed 29/7/20	Tue 28/7/20 Thu 27/8/20	Sun 31/5/20 Thu 30/7/20	Wed 29/7/20 Fri 28/8/20	0 days 191 0 days 192	193 405,409	- 1		
193			1.6.30.4	Acceptance of conforming quotation Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Sat 12/11/22	Sun 9/7/23	0 days 405,409	195	1. 1		
	5 = 8		1.6.30.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	0.01775445165	Sun 30/1/22	Tue 15/3/22	Mon 10/7/23	Wed 23/8/23	382 days 194	515	1		
196			1.6.31	BR - Instrumentations	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Wed 23/8/23	1 day		1	 	
197	7 = 8	IR .	1.6.31.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	198			
198			1.6.31.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 197	199			
199	- 64		1.6.31.3	Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 198	405,409			
200			1.6.31.4	Manufacturing and Factory Acceptance Test of Plant Shipping and Dallyany of Plant to the	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Sat 12/11/22 Mon 10/7/23	Sun 9/7/23 Wed 23/8/23	0 days 405,409 442 days 200	201 516	- 1		
201			1.6.31.5	Shipping and Delivery of Plant to site MFS - hollow fibre membrane modules	45 days Sun 30/1/22 835 days Mon 2/12/19		Sun 30/1/22 Mon 2/12/19	Tue 15/3/22 Tue 15/3/22	Tue 3/12/19	Wed 23/8/23 Sat 10/12/22	1 day		+		
203			1.6.32.1	Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	O days 2	204	+		
204			1.6.32.2	Invitation of quotations for purchasing package	60 days Sat 30/5/20	A PASSESSE	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 203	205			
205	5 = 1	MFS	1.6.32.3	Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 204	405,409	1		
206	6 - 1	MFS	1.6.32.4	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Tue 1/3/22	Wed 26/10/22	0 days 405,409	207]]		
207	7 - 1	AFS	1.6.32.5	Shipping and Delivery of Plant to site	45 days Sun 30/1/22	Tue 15/3/22	Sun 30/1/22	Tue 15/3/22	Thu 27/10/22	Sat 10/12/22	0 days 206	545			
		T									—	7725		Manual Progress Stack	
stwise		Task		Milestone • Milestone	Summary	10E-1	Project Su	mmary I	Manual 3	ournmary I	Critical	Progre	# =	Manual Progress Stack	
	/2018/0														

Drainage Services Departs	ment spine					S	Shek Wu Hui Effluent	t Polishing Plant - Main Wor	rks Stage 1 E&M V	orks for Sewage	sewage treatment racinues
ID Ta Text1	WBS Task Name	Duration Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors		
M		Start and Finish								Half 1, 2020	alf 1, 2020 Half 2, 2020 Half 3, 2021 Half 3, 2022 Half 3, 2022 Half 3, 2023 Half 3, 2023 Half 3, 2023 Half 3, 2023 Half 3, 2024 Half 3, 2025 Half 3
208 MFS	1.6.33 MFS - air scour blowers	835 days Mon 2/12/19	Tue 15/3/22	Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Fri 25/3/22	1 day		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
209 MFS	1.6.33.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19	Frl 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	210		
210 MFS	1.6.33.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20 Fri 28/8/20	0 days 209 0 days 210	211 405,409	- 1	
211 MFS 212 MFS	1.6.33.3 Acceptance of conforming quotation 1.6.33.4 Manufacturing and Factory Acceptance Test of Plant	30 days Wed 29/7/20 240 days Fri 4/6/21	Sat 29/1/22	Wed 29/7/20 Fri 4/6/21	Thu 27/8/20 Sat 29/1/22	Thu 30/7/20 Mon 14/6/21	Tue 8/2/22	0 days 405,409	213		
213 MFS	1.6.33.5 Shipping and Delivery of Plant to site	45 days Sun 30/1/22		Sun 30/1/22	Tue 15/3/22	Wed 9/2/22	Fri 25/3/22	0 days 212	546,568		
214 MFS	1.6.34 MFS - permeate pumps	835 days Mon 2/12/19	Tue 15/3/22	Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Thu 23/6/22	1 day	547		-
215 - MFS	1.6.34.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	216		
216 MFS	1.6.34.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 215	217 405,409		
217 MFS 218 MFS	1.6.34.3 Acceptance of conforming quotation 1.6.34.4 Manufacturing and Factory Acceptance Test of Plant	30 days Wed 29/7/20 240 days Fri 4/6/21	Sat 29/1/22	Wed 29/7/20 Fri 4/6/21	Thu 27/8/20 Sat 29/1/22	Thu 30/7/20 Sun 12/9/21	Fri 28/8/20 Mon 9/5/22	0 days 216 0 days 405,409	219	-	
219 MFS	1.6.34.5 Shipping and Delivery of Plant to site	45 days Sun 30/1/22		Sun 30/1/22	Tue 15/3/22	Tue 10/5/22	Thu 23/6/22	100 days 218		-	
220 MFS	1.6.35 MFS - compressed air system	835 days Mon 2/12/19	Tue 15/3/22	Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Sat 29/7/23	1 day		1	-
221 MFS	1.6.35.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	222		
222 MFS	1.6.35.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 221	223		
223 MFS	1.6.35.3 Acceptance of conforming quotation 1.6.35.4 Manufacturing and Factory Acceptance Test of Plant	30 days Wed 29/7/20		Wed 29/7/20 Fri 4/6/21	Thu 27/8/20	Thu 30/7/20 Tue 18/10/22	Fri 28/8/20 Wed 14/6/23	0 days 222 0 days 405,409	405,409		
224 MFS 225 MFS	1.6.35.4 Manufacturing and Factory Acceptance Test of Plant 1.6.35.5 Shipping and Delivery of Plant to site	240 days Fri 4/6/21 45 days Sun 30/1/22	Sat 29/1/22 Tue 15/3/22	Sun 30/1/22	Sat 29/1/22 Tue 15/3/22	Thu 15/6/23	Sat 29/7/23	267 days 224	569		
226 MFS	1.6.36 MFS - Instrumentation	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Wed 27/9/23	1 day		+	-
227 MFS	1.6.36.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	O days 2	228		
228 MFS	1.6.36.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20	The second second	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 227	229		
229 MFS	1.6.36.3 Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 228	405,409	-	
230 MFS	1.6.36.4 Manufacturing and Factory Acceptance Test of Plant 1.6.36.5 Shipping and Delivery of Plant to site	240 days Fri 4/6/21 45 days Sun 30/1/22	Sat 29/1/22 Tue 15/3/22	Fri 4/6/21 Sun 30/1/22	Sat 29/1/22 Tue 15/3/22	Sat 17/12/22 Mon 14/8/23	Sun 13/8/23 Wed 27/9/23	0 days 405,409 327 days 230	231 570		
231 MFS	1.6.36.5 Shipping and Delivery of Plant to site 1.6.37 MFS - chemical storage tanks	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Wed 8/2/23	O days	551	+	
233 M FS	1.6.37.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19	_ (CO SAMOON)	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	234		
234 MFS	1.6.37.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 233	235		
235 MFS	1.6.37.3 Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 234	405,409		
236 MFS	1.6.37.4 Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Sat 30/4/22	Sun 25/12/22	0 days 405,409	237	4	
237 MFS	1.6.37.5 Shipping and Delivery of Plant to site	45 days Sun 30/1/22 835 days Mon 2/12/19	100000000000000000000000000000000000000	Sun 30/1/22 Mon 2/12/19	Tue 15/3/22 Tue 15/3/22	Mon 26/12/22 Tue 3/12/19	Wed 8/2/23 Wed 8/2/23	330 days 236			
238 MFS 239 MFS	1.6.38 MFS - chemical dosing pumps 1.6.38.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	240		
240 MFS	1.6.38.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 239	241		
241 MFS	1.6.38.3 Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 240	405,409		
242 MFS	1.6.38.4 Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Sat 30/4/22	Sun 25/12/22	0 days 405,409	243		
243 MFS	1.6.38.5 Shipping and Delivery of Plant to site	45 days Sun 30/1/22	1 1000000000000000000000000000000000000	Sun 30/1/22	Tue 15/3/22	Mon 26/12/22	Wed 8/2/23	0 days 242	552		
244 MFS	1.6.39 MFS - return activated sludge pumps 1.6.39.1 Submission for acceptance of purchasing package	835 days Mon 2/12/19 180 days Mon 2/12/19		Mon 2/12/19 Mon 2/12/19	Tue 15/3/22 Fri 29/5/20	Tue 3/12/19 Tue 3/12/19	Thu 23/6/22 Sat 30/5/20	1 day 0 days 2	246	-	
245 MFS	1.6.39.2 Invitation of quotations for purchasing package	60 days 5at 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 245	247	-	
247 MFS	1.6.39.3 Acceptance of conforming quotation	30 days Wed 29/7/20	Thu 27/8/20	Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 246	405,409	1 1	
248 MFS	1.6.39.4 Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Sun 12/9/21	Mon 9/5/22	0 days 405,409	249		
249 MFS	1.6.39.5 Shipping and Delivery of Plant to site	45 days Sun 30/1/22		Sun 30/1/22	Tue 15/3/22	Tue 10/5/22	Thu 23/6/22	90 days 248	548		
250 MFS	1.6.40 MFS - membrane tank drain pumps	835 days Mon 2/12/19 180 days Mon 2/12/19		Mon 2/12/19 Mon 2/12/19	Tue 15/3/22 Fri 29/5/20	Tue 3/12/19 Tue 3/12/19	Tue 24/5/22 Sat 30/5/20	1 day 0 days 2	252		
251 MFS 252 MFS	1.6.40.1 Submission for acceptance of purchasing package 1.6.40.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 251	253	-	
253 MFS	1.6.40.3 Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 252	405,409		
254 MFS	1.6.40.4 Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Fri 13/8/21	Sat 9/4/22	0 days 405,409	255		
255 MFS	1.6.40.5 Shipping and Delivery of Plant to site	45 days Sun 30/1/22		Sun 30/1/22	Tue 15/3/22	Sun 10/4/22	Tue 24/5/22	0 days 254	549		
256 KMFS	1.6.41 Plant Service Water System - booster pumps	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Tue 24/1/23	1 day	250		
257 MFS	1.6.41.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19 60 days Sat 30/5/20	I BURNING.	Mon 2/12/19 Sat 30/5/20	Fri 29/5/20 Tue 28/7/20	Tue 3/12/19 Sun 31/5/20	Sat 30/5/20 Wed 29/7/20	0 days 2 0 days 257	258 259		
258 MFS 259 MFS	1.6.41.2 Invitation of quotations for purchasing package 1.6.41.3 Acceptance of conforming quotation	30 days Wed 29/7/20		Wed 29/7/20	Thu 27/8/20	Thu 30/7/20	Fri 28/8/20	0 days 258	405,409		
260 MFS	1.6.41.4 Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Fri 15/4/22	Sat 10/12/22	0 days 405,409	261		
261 MFS	1.6.41.5 Shipping and Delivery of Plant to site	45 days Sun 30/1/22	Tue 15/3/22	Sun 30/1/22	Tue 15/3/22	Sun 11/12/22	Tue 24/1/23	0 days 260	553		
262 MFS	1.6.42 Plant Service Water System - hydro-pneumatic pressure tanks	835 days Mon 2/12/19		Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Tue 24/1/23	1 day			
263 MFS	1.6.42.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19	and a south of the second	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	264		
264 MFS	1.6.42.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20 30 days Wed 29/7/20		Sat 30/5/20 Wed 29/7/20	Tue 28/7/20 Thu 27/8/20	Sun 31/5/20 Thu 30/7/20	Wed 29/7/20 Fri 28/8/20	0 days 263 0 days 264	405,409		
265 MFS 266 MFS	1.6.42.3 Acceptance of conforming quotation 1.6.42.4 Manufacturing and Factory Acceptance Test of Plant	240 days Fri 4/6/21	Sat 29/1/22	Fri 4/6/21	Sat 29/1/22	Fri 15/4/22	Sat 10/12/22	0 days 405,409	267		
267 MFS	1.6.42.5 Shipping and Delivery of Plant to site	45 days Sun 30/1/22		Sun 30/1/22	Tue 15/3/22	Sun 11/12/22	Tue 24/1/23	0 days 266	553		
268 D OU	1.6.43 DOU - blotrickling filter (DOU No. 1)	835 days Mon 2/12/19	Tue 15/3/22	Mon 2/12/19	Tue 15/3/22	Tue 3/12/19	Wed 25/10/23	1 day			
269 DOU	1.6.43.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19		Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	270		
270 DOU	1.6.43.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20		Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 269	271		
271 CDOU	1.6.43.3 Acceptance of conforming quotation 1.6.43.4 Manufacturing and Factory Acceptance Test of Plant	30 days Wed 29/7/20 240 days Fri 4/6/21	Thu 27/8/20 Sat 29/1/22	Wed 29/7/20 Fri 4/6/21	Thu 27/8/20 Sat 29/1/22	Thu 30/7/20 Sat 14/1/23	Fri 28/8/20 Sun 10/9/23	0 days 270 0 days 405,409	405,409		
272 DOU	1.6.43.5 Shipping and Delivery of Plant to site	45 days Sun 30/1/22	1 1100000000000000000000000000000000000	Sun 30/1/22	Tue 15/3/22	Mon 11/9/23	Wed 25/10/23	109 days 272	614		
274 = DOU	1.6.44 DOU - activated carbon filter (DOU No. 2A, No. 3A, No. 3B)	895 days Mon 2/12/19		Mon 2/12/19	Sat 14/5/22	Tue 3/12/19	Wed 25/10/23	1 day		-	
275 DOU	1.6.44.1 Submission for acceptance of purchasing package	180 days Mon 2/12/19	Fri 29/5/20	Mon 2/12/19	Fri 29/5/20	Tue 3/12/19	Sat 30/5/20	0 days 2	276		
276 C DOU	1.6.44.2 Invitation of quotations for purchasing package	60 days Sat 30/5/20	Tue 28/7/20	Sat 30/5/20	Tue 28/7/20	Sun 31/5/20	Wed 29/7/20	0 days 275	277		
					150						The state of the s
Task	Milestone • Milestone	Summary		Project Su	mmary	Manual S	ummary I	Critical	Prog	55	Manual Progress Slack
ect: DE/2018/04											



AECOM Proposed Work Programme for DE/2018/04 Drainage Services Department Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 E&M Works for Sewage Treatment Facilities Duration between Task Start and Finish Early Finish Late Start Late Finish Free Slack Predecessor Ved 10/5/23 Sun 29/5/22 Sun 1/3/20 Sun 29/5/22 Sat 16/5/2 General - Facility Computerised Systems (SCADA, CMMS, PMS, IDMS 820 days Sun 1/3/20 345 345 E SCADA 1.7.7.1 60 edays Sun 1/3/20 Thu 30/4/20 Sun 1/3/20 Thu 30/4/20 Sat 16/5/20 Wed 15/7/20 0 edays Submission for acceptance of subcontract works package 0 edays 345 346 346 SCADA 30 edays Thu 30/4/20 Sat 30/5/20 Thu 30/4/20 Fri 14/8/20 1.7.7.2 Invitation of tender for subcontract works 0 edays 346 347 347 SCADA 1.7.7.3 14 edays Sat 30/5/20 Sat 13/6/20 Sat 30/5/20 Sat 13/6/20 Fri 14/8/20 Fri 28/8/20 76 days 347 405 409 348 348 SCADA 1.7.7.4 0 days Sat 13/6/20 Sat 13/6/20 Sat 13/6/20 Sat 13/6/20 Fri 28/8/20 Fri 28/8/20 Sub-contract work commencement date 349 349 SCADA 1.7.7.5 Manufacturing and Factory Acceptance Test of Plant 360 days Fri 4/6/21 Sun 29/5/22 Fri 4/6/21 Sun 29/5/22 Mon 16/5/22 Wed 10/5/23 201 days 405,409 448,486,519,5 350 General - Building Services Installations 119 days Mon 2/11/20 Mon 1/3/21 Mon 1/3/21 1.7.8 O edays 351 351 = 85 1.7.8.1 Submission for acceptance of subcontract works package 60 edays Mon 2/11/20 Fri 1/1/21 Mon 2/11/20 Fri 1/1/21 Tue 17/11/20 Sat 16/1/21 Mon 15/2/21 0 edays 351 353 352 30 edays Fri 1/1/21 Sun 31/1/21 Sun 31/1/21 Sat 16/1/21 352 89 1.7.8.2 Invitation of tender for subcontract work 15 edays 352 353 353 85 1.7.8.3 Acceptance of conforming tender 14 edays Sun 31/1/21 Sun 14/2/21 Sun 31/1/21 Sun 14/2/21 Mon 15/2/21 Mon 1/3/21 **\$ 1/3** 354 354 **■ ■**BS Mon 1/3/21 Mon 1/3/21 Mon 1/3/21 0 days 353 0 days Mon 1/3/21 Mon 1/3/21 Mon 1/3/21 1.7.8.4 0 days 355 355 MVA 1.7.9 General - Air Conditioning and Mechanical Ventilation Installation 119 days Mon 2/11/20 Mon 1/3/21 Mon 2/11/20 Mon 1/3/21 Tue 17/11/20 Mon 1/3/21 356 E MVAC Fri 15/1/21 0 days 356 1.7.9.1 Submission for acceptance of subcontract works package 0.63 edays 356 357 357 MVAC 1.7.9.2 Invitation of tender for subcontract works 30 edays Thu 31/12/20 Sat 30/1/21 Thu 31/12/20 Sat 30/1/21 Sat 16/1/21 Mon 15/2/21 Acceptance of conforming tender Mon 15/2/21 Sun 28/2/21 15 days 357 358 1.7.9.3 14 days Sun 31/1/21 Sat 13/2/21 Sat 13/2/21 0 days 358 Mon 1/3/21 Mon 1/3/21 359 359 T MVAC 1.7.9.4 Sub-contract work commencement date 0 days Mon 1/3/21 Mon 1/3/21 Mon 1/3/21 Mon 1/3/21 Wed 24/1/24 1198 days 360 1.7.10 General - Emergency Power Generator Set 104 days Wed 1/7/20 Tue 13/10/20 Wed 1/7/20 Tue 13/10/20 Thu 12/10/23 0 edays Sun 30/8/20 Thu 12/10/23 Mon 11/12/23 361 361 File Genset 1.7.10.1 Submission for acceptance of subcontract works package 60 edays Wed 1/7/20 Sun 30/8/20 Wed 1/7/20 Tue 29/9/20 Mon 11/12/23 Wed 10/1/24 0 edays 361 362 1.7.10.2 30 edays Sun 30/8/20 Tue 29/9/20 0 edays 362 363 Wed 24/1/24 363 Genset 1.7.10.3 Acceptance of conforming tender 14 edays Tue 29/9/20 Tue 13/10/20 Tue 29/9/20 Tue 13/10/20 Wed 10/1/24 364 364 Gense 1.7.10.4 0 days Tue 13/10/20 Tue 13/10/20 Tue 13/10/20 Wed 24/1/24 Wed 24/1/24 234 days 363 638 Wed 21/12/22 Tue 14/7/20 Sat 8/10/22 365 365 P&D 1.7.11 General - Plumbing and Drainage Installation 74 days Fri 1/5/20 Tue 14/7/20 Fri 1/5/20 30 edays Fri 1/5/20 Sun 31/5/20 Fri 1/5/20 Sun 31/5/20 Sat 8/10/22 Mon 7/11/22 O edays 255+30 edays 366 E - P&D 1.7.11.1 Wed 7/12/22 367 367 P&D 1.7.11.2 Invitation of tender for subcontract works 30 edays Sun 31/5/20 Tue 30/6/20 Sun 31/5/20 Tue 30/6/20 Mon 7/11/22 O edays 366 Tue 14/7/20 Tue 14/7/20 Wed 7/12/22 Wed 21/12/22 O edays 367 368 1.7.11.3 Wed 21/12/22 369 0 days Tue 14/7/20 Tue 14/7/20 Tue 14/7/20 Wed 21/12/22 369 P&D 1.7.11.4 Sub-contract work commencement date Tue 14/7/20 370 123 days Fri 1/5/20 Tue 1/9/20 Fri 1/5/20 Tue 1/9/20 Wed 20/5/20 Tue 1/9/20 0 days 1.7.12 Sat 18/7/20 371 371 TE - FS Mon 29/6/20 Fri 1/5/20 Mon 29/6/20 Wed 20/5/20 1.7.12.1 Submission for acceptance of subcontract works package 60 days Fri 1/5/20 372 1.7.12.2 30 days Tue 30/6/20 Wed 29/7/20 Wed 29/7/20 Sun 19/7/20 Mon 17/8/20 0 days 371 373 19 days 372 Tue 18/8/20 Mon 31/8/20 373 14 days Thu 30/7/20 Wed 12/8/20 Thu 30/7/20 Wed 12/8/20 373 FSI 1.7.12.3 Acceptance of conforming tender 374 374 🔟 🖛 FS 0 days Tue 1/9/20 Tue 1/9/20 Tue 1/9/20 Tue 1/9/20 Tue 1/9/20 Tue 1/9/20 0 days 373 1.7.12.4 Tue 1/12/20 Fri 1/5/20 Tue 1/12/20 Mon 20/7/20 375 375 Earth 1.7.13 General - Earthing and Ughtning Protection System 214 days Fri 1/5/20 Tue 1/12/20 376 90 edays Fri 1/5/20 Thu 30/7/20 Fri 1/5/20 Thu 30/7/20 Mon 20/7/20 Sun 18/10/20 Oedays 376 E Earth 1.7.13.1 Sat 29/8/20 377 30 edays Thu 30/7/20 Sat 29/8/20 Thu 30/7/20 377 Earth 1.7.13.2 Invitation of tender for subcontract works 379 378 378 Earth 14 edays Sat 29/8/20 Sat 12/9/20 Sat 29/8/20 Sat 12/9/20 Tue 17/11/20 Tue 1/12/20 80 edays 377 1.7.13.3 **%** 1/12 379 379 Farth Tue 1/12/20 0 days 378 Tue 1/12/20 Tue 1/12/20 1.7.13.4 Sub-contract work commencement date 0 days Tue 1/12/20 Tue 1/12/20 Tue 1/12/20 294 days Mon 1/6/20 Sun 21/3/21 1.7.14 Mon 1/6/20 Sun 21/3/21 Fri 5/8/22 Thu 25/5/23 795 days Wed 1/7/20 30 edays Mon 1/6/20 Wed 1/7/20 381 Mon 1/6/20 381 T CCTV 1.7.14.1 Submission for acceptance of subcontract works package 382 382 CCTV Invitation of tender for subcontract works 30 edays Wed 1/7/20 Fri 31/7/20 Wed 1/7/20 Fri 31/7/20 Sun 4/9/22 Tue 4/10/22 0 edays 381 1.7.14.2 383 Fri 14/8/20 Fri 31/7/20 Fri 14/8/20 Tue 18/10/22 383 CCTV 14 edays Fri 31/7/20 1.7.14.3 Acceptance of conforming tender 384 384 CCTV 1.7.14,4 0 days Fri 14/8/20 Fri 14/8/20 Fri 14/8/20 Fri 14/8/20 Tue 18/10/22 Tue 18/10/22 0 days 383 385 Sun 21/3/21 Fri 14/8/20 Sun 21/3/21 501 days 384 385 CCTV Design, Procurements and Delivery to Site 220 days Fri 14/8/20 1.7.14.5 386 386 Civil 1.7.15 General - Civil Construction Work for underground pipework 121 days Tue 1/9/20 Thu 31/12/20 Tue 1/9/20 Thu 31/12/20 Sun 18/10/20 Thu 31/12/20 0 days 387 30 days Tue 1/9/20 Wed 30/9/20 Wed 30/9/20 0 days 387 E Civil 1.7.15.1 Submission for acceptance of subcontract works package 388 388 CIVII 1.7.15.2 Invitation of tender for subcontract works 30 days Thu 1/10/20 Fri 30/10/20 Thu 1/10/20 Fri 30/10/20 Tue 17/11/20 Wed 16/12/20 0 days 387 14 days Sat 31/10/20 Fri 13/11/20 47 days 388 389 Acceptance of conforming tender 1.7.15.3 0 days 389 390 390 TE CIVII 1.7.15.4 Sub-contract work commencement date 0 days Thu 31/12/20 Thu 31/12/20 Thu 31/12/20 Thu 31/12/20 Thu 31/12/20 Thu 31/12/20 56 days Mon 2/3/20 Sun 26/4/20 1 day Sun 26/4/20 Tue 3/3/20 Tue 28/4/20 391 1.7.16 General - Civil Construction Work for Temp. Filtrate Eq. System 391 Temp Filtrate 0 days 2SS+30 edays 392 392 Temp Filtrate 1.7.16.1 Submission for acceptance of subcontract works package 21 days Mon 2/3/20 Sun 22/3/20 Mon 2/3/20 Sun 22/3/20 Tue 3/3/20 Mon 23/3/20 Mon 13/4/20 0 days 392 393 21 days Mon 23/3/20 Sun 12/4/20 Sun 12/4/20 Tue 24/3/20 1.7.16.2 Temp Filtrate 0 days 393 394 394 Temp Filtrate 1.7.16.3 Acceptance of conforming tender 14 days Mon 13/4/20 Sun 26/4/20 Mon 13/4/20 Sun 26/4/20 Tue 14/4/20 Mon 27/4/20 Tue 28/4/20 0 days 394 676 395 395 Temp Filtrate 1.7.16.4 Sun 26/4/20 396 396 existing gense 1.7.17 Mis - Modification of existing power house 115 days Mon 2/12/19 Wed 25/3/20 Mon 2/12/19 Wed 25/3/20 Sun 8/12/19 Tue 31/3/20 0 days Sat 29/2/20 Sun 8/12/19 Ed 6/3/20 0 days 2 397 1.7.17.1 sion for acceptance of subcontract works package 90 days Mon 2/12/19 Sat 29/2/20 existing genset Fri 27/3/20 0 days 397 398 398 existing genset 1.7.17.2 invitation of tender for subcontract works 21 days Sun 1/3/20 Sat 21/3/20 Sun 1/3/20 Sat 21/3/20 Sat 7/3/20 399 399 existing genset 3 days Sun 22/3/20 Tue 24/3/20 Sat 28/3/20 Mon 30/3/20 0 days 398 400 1.7.17.3 Acceptance of conforming tender Tue 24/3/20 400 existing genset Tue 31/3/20 0 days 399 400 1.7.17.4 Sub-contract work commencement date 1 day Wed 25/3/20 Wed 25/3/20 Wed 25/3/20 Wed 25/3/20 Tue 31/3/20 401 1 day 2 401 Section 1 - Completion of the design of E&M Works for all 485 days Thu 26/3/20 Sat 24/7/21 Sat 24/7/21 Sat 24/7/21 works as defined in WI_GP Cl. 10.1(a) 0 days 255+600 edays,413,420 Sat 24/7/21 402 402 F Inlet Works, P5T, BR, N 1.8.1 Section 1 - Latest Completion Date 0 days Sat 24/7/21 Sat 24/7/21 Sat 24/7/21 Sat 24/7/21 Sat 24/7/21 403 Fri 6/11/20 Fri 6/11/20 1 day 255+340 edays 405 407 ₩ 6/11 403 E Inlet Works, PST, BR, N 1.8.2 0 days 255+550 edays, 410, 411, 531 404 404 Time Inlet Works, PST, BR, N 1.E.3 Key Date KD1B, document submissions Part 2 0 days Fri 4/6/21 Fri 4/6/21 Fri 4/6/21 Fri 4/6/21 Fri 4/6/21 Fri 4/6/21 405 Document Submissions for design work from formation level up to +8.0 mPD 1 day 25.31.43.49.55.121.127, 104.164,170,1 405 Inlet Works, PST, BR, 1.8.4 MFS,LA,PV, DOU, Thu 5/11/20 Sat 29/8/20 Fri 6/11/20 0 days 67 73 79 85 91 97 103 1 403 406 70 days Fri 28/8/20 406 Inlet Works, PST, BR, N 1.8.4.1 Drawing submissions for acceptance Fri 6/11/20 0 days 67,73,79,85,91,97,103,1 403 407 407 Inlet Works, PST, BR, M1.8.4.2 Plant and Material submissions for acceptance 70 days Fri 28/8/20 Thu 5/11/20 Fri 28/8/20 Thu 5/11/20 Sat 29/8/20 Fri 6/11/20 0 days 67 73 79 85 91 97 103 1 403 531 408 Thu 5/11/20 Sat 29/8/20 408 Inlet Works, PST, BR, N 1.8.4.3 Fri 4/6/21 0 days 331,25,31,43,49,55,121, 68,74,80,86,9 409 409 Inlet Works, PST, BR, N 1.8.5 Document Submissions for design work above level +8.0 mPD 280 days Thu 27/8/20 Thu 3/6/21 Thu 27/8/20 Thu 3/6/21 Fri 28/8/20 Thu 3/6/21 Fri 4/6/21 0.63 edays 67.73.79.85.91.97.103.1 404 410 410 Inlet Works, PST, BR, N 1.8.5.1 Drawing submissions for acceptance 280 edays Thu 27/8/20 Thu 3/6/21 Thu 27/8/20 Fri 28/8/20 0.63 edays 67,73,79,85,91,97,103,1 404 411 Fri 4/6/21 411 Inlet Works, PST, BR, N 1.8.5.2 Plant and Material submissions for acceptant 280 edays Thu 27/8/20 Thu 3/6/21 Thu 27/8/20 Thu 3/6/21 Fri 28/8/20 Manual Progress Manual Summary Progress Project Summary 1 Critical Milestone • Project: DE/2018/04 Date: Fri 21/2/20

	Drain	nage Se	vices Department	_						9	hek Wu Hui Effluer	Proposed Work Progr nt Polishing Plant - Main Works			tment Facil	ities									AΞ
	ID	Tall	ext1	was T	ask Name		Finish	Early Start	Early Finish		DESCRIPTION OF STREET														
1		Me		1				100000000000000000000000000000000000000	PERSONALISES.		A STATE OF THE STA	1		Half 1, 2020		Half 2, 2020	Half 1, 2021	Half 2, 2021	Half 1, 2022	Half 2, 2	.022	Half 1, 2023	Half 2,	2023	Half 1, 2024
1	417	0	let Works, PST, BR,	N 1.8.5.3	Design Calculations for acceptance	280 edays Thu 27/8/20	Thu 3/6/21	Thu 27/8/20	Thu 3/6/21	Fri 28/8/20	Fri 4/6/21	0.63 edays 67,73,79,85,91,97,1	03,1 404	DIFMA	MI	JASOND	DIEMIALM	HIJAISIOIN	DIJIFIMIAIM		ISIOINID		^ M / / /	ISTOINID	11111
10 10 10 10 10 10 10 10					Document Submissions for remaining work	465 days Thu 26/3/20	Sat 3/7/21	Thu 26/3/20	Sat 3/7/21	Wed 1/4/20	Sun 18/7/21	0 days	402,420	+	-										
March Marc	414	4 💌	ST No. 4 & No. 6	1.8.6.1	Design submissions for retrofitting the existing PST No. 4 and No. 6	150 days Tue 14/4/20	Thu 10/9/20	Tue 14/4/20	Thu 10/9/20	Fri 8/5/20	Sun 4/10/20	0 days 301	302]]	*										
18 10 10 10 10 10 10 10	415	5 ===	xisting genset	1.8.6.2		30 days Thu 26/3/20	Fri 24/4/20	Thu 26/3/20	Fri 24/4/20	Wed 1/4/20	Thu 30/4/20	0 days 396,400	716		10-										
1	416	6 💌	Iter Press	1.8.6.3		45 days Mon 29/6/20	Wed 12/8/20	Mon 29/6/20	Wed 12/8/20	Mon 29/6/20	Wed 12/8/20	0 days 295	296	1											
March Marc			Andrew Vice met	1	thickening building									4											
No. Control	-					The state of the s							290		1	The same of the sa									
West	418	8	emp Filtrate	1.8.6.5		45 days Thu 14/5/20	Sat 27/6/20	TNU 14/5/20	Sat 27/6/20	Fn 4/6/21	3un 10///21	359 0475 307													
Part	419	9 = 0	ou	1.8.6.6	DG Stores Submissions to FSD for approval	120 days Sat 6/3/21	Sat 3/7/21	Sat 6/3/21	Sat 3/7/21	Sun 21/3/21							4	1							
March Marc			isk Allowance	Distant.					- Automobile				402					12							
Part	1 421	1 =		1.9			Fri 19/4/24	Mon 2/12/19	Fri 19/4/24	Mon 20/12/21	Sat 20/4/24	1 day 2													
State Stat														1											
Section Sect	1 42		der Werke DET HD	W101		O days Eri 19/4/24	Eri 19/4/24	Eri 19/4/24	Eri 19/4/24	Fri 19/4/24	Fri 19/4/24	0 days 255+1600 edays 53	5.669		ş.						4				
State	0.75	1																		-					
No.	-				Tentative Civil Handover Date, Portion B-2, Inlet Works No. 1								426,425,455F	4						(a)	4/8				
10 10 10 10 10 10 10 10	-					420 days Fri 5/8/22	Thu 28/9/23	Fri 5/8/22	Thu 28/9/23	Fri 26/5/23	Sat 20/4/24	195 days 385,424	669	1						6	 				
No. 1.50 1		6 =1	let Works, LA		Installation of Lifting Appliances at Inlet Works No. 1	135 days Fri 5/8/22	Sat 17/12/22	Fri 5/8/22	Sat 17/12/22	Wed 14/6/23	Thu 26/10/23	0 days 333,424	43455+30 day	4						10		1			
Column	42	7 =	4	1.9,4,1.1	1/F EOT Crane LA-01-01 SWL 5t	45 days Mon 19/9/22	Wed 2/11/22	Mon 19/9/22	Wed 2/11/22	Tue 12/9/23	Thu 26/10/23	358 days 430,431													
No.	428	8 🔫	4	1.9.4.1.2	1/F EOT Crane LA-01-02 SWL 5t	45 days Mon 19/9/22	Wed 2/11/22	Mon 19/9/22	Wed 2/11/22	Tue 12/9/23						1									
No.			Α.									1000				1					1				
1. 1. 1. 1. 1. 1. 1. 1.			4	-MOSSAGE																					
March Marc													427,428,429	1											
10 10 10 10 10 10 10 10							ACCESSORY OF THE							4		1					Į Į				
10 10 10 10 10 10 10 10													44455+14 day	1		1					>				
10 10 10 10 10 10 10 10				100000000000000000000000000000000000000		THAT IS NOT THE OWNER.	CONTRACTOR OF STREET						442	1 1							1				
10 10 10 10 10 10 10 10	_			430000				Sun 4/9/22	Wed 2/11/22	Mon 23/10/23	Thu 21/12/23	414 days 69		1							+				• 1
1	7 43	7 =1	let Works, Mech	1.9.4.2.3	Installation of screening conveyors	30 days Sun 18/12/22	Mon 16/1/23	Sun 18/12/22	Mon 16/1/23	Wed 1/11/23	Thu 30/11/23	0 days 426,70	441	1											
1	8 438	8 💌	let Works, Mech	1.9.4.2.4	Installation of inlet pumps	21 days Sun 18/12/22	Sat 7/1/23	Sun 18/12/22	Sat 7/1/23	Fri 27/10/23	Thu 16/11/23	0 days 426,4425S+14 days	,76 439	1 1							A H				
1	9 439	9 💌	let Works, Mech	1.9.4.2.5	Installation of grit removal system	14 days Sun 8/1/23	Sat 21/1/23	Sun 8/1/23	Sat 21/1/23	Fri 17/11/23	Thu 30/11/23	0 days 438,82	440	1 1							41 11				
1	0 440	0 =1	let Works, Mech	1.9.4.2.6	Installation of grit classifiers	21 days Sun 22/1/23	Sat 11/2/23	Sun 22/1/23	Sat 11/2/23																10
1			2007/00/00/00/00/00/00/	The second																	l J				60
1	-												43855+14 day	4								1			278
1						The state of the s				Proposition and the state of th			453								10				
Total			Linear Control of Control		NAME OF THE PROPERTY OF THE PR								449	-											
1										Tue 7/11/23		135 days	449,451	4 1		1									
1	7 44			ile Civentino	Installation of cable trays and cable containments	90 days Sun 18/9/22	Fri 16/12/22	Sun 18/9/22	Fri 16/12/22	Sun 25/6/23	Fri 22/9/23	0 days 4345S	448	1							4	A			
1	8 448	8 =	let Works, Elec, SCA	AD 1.9.4.3,4	Cables laying and terminations	90 days Sat 17/12/22	Thu 16/3/23	Sat 17/12/22	Thu 16/3/23	Sat 23/9/23	Thu 21/12/23	0 days 447,349	449,451									-			
1	19 445	9 💌	let Works, Elec	1.9,4.3,5	Energisation of LV Switchboards	0 days Thu 16/3/23	Thu 16/3/23	Thu 16/3/23	Thu 16/3/23	Fri 22/12/23	Fri 22/12/23	0 days 448,445,446	453				111				/ II	M 1	6/3		
1	0 450	0 =1	let Works, SCADA	1.9,4.4	SCADA Systems, Inlet Works	105 days Fri 17/3/23	Thu 29/6/23	Fri 17/3/23	Thu 29/6/23	Sun 31/12/23	Sat 13/4/24										/ II II				
Column C	1 45	1 =	let Works, SCADA	1.9.4.4.1									452								/ I II				
Column C	~												AEA	+							H = H	, /			
4 1 1 1 1 1 1 1 1 1														-							/ I II	/ 	T+		
4 6 1 1 1 1 1 1 1 1 1							97.193.592.001						100	-							+				
10 10 10 10 10 10 10 10													461												
40 10 10 10 10 10 10 10						2275140 (2111111111111111111111111111111111111		Sat 3/12/22	Manager and America	Mon 19/6/23	Fri 15/12/23	0 days	461												
9 de 9 de 10 de 1	3 23			1.9,4,7,3						Fri 18/8/23	Fri 15/12/23	60 days 666	667,461										H-H-H-H		
3 de 9 de	9 455	9 💌	S, Inlet Works, CCTV	1.9.4.7.4	CCTV Installation (5 Cameras)	90 days Sat 3/12/22	Thu 2/3/23	Sat 3/12/22	Thu 2/3/23	Sun 17/9/23	Fri 15/12/23	90 days 42455+60 days	745,461								-				
2 15 15 15 15 15 15 15	60 460	0 =	S, Inlet Works, FSI	1.9.4.7.5		120 days Sat 3/12/22	Sat 1/4/23	Sat 3/12/22	Sat 1/4/23	Fri 26/5/23	Fri 22/9/23			#											
2 4 4 5	3. 5.30		Printer Million			The state of the s		100000000000000000000000000000000000000	100 00000			100 miles (100 miles (60												
44 44 45 45 45 45 45 45	2 46												444 44744												
5 45; PLA, PST 1,9,7,1 Installation of Uniting Appliances at PST No., T-4 120 days Nov. 21/1/13 Nov. 20/1/13	46						The subsective	O missingations						4 1								1			
8 466 PLA, PST 1, 2,7,1,1 Basement EOT Carea LAG2-03 SWI, 15 30 days Two 23/1/23 Weed 22/1/23 Weed 22/1/23 SWI 13/1/23 SWI 13																						4			
1. 5.7. 467 PLA FST 1.9.7.1.2 Coping Level EOT Crame IA-Q-Q-Q-SWU-SS 30 days The 221/1/23 Fin 22			*****	1000000				H0000000000000000000000000000000000000					467,468	+											
18 66 Fig. Fig. 19,71,3 Coping Level EOT Crane LA-02-03 SVV. 51 30 days 5at 27/4/73	30																								
19.7.1.5 Coping Level EOT Crane LA-02-05 SWL, 5st 30 days 5st 22/4/23 Sun 21/5/23 Sun 21/							100000000000000000000000000000000000000				Tue 13/2/24	O days 466	469,470										-		
1 471	9 46	9 💌	A, PST	1.9.7.1.4	Coping Level EOT Crane LA-02-04 SWL 5t	30 days Sat 22/4/23	Sun 21/5/23	Sat 22/4/23	Sun 21/5/23	Fri 15/3/24	Sat 13/4/24	328 days 468													
2 472	0 470	0 =	A, PST	1.9.7.1.5	Coping Level EOT Crane LA-02-05 SWL 5t	30 days 5at 22/4/23	Sun 21/5/23	Sat 22/4/23	Sun 21/5/23	Wed 14/2/24	Thu 14/3/24	O days 468	471												
45 days Tue 21/2/23 Thu 6/4/23 Tue 21/2/23 Thu 6/4/23 Tue 21/2/23 Thu 6/4/23 Tue 21/2/23 Sat 19/8/23 Fri 22/9/23 Odays 22 479 4 474 ♥ PST, Mech 1.9.7.2.1 Installation of surface scum skimmers 30 days Tue 21/2/23 Sumany Project Summary Annual Progress Manual Progress Manual Progress Slack	1 47.	1 =	A, PST																						
14 474 €PST, Mech 1.9.7.2.2 Installation of pipework and valves 180 days. Tue 21/2/23 Sat 19/8/23 Tue 25/7/23 Sat 20/1/24 154 days 34 15 475 €PST, Mech 1.9.7.2.3 Installation of lamella plate settlers 100 days. Thu 23/3/23 Fri 30/6/23 Twe 21/2/23 Wed 22/3/23 Tue 21/2/23 Sat 19/8/23 Tue 21/2/23 Wed 22/3/23 Tue 21/2/23 Wed 22/3/23 Tue 21/2/23 Sat 19/8/23 Tue 21/2/23 Sat 20/1/24 174 days 475, 112 Taix Milestone ♦ Milestone ♦ Summary Froject Summary Manual Summary Citical Progress Manual Progress Slack	-			(wasses-		100000000000000000000000000000000000000																			
19.7.2.3 Installation of lamella plate settlers 100 days Thu 23/3/23 Fri 30/6/23 Wed 33/9/23 Thu 21/12/23 Odays 476,100 477,478 1.9.7.2.4 Installation of reciprocating type bottom scrapers 30 days True 21/2/23 Wed 22/3/23 True 21/9/23 Odays 106 475 1.9.7.2.5 Installation of surface scum skimmers 30 days Sat 1/7/23 Sun 30/7/23 Fri 22/12/23 Sun 30/7/23 Fri 22/12/23 Sat 20/1/24 174 days 475,112 Task Milestone Milestone Milestone Manual Forgress Manual Progress Manual Progress Manual Progress Manual Progress Manual Progress													479									1			
16 476 ■ PST, Mech 1.9.7.2.4 Installation of reciprocating type bottom scrapers 30 days Tue 21/2/23 Wed 22/3/23 Tue 12/9/23 Odays 106 475 1.9.7.2.5 Installation of surface scum skimmers 30 days Sut 1/7/23 Sun 30/7/23 Fri 22/12/23 Sun 30/7/23 Fri 22/12/23 Sun 30/7/23 Fri 22/12/23 Sun 30/7/23 Fri 22/12/23 Sun 30/7/24 174 days 475,112 Task Milestone ♦ Milestone • Summary Project Summary Manual Summary Critical Progress Manual Progress Slack	13.0					100 00 00 00 00 00 00 00 00 00 00 00 00	Seaton Policy in						477.478									 			
77 477 ■ PST, Mech 1.9.7.2.5 Installation of surface scum skimmers 30 days Sat 1/7/23 Sun 30/7/23 Sat 1/7/23 Sun 30/7/23 Fri 22/12/23 Sat 20/1/24 174 days 475,112 Task Milestone ◆ Milestone ● Summary Project Summary Manual Summary Critical Progress Manual Progress Slack														-								1 1 4 3			
Task Milestone ♦ Milestone ⑤ Summary Project Summary Critical Progress Manual Progress Slack		1					120000000000		0.000	Managagas.		100000000000000000000000000000000000000	- 175	-											
1837 Instance T makes Samuel	1 -		7				1						1	11 1				Щ	Li Li		4		11 11 11 11		
			Task		Milestone • Milestone	Summary	•	Project Su	mmary 1	Manual S	ummary	Critical	Progre		Mar	nual Progress	Slack •	77.							

Drainage Services Department							S	hek Wu Hui Efflue	Proposed Work Progra nt Polishing Plant - Main Works S		Works for Sewage Treatment Facilities
ID Ta Text1 W	/BS Task	k Name	Duration Start between Task	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors	s ·
6			Start and Finish								Haif 1, 2020
	9,7.2.6	Installation of scum collector pipes	30 days Sat 1/7/23	Sun 30/7/23	Sat 1/7/23	Sun 30/7/23	Fri 22/12/23	Sat 20/1/24	174 days 475,118	480	
	9.7.2.7	Installation of piston type primary sludge pumps Installation of drain pumps	30 days Fri 7/4/23 30 days Sun 7/5/23	Sat 6/5/23 Mon 5/6/23	Fri 7/4/23 Sun 7/5/23	Sat 6/5/23 Mon 5/6/23	Sat 23/9/23 Mon 23/10/23	Sun 22/10/23 Tue 21/11/23	0 days 124,473 0 days 130,479	481	
	9.7.2.9	Installation of air blowers	30 days Tue 6/6/23	Wed 5/7/23	Tue 6/6/23	Wed 5/7/23	Wed 22/11/23	Thu 21/12/23	O days 136,480	482	
	9.7.2.10	Installation of instrumentations	30 days Thu 6/7/23	Fri 4/8/23	Thu 6/7/23	Fri 4/8/23	Fri 22/12/23	Sat 20/1/24	169 days 28,481		
483 PST, Elec 1.	9.7.3	Electrical Installations for PST No. 1"4	210 days Tue 21/2/23	Mon 18/9/23	Tue 21/2/23	Mon 18/9/23	Sun 4/6/23	Sat 20/1/24	0 days 463	491	
	9.7.3.1	Installation of LV Switchboards	60 days Tue 21/2/23		Tue 21/2/23	Fri 21/4/23	Tue 4/7/23	Fri 1/9/23	30 days	486	
	9.7.3.2	Installation of cable trays and cable containments	90 days Tue 21/2/23 120 days Mon 22/5/2		Tue 21/2/23 Mon 22/5/23	Sun 21/5/23 Mon 18/9/23	Sun 4/6/23 Sat 2/9/23	Fri 1/9/23 Sat 30/12/23	0 days 0 days 484,485,349	487FS-30 day	5107.4
	9.7.3.4	Cables laying and terminations Energisation of LV Switchboards	1 day Sun 20/8/23		Sun 20/8/23	Sun 20/8/23	Sat 20/1/24	Sat 20/1/24	153 days 486FS-30 days	10000000	<u>√~ 20/8</u>
The product of the pr	9.7.4	SCADA Systems, PST No. 1"4	105 days Tue 19/9/23		Tue 19/9/23	Mon 1/1/24	Sun 31/12/23	Sat 13/4/24	103 days	-	
9 489 PST,SCADA 1.	9.7.4.1	Configuration of PLC System	60 days Tue 19/9/23	Fri 17/11/23	Tue 19/9/23	Fri 17/11/23	Sun 31/12/23	Wed 28/2/24	0 days 486	490	
	9.7.4.2	Site Acceptance Test for PLC System at PST No. 1~4	45 days Sat 18/11/2		Sat 18/11/23	Mon 1/1/24	Thu 29/2/24	Sat 13/4/24	103 days 489		
	9.7.5	Site Acceptance Test for E&M Equip at PST No. 1~4	60 edays Mon 18/9/2	1 2000000000000000000000000000000000000	Mon 18/9/23	Fri 17/11/23	Sun 21/1/24	Thu 21/3/24	0.63 edays 472,483 118 days 491	492	
	9.7.6	System Commissioning for E&M Equip at PST No. 1-4 Building Services Installations for for PST No. 1-4	30 days Sat 18/11/2 240 days Mon 22/5/2		Sat 18/11/23 Mon 22/5/23	Sun 17/12/23 Tue 16/1/24	Thu 21/3/24 Fri 26/5/23	Fri 19/4/24 Sat 13/4/24	4 days 463FS+90 days	740	
	9.7.7.1	Mechanical Ventilation System	90 days Mon 22/5/2		Mon 22/5/23	Sat 19/8/23	Sun 17/9/23	Fri 15/12/23	30 days	499	
	9.7.7.2	Lighting and Power Distribution System	90 days Mon 22/5/2	3 Sat 19/8/23	Mon 22/5/23	Sat 19/8/23	Sun 17/9/23	Fri 15/12/23	30 days	499	
496 85, PST, P&D 1:	9.7.7.3	Plumbing and Drainage Installation	120 days Mon 22/5/2		Mon 22/5/23	Mon 18/9/23	Fri 18/8/23	Fri 15/12/23	O days 666	667,499	
	9.7.7.4	CCTV Installation (9 Cameras)	60 days Mon 22/5/2		Mon 22/5/23	Thu 20/7/23	Tue 17/10/23	Fri 15/12/23	60 days 463FS+60 days	745,499	
	9.7.7.5	Fire Services Installation Testing and Commissioning of Building Services Installations	120 days Mon 22/5/2 120 days Tue 19/9/23	2 Described Section	Mon 22/5/23 Tue 19/9/23	Mon 18/9/23 Tue 16/1/24	Fri 26/5/23 Sat 16/12/23	Fri 22/9/23 Sat 13/4/24	0 days 88 days 494,495,496,497,498	650,662,663,	
	9.7.7.6	Access Date for Portion B-4, BR 2A & 2B	90 edays Fri 25/11/22	NAME OF THE PERSON OF	Fri 25/11/22	Thu 23/2/23	Fri 25/11/22	Thu 23/2/23	0 edays 255+1089 edays	1	
The state of the s	9.9	Tentative Civil Handover Date, Portion B-4, BR2A & 28	1 day Sun 1/1/23	Sun 1/1/23	Sun 1/1/23	Sun 1/1/23	Tue 10/1/23	Tue 10/1/23	O days	503,508,517,	17,524
2 502 RR 1.	9.10	Commencement of E&M Installation at Bioreactor No. 2A & 2B	1042 days Fri 4/6/21	Wed 10/4/24	Fri 4/6/21	Wed 10/4/24	Thu 31/3/22	Fri 19/4/24	O days	669	
	9.10.1	Installation of Lifting Appliances	60 days Mon 2/1/23		Mon 2/1/23	Thu 2/3/23	Wed 14/2/24	Sat 13/4/24	408 days 333,501		
	9.10.1.1	Coping Level EOT Crane LA-03-01 SWL 5t	30 days Mon 2/1/23		Mon 2/1/23 Mon 2/1/23	Tue 31/1/23 Tue 31/1/23	Wed 14/2/24 Wed 14/2/24	Thu 14/3/24 Thu 14/3/24	O days	506,507	
	9.10.1.5	Coping Level EOT Crane LA-03-02 SWL 5t Coping Level EOT Crane LA-03-03 SWL 5t	30 days Mon 2/1/23 30 days Wed 1/2/23		Wed 1/2/23	Thu 2/3/23	Fri 15/3/24	Sat 13/4/24	408 days 504,505	300,307	
	9.10.1.4	Coping Level Mobile A-frame LA-03-04 SWL 4t	7 days Wed 1/2/23		Wed 1/2/23	Tue 7/2/23	Sun 7/4/24	Sat 13/4/24	431 days 504,505		
3 508 RR, Mech 1.	9.10.2	Mechanical Installations for E&M Equip at BR 2A & 2B	180 days Mon 2/1/23	Fri 30/6/23	Mon 2/1/23	Fri 30/6/23	Mon 27/3/23	Fri 22/9/23	60 days 501	521	
509 RR, Mech 1.	9,10.2.1	Installation of pipework and valves	150 days Mon 2/1/23	Wed 31/5/23	Mon 2/1/23	Wed 31/5/23	Mon 27/3/23	Wed 23/8/23	O days 45,39	516	
	9.10.2.7	Installation of pre-treatment fine screens	21 days Mon 2/1/23		Mon 2/1/23	Sun 22/1/23	Thu 3/8/23	Wed 23/8/23	0 days 165	512 515	
	9.10.2.2	Installation of air diffusion system Installation of submersible mixers	90 days Mon 2/1/23 30 days Mon 23/1/2		Mon 2/1/23 Mon 23/1/23	Sat 1/4/23 Tue 21/2/23	Fri 26/5/23 Thu 24/8/23	Wed 23/8/23 Fri 22/9/23	0 days 171 213 days 510,177	313	
	9.10.2.5	Installation of mixed liquor return pumps	30 days Mon 2/1/23		Mon 2/1/23	Tue 31/1/23	Tue 25/7/23	Wed 23/8/23	0 days 183	514	
	9.10.2.6	Installation of scum removal systems	30 days Wed 1/2/23	Thu 2/3/23	Wed 1/2/23	Thu 2/3/23	Thu 24/8/23	Fri 22/9/23	204 days 513,189		
5 515 SR, Mech 1.	9.10.2.7	Installation of aeration blowers	30 days Sun 2/4/23	Mon 1/5/23	Sun 2/4/23	Mon 1/5/23	Thu 24/8/23	Fri 22/9/23	144 days 511,195		
	9.10,2,8	Installation of instrumentations	30 days Thu 1/6/23		Thu 1/6/23	Fri 30/6/23	Thu 24/8/23	Fri 22/9/23	84 days 509,201	521	
	9.10.3	Electrical Installations for E&M Equip at BR 2A & 2B Installation of cable trays and cable containments	240 days Mon 2/1/23 120 days Mon 2/1/23		Mon 2/1/23 Mon 2/1/23	Tue 29/8/23 Mon 1/5/23	Wed 11/1/23 Wed 11/1/23	Fri 22/9/23 Wed 10/5/23	0 days 501 0 days 501	519	
	9.10.3.7	Cables laying and terminations	120 days Tue 2/5/23	0.0000000000000000000000000000000000000	Tue 2/5/23	Tue 29/8/23	Thu 11/5/23	Thu 7/9/23	O days 518,349	580	
	9.10.3.5	Energisation of LV Switchboards	1 day 5at 1/7/23	Sat 1/7/23	Sat 1/7/23	Sat 1/7/23	Fri 22/9/23	Fri 22/9/23	83 days		
1 521 R, SCADA 1.	9.10.4	Site Acceptance Test for E&M Equip at BR 2A & 2B	90 edays Tue 29/8/23	Mon 27/11/2	Tue 29/8/23	Mon 27/11/23	Sat 23/9/23	Fri 22/12/23	15.63 edays 508,517	522	
	9.10.5	System Commissioning for E&M Equip at BR 2A & 2B	120 days Wed 15/12/		PARTITION OF THE PARTY OF THE P	Wed 10/4/24	Fri 22/12/23	Fri 19/4/24	3 days 521,582	746	
	9.10.6	Building Services Installations for BR 2A & 2B	300 days Sun 2/4/23 90 days Sun 2/4/23		Sun 2/4/23 Sun 2/4/23	Fri 26/1/24 Fri 30/6/23	Fri 26/5/23 Sun 17/9/23	Sat 13/4/24 Fri 15/12/23	54 days 501F5+90 edays 90 days	529	
	9.10.6.1	Mechanical Ventilation System Lighting and Power Distribution System	180 days Sun 2/4/23	202000000000000000000000000000000000000	Sun 2/4/23	Thu 28/9/23	Mon 19/6/23	Fri 15/12/23	0 days	529	
	9.10.6.5	Plumbing and Drainage Installation	120 days Sun 2/4/23		Sun 2/4/23	Sun 30/7/23	Fri 18/8/23	Fri 15/12/23	50 days 666	667,529	
	.9.10.6.4	CCTV Installation (7 Cameras)	60 days Tue 2/5/23	Fri 30/6/23	Tue 2/5/23	Fri 30/6/23	Tue 17/10/23	Fri 15/12/23	90 days 501FS+120 days	745,529	
	.9.10.6.5	Fire Services Installation	120 days Sun 2/4/23		Sun 2/4/23	Sun 30/7/23	Fri 26/5/23	Fri 22/9/23	50 days	650,662,663	53,524
	.9.10.6.€	Testing and Commissioning of Building Services Installations	120 days Fri 29/9/23		Fri 29/9/23	Fri 26/1/24 Mon 27/11/23	Sat 16/12/23	Sat 13/4/24 Thu 18/4/24	78 days 524,525,526,527,528	•	
	.9.10.7	PV System Submission of Application to CLP	907 days Fri 4/6/21 90 days Fri 4/6/21	Mon 27/11/2 Wed 1/9/21	Fri 4/6/21	Mon 27/11/23 Wed 1/9/21	Thu 31/3/22 Thu 31/3/22	Tue 28/6/22	0 days 404,408,314	532	
	9.10.7.7	CLP's approval	120 days Thu 2/9/21	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Thu 30/12/21	Wed 29/6/22	Wed 26/10/22	0 days 531	533	
	.9.10.7.5	Material ordering and delivery to site	210 days Fri 31/12/2		Fri 31/12/21	Thu 28/7/22	Thu 27/10/22	Wed 24/5/23	157 days 532	534	
	9.10.7.4	Site Installation	180 days Mon 2/1/23		Mon 2/1/23	Fri 30/6/23	Thu 25/5/23	Mon 20/11/23	0 days 533,501	535	
	9.10.7.5	CLP's meter installation and Final on-grid test with CLP	150 days Sat 1/7/23	A STATE OF THE PARTY OF THE PAR	N. BOSTON AND AND	Mon 27/11/23	Tue 21/11/23	Thu 18/4/24	143 days 534	422	
The state of the s	9.11	Access Date for Portion B-SA, MFB No. 2 below 1st floor level Tentative CNII Handover Date, Portion B-SA, MFB No. 2 below 1st	90 edays Mon 20/12,			Sun 20/3/22 Wed 26/1/22	Mon 20/12/21 Tue 8/2/22	Sun 20/3/22 Tue 8/2/22	0 edays 255+749 edays 0 days	539,544FS+	6, 26/3
	.9.12	floorlevel								edays	
	.9.13	Commencement of E&M Installation at MFB No. 2 Lower Part				Fri 10/3/23	Sat 26/3/22	Sat 13/4/24	58 days	669	
	.9.13.1.1	Installation of Lifting Appliances 82 EOT Crane LA-04-01 SWL St	59 days Thu 27/1/2 45 days Thu 27/1/2		Thu 27/1/22 Thu 27/1/22	Sat 26/3/22 Sat 12/3/22	Thu 15/2/24 Thu 15/2/24	Sat 13/4/24 Sat 30/3/24	749 days 333,537 0 days	542,543	
	.9.13.1.1	B2 EOT Crane LA-04-02 SWL 5t	30 days Thu 27/1/2		Thu 27/1/22	Fri 25/2/22	Fri 1/3/24	Sat 30/3/24	15 days	542,543	
	.9.13.1.1	B2 MR LA-04-03 SWL 5t	14 days Sun 13/3/2		Sun 13/3/22	Sat 26/3/22	Sun 31/3/24	Sat 13/4/24	749 days 540,541		
13 543 MFS, LA 1.	.9.13.1.4	B1 MR LA-04-04 SWL 3t	14 days Sun 13/3/2	Sat 26/3/22	Sun 13/3/22	Sat 26/3/22	Sun 31/3/24	Sat 13/4/24	749 days 540,541		
	.9.13.2	Mechanical Installations for E&M Equip. at MFB No. 2 Lower Part			Wed 16/3/22	Fri 10/3/23	Sat 26/3/22	Mon 20/3/23	0 days 537FS+45 edays	55455	
250 2000 2 2 2000 200	.9.13.2.1	Installation of hollow fibre membrane modules	90 days Wed 16/3/2			Mon 13/6/22	Sun 11/12/22 Sat 26/3/22	Fri 10/3/23 Thu 23/6/22	270 days 207 0 days 213	550,547,54	548
46 546 MFS, Mech 1.	.9.13.2.7	Installation of air scour blowers	90 days Wed 16/3/2	Mon 13/6/22	Wed 16/3/22	Mon 13/6/22	Sat 20/3/22	Ind 23/6/22	0 0 0 2 1 3	330,347,341	
Task	10000	Milestone • Milestone	Summary		Project St	mmary	1 Manual S	ummary 1	Critical	Progr	ogress Manual Progress Slack
ect: DE/2018/04											
Fri 21/2/20											

Draine De Geverne	ge Services Depart	rathe Region						S	Shek Wu Hui Effluer	nt Polishing Plant	t - Main Works S	mme for DE/2 Stage 1 E&M W
ID	Ta Text1	WBS	Fask Name	Duration Start between Task	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Pr	THE RESERVE OF THE PARTY OF THE	Successors
	0			Start and Finish								
547	- 1000000000000000000000000000000000000	1.9.13.2.5	Installation of permeate pumps	90 days Tue 14/6/22	* (***)	Tue 14/6/22	Sun 11/9/22	Fri 24/6/22	Wed 21/9/22	0 days 2		550
548	MFS, Mech	1.9.13.2.4	Installation of return activated sludge pumps	90 days Tue 14/6/22		Tue 14/6/22	Sun 11/9/22	Fri 24/6/22	Wed 21/9/22	0 days 24		550 550
549	MFS, Mech	1.9.13.2.5	Installation of membrane tank drain pumps Installation of pipework and valves	120 days Wed 16/3/22 180 days Mon 12/9/22		Wed 16/3/22 Mon 12/9/22	Wed 13/7/22 Fri 10/3/23	Wed 25/5/22 Thu 22/9/22	Wed 21/9/22 Mon 20/3/23		4,546,547,548,549	500
551	MFS, Mech	1.9.13.2.7	Installation of chemical storage tank	30 days Wed 16/3/22		Wed 16/3/22	Thu 14/4/22	Thu 9/2/23	Fri 10/3/23	330 days 23		
552	MFS, Mech	1.9.13.2.8	Installation of chemical dosing pumps	30 days Wed 16/3/22	Thu 14/4/22	Wed 16/3/22	Thu 14/4/22	Thu 9/2/23	Fri 10/3/23	330 days 24	43	
553	MFS, Mech	1.9.13.2.9	Installation of plant service water system	45 days Wed 16/3/22	Fri 29/4/22	Wed 16/3/22	Fri 29/4/22	Wed 25/1/23	Fri 10/3/23	315 days 26	61,267	
554	MFS, Elec	1.9.13.3	Electrical Installations for E&M Equip. at MF8 No. 2 Lower Part	150 days Wed 16/3/22	Fri 12/8/22	Wed 16/3/22	Fri 12/8/22	Thu 16/11/23	Sat 13/4/24	610 days 54	4455	
555	MFS, Elec	1.9.13.3.1	Installation of cable trays and cable containments	150 days Wed 16/3/22	Fri 12/8/22	Wed 16/3/22	Fri 12/8/22	Thu 16/11/23	Sat 13/4/24	610 days		
	MFS, LA, BS	1.9.14	Access Date for Portion B-SB, MFB No. 2 remaining portion	90 edays Thu 19/5/22		Thu 19/5/22	Wed 17/8/22	Thu 19/5/22	Wed 17/8/22		SS+899 edays	
557	MFS, LA, BS	1.9.15	Tentative Civil Handover Date, Portion 8-58, MFB No. 2 remaining portion	1 day Sat 25/6/22	Sat 25/6/22	Sat 25/6/22	Sat 25/6/22	Tue 20/12/22	Tue 20/12/22	O days		559,567FS+45 edays,586FS+
558	MFS	1.9.16	Commencement of E&M Installation at MFB No. 2 Upper Part	648 days Sun 26/6/22	Wed 3/4/24	Sun 26/6/22	Wed 3/4/24	Tue 21/3/23	Fri 19/4/24	7 days		669
559	MFS, LA	1.9.16.1	Installation of Lifting Appliances	135 days Sun 26/6/22		Sun 26/6/22	Mon 7/11/22	Fri 1/12/23	Sat 13/4/24	523 days 3	33,557	
560		1.9.16.1.1	GF EOT Crane LA-04-05 SWL St	45 days Sun 26/6/22		Sun 26/6/22	Tue 9/8/22	Fri 1/12/23	Sun 14/1/24	O days		562,563
561	MFS, LA	1.9.16.1.3	GF Gantry Crane LA-04-06 SWL 6t 1F EOT Crane LA-04-07 SWL 15t	45 days Sun 26/6/22 45 days Wed 10/8/22		Sun 26/6/22 Wed 10/8/22	Tue 9/8/22 Fri 23/9/22	Fri 1/12/23 Man 15/1/24	Sun 14/1/24 Wed 28/2/24	O days 50	60.561	562,563 564,565,566
562 563	MFS, LA	1.9.16.1.4	1F EOT Crane LA-04-07 SWL 15t 1F EOT Crane LA-04-08 SWL 15t	45 days Wed 10/8/22 45 days Wed 10/8/22		Wed 10/8/22 Wed 10/8/22	Fri 23/9/22	Mon 15/1/24 Mon 15/1/24	Wed 28/2/24 Wed 28/2/24	O days St		564,565,566
564	MFS, LA	1.9.16.1.5	RF EOT Crane LA-04-09 SWL 2t	45 days Sat 24/9/22	A CONTROL OF	Sat 24/9/22	Mon 7/11/22	Thu 29/2/24	Sat 13/4/24	523 days 56	3460	
565	MFS, LA	1.9.16.1.6	RF Retractable MR LA-04-10 SWL 2t		Mon 7/11/22	Sat 24/9/22	Mon 7/11/22	Thu 29/2/24	Sat 13/4/24	523 days 50		
566	MFS, LA	1.9.16.1.7	Mobile A-frame LA-04-11 SWL 2t	7 days Sat 24/9/22	Fri 30/9/22	Sat 24/9/22	Fri 30/9/22	Sun 7/4/24	Sat 13/4/24	561 days 5	62,563	
567	MFS, Mech	1.9.16.2	Mechanical Installations for E&M Equip. at MFB No. 2 Upper Part	240 days Wed 10/8/22	Thu 6/4/23	Wed 10/8/22	Thu 6/4/23	Sat 1/4/23	Sun 26/11/23		57FS+45 edays	5715S+45 eda
568	MFS, Mech	1.9.16.2.1	Installation of air scour blowers	120 days Wed 10/8/22		Wed 10/8/22	Wed 7/12/22	Sat 1/4/23	Sat 29/7/23	0 days 2		569
569	MFS, Mech	1.9.16.2.2	Installation of compressed air system	60 days Thu 8/12/22		Thu 8/12/22	Sun 5/2/23	Sun 30/7/23	Wed 27/9/23	0 days 2:		570
570	MFS, Mech	1.9.16.2.1	Installation of instrumentations Electrical installations for E&M Equip. at MFB No. 2 Upper Part	60 days Mon 6/2/23 240 days Sat 11/3/23	Thu 6/4/23 Sun 5/11/23	Mon 6/2/23 Sat 11/3/23	Thu 6/4/23 Sun 5/11/23	Thu 28/9/23 Tue 21/3/23	Sun 26/11/23 Sun 26/11/23	234 days 50	69,231 6755+45 edays,550	584
	MFS, Elec	1.9.16.3.1	Installation of LV Switchboards		Thu 8/6/23	Sat 11/3/23	Thu 8/6/23	Tue 21/3/23	Sun 18/6/23	0 days 5		577
572	MFS, Elec, SCAD	0.000	Installation of PLC Panels	90 days Sat 11/3/23	Thu 8/6/23	Sat 11/3/23	Thu 8/6/23	Tue 21/3/23	Sun 18/6/23	O days 5		577,580
574	MFS, Elec	1.9.16.3.	Installation of HV Switchboards		Tue 9/5/23	Sat 11/3/23	Tue 9/5/23	Thu 20/4/23	Sun 18/6/23	30 days 4	6,51	577
575	MFS, Elec	1.9.16.3.4	Installation of transformer	45 days Sat 11/3/23	Mon 24/4/23	Sat 11/3/23	Mon 24/4/23	Fri 13/10/23	Sun 26/11/23	216 days 6	3	
576	MFS, Elec	1.9.16.3.5	Installation of cable trays and cable containments	180 days 5at 11/3/23	Wed 6/9/23	Sat 11/3/23	Wed 6/9/23	Wed 31/5/23	Sun 26/11/23	81 days		
577			Cables laying and terminations	150 days Fri 9/6/23	Sun 5/11/23	Frl 9/6/23	Sun 5/11/23	Mon 19/6/23	Wed 15/11/23		49,572,574,573	581
	MF5, Elec	1.9.16.3.7	Energisation of LV Switchboards	1 day Wed 30/8/23	0.000.000.000.000.000	Wed 30/8/23	Wed 30/8/23	Sun 26/11/23	Sun 26/11/23	88 days		
579 580	MFS, SCADA	1.9.16.4	SCADA Systems, BR No. 1 & No 2, MFB No. 2 Configuration of PLC System for BR No. 1 & No. 2	218 days Wed 30/8/23 45 days Wed 30/8/23		Wed 30/8/23 Wed 30/8/23	Wed 3/4/24 Fri 13/10/23	Fri 8/9/23 Fri 8/9/23	Sat 13/4/24 Sun 22/10/23	9 days 0 days 5	19 573	582
581	MFS, SCADA	1.9.16.4.2	Configuration of PLC System for MFS	60 days Mon 6/11/23		Mon 6/11/23	Thu 4/1/24	Thu 16/11/23	Sun 14/1/24	O days 5		583
582	MFS, SCADA	1,9,16,4,5	Site Acceptance Test for PLC System at BR No. 1 and No. 2	60 days Sat 14/10/23	Tue 12/12/23	Sat 14/10/23	Tue 12/12/23	Mon 23/10/23	Thu 21/12/23	O days 5		522,585
583	MFS, SCADA	1.9.16.4.4	Site Acceptance Test for PLC System at MFS	90 days Fri 5/1/24	Wed 3/4/24	Fri 5/1/24	Wed 3/4/24	Mon 15/1/24	Sat 13/4/24	10 days 5	81	
584	MFS,SCADA	1.9.16.5	Site Acceptance Test for E&M Equip at MFB No. 2	45 edays Sun 5/11/23	Wed 20/12/23	Sun 5/11/23	Wed 20/12/23	Mon 27/11/23	Thu 11/1/24	0.63 edays S	67,571	585
585	MFS,SCADA	1.9.16.6	System Commissioning for E&M Equip at MFB No. 2	100 days Thu 21/12/23	Fri 29/3/24	Thu 21/12/23	Fri 29/3/24	Thu 11/1/24	Fri 19/4/24	15 days 5	84,582	746
586	MFS	1.9.16.7	Building Services Installations for MFB No. 2	330 days Wed 23/11/22			Wed 18/10/23	Sat 20/5/23	Sat 13/4/24		57FS+150 edays	
587 588		1.9.16.7.1	Mechanical Ventilation System Lighting and Power Distribution System	120 days Wed 23/11/22 210 days Wed 23/11/22		Wed 23/11/22 Wed 23/11/22	Wed 22/3/23 Tue 20/6/23	Fri 18/8/23 Sat 20/5/23	Fri 15/12/23 Fri 15/12/23	90 days 0 days		592 592
589		1.9.16.7.1	Plumbing and Drainage Installation	180 days Wed 23/11/22		Wed 23/11/22	Sun 21/5/23	Mon 19/6/23	Fri 15/12/23	30 days 6	66	667,592
590		1.9.16.7.4	CCTV Installation (10 Cameras)	90 days Wed 23/11/22	Mon 20/2/23		Mon 20/2/23	Sun 17/9/23	Fri 15/12/23	120 days 5	57FS+120 days	745,592
591	BS, MFS, FSI	1.9.16.7.5	Fire Services Installation	120 days Wed 23/11/22	Wed 22/3/23	Wed 23/11/22	Wed 22/3/23	Fri 26/5/23	Fri 22/9/23	90 days		650,662,663,
592	■ BS, MFS	1.9.16.7.6	Testing and Commissioning of Building Services Installations	120 days Wed 21/6/23	Wed 18/10/23	Wed 21/6/23	Wed 18/10/23	Sat 16/12/23	Sat 13/4/24	178 days 5	87,588,589,590,591	ı
593	Chem	1.9.17	Access Date for Portion B-7 & 7B, Chemical Dosing, Concrete Plinth for DOs, Chemical Sys 1 & 2, FS & sprinkler pump room, Genset, FS	150 edays Mon 20/12/21	Thu 19/5/22	Mon 20/12/21	Thu 19/5/22	Tue 18/10/22	Fri 17/3/23	0 edays 2	SS+749 edays	edays,615FS+
			hydrant and booster pump room, flowmeter chambers									days,620FS+4
594	Temp Chemical	1.9.18	Tentative Civil Handover Date, Portion B-7 & B-7B, temporary chemical dosing system, concrete plinth for deodorisation system	1 day Wed 26/1/22	Wed 26/1/22	Wed 26/1/22	Wed 26/1/22	Mon 16/10/23	Mon 16/10/23	48 days		596
595	Temp Chemical	1.9.19	Commencement of E&M Installation at Temporary Chemial Dosing System	334 days Tue 15/3/22	Sun 12/2/23	Tue 15/3/22	Sun 12/2/23	Tue 25/7/23	Sun 14/4/24	423 days 1	47,153,159	669
596	Temp Chemical	Mech 1.9.19.1	Mechanical Installations for E&M Equip, for Chemical Dosing Syster	90 edays Tue 15/3/22	Mon 13/6/22	Tue 15/3/22	Mon 13/6/22	Tue 17/10/23	Mon 15/1/24	0 edays 5	94	5975S+30 ed
597			Electrical installations for E&M Equip. for Chemical Dosing System	90 edays Thu 14/4/22			Wed 13/7/22	Thu 16/11/23	Wed 14/2/24		9655+30 edays	598
598	Temp Chemical	1.9.19.3	Site Acceptance Test for E&M Equip for Chemical Dosing System	30 edays Wed 13/7/22	Fri 12/8/22	Wed 13/7/22	Fri 12/8/22	Wed 14/2/24	Fri 15/3/24	0 edays 5	96,597	599
599	Temp Chemical	1.9.19.4	System Commissioning for E&M Equip for Chemical Dosing System	30 edays Fri 12/8/22	Sun 11/9/22	Fri 12/8/22	Sun 11/9/22	Fri 15/3/24	Sun 14/4/24	580.63 edays 5		
600	Temp Chemical		Building Services Installations at Chemical Dosing System areas	180 days Wed 17/8/22		Wed 17/8/22	Sun 12/2/23	Tue 25/7/23	Sat 13/4/24		93FS+90 edays	
601	2000			90 days Wed 17/8/22	property egone res		Mon 14/11/22	Tue 17/10/23	Sun 14/1/24	0 days		663 663 603
602	Temp Chemical		Fire Services Installation, DG Stores Testing and Commissioning of Building Services Installations	90 days Wed 17/8/22 90 days Tue 15/11/22		Wed 17/8/22 Tue 15/11/22	Mon 14/11/22 Sun 12/2/23	Tue 25/7/23 Mon 15/1/24	Sun 22/10/23 Sat 13/4/24	0 days 426 days 6	601.602	662,663,603
604	Temp Chemical	1.9.20	Testing and Commissioning of Building Services Installations Tentative Civil Handover Date, Portion chemical dosing system 1 and	1 day Sat 27/3/21	1	5at 27/3/21	Sat 27/3/21	Mon 26/12/22	Mon 26/12/22	353 days		606
			system 2									
605	Chemical	1.9.21	Commencement of E&M Installation at Chemical Dosing System 1 and System 2	420 days Tue 15/3/22	Tue 9/5/23	Tue 15/3/22	Tue 9/5/23	Tue 27/12/22	Sat 13/4/24	286 days 1	159,153,147	669
606	Chemical, Mech	1.9.21.1	Mechanical installations for E&M Equip, for Chemical Dosing System	90 edays Tue 15/3/22	Mon 13/6/22	Tue 15/3/22	Mon 13/6/22	Tue 27/12/22	Mon 27/3/23	O edays 6	504	607
607	Chemical, Elec	1.9.21.2	Electrical Installations for E&M Equip. for Chemical Dosing System	90 edays Mon 13/6/22		Mon 13/6/22	Sun 11/9/22	Mon 27/3/23	Sun 25/6/23	0.63 edays 6		608,611,612
608	Chemical, Elec		Site Acceptance Test for E&M Equip for Chemical Dosing System	45 days Mon 12/9/22			Wed 26/10/22	Mon 15/1/24	Wed 28/2/24	0 days 6		609
609		1.9.21.4	System Commissioning for E&M Equip for Chemical Dosing System Building Services Installations at Chemical Dosing System areas				Sat 10/12/22 Tue 9/5/23	Thu 29/2/24 Sun 25/6/23	Sat 13/4/24 Sat 13/4/24	490 days 6	508 593FS+100 days	
610	Chemical Chemical, BS	1.9.21.5	Building Services Installations at Chemical Dosing System areas Lighting and Power Distribution System	240 days Mon 12/9/22 120 days Mon 12/9/22		Mon 12/9/22 Mon 12/9/22	Tue 9/5/23 Mon 9/1/23	Sun 25/6/23 Fri 18/8/23	5at 13/4/24 Fri 15/12/23	286 days 5		613
612		1.9.21.5.3	Fire Services Installation, DG Stores	120 days Mon 12/9/22		Mon 12/9/22	Mon 9/1/23	Sun 25/6/23	Sun 22/10/23	O days 6		662,663,653,
1-1					1	1				1 1		
-	Task		Milestone • Milestone •	Summary		Project Su	nmary [1 Manual Su	ummary	Critical		Progre
twise												

Drainage Services I	Department							S	hek Wu Hui Effluer			amme for DE/20 Stage 1 E&M W	ne for DE/2018/04 pe 1 E&M Works for Sewage Treatment Facilities
ID Ta Text1	WBS T	ask Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish		Predecessors	Successors	
Mc			between Task Start and Finish				1000						Half 1, 2020
613 Chemica	l, BS 1.9.21.5.5	Testing and Commissioning of Building Services Installations	120 days	Tue 10/1/23	Tue 9/5/23	Tue 10/1/23	Tue 9/5/23	Sat 16/12/23	Sat 13/4/24	340 days	s 611,612		DIJIFIMA MIJIJAS O INIDIJI I MIAIM JIJAS S O
614 CDOU	1.9.22	Commencement of E&M Installation at DOU 1	171 days	Sat 2/7/22	Tue 20/12/22	Sat 2/7/22	Tue 20/12/22	Thu 26/10/23	Sun 14/4/24	477 days	s 273	669	169
615 COU, Me		Mechanical Installations for DOU 1			Fri 30/9/22	Sat 2/7/22	Fri 30/9/22	Thu 26/10/23	Wed 24/1/24		s 593FS+45 days,285	- 15	
616 DOU, Ele	1.9.22.2 1.9.22.3	Electrical Installations for DOU 1 Site Acceptance Test for DOU1			Sun 30/10/22	Mon 1/8/22 Sun 30/10/22	Sun 30/10/22 Tue 29/11/22	Sat 25/11/23 Fri 23/2/24	Fri 23/2/24 Sun 24/3/24	Caracas	s 61555+30 edays s 615,616	618	
617 = DOU	1.9.22.4	System Commissioning for DOU 1		100000000000000000000000000000000000000	Tue 29/11/22 Tue 20/12/22	Salas Barbar	Tue 20/12/22	Sun 24/3/24	Sun 14/4/24	480.63 edays		0.00	
619 DOU	1.9.23	Commencement of E&M Installation at DOU 2A			Tue 20/12/22		Tue 20/12/22	Thu 26/10/23	Sun 14/4/24	477 days		669	569
620 COU, Me	ech 1.9.23.1	Mechanical Installations for DOU 2A	90 edays	Sat 2/7/22	Fri 30/9/22	Sat 2/7/22	Fri 30/9/22	Thu 26/10/23	Wed 24/1/24	0 edays	s 593FS+45 days,285	62155+30 eday	;2155+30 edays
621 COU, Ele	1.9.23.2	Electrical Installations for DOU 2A	90 edays	Mon 1/8/22	Sun 30/10/22	Mon 1/8/22	Sun 30/10/22	Sat 25/11/23	Fri 23/2/24		s 6205S+30 edays	622	
622 DOU	1.9.23.3	Site Acceptance Test for E&M Equip for DOU 2A			Tue 29/11/22	Sun 30/10/22	Tue 29/11/22	Fri 23/2/24	Sun 24/3/24		s 620,621	623	23
623 CDOU	1.9.23.4	System Commissioning Test for DOU 2A Commencement of E&M Installation at DOU 3A		Tue 29/11/22		Tue 29/11/22 Tue 16/8/22	Tue 20/12/22 Fri 3/2/23	Sun 24/3/24 Thu 26/10/23	Sun 14/4/24 Sun 14/4/24	480.63 edays		669	669
625 COU, Me		Mechanical Installations for DOU 3A	- PARTITION CO.		Mon 14/11/22		Mon 14/11/22	Thu 26/10/23	Wed 24/1/24	1000000	s 593FS+90 days,285	62655+30 eday	
626 COU, Ele	1.9.24.2	Electrical Installations for DOU 3A	90 edays	Thu 15/9/22	Wed 14/12/22	Thu 15/9/22	Wed 14/12/22	Sat 25/11/23	Fri 23/2/24	O edays	s 6255S+30 edays	627	27
627 DOU	1.9.24.3	Site Acceptance Test for E&M Equip for DOU 3A	30 edays	Wed 14/12/22	Fri 13/1/23	Wed 14/12/22	Fri 13/1/23	Fri 23/2/24	Sun 24/3/24	O edays	s 625,626	628	28
628 COU	1.9.24.4	System Commissioning Test for DOU 3A		and the state of t	Fri 3/2/23	Fri 13/1/23	Fri 3/2/23	Sun 24/3/24	Sun 14/4/24	435.63 edays	370		
629 DOU, Me	1.9.25 ech 1.9.25.1	Commencement of E&M Installation at DOU 3B Mechanical Installations for DOU 3B		Tue 16/8/22	Fri 3/2/23 Mon 14/11/22	Tue 16/8/22	Fri 3/2/23 Mon 14/11/22	Thu 26/10/23 Thu 26/10/23	Sun 14/4/24 Wed 24/1/24	432 days	s 279 s 593FS+90 days,285	669 63155+30 eda	
630 DOU, Me		Mechanical Installations for DOU 38 Electrical Installations for DOU 3B		2.25.20.20.20.20.20.20.20.20.20.20.20.20.20.	Mon 14/11/22 Wed 14/12/22		Wed 14/11/22	Sat 25/11/23	Wed 24/1/24 Fri 23/2/24	1972000-19	s 6305S+30 edays	632	
632 = DOU	1.9.25.3	Site Acceptance Test for E&M Equip for DOU 3B		Wed 14/12/22	-	Wed 14/12/22	Fri 13/1/23	Fri 23/2/24	Sun 24/3/24		s 630,631	633	
633 C DOU	1.9.25,4	System Commissioning Test for DOU 3B	21 edays	Fri 13/1/23	Fri 3/2/23	Fri 13/1/23	Fri 3/2/23	Sun 24/3/24	Sun 14/4/24	435.63 edays	s 632		
634 Chamber		Commencement of Valves and Flowmeters Installation at Chambers			Sat 15/10/22	Thu 19/5/22	Sat 15/10/22	Thu 16/11/23	Sat 13/4/24	543 days		669	
635 Chamber		Installation of valves and flowmeters	Actions		Tue 16/8/22	Thu 19/5/22	Tue 16/8/22	Thu 16/11/23	Tue 13/2/24	0 days		636	35
636 Chamber	1.9.26.2 1.9.27	cables laying and terminations Commencement of E&M installation for Genset		Wed 17/8/22 Fri 4/6/21	Sat 15/10/22 Sat 30/12/23	Wed 17/8/22 Fri 4/6/21	Sat 15/10/22 Sat 30/12/23	Wed 14/2/24 Wed 24/1/24	Sat 13/4/24 Sat 13/4/24	546 days		669	569
638 Genset	1.9.27.1	Application for EPD's Approval	Carry State	Constitution .	Thu 24/6/21	Fri 4/6/21	Thu 24/6/21	Wed 24/1/24	Tue 13/2/24	1000000	s 364,409	639	
639 🔠 🚾 Genset	1,9,27,2	Installation of Genset		Wed 1/11/23		Wed 1/11/23	Sat 30/12/23	Wed 14/2/24	Sat 13/4/24	105 days	s 638,593		
640 E CIVII	1.9.28	Access Date for Portion 8-9B, underground pipework	60 edays	Sun 18/2/24	Thu 18/4/24	Sun 18/2/24	Thu 18/4/24	Sun 18/2/24	Thu 18/4/24		s 255+1539 edays		27/12
641 🔟 🚾 CIVII	1.9.29	Tentative Civil Handover Date, Portion 8-98	141 CA.	TO STORE SANDALE	Wed 27/12/23	Wed 27/12/23	Wed 27/12/23	Wed 27/12/23	Wed 27/12/23	O days		643	
642 Civil	1.9.30	Commencement of underground pipework modification and connection works	20 days	Thu 28/12/23	Tue 16/1/24	Thu 28/12/23	Tue 16/1/24	Thu 28/12/23	Tue 16/1/24	O days	5		
643 Civil	1.9.30,1	Road Excavation	7 days	Thu 28/12/23	Wed 3/1/24	Thu 28/12/23	Wed 3/1/24	Thu 28/12/23	Wed 3/1/24	O days		644	
644 Civil	1.9.30.2	Pipe Laying and connection works Pressure Tests			Wed 10/1/24	Thu 4/1/24	Wed 10/1/24	Thu 4/1/24 Thu 11/1/24	Wed 10/1/24 Sat 13/1/24	O days		645	
646 Civil	1.9.30.3	Make Good			Sat 13/1/24 Tue 16/1/24	Thu 11/1/24 Sun 14/1/24	Sat 13/1/24 Tue 16/1/24	Sun 14/1/24	Tue 16/1/24	O days		0.00	
647 = FSI	1.9.31	Commencement of Fire Services Installation	1200000	Mon 2/12/19	2.5000000000000000000000000000000000000	Mon 2/12/19	Tue 9/4/24	Thu 21/4/22	Sat 13/4/24	1 day		669	569
648 = FSI	1.9.31.1	Design Review of Approved General Building Plan	400 days	Mon 2/12/19	Mon 4/1/21	Mon 2/12/19	Mon 4/1/21	Thu 21/4/22	Thu 25/5/23	O days	5.2	649	549
649 FSI	1.9.31.2	Submission of WWOS42 for WSD's approval	120 days	Tue 5/1/21	Tue 4/5/21	Tue 5/1/21	Tue 4/5/21	Fri 26/5/23	Fri 22/9/23	867 day:	s 648	650	.50
650 = FSI	1.9.31.3	Submission of WWO46 for W5D's Inspection			Wed 18/10/23		Wed 18/10/23	Sat 23/9/23	Sun 22/10/23		s 460,498,528,591,64	20 0.054	
651 FSI	1.9.31.4	Obtain WWO46 Part V FSD Inspection and Approval for MVAC		Thu 19/10/23 Mon 18/12/23	Sun 17/12/23	Thu 19/10/23 Mon 18/12/23	Sun 17/12/23 Sun 7/1/24	Mon 23/10/23 Fri 22/12/23	Thu 21/12/23 Thu 11/1/24	O days	s 662,663,651	654,652	555
652 ## FSI	1.9.31.6	FSD Inspection and Approval for DG Stores		Sat 2/12/23		Sat 2/12/23	Fri 22/12/23	Fri 22/12/23	Thu 11/1/24	2,000	s 662,663,612	655	655
654 🛅 🚾 FSI	1.9.31.7	Submission of (FSI/314 & FSI/501) to FSD	14 days	Mon 18/12/23	Sun 31/12/23	Mon 18/12/23	Sun 31/12/23	Fri 29/12/23	Thu 11/1/24	7 days	s 662,663,651	655	555
655 F SI	1.9.31.8	Pre-inspection meeting with FSD	5 days	Mon 8/1/24	Fri 12/1/24	Mon 8/1/24	Fri 12/1/24	Fri 12/1/24	Tue 16/1/24	O day:	rs 654,652,653	656	556
656 = FSI	1.9.31.9	Initial Inspection with FSD		Sat 13/1/24		Sat 13/1/24	Sat 27/1/24	Wed 17/1/24	Wed 31/1/24	0 days		657	
657 = FSI	1.9.31.10	Document Checking Re-inspections with FSD		Sun 28/1/24 Wed 13/3/24	Tue 26/3/24	Sun 28/1/24 Wed 13/3/24	Tue 12/3/24 Tue 26/3/24	Thu 1/2/24 Sun 17/3/24	Sat 16/3/24 Sat 30/3/24	O day:		658	
658 = FSI	1.9.31.11	Issue of acceptance memo by FSD		Wed 13/3/24 Wed 27/3/24	and the second second	Wed 27/3/24	Tue 9/4/24	Sun 31/3/24	Sat 30/3/24 Sat 13/4/24	4 days			
660 🛅 💌 FSI	1.9.31.13	Installation of FS Pumps and Sprinkler Pumps		Mon 3/4/23		Mon 3/4/23	Thu 1/6/23	Thu 24/8/23	Sun 22/10/23	109 day:		663	563
661 🎹 🕶 FSI	1.9.31.14	Installation of Fire Hydrant and Booster Pumps	60 days	Mon 3/4/23	Thu 1/6/23	Mon 3/4/23	Thu 1/6/23	Thu 24/8/23	Sun 22/10/23	109 day:		663	
662 FSI	1,9.31.15	SAT for Manual and automatic fire detection and alarm system		Tue 19/9/23		Tue 19/9/23	Fri 17/11/23	Mon 23/10/23	Thu 21/12/23		ys 460,498,528,591,60		
663 = FSI	1.9.31.16	SAT for Fire hydrants, hose reels and street fire hydrant system Commencement of Plumbing and Drainage Installation		Tue 19/9/23	Fri 17/11/23 Sun 17/12/23	Tue 19/9/23	Fri 17/11/23 Sun 17/12/23	Mon 23/10/23 Wed 21/12/22	Thu 21/12/23 Sat 13/4/24	14 day:	s 460,498,528,591,60	669	
664 P&D	1.9.32	Commencement of Plumbing and Drainage Installation Submission of detail design for acceptance	100000000		Sun 17/12/23 Sun 11/10/20	100000000000000000000000000000000000000	Sun 1//12/23 Sun 11/10/20	Wed 21/12/22 Wed 21/12/22	Mon 20/3/23	O day:		666	
666 P&D	1.9.32.2	Submission of WWO542 for WSD's approval		Mon 12/10/20		Mon 12/10/20	Sat 9/1/21	Tue 21/3/23	Sun 18/6/23	682 day		458,496,526,5	458,496,526,589
667 P&D	1.9.32.3	Submission of WWO46 for WSD's Inspection	45 days	Tue 19/9/23	Thu 2/11/23	Tue 19/9/23	Thu 2/11/23	Mon 15/1/24	Wed 28/2/24	O day	ys 458,496,526,589	668	668
668 Ⅲ ► P&D	1.9.32.4	Obtain WWO46 Part V			Sun 17/12/23	Fri 3/11/23	Sun 17/12/23	Thu 29/2/24	Sat 13/4/24	118 day:			
669 Risk Allo		Risk Allowance for completion of Section 2	16		Mon 15/4/24	Thu 11/4/24	Mon 15/4/24	Sun 14/4/24	Thu 18/4/24		/s 425,464,502,538,55	8,59 422	HZC .
670	1.10	Section 3 - Completion of all works for retrofitting of the existing PSTetc	659 days	mon 2/12/19	wed 22/9/21	Mon 2/12/19	Wed 22/9/21	Mon 2/12/19	Wed 22/9/21	1 day	7.2		
	ess, Filter Plate 1.10.1	Section 3 - Latest Completion Date			Wed 22/9/21		Wed 22/9/21	Wed 22/9/21	Wed 22/9/21		ys 255+660 edays,739,		T -
672 existing g		Key Date KD3A, E&M Installation works of existing power house			Wed 29/7/20		Wed 29/7/20	Wed 29/7/20	Wed 29/7/20 Wed 9/6/21		y 255+240 edays,721 y 255+555 edays,712,		29/7
674 V Temp Fil	4 & No. 6 1.10.3 Itrate, LA 1.10.4	Key Date KD3B, E&M work for provision of the existing PSTs Access Date for Portion B-3B, Temporary Filtrate Lifting Well and Eq		Wed 9/6/21 Mon 2/12/19	Wed 9/6/21 Mon 2/12/19	Wed 9/6/21 Mon 2/12/19	Wed 9/6/21 Mon 2/12/19	Wed 9/6/21 Mon 2/12/19	Wed 9/6/21 Mon 2/12/19	0 eday		675	
		Tank											
675 Temp Fi	iltrate 1.10.5	Commencement of E&M Installation at Temp. Filtrate Lifting Well and Eq. Tank	287 days	Mon 27/4/20	Sun 7/2/21	Mon 27/4/20	Sun 7/2/21	Tue 28/4/20	Mon 8/2/21	1 day	y 674	693	195
676 Temp Fil	trate 1.10.5.1	Civil on-site survey and report submission for acceptance	14 days	Mon 27/4/20	Sun 10/5/20	Mon 27/4/20	Sun 10/5/20	Tue 28/4/20	Mon 11/5/20	O day	ys 395	677	577
677 Temp Fih		Civil structural design and drawing submission for acceptance		Mon 11/5/20		Mon 11/5/20	Sun 31/5/20	Tue 12/5/20	Mon 1/6/20	1000000	ys 676	678	
678 Temp File	30000	Civil formation and underground work		Mon 1/6/20	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Mon 1/6/20	Sun 21/6/20	Tue 2/6/20	Mon 22/6/20 Sat 19/12/20	0 day		684,679 680,683,686,6	684,679 680,683,685,685
679 Temp File	trate 1.10.5,4	RC structure works including cast-in items	180 days	Mon 22/6/20	2n 18/12/20	Mon 22/6/20	Fri 18/12/20	Tue 23/6/20	Sat 19/12/20	O day	7,376	030,003,000,0	
× 1	Task	Milestone • Milestone •)	Summary	•	Project Sun	nmary I	1 Manual Su	immary 1	1 Critical	4	Progres	Progress Manual Progress Slack
stwise													
ct: DE/2018/04													

Part	Drainag	ge Sen	vices De	partment	_							S	hek Wu Hui Effluer	Proposed Work Progr nt Polishing Plant - Main Works			ige Treatn	ment Facilitie	es													-	150
Workstand Work	ID	Ta Te	ext1		WBS	Task Na	ame		Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors						MS		-									14.	
Mary	0	0														D J F	M A	IM L IN	A S	OINI	D J F 1	MIALM	Half 2, 2021	loln	D J F	MAN	Half 2, 202:	slolnlo	Half 1, 2023	M J Half 2, 7	A S O	N D J	2024 F M
1																					I I												
The content of the																-					1												
Mary Content Mary	3 3					-			111111111111						687FS-30 days	.6					-											Ä.	
Continue						1														1													
Teal Part	85	Te	emp Filtra	ate, Mech	1.10.5.6.2	-	Installation of pumps	7 days Mon 18/1/21	Sun 24/1/21	Mon 18/1/21	Sun 24/1/21	Tue 19/1/21	Mon 25/1/21	1 day 684,309					100		#												
Market M	86	■ Te	emp Filtra	ate, Mech	1.10.5.6.		Installation of instrumentations	14 days Sat 19/12/20	Fri 1/1/21	Sat 19/12/20	Fri 1/1/21	Tue 12/1/21	Mon 25/1/21	24 days 679							<u>*</u> _												
Control Cont	7	■ Te	emp Filtra	ate	1.10.5.7		Electrical Installations for Temp. Filtrate Lifting Well and Eq. Tank	21 days Sat 26/12/20	Fri 15/1/21	Sat 26/12/20	Fri 15/1/21	Tue 29/12/20	Mon 18/1/21	0 days 683FS-30 days	690,692FS-7 d	ay					المسوم												
Procedure 1985 19	8	Te	emp Filtra	ate, Elec	100000000		Installation of cable trays and cable containments	21 days Sat 26/12/20	Fri 15/1/21	Sat 26/12/20	Fri 15/1/21	Tue 29/12/20																					
The content																																	
Company Comp	0	Te	emp Filtra	ate	1.10.5.8			7 days Mon 25/1/21	Sun 31/1/21	Mon 25/1/21	Sun 31/1/21	Tue 26/1/21	Mon 1/2/21	O days 683,687	691				1														
Professor 1964	1	Te	emp Filtra	ate	1.10,5.9			7 days Mon 1/2/21	Sun 7/2/21	Mon 1/2/21	Sun 7/2/21	Tue 2/2/21	Mon 8/2/21	1 day 690,692		1					1												- 1
Variable	2	■ Te	emp Filtra	ate	1.10.5.10		A CONTRACTOR OF	21 days Sat 9/1/21	Fri 29/1/21	Sat 9/1/21	Fri 29/1/21	Tue 12/1/21	Mon 1/2/21	2 days 687FS-7 days	691	1					*												
The content of the	3 🗓	II = Te	emp Filtra	ate	1.10.6	W	Vork completion for Temp. Filtrate Lifting Well and Eq. Tank	0 days Mon 8/2/21	Mon 8/2/21	Mon 8/2/21	Mon 8/2/21	Mon 8/2/21	Mon 8/2/21	0 days 675							8/3	2											
Part 1. 1. 1. 1. 1. 1. 1. 1	4 ٧	V ■ PS	ST No. 4 &	No. 6	1.10.7	A	Access Date for Portion B-3A, Existing PST No. 4 and No. 6	0 edays Mon 2/12/19	Mon 2/12/19	Mon 2/12/19	Mon 2/12/19	Mon 2/12/19	Mon 2/12/19	0 edays 2		2/12																	
1	E									100000000000000000000000000000000000000					697						8/	2											
Profestional Section Professional Sectional Sectiona	1				100000	C			- 889 Bh 12												1												
Profest Astronomy Astron															699						115												
Part							10.50.00.00.00.00.00.00.00.00.00.00.00.00								700	-					*	•											
Part																																	
Part															50,63						1	5											
		PS PS	ST No. 4 &	& No. 6, Me	ec 1.10.9.2.4		Installation of scum box with collection valve and pipework	7 days Fri 12/3/21	Thu 18/3/21	Fri 12/3/21	Thu 18/3/21	Mon 15/3/21	Sun 21/3/21	0 days 701	703							4											
Mone		₹PS	ST No. 4 &	§ No. 6, Me	ec 1.10.9.2.5		Installation of v-notched weir plate	10 days Fri 19/3/21	Sun 28/3/21	Fri 19/3/21	Sun 28/3/21	Mon 22/3/21	Wed 31/3/21	0 days 702	704							1											
Part Column Col	1	■ PS Mi	ST No. 4 & tech	k No. 6,	1.10.9.2.6			10 days Mon 29/3/21	Wed 7/4/21	Mon 29/3/21	Wed 7/4/21	Thu 1/4/21	Sat 10/4/21	0 days 703	705							1											
	5	■ PS	ST No. 4 &	k No. 6, Me	ec 1.10.9.2.7		Installation of motor and gearbox assembly for rotating bridge	7 days Thu 8/4/21	Wed 14/4/21	Thu 8/4/21	Wed 14/4/21	Sun 11/4/21	Sat 17/4/21	0 days 704	706,709	1						青											
Part		■ PS	ST No. 4 &	k No. 6, Me	ec 1,10.9.2.8		Installation of rotating bridge sludge and scum scraper assembly	7 days Thu 15/4/21	Wed 21/4/21	Thu 15/4/21	Wed 21/4/21	Wed 21/4/21	Tue 27/4/21	0 days 705	707							有											
		PS PS	ST No. 4 &	k No. 6, Me	ec 1.10.9.2.9		installation of removable FRP covers for effluent channel	14 days Thu 22/4/21	Wed 5/5/21	Thu 22/4/21	Wed 5/5/21	Wed 28/4/21	Tue 11/5/21	3 days 706	711																		
													CACAMACANAN	200000000000000000000000000000000000000								1											
West Conting Stand 1.0.12 Conting Stand Associated and Stand Assoc	L																																
The content of the										22/11/20/01/02			1,100,100,000,000		1000	-						1											
Second Control 1,001 Second Control Cont	4		-				access Date for Portion B-7A & 7B, area for modification of existing						Mon 2/12/19	0 edays 2		2/12																	
Section Sect			vistina man		1 10 11			1 day 5 m 21/1/04	Sun 21/1/21	Sum 21/1/21	Cun 31/1/21	Sup 31/1/21	Sup 31/1/21	Odwa							A 31/	/1											
Section processed Society Soci			Anting gen		2,20,11			1 039 30H 31/1/21	301134/4/21	2011211121	200 21/1/21	3411 34/4/21	30113141421	o days								21											
Part of subding general 1.01.12 Modelfoction of existing energency generators electrical works 1.01.12 Test the new antibodar for envise softing generators 1.01.12 Test the new antibodar for envise softing generators 1.01.12 Test the new antibodar for envise softing generators 1.01.12 Test the new antibodar for envise softing generators 1.01.12 Test the new antibodar for envise softing generators 1.01.12 Test the new antibodar for envise softing generators 1.01.12 Test the new antibodar for envise softing generators 1.01.12 Test decrease unsting generators 1.0	5	= ex	xisting ge	enset	1.10.12			89 days Sat 25/4/20	Wed 22/7/20	Sat 25/4/20	Wed 22/7/20	Fri 1/5/20	Tue 28/7/20	6 days				•	-														
## calcling general	6	= ex	xisting gen	nset	1.10.12.1		Fabrication and delivery of material to site	60 days Sat 25/4/20	Tue 23/6/20	Sat 25/4/20	Tue 23/6/20	Fri 1/5/20	Mon 29/6/20	0 days 415	717	1		-															
We enting general 1.0.12.6 Commencement of Each Installation at Existing Prices 1.0.13.7 Take down existing generate to DIO 3 day Mon 20/1/10 Men 20/1/10	7	= ex	xisting gen	nset	1.10.12.2		Modification of existing emergency generator electrical works	14 days Wed 24/6/20	Tue 7/7/20	Wed 24/6/20	Tue 7/7/20	Tue 30/6/20	Mon 13/7/20	0 days 716	718			16															
## existing generat 1.0.12.5 Take down existing generator to 050 3 days Mon 20/7/20 Wed 22/7/20 Wed 22/7/20 Sun 25/7/20 Tuz 28/7/20 0 days 713 721 ## filter Prises 1.10.14 Access Earls for E-10, existing dudge thinking beliefs Octave Mon 21/2/19 Men 27/2/19 Men 27/2/2/19 Men 27/2/2/19 Men 27/2/2/19 Men 27/2/2/19 Men 27/2/2/2 Men 27/2/2 Men 27/2/2/2 Men 27	3	= ex	xisting gen	nset	1.10.12.3		Test the new switchboar for on-site mobile generator	10 days Wed 8/7/20	Fri 17/7/20	Wed 8/7/20	Fri 17/7/20	Tue 14/7/20	Thu 23/7/20	0 days 717	719			ī	<u>ነ</u>														
Risk Allowance 1.10.13 Risk Allowance for meeting Key Date KD3A 1 day Thu 23/1/20 Thu 23/1/20 Thu 23/1/20 Wed 29/1/20 5 days 720 612																			1														
Filter Press 1.10.14 Access Date for P-10, existing shudge thickening building O edays Mon 2/12/13 Mon 2/12/12 Mon							55-55-55-55-55-55-55-55-55-55-55-55-55-	CONTRACTOR CONTRACTOR		Proposition of the Party of the	The state of the s	4200000000000000	200-200-200-200-200-200-200-200-200-200						1														
Filter Plates 1.10.15 Commencement of E&M Installation at Existing Filter Press 90 days Tue 25/5/21 Tue 25/5/21 Tue 25/5/21 Tue 21/9/21 0 days Filter Plates 1.10.16 Commencement of replacement of filter plates 90 days Tue 25/5/21 Tue 25/5/21 Sun 22/8/21 Tue 25/5/21 Sun 22/8/21 Tue 25/5/21 Sun 22/8/21 Tue 21/9/21 30 days 1.10.16 Replacement of Start plates 90 days Tue 25/5/21 Sun 22/8/21 Tue 25/5/21 Sun 22/8/21 Tue 21/9/21 30 days 1.10.16 Replacement of Start plates 90 days Tue 25/5/21 Sun 22/8/21 Tue 25/5/21 Sun 22/8/21 Tue 21/9/21 Sun 25/5/21 Sun 25/5		-	TO STATE OF THE PARTY OF												672	2/12			E .														
Filter Plates 1.0.16 Commencement of replacement of filter plates 90 days Tue 25/5/21 Sun 22/8/21 Tue 25/5/21 Tue 25/5/21 Sun 22/8/21 Tue 25/5/21 Tue	Ľ	-												- Constitution		7 -7 12							,										
## Risk Allowance for meeting Key Date KD38 1 day Sun 6/6/21 Sun 6															-	-																	
1.11 Section 4 - Completion of Work for remainder of the works 61 days Thu 14/3/24 Tue 14/5/24 Thu 14/3/24 Tue 14/5/24 Tue 14/5/24 Tue 14/5/24 1.11 Section 4 - Latest Completion Date Odays Tue 14/5/24 Tue 14/5/24 Tue 14/5/24 Tue 14/5/24 Tue 14/5/24 Odays 255-1625 edays 1.11 Section 4 - Latest date for connection of optical filtres 1 day Thu 14/3/24 Thu 14/3/24 Thu 14/3/24 Wed 20/3/24 Wed 20/3/24 Wed 20/3/24 Wed 20/3/24 Odays 255-1625 edays 745 Octro 1.11 Overall commissioning of CCTV system 30 days Fit 15/3/24 Sat 13/4/24 Fit 15/3/24 Sat 13/4/24 Fit 15/3/24 Fit 15/3/24 Thu 14/3/24 Thu 14/															671							1											
Explored Works, PST, RR, VI.1.1.1 Section 4 - Latest Completion Date Odays Tue 14/5/24 Tue	ı	Ris	isk Allowa	ince	1.10.17	Ri	isk Allowance for meeting Key Date KD3B	1 day Sun 6/6/21	Sun 6/6/21	Sun 6/6/21	Sun 6/6/21	Wed 9/6/21	Wed 9/6/21	2 days 712	673								7										
Latest date for connection of optical filibres 1 day Thu 14/3/24 Thu					1000		STATE CONTRACTOR AND	Secretary and Secretary		THE RESIDENCE			The treatment of																				-
1.11.3 Overall commissioning of CCTV system 30 days Fri 15/3/24 Sat 13/4/24 Fri 15/3/24 Sat 13/4/24 Fri 19/3/24 Fri 19/4/24 O days 459,497,527,590,744 748,747,746 SCADA 1.11.4 Overall commissioning of Facility Computerised Systems (SCADA, CMMS, PMS, IDMS) COthers 1.11.5 Overall Plant Commissioning and DSD pre-handover inspections 10 days Sun 21/4/24 Tue 30/4/24 Sun 21/4/24 Tue 30/4/24 Sat 27/4/24 Mon 6/5/24 Odays 745,746 748																																	
SCADA 1.11.4 Overall commissioning of Facility Computerised Systems (SCADA, CMMS, PMS, IDMS) 7 days Sun 14/4/24 Sat 20/4/24 Sat 20/4/24 Sat 20/4/24 Fri 26/4/24 O days 454,492,522,585,745 748,747 CMMS, PMS, IDMS) 1.11.5 Overall Plant Commissioning and DSD pre-handover inspections 10 days Sun 21/4/24 Tue 30/4/24 Sun 21/4/24 Tue 30/4/24 Sat 27/4/24 Mon 6/5/24 O days 745,746 748				DA	200000				22-030-000-00	, zanegogopo	1 2 10 W 1 30 C 2																						
CMMS, PMS, IDMS) —COthers 1.11.5 Overall Plant Commissioning and DSD pre-handover inspections 10 days Sun 21/4/24 Tue 30/4/24 Sun 21/4/24 Tue 30/4/24 Sun 21/4/24 Mon 6/5/24 Odays 745,746 748		_										and the second s																					
	L					CI	MMS, PMS, IDMS)	201203-01503-05-01		AT 34 DE - CORSON																							
Risk Allowance 1.11.6 Risk Allowance for completion of Section 4 2.days Wed 1/5/24 Thu 2/5/24 Wed 1/5/24 Thu 2/5/24 Wed 1/5/24 Thu 2/5/24 Wed 1/5/24 G days 745,746,747 4					100000										748																		
				ince	100000	0	overall Plant Commissioning and DSD pre-handover inspections								748					2								2					
Task Milestone Milestone Summary Project Summary Critical Progress Manual Progress Stack	wise			k			■ Milestone ◆ Milestone ◆	Summary	•	Project Su	mmary I	1 Manual Su	mmary I	1 Critical	Progres	ss —		Manual Manual	Progress -		Slack	• =											_

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	 AM1 – Wai Loi Tsuen AM2 – Fu Tei Au 	 AM1 – Ground Level AM2 – Ground Level
2 m Quanty	24-hour TSP	Once every 6 days	 AM1a – Site Boundary of the Shek Wu Hui STW (East) AM2a – Site Boundary of the Shek Wu Hui STW (North) 	 AM1a – Ground Level AM2a – Ground Level

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 _{eq} , L ₉₀ & L ₁₀ at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	 NM1 – Wai Loi Tsuen NM2 – Fu Tei Au NM3 – Man Kok Village 	 NM1 – Ground Level – Free Field NM2 – Ground Level – Free Field NM3 – Ground Level – Free Field

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
		Transect T1Point Count Location P1Point Count Location P2	Alama Na Tama Diana	No
	Weekly transect at both high and low tides to identify and enumerate all bird species utilizing the river channels and	Transect T2Point Count Location P3Point Count Location P4	Along Ng 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
	_	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 ³	Limit Level, μg/m³
AM1	320	500
AM2	322	300

Table C-2 Action and Limit Levels for 24-hour TSP

Location	Action Level, μg/m ³	Limit Level, μg/m ³
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) ⁽¹⁾

Note:

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.

⁽¹⁾ 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.

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
Air Quality Imp							
S2.3.1.3	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:	To minimize the dust impact	Contractor	Work Sites	Construction phase of Main Works Stage 1,	Air Pollution Control Ordinance (APCO) and Air Pollution	^
	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	*
	Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;						*
	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;						*
	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;						**

1

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S2.3.1.3	Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and		Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Air Pollution Control Ordinance (APCO) and Air Pollution Control (Construction Dust) Regulation	٨
	immediately after the activities so as to maintain the entire surface wet; 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;						*
	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;						*
	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						*
	Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies						۸

2

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							
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)	N/A
\$3.2.1.2	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	To minimize construction noise impact arising from	Contractor	Work Sites	Construction phase of Main Works Stage 1,	EIAO-TM, NCO	^
	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		^
	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		1		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		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		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		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		Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	#
	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;				Stage 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;						*																										
	Excavation profiles should be properly designed and executed with attention to the relevant requirements for environment, health and safety;						٨																										
	Where soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means;						N/A																										
	Stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or contaminated run-off during rainy season. Watering should be avoided on stockpiles of contaminated soil to minimize contaminated runoff and construction materials should be properly covered and located away from nearby water bodies; and																																*
	Supply of suitable clean backfill material after excavation, if required.	1					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						۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Waste Managen					1		
S6.2.2.1	responsible for the implementation of good site practices, arrangements for	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal Ordinance (WDO)	^
	Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;				Stage 3		۸
	Provision of sufficient waste disposal points and regular collection for disposal;						۸
	Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;						۸
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;						٨
	An Environmental Management Plan (EMP) should be prepared by the contractor and submitted to the Supervisor for approval.						N/A
S6.2.3.1	Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Reduce waste generation	Contractor	Work Sites	Prior to the commencement of construction of Main Works Stage 1, Stage 2 and Stage 3	WDO	۸
	Proper storage and site practices to minimize the potential for damage and contamination of construction materials;				and Stage 5		٨
	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;						۸
	Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); and						۸
	Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.						۸

7

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
6.2.4.1	Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1,	WDO	۸
	Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and				Stage 2 and Stage 3		*
	Different locations should be designated to stockpile each material to enhance reuse.						^
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	evant waste disposal permits from the appropriate authorities		Stage 3		^	
	Disposal of waste should be done at licensed waste disposal facilities.						^
S6.2.5.2	Maintain temporary stockpiles and reuse excavated fill material for backfilling;	Minimize waste impacts from	Contractor	Work Sites	Work Sites Construction phase of Main Works Stage 1, Stage 2 and Stage 3	n Provisions)	۸
	Carry out on-site sorting;	excavated and C&D materials					^
	Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;						۸
	Adopt "selective demolition" technique to demolish the existing structure and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; and						N/A
	Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified.						^
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		Works Stage 1,	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.	overnment has developed a charging policy for the disposal of waste to ndfill at present. It will provide additional incentive to reduce the plume of generated waste and ensure proper segregation to allow reuse of				^	
	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		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.			Stage 2 and Stage 3	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		Construction phase of Main	Waste Disposal (Chemical Waste	۸
	Recycling bins should also be placed to encourage recycling.	general refuse and avoid odour, pest			Stage 2 and	General) Regulation	۸
	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.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Landscape and V	Visual Visual						
	For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to.	Minimize the impact to the landscape and visual	Contractor		Prior to construction and construction phase		N/A
	With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.	Visua			phase		N/A
	MM4 – Tree Protection & Preservation Existing trees to be retained within the Project Site should be carefully protected during construction. In particular Old and Valuable Trees (OVTs) will be preserved according to ETWB TC (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.	Protect and Preserve Trees	Designer / Contractor		construction and	ETWB TCW No. 29/2004 and DEVB TC(W) No.7/2015	^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
\$7.3.2.1	MM5 - Tree Transplantation Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC No. 2/2004 and DEVB TC(W) No. 7/2015 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.	Transplant Trees where suitable for transplantation	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No.2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit	N/A
S7.3.2.1	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

11

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	where possible. Otherwise	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	structures	construction,	ETWB TCW No.11/2004 – Cyber Manual for Greening	N/A
S7.3.2.1	MM10 - Green Roof Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable.	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to visually sensitive receivers (VSRs) at high levels. Provide greening.	Designer / Contractor	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		^
S7.3.2.1	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: December 2019 – March 2020

Table E-1 Observations and Recommendations of Site Audit of Contract No. DC/2018/06

Parameters	Date	Observations and Recommendations	Follow-up
	14 Jan 2020	Manholes were not covered properly. They should be covered tightly at Portion A.	The condition was observed to be improved/rectified by the contractor during the audit session on 21 Jan 2020.
	14 Jan 2020	Ponding water was found at several points within Portion C. It should be removed or pumped through the sedimentation tank before discharge.	The condition was observed to be improved/rectified by the contractor during the audit session on 19 Feb 2020.
Water Quality	25 Feb 2020	Muddy water was accumulated at the eastern side of Portion C. It should be removed or pumped through the sedimentation tank to prevent leaking into the river nearby.	The condition was observed to be improved/rectified by the contractor during the audit session on 12 Mar 2020.
	24 Mar 2020	Ponding water accumulated at Portion A should be removed or pumped through the sedimentation tank.	The condition was observed to be improved/rectified by the contractor during the audit session on 31 Mar 2020.
	31 Mar 2020	Leakage of water pump drainage was observed at several locations of Portion C. The Contractor should repair the water pump drainage as soon as possible to prevent water accumulation.	Follow-up actions will be reported in the next quarter.
	6 Jan 2020	Haul roads appear dry during site inspection. Regular water spraying at haul road is recommended at Portion C.	The condition was observed to be improved/rectified by the contractor during the audit session on 14 Jan 2020.
Air Quality	6 Jan 2020	Soil on the public road should be removed outside Portion C.	The condition was observed to be improved/rectified by the contractor during the audit session on 14 Jan 2020.

Parameters	Date	Observations and Recommendations	Follow-up
	14 Jan 2020	Dust generation was observed at the western side of Portion C. Haul road should be sprayed with water to avoid excessive dusty materials.	The condition was observed to be improved/rectified by the contractor during the audit session on 21 Jan 2020.
	14 Jan 2020	Stockpile observed in Portion C should be covered by impervious materials or cleared as soon as possible.	The condition was observed to be improved/rectified by the contractor during the audit session on 21 Jan 2020.
	21 Jan 2020	Soil was observed on the public road outside Portion C. The Contractor should clean it up as soon as possible.	The condition was observed to be improved/rectified by the contractor during the audit session on 13 Feb 2020.
	6 Feb 2020	The haul road appeared to be dry and dirty at Portion A. It should be sprayed with water to avoid dust generation.	The condition was observed to be improved/rectified by the contractor during the audit session on 13 Feb 2020.
	19 Feb 2020	Stockpiles should be covered by impervious materials to avoid dust generation at Portion A and C.	The condition was observed to be improved/rectified by the contractor during the audit session on 25 Feb 2020.
	19 Feb 2020	The haul road appeared to be dry at Portion C. Water spraying should be provided to prevent excessive dust generation.	The condition was observed to be improved/rectified by the contractor during the audit session on 25 Feb 2020.
	25 Feb 2020	The haul road appeared to be dry and dirty at Portion A. The Contractor should clean the haul road to prevent excessive dust generation.	The condition was observed to be improved/rectified by the contractor during the audit session on 3 Mar 2020.
	12 Mar 2020	Dusty materials were generated on the haul road when truck drove by at Portion C. Contractor is reminded to conduct water spraying more frequently to avoid dust emission.	The condition was observed to be improved/rectified by the contractor during the audit session on 17 Mar 2020.
	17 Mar 2020	The top of the cement mixing facility was not covered at Portion A. The Contractor should entirely cover the cement mixing to avoid dust generation.	The condition was observed to be improved/rectified by the contractor during the audit session on 24 Mar 2020.

Parameters Date		Observations and Recommendations	Follow-up
Noise	N/A	There was no observation in the reporting period.	N/A
	14 Jan 2020	Waste was deposited on the road at Portion A. The Contractor should remove the waste as soon as possible.	The condition was observed to be improved/rectified by the contractor during the audit session on 6 Feb 2020.
Waste / Chemical Management	13 Feb 2020	Unused nylon bags and fences were deposited at Portion A. The Contractor should remove them to avoid waste accumulation.	The condition was observed to be improved/rectified by the contractor during the audit session on 19 Feb 2020.
	24 Mar 2020	Waste deposited at the eastern side of Portion C should be cleared as soon as possible.	The condition was observed to be improved/rectified by the contractor during the audit session on 31 Mar 2020.
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	17 Mar 2020	The gully at Portion B should be covered by impervious sheets to prevent muddy water and soil flowing into the drainage system.	The condition was observed to be improved/rectified by the contractor during the audit session on 24 Mar 2020.
	14 Jan 2020	Dust generation was found in Portion B. The soil inside should be sprayed with water to avoid dust generation.	The condition was observed to be improved/rectified by the contractor during the audit session on 21 Jan 2020.
	3 Mar 2020	The haul road was dirty and dry at Portion B. The Contractor should clean the road to prevent excessive dust.	The condition was observed to be improved/rectified by the contractor during the audit session on 12 Mar 2020.
Air Quality	3 Mar 2020	Stockpile should be covered by impervious materials to avoid dust generation at Portion B.	The condition was observed to be improved/rectified by the contractor during the audit session on 12 Mar 2020.
	24 Mar 2020	The haul road at Portion B was dirty and dusty. The Contractor should clean and wet the haul road as soon as possible to prevent dust generation.	The condition was observed to be improved/rectified by the contractor during the audit session on 31 Mar 2020.
Noise	N/A	There was no observation in the reporting period.	N/A
	6 Jan 2020	Temporary waste pile accumulated at Portion B should be covered by impervious materials before removal.	The condition was observed to be improved/rectified by the contractor during the audit session on 14 Jan 2020.
Waste / Chemical Management	14 Jan 2020	Waste stockpile is accumulated at Portion B. Contractor is reminded to remove the waste pile and cover it with impervious sheeting until disposal.	The condition was observed to be improved/rectified by the contractor during the audit session on 6 Feb 2020.
	25 Feb 2020	Waste stockpile accumulated should be removed at Portion B.	The condition was observed to be improved/rectified by the contractor during the audit session on 3 Mar 2020.

Parameters	Date	Observations and Recommendations	Follow-up
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 <u>2019</u> (year)

Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly											
	Total	and Large	Reused in	Reused in	Disposed			Paper/			Others, e.g.
Month	Quantity	Broken	the	other	as Public			cardboard		Chemical	general
	Generated	Concrete	Contract	Projects	Fill	Imported Fill	Metals	packaging	Plastics	Waste	refuse
	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in kg)	(in '000kg)					
Jan											
Feb											
Mar											
Apr											
May											
Jun											
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jul											
Aug											
Sep											
Oct											
Nov									_		
Dec	1.235	0.000	0.000	0.000	1.235	0.000	0.000	0.000	0.000	0.000	80.000
Total	1.235	0.000	0.000	0.000	1.235	0.000	0.000	0.000	0.000	0.000	80.000

- 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 mixed rock and soil is 1.9 ton/m3.
- 4. Assume the density of slurry and bentonite is 2.8 ton/m3.
- 5. The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank.
- 6. The non-inert C&D wastes are disposed at NENT.

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract													
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Diposal as Public Fill	Imported Fill	Metals	Paper/card board packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse				
(in '000m ³)	(in '000m³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	(in '000m ³)				
26.2	0.0	6.3	0.0	20.0	1.5	50.0	50.0	20.0	0.1	0.4				

- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) 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 if equal to or exceed 50,000 m³.
- (4) The density of soil fill is 2.24 ton/m³.

SUMMARY TABLE FOR WORK PROCESSES OR ACTIVITIES REQUIRING TIMBER FOR TEMPORARY WORKS

Contract No.: <u>DC/2018/06</u>

Contract Title: Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Civil Works for Sludge Treatment Facilities and 132kV Primary Substation

Item No.	Month.	Description of Works Process or Activity [see note (a) below]	Justifications for Using Timber in Temporary Construction Works	Est. Quantities of	Est. Quantities of Timber reused (m ³)	Actual Quantities Used (m ³)	Remarks
1	Oct-19	N/A	N/A	0	0	0	N/A
2	Nov-19	N/A	N/A	0	0	0	N/A
3	Dec-19	N/A	N/A	0	0	0	N/A
			Total Estimated Quantity of Timber	0.00			
			Used	0.00			

Notes:

(a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.

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

Monthly Summary Waste Flow Table for <u>2020</u> (year)

	Act		es of Inert Ca	&D Material	s Generated	Monthly	Actual	Quantities o	f C&D Wastes	Generated	Monthly
		Hard Rock									
Mandh	Total	and Large	Reused in	Reused in	Disposed			Paper/			Others, e.g.
Month	Quantity	Broken	the	other	as Public			cardboard		Chemical	general
	Generated	Concrete	Contract	Projects	Fill	Imported Fill	Metals	packaging	Plastics	Waste	refuse
	(in '000m ³)	(in '000m³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	(in '000m ³)				
Jan	0.376	0.000	0.000	0.000	0.376	0.000	0.000	0.000	0.000	0.000	0.040
Feb	1.122	0.000	0.000	0.250	0.872	0.000	0.000	0.000	0.000	0.000	0.082
Mar	2.289	0.000	0.000	0.350	1.939	0.000	0.000	0.000	0.000	0.000	0.057
Apr											
May											
Jun											
Sub-total	3.787	0.000	0.000	0.600	3.187	0.000	0.000	0.000	0.000	0.000	0.179
Jul											
Aug											
Sep											
Oct											
Nov											
Dec		_									
Total	3.787	0.000	0.000	0.600	3.187	0.000	0.000	0.000	0.000	0.000	0.179

- 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 mixed rock and soil is 1.9 ton/m3.
- 4. Assume the density of slurry and bentonite is 2.8 ton/m3.
- 5. The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank.
- 6. The non-inert C&D wastes are disposed at NENT.

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract													
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Diposal as Public Fill	Imported Fill	Metals	Paper/card board packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse				
(in '000m ³)	(in '000m³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	(in '000m ³)				
26.2	0.0	6.3	0.0	20.0	1.5	50.0	50.0	20.0	0.1	0.4				

- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) 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 if equal to or exceed 50,000 m³.
- (4) The density of soil fill is 2.24 ton/m³.

SUMMARY TABLE FOR WORK PROCESSES OR ACTIVITIES REQUIRING TIMBER FOR TEMPORARY WORKS

Contract No.: <u>DC/2018/06</u>

Notes:

Contract Title: Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Civil Works for Sludge Treatment Facilities and 132kV Primary Substation

Item No.	Month.	Description of Works Process or Activity [see note (a) below]	Justifications for Using Timber in Temporary Construction Works		Est. Quantities of Timber reused (m ³)	Actual Quantities Used (m ³)	Remarks
1	Oct-19	N/A	N/A	0	0	0	N/A
2	Nov-19	N/A	N/A	0	0	0	N/A
3	Dec-19	N/A	N/A	0	0	0	N/A
4	Jan-20	N/A	N/A	0	0	0	N/A
5	Feb-20	N/A	N/A	0	0	0	N/A
6	Mar-20	N/A	N/A	0	0	0	N/A
			Total Estimated Quantity of Timber	0			

Used

(a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.

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

Monthly Summary Waste Flow Table for 2019 (year)

	Actua		of Inert C&D	Materials G	enerated Mo	onthly	Actual	Quantities o	f C&D Wastes	Generated	Monthly
		Hard Rock									
.	Total	and Large	Reused in	Reused in	Disposed			Paper/			Others, e.g.
Month	Quantity	Broken	the	other	as Public	Imported		cardboard		Chemical	general
	Generated	Concrete	Contract	Projects	Fill	Fill	Metals	packaging	Plastics	Waste	refuse
	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in kg)	(in '000kg)					
Jan											
Feb											
Mar											
Apr											
May											
Jun											
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jul											
Aug											
Sep											
Oct											
Nov											
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

- 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 mixed rock and soil is 1.9 ton/m3.
- 4. Assume the density of slurry and bentonite is 2.8 ton/m3.
- 5. The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank.
- 6. 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 2020 (year)

	Actua		of Inert C&D	Materials G	enerated Mo	onthly	Actual	Quantities o	f C&D Wastes	Generated	Monthly
		Hard Rock									
Month	Total	and Large	Reused in	Reused in	Disposed			Paper/			Others, e.g.
WOILLI	Quantity	Broken	the	other	as Public	Imported		cardboard		Chemical	general
	Generated	Concrete	Contract	Projects	Fill	Fill	Metals	packaging	Plastics	Waste	refuse
	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in kg)	(in '000kg)					
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.760
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.490
Mar	150.170	0.000	0.000	0.000	150.170	0.000	0.000	0.000	0.000	0.000	0.000
Apr											
May											
Jun											
Sub-total	150.170	0.000	0.000	0.000	150.170	0.000	0.000	0.000	0.000	0.000	10.250
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	150.170	0.000	0.000	0.000	150.170	0.000	0.000	0.000	0.000	0.000	10.250

- 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 mixed rock and soil is 1.9 ton/m3.
- 4. Assume the density of slurry and bentonite is 2.8 ton/m3.
- 5. The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank.
- 6. The non-inert C&D wastes are disposed at NENT.

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

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

Monthly Summary Waste Flow Table for <u>2019</u> (year)

		Actual Quanti	ties of Inert C&D	Materials Generate	ed Monthly			Actual Quantities of	C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
Sub-total	0	0	0	0	0	0	0	0	0	0	0
July	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sept	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
Total	0	0	0	0	0	0	0	0	0	0	0

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

- (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 m³. (PS Clause 6.21.7(4)(b) refers)

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

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

Monthly Summary Waste Flow Table for <u>2020</u> (year)

		Actual Quanti	ties of Inert C&D	Materials Generate	ed Monthly			Actual Quantities of	C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
Sub-total	0	0	0	0	0	0	0	0	0	0	0
July	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sept	-	-	-	-	-	-	-	-	-	-	-
Oct											
Nov			_								_
Dec											
Total	0	0	0	0	0	0	0	0	0	0	0

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

- (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 m³. (PS Clause 6.21.7(4)(b) refers)

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

Monthly Summary Waste Flow Table for 2019 (year)

		Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated 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 '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	
Jan												
Feb												
Mar												
Apr												
May												
June												
Sub-total												
July												
Aug												
Sept												
Oct												
Nov												
Dec	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	

Notes:

•

⁽¹⁾ The performance targets are given in PS Clause 6.21.8(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

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

Monthly Summary Waste Flow Table for 2020 (year)

		Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated 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 '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr											
May											
June											
Sub-total	0	0	0	0	0	0	0	0	0	0	0
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	0	0	0	0	0	0	0	0	0	0	0

Notes:

•

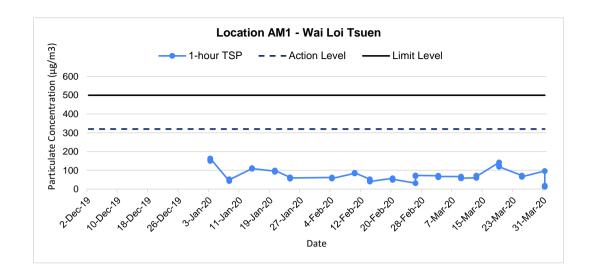
⁽¹⁾ The performance targets are given in PS Clause 6.21.8(14).

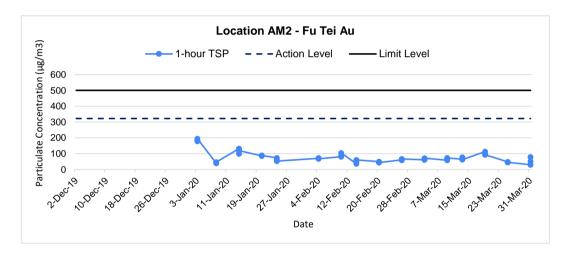
⁽²⁾ The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

⁽³⁾ Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

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

1-hr TSP Concentration Levels





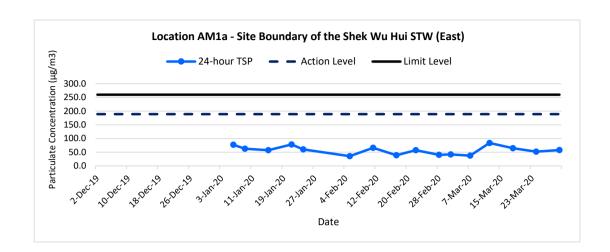
Remarks

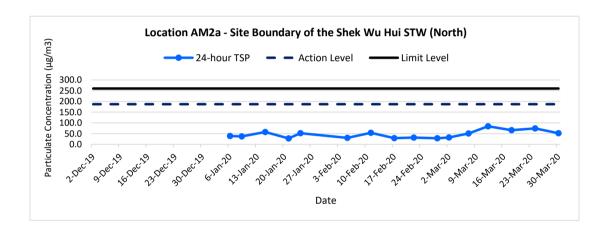
- (1) Since no actual construction works were carried out in December 2019, no 1-hour TSP monitoring was conducted. Thus,
- 1-hour TSP monitoring results were not applicable in December 2019.
- (2) Weather conditions within the reporting period were generally sunny and cloudy.
- (3) Major construction activities carried out during the reporting period include site clearance and preparation, underground utility detection, sheet piling installation, H-piles installation, drainage diversion works, demolition works, tree felling works, hoarding installation, trial pit works and pre-drilling works.
- (4) Other factors which might affect the monitoring results include village house renovation works and road traffic at Sheung Shui Tung Hing Road.

Title Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Date Mar 2020	Project No. MA190	
Graphical Presentation of 1-hour TSP Monitoring Results		Appendix G	

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

24-hr TSP Concentration Levels





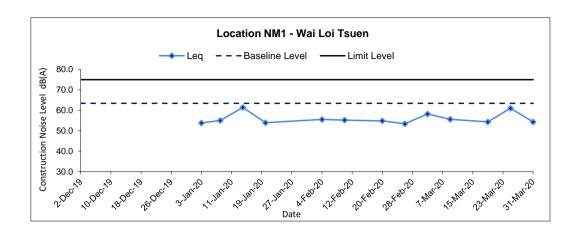
Remarks

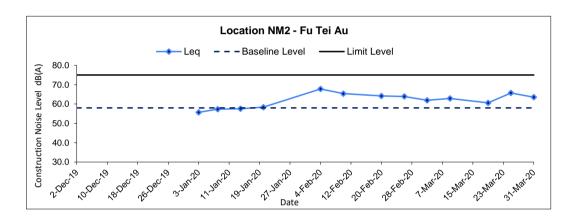
- (1) Since no actual construction works were carried out in December 2019, no 24-hour TSP monitoring was conducted. Thus, 24-hour TSP monitoring results were not applicable in December 2019.
- (2) Weather conditions within the reporting period were generally sunny and cloudy.
- (3) Major construction activities carried out during the reporting period include site clearance and preparation, underground utility detection, sheet piling installation, H-piles installation, drainage diversion works, demolition works, tree felling works, hoarding installation, trial pit works and pre-drilling works.
- (4) Other factors which might affect the monitoring results include vehicle movement within SWHSTW.

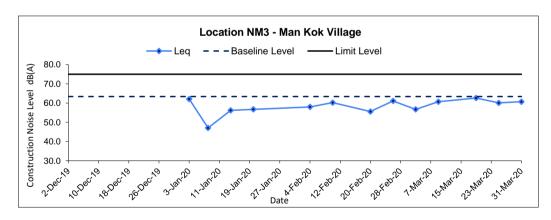
Title	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Date Mar 2020	Project No.	MA19019	CINOTECH
	Graphical Presentation of 24-hour TSP Monitoring Results		Appendix	Н	CINOTCOT

APPENDIX I GRAPHICAL PRESENTATIONS OF NOISE MONITORING RESULTS

Noise Levels







Remarks:

- (1) Since no actual construction works were carried out in December 2019, no construction noise monitoring was conducted. Thus, construction noise monitoring results were not applicable in December 2019.
- (2) Weather conditions within the reporting period were generally sunny and cloudy.
- (3) Major construction activities carried out during the reporting period include site clearance and preparation, underground utility detection, sheet piling installation, H-piles installation, drainage diversion works, demolition works, tree felling works, hoarding installation, trial pit works and pre-drilling works.
- (4) Other factors which might affect the monitoring results include railway noise, village house renovation works and road traffic at Sheung Shui Tung Hing Road.

Title	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Date Mar 2020	Project No. MA190	019
Graphi	cal Presentation of Construction Noise Monitoring Results		Appendix	CINOTECH

APPENDIX J SUMMARY OF ECOLOGICAL MONITORING ANALYSIS

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

Appendix J – Summary of Ecology Monitoring Analysis

Reporting Quarter: December 2019 – March 2020

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

T-values of l	Doto*	Confider	nce Level					
1-values of 1	Data	95%	99%					
	Monthly	✓	✓					
January 2020	Season	✓	✓					
	Overall	✓	✓					
	Monthly	√	√					
February 2020	Season	√	√					
	Overall	✓	✓					
_								
	Monthly	✓	✓					
March 2020	Season	√						
	Overall	√	√					

Remarks:

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

^{*} Since no actual construction works were carried out in December 2019, no ecological monitoring was conducted. Thus, T-Test analysis for waterbirds was not applicable in December 2019.

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

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

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	January 2020	February 2020	March 2020
Egretta garzetta	Little Egret	小白鷺	✓	✓	✓
Ardea cinerea	Grey Heron	蒼鷺	✓	✓	✓
Ardeola bacchus	Chinese Pond Heron	池鷺	Action Level	✓	Action Level
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	✓	✓	√
Ardea alba	Great Egret	大白鷺	✓	✓	✓
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	✓	✓	✓

Remarks

^{*} Since no actual construction works were carried out in December 2019, no ecological monitoring was conducted. Thus, T-Test analysis for representative waterbirds from point count was not applicable in December 2019.

 $[\]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

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

Appendix K – Summary of Exceedance

Reporting Quarter: December 2019 – March 2020

(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

One (1) Action Level of ecological monitoring was triggered in January 2020.

One (1) Action Level of ecological monitoring was triggered in March 2020.

No Action Level of ecological monitoring was triggered in February 2020.

No Limit Level of ecological monitoring was triggered between January and March 2020.

Remarks: Since no actual construction works were carried out in December 2019, no air quality, construction noise and ecological monitoring were conducted. Thus, Action and Limit Level exceedances for air quality, construction noise and ecological monitoring were not applicable in December 2019.

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

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

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

Reporting Quarter: December 2019 – March 2020

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)	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	 Employed suction truck and dump truck to clear the silt and mud at Shek Sheung River Arranged to repair the wastewater treatment system Installed additional sedimentation tanks and wastewater treatment system to increase the on-site treatment capacity 	Investigation undergoing

Remarks: 1 environmental complaint was received in the reporting quarter.

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 were received in the reporting quarter.

MA19019\App L