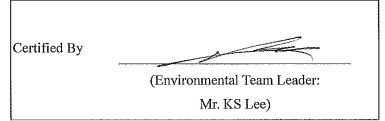
Drainage Services Department

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

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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)

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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

Quarterly EM&A Summary Report – December 2019 to March 2020

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**

Quarterly EM&A Summary Report – December 2019 to March 2020

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**.

Quarterly EM&A Summary Report – December 2019 to March 2020

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.

Quarterly EM&A Summary Report – December 2019 to March 2020

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.

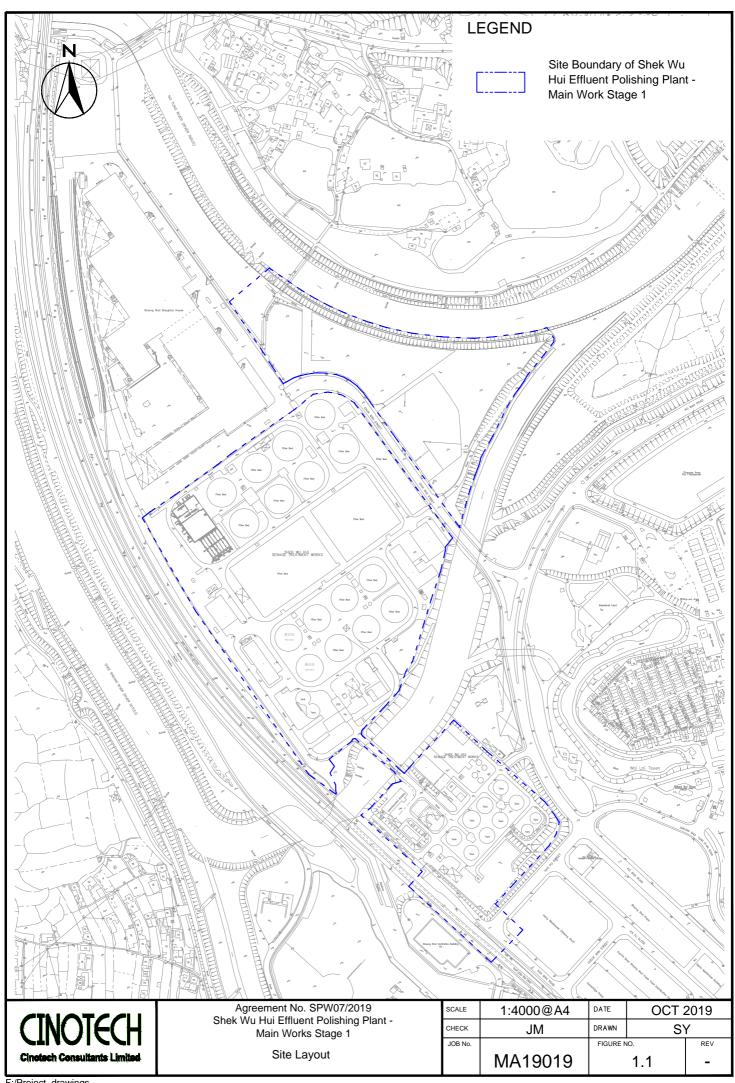
Water Quality

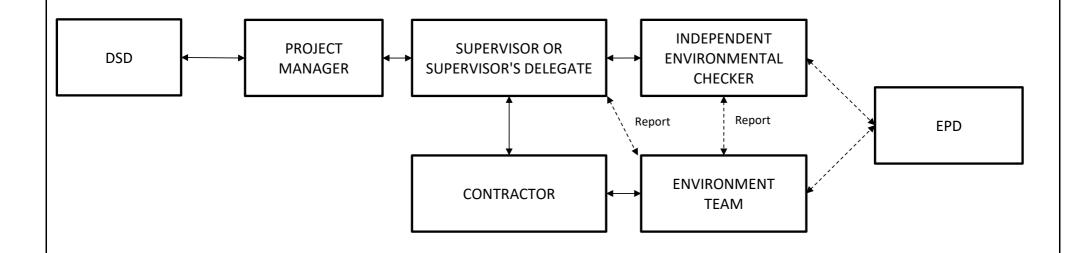
- Standing or ponding water should be removed as far as practicable.
- Muddy water should pump through the sedimentation tank.
- Untreated water from road washing should not fall into the manholes and drainage system.
- Muddy water should not be discharged directly into the surrounding rivers.
- No slurry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

Waste Management

Waste accumulation on-site should be prevented.

FIGURES



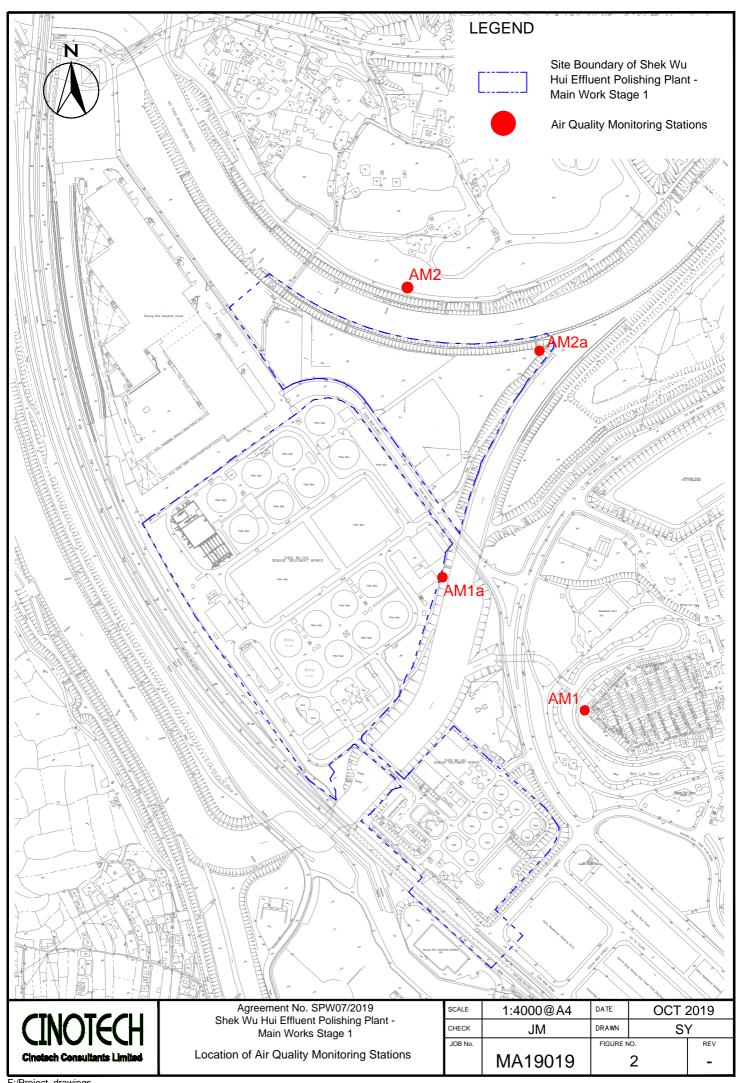


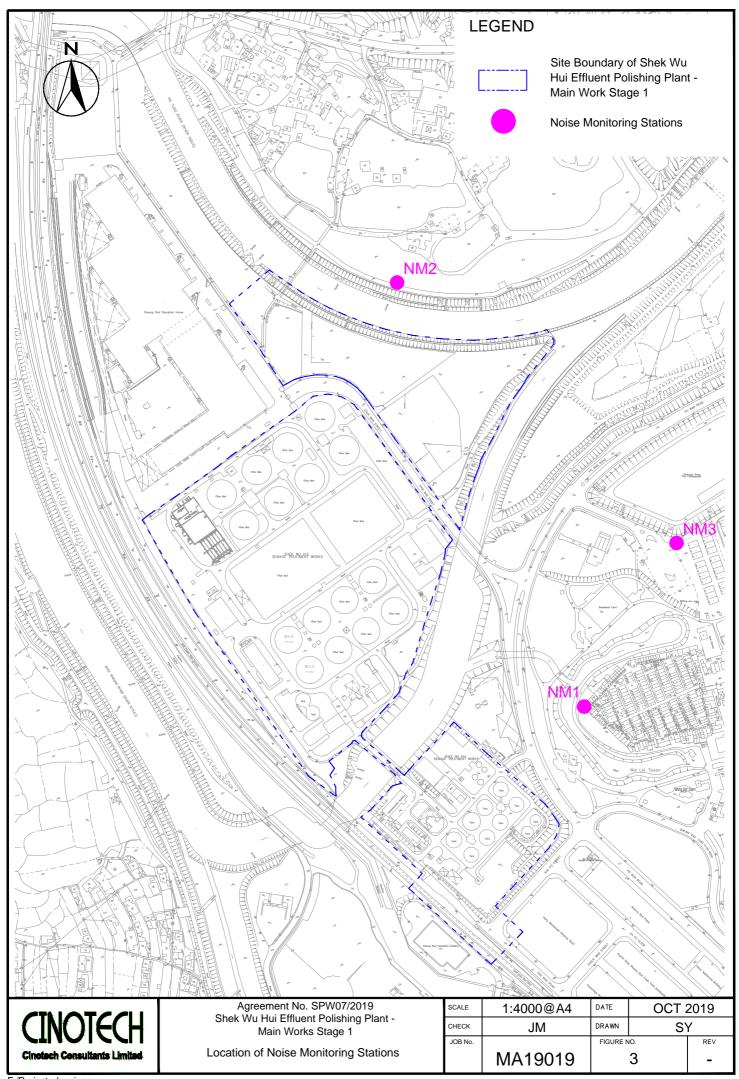
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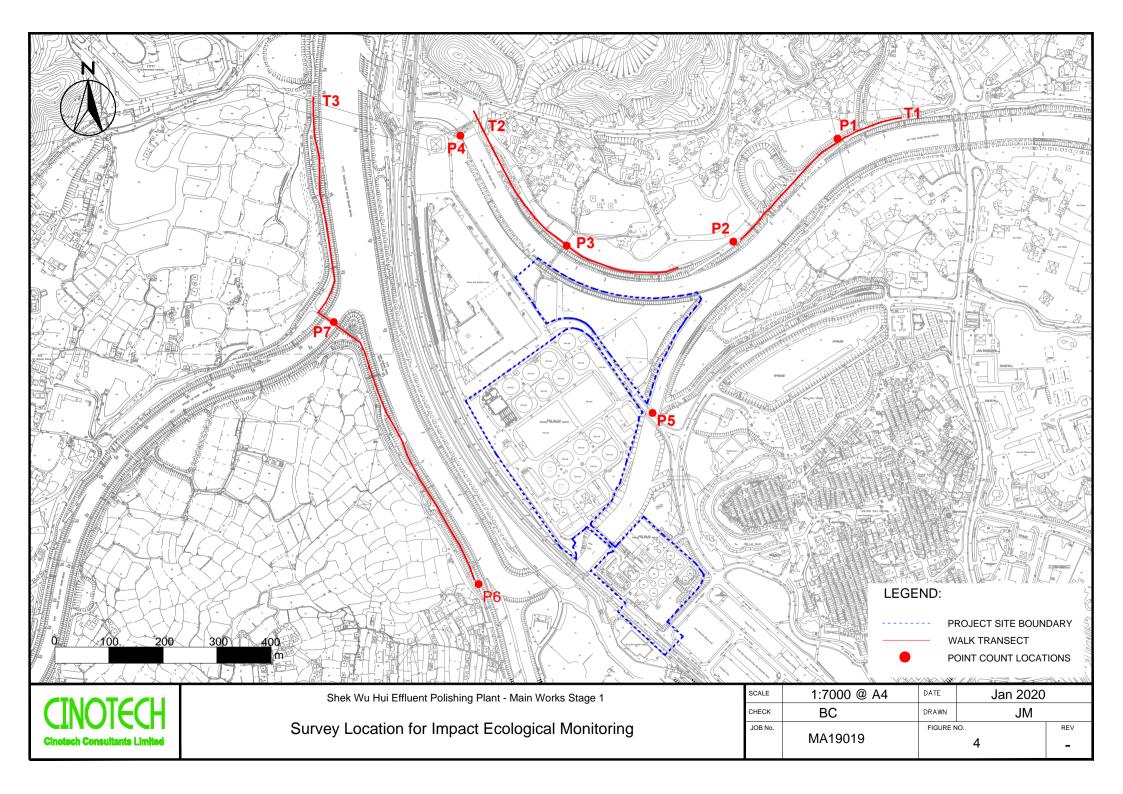
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Project Organisation For Environmental Monitoring and Audit

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APPENDIX A CONSTRUCTION PROGRAMME

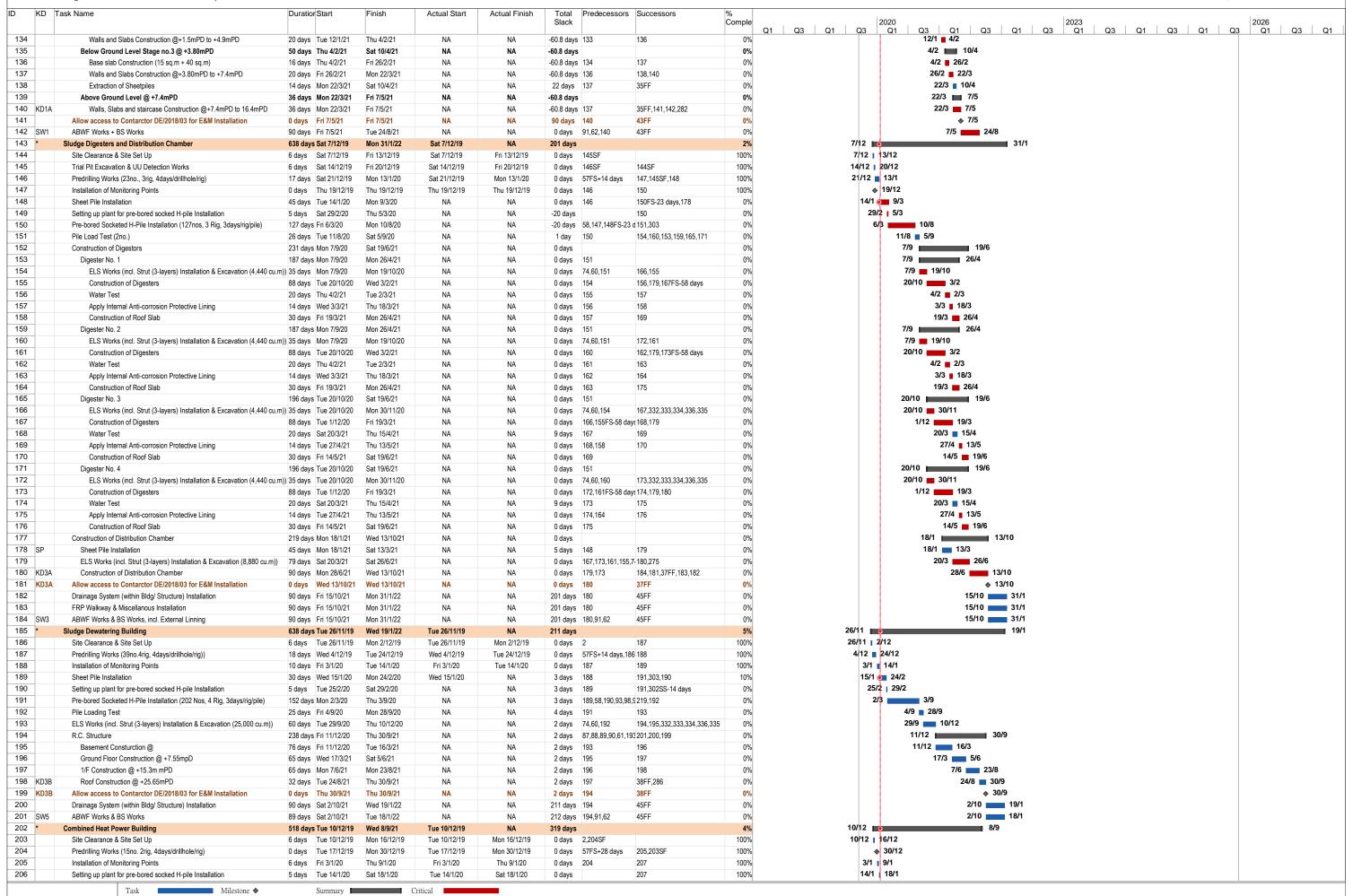


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s Date (cal. day)	180 days Mon 16/9/19	Fri 13/3/20	Mon 16/9/19	NA	0 days	99%	16/9 13/3			
ion A-1	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	♦ 16/9			
ion A-2	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2FS+180 days	100%	♦ 16/9			
ion C-1A	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	♦ 16/9			
ion C-1B	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	♦ 16/9			
ion C-2A	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	♦ 16/9			
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ion C-4	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	♦ 16/9			
ion C-5	0 days Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	16/9			
ion C-6	0 days Fri 13/3/20	Fri 13/3/20	NA	NA	0 days 2FS+180 days 311,303	0%	♦ 13/3			
ks Area WA1	1 day Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days 2	100%	16/9 16/9			
rks 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%	16/9 16/9			
	840 days Tue 17/9/19	Mon 3/1/22	NA	NA	0 days	0%	17/9	3/1		
ate (cal. day) A (525 days after starting date)	-	Mon 22/2/21	NA NA	NA NA	0 days	0%	1113	♦ 22/2		
	525 days Tue 17/9/19					0%		♦ 22/2 ♦ 7/7		
A (660 days after starting date)	660 days Tue 17/9/19	Wed 7/7/21	NA NA	NA NA	0 days			♦ /// ♦ 15/10		
A (760 days after starting date)	760 days Tue 17/9/19	Fri 15/10/21	NA NA	NA NA	0 days	0%				
B (750 days after starting date)	750 days Tue 17/9/19	Tue 5/10/21	NA NA	NA NA	0 days	0%				
C (750 days after starting date)	750 days Tue 17/9/19	Tue 5/10/21	NA	NA	0 days	0%				
BD (660 days after starting date)	660 days Tue 17/9/19	Wed 7/7/21	NA	NA	0 days	0%		♦ 7/7		
E (840 days after starting date)	840 days Tue 17/9/19	Mon 3/1/22	NA	NA	0 days	0%		♦ 3/1		
etion Date (cal. day)	2228.2 da Tue 17/9/19	Thu 23/10/25	NA	NA	0 days	0%	17/9	·		23/10
tion 1 of Works (675 days after starting date)	675 days Tue 17/9/19	Thu 22/7/21	NA	NA	0 days	0%		♦ 22/7		
tion 2 of Works (1,295 days after starting date)	1294 day: Tue 17/9/19	Sun 2/4/23	NA	NA	0 days	0%			♦ 2/4	
tion 3 of Works (1,120 days after starting date)	1120 day: Tue 17/9/19	Mon 10/10/22	NA	NA	0 days	0%	•		♦ 10/10	
tion 4 of Works (900 days after starting date)	900 days Tue 17/9/19	Fri 4/3/22	NA	NA	0 days	0%	•	♦ 4/3		
tion 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%			♦ 23/1	
ect Liability Period	365 days Wed 24/1/24	Thu 23/10/25	NA	NA	0 days 31	0%				23/10
Landscape Establishment Works	365 days Wed 24/1/24	Wed 22/1/25	NA	NA	0 days 31	0%			24/1 22/1	
Completion - Key Date (cal. day)	314 days Fri 7/5/21	Thu 17/3/22	NA	NA	-74.8 days	0%		7/5		
525 days after starting date)	0 days Fri 7/5/21	Fri 7/5/21	NA	NA	-74.8 days 140FF,138FF,330,	0%		♦ 7/5		
660 days after starting date)	0 days Mon 27/9/21	Mon 27/9/21	NA	NA	-83 days 366FF	0%		♦ 27/9		
760 days after starting date)	0 days Wed 13/10/21		NA	NA	0 days 180FF,181FF	0%		♦ 13/10		
750 days after starting date)	0 days Thu 30/9/21	Thu 30/9/21	NA	NA	4 days 198FF,199FF	0%		♦ 30/9		
750 days after starting date)	0 days Mon 24/5/21	Mon 24/5/21	NA NA	NA NA	133 days 210FF,211FF	0%		♦ 24/5		
660 days after starting date)	0 days Mon 17/5/21	Mon 17/5/21	NA NA	NA NA	50 days 236FF,237FF	0%		♦ 17/5		
840 days after starting date)	0 days Wild 17/3/21	Thu 17/3/22	NA NA	NA NA	-73.8 days 253FF,248FF,284F	0%		4 1176		
Completion - Section of the Works (cal. day)	1245.2 da Tue 24/8/21	Mon 20/1/25	NA NA	NA NA	-33.8 days	0%		24/8	20/1	
1 of Works (675 days after starting date)	0 days Tue 24/8/21	Tue 24/8/21	NA NA	NA NA	-33.8 days 142FF,309FF,141F	0%			, -	
	0 days	Mon 13/3/23	NA NA	NA NA	20 days 371FF,368FF,370F	0%		¥ 2-110	♦ 13/3	
2 of Works (1,295 days after starting date) 3 of Works (1,120 days after starting date)	0 days Mon 25/4/22	Mon 25/4/22	NA NA	NA NA		0%			V 10/0	
	· ·				167 days 212FF,213FF,238F			♦ 23/3		
4 of Works (900 days after starting date)	0 days Wed 23/3/22	Wed 23/3/22	NA NA	NA NA	-20 days 269FF,273FF,304F 0 days 341FF,339FF,340F	0% 0%		♦ 23/3	♦ 22/1	
5 of Works (1,590 days after starting date)	0 days Mon 22/1/24	Mon 22/1/24		NA						
Liability Period	0 days Mon 20/1/25	Mon 20/1/25	NA NA	NA NA	0 days 343FF	0%			♦ 20/1 1/1 ■ 20/1	
ndscape Establishment Works	20 days Wed 1/1/25	Mon 20/1/25	NA Na	NA	0 days 343FF	0%	4010		1/1 20/1	
ons (cal. day)	1054 day Mon 16/9/19	Thu 4/8/22	Mon 16/9/19	NA	20 days	62%	16/9	- 4/2	₩ŏ	
ting Package	536 days Mon 16/9/19	Thu 4/3/21	Mon 16/9/19	NA	63.8 days	52%	16/9	4/3		
pare & 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%	16/9 16/9			
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%	16/9 7/10			
letting for Preliminary Works (Instrumentation Monitoring etc.)	30 days Mon 7/10/19	Wed 6/11/19	Mon 7/10/19	Wed 6/11/19	0 days 53 311	100%	7/10 6/11			
letting for Drainage Diversion Works for UV System no.1& Effluent	44 days Tue 8/10/19	Wed 20/11/19	Tue 8/10/19	Wed 20/11/19	0 days 53 308	100%	8/10 20 /11			
pping Station No.1										
letting 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%	14/11 •21/11			
letting for Pre-drilling Works	49 days Sat 12/10/19	Fri 29/11/19	Sat 12/10/19	Fri 29/11/19	0 days 53 58SS+15 days,59SS+15 days,1	100%	12/10 29/11			
letting for Pre-bored Socketed Steel H-Pile	45 days Mon 18/11/19	Sat 25/1/20	Mon 18/11/19	NA	7.25 days 57SS+15 days 355,150,191,207,220,230,245,1	90%	18/11 📂 25/1			
letting for Contractor's Designer for Temporary Works	32 days Fri 25/10/19	Wed 27/11/19	Fri 25/10/19	Wed 27/11/19	0 days 57SS+15 days 61,60,74,62,63,64	100%	25/10 2 7/11			
letting for ELS Works	60 days Fri 20/12/19	Mon 17/2/20	Fri 20/12/19	NA	105 days 59 127,154,160,166,172,179,193,2	80%	20/12 🔖 17/2			
letting 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%	1/6	30/7		
letting 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%		4/1 4/3		
letting 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%	2/3 30	/4		
letting 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%	8/6	■ 6/8		
ory Submission, Submission & Approval		Thu 4/8/22	Mon 16/9/19	NA			16/9		1/8	
pare and Submit Subcontractor Management Plan (SMP)	-				-		16/9			
pare and Submit Interface Management Plan	· ·				-		Ĭ			
	· ·				-					
ersion	51 days 181011 10/3/13	146 3/11/19	WOII 10/3/13	146 3/11/13	0 days 2 000,10	10070	.0,0			
	r 45 days Mon 16/0/10	Wed 30/10/10	Mon 16/0/10	NΔ	0 days 2	78%	16/9 30/10			
pare TTA Plan, submit & approve for carnageway at Chuk wan Road for 2 13kV substation	10 days 10011 10/3/13	**Cu 30/10/19	WOII 10/3/13	INO		1070	10,0			
letting for Fort Submission and Sipare and Sipare and Sipare TTA Persion	lard Landscape, Soft Landscape, and others sion, Submission & Approval ubmit Subcontractor Management Plan (SMP) ubmit Interface Management Plan lan, submit & approve for footpath for Stage 1 - Drainage lan, submit & approve for carriageway at Chuk Wan Road for	Pipeworks, Utilities, and Roadworks for days for days	Pipeworks, Utilities, and Roadworks	Pipeworks, Utilities, and Roadworks	Na Na Na Na Na Na Na Na	Pipeworks, Utilities, and Roadworks 60 days Ann 8/6/20 Thu 30/4/20 NA NA 227 days 59 336,333,334,335,332 And Landscape, Soft Landscape, and others 60 days Mon 8/6/20 Thu 6/8/20 NA NA 0 days 59 339,340,341,343 And Sesion, Submission & Approval 1054 day Mon 16/9/19 Thu 4/8/22 Mon 16/9/19 NA 20 days 2	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% Alard 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% Alard Landscape, Soft Landscape, and others 60 days Mon 16/9/19 Thu 4/8/22 Mon 16/9/19 NA 20 days 82% Usinit 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% Usinit Interface Management Plan 60 days Mon 16/9/19 Thu 14/11/19 Mon 16/9/19 NA 0 days 2 58% Usinit Supprove 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% Usinit Approve for carriageway at Chuk Wan Road for 45 days Mon 16/9/19 Wed 30/10/19 Mon 16/9/19 NA 0 days 2 78%	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% Alard 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% Sision, Submission & Approval 1054 day Mon 16/9/19 Thu 4/8/22 Mon 16/9/19 NA 20 days bubmit Subcontractor Management Plan (SMP) 0 days Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 NA 0 days 2 100% bubmit Interface Management Plan 60 days Mon 16/9/19 Thu 14/11/19 Mon 16/9/19 NA 0 days 2 308,70 100% 16/9 17/11 Idan, submit & approve for footpath for Stage 1 - Drainage 51 days Mon 16/9/19 Wed 30/10/19 Mon 16/9/19 NA 0 days 2 78% 16/9 30/10	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% and Landscape, and others 60 days Mon 8/6/20 Thu 6/8/20 NA NA NA 0 days 59 339,340,341,343 0% and Landscape, and others 60 days Mon 16/9/19 Thu 4/8/22 Mon 16/9/19 NA 20 days bubmit Subcontractor Management Plan (SMP) 0 days Mon 16/9/19 Mon 16/9/19 Mon 16/9/19 NA 0 days 2 100% bubmit Interface Management Plan 60 days Mon 16/9/19 Thu 4/11/1/19 Mon 16/9/19 NA 0 days 2 308,70 100% 16/9/19 Thu 5/11/11 Ian, submit & approve for footpath for Stage 1 - Drainage 51 days Mon 16/9/19 Wed 30/10/19 Mon 16/9/19 NA 0 days 2 78% 16/9 30/10	Pipeworks, Utilities, and Roadworks 60 days Mon 2/3/20 Thu 30/4/20 NA NA NA 227 days 59 336,333,343,35,322 0% Alard Landscape, Soft Landscape, and others 60 days Mon 8/6/20 Thu 6/8/20 NA NA NA 20 days Sision, Submission & Approval Ubmit Subcontractor Management Plan (SMP) Ubmit Interface Management Plan Han, submit & approve for footpath for Stage 1 - Drainage 151 days Mon 16/9/19 Thu 4/1/1/19 Mon 16/9/19 NA 0 days 27 days 59 336,333,34,335,332 0% 82% 16/9 16/9 100% 16/9 100% 16/9 16/9 16/9 16/9 16/9 16/9 16/9 16/9



Task Name	Duratior Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors Successors	% Comple	Q1 Q3
Excavation Permit Application	38 days Mon 16/9/19	Tue 28/1/20	Mon 16/9/19	NA	-88.6 days	68 374FS+60 days,373FS+60 da	vs 80%	16/9 0 28/1
Approval for Lighting Removal 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	•	100%	16/9 22/11
Prepare, submit & approve for 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		100%	16/9 28/10
protection zone at Sun Wan Road from MTRCL	To days Mon Toror to	1001 20/10/10	WIGHT TO/O/ TO	WIGH 20/10/10	o dayo	2 000,000	10070	100 a
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)	00 days 111 25/10/19	WOII 23/12/19	11123/10/13	INA	0 uays	2 111	30 /6	20.17
	47 days Thu 7/11/10	Man 22/12/10	Th.: 7/11/10	Man 22/12/10	O daya	EQ 127.154.160.166.170.170.103	2 1000/	7/11 23/12
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			
Prepare, submit & approve the Method Statement for Drainage Diversion	27 days Mon 16/9/19	Sat 12/10/19	Mon 16/9/19	Sat 12/10/19	0 days	2 308,76	100%	16/9 12/10
Works								
PM approve the Method Statement for Drainage Diversion Works	14 days Sun 20/10/19	Sat 2/11/19	Sun 20/10/19	NA	0 days	75	80%	20/10 @ 2/11
Prepare, submit & approve for 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 Submissions	120 days Mon 16/9/19	Mon 13/1/20	Mon 16/9/19	Mon 13/1/20	0 days	2	100%	16/9 13/1
Prepare, submit & approve Site Management Plan for Trip Tricket System	n 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
Prepare, submit & approve Environmental Management Plan	50 days Mon 16/9/19	Mon 4/11/19	Mon 16/9/19	Mon 4/11/19	0 days	2	100%	16/9 4/1
, , , , , , , , , , , , , , , , , , ,					, .			
Notification to EPD for Works Commencement	55.44 day Wed 9/10/19	Mon 13/1/20	Wed 9/10/19	Mon 13/1/20	0 days	308,329	100%	9/10 13/1
Procurement Procurement	548 days Mon 16/9/19	Tue 16/3/21	Mon 16/9/19	NA	51.8 days	555,525	27%	16/9
Prepare and submit the Procurement Procedure	•				-	85	100%	16/9 19/10
4	34 days Mon 16/9/19	Sat 19/10/19	Mon 16/9/19	Sat 19/10/19	0 days			
PM Review & Accept Procurement Procedure	0 days Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	0 days		100%	♦ 19/10
Prepare, submit and approve the pipe works material	45 days Sun 20/10/19	Tue 3/12/19	Sun 20/10/19	NA	44.1 days		80%	20/10 3/12
Prepare, submit and approve the water proofing material	30 days Mon 15/6/20	Tue 14/7/20	NA	NA	12 days		0%	15/6 14/7
Prepare, submit and approve the concrete mix	60 days Sat 1/2/20	Tue 31/3/20	NA	NA	57 days	85 128,194,210,223,359,89	0%	1/2 31/3
Prepare, submit and approve the rebar material	30 days Mon 11/5/20	Tue 9/6/20	NA	NA	17 days	88 90,128,194,210,223,359	0%	11/5 🔳 9/6
Prepare, submit and approve the metal works material	30 days Wed 10/6/20	Thu 9/7/20	NA	NA	17 days		0%	10/6 9/7
Prepare, submit and approve the ABWF works material	30 days Mon 15/2/21	Tue 16/3/21	NA	NA	51.8 days			15/2 16/3
Preparation of Cost Saving Design	243.8 day Wed 18/9/19	Mon 18/5/20	Wed 18/9/19	NA NA	-77.8 days		48%	18/9
					-			18/9 1/2
Prepare, submit and approve CSD package no.1	136.2 dayWed 18/9/19	Sat 1/2/20	Wed 18/9/19	NA	10.8 days		65%	
Prepare and submit CSD proposal	66 days Wed 18/9/19	Fri 22/11/19	Wed 18/9/19	Fri 22/11/19	0 days		100%	18/9 22/11
PM review and approval of CSD	7 days Sat 23/11/19	Fri 29/11/19	Sat 23/11/19	Fri 29/11/19	0 days		100%	23/11 29/11
Obtain AIP	0 days Fri 29/11/19	Fri 29/11/19	Fri 29/11/19	Fri 29/11/19	0 days	95 98,97	100%	♦ 2 9/11
PM review and approval of CSD	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 CSD package no.2	243.8 dayWed 18/9/19	Mon 18/5/20	Wed 18/9/19	NA	-77.8 days		37%	18/9
Prepare and submit CSD proposal	95 days Wed 18/9/19	Mon 10/2/20	Wed 18/9/19	NA	-77.8 days	· ·	80%	18/9
				NA NA			0%	10/2 16/3
PM review and approval of CSD	35 days Mon 10/2/20	Mon 16/3/20	NA		-77.8 days			
Obtain AIP	21 days Mon 16/3/20	Mon 6/4/20	NA	NA	-77.8 days		0%	16/3 6/4
PM review and approval of CSD	42 days Mon 6/4/20	Mon 18/5/20	NA	NA	-77.8 days		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
Initial Tree survey and report submission	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 21/11/19	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 27/11/19	Wed 15/1/20	Wed 27/11/19	NA	0 days	108 121	70%	27/11 👩 15/1
Utility applications and Connection	89 days Mon 16/9/19	Thu 2/1/20	Mon 16/9/19	NA NA	46 days		75%	16/9 2/1
Construction of Site Accommodation in Works Area (On hold)			NA	NA NA		73,110FF,56	0%	24/12 28/2
, ,	52 days Tue 24/12/19				-	70,11011,00	0 70	
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 Pumping 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 Up	23 days Mon 16/9/19	Mon 14/10/19	Mon 16/9/19	Mon 14/10/19	0 days	2 116,117,118	100%	16/9 14/10
Tree Felling Works	5 days Tue 15/10/19	Sun 20/10/19	Tue 15/10/19	Sun 20/10/19	0 days	115 108	100%	15/10 20/10
Trial Pit Excavation & UU Detection Works	6 days Tue 15/10/19		Tue 15/10/19	Mon 21/10/19	0 days		100%	15/10 21/10
Temporary Footpath Diversion	20 days Mon 14/10/19		Mon 14/10/19	Tue 5/11/19	0 days		100%	14/10 5/1
Temporary diverted foorpath open to public	1 day Tue 10/12/19	Tue 10/12/19	Tue 10/12/19	Tue 10/12/19	0 days	•	100%	10/12 10/12
					-		100%	18/1 @ 21/1
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	o days	71,118FS-15 days 308FS-5 days	100%	10/1 0 2 // 1
Desdellers Wester (0. 4: 41 (1.98 1.1.)	0 d T 0110115	101-3 44 140 140	T. 0//0//0	10/- 144/10/10	0.1	200 224 220 57 40 40050 44 1	40001	31/12
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		308,331,330,57,10 122FS+14 days	100%	♦ 11/12 • • • • • • • • • • • • • • • • • • •
Installation of Monitoring Points	0 days Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19		121FS+14 days 123	100%	19/12
Sheetpile Installation (FSP IV, 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
Setting up plant for pre-bored socked H-pile Installation	5 days Wed 29/4/20	Wed 6/5/20	NA	NA	-51 days	123 125	0%	29/4 6/5
Pre-bored Socketed H-Pile Installation (34 Nos, 2 Rig, 3days/rig/pile)	51 days Mon 18/5/20	Sat 18/7/20	NA	NA	-60.8 days	58,124,99,104,103 126	0%	18/5 18/7
Pile Loading Test	26 days Sat 18/7/20	Thu 13/8/20	NA	NA	-72.8 days		0%	18/7 📕 13/8
ELS Works (incl. Strut (4-layers) Installation & Excavation (3,700 cu.m)	45 days Thu 13/8/20	Wed 7/10/20	NA	NA	-60.8 days		0%	13/8 7/10
R.C. Structure (370sq.m)			NA	NA NA		87,88,89,90,61	0%	7/10 7/5
, , ,	171 days Wed 7/10/20	Fri 7/5/21			-			
Below Ground Level Stage no.1 @ -1.10mPD	55 days Wed 7/10/20	Fri 11/12/20	NA NA	NA NA	-60.8 days		0%	7/10 11/12
Base slab Construction (162 sq.m)	25 days Wed 7/10/20	Fri 6/11/20	NA	NA	-60.8 days		0%	7/10 6/11
Walls and Slabs Construction @-1.10mPD to +2.50mPD	30 days Fri 6/11/20	Fri 11/12/20	NA	NA	-60.8 days		0%	6/11 ■ 11/12
Below Ground Level Stage 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 (170sg.m)	24 days Fri 11/12/20	Tue 12/1/21	NA	NA	-60.8 days	131 134	0%	11/12 🔳 12/1







KD Task Name	Duratior Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors	Successors	% Comple	2020 2023 2026
77	75.1	NA 100///22	0 : 40/4/22	***		50.005.005	200	. Q1	2020 2023 Q1 Q3 Q1
7 Pre-bored Socketed H-Pile Installation (50 Nos, 2 Rig 3days/rig/pile) 8 Pile Loading Test	75 days Sat 18/1/20	Wed 29/4/20	Sat 18/1/20	NA		58,205,206	208	5%	18/1 29/4
3	26 days Sat 2/5/20	Mon 1/6/20	NA NA	NA NA	110 days		209	0%	2/5 1 /6 2/6 1 6/9
111	90 days Tue 2/6/20	Wed 16/9/20	NA NA			74,60,208	210		17/9 24/5
KD3C R.C. Structure	200 days Thu 17/9/20	Mon 24/5/21	NA NA	NA			09 39FF,212,213,211,278	0%	24/5 • 24/5
KD3C Allow access to Contarctor DE/2018/03 for E&M Installation	0 days Mon 24/5/21	Mon 24/5/21		NA NA	110 days		39FF 45FF	0% 0%	25/5 4 /8
Drainage System (within Bldg/ Structure) Installation	60 days Tue 25/5/21	Wed 4/8/21	NA NA	NA NA	349 days				25/5 8/9
SW3 ABWF Works & BS Works	90 days Tue 25/5/21	Wed 8/9/21	NA 	NA •••		210,91,62	45FF	0%	
* Sewage Pumping Station	570 days Mon 25/5/20	Mon 25/4/22	NA	NA NA	55 days	0	040	0% 0%	25/5 25/5 30/5
Site Clearance & Site Set Up	6 days Mon 25/5/20	Sat 30/5/20	NA NA	NA NA	55 days		216	0%	1/6 1 18/6
Predrilling Works (4no.1rig, 4days/drillhole/rig) Installation of Monitoring Points	16 days Mon 1/6/20	Thu 18/6/20	NA NA	NA NA		57FS+14 days,2			
	6 days Fri 19/6/20	Fri 26/6/20	NA	NA	55 days		218	0%	19/6 26/6
	30 days Sat 27/6/20	Sat 1/8/20	NA	NA	55 days		220	0%	27/6 1/8
Setting up plant for pre-bored socked H-pile Installation	5 days Fri 4/9/20	Wed 9/9/20	NA	NA NA	22 days		220	0%	4/9 9/9
Pre-bored Socketed H-Pile Installation (22 Nos, 1 Rig, 3days/rig/pile)	66 days Thu 10/9/20	Sat 28/11/20	NA	NA	-	58,218,219,99,10		0%	10/9 28/11
Pile Loading Test	26 days Sun 29/11/20	Thu 24/12/20	NA	NA	28 days		222	0%	29/11 24/12
ELS Works (incl. Strut (3-layers) Installation & Excavation (1,440 cu.m))	80 days Mon 28/12/20	Wed 7/4/21	NA	NA		74,60,221	223	0%	28/12 7/4
KD3E R.C. Structure	200 days Tue 4/5/21	Fri 31/12/21	NA	NA	-	87,88,89,90,61,2		0%	31/12
SW3 ABWF Works & BS Works	90 days Mon 3/1/22	Mon 25/4/22	NA	NA •••		91,62,223	45FF	0%	3/1 25/4
* Workshop No. 2	501 days Tue 24/12/19		Tue 24/12/19	NA O 00/40/40	324 days		007	3%	24/12 29/12
Site Clearance & Site Set Up	3 days Tue 24/12/19	Sun 29/12/19	Tue 24/12/19	Sun 29/12/19	0 days		227	100%	
Predrilling 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		228	100%	31/12 13/1
Installation of Monitoring Points Setting up plant for pre-bored socked H-pile Installation	2 days Tue 14/1/20	Wed 15/1/20	NA	NA	77 days		230,229	0%	14/1 • 15/1
	5 days Mon 20/4/20	Fri 24/4/20	NA	NA	3 days		230	0%	20/4 24/4
Pre-bored Socketed H-Pile Installation (36 Nos, 2 Rig, 3days/rig/pile) Pile Loading Test	54 days Sat 25/4/20	Tue 30/6/20	NA	NA		58,228,229	231	0%	25/4 30/6
Pile Loading Test Excavation for Pile Cap (1,800 cu.m)	26 days Wed 1/7/20	Sun 26/7/20	NA	NA	4 days		232	0%	1/7 26/7
Excavation for Pile Cap (1,800 cu.m)	20 days Mon 27/7/20	Tue 18/8/20	NA	NA		74,60,231	234,332,333,334,336,335	0%	27/7 18/8
R.C. Structure	220 days Wed 19/8/20	Mon 17/5/21	NA	NA	4 days			0%	19/8 17/5
Ground Floor Construction @ +6.30mpD	80 days Wed 19/8/20	Mon 23/11/20	NA	NA	4 days		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		236	0%	24/11 3/3
KD3D 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
KD3D Allow 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
Drainage 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
SW3 ABWF 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
* Thermal Hydrolysis Pretreatment	403 days Thu 19/12/19	Mon 3/5/21	Thu 19/12/19	NA	0 days			11%	19/12
Site 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
Predrilling 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,24	41 243	100%	13/1 14/1
Installation of Monitoring Points	6 days Wed 15/1/20	Tue 21/1/20	NA	NA	254 days	242	245	0%	15/1 🧔 21/1
Setting 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
Pre-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
Pile Loading Test	25 days Sun 24/1/21	Wed 17/2/21	NA	NA	0 days	245	247	0%	24/1 📕 17/2
Excavation for Pile Cap (160 cu.m)	20 days Thu 18/2/21	Fri 12/3/21	NA	NA	-	74,60,246	248	0%	18/2 12/3
KD3E R.C. Plinth	40 days Sat 13/3/21	Mon 3/5/21	NA	NA	0 days	247	41FF,223	0%	13/3 🚃 3/5
* Ferric Chloride Dosing Facilities	216 days Tue 18/5/21	Mon 7/2/22	NA	NA	4 days			0%	18/5
Excavation 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
Plate Load Test	18 days Wed 30/6/21	Wed 21/7/21	NA	NA	4 days		252	0%	30/6 ■ 21/7
R.C. Structure	66 days Thu 22/7/21	Fri 8/10/21	NA	NA	4 days		253	0%	22/7 🚃 8/10
KD3E Steel Roof Structure (On-site Fabrication)	65 days Sat 9/10/21	Fri 24/12/21	NA	NA	4 days		41FF,254	0%	9/10 24/12
SW3 ABWF Works & BS Works	45 days Sat 25/12/21	Mon 7/2/22	NA	NA		253,91,62	45FF	0%	25/12 🔳 7/2
* Fire Hydrant and Booster Pump Room	204.8 day Mon 19/7/21	Thu 24/3/22	NA NA	NA NA	11 days			0%	19/7
Excavation for Raft Footing (160 cu.m)	10 days Mon 19/7/21	Thu 29/7/21	NA	NA	11 days	2,261	257,294	0%	19/7 29/7
Plate Load Test	18 days Fri 30/7/21	Thu 19/8/21	NA NA	NA NA	11 days		258	0%	30/7 19/8
Plate Load Test KD3E R.C. Structure	60 days Mon 15/11/21	Thu 27/1/22	NA NA	NA		257,61,263	259,41FF,296FS-1 day	0%	15/11 27/1
SW3 ABWF Works & BS Works	45 days Thu 27/1/22	Thu 24/3/22	NA NA	NA NA		258,91,62	45FF	0%	27/1 24/3
* Transformer and Switchroom	183 days Tue 1/6/21	Mon 10/1/22	NA NA	NA NA	-20.8 days			0%	1/6 10/1
* Transformer and Switchroom Excavation for Raft Footing (310 cu.m)	20 days Tue 1/6/21	Fri 25/6/21	NA NA	NA NA	-20.8 days		262,256	0%	1/6 25/6
Plate Load Test	18 days Fri 25/6/21	Sat 17/7/21	NA NA	NA NA	-20.8 days		263	0%	25/6 17/7
Plate Load Test KD3E R.C. Structure	60 days Thu 2/9/21	Mon 15/11/21	NA NA	NA NA	-	262,61,284	264,41FF,258	0%	2/9 15/11
SW3 ABWF Works & BS Works	45 days Mon 15/11/21	Mon 10/1/22	NA NA	NA NA		263,91,62	45FF	0%	15/11 10/1
* Water Meter Cabinet	73 days Tue 12/10/21	Sat 8/1/22	NA NA	NA NA	-20 days	200,01,02	.011	0%	12/10 8/1
	-	Sat 8/1/22 Sat 23/10/21	NA NA	NA NA	-	2 304	267	0%	12/10 23/10
Excavation for Raft Footing (6 cu.m) Plate Load Test	10 days Tue 12/10/21	Sat 23/10/21 Sat 13/11/21	NA NA	NA NA	-20 days		268	0%	25/10 13/11
R.C. Structure	18 days Mon 25/10/21	Sat 13/11/21 Sat 18/12/21			-20 days		269,271	0%	15/11 18/12
SW4 ABWF Works & BS Works	30 days Mon 15/11/21	Sat 18/1/22	NA NA	NA NA	-20 days		269,27 I 46FF	0%	20/12 8/1
	15 days Mon 20/12/21					268,91,62	→ 0FF		19/12 23/3
* Guard House	75 days Sun 19/12/21	Wed 23/3/22	NA NA	NA NA	-20 days	2.260	070	0%	
Excavation to Formation	21 days Sun 19/12/21	Sat 8/1/22	NA NA	NA NA	-23 days		272	0%	19/12 8/1
R.C. Structure	30 days Mon 10/1/22	Wed 16/2/22	NA	NA	-17 days		273	0%	10/1 16/2
SW4 ABWF Works & BS Works	30 days Thu 17/2/22	Wed 23/3/22	NA	NA		272,91,62	46FF	0%	17/2 23/3
* Coolers Pumping Station	100 days Mon 28/6/21	Tue 26/10/21	NA	NA	0 days			0%	28/6 26/10
Excavation for Raft Footing (185 cu.m)	40 days Mon 28/6/21	Fri 13/8/21	NA	NA	0 days		276,290	0%	28/6 13/8
SW4 R.C. Structure	60 days Sat 14/8/21	Tue 26/10/21	NA	NA	0 days	275,61	41FF,292	0%	14/8 26/10
* Waste Gas Buner	53 days Tue 25/5/21	Tue 27/7/21	NA	NA	110 days			0%	25/5 📺 27/7
Excavation 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
	10 1 5 11/0/01	Sat 3/7/21	NA	NA	110 days	278	280	0%	11/6 3/7
Plate Load Test	18 days Fri 11/6/21	3al 3/1/21	101	101	o aayo	210	200	0 70	



KD T	ask Name	Duratior Start	Finish	Actual Start	Actual Finish	Total Predecessors Successors	% Comple	2020 2023 2026
KD3E	R.C. Plinth	20 days Man 5/7/04	Tue 27/7/21	NA	NA		0% Q1 Q	3 Q1 Q3 Q1 Q1 Q3 Q1 Q1 Q3 Q1 Q3 Q1 Q3 Q1 Q1 Q1 Q3 Q1 Q1 Q1 Q3 Q1 Q1 Q1 Q3 Q1
*		20 days Mon 5/7/21 98 days Fri 7/5/21	Thu 2/9/21	NA NA	NA NA	• • • • • • • • • • • • • • • • • • • •	0%	7/5 2/17
	Plant Services Water System Excavation for Raft Footing (800 cu.m)	•	Tue 1/6/21	NA NA	NA NA	-60.8 days 2,140 283,261	0%	7/5 1/6
	• • • • • • • • • • • • • • • • • • • •	20 days Fri 7/5/21 18 days Tue 1/6/21		NA NA	NA NA		0%	1/6 23/6
D3E	Plate Load Test	- '	Wed 23/6/21				0%	23/6 23/9
D3E	Basement Construction @+1.20mPD	60 days Wed 23/6/21	Thu 2/9/21	NA	NA			2/10 29/12
	Deodorization System No. 11	73 days Sat 2/10/21	Wed 29/12/21	NA	NA	2 days	0%	
	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
03E	R.C. Plinth	35 days Wed 17/11/21	Wed 29/12/21	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	9 days 2,275 291	0%	30/8 21/9
	Plate Load Test	18 days Thu 23/9/21	Fri 15/10/21	NA	NA	9 days 290 292	0%	23/9 🔳 15/10
3E	R.C. Plinth	55 days Wed 27/10/21	Fri 31/12/21	NA	NA	0 days 291,61,276 41FF	0%	27/10 31/12
	H2S Removal System	139.8 day Mon 27/9/21	Thu 17/3/22	NA	NA	-60.8 days	0%	27/9 17/3
	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
	Plate Load Test	20 days Sat 9/10/21	Tue 2/11/21	NA	NA	9 days 294 296	0%	9/10 2/11
3E	R.C. Plinth	40 days Wed 26/1/22	Thu 17/3/22	NA	NA NA	-60.8 days 295,61,258FS-1 da 41FF	0%	26/1 17/3
JL		•	Thu 19/8/21	NA NA	NA NA		0%	11/6 19/8
	Deodorization System No. 12	58 days Fri 11/6/21				110 days	111	11/6 6/7
	Excavation to Formation	20 days Fri 11/6/21	Tue 6/7/21	NA NA	NA NA	110 days 2,278 299	0%	
.=	Plate Load Test	18 days Wed 7/7/21	Tue 27/7/21	NA 	NA	110 days 298 300	0%	7/7 27/7
3E	R.C. Plinth	20 days Wed 28/7/21	Thu 19/8/21	NA	NA	110 days 299,61,280 41FF	0%	28/7 ■ 19/8
	Underpass	496 days Tue 11/2/20	Mon 11/10/21	NA	NA	-20 days	0%	11/2
	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
	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))							
/4	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
	Pipe Works and Utility Installation	1832 day Thu 16/1/20	Mon 20/1/25	NA	NA	0 days 86	0%	16/1
	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	1.1 days	0%	16/7
1A	Stage 1 - Drainage Diversion of Drainage b/w Reconstructed Storm	60 days Thu 16/1/20	Sat 28/3/20	NA	NA	1.1 days 68,55,75,120FS-5 121,329SS,123	0%	16/1 28/3
	Water Manhole SMH1003177A and Reconstructed Storm Water					days,82,119		
1A	Machal-MUD22 Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng Drainage Culvert (1 Cell,	120 days Fri 19/2/21	Fri 16/7/21	NA	NA	32.8 days 325 43FF	0%	19/2 16/7
N4	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
	Pit Construction (11m x 9m)	40 days Wed 12/8/20	Sat 26/9/20	NA NA	NA NA	32.8 days 312 314	0%	12/8 26/9
	, ,	14 days Mon 28/9/20	Thu 15/10/20	NA NA	NA NA	32.8 days 313 319	0%	28/9 15/10
	Setting up of Entrance Ring and Gantry					,		
	Construction of Temporary Receiving Pit	47 days Wed 12/8/20	Wed 7/10/20	NA	NA	56.8 days	0%	12/8 7/10
	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
	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
	Pipe Jacking Operation	41 days Fri 16/10/20	Thu 3/12/20	NA	NA	32.8 days	0%	16/10 🚃 3/12
	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
	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
	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
	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
	Formwork Erection and grouting works	7 days Thu 26/11/20	Thu 3/12/20	NA	NA	32.8 days 322 324	0%	26/11 3/12
	Reinstatement of Temporary Launching Pit	30 days Fri 4/12/20	Mon 11/1/21	NA NA	NA NA	32.8 days 323 325	0%	4/12 11/1
	Reinstatement of Temporary Receiving Pit	30 days Tue 12/1/21	Thu 18/2/21	NA NA	NA NA	32.8 days 324 309	0%	12/1 18/2
	Process Pipeworks, All Sewerage, Utilities & Roadworks in Portion Co		Tue 1/3/22	NA NA	NA NA	19 days	0%	16/1
	Process Pipeworks	60 days Thu 16/1/20	Sat 28/3/20	NA	NA	21.1 days	0%	16/1 28/3
1A	Connection pipe at UV System no.1 & Effluent Pumping Stataior	-	Sat 28/3/20	NA NA	NA NA	21.1 days	0%	16/1 28/3
٠.٨	no.1	00 uays 111u 10/1/20	Jat 20/3/20	IVA	INA	Zi.i uayə	U 70	.01
		40 days Thu 16/1/20	Thu E/2/20	NI A	NIA	21 1 days 20000 02 224 220 422	00/	16/1 5/3
	Effluent Pipe (aprox. 70m, dia 300 - 1600)	,	Thu 5/3/20	NA NA	NA NA	21.1 days 308SS,82 331,330,123	0%	
	Effluent Pipe Flowmeter Chamber (3.8mx3.95mx3.42m(D))	20 days Fri 6/3/20	Sat 28/3/20	NA	NA	265 days 329 121,35	0%	6/3 28/3
	Plant Services Water Pipe (approx. 15m, dia 150-350)	20 days Fri 6/3/20	Sat 28/3/20	NA	NA	265 days 329 121,35	0%	6/3 28/3
4	Remaining Effluent Pipes	360 days Fri 11/12/20	Tue 1/3/22	NA	NA	19 days 63,166,172,193,23:46FF	0%	11/12 1/3
4	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	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
4	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
4	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
/4	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
15	Irrigation System	1025 day:Fri 7/8/20	Fri 19/1/24	NA	NA	2 days 64,2FS+231 days 47FF	0%	7/8
15	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
15	Soft Landscape Works	1025 day(Fri 7/8/20	Fri 19/1/24	NA NA	NA NA	0 days 64,2FS+235 days 343,47FF	0%	7/8
v5 V5	·			NA NA	NA NA		0%	3/10 22/1
UV	Outfall and River Embankment works & Retaining Wall	388 days Mon 3/10/22	Mon 22/1/24			0 days 47FF	***	20/1
	Establishment Works (365 Calendar Days)	291 days Sat 20/1/24	Mon 20/1/25	NA	NA	0 days 341,64 48FF,49FF	0%	
С	onstruction of Portion A of the Site	1203 day Wed 27/11/19	Mon 13/3/23	Wed 27/11/19	NA	20 days	4%	27/11
	CLP 132kV Substation	975 days Wed 27/11/19		Wed 27/11/19	NA	17 days	4%	27/11
	Internal Works	1203 day Wed 27/11/19	Mon 13/3/23	Wed 27/11/19	NA	20 days	5%	27/11
	Site Clearance & Site Set Up		Fri 13/12/19	Tue 10/12/19	Fri 13/12/19	0 days 2 348	100%	10/12 13/12



CIVII VV	vorks for Sludge Treatment Facilities and CLP 132kV Primary Substation								
)	KD Task Name	Duratior Start	Finish	Actual Start	Actual Finish	Total Predecessors	Successors	% Comple	2020 Q1 Q3 Q1
348	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
349	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
350	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
351	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 1 16/1
352	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
353	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
354	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 1 8/2
355	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
356	Pile Load Test	25 days Sun 26/4/20	Wed 20/5/20	NA	NA	13 days 355	357	0%	26/4 ■ 20/5
357	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 1 18/6
358	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
359	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 17/7
360	Basement	60 days Thu 19/11/20	Sat 30/1/21	NA	NA	-70 days	361	0%	19/11 30/1
361	Ground Floor	60 days Mon 1/2/21	Sat 17/4/21	NA	NA	-70 days 360	362	0%	1/2 17/4
362	First Floor	44 days Mon 19/4/21	Thu 10/6/21	NA	NA	-70 days 361	363	0%	19/4 10/6
363	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
364	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
365	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
366	KD2A Architectual Works	60 days Mon 19/7/21	Mon 27/9/21	NA	NA	-70 days 363	367,36FF	0%	19/7 27/9
367	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
368	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
369	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
370	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
371	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
372	External Works	302 days Thu 9/4/20	Sat 17/4/21	NA	NA	-70 days		0%	9/4 17/4
373	Road Widening Works	152 days Thu 9/4/20	Tue 13/10/20	NA	NA	-70 days 70FS+60 days		0%	9/4 13/10
374	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
375	Road Works	76 days Wed 15/7/20	Tue 13/10/20	NA	NA	-70 days 374	376	0%	15/7 13/10
376	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
377	SW2 Construction of New Boundary Wall	120 days Thu 19/11/20	Sat 17/4/21	NA	NA	582 days 376	44FF	0%	19/11 17/4

	Contract Dates	1585 days	Mon 18/11/19	Thu 27/3/25		0 days	None	Qtr 2	18/11 Qtr 1 Qtr 2	Vu 4 Vull Vur2 دعي	T VIIIV + IIV CIIV	QII QII QII QII QII	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Q	QU4 QU1
	Starting Date	0 days	Mon 18/11/19	Mon 18/11/19	35FS+1 day,36FS+1 day		Calendar Day		18/11					Ţ
	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 • 18/11 •					
	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	0 days	Calendar Day		18/11					
	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	189 203	0 days 49 days	Calendar Day Calendar Day		18/11 • 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 da	ays 280,29FS+1 day	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 da	•	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	0 days	Mon 18/11/19	Mon 18/11/19 2		1957 days	Calendar Day		18/11					
	works by others) Portion B-9C (Area for the works for pipeworks)	0 days	Wed 22/7/20	Wed 22/7/20 2FS+248 da	avs	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 1 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	360 days	Tue 19/11/19	Thu 12/11/20 2FS+1		0 days	Calendar Day		19/11	12/11				
;	in Portion B-2 (360days after starting date) KD1C completion of civil and structural works of Inlet Works No.1 in Portion	990 days	Tue 19/11/19	day,42FF 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		0 days	Calendar Day		19/11			20	/2	
:	in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4	1140 days	Tue 19/11/19	day,44FF Sun 1/1/23 2FS+1		0 days	Calendar Day		19/11			1/1		
	(1,140days after starting date)			day,45FF			·							
-	KD1F completion of civil and structural works of MFB from B2 floor to 1st floor	800 days	Tue 19/11/19	Wed 26/1/22 2FS+1		0 days	Calendar Day		19/11		26/1			
3	level in Portion B-5 (800days after starting date) KD1G completion of civil and structural works of MFB in Portion B-5 (950days	950 days	Tue 19/11/19	day,46FF Sat 25/6/22 2FS+1		0 days	Calendar Day		19/11			25/6		
	after starting date)	Joo dayo		day,47FF			Day							
1	KD1H completion of civil and structural works of SAS Pumping Station in	630 days	Tue 19/11/19	Mon 9/8/21 2FS+1		0 days	Calendar Day		19/11		9/8			
	Portion B-6 (630days after starting date) KD1I completion alternation works for existing Power House in Portion B-7A	150 days	Fri 4/9/20	day,48FF 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 facilites 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			
Α	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										
3	KD2B completion of air supply main alternation to existing air blower house	420 days	Tue 19/11/19	Mon 11/1/21 2FS+1 day,52FF		0 days	Calendar Day		19/11	11/1				
4	No.2 in Portion B-8A (420days after starting date) 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		, .	,							
	Completion Date (cal. Day)	1956 days	Tue 19/11/19	Thu 27/3/25		0 days	Calendar Day		19/11				47/44	27/3
	Section 1 of the Works (1,460 after starting date)	1460 days	Tue 19/11/19 Tue 19/11/19	Fri 17/11/23 2FS+1 day, Fri 6/5/22 2FS+1 day,		0 days	Calendar Day				6/5 🍁		17/11 🔷	
	Section 2 of the Works (900 after starting date) Section 3 of the Works (1,590 after starting date)	900 days 1590 days	Tue 19/11/19	Tue 26/3/24 2FS+1 day,		0 days 0 days	Calendar Day Calendar Day				0/3		26/3 🧆	
	Defects Liability Period and Landscape Establishment Works	365 days	Thu 28/3/24	Thu 27/3/25 37FS+1 day	•	0 days	Calendar Day						•	27/3
ı	Planned Completion	1686 days	Fri 14/8/20	Thu 27/3/25		0 days	Calendar Day		14/8	•				27/3
	Planned Completion - Key Dates (cal. day)	1170 days	Fri 14/8/20	Sat 28/10/23	0455	0 days	Calendar Day		14/8	•			28/10	
3	KD1A completion of AR3 in Portion B-1 (300days after starting date) KD1B completion of utilities diversion for commencement of Inlet Works No.1	0 days 0 days	Sat 12/9/20 Fri 14/8/20	Sat 12/9/20 121FF Fri 14/8/20 123FF	21FF 22FF	0 days 90 days	Calendar Day Calendar Day			12/9 ♦ 8 ♦				
,	in Portion B-2 (360days after starting date)	o days	11114/0/20	111 14/0/20 12311	2211	30 days	Calcildal Day			•				
;	KD1C completion of civil and structural works of Inlet Works No.1 in Portion	0 days	Thu 4/8/22	Thu 4/8/22 175FF,174F	FF 23FF	0 days	Calendar Day					4/8 🔷		
)	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks	0 days	Mon 20/2/23	Mon 20/2/23 186FF,185F	F 24FF	0 days	Calendar Day					20/2 🧄		
	in Portion B-3 (1190days after starting date)	o days	141011 20/2/20	MON 20/2/20 1001 1 , 100F		o days	Calonidai Day							
E	KD1E completion of civil and structural works of Bioreactor in Portion B-4	0 days	Sat 31/12/22	Sat 31/12/22 197FF,198F	FF 25FF	0 days	Calendar Day					31/12 🔷		
F	(1,140days after starting date) 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,220F	F 26FF	0 days	Calendar Day				25/1 🔷			
	level in Portion B-5 (800days after starting date)	o days				Jacyo	Calonida Day							
3	KD1G completion of civil and structural works of MFB in Portion B-5 (950days	0 days	Sat 25/6/22	Sat 25/6/22 221FF,222F	F 27FF	0 days	Calendar Day				25/	6 ♦		
Н	after starting date) KD1H completion of civil and structural works of SAS Pumping Station in	0 days	Mon 9/8/21	Mon 9/8/21 231FF,230F	F 28FF	0 days	Calendar Day			Q.	/8 ♦			
	Portion B-6 (630days after starting date)	o days	WIOTI 3/0/21	WOT 9/0/21 23 11 1 ,23UF		o days	Calcillat Day				- *			
	KD1I completion alternation works for existing Power House in Portion B-7A	0 days	Sat 30/1/21	Sat 30/1/21 280FF	29FF	0 days	Calendar Day			30/1 🔷				
J	(150days after access date of B-7A) KD1J completion of auxiliary facilities in Portion B-7 (800days after starting	0 days	Wed 26/1/22	Wed 26/1/22 276FF,275F	F.2730FF	0 days	Calendar Day				26/1 🄷			
	date)	o days				Jacyo	Caloridai Day							
4	KD2A completion of effluent pipes to UV system and connection to its	0 days	Sat 27/3/21	Sat 27/3/21 283FF	31FF	0 days	Calendar Day			27/3 🤷				
3	downstream in Portion B-9 (495days after starting date) 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)	o days				. oo aayo	Calonida Day			*				
A	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,271F	F,2635FF	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,287F		0 days	Calendar Day				6/5 🧄			
	Section 3 of the Works (1,590 after starting date)	0 days	Tue 26/3/24	Tue 26/3/24 281FF,291F	F,2937FF,58FF	0 days	Calendar Day						26/3 ♦	
	Planned Time Risk Allowance (14days per 365day)	60 days	Sat 13/1/24 Thu 27/3/25	Tue 26/3/24 57FF Thu 27/3/25 294FF	38FF	294 days	None Calendar Day						13/1 26/3	27/3
9	Defects Liability Period and Landscape Establishment Works Submissions (cal.day)	0 days 880 days	Mon 18/11/19	Fri 15/4/22	SOFF	0 days	Calendar Day Calendar Day		18/11			5/4		2113
	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 29/11					
	PM review and accept subletting procedure	12 days	Sat 30/11/19	Wed 11/12/19 62	64,65,68,69,70,71,72,73		Calendar Day		30/11 11/12					
	Subletting for Preliminary Works (surveying, condition survey, site clearacne	14 days	Thu 12/12/19	Wed 25/12/19 63,82	87,116	1 day	Calendar Day		12/12 = 25/12					
	etc) Subletting for Contractor desinger for temporary works and ICE	24 days	Thu 12/12/19	Sat 4/1/20 63,82	71,72,66	212 days	Calendar Day		12/12 = 4/1					
	Subletting for independent BIM consultant	24 days	Mon 6/1/20	Wed 5/2/20 65	112	1474 days	None		6/1 5/2					
	Subletting for demolition works	24 days	Thu 12/12/19	Sat 4/1/20 82,63	179,191,234,143,204,20	,	Calendar Day	dem	12/12 = 4/1					
	Subletting for AR3 access road and UU diversion for Inlet Works No.1	24 days	Thu 12/12/19	Sat 4/1/20 63,82	119	29 days	Calendar Day		12/12 = 4/1					
	Subletting for pre-drilling works	24 days	Thu 12/12/19	Sat 4/1/20 63,82	225,150,180,192,208	136 days	Calendar Day	pd	12/12 = 4/1					
	Subletting for pre-bored H pile works	36 days	Thu 12/12/19	Thu 16/1/20 63,82	151,181,193,209,226	143 days	Calendar Day	hp	12/12 - 16/1					

Critical Task

Milestone

Summary

	Sewage Treatment Facilities				_				The state of the s
ID Key Date	Task Name	Duration	Start	Finish Predecessors	Successors	Total Slack	Task Calendar	trade	Qur 2 Qur 3 Qur 4 Qur 1 Qur 2 Qur 3 Qur 4 Qur
71	Subletting for ELS works for Inlet Works No.1	48 days	Sun 5/1/20	Fri 21/2/20 63,65,82	154	560 days	Calendar Day	ex	5/1 — 21/2
72	Subletting for ELS works for Membrance Facilities Building and other buildings	48 days	Sun 5/1/20	Fri 21/2/20 63,65,82	184,196,213,229	212 days	Calendar Day	ex	5/1 === 21/2
73	Subletting for structural works for Inlet Works Building	48 days	Thu 12/12/19	Tue 28/1/20 63,82	160	635 days	Calendar Day	rc	12/12 28/1
74	Subletting for structural works for Primary Sedimentation Tanks	48 days	Thu 12/12/19	Tue 28/1/20 63,82	100	1885 days	Calendar Day	rc	12/12 28/1
75	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
76	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
77	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
78	Subletting for ABWF works	48 days	Thu 12/12/19	Tue 28/1/20 63,82	176,187,202,223,232,2	240.21132 days	Calendar Day	abwf	12/12 == 28/1
79	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 2002 28/1
80	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
81	Statutory Submission, Submission and Approval	880 days	Mon 18/11/19	Fri 15/4/22		0 days	Calendar Day		18/11
82	Prepare and submit Subcontractor Management Plan (SMP)	24 days	Mon 18/11/19	Wed 11/12/19 2	64,65,67,68,69,70,71,7		Calendar Day		18/11 S 11/12 18/11 23/12
84	Prepare and submit Interface Management Plan Prepare and submit the TTA plans inside Treatment Plant for UU diversion	36 days 24 days	Mon 18/11/19 Mon 18/11/19	Mon 23/12/19 2 Wed 11/12/19 2	118	1921 days 53 days	Calendar Day Calendar Day		18/11 11/12
	and buildings construction	24 days	WOII 10/11/13	Wed 11/12/13/2	110	55 days	Calendar Day		(a.,)
85	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
86	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
87	Prepare and submit combine underground services drawing for PM's review	24 days	Thu 26/12/19	Sat 18/1/20 64	118	15 days	Calendar Day		26/12 = 18/1
	the alignment						,		
88	Prepare and submit method statement for demolition existing structures	24 days	Mon 18/11/19	Wed 11/12/19 2	204,179,191,234,143,2		Calendar Day	dem	18/11 = 11/12
90	Prepare and submit method statement for structural works for buildings	24 days	Mon 18/11/19	Wed 11/12/19 2	470 404 004 440 004 0	1933 days	Calendar Day	rc	18/11 11/12 18/11 23/12
,,	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	179,191,234,143,204,2	Lor, 2 13 uays	Calendar Day	dem	TWITE SWITE
91	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
92	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
93	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
74	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
95	Prepare and submit Settlement and movement monitoring proposal of existing	24 days	Wed 5/2/20	Fri 28/2/20 116		1854 days	Calendar Day		5/2 = 28/2
-06	structures/ services		F-: 47/4/00	Mon 16/0/00 0E0 : 00 :1-		1007 -1	Colonda		170 16/3
96	Prepare and submit design of structure elements of the temporary activated carbon deodourization unit	60 days	Fri 17/1/20	Mon 16/3/20 2FS+60 days		1837 days	Calendar Day		17/1 —— 16/3
97	Prepare of RSE and structural design for alternation and additional (A&A)	180 days	Mon 18/10/21	Fri 15/4/22	223	324 days	Calendar Day		18/10 15/4
	works at Membrane Facilities Building No.1 and Main Power House								
98	Environmental Aspect Submissions	136 days	Mon 18/11/19	Wed 1/4/20		23 days	Calendar Day		18/11 1/4
99	Prepare, submit & approve Site Management Plan for Trip Tricket System	45 days	Mon 18/11/19	Wed 1/1/20 2		1912 days	Calendar Day		18/11 1/1
100	Prepare, submit & approve Waste Management Plan	45 days	Mon 18/11/19	Wed 1/1/20 2		1912 days	Calendar Day		18/11 1/1
101	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
102	Procurement	72 days	Mon 18/11/19	Tue 28/1/20	101	23 days	Calendar Day		18/11 28/1 18/11 29/11
103	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	104 105,106,107,108,109,1	23 days	Calendar Day Calendar Day		30/11 = 1/1/2
105	Prepare, submit and approve the pipe works material	25 days	Thu 12/12/19	Sun 5/1/20 104	123,279,285,286,288,2		Calendar Day	uu	12/12 = 5/1
106	Prepare, submit and approve the pipe water proofing material	25 days	Thu 12/12/19	Sun 5/1/20 104	123,279,285,286,288,2		Calendar Day	uu	12/12 = 5/1
107	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
108 109	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 2 8/1 12/12 2 8/1
110	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	176,187,202,223,232,2	1885 days	Calendar Day Calendar Day	abwf	12/12 28/1
111	BIM	48 days	Thu 6/2/20	Wed 1/4/20	170,107,202,223,232,2	1474 days	None	abwi	6/2 1/4
112	Prepare, submit and approve the proposal of details of Common data	48 days	Thu 6/2/20	Wed 1/4/20 66		1474 days	None		6/2 1/4
113	environment (CDE)	1057.1	35 10/11/10	mi 0.0 to to t		0.1	01 1 D		18/11
113	Construction Works Preliminary Works	1957 days 109 days	Mon 18/11/19 Mon 18/11/19	Thu 27/3/25 Thu 5/3/20		0 days 0 days	Calendar Day Calendar Day		18/11 5/3
115	Initial Survey	24 days	Mon 18/11/19	Sat 14/12/19 2	116	8 days	Normal Working	g Hours	18/11 4/12
116	Condition Survey	30 days	Fri 27/12/19	Tue 4/2/20 64,115	117,94,95	0 days	Normal Workin	-	27/12 🗪 4/2
117	Installation of Monitoring Markers	26 days	Wed 5/2/20	Thu 5/3/20 116	120	0 days	Normal Workin	-	5/2 🔤 5/3
118	Access Road (AR3), B-1	193 days	Mon 20/1/20	Sat 12/9/20 4,84,87		0 days	Normal Workin	-	20/1 12/9
119 120	Site setup and clearance wroks Drainage and Utilities Works	28 days	Mon 20/1/20	Mon 24/2/20 68 Tue 9/6/20 119,117	120 121	9 days	Normal Working		20/1 == 24/2 6/3 ******* 9/6
120 121 KD1A	Roadworks	76 days 80 days	Fri 6/3/20 Wed 10/6/20	Sat 12/9/20 120	41FF	0 days 0 days	Normal Working	-	10/6 12/9
122	Inlet Works No.1, B-2	854 days	Mon 6/1/20	Mon 21/11/22 6		45 days	Normal Workin	-	6/1 21/11
123	Diversion Works (1. Inlet Truck Sewer, Leachate Rising Mains, Sludge	180 days	Mon 6/1/20	Fri 14/8/20 105,106	42FF	74 days	Normal Working		G/1 14/8
124	Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)	40	Man 0/4/00	Cot 19/4/00 00	12500	74	Hours_201909		6/1 = 18/1
124	Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points	12 days 24 days	Mon 6/1/20 Mon 6/1/20	Sat 18/1/20 86 Wed 5/2/20 86,124SS	125SS 127,133,137,134,135,1	74 days	Normal Workin		6/1 = 18/1
126	Diversion of Inlet Truck Sewer (approx. 40m 1800mm dia concrete	146 days	Thu 6/2/20	Mon 3/8/20	121,100,101,104,100,1	84 days	Normal Working	-	6/2 3/8
	pipe, 4 deep manholes and Inlet Reception Chamber)					-	Hours_201909	24	
127	Trench Excavation for 1800mm dia pipeline and manholes	45 days	Thu 6/2/20	Sat 28/3/20 125	128	84 days	Normal Working		6/2 28/3
128	Construct M/H MHA01, MHA02, MHA03, MHA04 and Inlet Reception Chamber	65 days	Mon 30/3/20	Fri 19/6/20 127	129	84 days	Normal Working Hours_2019092		30/3 19/6
129	Lay 1800mm dia concretre pipe	24 days	Sat 20/6/20	Mon 20/7/20 128	130	84 days	Normal Working		20/6 — 20/7
130	Collection to existing Inlet Chamber	12 days	Tue 21/7/20	Mon 3/8/20 129		84 days	Normal Workin	-	21/7 = 3/8
131	Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain	150 days	Thu 6/2/20	Fri 7/8/20		80 days	Normal Working	-	6/2 7/8
132	Diversion of tank drain, approx. 70m 675mm dia conrete pipe and 2 manholes MHD8.5 & MHD9.5)	150 days	Thu 6/2/20	Fri 7/8/20 125	135SS+60 days,134SS+60	80 days	Normal Working Hours_2019092		6/2 7/8
133	Diversion of leachate rising main, CHLC, approx. 24m DN250 DI	60 days	Tue 21/4/20	Fri 3/7/20 125,132SS+60	uays, 10400700	110 days	Normal Working		21/4 3/7
	• • • • • • • • • • • • • • • • • • • •			days			Hours_2019092	24	
134	Diversion of sludge pipe, CHES1 approx. 154m DN250 CI	75 days	Tue 21/4/20	Tue 21/7/20 125,132SS+60		95 days	Normal Working Hours_2019092		21/4 21/7
135	Diversion of sludge pipe, CHES2 approx. 106m DN250 CI	75 days	Tue 21/4/20	days Tue 21/7/20 125,132SS+60		95 days	Normal Working		21/4 21/7
				days			Hours_2019092	24	
136	Diversion of pipelines near Primary Sludge Thickeners (approx. 180m	156 days	Thu 6/2/20	Fri 14/8/20		74 days	Normal Workin		6/2 14/8
137	long 150mm to 375mm concrete pipes) Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with	60 days	Thu 6/2/20	Mon 20/4/20 125	138SS+45 days,140	74 days	Hours_201909		6/2 20/4
131	M/Hs MHD1A, 1B, 1C, 1D & 1E)	ou days	111u 0/2/20	IVIUIT 20/4/20 120	13033743 uays, 140	14 uays	Normal Working Hours_2019092		VII
138	Manholes construction and Pipe laying	60 days	Mon 30/3/20	Sat 13/6/20 137SS+45 days	s 139	100 days	Normal Workin		30/3 13/6
139	Backfilling	25 days	Mon 15/6/20	Wed 15/7/20 138	11100 :	100 days	Normal Working	-	15/6 = 15/7
140	Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with M/Hs MHD5A & 5B)	60 days	Tue 21/4/20	Fri 3/7/20 137	141SS+26 days	74 days	Normal Working Hours_2019092		21/4 3/7
141	Manholes construction and Pipe laying	45 days	Sat 23/5/20	Thu 16/7/20 140SS+26 days	s 142	74 days	Normal Working		23/5 16/7
142 KD1B	Backfilling	25 days	Fri 17/7/20	Fri 14/8/20 141		74 days	Normal Workin		17/7 — 14/8
143	Decommission and Demolition of Existing Faciliates and Structures	240 days	Mon 2/3/20	Fri 18/12/20 6,67,88,90	149	0 days	Normal Working	-	2/3 18/12
144	Primary Sludge Thickening Tank No.1 and No.2	80 days	Mon 2/3/20	Tue 9/6/20	145	0 days	Normal Working	g Hoursdem	2/3 2/3 9/6

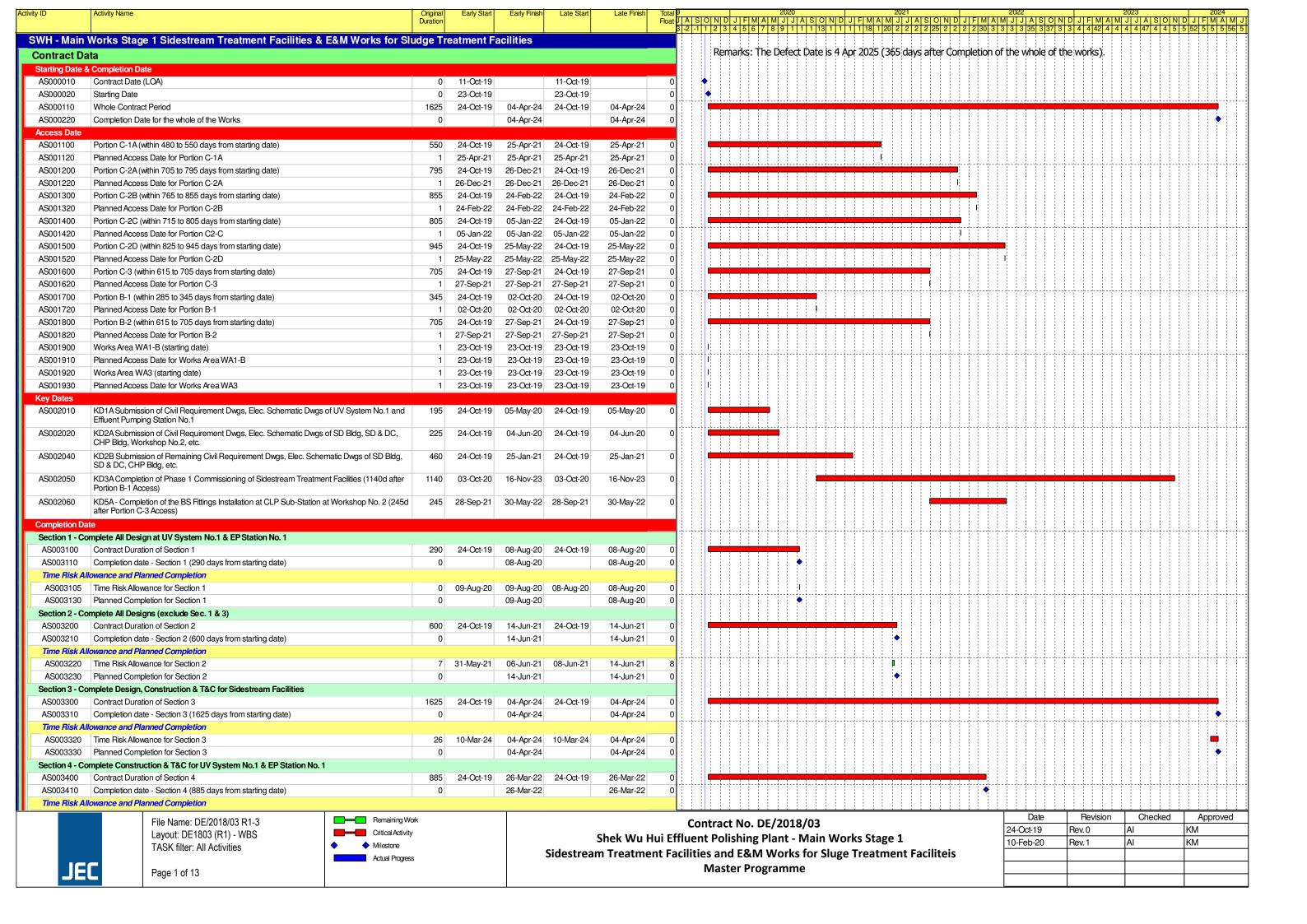
Critical Task Milestone ♦

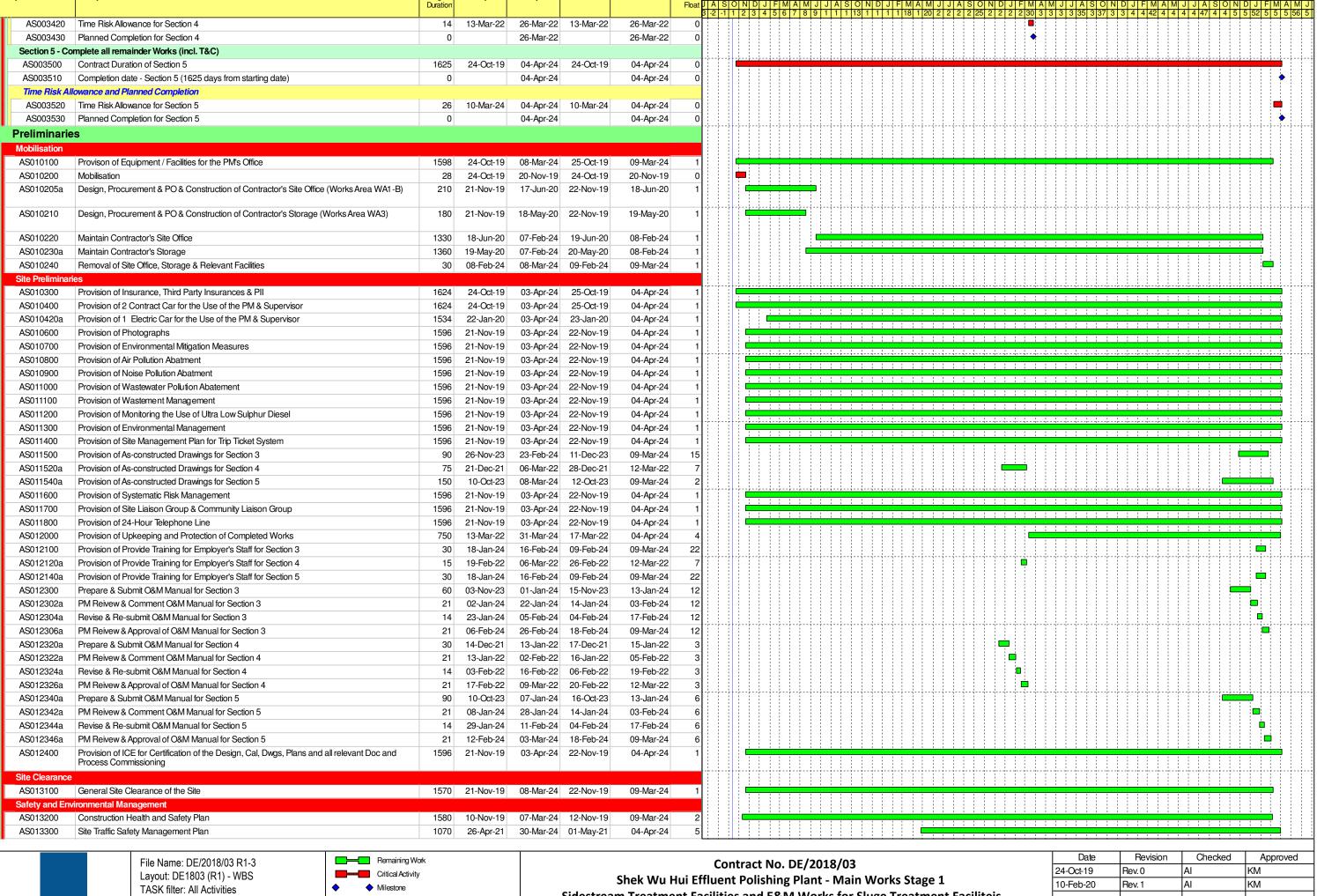
Summary

ID Key Date	r Sewage Treatment Facilities Task Name	Duration	Start	Finish Predecessors	Successors	Total Slack	Task Calendar trade	2020 2021 2022 2023 2024 2025
145	Primary Sludge Pump Pit				146			Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1
145	Septic Tank	60 days 50 days	Wed 10/6/20 Fri 21/8/20	Thu 20/8/20 144 Tue 20/10/20 145	147	0 days 0 days	Normal Working Hourdem Normal Working Hourdem	21/8 222 20/10
147	Diesel Tank	50 days	Wed 21/10/20	Fri 18/12/20 146	147	0 days	Normal Working Hoursdem	21/10 5555 18/12
148	Inlet Works No.1 Building	569 days	Sat 19/12/20	Mon 21/11/22 6		0 days	Normal Working Hou	19/12 21/11
149	Excavate to +6.5mPD (1980sqm excavated soil)	10 days	Sat 19/12/20	Sat 2/1/21 143	150	0 days	Normal Working Hoursex	19/12 2 2/1
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	1,1:0 days	Normal Working Hourthp	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	rs 154	55 days	Normal Working sp	23/3 30/6
153	grouting Pile Load Test	26 days	Thu 5/8/21	Fri 3/9/21 151	154	0 days	Hours_20190924 Normal Working Hourelt	5/8 🖘 3/9
154	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
155	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 louitex	4/9 52 21/9
	2xxxxxx to reterm 2 and or maining retraining (coccupin executated con)	.o dayo	Out 1/0/21	1 40 2 1/0/2 1	1.00	o dayo	Hours_20190924	
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
157	SOII)	45 days	Tue 40/40/04	Thu 4/44/04 450	158	0 40.00	Hours_20190924	19/10 □ 4/ 11
137	Excavate to +0.0mPD and S3 wailing / strutting (1280sqm excavated soil)	15 days	Tue 19/10/21	Thu 4/11/21 156	106	0 days	Normal Working ex Hours_20190924	19/10 - 4/11
158	Excavate to -3.0mPD and S4 wailing / strutting (1920sqm excavated	20 days	Fri 5/11/21	Sat 27/11/21 157	159	0 days	Normal Working ex	5/11 🚥 27/11
150	soil)						Hours_20190924	
159	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 [©] 6/12 5/8
160 161	R.C. Structure works	296 days	Thu 5/8/21	Thu 4/8/22 73,107,108		0 days	Normal Working Hourerc	5/8 8/12
162	Phase A (floor area 585 sqm) Rebar fix and formwork and concreting for the pile cap (G/F)	105 days 40 days	Thu 5/8/21 Thu 5/8/21	Wed 8/12/21 Mon 20/9/21 151	163	66 days 66 days	Normal Working Hourerc Normal Working Hourerc	5/8 20/9
163	Rebar fix and formwork and concreting not the pile cap (0/1) 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 Hoursrc	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
165	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
166	Rebar fix and formwork and concreting for the Inlet Works structure	26 days	Tue 7/12/21	Sat 8/1/22 159	167	0 days	Normal Working rc	7/12 🔤 8/1
167	upto level -3.0mPD and removal of S4 wailing/strutting	44.1	Mc - 40/1/00	Tue 05/4/00 400	400	0 -1	Hours_20190924	10/1 🖸 25/1
107	Rebar fix and formwork and concreting for the Inlet Works structure upto level +0.0mPD and removal of S3 and S2 wailing/strutting	14 days	Mon 10/1/22	Tue 25/1/22 166	168	0 days	Normal Working rc 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
	upto level +5.0mPD and removal of S1 wailing/strutting	·					Hours_20190924	
169	Apply waterproofing membrance and backfilling	14 days	Tue 15/2/22	Wed 2/3/22 168	170	0 days	Normal Working Hours	15/2 🖾 2/3
170	Rebar fix and formwork and concreting for the Inlet Works structure of ground floor levels	35 days	Thu 3/3/22	Wed 13/4/22 169,164	171	0 days	Normal Working rc Hours_20190924	3/3 🔤 13/4
171	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
170	1/F levels (Phase B +20.11mPD and Phase C +13.45mPD)	25 :	14, 1 ==	F-: 17/0/07	470	0 :	Hours_20190924	
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	25/5 🔼 17/6
173	Rebar fix and formwork and concreting for the Inlet Works structure of R/F levels (Phase B +27.50mPD and Phase C +25.80mPD)	20 days	Sat 18/6/22	Tue 12/7/22 172	174	0 days	Normal Working rc Hours_20190924	18/6 [™] 12/7
174 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	13/7 🖾 4/8
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 Hours_20190924	4/8 ♦
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	Primary Sedimentation Tanks, B-3	1115 days	Mon 18/11/19	Wed 23/8/23 8		0 days	Normal Working Hou	18/11
178	Operation of the Existing Primary sedimentation Tanks	615 days	Mon 18/11/19	Sat 11/12/21 2	179	0 days	None	18/11
179	Decommission and Demolition of existing primary sedimentation tanks no. 1 &	45 days	Mon 13/12/21	Wed 9/2/22 67,88,90,178	180	0 days	Normal Working dem Hours_20190924	13/12 5/22 9/2
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	10/2 553 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		Normal Working Hourshp	26/3 8333333 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	rs 184	0 days	Normal Working Hours	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	2/8 == 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	3/9 555 28/10
185 KD1D	R.C. Structure works	92 days	Sat 29/10/22	Mon 20/2/23 184	186,187,44FF,188	0 days	Normal Working Hours rc	29/10 20/2
186 KD1D	Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Mon 20/2/23	Mon 20/2/23 185	44FF	0 days	Normal Working Hours	20/2 ♦ 21/2 23/8
187 SW1 188 SW1	ABWF works Flowmeter Chamber no.1	150 days 60 days	Tue 21/2/23 Tue 21/2/23	Wed 23/8/23 185,110,78 Sat 6/5/23 185	55FF 55FF	71 days 161 days	Normal Working Houreabwf None	21/2 25/6
189 SW I	Bioreactors No.2A & 2B, B-4	1106 days	Mon 18/11/19	Sat 12/8/23 9	סטרר	0 days	Normal Working Hou	18/11
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	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	192	0 days	Normal Working Hoursdem	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 22/6
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	-	Normal Working Hourshp	15/6 18/11
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	rs 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 Hourelt	19/11 🖘 18/12
196	ELS works (18100cu.m soil with 4 layers wailing / strutting)	125 days	Mon 20/12/21	Fri 27/5/22 193,194,72,19		0 days	Normal Working Hoursex	20/12 27/5
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
198 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
200 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
-	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
201 SW1		180 days	Tue 3/1/23	Sat 12/8/23 197,110,78	55FF	80 days	Normal Working Hoursabwf	6/1
201 SW1 202 SW1	ABWF works	0.44		Thu 9/3/23 10		0 days 0 days	Normal Working Hou Normal Working dem	6/1 5 21/1
201 SW1 202 SW1 203	Membrane Facilities Building, B-5	941 days	Mon 6/1/20 Mon 6/1/20		205	o uayo	recinal recinity ucil	·
201 SW1 202 SW1 203 204	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial)	14 days	Mon 6/1/20	Tue 21/1/20 88,67,90	205		Hours_20190924	
201 SW1 202 SW1 203	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4				206	0 days	Hours_20190924 Normal Working sp Hours_20190924	22/1 5555 11/3
201 SW1 202 SW1 203 204 205 206	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day)	14 days 40 days 23 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93	206	0 days	Normal Working sp Hours_20190924 Normal Working Houreex	12/3 🖘 8/4
201 SW1 202 SW1 203 204 205 206 207	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks	14 days 40 days 23 days 45 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90	206 207 208	0 days 0 days	Normal Working sp Hours_20190924 Normal Working Hoursex Normal Working Hoursdem	12/3 50 8/4 9/4 5556
201 SW1 202 SW1 203 204 205 206 207 208	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks Predrilling (83nrs, 8rigs, 4days/drillhole/rig)	14 days 40 days 23 days 45 days 42 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20 Sat 6/6/20	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90 Mon 27/7/20 207,69	206 207 208 209	0 days 0 days 0 days	Normal Working sp Hours_20190924 Normal Working Hoursex Normal Working Hoursdem Normal Working Hourspd	12/3 5 8/4 9/4 555/6 6/6 555 27/7
201 SW1 202 SW1 203 204 205 206 206 207 208 209	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks Predrilling (83nrs, 8rigs, 4days/drillhole/rig) Pre-bored H piles (224nos, 8rigs, 5days/pile/rig)	14 days 40 days 23 days 45 days 42 days 140 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20 Sat 6/6/20 Tue 28/7/20	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90 Mon 27/7/20 207,69 Wed 13/1/21 208,70	206 207 208 209 211,210,193	0 days 0 days 0 days 0 days	Normal Working Hours_20190924 Normal Working Hoursex Normal Working Hoursdem Normal Working Hourspd Normal Working Hourshp	12/3 5/8 8/4 9/4 5/5 5/6 6/6 5/5 27/7 28/7 5/5 13/1
201 SW1 202 SW1 203 204 205 206 207 208 209 210	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks Predrilling (83nrs, 8rigs, 4days/drillhole/rig) Pre-bored H piles (224nos, 8rigs, 5days/pile/rig) Install S1 wailing / strutting	14 days 40 days 23 days 45 days 42 days 140 days 10 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20 Sat 6/6/20 Tue 28/7/20 Thu 14/1/21	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90 Mon 27/7/20 207,69 Wed 13/1/21 208,70 Mon 25/1/21 209	206 207 208 209 211,210,193 213	0 days 0 days 0 days 0 days 16 days	Normal Working Hours_20190924 Normal Working Hoursex Normal Working Hoursdem Normal Working Hourspd Normal Working Hourshp Normal Working Hoursex	12/3 53 8/4 9/4 5555 5/6 6/6 5555 27/7 28/7 555555555555555555555555555555555555
201 SW1 202 SW1 203 204 205 206 207 208 209 210 211	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks Predrilling (83nrs, 8rigs, 4days/drillhole/rig) Pre-bored H piles (224nos, 8rigs, 5days/pile/rig) Install S1 wailing / strutting Pile Load Test	14 days 40 days 23 days 45 days 42 days 140 days 10 days 26 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20 Sat 66/20 Tue 28/7/20 Thu 14/1/21 Thu 14/1/21	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90 Mon 27/7/20 207,69 Wed 13/1/21 208,70 Mon 25/1/21 209 Tue 16/2/21 209	206 207 208 209 211,210,193	0 days 0 days 0 days 0 days 16 days 0 days	Normal Working Hours_20190924 Normal Working Hoursex Normal Working Hoursdem Normal Working Hourspd Normal Working Hourshp Normal Working Hoursex Normal Working Hoursex	12/3 55 8/4 9/4 555 5/6 6/6 555 27/7 28/7 555 13/1 14/1 = 25/1 14/1 55 16/2
201 SW1 202 SW1 203 204 205 206 206 207 208 209 210	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks Predrilling (83nrs, 8rigs, 4days/drillhole/rig) Pre-bored H piles (224nos, 8rigs, 5days/pile/rig) Install S1 wailing / strutting	14 days 40 days 23 days 45 days 42 days 140 days 10 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20 Sat 6/6/20 Tue 28/7/20 Thu 14/1/21	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90 Mon 27/7/20 207,69 Wed 13/1/21 208,70 Mon 25/1/21 209	206 207 208 209 211,210,193 213	0 days 0 days 0 days 0 days 16 days	Normal Working Hours_20190924 Normal Working Hoursex Normal Working Hoursem Normal Working Hoursem Normal Working Hourse Normal Working Hoursex Normal Working Hourse Normal Working Hourse Normal Working Hourse	12/3 55 8/4 9/4 555 5/6 6/6 555 27/7 28/7 55511 14/1 = 25/1
201 SW1 202 SW1 203 204 205 206 206 207 208 209 210 211 212 213	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks Predrilling (83nrs, 8rigs, 4days/drillhole/rig) Pre-bored H piles (224nos, 8rigs, 5days/pile/rig) Install S1 wailing / strutting Pile Load Test ELS works Excavate to level +2mPD and install S2 wailing / strutting (8090cu.m soil, 250cu.m/day)	14 days 40 days 23 days 45 days 42 days 140 days 10 days 26 days 45 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20 Sat 6/6/20 Tue 28/7/20 Thu 14/1/21 Thu 14/1/21 Wed 17/2/21	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90 Mon 27/7/20 207,69 Wed 13/1/21 208,70 Mon 25/1/21 209 Tue 16/2/21 209 Thu 9/9/21 211 Tue 13/4/21 210,72	206 207 208 209 211,210,193 213 212	0 days 0 days 0 days 0 days 0 days 16 days 0 days 0 days 0 days	Normal Working Hours_20190924 Normal Working Hoursex Normal Working Hoursdem Normal Working Hourspd Normal Working Hourspd Normal Working Hoursex Normal Working Hours!t None Normal Working Hours	12/3 55 8/4 9/4 5555 5/6 6/6 5555 27/7 28/7 5555 13/1 14/1 = 25/1 14/1 55 16/2 17/2 5555 13/4
201 SW1 202 SW1 203 204 205 206 207 208 209 210 211 212 213 214	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks Predrilling (83nrs, 8rigs, 4days/drillhole/rig) Pre-bored H piles (224nos, 8rigs, 5days/pile/rig) Install S1 wailing / strutting Pile Load Test ELS works Excavate to level +2mPD and install S2 wailing / strutting (8090cu.m soil, 250cu.m/day) Installation of sheetpile, FSP-IV 380sq.m (50sq.m/rig/day, 1rigs)	14 days 40 days 23 days 45 days 42 days 140 days 10 days 26 days 169 days 45 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20 Sat 6/6/20 Tue 28/7/20 Thu 14/1/21 Thu 14/1/21 Wed 17/2/21 Wed 14/4/21	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90 Mon 27/7/20 207,69 Wed 13/1/21 208,70 Mon 25/1/21 209 Tue 16/2/21 209 Thu 9/9/21 211 Tue 13/4/21 210,72 Thu 29/4/21 213	206 207 208 209 211,210,193 213 212 214 215	0 days 0 days 0 days 0 days 0 days 16 days 0 days 0 days 0 days 0 days	Normal Working Hours_20190924 Normal Working Hoursex Normal Working Hoursed Normal Working Hoursed Normal Working Hourse Normal Working Hoursex Normal Working Hourset Normal Working Hourse Normal Working Hourse Normal Working Hourse Normal Working Hourse Hours_20190924 Normal Working Hourse	12/3 55 8/4 9/4 555 5/6 6/6 555 27/7 28/7 555 13/1 14/1 = 25/1 14/1 55 16/2 17/2 55 13/4 14/4 55 29/4
201 SW1 202 SW1 203 204 205 206 207 208 209 210 211 212 213	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks Predrilling (83nrs, 8rigs, 4days/drillhole/rig) Pre-bored H piles (224nos, 8rigs, 5days/pile/rig) Install S1 wailing / strutting Pile Load Test ELS works Excavate to level +2mPD and install S2 wailing / strutting (8090cu.m soil, 250cu.m/day)	14 days 40 days 23 days 45 days 42 days 140 days 10 days 26 days 45 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20 Sat 6/6/20 Tue 28/7/20 Thu 14/1/21 Thu 14/1/21 Wed 17/2/21	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90 Mon 27/7/20 207,69 Wed 13/1/21 208,70 Mon 25/1/21 209 Tue 16/2/21 209 Thu 9/9/21 211 Tue 13/4/21 210,72	206 207 208 209 211,210,193 213 212	0 days 0 days 0 days 0 days 0 days 16 days 0 days 0 days 0 days	Normal Working Hours_20190924 Normal Working Hoursex Normal Working Hoursed Normal Working Hoursed Normal Working Hoursed Normal Working Hoursex Normal Working Hours!t None Normal Working Hours_20190924 Normal Working Hoursp Normal Working Hoursp Normal Working	12/3 55 8/4 9/4 5555 5/6 6/6 5555 27/7 28/7 5555 13/1 14/1 = 25/1 14/1 55 16/2 17/2 5555 13/4
201 SW1 202 SW1 203 204 205 206 207 208 209 210 211 212 213 214	Membrane Facilities Building, B-5 Decommission and Demolition of existing final sedimentation tanks no. 3 & 4 (Partial) Installation of sheetpile, FSP-IV 2460sq.m & FSP-II 1680sq.m (50sq.m/rig/day, 2rigs) with toe grout Excavation to level +5.5mPD (5700cu.m soil, 250cu.m/day) Demolition of remaining final sedimentation tanks Predrilling (83nrs, 8rigs, 4days/drillhole/rig) Pre-bored H piles (224nos, 8rigs, 5days/pile/rig) Install S1 wailing / strutting Pile Load Test ELS works Excavate to level +2mPD and install S2 wailing / strutting (8090cu.m soil, 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 40 days 23 days 45 days 42 days 140 days 10 days 26 days 169 days 45 days	Mon 6/1/20 Wed 22/1/20 Thu 12/3/20 Thu 9/4/20 Sat 6/6/20 Tue 28/7/20 Thu 14/1/21 Thu 14/1/21 Wed 17/2/21 Wed 14/4/21	Tue 21/1/20 88,67,90 Wed 11/3/20 204 Wed 8/4/20 205,92,93 Fri 5/6/20 206,67,88,90 Mon 27/7/20 207,69 Wed 13/1/21 208,70 Mon 25/1/21 209 Tue 16/2/21 209 Thu 9/9/21 211 Tue 13/4/21 210,72 Thu 29/4/21 213	206 207 208 209 211,210,193 213 212 214 215	0 days 0 days 0 days 0 days 0 days 16 days 0 days 0 days 0 days 0 days	Normal Working Hours_20190924 Normal Working Hoursex Normal Working Hoursed Normal Working Hoursed Normal Working Hourse Normal Working Hoursex Normal Working Hourset Normal Working Hourse Normal Working Hourse Normal Working Hourse Normal Working Hourse Hours_20190924 Normal Working Hoursep	12/3 55 8/4 9/4 555 5/6 6/6 555 27/7 28/7 555 13/1 14/1 = 25/1 14/1 55 16/2 17/2 55 13/4 14/4 55 29/4

First Programme

ivil Works for S	Sewage Treatment Facilities							
ID Key Date	Task Name	Duration	Start	Finish Predecessors	Successors	Total Slack	Task Calendar trade	2020 2021 2021 2021 2021 2021 2022 2023 2024 2021 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	2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr3 Qtr4
	160cu.m/day)	oo aayo	WGG 1-7/7/21	146 1770/21 210	210	o dayo	Hours_20190924	
	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	
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
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 ♦
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 Hours rc	26/1 25/6
D1G	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 ♦
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
	SAS Pumping Station, B-6	455 days	Wed 20/5/20	Thu 25/11/21 11		0 days	Normal Working Hou	20/5
	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 56/6
	Pre-bored H piles (12nos, 1rigs, 5days/pile/rig)	•	Mon 8/6/20	Tue 18/8/20 225,70	227,181,228	-	Normal Working Hourshp	8/6 52525 18/8
		60 days				0 days		19/8 🔼 19/9
	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 Hourssp	
	Pile Load Test	26 days	Wed 19/8/20	Thu 17/9/20 226	229	2 days	Normal Working HoureIt	19/8 17/9
	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
KD1H	R.C. Structure works	186 days	Mon 21/12/20	Mon 9/8/21 77,107,108,22	29 231,232,48FF,219	0 days	Normal Working Hourerc	21/12
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 ♦
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
	Ancillary Structures, B-7	503 days	Mon 7/9/20	Sat 21/5/22 12		5 days	Normal Working Hou	7/9 21/5
	Demolition of Existing Faciliates and Structures (leachate pump pit & pumping	120 days	Mon 7/9/20	Sat 30/1/21 67,88,90	235,241,248,254,260,260	6,25 days	Normal Working dem	7/9 30/1
	station)	•					Hours_20190924	
	Chemical System No.1	168 days	Mon 1/2/21	Thu 26/8/21 234		5 days	Normal Working Hou	1/2 26/8
	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
	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
KD1J	R.C. structure works	45 days	Mon 15/3/21	Mon 10/5/21 237	239,50FF,244,240	0 days	Normal Working Hours rc	15/3 5222 10/5
KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		Mon 10/5/21	Mon 10/5/21 238	50FF	215 days	Normal Working	10/5
וען טו	Allow access to Contractor DE/2010/04 for Exivi installation and T&C WORKS	0 days	IVIOTI 10/0/21	WOT 10/3/21/230	JUI 1	210 uays	Hours_20190924	
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
-	Chemical System No.2		Thu 4/3/21	Thu 21/10/21 234	001 1		-	4/3 21/10
		189 days			242	5 days	Normal Working House	4/3 20/3
	Excavation for Raft Footing (100cu.m)	15 days	Thu 4/3/21	Sat 20/3/21 237	243	5 days	Normal Working Hoursex	
	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
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 5555 5/7
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	
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
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
	Fire Services Sprinkler Pumping Room	220 days	Sat 10/4/21	Mon 3/1/22 234		5 days	Normal Working Hou	10/4
	Excavation for Raft Footing (800cu.m)	45 days	Sat 10/4/21	Thu 3/6/21 243	250	5 days	Normal Working Houreex	10/4 3/6
	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
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 \$2222 13/9
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 ♦
	The world so so the second of B2/2010/01101 Earl motalianen and 100 world	o dayo			55	dayo	Hours_20190924	
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
1	Temporary Chemical Dosing System	191 days	Tue 22/6/21	Thu 10/2/22 234		5 days	Normal Working Hou	22/6
5	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
5	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
KD1J						-	-	14/9 5 21/10
	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	
8 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 💠
9 SW1	ABWF works + BS works	00 days	F=: 00/40/04	Thu 40/0/00 440 70 057	55FF	FOE days	Hours_20190924	22/10 10/2
		90 days	Fri 22/10/21	Thu 10/2/22 110,78,257	55FF	525 days	Normal Working Hoursabwf	
)	Fire Hydrant and Booster Pump Room	177 days	Fri 13/8/21	Thu 17/3/22 234		5 days	Normal Working Hou	
	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
	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
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
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 ♦
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
	Emergency Generator House	163 days	Wed 6/10/21	Tue 26/4/22 234		5 days	Normal Working Hou	6/10 26/4
	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
	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
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 Hours rc	26/11 553 3/1
KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			Mon 3/1/22 269,263	50FF		· ·	3/1 ♦
נוטא	Anow access to Contractor DE/2018/04 for Earn installation and T&C Works	0 days	Mon 3/1/22	IVIUI1 3/1/22 209	JUFF	20 days	Normal Working Hours_20190924	vi . ▼
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
OWT	Deodorization System No.1 and No.3A	149 days	Tue 16/11/21	Sat 21/5/22 234	-21.	5 days	Normal Working Hou	16/11 21/5
	Excavation for Raft Footing (400cu.m)			Wed 8/12/21 268	274	-		16/11 8/12
	,	20 days	Tue 16/11/21			5 days	Normal Working House	9/12 24/12
	Plate load test	14 days	Thu 9/12/21	Fri 24/12/21 273	275	5 days	Normal Working Hours	
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
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 ♦
SW1	ADME weeks a DC weeks	00 1	Th., 07/4/00	Cat 24/5/20 275	FFFF	445 dece	Hours_20190924	27/4
-	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
	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
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 (****************** 3/9
KD1I	approx. 133m DN800 D.I.)	100 1	F-1 //0/04	0-1-20/1/04 10 07 00 07	70 4055 204	0 4	Hours_20190924	40 2222222 2014
	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
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
	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
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 Houreuu	24/2
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 Houreuu	29/6
SW2	Drainage	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
SW2	Sewerage	550 days	Mon 29/6/20		ay: 289FS-100 days,56FF	0 days	Normal Working Hoursuu	29/6
SW2	Waterworks	550 days	Mon 29/6/20	Fri 6/5/22 283SS+101 da		0 days	Normal Working Hoursuu	29/6
SW2							-	29/6 6/5
	Cable Ducts	550 days	Mon 29/6/20		ay: 289FS-100 days,56FF	0 days	Normal Working Hours	
KD3A	Roadworks	540 days	Fri 31/12/21	Sat 28/10/23 285FS-100 da	yso3FF	0 days	Normal Working Hours	
	Landscaping Works	854 days	Wed 11/5/22	Thu 27/3/25 16		0 days	Normal Working Hou	11/5
SW3	Irrigation System	120 days	Wed 11/5/22	Fri 30/9/22 287FS+2 days		0 days	Normal Working Hoursuu	11/5
	Hard Landscaping Works	220 days	Mon 3/10/22	Mon 3/7/23 291,80	293,57FF	0 days	Normal Working Hoursland	3/10
292 SW3 293 SW3 294 DLP	Soft Landscaping Works	220 days	Tue 4/7/23	Tue 26/3/24 292,80	294,57FF	0 days	Normal Working Houreland	4/7 26/3 27/3 27/3





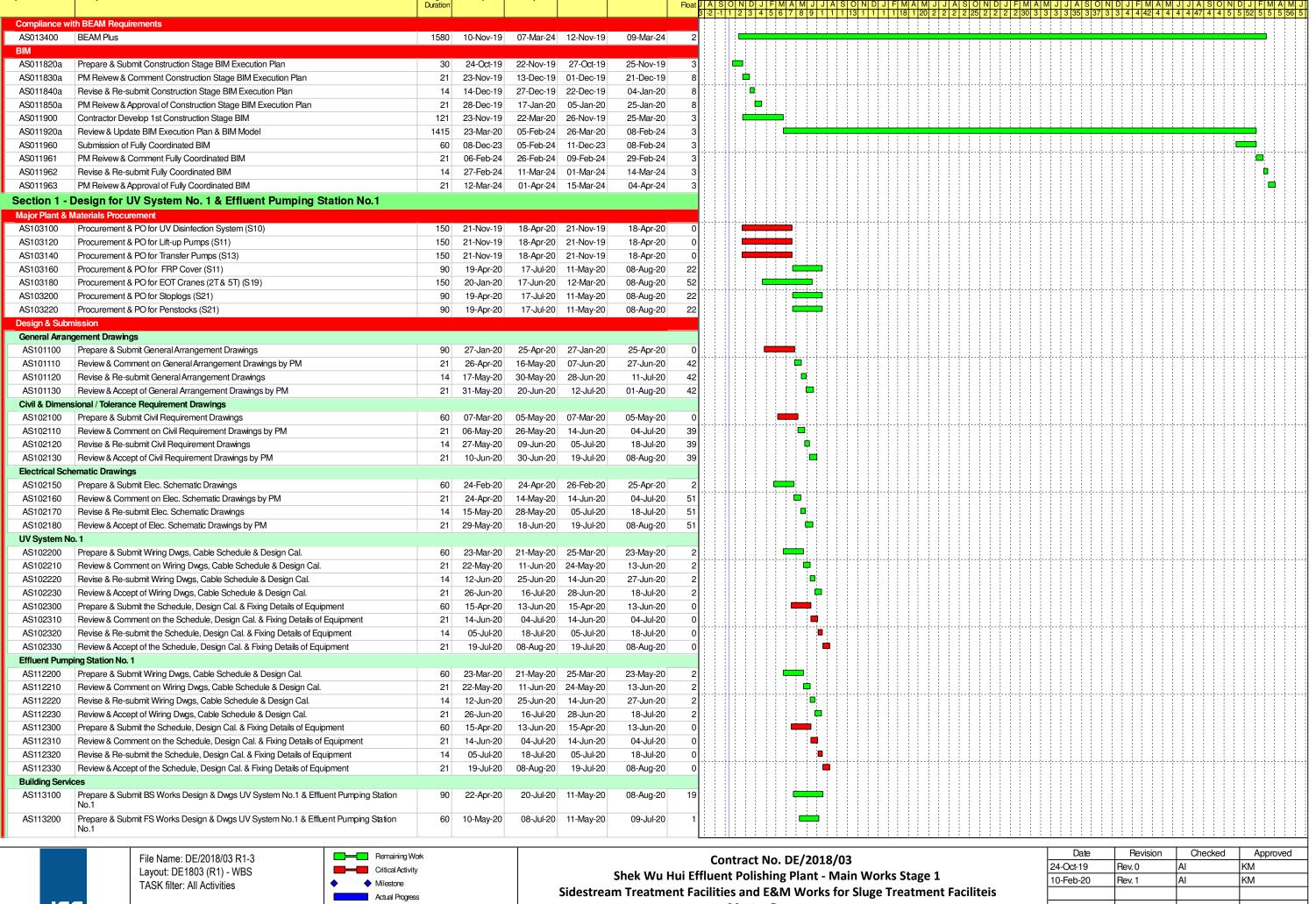


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Actual Progress

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

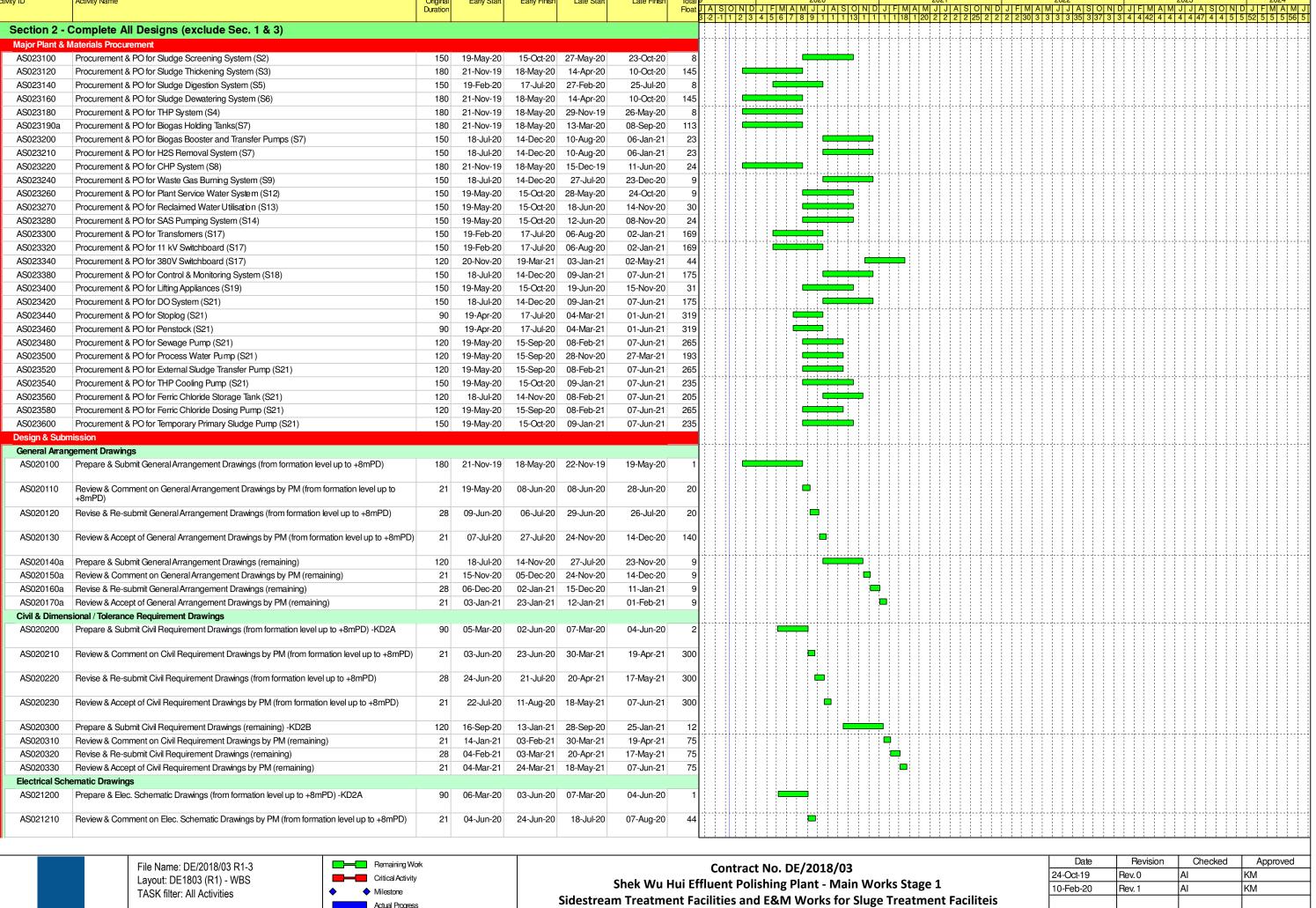


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Master Programme

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



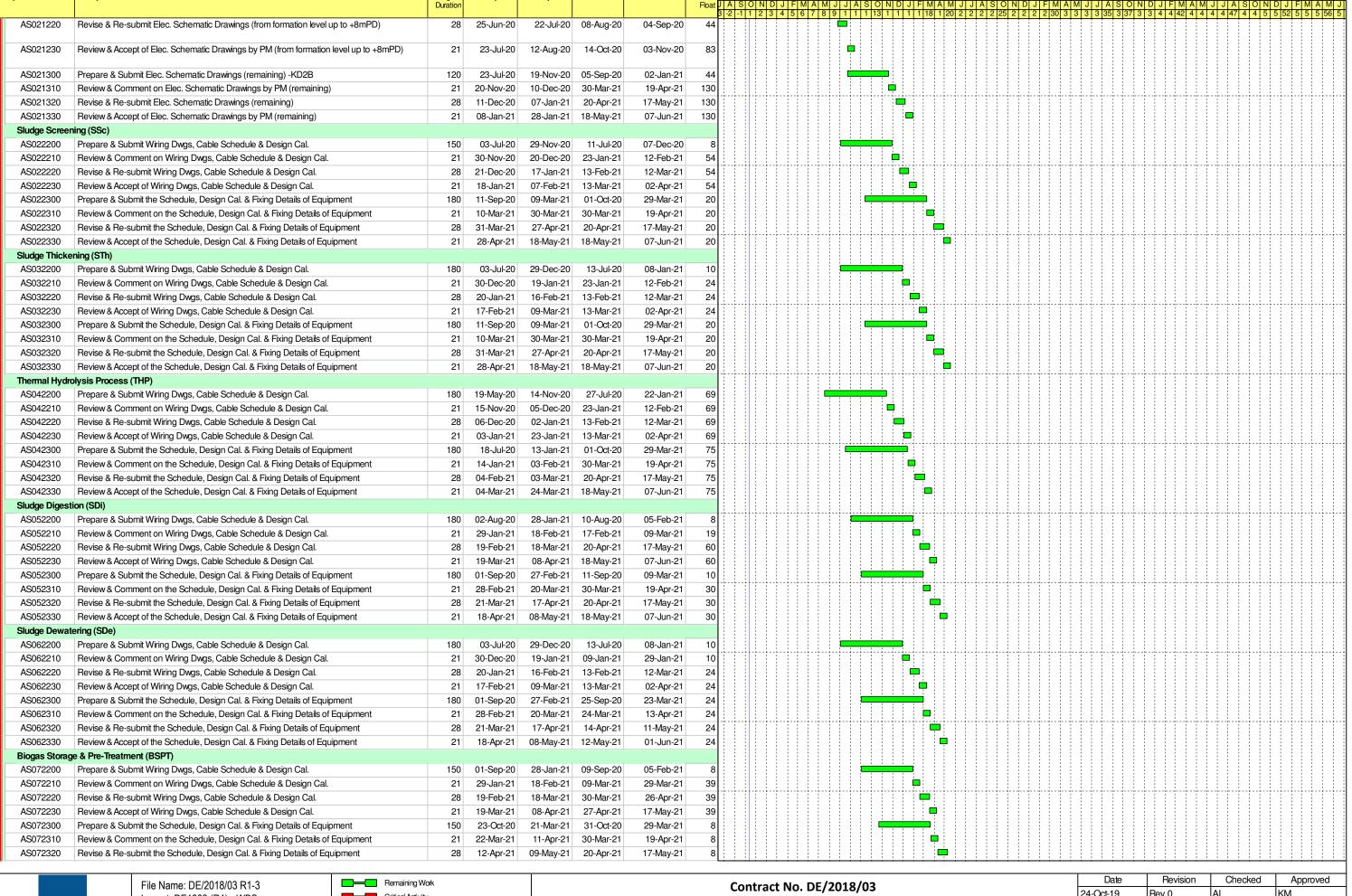


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Master Programme

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





Layout: DE1803 (R1) - WBS

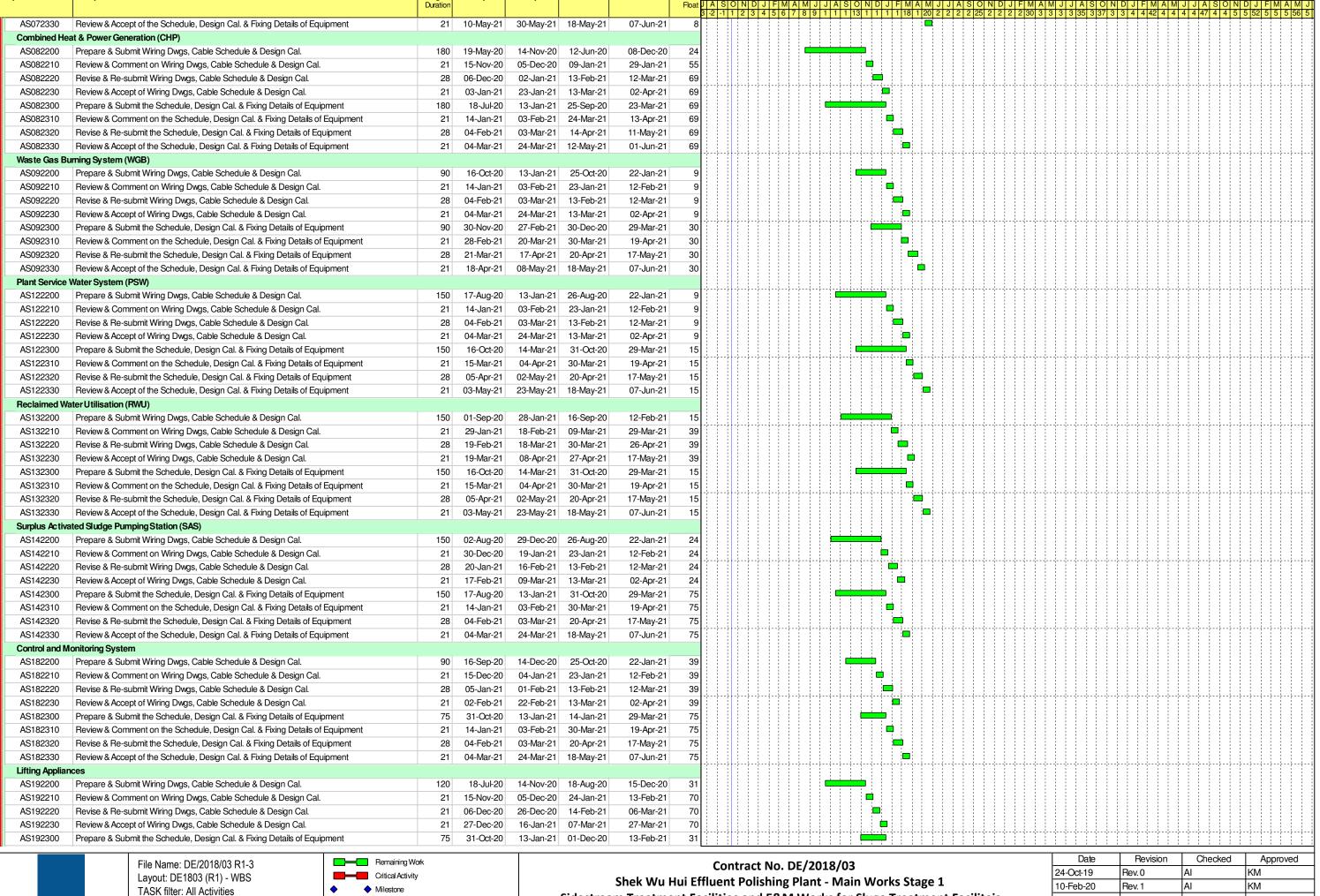
TASK filter: All Activities

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

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



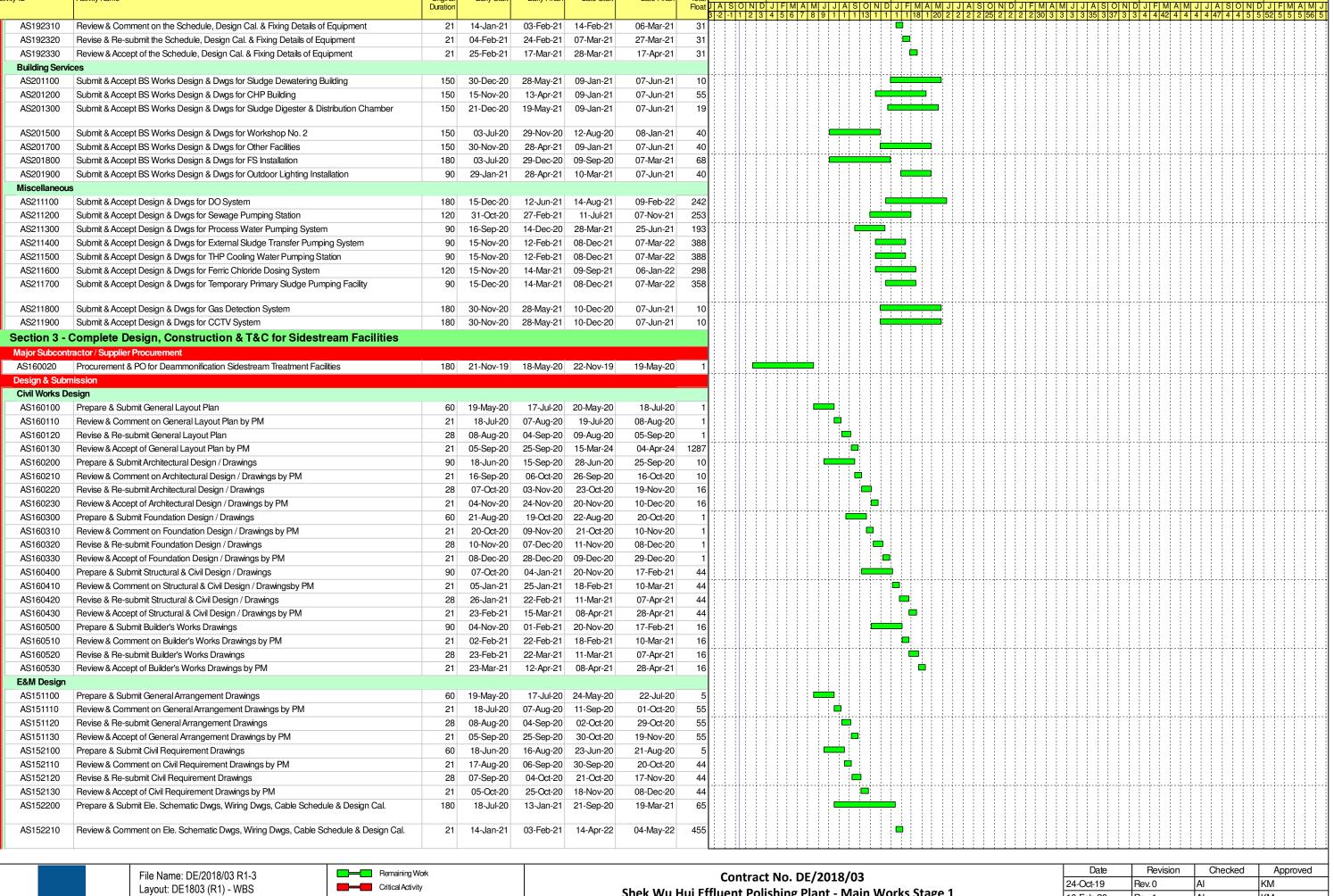


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Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

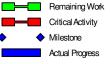
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24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM





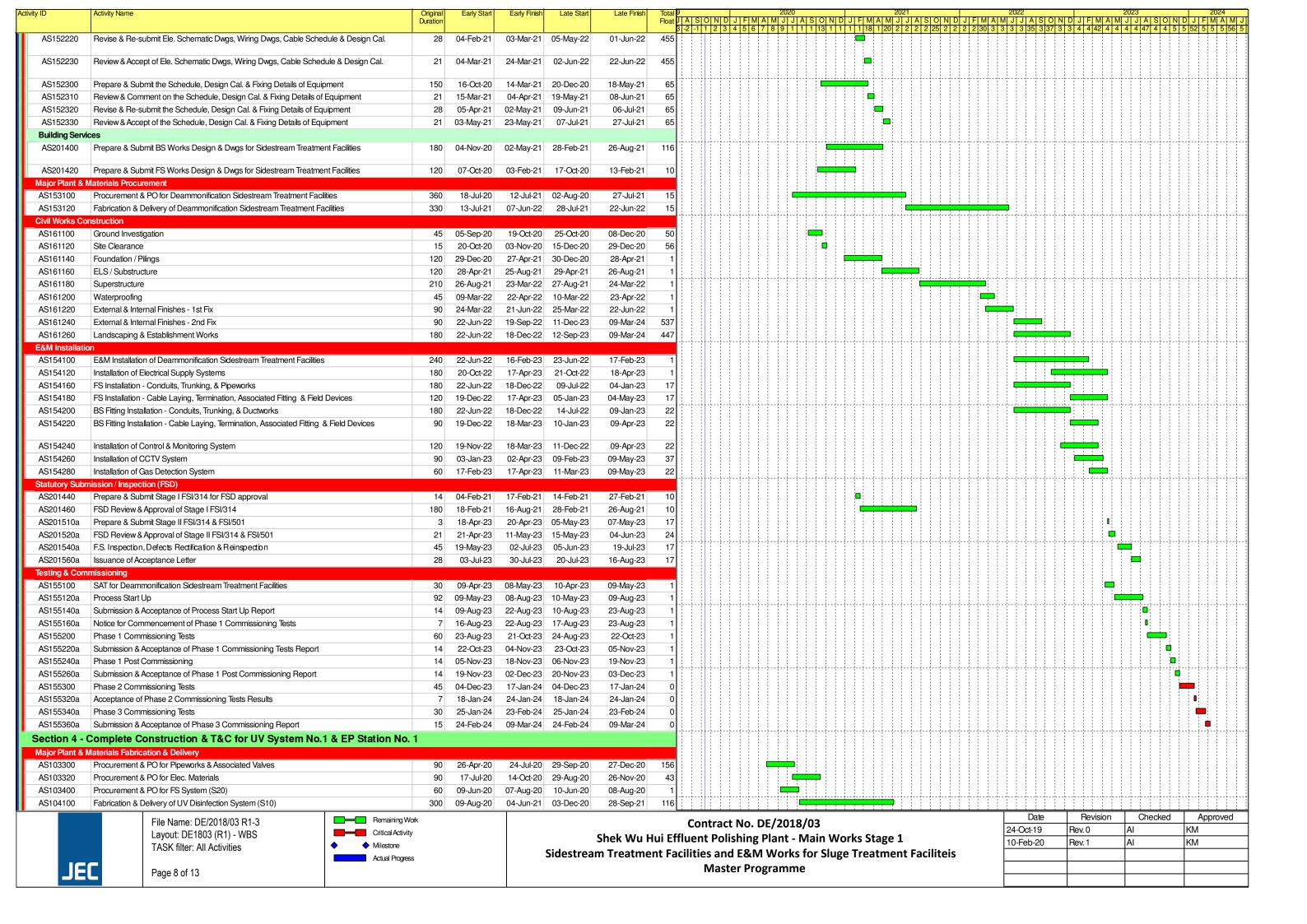
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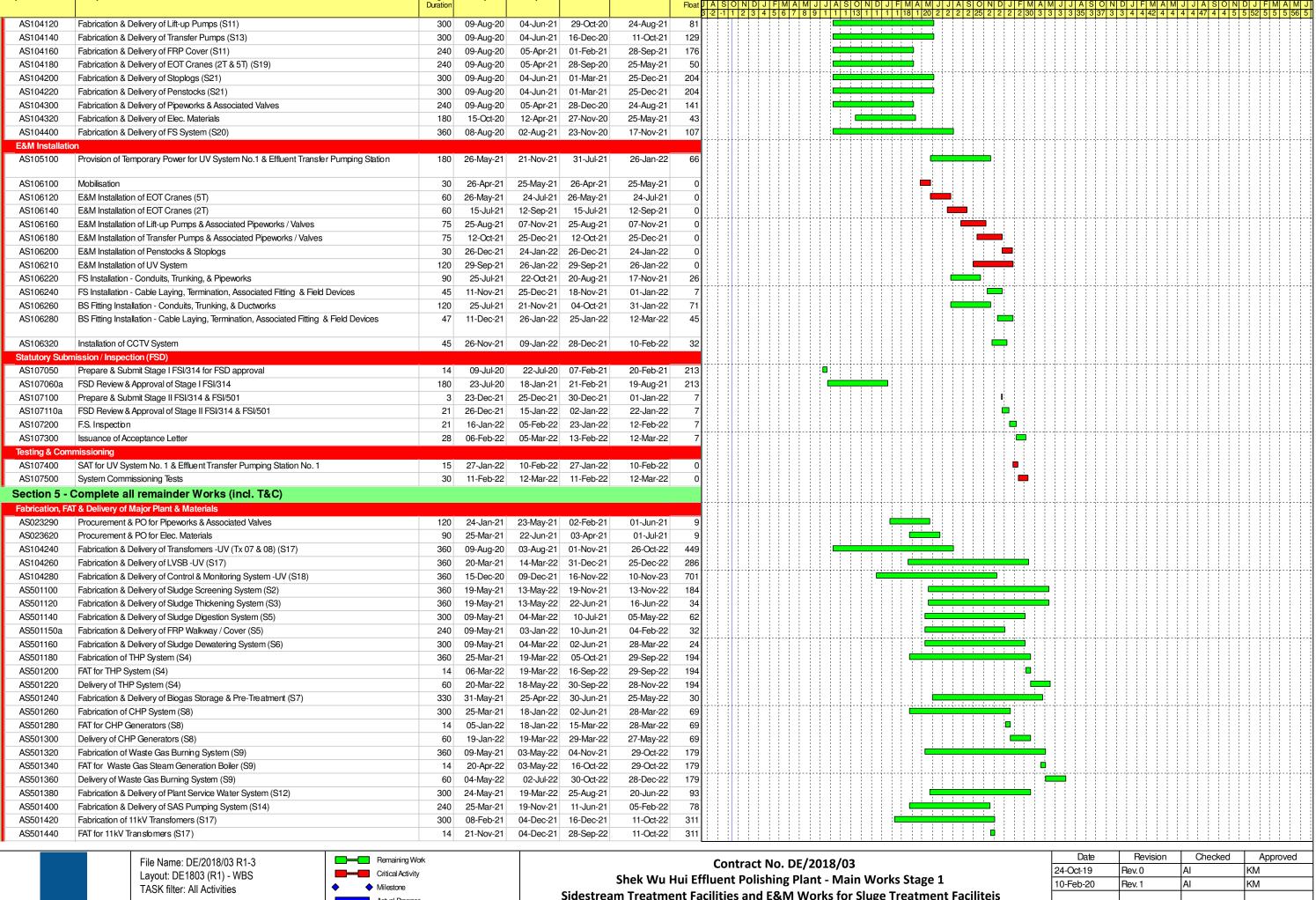
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Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

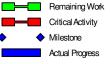
Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM





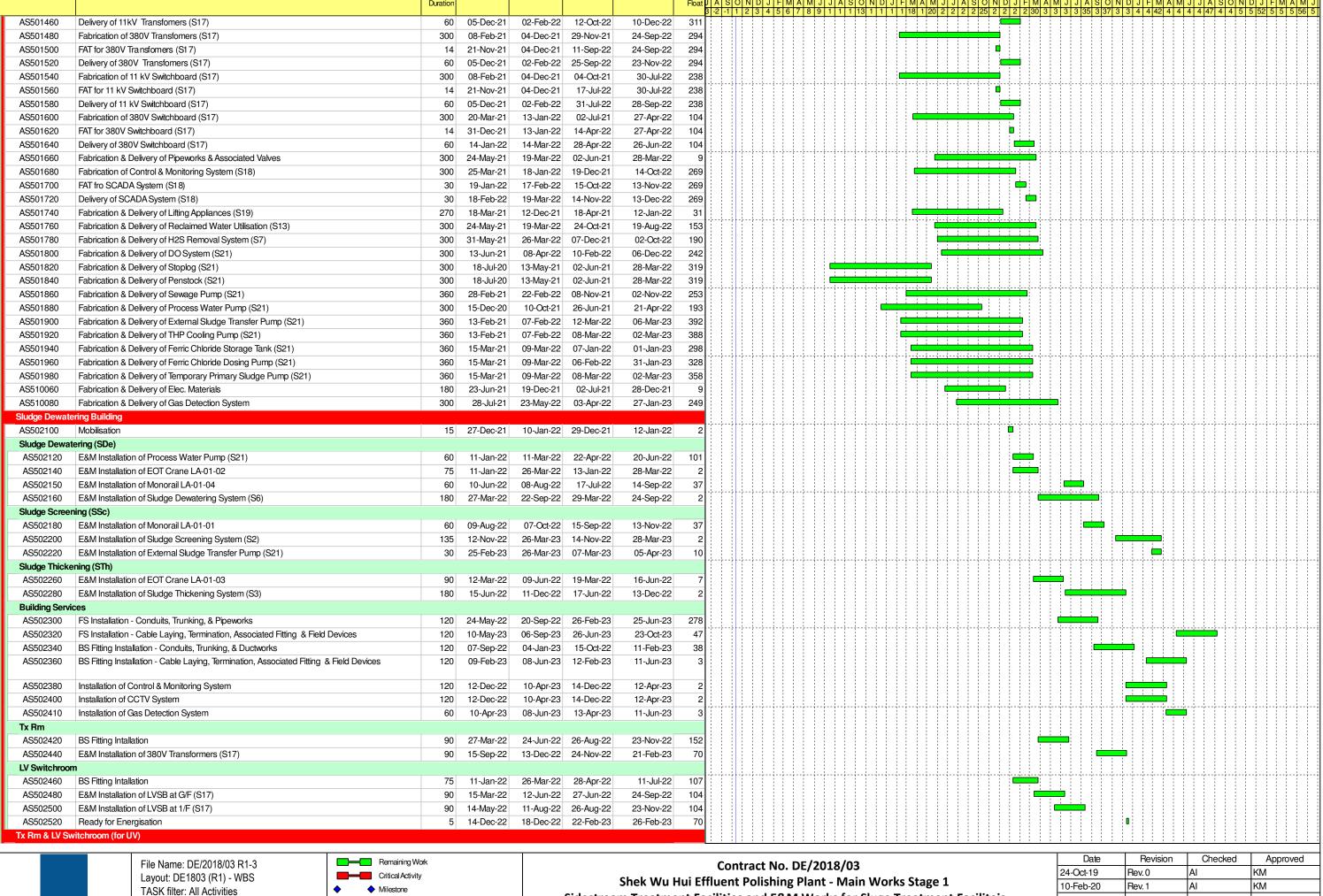


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Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

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



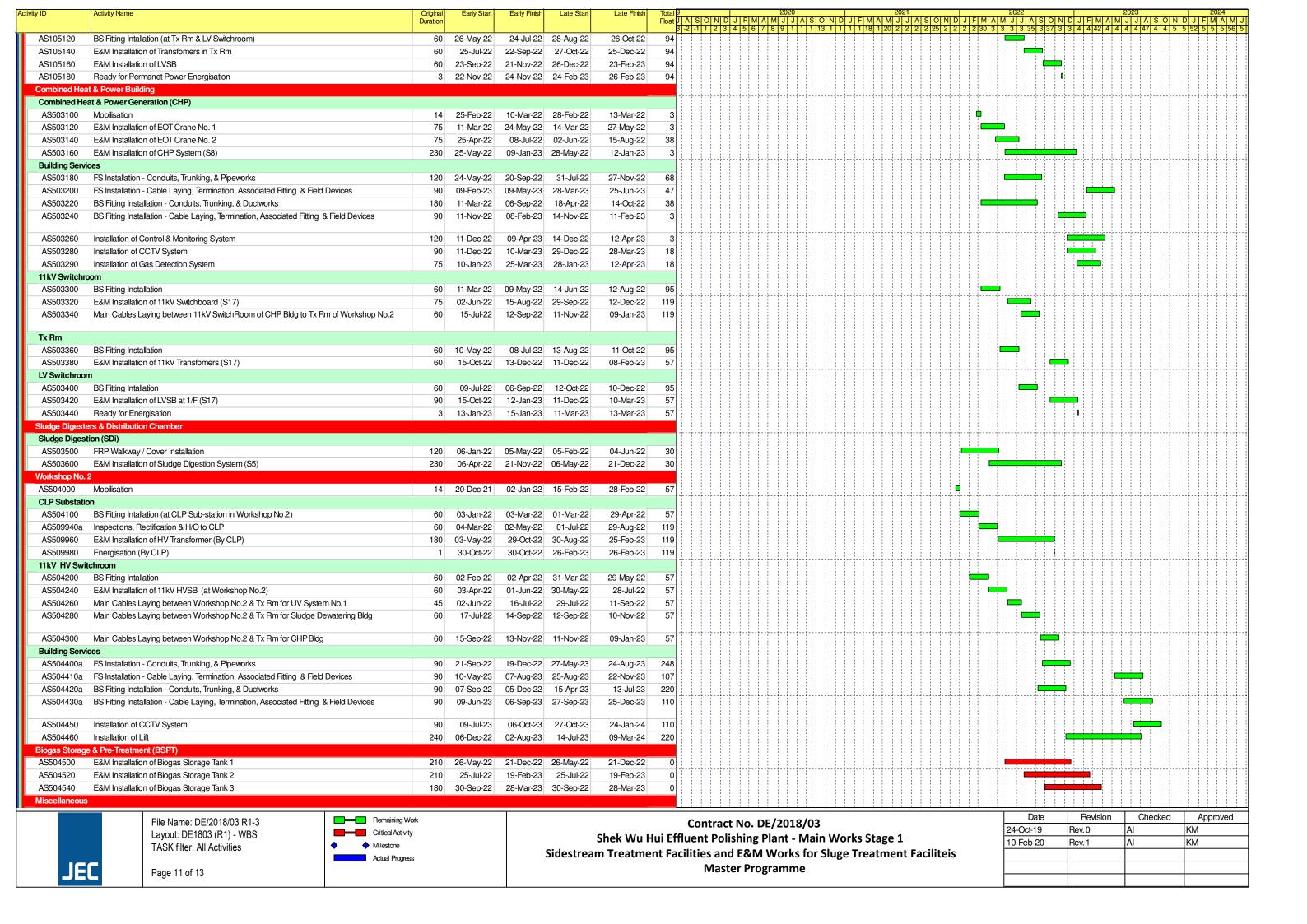


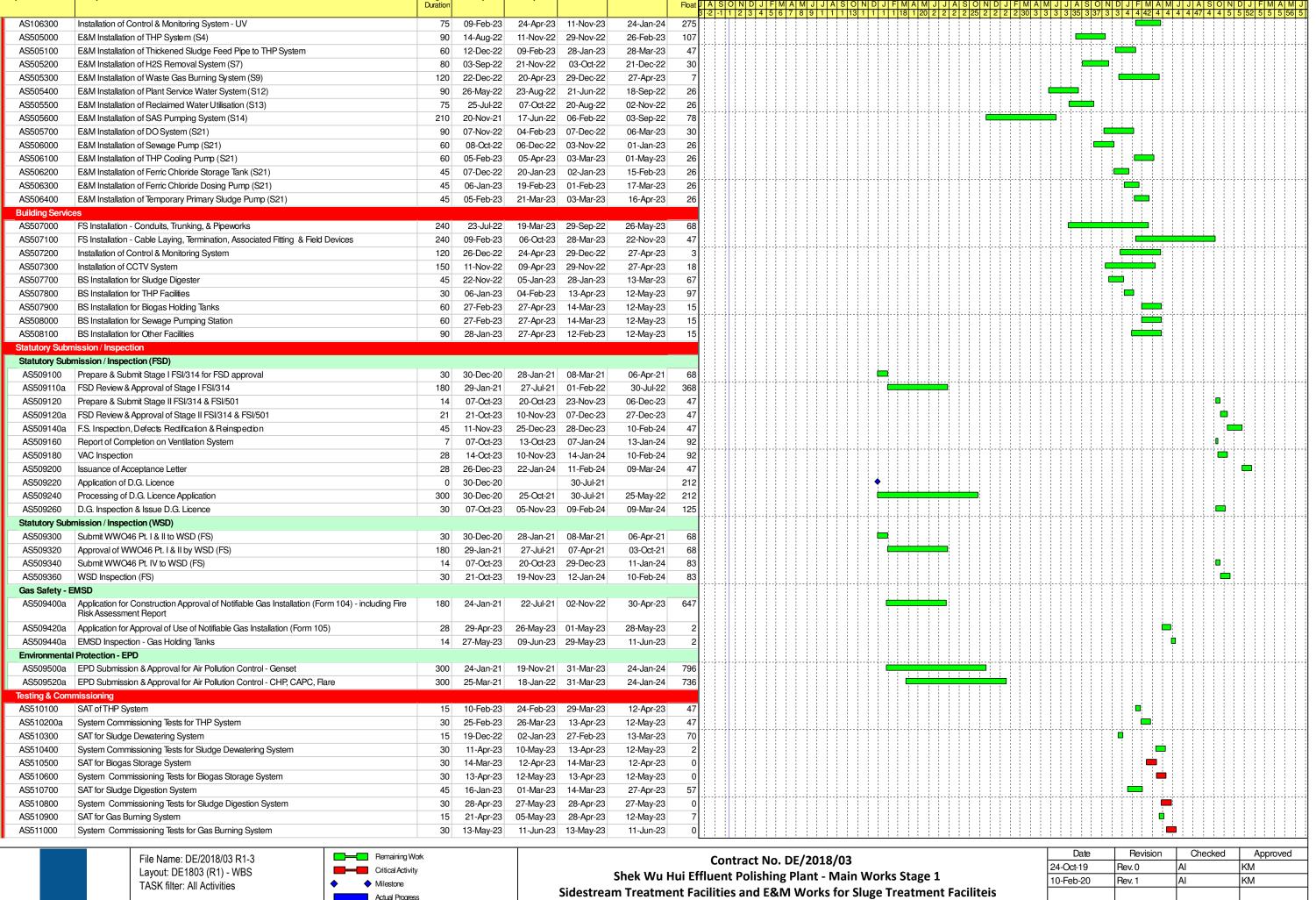
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Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis **Master Programme**

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







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Master Programme

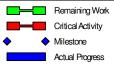
Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM

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	JF	M A M	JJ	ASON	JF	MAM	JJ	1 S O	N D J	F M	A M J	J A S	ONE	JFI	MAN
1054400	OAT (OUD O)		10.1.00	2211 22	40.4.00	40.14 00	3 -2	4-11-11	2 3 4	56/	1819	<u> </u>	13 1 1	1111	18 1 20	2 2	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 47 4	4 5 5	52 5	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		1 1	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]				777										
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		[[1-1-1-]][
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																					1 1
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			1-1-1-				1-1-1		;;; 							7777					/

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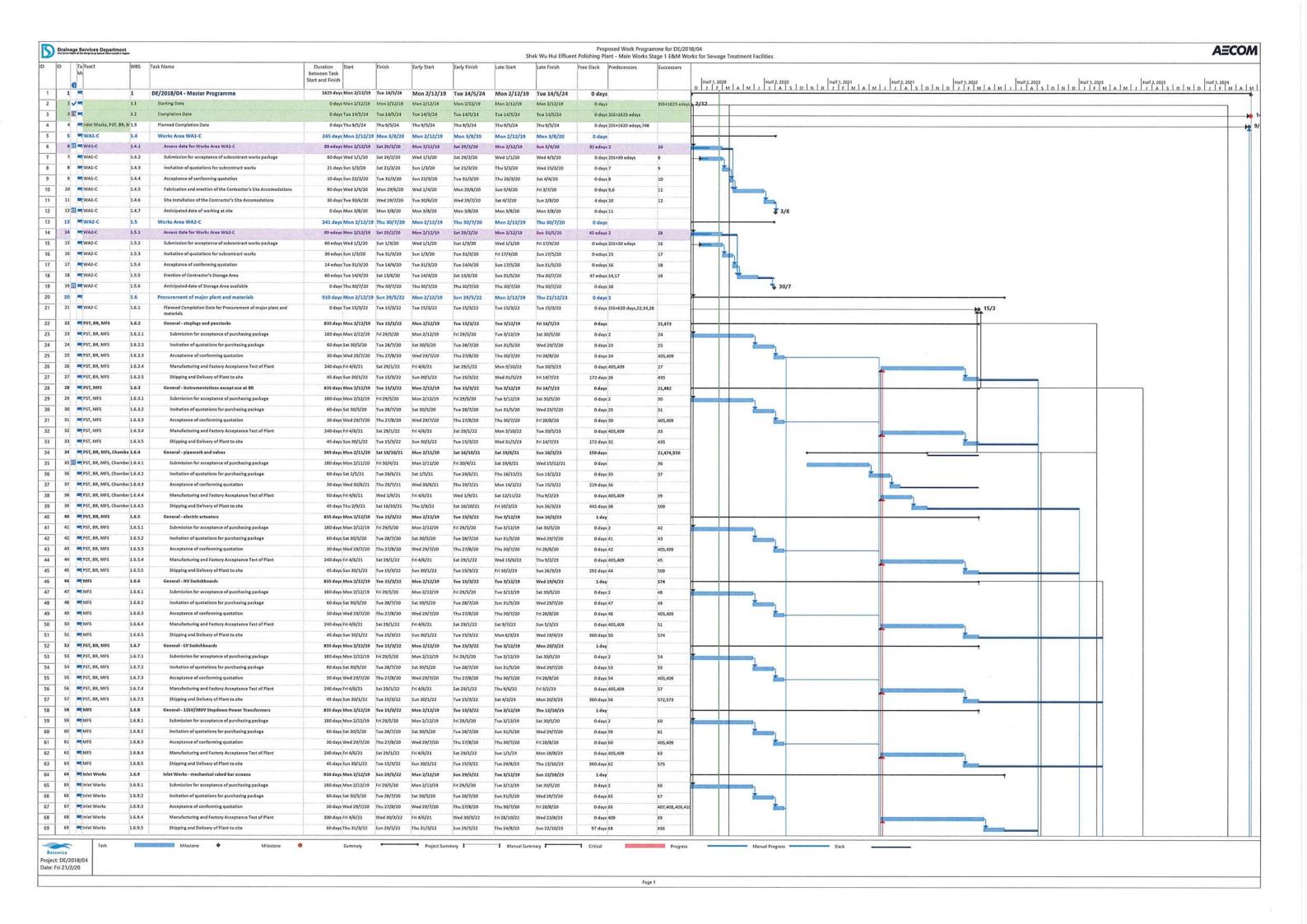
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Contract No. DE/2018/03
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis
Master Programme

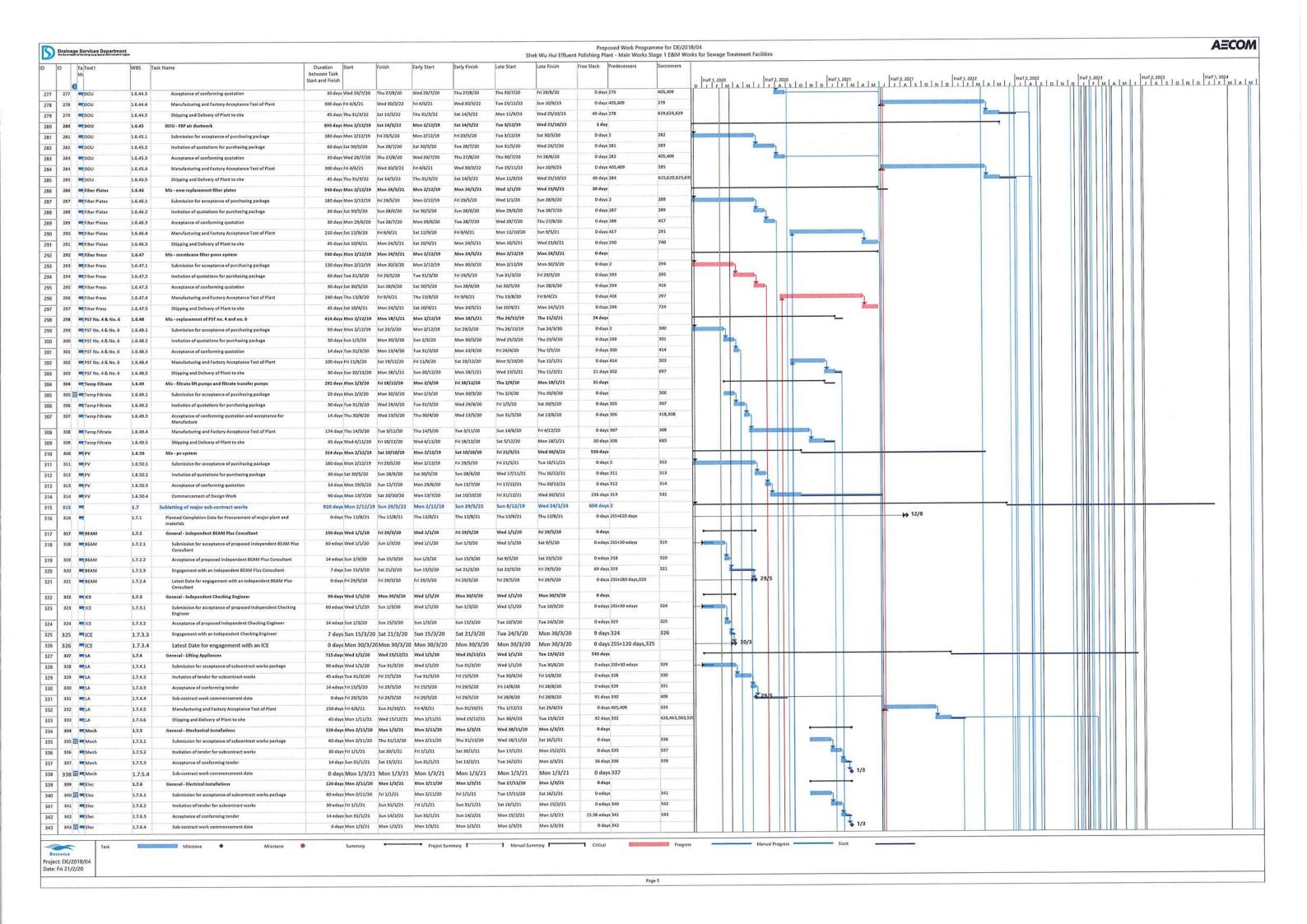
Date	Revision	Checked	Approved
24-Oct-19	Rev. 0	Al	KM
10-Feb-20	Rev. 1	Al	KM



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	1	
		■ 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 O J T A T A T A T A T T	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		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.		
	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	LI UZANIAN CONTRACTOR	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		
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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 FF 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
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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													
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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/	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			Leave and the second		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	4 1							/ I II				
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10 10 10 10 10 10 10 10													461												
40 10 10 10 10 10 10 10						2275147 (71		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 12 12 13 13 14 14 14 14 14 14	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 4444												
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 movement						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 14/1/24 581 14/4/24 354 days Adv. PST 1, 2,7,1,2 Coping Level EOT Carea LAG2-03 SWI, 51 30 days Two 23/1/23 Fri 23/1/23 Fri 23/1/23 Swi 14/1/24 581 14/4/24 354 days Adv. PST 1, 2,7,1,3 Coping Level EOT Carea LAG2-03 SWI, 51 30 days \$2.17/43 Swi 23/1/23 Swi 23/1/24 S																						4			
1. 5.7. 467 PLA FST 1.9.7.1.2 Coping Level EOT Crame IA-Q-Q-Q-SVVLSS 30 days The 221/1/23 Fri 22			*****	1000000				H-0.0-2000-0-03					467,468	+											
18 66 Fig. Fig. 19,71.3 Coping Level EOT Crane LA-02-03 SVV. 51 30 days 5at 22/4/73	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 Mon 14/8/23 Tue 12/9/23 Odays 106 475 19.7.2.5 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 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 Milestone Manual Forgress Ma													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					12000000000		0.000	Managagas.		100000000000000000000000000000000000000	- 17	-											
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 PARTY	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	315	
	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 MFB 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				90 days Wed 17/8/22	property egone res		Mon 14/11/22	Tue 17/10/23	Sun 14/1/24	0 days		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	2 (000000000000000000000000000000000000	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 - DOU	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 = DOU, 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	36
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 EE 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 C.M.	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	120000000000000000000000000000000000000	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													

age Services Departm	ient						5	hek Wu Hui Effluen	Proposed Work Program t Polishing Plant - Main Works S			104 s for Sewage Treatment Facilities
Ta Text1	WBS Ta	ask Name	Duration Start between Task	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors		
o l			Start and Finish								Half 1, 20	Half 1, 2020 Half 2, 2020 Half 3, 2021 Half 3, 2021 Half 3, 2022 Half 3, 2022 Half 3, 2023 Half
	1.10.5.5	Installation of Lifting Appliances	7 days Mon 18/1/21	Sun 24/1/21	Mon 18/1/21	Sun 24/1/21	Tue 2/2/21	Mon 8/2/21	15 days 679			
		GF MR LA-09-01 SWL 1t			Mon 18/1/21	Sun 24/1/21	Tue 2/2/21	Mon 8/2/21				
										687ES-30 days		
-0.000										685		
	CONTRACTOR OF THE PARTY OF THE	Installation of pumps			Mon 18/1/21	Sun 24/1/21	Tue 19/1/21	Mon 25/1/21	1 day 684,309	1775		
Temp Filtrate, Me	ech 1.10.5.6.5	Installation of instrumentations			Sat 19/12/20	Fri 1/1/21	Tue 12/1/21	Mon 25/1/21	24 days 679			
Temp Filtrate	1.10.5.7	Electrical Installations for Temp. Filtrate Lifting Well and Eq. Tani	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	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
Temp Filtrate, Ele	nc 1.10.5,7.1	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	Mon 18/1/21	3 days		Ĩ I	
		Cables laying and terminations			Sat 26/12/20	Fri 15/1/21	Tue 29/12/20	Mon 18/1/21	3 days			
Temp Filtrate	1.10.5.8	Site Acceptance Test for E&M Equip at Filtrate Lifting Well and Eq. Tank	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	0 days 683,687	691		
Temp Filtrate	1.10.5.9	System Commissioning for E&M Equip at Temp, Filtrate Lifting Well and Eq. Tank	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	
Temp Filtrate	1,10,5.10		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 1	
Temp Filtrate	1.10.6	Work 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			8/2
✓ = PST No. 4 & No. 6	6 1.10.7	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	
		Tentative Commencement Date			Mon 8/2/21	Mon 8/2/21	Thu 11/2/21	Thu 11/2/21	O days	697	4 /	8/2
		Commencement of retrofitting the existing PST No. 4 and No. 6		- 8500000000	Tue 9/2/21	Sat 5/6/21	Fri 12/2/21	Tue 8/6/21	3 days	600	4 1	
										633	4	
		Mechanical Installations of existing PSTs Installation of PST influent feed pipe								700	-	
		Installation of circular baffle diffuser box	7 days Fri 26/2/21	Thu 4/3/21	Fri 26/2/21	Thu 4/3/21	Mon 1/3/21	Sun 7/3/21	0 days 699	701		
	Company of the Compan	Installation of scum baffle plates	7 days Fri 5/3/21	Thu 11/3/21	Fri 5/3/21	Thu 11/3/21	Mon 8/3/21	Sun 14/3/21	0 days 700	702	1 1	<u> </u>
PST No. 4 & No. 6	, Mec 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		5
PST No. 4 & No. 6	, Mec 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		
PST No. 4 & No. 6 Mech	5, 1.10.9.2.€	Installation of center bearing and slip ring assembly for rotating bridge	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		<u> </u>
PST No. 4 & No. 6	, Mec 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 /	
PST No. 4 & No. 6	, Mec 1.10.9.2.E	Installation of rotating bridge sludge and scum scraper assemble	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		
PST No. 4 & No. 6	, Mec 1.10.9.2.5	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		
		Electrical Installations of existing PSTs			Thu 15/4/21	Sat 8/5/21	Sun 18/4/21	Tue 11/5/21	O days	711		
						5 300 000 000 000 000 000 000 000 000 00		CARDATESE			4 /	<u> </u>
											- 1	
100000000000000000000000000000000000000					274100044000			170000000000000000000000000000000000000		673,741	4 /	
					Mon 2/12/19	Mon 2/12/19	Mon 2/12/19	Mon 2/12/19	0 edays 2		2/12	2/12
	14.004	emergency generator electrical works	14.00.2100	f 21/1/21	5 m 21/1/21	6 - 21 (1 /21	Fun 21/1/21	6	n days			♦ 31/1
Til - existing genset	1,10.11	modification of existing emergency generator electrical works	1 day 5un 31/1/21	3un 31/1/21	3un 31/1/21	300 31/1/21	34H 31/1/21	30N 31/1/21	odays			
existing genset	1.10.12	Commencement of Modification of existing emergency generator Electrical Works	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			
existing genset	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 /	
existing genset	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		in the state of th
existing genset	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		<u> </u>
	1.10.12.4	Dismantling and removal the existing power & control cables			Sat 18/7/20	Sun 19/7/20	Fri 24/7/20	Sat 25/7/20	O days 718	720		
10 -000 -000	100000000000000000000000000000000000000		COUNTY COUNTY CO.		100000000000000000000000000000000000000	The state of the s	42000000000000000	100-000-000				
				- Annual Andrews						6/2	2/12	2/12
· Manual Comment					The same of the same of						7	, , , , , , , , , , , , , , , , , , , ,
	1.10.16	Commencement of replacement of filter plates				Sun 22/8/21	Thu 24/6/21	Tue 21/9/21	30 days			• • • • • • • • • • • • • • • • • • •
	1.10,16.1	Replacement of filter plates			Tue 25/5/21	Sun 22/8/21	Thu 24/6/21	Tue 21/9/21	30 days 291	671	1 /	<u>*</u>
Risk Allowance	1.10.17	Risk 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		*
	1.11	Section 4 - Completion of Work for remainder of the works	Personal Children Control	A CONTRACTOR OF THE PARTY OF TH	The state of the s	Tue 14/5/24	Wed 20/3/24	Tue 14/5/24	0 days 2			
		Section 4 - Latest Completion Date			Tue 14/5/24	Tue 14/5/24	Tue 14/5/24	Tue 14/5/24	0 days 255+1625 edays	N NEWS		
110000000000000000000000000000000000000	1.11.2	Latest date for connection of optical filbres		22-03-00-00-00-00-00-00-00-00-00-00-00-00-	Thu 14/3/24	Thu 14/3/24	Wed 20/3/24	Wed 20/3/24	0 days	745	4 /	
							and the second s				- /	
		CMMS, PMS, IDMS)	2012/03/2017/03/2017									
Others	1.11.5	Overall Plant Commissioning and DSD pre-handover inspections	10 days Sun 21/4/24		Sun 21/4/24	Tue 30/4/24	Sat 27/4/24	Mon 6/5/24	0 days 745,746	748	1 /	
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	Tue 7/5/24	Wed 8/5/24	6 days 745,746,747	4		T. C.
11 1 2 2 3 3 4 4 5 6 6 7 8 8 9 9 0 1 2 2 3 3 4 4 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	1	The Temp Filtrate, IAA 1.10.5.5.1 GF MR IA-09-01 SWL 1st GF MR IA-09-01 SWL 1st Temp Filtrate, Mech 1.10.5.6.5 Installation of pipework and valves Filtrate, Mech 1.10.5.6.5 Installation of pipework and valves Installation of pipework I	### Transp Filtrate 1.10.5.5 Data Silation of Uffice Appliances 7 days Mon 181/121	w Temp Filtrates L. 10.05.5 W Temp Filtrates L. 10.05.7 W Temp Filtrate	**Temp Pilicate** 1.05.5.5 Installation of Uniting Appliances** 7-days Mem 191/211 Sen 201/213 Mem 191/214 Sen 201/213 Sen 201	Wiltone Prince 1.05.5.5 Grant March College 1.05.5.5 Gra	The print of the control of this project on the control of this project on the control of the	The Properties 1.51.5 Control of Miles of Strict. In 1990 Strict. In 1990	West Company Company		Company

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 Piana	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

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EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Noise Impact							
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						
\$5.2.2.1	Construction Site Runoff Practices and measures provided in the Practice Note for Professional Persons on Construction Site Drainage, (PROPECC PN1/94) should be followed where applicable.	Control construction runoff	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	۸
\$5.2.2.2 – \$5.2.2.3	Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed Contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	U	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

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EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
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	from the appropriate authorities		Stage 3		^	
	Disposal of waste should be done at licensed waste disposal facilities.						^
S6.2.5.2	backfilling; impacts from	Contractor	Work Sites	Construction phase of Main Works Stage 1,	Land (Miscellaneous Provisions) Ordinance, WDO,	۸	
	Carry out on-site sorting;	excavated and C&D materials			Stage 2 and Stage 3	ETWB TCW No. 19/2005	^
	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.	impacts from building demolition and new building construction overnment has developed a charging policy for the disposal of waste to adfill at present. It will provide additional incentive to reduce the alume of generated waste and ensure proper segregation to allow reuse of	Contractor			Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	۸
	Government has developed a charging policy for the disposal of waste to landfill at present. It will provide additional incentive to reduce the volume of generated waste and ensure proper segregation to allow reuse of the inert material on site when implemented.					^	
	In order to minimize the impacts of the demolition works, the generated wastes must be cleared as quickly as possible after demolition. Therefore, the demolition and clearance works should be undertaken simultaneously. To facilitate proper segregation of inert and non-inert C&D material arising from demolition works, selective demolition method should be adopted.						۸
S6.2.5.4	If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producers.	Control the chemical waste and	Contractor		Construction phase of Main	Waste Disposal (Chemical Waste	۸
	Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	ensure proper storage, handling and disposal			Stage 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	npacts		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

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

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EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
\$7.3.2.1	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
	MM16 - Screen Hoarding Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence.		Designer	Work Sites	Construction phase		^
\$7.3.2.1	MM17 - Light Control Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs.	Designer / Contractor	Work Sites and/or the Plant	Construction phase and operation phase		۸

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

APPENDIX E SITE AUDIT SUMMARY

Appendix E – Summary of Observations and Recommendations of Site Audit

Reporting Quarter: 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 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 General Hard Rock											
	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 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)

	Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Hard Rock I										
		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 '000m ³)	(in '000m ³)	(in '000m ³)	(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>

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

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/2018/07

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 Quanti	ties of Inert C&D	Materials Generate	ed 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:

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⁽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 Quanti	ties of Inert C&D	Materials Generate	ed 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:

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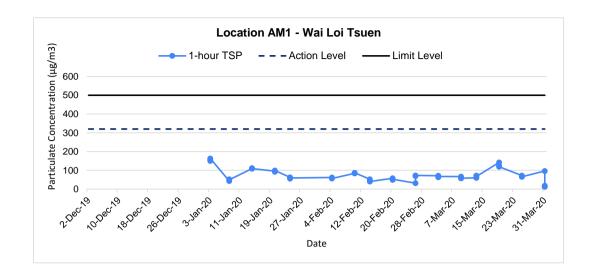
⁽¹⁾ The performance targets are given in PS Clause 6.21.8(14).

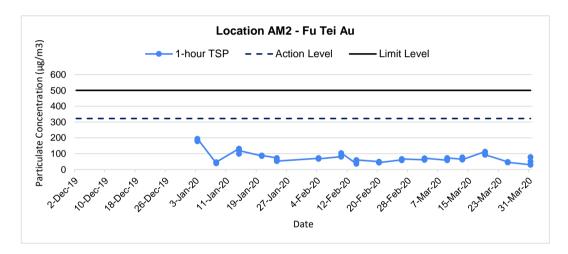
⁽²⁾ The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

⁽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





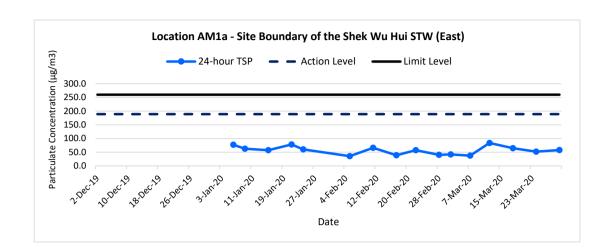
Remarks

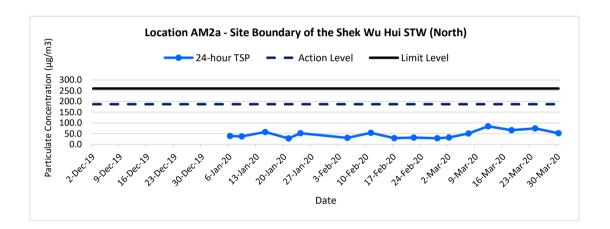
- (1) Since no actual construction works were carried out in December 2019, no 1-hour TSP monitoring was conducted. Thus,
- 1-hour TSP monitoring results were not applicable in December 2019.
- (2) Weather conditions within the reporting period were generally sunny and cloudy.
- (3) Major construction 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.	MA19019	CINOTECL	
Graphical Presentation of 1-hour TSP Monitoring Results		Appendix	G	CINOICCI	

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

24-hr TSP Concentration Levels





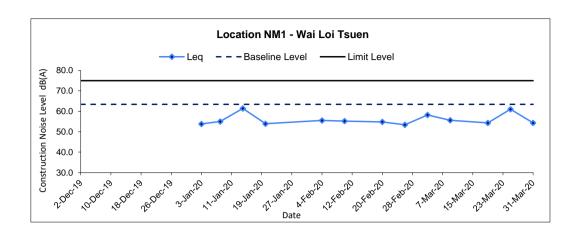
Remarks:

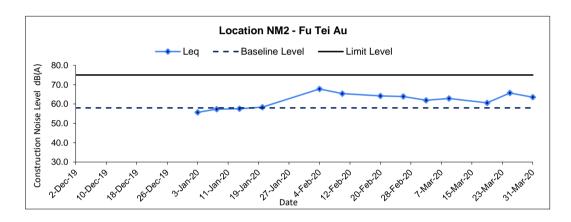
- (1) Since no actual construction works were carried out in December 2019, no 24-hour TSP monitoring was conducted. Thus, 24-hour TSP monitoring results were not applicable in December 2019.
- (2) Weather conditions within the reporting period were generally sunny and cloudy.
- (3) Major construction 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.

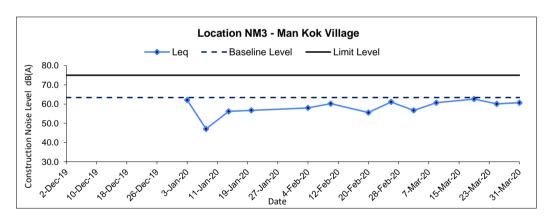
Tit	le Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Date Mar 2020	Project No.	MA19019	CINOTECH
	Graphical Presentation of 24-hour TSP Monitoring Results		Appendix	н	CINOTCOT

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.

	ls .	n	
Title Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Date Mar 2020	Project No. MA19019	
		Appendix	CINOIECH
Graphical Presentation of Construction Noise Monitoring Results		ı	

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 volves of l	Doto*	Confide	nce Level			
T-values of Data*		95%	99%			
	Monthly	✓	✓			
January 2020	Season	✓	✓			
	Overall	✓	✓			
	Monthly	√	√			
February 2020	Season	√	√			
	Overall	√	─ ✓			
	Monthly	✓	✓			
March 2020	Season	✓	✓			
	Overall	√	✓			

Remarks:

^{*} 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.

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

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

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