Drainage Services Department

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

Monthly EM&A Report
August 2021

(Version 1)

Certified By

(Environmental Team Leader:
Mr. KS Lee)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

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14 September 2021

By E-mail and Fax (3922 9797)

AECOM Asia Company Limited
8/F., Grand Central Plaza, Tower 2,
138 Shatin Rural Committee Road
Sha Tin, New Territories, Hong Kong

Attention: Mr CHANG Ping Wah

Dear Mr CHANG,

Re: Contract No. SPW 08/2019
Independent Environmental Checker for
Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1

Monthly EM&A Report for August 2021

Reference is made to the Environmental Team's submission of Monthly EM&A Report for August 2021 (Version 1) certified by the ET Leader and provided to us via e-mail on 14 September 2021.

Please be informed that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of FEP-02/474/2013.

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

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

Y H Hui
Independent Environmental Checker

c.c.

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

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EXECUTIVE SUMMARY

Introduction

1. This is the 20th EM&A Report prepared by the Environmental Team, Cinotech Consultants Ltd., for Agreement No. SPW 07/2019 "Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1". This report summarized the monitoring results and audits findings of the EM&A programme under the issued further EP No. FEP-02/474/2013 and in accordance with the Updated EM&A Manual during the reporting month of August 2021.

Summary of Main Works Undertaken and Key Measures Implemented

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

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

Contract No.	Contract Title	Site Activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	• RC works • Wall and slab construction • Backfilling • Pipe laying • Pipe jacking work • Excavation works • Road works
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	• ELS and construction of inlet reception chamber • Trench excavation • Road and drainage works • Diversion of inlet works • Process pipe of CHR and CHS • Pre-drilling work and foundation work • Cable diversion works • Demolition work of existing main facilities • Alternation of existing powerhouse • Pre-bored H piles • Sheet pile installation
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	• Socket H piling • Installation of EOT crane

Contract No.	Contract Title	Site Activities
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	• Electrical installation of temporary filtrate equalisation tank • Installation of FRP tank • Testing and commission of temporary primary sludge thickener and its accessories. • Retrofitting the existing primary sedimentation tank no. 6 • Modification of existing emergency generator electrical works

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

Air Quality
- Stockpiles were covered by impervious sheets.
- Water spraying on haul road was done to minimize dust generation.

Water Quality
- Stagnant water on the impervious sheets was removed.

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

Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels during the reporting month (August 2021) and the investigation results and/or follow-up actions:

Air Quality Monitoring
- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

Construction Noise Monitoring
- No Action/Limit Level exceedance for day time construction noise monitoring was recorded in the reporting month.

Ecological Monitoring
- No Action and Limit Level exceedance was triggered.

Complaint Handling, Prosecution and Public Engagement

Table II Summary of Complaint/Summons/Prosecution in the Reporting Month

Event	Event Details		Follow-up/ Remedial Actions	Status/ Remarks
	Number	Brief Description		
Complaints Received	1	Air nuisance was suspected to be originated from the construction activities of SWHEPP.	• Ensured only PMEs with valid NRMM label were used on-site • Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart • Used ULSD for diesel-powered equipment • Used battery powered solution to provide power to the tower crane • Carried out plant maintenance in a timely manner	Complaint Investigation Report (CIR) was submitted in August 2021
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

Reporting Changes

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

Future Key Issues

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

Table III Summary Table for Site Activities in the Next Reporting Period

Contract No.	Contract Title	Site Activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	• RC works • Wall and slab construction • Backfilling • Pipe laying • Pipe jacking work • Excavation works • Road works
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	• ELS and construction of inlet reception chamber • Trench excavation • Road and drainage works • Diversion of inlet works • Process pipe of CHR and CHS • Pre-drilling work and foundation work • Cable diversion works • Demolition work of existing main facilities • Alternation of existing powerhouse • Pre-bored H piles • Sheet pile installation
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	• Ground investigation • Installation of F.S. equipment • Installation of power cable • Installation of EOT crane • Installation of cable tray, conduit • ELS works • Installation of guide bar bracket, guide bar and placing the effluent transfer pump
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	• Electrical installation of temporary filtrate equalisation tank • Testing and commission of temporary primary sludge thickener and its accessories • Retrofitting the existing primary sedimentation tank No. 6 • Modification of existing emergency generator electrical works

1 INTRODUCTION

Background

1.1 The Further Expansion of Shek Wu Hui Effluent Polishing Plant (SWHEPP) is a designated Project (DP) under F.1 and F.2 of Part 1, Schedule 2 of Environmental Impact Assessment Ordinance (EIAO). The "North East New Territories New Development Areas" Environmental Impact Assessment (NENT NDAs EIA) Report (Registered No.: AEIAR-175/2013) covered the assessment for the Further Expansion of SWHSTW Phase 1A, 1B and 2, and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 18 October 2013.

1.2 The existing Shek Wu Hui Sewage Treatment Works (SWHSTW) is operated and maintained by the Drainage Services Department (DSD). It provides secondary level treatment to sewage collected from Sheung Shui, Fanling and adjacent areas, SWHSTW was completed in two stages and expanded progressively in the past year. In 2009, the expansion of SWHSTW was completed and its design capacity was 93,000m^2/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 190,000m^3/day. The updated Environmental Monitoring and Audit (EM&A) Manual was prepared in accordance with Condition 2.3 of the Further EP. The site layout plan for the Project is shown in **Figure 1.1**.

1.4 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for "Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1" (hereinafter called the "Project").

Purpose of the Report

1.5 This is the 20th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in August 2021.

Project Organizations

1.6 Different Parties with different levels of involvement in the project organization include:

- Permit Holder – Drainage Services Department (DSD)
- Supervisor Representative – AECOM Asia Company Limited (AECOM)
- Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
- Independent Environmental Checker (IEC) – Ramboll Hong Kong Limited (Ramboll)
- Contractors
  - Contract No.: DC/2018/06 - Kwan Lee - Chun Wo Joint Venture (KLCWJV)
  - Contract No.: DC/2018/07 - Kwan Lee - Chun Wo Joint Venture (KLCWJV)
  - Contract No.: DE/2018/03 - Jardine Engineering Corporation Limited (JEC)
  - Contract No.: DE/2018/04 - Bestwise Envirotech Limited (Bestwise)

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

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Phone No.
DSD	Permit Holder	Ms. Konica Cheung	2594 7463
AECOM	Supervisor Representative	Ms. Bianca Choi	3907 6141
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091
		Ms. Betty Choi	2151 2072
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
KLCWJV	Contractor (DC/2018/06)	Ms. Ruby Hui	6218 6408
KLCWJV	Contractor (DC/2018/07)	Ms. Shirley Kong	5162 5933
JEC	Contractor (DE/2018/03)	Ms. Juliet Ting	6826 7319
Bestwise	Contractor (DE/2018/04)	Mr. Albus Cheung	9731 0831

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

Construction Activities undertaken during the Reporting Month

1.9 The major site activities undertaken in the reporting month included:

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

Contract No.	Contract Title	Site Activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	• RC works • Wall and slab construction • Backfilling • Pipe laying • Pipe jacking work • Excavation works • Road works
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	• ELS and construction of inlet reception chamber • Trench excavation • Road and drainage works • Diversion of inlet works • Process pipe of CHR and CHS • Pre-drilling work and foundation work • Cable diversion works • Demolition work of existing main facilities • Alternation of existing powerhouse • Pre-bored H piles • Sheet pile installation

Contract No.	Contract Title	Site Activities
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	• Socket H piling • Installation of EOT crane
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	• Electrical installation of temporary filtrate equalisation tank • Installation of FRP tank • Testing and commission of temporary primary sludge thickener and its accessories. • Retrofitting the existing primary sedimentation tank no. 6 • Modification of existing emergency generator electrical works

Summary of EM&A Requirements

1.10 The EM&A programme requires construction noise monitoring, air quality monitoring, water quality monitoring, ecological monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA Report.

1.11 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 8 of this report.

1.12 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in August 2021.

Statues of Environmental Licensing and Permitting

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

Table 1.3 Summary of Environmental License and Permit

Contract No.	Permit / License No.	Valid Period		Status
		From	To	
Environmental Permit (EP)				
All	FEP-02/474/2013	15 Feb 2018	N/A	Valid
Notification of Construction Works under Air Pollution Control Ordinance (APCO)				
DC/2018/06	449210 (Portion A & C)	23 Sep 2019	N/A	Valid
DC/2018/06	449211 (WM1)	23 Sep 2019	N/A	Valid
DC/2018/07	449210	23 Sep 2019	N/A	Valid
DE/2018/03	455843 (WA3)	6 May 2020	N/A	Valid
DE/2018/03	457212 (WA1-B)	15 Jun 2020	N/A	Valid
DE/2018/03	460065 (Sidestream)	16 Sep 2020	N/A	Valid
DE/2018/04	460181	17 Sep 2020	N/A	Valid
Billing Account for Construction Waste Disposal				
DC/2018/06	7035390	11 Oct 2019	N/A	Valid
DC/2018/07	7035985	9 Dec 2019	N/A	Valid
DE/2018/03	7035700	6 Nov 2019	N/A	Valid
DE/2018/04	703621912	2 Jan 2020	N/A	Valid
Registration of Chemical Waste Producer				
DC/2018/06	5213-624-K3371-01	14 Nov 2019	N/A	Valid
DC/2018/07	5213-624-K3371-02	6 Jan 2020	N/A	Valid
DE/2018/03	5213-624-T3861-01	14 Apr 2020	N/A	Valid
DE/2018/04	5213-624-B2592-01	7 Jul 2020	N/A	Valid
Effluent Discharge License				
DC/2018/06	WT00035431-2019 (Portion C)	27 Jul 2020	31 Jan 2025	Valid
DC/2018/06	WT00035718-2020 (Portion A)	2 Apr 2020	30 Apr 2025	Valid
DC/2018/07	WT00035727-2020	1 Apr 2020	30 Apr 2025	Valid
DE/2018/03	WT00037220-2020	16 Mar 2021	31 Jan 2026	Valid
Construction Noise Permit (Use of Powered Mechanical Equipment)				
DC/2018/06 & DC/2018/07	GW-RN0432-21	12 Jul 2021	11 Jan 2022	Valid
DC/2018/06	GW-RN0479-21	7 Jul 2021	30 Sep 2021	Valid
DE/2018/03	GW-RN0484-21	6 Jul 2021	27 Jan 2022	Valid

2 AIR QUALITY

Monitoring Requirement

2.1 According to the Updated EM&A Manual of SWHEPP, 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 Four designated monitoring stations were selected for air quality monitoring programme. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Table 2.1 Air Quality Monitoring Locations

Monitoring Stations	Location	Location of Measurement
AM1(1)	Wai Loi Tsuen	Ground Level
AM2(1)	Fu Tei Au	Ground Level
AM1a(2)	Site Boundary of the Shek Wu Hui STW (East)	Ground Level
AM2a(2)	Site Boundary of the Shek Wu Hui STW (North)	Ground Level

Remarks: (1) For 1-hour TSP monitoring; (2) For 24-hour TSP monitoring

Monitoring Parameters and Frequency

2.3 **Table 2.2** summarizes the monitoring parameters, monitoring period and frequencies of impact air quality monitoring. The monitoring schedule is shown in **Appendix B**.

Table 2.2 Frequency and Parameters of Air Quality Monitoring

Monitoring Stations	Parameter	Period	Frequency
AM1 & AM2	1-hour TSP	0700 – 1900	3 times/day, once every 6 days
AM1a & AM2a	24-hour TSP	24 hours	Once every 6 days

Monitoring Equipment

2.4 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual, Section 2.2.2, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured by direct reading method.

2.5 Wind data monitoring equipment was set on rooftop (about 4/F) of the SWHSTW control room building for logging wind speed and wind direction such that the wind sensors were clear of obstructions or turbulence caused by building. The wind data monitoring equipment was re-calibrated at least once every six months and the wind directions were divided into 16 sectors of 22.5 degrees each.

2.6 **Table 2.3** summarizes the equipment to be used for air quality monitoring. Copies of calibration certificates are attached in **Appendix C**.

Table 2.3 Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
1-hour TSP Dust Meter	Sibata Model No.: LD-5R	2
HVS Sampler	GMW Model: GS 2310	1
	TISCH Model: TE 5170	1
Calibrator	TISCH Model: TE-5025A	1
Wind Anemometer	Global Water Instrumentation WE800	1

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

2.7 The measuring procedures of the 1-hour dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(Sibata Model No.: LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

2.8 The following maintenance/calibration is required for the 1-hour dust meter:

- Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

24-hour TSP Monitoring

Instrumentation

2.9 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Section 2.2 of the Annex II Specification.

2.10 The positioning of the HVS samplers are as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
- No two samplers shall be placed less than 2 meter apart;
- The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
- A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
- A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
- No furnace or incinerator flue is nearby;
- Airflow around the sampler is unrestricted;
- The sampler is more than 20 metres from the dripline;
- Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
- Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- A secured supply of electricity is needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

2.11 Operating/analytical procedures for the air quality monitoring are highlighted as follows:

- Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m^3/min. and 1.4 m^3/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3μm diameter were used.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.

- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (High Precision Chemical Testing Limited) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

2.12 The following maintenance/calibration is required for the HVS:

- The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
- High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

2.13 Impact air quality monitoring was conducted at four monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**.

2.14 No Action/Limit Level exceedance was recorded for all 1-hour TSP monitoring in the reporting month.

2.15 No Action/Limit Level exceedance was recorded for all 24-hour TSP monitoring in the reporting month.

2.16 The air temperature, precipitation and the relative humidity data was obtained from daily extract of Ta Kwu Ling Station in Hong Kong Observatory Climate Information Service, where the wind speed and wind direction were recorded by the installed Wind Anemometer at rooftop (about 4/F) of the SWHSTW control room building. This weather information for the reporting month is summarized in **Appendix D**.

2.17 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.

2.18 According to our field observations, the major dust source identified at the designated air quality monitoring stations are as follows:

Table 2.4 Major Dust Source during Air Quality Monitoring

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

Comparison of EM&A Result with EIA Prediction

2.19 The air monitoring data was compared with the predictions in the EIA Report (as approved in 2013) as summarised in **Tables 2.5** and **Table 2.6**.

Table 2.5 Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report (As Approved in 2013)

Monitoring Stations	ASR ID	Predicted 1-hr TSP Concentration in EIA Report (as Approved in 2013), dB(A), µg/m^3	Reporting Month (August 2021), µg/m^3
AM1 - Wai Loi Tsuen	N/A	N/A(1)	19.2 - 196.8
AM2 - Fu Tei Au	FLN-E28	255	12.0 - 127.2

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

Table 2.6 Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report (As Approved in 2013)

Monitoring Stations	Predicted 24-hr TSP Concentration in EIA Report (as approved in 2013), dB(A), µg/m^3	Reporting Month (August 2021), µg/m^3
AM1a - Site Boundary of the Shek Wu Hui STW (East)	N/A(1)	5.8 - 74.0
AM2a - Site Boundary of the Shek Wu Hui STW (North)	N/A(1)	10.9 - 36.7

Remarks:
(1) No 24-hr TSP concentration was predicted in EIA Report (as approved in 2013).

2.20 The 1-hour TSP concentration at AM2 in the reporting month was lower than the prediction in the EIA Report (As Approved in 2013). The 1-hour TSP concentrations at AM1 as well as 24-hour TSP concentrations at AM1a and AM2a were not predicted in the EIA Report (As Approved in 2013).

3 NOISE

Monitoring Requirements

3.1 According to the Updated EM&A Manual, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2 Noise monitoring was conducted at three designated monitoring stations in the reporting period. **Table 3.1** and **Figure 3** show the locations of these stations.

Table 3.1 Noise Monitoring Stations

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

Monitoring Parameters, Frequency and Duration

3.3 **Table 3.2** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix B**.

Table 3.2 Frequency and Parameters of Noise Monitoring

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
NM1	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L_{10}(30 min.) dB(A) L_{90}(30 min.) dB(A) L_{eq}(30 min.) dB(A)	Free Field
NM2					Free Field
NM3					Free Field

Monitoring Equipment

3.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.3** summarizes the noise monitoring equipment being used. Copies of calibration certificates are attached in **Appendix G**.

Table 3.3 Noise Monitoring Equipment

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

Monitoring Methodology and QA/QC Procedure

3.5 The monitoring procedures are as follows:

- The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - Frequency weighting: A
  - Time weighting: Fast
  - Time measurement: 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq}, L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

3.6 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.

3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.

3.8 Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

3.9 No Action/Limit Level exceedance was recorded for all construction noise monitoring in the reporting month.

3.10 Noise monitoring results and graphical presentations are shown in **Appendix H**.

3.11 The major noise sources identified at the noise monitoring stations are shown in **Table 3.4**.

Table 3.4 Other Noise Source Identified during Noise Monitoring

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

3.12 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq – Baseline Leq = CNL), in order to facilitate the interpretation of the noise exceedance. The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.

Table 3.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
NM1	63.4	75
NM2	58.0	
NM3	63.4	

Comparison of EM&A Result with EIA Prediction

3.13 The noise monitoring data was compared with the predictions in EIA Report (as approved in 2013) as summarised in **Table 3.6**.

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

Monitoring Stations	NSR ID	Predicted Mitigated Construction Noise Levels in EIA Report (as Approved in 2013), dB(A)	Reporting Month (August 2021), Leq (30min) dB(A)
NM1 - Wai Loi Tsuen	N/A	N/A(1)	53.7 – 58.5
NM2 - Fu Tei Au	N/A	N/A(1)	52.1 – 61.1
NM3 – Man Kok Village	FN-18	66-75	59.4 – 63.0

Remarks:
(1) No construction noise level was predicted in EIA Report (As Approved in 2013).

3.14 The results at NM3 were lower than the range of the predicted mitigated construction noise levels in the EIA Report (As Approved in 2013). Construction noise levels at NM1 and NM2 were not predicted in the EIA Report (As Approved in 2013).

4 ECOLOGY

Monitoring Requirements

4.1 According to the Updated EM&A Manual, waterbird species which use rivers near the Project Site were identified and recorded. The monitoring requirement in the EM&A Manual is shown in **Table 4.1**. **Appendix A** shows the established Action/Limit Levels for ecological monitoring works.

Table 4.1 Monitoring of Measures to Minimise Disturbance to Waterbirds on Ng Tung, Sheung Yue and Shek Sheung Rivers during Construction Phase

Phase	Methodology
Construction	Weekly transect at both high and low tides to identify and enumerate all bird species utilising the river channels and identify any sources of actual or potential disturbance to birds due to construction activities throughout the construction period.

4.2 The monitoring should be conducted by the ET and supervised by a qualified ecologist who will be a member of the ET.

Monitoring Locations

4.3 Transect and point count surveys were proposed within the 500m boundary of Ng Tung River, Sheung Yue River and Shek Sheung River of the assessment area. Three transects and seven-point count locations during high and low tides were applied. These locations are shown in **Figure 4** and summarized in **Table 4.2**. The photo of each transect is provided in **Appendix J**.

Table 4.2 Ecological Monitoring Stations

Monitoring Stations	Descriptions	Influenced by Tidal Action
Transect T1	Along Ng Tung River	No
Point Count Location P1		
Point Count Location P2		
Transect T2		Yes
Point Count Location P3		
Point Count Location P4		
Point Count Location P5	At Shek Sheung River (Low-flow Channel)	No
Transect T3	Along Shek Sheung River & Sheung Yue River	Yes
Point Count Location P6	At Shek Sheung River	Yes
Point Count Location P7	At Intersection between Sheung Yue River and Shek Sheung River	Yes

Monitoring Parameters, Frequency and Duration

4.4 Monitoring surveys were conducted on a weekly basis at both high and low tides (it is considered high tide when tidal levels are above 1.5m and low tide when tidal level are below 1.5m at Tsim Bei Tsui Station). The magnitude of how much above or below 1.5m was subject to tidal conditions of that week as it varied throughout different times of the year. Nonetheless, the high and low tide relative to that week's tidal condition were taken into consideration. The ecological monitoring schedule is shown in **Appendix B**.

Monitoring Methodology

4.5 Transect survey was undertaken along the concerned rivers (Ng Tung River, Sheung Yue River and Shek Sheung River) adjacent to proposed construction activities. As the sensitive receivers (large waterbirds) are easily visible and the surveyor has used auxiliary equipment such as camera(s) and binoculars (magnification 7-10x). The transect route only follows one bank of these rivers.

4.6 At point count locations, surveyors identified and recorded bird species which were seen or heard along the river channel. For each point count, surveyors quantitatively recorded all species seen and heard for the duration of five minutes up to the distance where birds were still detectable. All avifauna along the walk transect were recorded. Noticeable behaviours (e.g. breeding behaviours such as nesting and presence of recently fledged juveniles, roosting and feeding activities, etc.) were recorded as well.

4.7 Ornithological nomenclature used in report should follow *The Avifauna of Hong Kong* (Carey et al. (2001)), *The Birds of Hong Kong and South China* (Viney et al. (2005)) and the most recent updated list from other sources (e.g. Hong Kong Bird Watching Society).

4.8 Weather conditions, tidal information at the time of the survey and other noticeable activities occurring within or in the vicinity of the survey areas (e.g. ongoing routine drainage channel maintenance works and other human activities that could create disturbances to birds) were recorded.

Analytical Methodology

4.9 The number and species of waterbirds utilizing the rivers fluctuate every day naturally. Therefore, the survey data were collectively analysed on a monthly basis to increase the sample size and to reduce random error on one survey day. Since occurrence of waterbirds has distinctive seasonal pattern, the construction phase data for all waterbirds and representative waterbirds were compared with the baseline data for the respective month and season. The representatives of waterbirds are listed in **Table 4.3**.

Table 4.3 Representative Waterbirds

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

4.10 When a decline in abundance of all or representative waterbird is identified, one-tailed Student t-test was adopted to statistically analyse whether the drop is significant. If the collected data for the reporting month fails to show no significant difference from that in the baseline phase at 95% confidence level, the action level will be triggered. Likewise, the limit level is set at 99% confidence level.

4.11 In addition, if important behaviours such as breeding, brooding, nesting and presence of recently fledged juveniles of species of conservation importance are observed, the Resident Engineer, Contractor and IEC should be notified immediately after the survey. The Contractor should review current construction programme and minimize disturbance due to construction activities.

Results

4.12 For this reporting month, the numbers of species and individuals recorded were provided in **Table 4.4**. The photo record of waterbirds can be found in **Appendix J**.

Table 4.4 Total Bird Species and Abundance in the Reporting Month

	Number of Species	Abundance
All Avifauna	30	401
Waterbirds	10	137

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

Table 4.5 Abundance of Representative Waterbirds in the Reporting Month

Species Name	Common Name	Chinese Name	Abundance
Egretta garzetta	Little Egret	小白鷺	58
Ardea cinerea	Grey Heron	蒼鷺	0
Ardeola bacchus	Chinese Pond Heron	池鷺	52
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	0
Ardea alba	Great Egret	大白鷺	12
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	12

Analysis

4.14 The result of student t-tests for all waterbirds and representative waterbirds are compiled in **Table 4.6** and **4.7** respectively. Further details are provided in **Appendix I**.

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

T-values of Data in Reporting Month			Confidence Level (Critical Value)	
			95% (-2.353)	99% (-4.541)
Abundance	Monthly	-1.492	✓	✓
	Seasonal	-6.019	✕	✕

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

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

Common Name of Representative Waterbird	T-value	Confidence Level (Critical Value)		T-value	Confidence Level (Critical Value)		Overall
	Monthly	95% (-2.353)	99% (-4.541)	Seasonal	95% (-2.353)	99% (-4.541)	
Little Egret	-2.251	✓	✓	-3.877	✕	✓	✓
Grey Heron	N/A*						
Chinese Pond Heron	-1.768	✓	✓	-4.503	✕	✓	✓
Great Cormorant	N/A*						
Great Egret	0.926	✓	✓	0.365	✓	✓	✓
Eastern Cattle Egret	2.315	✓	✓	-0.292	✓	✓	✓

Remarks
✔ = T-value falls within the confidence level, the impact monitoring data shows no significant difference to the baseline data.
✖ = T-value falls outside the confidence level, the impact monitoring data shows significant difference to the baseline data.
* Great Cormorant (*Phalacrocorax carbo*) and Grey Heron (*Ardea cinerea*) were not recognised as representative waterbird species during Summer.

4.15 No Action Level and Limit Level was triggered for ecological monitoring in the reporting month.

4.16 The monitoring work will continue next month to evaluate any construction impact on waterbirds.

Observations

4.17 Waterbird behaviour observed during ecological monitoring are listed below:

- Flying
- Foraging
- Soaring
- Resting

4.18 The anthropogenic activities observed during ecological monitoring are listed in **Table 4.8**.

Table 4.8 Observations during Ecological Monitoring in the Reporting Month

Location	Observations	
	Project Related	**Non-project Related**
T1 (PC1, PC2)	N/A	Generator and sedimentation tank
T2 (PC3, PC4)	Crane	Excavation
PC5	N/A	N/A
T3 (PC6, PC7)	N/A	Lorry with grabber, jaywalking, playing with R.C. drone, fishing

5 WATER QUALITY

Monitoring Requirement

5.1 According to the Updated EM&A Manual, no water monitoring is required before the commencement of outfall construction at Ng Tung River.

5.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix K**.

6 WASTE MANAGEMENT

Monitoring Requirement

6.1 According to the Updated EM&A Manual, waste management would be the contractor's responsibility to ensure that all wastes produced during the construction works for the Project are handled, stored and disposed of in accordance with good waste management practices, EPD's regulations and requirements. No monitoring for waste management is required for the Project. An environmental management plan (EMP) should be prepared and submitted to the Supervisor for approval. The monitoring and auditing requirements of the EMP should be followed with regard to the management of C&D material.

Waste Management Status

6.2 Site audits were carried out on a weekly basis to monitor and audit to ensure that proper storage, transportation and disposal practices of waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse are being implemented. The summaries of site audits are attached in **Appendix K**.

6.3 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix L**.

7 LANDSCAPE AND VISUAL

Audit Requirement

7.1 According to the Updated EM&A Manual, site audits would be undertaken during the construction phase of the Project to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. Particularly audits would be carried out during site clearance when proposed tree felling and transplantation may occur. Site inspections would be undertaken at least once every two weeks during the construction period.

7.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix K**.

8 ENVIRONMENTAL AUDIT

Site Audits

8.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix K**.

8.2 Site audits for Contract No. DC/2018/06 and DC/2018/07 were conducted on 6, 13, 17, 24 & 31 August 2021 in the reporting month, whereas that for Contract No. DE/2018/03 and DE/2018/04 were conducted on 3, 10, 17, 24 & 31 August 2021 in the reporting month. Joint site inspection with the representative of IEC was conducted on 24 August 2021. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

8.3 According to Environmental Permits, the approved EIA Report (Register No.: AEIAR-175/2013), and the Updated EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix N**.

8.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Tables 8.1 - 8.4**. Refer to **Appendix K** for the site inspection summary reports in the reporting month.

Table 8.1 Observations and Recommendations of Site Audit of Contract No. DC/2018/06

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	N/A	There was no observation in the reporting period.	N/A
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Visual and Landscape	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Table 8.2 Observations and Recommendations of Site Audit of Contract No. DC/2018/07

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	N/A	There was no observation in the reporting period.	N/A
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Visual and Landscape	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

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

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	N/A	There was no observation in the reporting period.	N/A
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Visual and Landscape	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

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

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	N/A	There was no observation in the reporting period.	N/A
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Visual and Landscape	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

8.5 The Event and Action Plans for air quality, construction noise, ecological monitoring and landscape and visual are presented in **Appendix M**.

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

Construction Noise Monitoring

- No documented complaint on construction noise was received; no Action Level exceedance for day time construction noise monitoring was recorded.
- No Limit Level exceedance for day time construction noise monitoring was recorded in the reporting month.

Ecological Monitoring

- No Action and Limit Level was triggered.

Landscape and Visual Monitoring

- No non-conformity for landscape and visual was recorded.

9 ENVIRONMENTAL NON-CONFORMANCE

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

9.1 1 environmental complaint regarding air nuisance from SWHEPP was received in the reporting month.

9.2 No environmental warning, notifications of summons and successful prosecutions were received in the reporting month.

9.3 The summary of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix O**.

Summary of Exceedance

9.4 The summary of exceedance record in reporting month is shown in **Appendix P**.

10 FUTURE KEY ISSUES

10.1 Tentative construction programmes for the next three months are provided in **Appendix Q**.

10.2 Major site activities undertaken for the coming months are summarized in **Table 10.1**.

Table 10.1 Summary Table for Site Activities in the Next Reporting Period

Contract No.	Contract Title	Site Activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	• RC works • Wall and slab construction • Backfilling • Pipe laying • Pipe jacking work • Excavation works • Road works
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	• ELS and construction of inlet reception chamber • Trench excavation • Road and drainage works • Diversion of inlet works • Process pipe of CHR and CHS • Pre-drilling work and foundation work • Cable diversion works • Demolition work of existing main facilities • Alternation of existing powerhouse • Pre-bored H piles • Sheet pile installation
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	• Ground investigation • Installation of F.S. equipment • Installation of power cable • Installation of EOT crane • Installation of cable tray, conduit • ELS works • Installation of guide bar bracket, guide bar and placing the effluent transfer pump
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	• Electrical installation of temporary filtrate equalisation tank • Testing and commission of temporary primary sludge thickener and its accessories • Retrofitting the existing primary sedimentation tank No. 6 • Modification of existing emergency generator electrical works

10.3 Key environmental issues in the coming months include:

- Stockpile accumulation on-site;
- Water spraying for dust generating activities and on haul road;
- Wastewater and runoff discharge from site;
- No disposition of slurry at the existing Shek Wu Hui Sewage Treatment Works;
- Coverage of open manholes to avoid dirty runoff to drainage system;
- Noise from operation of the equipment, especially for excavation works and machinery onsite;
- Accumulation of general refuse and construction waste on-site;
- Proper storage of construction materials on-site; and
- Storage of chemicals/fuel and chemical waste/waste oil on-site.

Monitoring Schedule

10.4 The tentative environmental monitoring schedule for the next month is shown in **Appendix B**.

11 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

11.1 This is the 20th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the Updated EM&A Manual and the requirement under EP.

Air Quality Monitoring

11.2 No Action/Limit Level exceedance was recorded for all 1-hour and 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

11.3 No Action/Limit Level exceedance was recorded for all noise monitoring in the reporting month.

Ecology

11.4 No Action and Limit Level exceedance was triggered for all ecological monitoring in the reporting month.

Site Audit

11.5 5 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

11.6 1 environmental complaint was received in the reporting month.

11.7 No notifications of summons and successful prosecutions were received in the reporting month.

Recommendations

11.8 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality

- Regular water spraying on haul road and dry surfaces should be applied to minimize dust generation.
- Stockpiles should be covered by impervious materials.

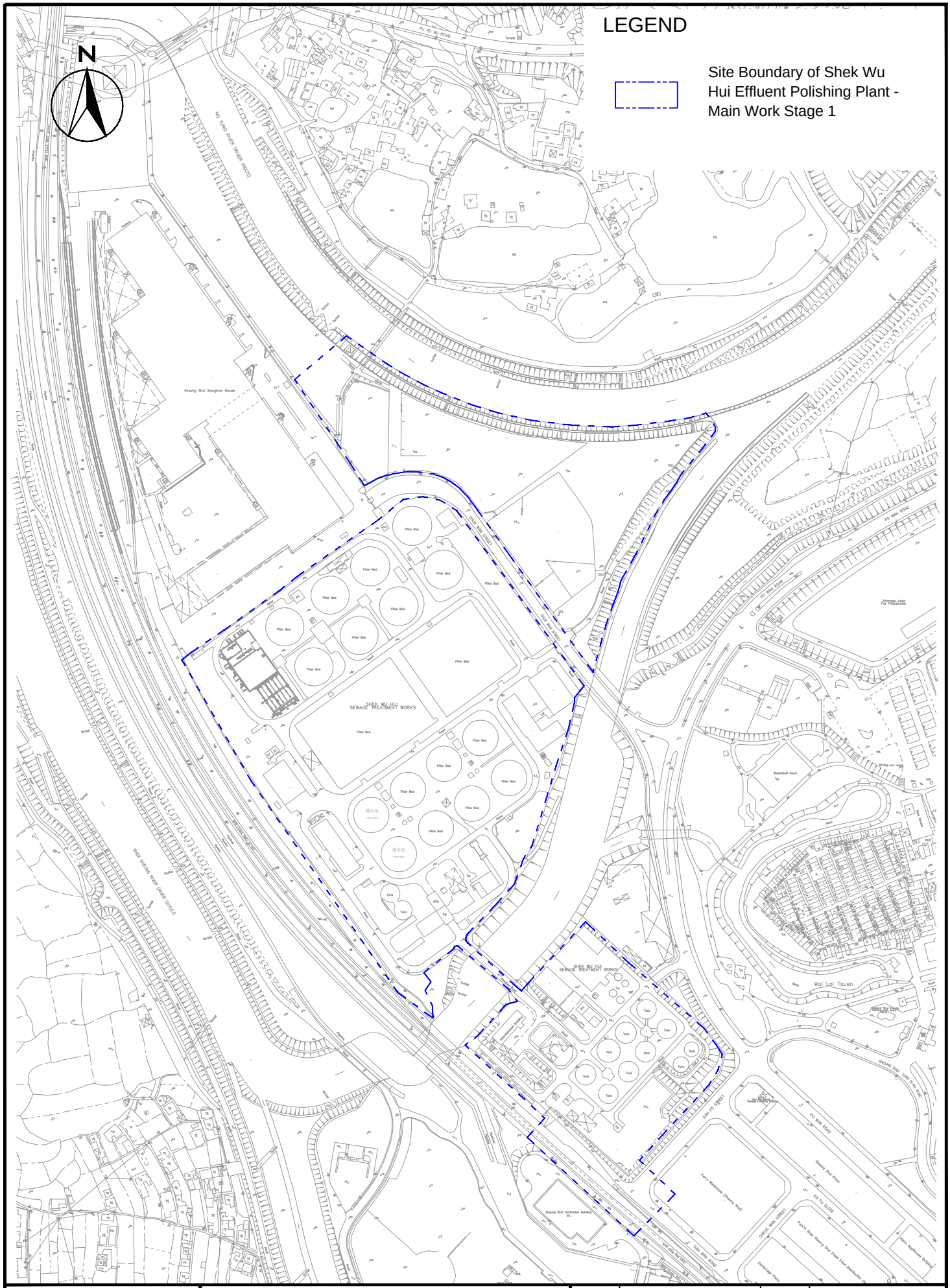
Water Quality

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

Waste Management

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

FIGURES



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		JOB No.: MA19019	FIGURE NO.: 1.1
			REV: -

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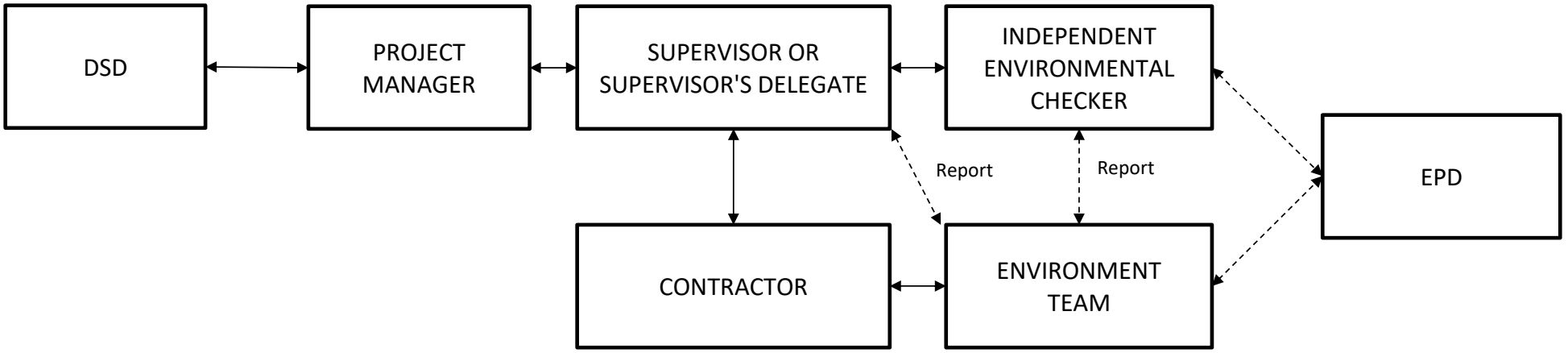

CINOTECH

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

Project Organisation For Environmental Monitoring and Audit

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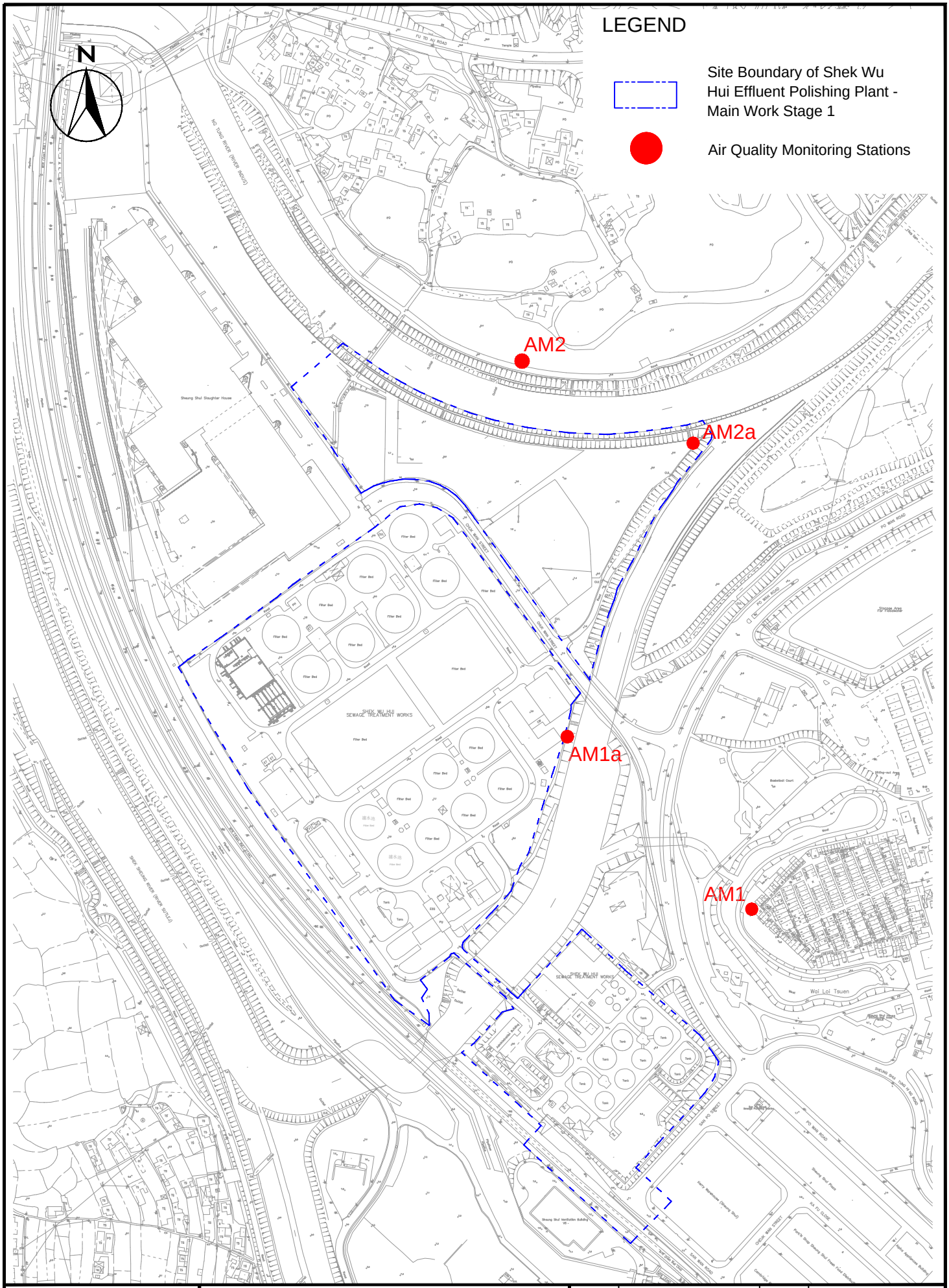
CHECK	JM	**DRAWN**	SY
JOB NO.	MA19019	**FIGURE NO.**	1.2



CINOTECH Cinotech Consultants Limited	Agreement No. SPW07/2019 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Location of Air Quality Monitoring Stations	SCALE: 1:4000@A4	DATE: OCT 2019
		CHECK: JM	DRAWN: SY
		JOB No.: MA19019	FIGURE NO.: 2 / REV: -

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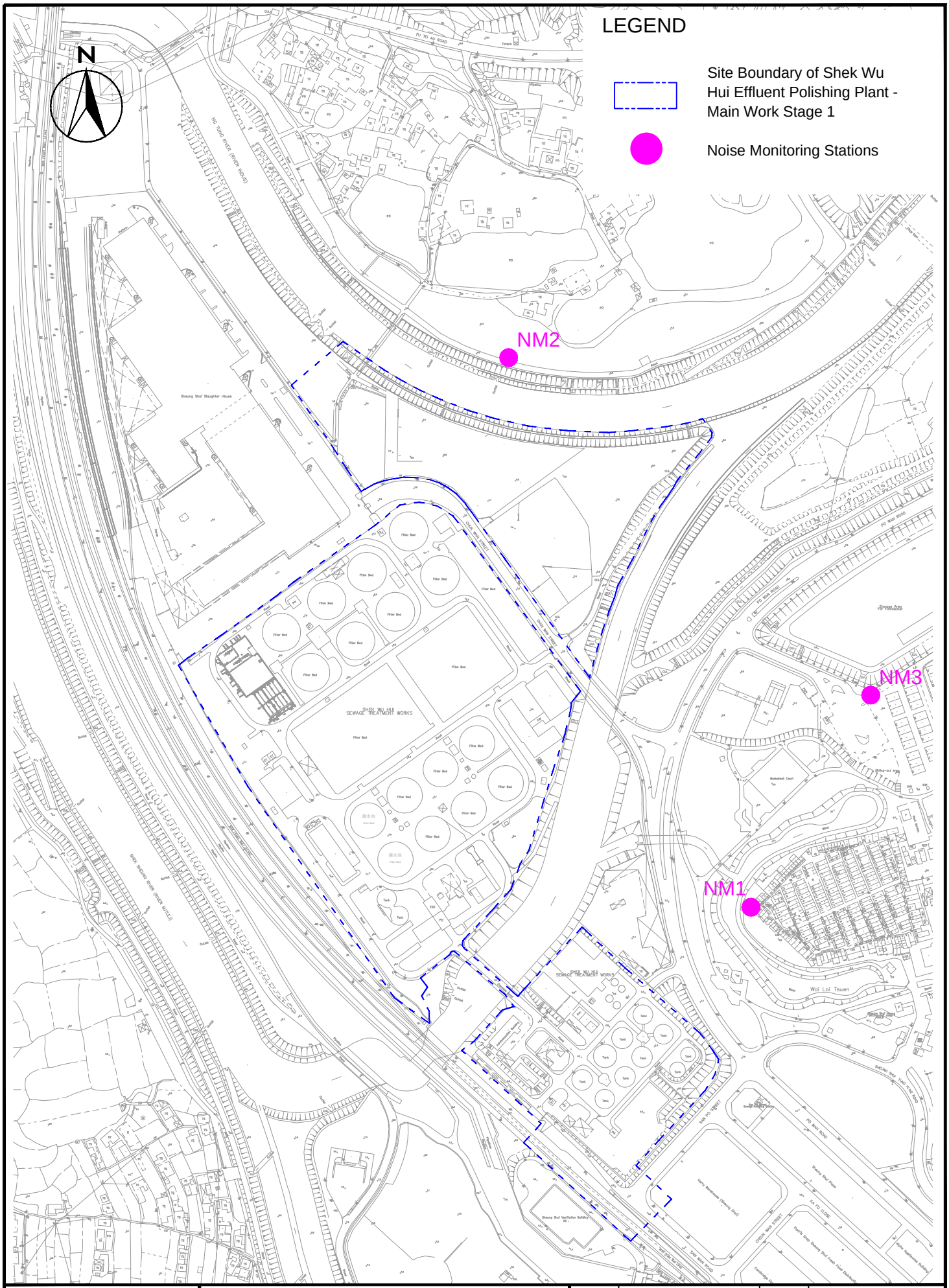


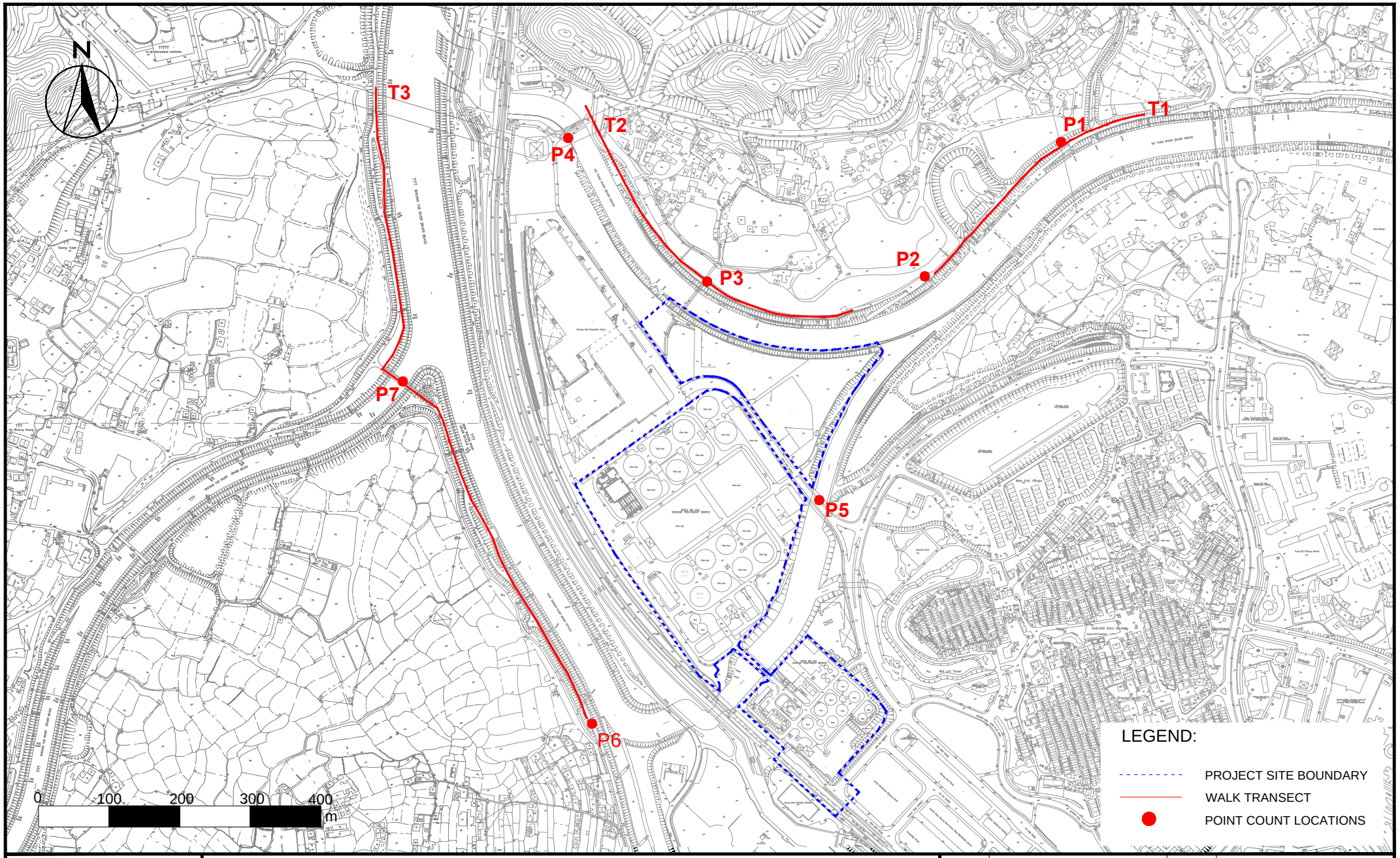
CINOTECH
Cinotech Consultants Limited

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

Location of Noise Monitoring Stations

SCALE	1:4000@A4	DATE	OCT 2019
CHECK	JM	DRAWN	SY
JOB No.	MA19019	FIGURE NO. 3	REV -

F:/Project_drawings



CINOTECH
Cinotech Consultants Limited

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Survey Location for Impact Ecological Monitoring

SCALE	1:7000 @ A4	DATE	Jan 2020
CHECK	BC	DRAWN	JM
JOB No.	MA19019	FIGURE NO. 4	REV -

APPENDIX A
ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

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

Location	Action Level, µg/m^3	Limit Level, µg/m^3
AM1	320	500
AM2	322	

Table A-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	

Table A-3 Action and Limit Levels for Noise during Construction Period

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)*

*Remarks:

- If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) used by the Noise Control Authority have to be followed.
- Reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

Table A-4 Action and Limit Levels of Disturbance to Waterbirds using Ng Tung, Sheung Yue and Shek Sheung Rivers during Construction Phase

Action Level	Limit Level
Decline in numbers of all waterbird species relative to numbers during Baseline Monitoring such that the Action Level response is triggered.	Decline in numbers of all waterbird species relative to numbers during baseline monitoring such that the limit level response is triggered.
Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Action Level response is triggered.	Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Limit Level response is triggered.

Note: Whether numbers are significant depend on species and season after collection and evaluation of baseline survey data.

APPENDIX B
ENVIRONMENTAL MONITORING SCHEDULES

Agreement No. SPW 07/2019
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
Tentative Impact Air, Noise and Ecology Monitoring Schedule (August 2021)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug
	1 hr TSP x 3 Noise			24 hrs TSP Ecology	1 hr TSP x 3 Noise	
8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug
	Ecology		24 hrs TSP	1 hr TSP x 3 Noise		
15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug
		24 hrs TSP	1 hr TSP x 3 Noise		Ecology	
22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug
	24 hrs TSP Ecology	1 hr TSP x 3 Noise				24 hrs TSP
29-Aug	30-Aug	31-Aug				
	1 hr TSP x 3 Noise					

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Air Quality Monitoring Station
1-hr TSP
AM1 - Wai Loi Tsuen
AM2 - Fu Tei Au

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

Noise Monitoring Station

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

APPENDIX C
COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration 2-Aug-21

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record 2-Oct-21

Model No.: LD-5R

Serial No.: 972777

Equipment No.: SA-01-06 — Sensitivity 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment 645

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment 645

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor** Mass Concentration (µg/m3) **X-axis**	**HVS** Mass concentration (µg/m^3) **Y-axis**
1	60.0	131.0
2	52.0	125.0
3	43.0	116.0
Average	**51.7**	**124.0**

By Linear Regression of Y on X

Slope , mw = **0.8848** **Intercept, bw =** **78.2857**

Correlation coefficient* = **0.9967**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	124.0
Particaulate Concentration by Dust Meter (µg/m^3)	51.7
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **2.4**

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator
Date of Calibration 2-Aug-21
Manufacturer: Sibata Scientific Technology LTD.
Validity of Calibration Record 2-Oct-21
Model No.: LD-5R
Serial No.: 972778
Equipment No.: SA-01-07
Sensitivity 0.001 mg/m3
High Volume Sampler No.: A-01-03
Before Sensitivity Adjustment 735 CPM
Tisch Calibration Orifice No.: 3864
After Sensitivity Adjustment 735 CPM

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	61.0	131.0
2	56.0	125.0
3	48.0	116.0
Average	**55.0**	**124.0**

By Linear Regression of Y on X

Slope , mw = **1.1512** **Intercept, bw =** **60.6860**

Correlation coefficient* = **0.9998**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	124.0
Particaulate Concentration by Dust Meter (µg/m^3)	55.0
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **2.3**

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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

Calibrated by: _____
Technical Officer (Wong Shing Kwai)

Approved by: _____
Project Manager (Henry Leung)

TISCH Environmental

RECALIBRATION DUE DATE:
January 11, 2022

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	January 11, 2021	**Rootsmeter S/N:** 438320	**Ta:** 297	°K
Operator:	Jim Tisch		**Pa:** 750.1	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **3864**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4470	3.2	2.00
2	3	4	1	1.0210	6.4	4.00
3	5	6	1	0.9140	8.0	5.00
4	7	8	1	0.8670	8.8	5.50
5	9	10	1	0.7140	12.9	8.00

Data Tabulation

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

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

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

RECALIBRATION

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

isch Environmental, Inc.
45 South Miami Avenue
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www.tisch-env.com
TOLL FREE: (877)263-7610
FAX: (513)467-9009

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA19019/17/0011

Project No. AM1a - Site boundary of the Shek Wu Hui STW (East)

Date: 6-Jul-21 Next Due Date: 6-Sep-21 Operator: SK

Equipment No.: A-01-17 Model No.: GS2310 Serial No. 3460

Ambient Condition			
Temperature, Ta (K)	302.4	Pressure, Pa (mmHg)	754.7

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	11-Jan-22	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

.

Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ **Y-axis**
1	13.2	3.59	61.53	10.1	3.14
2	10.4	3.19	54.62	7.5	2.71
3	8.1	2.82	48.21	5.6	2.34
4	5.4	2.30	39.38	3.4	1.82
5	2.8	1.66	28.37	1.9	1.36

By Linear Regression of Y on X

Slope , mw = 0.0540 **Intercept, bw =** -0.2321

Correlation coefficient* = 0.9968

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.47**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 6-Jul-21

Checked by: Henry Leung Signature: Date: 6-Jul-21

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA19019/24/0011

Project No. AM2a - Site Boundary of the Shek Wu Hui STW (North)

Date: 6-Jul-21 Next Due Date: 6-Sep-21 Operator: SK

Equipment No.: A-01-24 Model No.: TE 5170 Serial No. 1659

Ambient Condition			
Temperature, Ta (K)	302.4	Pressure, Pa (mmHg)	754.7

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	11-Jan-22	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

.

Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.3	3.61	61.76	10.3	3.17
2	10.8	3.25	55.66	8.3	2.85
3	8.5	2.88	49.39	6.1	2.44
4	6.3	2.48	42.53	4.0	1.98
5	3.0	1.71	29.36	1.8	1.33

By Linear Regression of Y on X

Slope , mw = **0.0581** **Intercept, bw =** **-0.4176**

Correlation coefficient* = **0.9980**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.42**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 6-Jul-21

Checked by: Henry Leung Signature: Date: 6-Jul-21

Certificate of Calibration - Wind Monitoring Station

Description:	BM3 - Control Room at SWHSTW
Manufacturer:	Global Water Instrumentation
Model No.:	WE800 Weather Station
Serial No.:	1517001963
Equipment No.:	SA-03-01
Date of Calibration	29-Apr-2021
Next Due Date	29-Oct-2021

1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V1)	D = V1 – V2
0.0	0.0	0.0
1.5	1.5	0.0
2.0	2.2	-0.2
3.0	3.0	0.0

2. Performance check of Wind Direction

Wind Direction (^{o})		Difference D (^{o})
Wind Direction Reading (V1)	Marine Compass Value (V1)	D = W1 - W2
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

Test Specification:

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer

2. Performance Wind Direction Test - The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by: _____ Wong Shing Kwai

Approved by: _____ Henry Leung

APPENDIX D
WEATHER INFORMATION

APPENDIX D – WEATHER CONDITIONS DURING THE MONITORING PERIOD

I. General Information from Hong Kong Observatory

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1-Aug-21	29.4	83	11.6
2-Aug-21	30.0	80	Trace
3-Aug-21	28.2	88	19.7
4-Aug-21	28.2	85	41.9
5-Aug-21	27.6	90	28.1
6-Aug-21	28.3	89	31.0
7-Aug-21	28.8	85	0.0
8-Aug-21	29.3	85	3.1
9-Aug-21	29.1	85	36.3
10-Aug-21	29.0	87	17.3
11-Aug-21	29.5	84	3.0
12-Aug-21	29.0	82	1.0
13-Aug-21	28.6	83	5.4
14-Aug-21	28.0	85	2.2
15-Aug-21	27.3	87	5.7
16-Aug-21	28.3	83	3.9
17-Aug-21	29.5	78	0.0
18-Aug-21	29.5	77	0.0
19-Aug-21	28.6	84	34.6
20-Aug-21	29.5	77	Trace
21-Aug-21	29.8	76	0.0
22-Aug-21	30.1	74	0.0
23-Aug-21	30.2	75	Trace
24-Aug-21	29.6	79	23.7
25-Aug-21	29.7	79	1.1
26-Aug-21	29.7	80	2.2
27-Aug-21	25.6	89	29.3
28-Aug-21	26.9	81	22.0
29-Aug-21	27.8	83	13.9
30-Aug-21	29.1	81	Trace
31-Aug-21	27.3	88	13.5

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

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
1-Aug-21	0:00	112.7	0.1
1-Aug-21	1:00	221.4	0.1
1-Aug-21	2:00	225.9	0.1
1-Aug-21	3:00	221.6	0.1
1-Aug-21	4:00	12.8	0.1
1-Aug-21	5:00	248.1	0.1
1-Aug-21	6:00	248.1	0.1
1-Aug-21	7:00	269.0	0.4
1-Aug-21	8:00	245.6	0.2
1-Aug-21	9:00	243.8	1.7
1-Aug-21	10:00	251.7	2.6
1-Aug-21	11:00	266.9	1.4
1-Aug-21	12:00	247.3	0.5
1-Aug-21	13:00	245.1	0.1
1-Aug-21	14:00	215.4	1.1
1-Aug-21	15:00	224.1	1.2
1-Aug-21	16:00	285.1	0.3
1-Aug-21	17:00	266.4	0.5
1-Aug-21	18:00	283.1	0.1
1-Aug-21	19:00	123.2	0.1
1-Aug-21	20:00	198.1	0.0
1-Aug-21	21:00	255.6	0.3
1-Aug-21	22:00	328.2	0.2
1-Aug-21	23:00	275.8	0.1
2-Aug-21	0:00	270.8	0.1
2-Aug-21	1:00	216.6	0.1
2-Aug-21	2:00	208.7	0.1
2-Aug-21	3:00	218.4	0.1
2-Aug-21	4:00	219.5	0.1
2-Aug-21	5:00	156.4	0.1
2-Aug-21	6:00	153.0	0.1
2-Aug-21	7:00	224.6	0.1
2-Aug-21	8:00	181.4	0.1
2-Aug-21	9:00	261.5	0.1
2-Aug-21	10:00	253.7	0.2
2-Aug-21	11:00	236.0	0.6
2-Aug-21	12:00	246.7	1.1
2-Aug-21	13:00	241.7	0.3
2-Aug-21	14:00	251.7	1.0
2-Aug-21	15:00	218.9	0.3
2-Aug-21	16:00	222.8	3.0
2-Aug-21	17:00	164.8	0.6
2-Aug-21	18:00	213.7	0.1
2-Aug-21	19:00	47.3	1.2

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
2-Aug-21	20:00	240.3	0.1
2-Aug-21	21:00	100.2	0.1
2-Aug-21	22:00	60.6	0.1
2-Aug-21	23:00	46.7	0.1
3-Aug-21	0:00	128.7	0.1
3-Aug-21	1:00	64.4	0.1
3-Aug-21	2:00	65.1	0.1
3-Aug-21	3:00	76.9	0.1
3-Aug-21	4:00	64.4	0.1
3-Aug-21	5:00	74.9	0.1
3-Aug-21	6:00	74.5	0.1
3-Aug-21	7:00	213.1	0.1
3-Aug-21	8:00	59.4	0.1
3-Aug-21	9:00	93.1	0.5
3-Aug-21	10:00	96.8	1.1
3-Aug-21	11:00	101.9	1.0
3-Aug-21	12:00	66.1	1.2
3-Aug-21	13:00	93.3	0.2
3-Aug-21	14:00	118.6	0.3
3-Aug-21	15:00	84.5	0.3
3-Aug-21	16:00	86.0	0.2
3-Aug-21	17:00	69.2	0.2
3-Aug-21	18:00	75.9	0.1
3-Aug-21	19:00	61.9	0.2
3-Aug-21	20:00	75.2	0.2
3-Aug-21	21:00	74.9	0.1
3-Aug-21	22:00	79.5	0.1
3-Aug-21	23:00	76.5	0.1
4-Aug-21	0:00	87.7	0.1
4-Aug-21	1:00	53.9	0.1
4-Aug-21	2:00	164.4	0.1
4-Aug-21	3:00	75.7	0.1
4-Aug-21	4:00	136.0	0.1
4-Aug-21	5:00	71.9	0.1
4-Aug-21	6:00	124.3	0.2
4-Aug-21	7:00	131.9	0.2
4-Aug-21	8:00	165.7	0.1
4-Aug-21	9:00	55.7	0.1
4-Aug-21	10:00	186.1	0.2
4-Aug-21	11:00	66.6	0.2
4-Aug-21	12:00	353.2	0.3
4-Aug-21	13:00	179.7	0.2
4-Aug-21	14:00	221.4	0.8
4-Aug-21	15:00	232.5	1.0

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
4-Aug-21	16:00	185.5	0.6
4-Aug-21	17:00	181.0	0.2
4-Aug-21	18:00	180.5	0.2
4-Aug-21	19:00	273.3	1.0
4-Aug-21	20:00	236.4	0.5
4-Aug-21	21:00	129.0	0.2
4-Aug-21	22:00	284.1	0.3
4-Aug-21	23:00	217.8	0.3
5-Aug-21	0:00	260.0	0.2
5-Aug-21	1:00	242.3	0.3
5-Aug-21	2:00	286.6	0.7
5-Aug-21	3:00	256.3	1.0
5-Aug-21	4:00	220.2	1.0
5-Aug-21	5:00	232.6	1.0
5-Aug-21	6:00	275.7	1.0
5-Aug-21	7:00	256.1	1.0
5-Aug-21	8:00	237.3	1.9
5-Aug-21	9:00	244.8	1.2
5-Aug-21	10:00	278.3	1.4
5-Aug-21	11:00	231.2	2.1
5-Aug-21	12:00	260.6	2.4
5-Aug-21	13:00	257.4	1.0
5-Aug-21	14:00	141.5	0.5
5-Aug-21	15:00	248.4	0.5
5-Aug-21	16:00	261.5	0.5
5-Aug-21	17:00	252.7	0.5
5-Aug-21	18:00	295.2	0.5
5-Aug-21	19:00	231.0	0.5
5-Aug-21	20:00	177.4	0.6
5-Aug-21	21:00	344.9	0.8
5-Aug-21	22:00	193.0	0.9
5-Aug-21	23:00	191.4	1.0
6-Aug-21	0:00	102.7	1.0
6-Aug-21	1:00	215.9	1.1
6-Aug-21	2:00	183.9	1.0
6-Aug-21	3:00	284.3	1.0
6-Aug-21	4:00	237.9	1.0
6-Aug-21	5:00	254.9	1.0
6-Aug-21	6:00	308.0	1.0
6-Aug-21	7:00	242.1	1.1
6-Aug-21	8:00	265.9	1.2
6-Aug-21	9:00	249.8	1.2
6-Aug-21	10:00	248.1	2.6
6-Aug-21	11:00	237.9	1.9

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
6-Aug-21	12:00	263.9	1.6
6-Aug-21	13:00	276.1	1.0
6-Aug-21	14:00	230.3	0.9
6-Aug-21	15:00	271.2	0.3
6-Aug-21	16:00	301.4	0.4
6-Aug-21	17:00	294.9	0.3
6-Aug-21	18:00	228.1	0.1
6-Aug-21	19:00	267.1	0.1
6-Aug-21	20:00	285.4	0.1
6-Aug-21	21:00	269.0	0.1
6-Aug-21	22:00	232.7	0.1
6-Aug-21	23:00	164.8	0.1
7-Aug-21	0:00	233.6	0.1
7-Aug-21	1:00	227.5	0.1
7-Aug-21	2:00	269.3	0.5
7-Aug-21	3:00	218.0	0.1
7-Aug-21	4:00	261.1	0.1
7-Aug-21	5:00	265.8	0.1
7-Aug-21	6:00	267.2	0.1
7-Aug-21	7:00	250.7	0.1
7-Aug-21	8:00	264.8	0.2
7-Aug-21	9:00	173.0	0.3
7-Aug-21	10:00	196.1	0.4
7-Aug-21	11:00	256.7	0.5
7-Aug-21	12:00	280.3	1.7
7-Aug-21	13:00	208.1	0.8
7-Aug-21	14:00	85.2	0.2
7-Aug-21	15:00	176.1	0.1
7-Aug-21	16:00	92.4	0.2
7-Aug-21	17:00	166.8	0.2
7-Aug-21	18:00	46.8	0.2
7-Aug-21	19:00	30.5	0.1
7-Aug-21	20:00	101.8	0.1
7-Aug-21	21:00	230.9	0.1
7-Aug-21	22:00	179.9	0.1
7-Aug-21	23:00	283.0	0.1
8-Aug-21	0:00	108.5	0.1
8-Aug-21	1:00	63.0	0.1
8-Aug-21	2:00	50.2	0.1
8-Aug-21	3:00	178.2	0.1
8-Aug-21	4:00	77.8	0.1
8-Aug-21	5:00	77.8	0.1
8-Aug-21	6:00	263.0	0.1
8-Aug-21	7:00	175.7	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
8-Aug-21	8:00	225.8	0.1
8-Aug-21	9:00	232.8	0.8
8-Aug-21	10:00	260.1	0.4
8-Aug-21	11:00	260.4	0.4
8-Aug-21	12:00	268.5	0.1
8-Aug-21	13:00	219.7	1.7
8-Aug-21	14:00	321.7	0.1
8-Aug-21	15:00	110.1	0.1
8-Aug-21	16:00	237.9	0.1
8-Aug-21	17:00	106.1	0.1
8-Aug-21	18:00	44.4	0.1
8-Aug-21	19:00	147.7	0.1
8-Aug-21	20:00	58.2	0.1
8-Aug-21	21:00	212.3	0.1
8-Aug-21	22:00	62.9	0.1
8-Aug-21	23:00	57.7	0.1
9-Aug-21	0:00	189.5	0.1
9-Aug-21	1:00	154.4	0.2
9-Aug-21	2:00	39.3	0.1
9-Aug-21	3:00	52.8	0.1
9-Aug-21	4:00	133.5	0.1
9-Aug-21	5:00	97.5	0.1
9-Aug-21	6:00	77.2	0.1
9-Aug-21	7:00	186.4	0.1
9-Aug-21	8:00	148.1	0.1
9-Aug-21	9:00	205.4	0.3
9-Aug-21	10:00	233.9	2.2
9-Aug-21	11:00	242.1	0.6
9-Aug-21	12:00	209.4	0.9
9-Aug-21	13:00	194.8	1.0
9-Aug-21	14:00	171.2	0.3
9-Aug-21	15:00	207.7	0.5
9-Aug-21	16:00	225.5	0.4
9-Aug-21	17:00	262.1	0.8
9-Aug-21	18:00	131.3	0.4
9-Aug-21	19:00	132.7	0.2
9-Aug-21	20:00	96.7	0.1
9-Aug-21	21:00	77.4	0.1
9-Aug-21	22:00	81.8	0.1
9-Aug-21	23:00	74.3	0.1
10-Aug-21	0:00	95.6	0.1
10-Aug-21	1:00	31.2	0.1
10-Aug-21	2:00	61.0	0.1
10-Aug-21	3:00	84.3	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
10-Aug-21	4:00	68.0	0.1
10-Aug-21	5:00	73.0	0.1
10-Aug-21	6:00	94.6	0.1
10-Aug-21	7:00	79.0	0.1
10-Aug-21	8:00	216.7	0.6
10-Aug-21	9:00	317.7	0.3
10-Aug-21	10:00	200.2	0.4
10-Aug-21	11:00	58.7	0.3
10-Aug-21	12:00	107.0	0.3
10-Aug-21	13:00	181.2	0.3
10-Aug-21	14:00	156.6	0.4
10-Aug-21	15:00	221.4	0.7
10-Aug-21	16:00	227.4	0.4
10-Aug-21	17:00	242.7	0.3
10-Aug-21	18:00	107.4	0.3
10-Aug-21	19:00	98.5	0.3
10-Aug-21	20:00	91.5	0.3
10-Aug-21	21:00	75.7	0.3
10-Aug-21	22:00	107.7	0.3
10-Aug-21	23:00	58.3	0.2
11-Aug-21	0:00	43.7	0.2
11-Aug-21	1:00	65.6	0.1
11-Aug-21	2:00	50.1	0.1
11-Aug-21	3:00	76.6	0.1
11-Aug-21	4:00	91.2	0.1
11-Aug-21	5:00	174.9	0.1
11-Aug-21	6:00	140.4	0.1
11-Aug-21	7:00	192.0	0.1
11-Aug-21	8:00	149.3	0.1
11-Aug-21	9:00	237.0	0.1
11-Aug-21	10:00	251.5	0.2
11-Aug-21	11:00	283.8	0.4
11-Aug-21	12:00	242.3	2.0
11-Aug-21	13:00	263.0	0.3
11-Aug-21	14:00	209.0	0.7
11-Aug-21	15:00	205.3	0.3
11-Aug-21	16:00	67.7	0.1
11-Aug-21	17:00	253.2	0.1
11-Aug-21	18:00	167.1	0.1
11-Aug-21	19:00	187.6	0.1
11-Aug-21	20:00	118.5	0.1
11-Aug-21	21:00	89.3	0.1
11-Aug-21	22:00	151.3	0.1
11-Aug-21	23:00	173.9	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
12-Aug-21	0:00	203.5	0.1
12-Aug-21	1:00	195.5	0.1
12-Aug-21	2:00	221.2	0.1
12-Aug-21	3:00	51.8	0.1
12-Aug-21	4:00	75.4	0.1
12-Aug-21	5:00	85.8	0.1
12-Aug-21	6:00	35.1	0.1
12-Aug-21	7:00	75.5	0.1
12-Aug-21	8:00	123.0	0.1
12-Aug-21	9:00	152.8	0.1
12-Aug-21	10:00	160.2	0.5
12-Aug-21	11:00	46.7	0.1
12-Aug-21	12:00	102.5	0.1
12-Aug-21	13:00	109.3	0.4
12-Aug-21	14:00	141.2	0.1
12-Aug-21	15:00	144.5	0.5
12-Aug-21	16:00	192.8	0.1
12-Aug-21	17:00	269.5	0.1
12-Aug-21	18:00	155.2	0.1
12-Aug-21	19:00	88.7	0.1
12-Aug-21	20:00	93.5	0.1
12-Aug-21	21:00	69.6	0.1
12-Aug-21	22:00	167.8	0.1
12-Aug-21	23:00	30.7	0.1
13-Aug-21	0:00	95.4	0.1
13-Aug-21	1:00	189.5	0.1
13-Aug-21	2:00	112.7	0.1
13-Aug-21	3:00	47.3	0.1
13-Aug-21	4:00	54.7	0.1
13-Aug-21	5:00	54.6	0.1
13-Aug-21	6:00	72.0	0.1
13-Aug-21	7:00	106.5	0.1
13-Aug-21	8:00	298.1	0.1
13-Aug-21	9:00	248.2	0.1
13-Aug-21	10:00	204.7	0.9
13-Aug-21	11:00	202.5	0.1
13-Aug-21	12:00	255.6	0.2
13-Aug-21	13:00	240.1	0.1
13-Aug-21	14:00	252.4	1.5
13-Aug-21	15:00	249.7	0.6
13-Aug-21	16:00	229.3	0.7
13-Aug-21	17:00	189.5	0.2
13-Aug-21	18:00	226.2	0.1
13-Aug-21	19:00	262.9	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
13-Aug-21	20:00	199.5	0.1
13-Aug-21	21:00	208.3	0.1
13-Aug-21	22:00	213.6	0.1
13-Aug-21	23:00	78.8	0.1
14-Aug-21	0:00	42.9	0.1
14-Aug-21	1:00	182.8	0.1
14-Aug-21	2:00	166.7	0.1
14-Aug-21	3:00	203.2	0.1
14-Aug-21	4:00	89.8	0.1
14-Aug-21	5:00	239.7	0.1
14-Aug-21	6:00	243.6	0.2
14-Aug-21	7:00	53.8	0.1
14-Aug-21	8:00	146.7	0.1
14-Aug-21	9:00	91.4	0.1
14-Aug-21	10:00	95.1	0.1
14-Aug-21	11:00	237.3	0.1
14-Aug-21	12:00	214.9	0.1
14-Aug-21	13:00	207.6	0.2
14-Aug-21	14:00	236.7	0.4
14-Aug-21	15:00	184.0	0.6
14-Aug-21	16:00	244.6	0.3
14-Aug-21	17:00	201.2	0.8
14-Aug-21	18:00	215.3	0.1
14-Aug-21	19:00	257.9	0.1
14-Aug-21	20:00	200.8	0.1
14-Aug-21	21:00	121.1	0.1
14-Aug-21	22:00	214.2	0.1
14-Aug-21	23:00	49.1	0.1
15-Aug-21	0:00	66.0	0.1
15-Aug-21	1:00	127.4	0.1
15-Aug-21	2:00	59.9	0.1
15-Aug-21	3:00	66.4	0.1
15-Aug-21	4:00	95.5	0.1
15-Aug-21	5:00	216.7	0.1
15-Aug-21	6:00	155.7	0.1
15-Aug-21	7:00	110.4	0.1
15-Aug-21	8:00	177.1	0.1
15-Aug-21	9:00	200.0	0.1
15-Aug-21	10:00	169.1	0.1
15-Aug-21	11:00	167.7	0.1
15-Aug-21	12:00	120.1	0.1
15-Aug-21	13:00	177.6	0.4
15-Aug-21	14:00	237.9	0.4
15-Aug-21	15:00	81.9	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
15-Aug-21	16:00	121.7	0.1
15-Aug-21	17:00	141.3	0.1
15-Aug-21	18:00	130.0	0.1
15-Aug-21	19:00	161.9	0.1
15-Aug-21	20:00	104.0	0.1
15-Aug-21	21:00	54.4	0.1
15-Aug-21	22:00	66.8	0.1
15-Aug-21	23:00	89.5	0.1
16-Aug-21	0:00	73.4	0.1
16-Aug-21	1:00	85.8	0.1
16-Aug-21	2:00	83.2	0.1
16-Aug-21	3:00	86.0	0.1
16-Aug-21	4:00	81.0	0.1
16-Aug-21	5:00	40.7	0.1
16-Aug-21	6:00	63.6	0.1
16-Aug-21	7:00	85.0	0.1
16-Aug-21	8:00	145.8	0.1
16-Aug-21	9:00	150.1	0.1
16-Aug-21	10:00	281.1	0.3
16-Aug-21	11:00	171.2	0.2
16-Aug-21	12:00	53.2	0.1
16-Aug-21	13:00	82.9	0.2
16-Aug-21	14:00	245.4	0.3
16-Aug-21	15:00	274.9	0.4
16-Aug-21	16:00	241.2	0.4
16-Aug-21	17:00	143.6	0.1
16-Aug-21	18:00	141.4	0.1
16-Aug-21	19:00	201.3	0.1
16-Aug-21	20:00	158.1	0.1
16-Aug-21	21:00	107.4	0.1
16-Aug-21	22:00	264.7	0.1
16-Aug-21	23:00	172.5	0.1
17-Aug-21	0:00	82.3	0.1
17-Aug-21	1:00	70.7	0.1
17-Aug-21	2:00	90.0	0.1
17-Aug-21	3:00	70.5	0.1
17-Aug-21	4:00	63.6	0.1
17-Aug-21	5:00	124.9	0.1
17-Aug-21	6:00	81.6	0.1
17-Aug-21	7:00	131.5	0.1
17-Aug-21	8:00	235.5	0.1
17-Aug-21	9:00	280.9	0.1
17-Aug-21	10:00	255.2	1.5
17-Aug-21	11:00	249.7	1.5

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
17-Aug-21	12:00	288.3	0.6
17-Aug-21	13:00	235.0	0.4
17-Aug-21	14:00	302.6	1.1
17-Aug-21	15:00	273.2	1.0
17-Aug-21	16:00	284.7	1.0
17-Aug-21	17:00	255.5	0.5
17-Aug-21	18:00	295.7	0.1
17-Aug-21	19:00	223.4	0.1
17-Aug-21	20:00	222.6	0.1
17-Aug-21	21:00	242.6	0.1
17-Aug-21	22:00	264.0	0.1
17-Aug-21	23:00	228.9	0.1
18-Aug-21	0:00	222.3	0.1
18-Aug-21	1:00	242.5	0.1
18-Aug-21	2:00	228.6	0.1
18-Aug-21	3:00	228.6	0.1
18-Aug-21	4:00	139.9	0.1
18-Aug-21	5:00	195.4	0.1
18-Aug-21	6:00	58.0	0.1
18-Aug-21	7:00	107.2	0.1
18-Aug-21	8:00	291.7	0.2
18-Aug-21	9:00	248.9	0.1
18-Aug-21	10:00	293.1	0.4
18-Aug-21	11:00	230.0	0.1
18-Aug-21	12:00	281.8	0.4
18-Aug-21	13:00	202.5	1.3
18-Aug-21	14:00	244.7	0.9
18-Aug-21	15:00	44.7	0.1
18-Aug-21	16:00	76.0	0.1
18-Aug-21	17:00	77.5	0.1
18-Aug-21	18:00	51.1	0.1
18-Aug-21	19:00	60.9	0.1
18-Aug-21	20:00	88.6	0.1
18-Aug-21	21:00	63.8	0.1
18-Aug-21	22:00	171.8	0.1
18-Aug-21	23:00	60.5	0.1
19-Aug-21	0:00	79.1	0.1
19-Aug-21	1:00	66.7	0.1
19-Aug-21	2:00	137.8	0.1
19-Aug-21	3:00	62.9	0.1
19-Aug-21	4:00	81.7	0.1
19-Aug-21	5:00	72.8	0.1
19-Aug-21	6:00	105.4	0.1
19-Aug-21	7:00	54.0	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
19-Aug-21	8:00	52.7	0.1
19-Aug-21	9:00	161.8	0.1
19-Aug-21	10:00	191.0	0.1
19-Aug-21	11:00	159.3	0.1
19-Aug-21	12:00	107.5	0.1
19-Aug-21	13:00	44.8	0.1
19-Aug-21	14:00	58.6	0.2
19-Aug-21	15:00	242.4	0.1
19-Aug-21	16:00	198.2	0.1
19-Aug-21	17:00	268.1	0.1
19-Aug-21	18:00	211.2	0.1
19-Aug-21	19:00	226.4	0.1
19-Aug-21	20:00	239.2	0.1
19-Aug-21	21:00	72.8	0.1
19-Aug-21	22:00	73.7	0.1
19-Aug-21	23:00	71.9	0.1
20-Aug-21	0:00	166.5	0.1
20-Aug-21	1:00	286.0	0.1
20-Aug-21	2:00	246.0	0.1
20-Aug-21	3:00	259.3	0.1
20-Aug-21	4:00	277.1	0.1
20-Aug-21	5:00	264.9	0.1
20-Aug-21	6:00	7.9	0.1
20-Aug-21	7:00	250.9	0.1
20-Aug-21	8:00	240.4	0.2
20-Aug-21	9:00	289.8	0.1
20-Aug-21	10:00	251.7	1.2
20-Aug-21	11:00	232.2	1.1
20-Aug-21	12:00	233.7	1.9
20-Aug-21	13:00	297.0	1.2
20-Aug-21	14:00	307.9	0.4
20-Aug-21	15:00	242.7	0.0
20-Aug-21	16:00	269.6	0.2
20-Aug-21	17:00	180.1	0.8
20-Aug-21	18:00	78.3	0.1
20-Aug-21	19:00	207.8	0.1
20-Aug-21	20:00	223.2	0.1
20-Aug-21	21:00	225.9	0.1
20-Aug-21	22:00	127.3	0.1
20-Aug-21	23:00	175.3	0.1
21-Aug-21	0:00	125.4	0.1
21-Aug-21	1:00	111.7	0.1
21-Aug-21	2:00	105.1	0.1
21-Aug-21	3:00	70.5	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
21-Aug-21	4:00	68.6	0.1
21-Aug-21	5:00	69.4	0.1
21-Aug-21	6:00	69.1	0.1
21-Aug-21	7:00	263.2	0.4
21-Aug-21	8:00	299.9	0.4
21-Aug-21	9:00	251.4	1.2
21-Aug-21	10:00	255.4	0.6
21-Aug-21	11:00	270.6	0.9
21-Aug-21	12:00	293.8	0.5
21-Aug-21	13:00	287.9	0.9
21-Aug-21	14:00	229.4	0.9
21-Aug-21	15:00	228.1	0.7
21-Aug-21	16:00	242.2	1.1
21-Aug-21	17:00	207.2	0.5
21-Aug-21	18:00	211.7	0.4
21-Aug-21	19:00	232.6	0.1
21-Aug-21	20:00	204.0	0.1
21-Aug-21	21:00	207.8	0.1
21-Aug-21	22:00	250.7	0.1
21-Aug-21	23:00	217.9	0.1
22-Aug-21	0:00	236.4	0.1
22-Aug-21	1:00	235.7	0.1
22-Aug-21	2:00	160.0	0.1
22-Aug-21	3:00	261.0	0.1
22-Aug-21	4:00	275.3	0.1
22-Aug-21	5:00	167.4	0.1
22-Aug-21	6:00	89.9	0.1
22-Aug-21	7:00	240.9	0.1
22-Aug-21	8:00	246.8	0.8
22-Aug-21	9:00	300.2	0.6
22-Aug-21	10:00	266.5	0.8
22-Aug-21	11:00	274.5	2.2
22-Aug-21	12:00	258.4	1.7
22-Aug-21	13:00	223.9	1.0
22-Aug-21	14:00	270.3	1.4
22-Aug-21	15:00	173.2	0.3
22-Aug-21	16:00	208.2	0.7
22-Aug-21	17:00	231.9	1.7
22-Aug-21	18:00	207.7	0.4
22-Aug-21	19:00	229.5	0.6
22-Aug-21	20:00	219.7	0.1
22-Aug-21	21:00	253.9	0.2
22-Aug-21	22:00	230.1	0.1
22-Aug-21	23:00	221.8	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
23-Aug-21	0:00	218.1	0.1
23-Aug-21	1:00	218.6	0.1
23-Aug-21	2:00	233.5	0.1
23-Aug-21	3:00	205.9	0.1
23-Aug-21	4:00	259.2	0.1
23-Aug-21	5:00	196.0	0.1
23-Aug-21	6:00	29.4	0.1
23-Aug-21	7:00	265.4	0.1
23-Aug-21	8:00	274.2	0.1
23-Aug-21	9:00	258.5	0.7
23-Aug-21	10:00	251.3	0.7
23-Aug-21	11:00	257.7	0.3
23-Aug-21	12:00	203.6	0.4
23-Aug-21	13:00	226.4	2.3
23-Aug-21	14:00	208.2	1.3
23-Aug-21	15:00	196.0	0.7
23-Aug-21	16:00	246.2	0.3
23-Aug-21	17:00	223.9	1.9
23-Aug-21	18:00	210.1	0.9
23-Aug-21	19:00	211.8	0.1
23-Aug-21	20:00	130.5	0.1
23-Aug-21	21:00	164.1	0.1
23-Aug-21	22:00	302.7	0.1
23-Aug-21	23:00	323.2	0.1
24-Aug-21	0:00	125.5	0.1
24-Aug-21	1:00	260.1	0.1
24-Aug-21	2:00	129.9	0.1
24-Aug-21	3:00	120.3	0.1
24-Aug-21	4:00	72.2	0.1
24-Aug-21	5:00	48.9	0.1
24-Aug-21	6:00	200.6	0.1
24-Aug-21	7:00	107.3	0.1
24-Aug-21	8:00	198.7	0.1
24-Aug-21	9:00	238.5	1.3
24-Aug-21	10:00	233.8	0.2
24-Aug-21	11:00	212.6	0.5
24-Aug-21	12:00	300.3	1.1
24-Aug-21	13:00	186.2	0.1
24-Aug-21	14:00	178.4	0.3
24-Aug-21	15:00	255.1	0.7
24-Aug-21	16:00	219.1	0.4
24-Aug-21	17:00	214.1	0.9
24-Aug-21	18:00	210.4	0.1
24-Aug-21	19:00	201.5	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
24-Aug-21	20:00	83.5	0.1
24-Aug-21	21:00	84.0	0.1
24-Aug-21	22:00	72.0	0.1
24-Aug-21	23:00	145.5	0.1
25-Aug-21	0:00	41.8	0.1
25-Aug-21	1:00	248.6	0.1
25-Aug-21	2:00	234.8	0.1
25-Aug-21	3:00	248.1	0.1
25-Aug-21	4:00	153.7	0.1
25-Aug-21	5:00	47.1	0.1
25-Aug-21	6:00	57.0	0.1
25-Aug-21	7:00	69.8	0.1
25-Aug-21	8:00	37.4	0.1
25-Aug-21	9:00	157.6	0.1
25-Aug-21	10:00	101.1	0.1
25-Aug-21	11:00	72.4	0.1
25-Aug-21	12:00	146.1	0.1
25-Aug-21	13:00	133.7	0.7
25-Aug-21	14:00	121.6	0.6
25-Aug-21	15:00	138.6	0.3
25-Aug-21	16:00	61.8	0.1
25-Aug-21	17:00	73.0	0.1
25-Aug-21	18:00	81.4	0.1
25-Aug-21	19:00	68.9	0.1
25-Aug-21	20:00	79.5	0.1
25-Aug-21	21:00	90.1	0.1
25-Aug-21	22:00	84.7	0.1
25-Aug-21	23:00	67.3	0.1
26-Aug-21	0:00	76.9	0.1
26-Aug-21	1:00	57.4	0.1
26-Aug-21	2:00	48.8	0.1
26-Aug-21	3:00	24.1	0.1
26-Aug-21	4:00	60.6	0.1
26-Aug-21	5:00	77.5	0.1
26-Aug-21	6:00	207.2	0.1
26-Aug-21	7:00	120.6	0.1
26-Aug-21	8:00	100.4	0.1
26-Aug-21	9:00	183.1	0.2
26-Aug-21	10:00	135.8	0.1
26-Aug-21	11:00	133.5	0.1
26-Aug-21	12:00	162.9	0.3
26-Aug-21	13:00	109.8	0.2
26-Aug-21	14:00	198.7	0.2
26-Aug-21	15:00	148.9	0.6

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
26-Aug-21	16:00	121.6	0.2
26-Aug-21	17:00	132.5	0.1
26-Aug-21	18:00	169.0	0.1
26-Aug-21	19:00	132.7	0.1
26-Aug-21	20:00	77.9	0.1
26-Aug-21	21:00	77.4	0.1
26-Aug-21	22:00	77.0	0.1
26-Aug-21	23:00	78.0	0.1
27-Aug-21	0:00	74.0	0.1
27-Aug-21	1:00	67.6	0.1
27-Aug-21	2:00	59.4	0.1
27-Aug-21	3:00	70.7	0.1
27-Aug-21	4:00	65.9	0.1
27-Aug-21	5:00	77.6	0.1
27-Aug-21	6:00	53.3	0.1
27-Aug-21	7:00	98.0	0.1
27-Aug-21	8:00	137.7	0.5
27-Aug-21	9:00	165.6	0.1
27-Aug-21	10:00	81.3	0.3
27-Aug-21	11:00	145.8	0.1
27-Aug-21	12:00	70.4	0.1
27-Aug-21	13:00	186.5	0.1
27-Aug-21	14:00	73.7	0.1
27-Aug-21	15:00	97.0	0.1
27-Aug-21	16:00	97.5	0.2
27-Aug-21	17:00	110.8	0.1
27-Aug-21	18:00	116.6	0.1
27-Aug-21	19:00	24.5	0.1
27-Aug-21	20:00	142.1	0.1
27-Aug-21	21:00	156.6	0.1
27-Aug-21	22:00	229.5	0.1
27-Aug-21	23:00	84.2	0.1
28-Aug-21	0:00	249.6	0.1
28-Aug-21	1:00	244.0	0.1
28-Aug-21	2:00	98.4	0.1
28-Aug-21	3:00	84.0	0.1
28-Aug-21	4:00	50.6	0.1
28-Aug-21	5:00	84.6	0.1
28-Aug-21	6:00	158.7	0.1
28-Aug-21	7:00	226.9	0.2
28-Aug-21	8:00	66.5	0.1
28-Aug-21	9:00	62.7	0.1
28-Aug-21	10:00	90.1	0.2
28-Aug-21	11:00	83.5	0.6

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
28-Aug-21	12:00	99.0	0.2
28-Aug-21	13:00	72.5	0.1
28-Aug-21	14:00	60.4	0.2
28-Aug-21	15:00	70.0	0.2
28-Aug-21	16:00	109.3	0.1
28-Aug-21	17:00	92.5	0.4
28-Aug-21	18:00	78.0	0.1
28-Aug-21	19:00	76.3	0.1
28-Aug-21	20:00	86.1	0.1
28-Aug-21	21:00	65.9	0.1
28-Aug-21	22:00	55.5	0.1
28-Aug-21	23:00	67.5	0.1
29-Aug-21	0:00	70.4	0.1
29-Aug-21	1:00	133.0	0.1
29-Aug-21	2:00	65.3	0.1
29-Aug-21	3:00	64.2	0.1
29-Aug-21	4:00	60.5	0.1
29-Aug-21	5:00	91.9	0.1
29-Aug-21	6:00	227.6	0.1
29-Aug-21	7:00	85.3	0.1
29-Aug-21	8:00	171.5	0.1
29-Aug-21	9:00	267.0	0.5
29-Aug-21	10:00	111.3	0.2
29-Aug-21	11:00	161.4	0.2
29-Aug-21	12:00	144.1	0.2
29-Aug-21	13:00	149.1	0.7
29-Aug-21	14:00	152.3	1.0
29-Aug-21	15:00	83.0	0.3
29-Aug-21	16:00	98.6	0.4
29-Aug-21	17:00	80.6	0.4
29-Aug-21	18:00	81.5	0.1
29-Aug-21	19:00	115.4	0.1
29-Aug-21	20:00	63.2	0.1
29-Aug-21	21:00	67.1	0.1
29-Aug-21	22:00	80.4	0.1
29-Aug-21	23:00	54.7	0.1
30-Aug-21	0:00	47.2	0.1
30-Aug-21	1:00	14.5	0.1
30-Aug-21	2:00	12.4	0.1
30-Aug-21	3:00	63.2	0.1
30-Aug-21	4:00	272.5	0.1
30-Aug-21	5:00	75.8	0.1
30-Aug-21	6:00	70.5	0.1
30-Aug-21	7:00	40.4	0.1

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Direction (°)	Wind Speed (m/s)
30-Aug-21	8:00	105.1	0.6
30-Aug-21	9:00	64.3	0.7
30-Aug-21	10:00	117.2	0.6
30-Aug-21	11:00	69.4	0.1
30-Aug-21	12:00	117.2	0.1
30-Aug-21	13:00	106.2	0.1
30-Aug-21	14:00	104.9	0.1
30-Aug-21	15:00	47.2	0.1
30-Aug-21	16:00	47.9	0.1
30-Aug-21	17:00	95.3	0.1
30-Aug-21	18:00	106.2	0.1
30-Aug-21	19:00	103.9	0.1
30-Aug-21	20:00	200.3	0.1
30-Aug-21	21:00	141.5	0.1
30-Aug-21	22:00	18.2	0.1
30-Aug-21	23:00	34.2	0.7
31-Aug-21	0:00	64.9	0.8
31-Aug-21	1:00	95.3	0.5
31-Aug-21	2:00	84.1	0.1
31-Aug-21	3:00	145.2	0.1
31-Aug-21	4:00	32.0	0.1
31-Aug-21	5:00	65.4	0.1
31-Aug-21	6:00	85.2	0.1
31-Aug-21	7:00	74.1	0.1
31-Aug-21	8:00	125.1	0.1
31-Aug-21	9:00	24.1	0.1
31-Aug-21	10:00	58.2	0.1
31-Aug-21	11:00	94.6	0.1
31-Aug-21	12:00	84.1	0.4
31-Aug-21	13:00	156.2	0.2
31-Aug-21	14:00	74.6	0.1
31-Aug-21	15:00	89.2	0.1
31-Aug-21	16:00	61.2	0.1
31-Aug-21	17:00	74.0	0.1
31-Aug-21	18:00	51.2	0.1
31-Aug-21	19:00	45.1	0.1
31-Aug-21	20:00	95.8	0.1
31-Aug-21	21:00	187.2	0.1
31-Aug-21	22:00	114.1	0.1
31-Aug-21	23:00	12.4	0.1

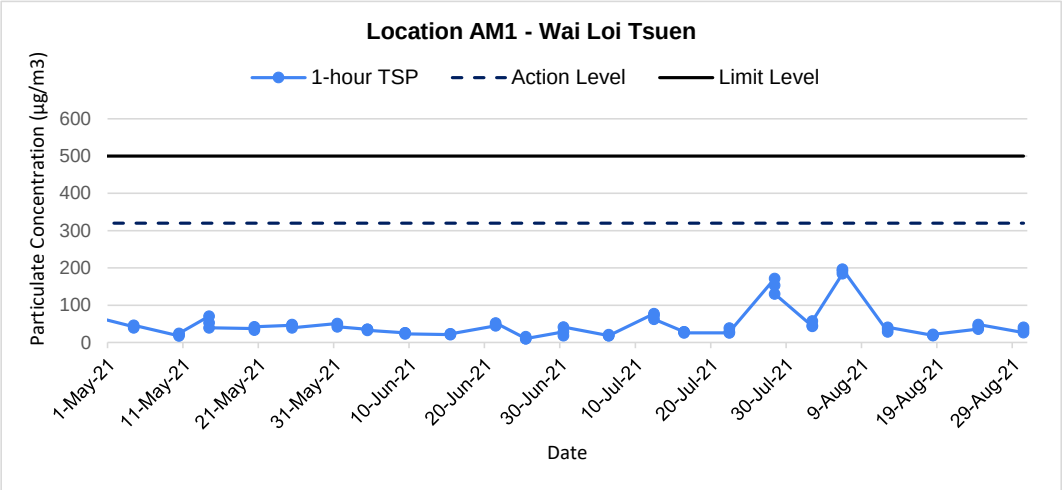
APPENDIX E
1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

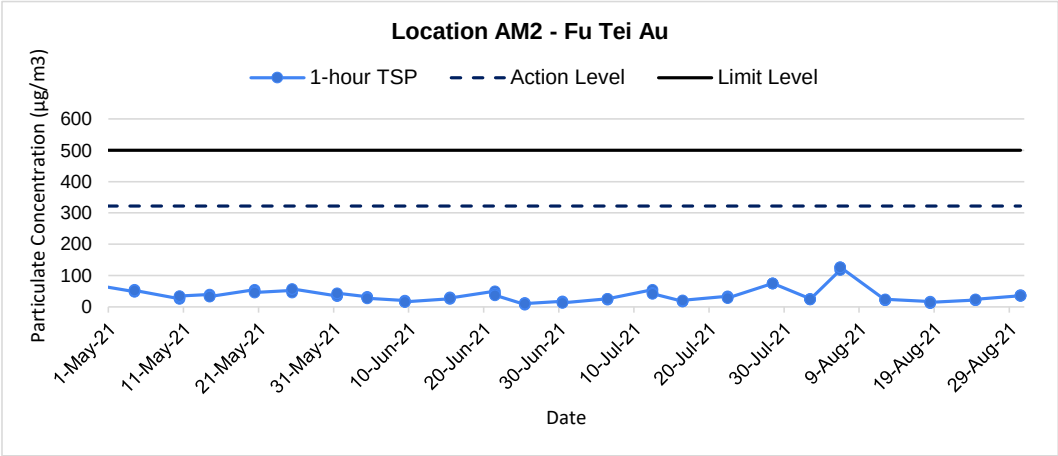
Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Wai Loi Tsuen			
Date	Time	Weather	Particulate Concentration (µg/m^3)
2-Aug-21	9:00	Cloudy	43.2
2-Aug-21	10:00	Cloudy	45.6
2-Aug-21	11:00	Cloudy	57.6
6-Aug-21	9:15	Sunny	184.8
6-Aug-21	10:15	Sunny	192.0
6-Aug-21	11:15	Sunny	196.8
12-Aug-21	9:20	Cloudy	28.8
12-Aug-21	10:20	Cloudy	36.0
12-Aug-21	11:20	Cloudy	40.8
18-Aug-21	9:25	Cloudy	19.2
18-Aug-21	10:25	Cloudy	19.2
18-Aug-21	11:25	Cloudy	21.6
24-Aug-21	9:15	Cloudy	36.0
24-Aug-21	10:15	Cloudy	43.2
24-Aug-21	11:15	Cloudy	48.0
30-Aug-21	9:20	Sunny	26.4
30-Aug-21	10:20	Sunny	33.6
30-Aug-21	11:20	Sunny	40.8
		Average	61.9
		Maximum	196.8
		Minimum	19.2

Location AM2 - Fu Tei Au			
Date	Time	Weather	Particulate Concentration (µg/m^3)
2-Aug-21	13:00	Cloudy	26.4
2-Aug-21	14:00	Cloudy	24.0
2-Aug-21	15:00	Cloudy	24.0
6-Aug-21	13:05	Sunny	117.6
6-Aug-21	14:05	Sunny	127.2
6-Aug-21	15:05	Sunny	127.2
12-Aug-21	13:30	Cloudy	21.6
12-Aug-21	14:30	Cloudy	21.6
12-Aug-21	15:30	Cloudy	24.0
18-Aug-21	13:45	Cloudy	16.8
18-Aug-21	14:45	Cloudy	12.0
18-Aug-21	15:45	Cloudy	14.4
24-Aug-21	13:10	Cloudy	21.6
24-Aug-21	14:10	Cloudy	21.6
24-Aug-21	15:10	Cloudy	24.0
30-Aug-21	13:40	Sunny	36.0
30-Aug-21	14:40	Sunny	38.4
30-Aug-21	15:40	Sunny	36.0
		Average	40.8
		Maximum	127.2
		Minimum	12.0

1-hr TSP Concentration Levels





Title: Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1	Date: Aug 2021	Project No.: MA19019	CINOTECH
Graphical Presentation of 1-hour TSP Monitoring Results		Appendix: E	

APPENDIX F
24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Monitoring Results

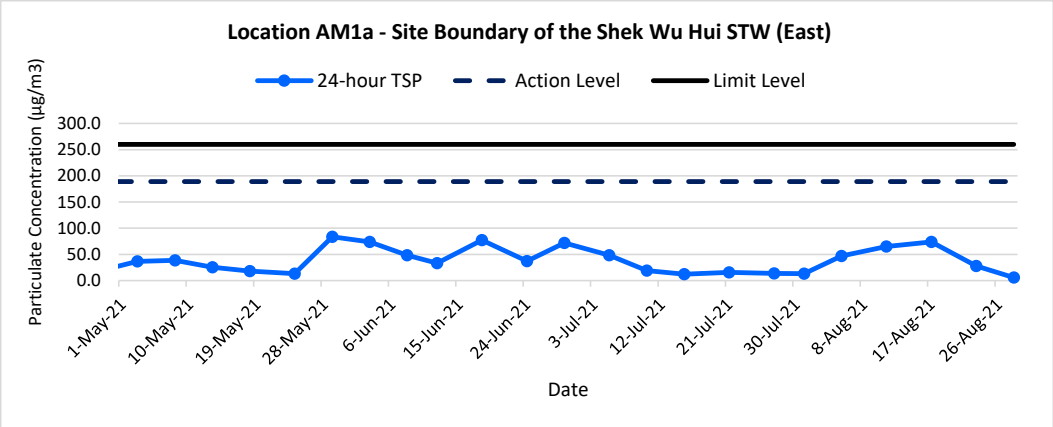
Location AM1a - Site Boundary of the Shek Wu Hui STW (East)

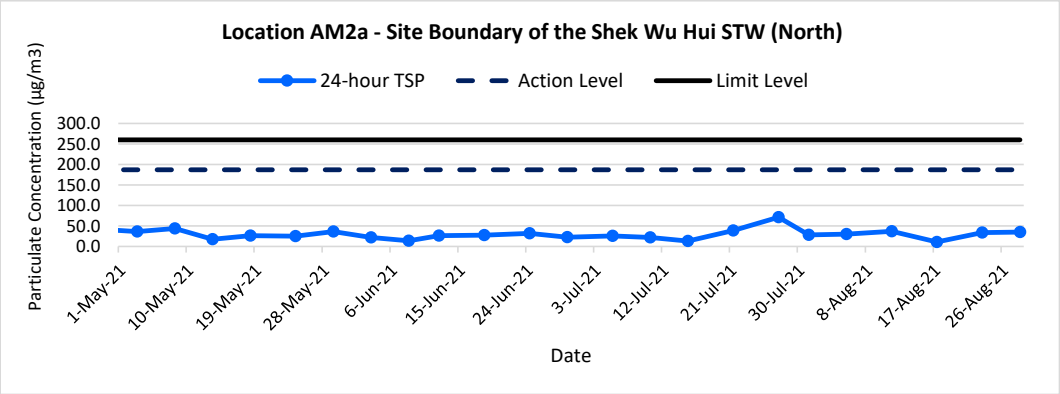
Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. (µg/m^3)
				Initial	Final		Initial	Final		Initial	Final			
5-Aug-21	Sunny	301.0	748.7	3.6861	3.7674	0.0813	10652.8	10676.8	24.0	1.20	1.20	1.20	1733.5	46.9
11-Aug-21	Cloudy	302.3	757.4	3.6905	3.8051	0.1147	10676.8	10700.8	24.0	1.22	1.22	1.22	1756.8	65.3
17-Aug-21	Cloudy	302.5	758.0	3.7171	3.8471	0.1300	10700.7	10724.7	24.0	1.22	1.22	1.22	1756.7	74.0
23-Aug-21	Cloudy	302.9	756.6	3.6752	3.7245	0.0493	10724.8	10748.8	24.0	1.22	1.22	1.22	1754.2	28.1
28-Aug-21	Sunny	300.4	759.5	3.7125	3.7228	0.0103	10748.8	10772.8	24.0	1.23	1.22	1.22	1764.0	5.8
													Min	5.8
													Max	74.0
													Average	44.0

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

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. (µg/m^3)
				Initial	Final		Initial	Final		Initial	Final			
5-Aug-21	Sunny	301.0	748.7	3.7153	3.7633	0.0480	20871.3	20893.3	22.0	1.20	1.20	1.20	1589.2	30.2
11-Aug-21	Cloudy	302.3	757.4	3.7092	3.7736	0.0643	20893.3	20917.3	24.0	1.22	1.22	1.22	1754.7	36.7
17-Aug-21	Cloudy	302.5	758.0	3.6835	3.7027	0.0192	20917.3	20941.3	24.0	1.22	1.22	1.22	1754.6	10.9
23-Aug-21	Cloudy	302.9	756.6	3.6798	3.7392	0.0594	20941.3	20965.3	24.0	1.22	1.22	1.22	1752.3	33.9
28-Aug-21	Sunny	300.4	759.5	3.6815	3.7435	0.0620	20965.3	20989.3	24.0	1.22	1.22	1.22	1761.3	35.2
													Min	10.9
													Max	36.7
													Average	29.4

24-hr TSP Concentration Levels





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

APPENDIX G
COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING

Equipment no.: N-12-01

Calibration Certificate

0024993

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : BSWA 308 SLM Serial No. /Ref. No. : 570183 / 550233 Object 2 : Serial No. /Ref. No. : Manufacturer : BSWAtech
Date of calibration: 07/10/2020 Date of the recommended re-calibration: 07/10/2021	Certificate No.: 0024993 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.4dB	-0.6dB	+/- 1.5dB	1
114.0dB	113.2dB	-0.8dB	+/- 1.5dB	1

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
5.The calibrations certificate may not be reproduced.

Measured value(s) within **the allowable deviation.**

Performed by

Calibration Technician Mr. K.L. Ng

Approved by

Mr. K.S. Ng

Quality Manager

Equipment no.: N-12-02

Calibration Certificate

0024995

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : BSWA 308 SLM Serial No. /Ref. No. : 570187 / 550841 Object 2 : Serial No. /Ref. No. : Manufacturer : BSWAtech
Date of calibration: 07/10/2020 Date of the recommended re-calibration: 07/10/2021	Certificate No.: 0024995 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.1dB	-0.9dB	+/- 1.5dB	1
114.0dB	113.1dB	-0.9dB	+/- 1.5dB	1

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
5.The calibrations certificate may not be reproduced.

Measured value(s) within **the allowable deviation.**

Performed by

Calibration Technician Mr. K.L. Ng

Approved by

Mr. K.S. Ng

Quality Manager

Equipment no.: N-12-03

Calibration Certificate

0024996

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : BSWA 308 SLM Serial No. /Ref. No. : 570188 / 550850 Object 2 : Serial No. /Ref. No. : Manufacturer : BSWAtech
Date of calibration: 07/10/2020 Date of the recommended re-calibration: 07/10/2021	Certificate No.: 0024996 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	92.9dB	-1.1dB	+/- 1.5dB	1
114.0dB	112.8dB	-1.2dB	+/- 1.5dB	1

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
5.The calibrations certificate may not be reproduced.

Measured value(s) within **the allowable deviation.**

Performed by

Calibration Technician Mr. K.L. Ng

Approved by

Mr. K.S. Ng

Quality Manager

Equipment no.:N-13-01

Calibration Certificate

0025247

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : ST-120 sound calibrator Serial No. /Ref. No. : 181001608 Object 2 : Serial No. /Ref. No. : Manufacturer : Soundtek
Date of calibration: 05/11/2020 Date of the recommended re-calibration: 05/11/2021	Certificate No.: 0025247 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	1

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
5.The calibrations certificate may not be reproduced.

Measured value(s) within **the allowable deviation.**

Performed by

Calibration Technician Mr. K.L. Ng

Approved by

Quality Manager

Equipment no.:N-13-02

Calibration Certificate

0025249

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : ST-120 sound calibrator Serial No. /Ref. No. : 181001636 Object 2 : Serial No. /Ref. No. : Manufacturer : Soundtek
Date of calibration: 05/11/2020 Date of the recommended re-calibration: 05/11/2021	Certificate No.: 0025249 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	1

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
5.The calibrations certificate may not be reproduced.

Measured value(s) within **the allowable deviation.**

Performed by

Calibration Technician Mr. K.L. Ng

Approved by

Quality Manager

APPENDIX H
NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix H - Noise Monitoring Results

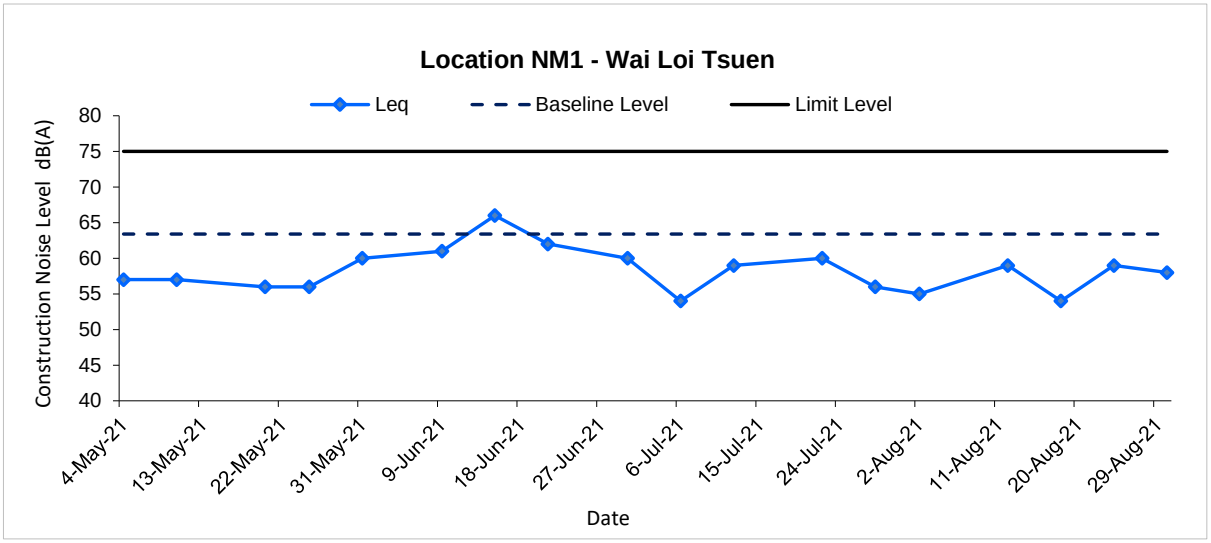
(0700-1900 hrs on Normal Weekdays)

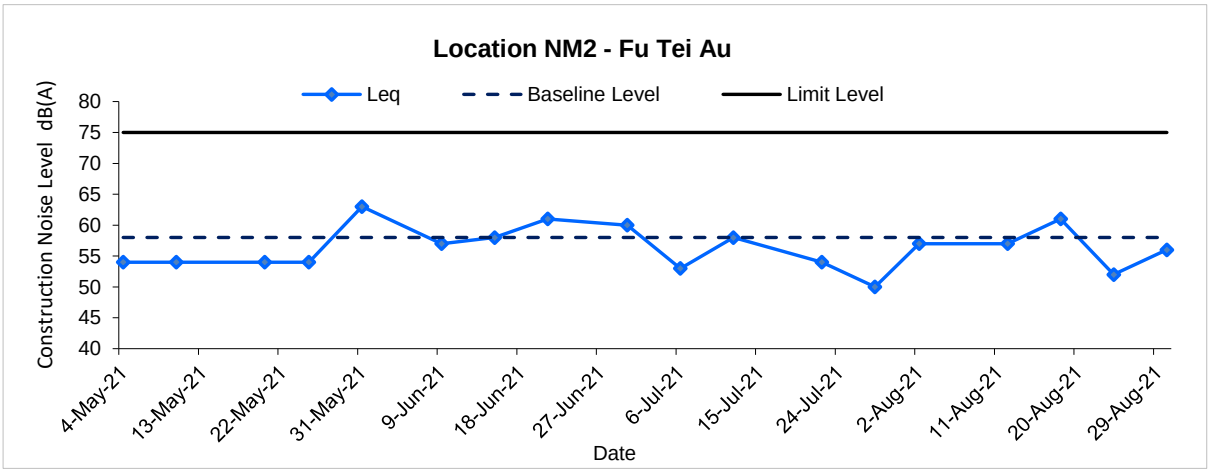
Location NM1 - Wai Loi Tsuen							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
2-Aug-21	9:15	Sunny	54.7	56.1	49.5	63.4	54.7 Measured ≦ Baseline
12-Aug-21	9:00	Cloudy	58.5	58.9	51.4	63.4	58.5 Measured ≦ Baseline
18-Aug-21	9:30	Cloudy	53.7	55.1	48.5	63.4	53.7 Measured ≦ Baseline
24-Aug-21	9:20	Cloudy	58.5	62.7	51.3	63.4	58.5 Measured ≦ Baseline
30-Aug-21	9:30	Sunny	58.2	60.1	52.3	63.4	58.2 Measured ≦ Baseline

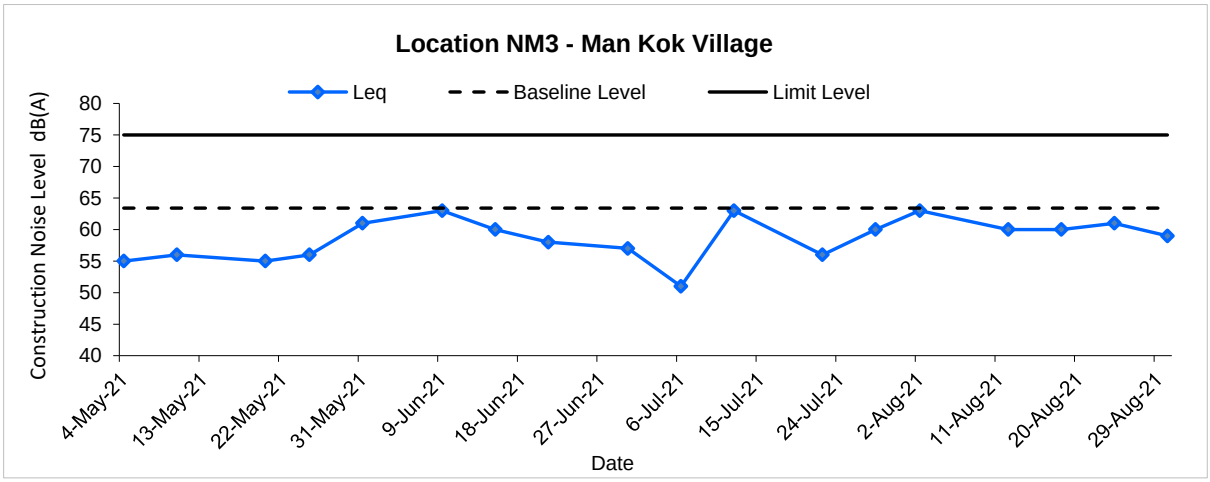
Location NM2 - Fu Tei Au							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
2-Aug-21	13:30	Sunny	56.8	59.4	51.5	58.0	56.8 Measured ≦ Baseline
12-Aug-21	13:00	Cloudy	60.6	62.0	60.3	58.0	57.1
18-Aug-21	13:15	Cloudy	62.8	64.2	60.3	58.0	61.1
24-Aug-21	13:45	Cloudy	59.0	61.8	55.1	58.0	52.1
30-Aug-21	14:00	Sunny	60.2	62.9	53.4	58.0	56.2

Location NM3 - Man Kok Village							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
2-Aug-21	10:45	Sunny	63.0	63.8	61.3	63.4	63 Measured ≦ Baseline
12-Aug-21	10:00	Cloudy	59.6	60.7	57.3	63.4	59.6 Measured ≦ Baseline
18-Aug-21	10:05	Cloudy	65.1	65.9	63.4	63.4	60.2
24-Aug-21	10:15	Cloudy	60.5	63.1	57.8	63.4	60.5 Measured ≦ Baseline
30-Aug-21	10:30	Sunny	59.4	61.5	55.4	63.4	59.4 Measured ≦ Baseline

Noise Levels







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

CINOTECH

APPENDIX I
ECOLOGICAL MONITORING RESULTS AND ANALYSIS

MA19019 - Ecological Monitoring Result and Analysis

Table I: Recorded Bird Species and their Abundance in the Reporting Month					
Scientific Name	**Common Name**	**Chinese Name**	**Waterbird**	**Point Count Abundance**	**Transect Abundance**
Acridotheres cristatellus	Crested Myna	八哥		79	+++++
Actitis hypoleucos	Common Sandpiper	磯鷸	*	0	+
Amaurornis phoenicurus	White-breasted Waterhen	白胸苦惡鳥	*	0	+
Anthus hodgsoni	Olive Backed Pipit	樹鷚		15	++
Apus nipalensis	House Swift	小白腰雨燕		0	+
Ardea alba	Great Egret	大白鷺	*	12	++
Ardeola bacchus	Chinese Pond Heron	池鷺	*	52	++++
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	*	12	+
Buteo japonicus	Eastern Buzzard	普通鵟	*	0	+
Centropus sinensis	Greater Coucal	褐翅鴉鵑		0	+
Ceryle rudis	Pied Kingfisher	斑魚狗	*	0	+
Columba livia	Domestic Pigeon	原鴿		1	
Copsychus saularis	Magpie Robin	鵲鴝		3	+
Corvus macrorhynchus	Jungle Crow	大嘴烏鴉		2	+
Egretta garzetta	Little Egret	小白鷺	*	58	+++++
Garrulax perspicillatus	Masked Laughing Thrush	黑臉噪鶥		20	++++
Halcyon smyrnensis	White-throated Kingfisher	白胸翡翠	*	0	+
Himantopus himantopus	Black-winged Stilt	黑翅長腳鷸	*	3	++
Hirundo rustica	Barn Swallow	家燕		0	+
Motacilla alba	White Wagtail	白鶺鴒		26	++
Orthotomus sutorius	Common Tailorbird	長尾縫葉鶯		6	+
Passer montanus	Eurasian Tree Sparrow	樹麻雀		31	+++
Phylloscopus fuscatus	Dusky Warbler	褐柳鶯		0	+
Phylloscopus proregulus	Pallas's Leaf Warbler	黃腰柳鶯		1	+
Pica pica	Magpie	喜鵲		0	+
Prinia flaviventris	Yellow-bellied Prinia	黃腹鷦鶯		1	+
Pycnonotus jocosus	Crested bulbul	紅耳鵯		30	+++
Streptopelia chinensis	Spotted Dove	珠頸斑鳩		31	++
Sturnus nigricollis	Black-necked Starling	黑領椋鳥		10	++
Urocissa erythrorhyncha	Red-billed Blue Magpie	紅咀藍鵲		0	+
Zosterops japonicus	Japanese White-eye	暗綠繡眼鳥		8	+
			Total Point Count Abundance	401	
			Total Waterbirds	137	

*For waterbird
For transect abundance, +: <10, ++: 11-20, +++: 21-30, ++++: 31-40, +++++: >40

Remarks: (1) According to S4.7 of the approved Baseline Monitoring Report (Ecology), "waterbirds" was defined as "waterbirds and wetland-dependen species", which was referenced to Monthly Waterbird Monitoring Biannual Reports prepared by the Hong Kong Bird Watching Society (Anon, 2018). Also, S.13.11.3.2 of NENT NDA EIA Study requires "Monitoring of Measures to Mitigate for Impacts of the Project on Wetland-dependent Fauna usin the Ng Tung, Sheung Yue and Shek Sheung Rivers". Therefore, "wetland-dependent birds" should be considered as "waterbirds". As raptors and Collared Crow are "wetland-dependent species", they should be taken into consideration in data analysis and impact assessment on waterbirds.

MA19019 - Waterbird Ecological Monitoring Result

Monitoring Month Aug
Season Summer

Table II : Total Bird Abundance from Point Count						
Survey Information				Total Bird Abundance from Point Count		
No.	Date	Time	Tide Level	Individuals Recorded	Total	Species Recorded
#1	5 Aug 2021	12:00	High	52	**109**	12
		9:00	Low	57		11
#2	13 Aug 2021	16:00	High	36	**60**	11
		14:00	Low	24		6
#3	20 Aug 2021	16:00	High	47	**110**	10
		10:00	Low	63		12
#4	23 Aug 2021	15:00	High	52	**122**	9
		7:00	Low	70		9
				Overall Total	**401**	

Table III: Total Waterbird Abundance from Point Count					
Survey Information				Numbers of Waterbirds	
No.	Date	Time	Tide Level	Individuals Recorded	Total
#1	5 Aug 2021	12:00	High	16	**34**
		9:00	Low	18	
#2	13 Aug 2021	16:00	High	19	**39**
		14:00	Low	20	
#3	20 Aug 2021	16:00	High	14	**34**
		10:00	Low	20	
#4	23 Aug 2021	15:00	High	10	**30**
		7:00	Low	20	
				Overall Total	**137**
				Average	**34**

Table IV: T-Test Analysis for All Waterbirds

Baseline Data
Monthly Average Abundance (Aug) 37.00
Seasonal Average Abundance (Summer) 45.34

T-test
The following hypothesis was made and a one-tail t-test will be used to test the data collected from the monitoring:

H_0 The data collected in the reporting month falls within the normal distrubution when compared to the baseline monitoring data.

H_1 The data collected does not falls within the normal distrubution when compared to the baseline monitoring data.

If t-test value is smaller than the critical value, then rejects H_0.
For the data in the reporting month, the critical values are:
Crit. Value = -2.353 (95% Confidence Level)
Crit. Value = -4.541 (99% Confidence Level)

			Confidence Level	
T-values of Data in Reporting Month			95%	99%
Abundance	Monthly	-1.492	✓	✓
	Season	***-6.019***	✕	✕
		Overall:	✓	✓

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

MA19019 - Waterbird Ecological Monitoring Result

Monitoring Month Aug
Season Summer

Table V: Abundance of Representative Waterbirds from Point Count

Representative Species			Recorded Abundance							Baseline Data	
Species Name	**Common Name**	**Chinese Name**	**5 Aug 2021**	**13 Aug 2021**	**20 Aug 2021**	**23 Aug 2021**		**Total**	**Average**	**Avg (Aug)**	**Avg (Summer)**
Egretta garzetta	Little Egret	小白鷺	16	18	11	13		58	15	18	21
Ardea cinerea	Grey Heron	蒼鷺	0	0	0	0		0	0	0	1
Ardeola bacchus	Chinese Pond Heron	池鷺	13	14	11	14		52	13	14	16
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	0	0	0	0		0	0	0	0
Ardea alba	Great Egret	大白鷺	1	2	6	3		12	3	2	3
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	4	5	3	0		12	3	1	3

Table VI: T-test Analysis for Representative Waterbirds from Point Count

The following hypothesis was made and a one-tail t-test will be used to test the data collected from the monitoring:

H_0 The data collected in the reporting month falls within the normal distrubution when compare to the baseline monitoring data.

H_1 The data collected does not falls within the normal distrubution when compare to the baseline monitoring data.

If t-test value for a specific representative is smaller than the critical value, then rejects H_0.

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

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

Representative Species			T-value	Confidence Level		T-value	Confidence Level		Overall
Species Name	Common Name	Chinese Name	Monthly	95%	99%	Seasonal	95%	99%	
Egretta garzetta	Little Egret	小白鷺	-2.251	✓	✓	-3.877	✕	✓	✓
Ardea cinerea	Grey Heron	蒼鷺	N/A*						
Ardeola bacchus	Chinese Pond Heron	池鷺	-1.768	✓	✓	-4.503	✕	✓	✓
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	N/A*						
Ardea alba	Great Egret	大白鷺	0.926	✓	✓	0.365	✓	✓	✓
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	2.315	✓	✓	-0.292	✓	✓	✓

Remarks

* Great Cormorant (*Phalacrocorax carbo*) and Grey Heron (*Ardea cinerea*) were not recognised as representative waterbird species during Summer.

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

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

APPENDIX J
PHOTO RECORDS OF ECOLOGICAL MONITORING

Appendix J - Photo Records of Ecological Monitoring

Part A - Conditions of Rivers

Sheung Yue River (Taken on 13 August 2021)

Ng Tung River (Taken on 13 August 2021)

Shek Sheung River (Taken on 13 August 2021)

Part B – Waterbird Species

Ardea alba (Taken on 20 August 2021)

Egretta garzetta (Taken on 13 August 2021)

Ardeola bacchus (Taken on 13 August 2021)

Bubulcus coromandus (Taken on 13 August 2021)

Halcyon smyrnensis (Taken on 13 August 2021)

Actitis hypoleucos (Taken on 13 August 2021)

Part C – Human Activities & Site Conditions

Crane (Project-related, taken on 13 August 2021)

Generator and sedimentation tank (Non-project-related, taken on 13 August 2021)

Excavation (Non-project-related, taken on 13 August 2021)

Lorry with Grabber (Non-project-related, taken on 13 August 2021)

Jaywalking (Non-project-related, taken on 13 August 2021)

Playing with R.C. Drone (Non-project-related, taken on 13 August 2021)

Fishing (Non-project-related, taken on 13 August 2021)

APPENDIX K
SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210806
Date	6 August 2021 (Friday)
Time	9:30 – 11:45

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210727).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		6 August 2021
Checked by	Ms. Betty Choi		9 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210813
Date	13 August 2021 (Friday)
Time	9:30 – 11:30

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210806).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		13 August 2021
Checked by	Ms. Betty Choi		16 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210817
Date	17 August 2021 (Tuesday)
Time	9:30 – 11:15

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210813).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		17 August 2021
Checked by	Ms. Betty Choi		18 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210824
Date	24 August 2021 (Tuesday)
Time	13:30 – 15:30

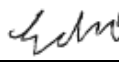
Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210817).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		24 August 2021
Checked by	Ms. Betty Choi		25 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210831
Date	31 August 2021 (Tuesday)
Time	9:30 – 11:15

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210824).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		31 August 2021
Checked by	Ms. Betty Choi		1 September 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210806
Date	6 August 2021 (Friday)
Time	9:30 – 11:45

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210727).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		6 August 2021
Checked by	Ms. Betty Choi		9 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210813
Date	13 August 2021 (Friday)
Time	9:30 – 11:30

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210806).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		13 August 2021
Checked by	Ms. Betty Choi		16 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210817
Date	17 August 2021 (Tuesday)
Time	9:30 – 11:15

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210813).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		17 August 2021
Checked by	Ms. Betty Choi		18 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210824
Date	24 August 2021 (Tuesday)
Time	13:30 – 15:30

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210817).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		24 August 2021
Checked by	Ms. Betty Choi		25 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210831
Date	31 August 2021 (Tuesday)
Time	9:30 – 11:15

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210824).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		31 August 2021
Checked by	Ms. Betty Choi		1 September 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210803
Date	3 August 2021 (Tuesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210727).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		3 August 2021
Checked by	Ms. Betty Choi		4 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210810
Date	10 August 2021 (Tuesday)
Time	10:00 – 11:00

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210803).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		10 August 2021
Checked by	Ms. Betty Choi		11 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210817
Date	17 August 2021 (Tuesday)
Time	10:30 – 11:30

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210810).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		17 August 2021
Checked by	Ms. Betty Choi		18 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210824
Date	24 August 2021 (Tuesday)
Time	14:30 – 15:30

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210817).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		24 August 2021
Checked by	Ms. Betty Choi		25 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210831
Date	31 August 2021 (Tuesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210824).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		31 August 2021
Checked by	Ms. Betty Choi		1 September 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210803
Date	3 August 2021 (Tuesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210727).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		3 August 2021
Checked by	Ms. Betty Choi		4 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210810
Date	10 August 2021 (Tuesday)
Time	10:00 – 11:00

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210803).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		10 August 2021
Checked by	Ms. Betty Choi		11 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210817
Date	17 August 2021 (Tuesday)
Time	10:30 – 11:30

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210810).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		17 August 2021
Checked by	Ms. Betty Choi		18 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210824
Date	24 August 2021 (Tuesday)
Time	14:30 – 15:30

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210817).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		24 August 2021
Checked by	Ms. Betty Choi		25 August 2021

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	210831
Date	31 August 2021 (Tuesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	D. Noise	
	• No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during the site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during the site inspection.	
	H. Permits /Licences	
	• No environmental deficiency was identified during the site inspection.	
	I. Others	
	No follow-up items from the previous site inspection (ref no.: 210824).	

	Name	Signature	Date
Recorded by	Ms. Echo Hung		31 August 2021
Checked by	Ms. Betty Choi		1 September 2021

APPENDIX L
WASTE FLOW TABLE

Name of Department: DSD

Contract No. DC/2018/06

Monthly Summary Waste Flow Table for 2021

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	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	Chemical Waste	Others, e.g. general refuse
	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	10.034	0.000	0.000	8.257	1.777	0.606	0.000	0.000	0.002	0.000	0.038
Feb	3.703	0.000	0.000	2.871	0.833	0.071	2.120	0.000	0.000	0.000	0.024
Mar	4.644	0.000	0.000	2.190	2.454	0.037	0.000	0.000	0.006	0.000	0.044
Apr	0.211	0.000	0.023	0.000	0.188	0.167	0.000	0.000	0.008	0.000	0.042
May	0.557	0.000	0.218	0.000	0.340	0.149	0.001	0.002	0.008	0.000	0.081
Jun	0.370	0.000	0.023	0.000	0.348	0.074	8.210	0.000	0.000	0.000	0.069
Sub-total	19.519	0.000	0.263	13.317	5.939	1.103	10.331	0.002	0.023	0.000	0.299
Jul	0.000	0.000	0.000	0.000	0.592	0.058	0.000	0.000	0.010	0.000	0.046
Aug	0.000	0.000	0.000	0.000	0.567	0.000	0.002	0.017	0.008	0.000	0.066
Sep											
Oct											
Nov											
Dec											
Total	19.519	0.000	0.263	13.317	7.099	1.161	10.333	0.018	0.041	0.000	0.411

Notes:

1. Assume the density of soil fill is 2 ton/m3.
2. Assume the density of rock and broken concrete is 2.5 ton/m3.
3. Assume the density of general refuse is 0.9 ton/m3.
4. Assume density of waste oil is assued to be 0.8 kg/L.
5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38.
6. The slurry and bentonite are disposed at Tseung Kwun O 137.
7. The non-inert C&D wastes are disposed at NENT.

Name of Department: DSD

Contract No. DC/2018/07

Monthly Summary Waste Flow Table for 2021

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	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	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 '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	0.836	0.000	0.000	0.000	0.836	0.301	21.25	0.000	0.002	0.000	0.006
Feb	0.911	0.000	0.000	0.000	0.911	0.376	39.35	0.000	0.000	0.000	0.007
Mar	0.954	0.000	0.000	0.000	0.954	0.202	0.00	0.000	0.003	0.000	0.016
Apr	0.550	0.000	0.000	0.046	0.504	0.000	0.00	0.000	0.008	0.000	0.009
May	1.368	0.000	0.000	0.149	1.220	0.000	0.00	0.000	0.008	0.000	0.012
Jun	0.670	0.000	0.000	0.074	0.596	0.000	0.00	0.010	0.000	0.000	0.012
Sub-total	5.290	0.000	0.000	0.269	5.021	0.879	60.60	0.010	0.020	0.000	0.062
Jul	2.818	0.000	0.000	0.058	2.760	0.000	0.00	0.000	0.010	0.000	0.011
Aug	5.061	0.000	0.000	0.000	5.061	0.000	24.14	0.013	0.014	0.000	0.010
Sep											
Oct											
Nov											
Dec											
Total	13.168	0.000	0.000	0.327	12.842	0.879	84.74	0.023	0.044	0.000	0.084

Notes:

1. Assume the density of soil fill and special waste (i.e. sediment from DSD sedimentation tank) is 2 ton/m3.
2. Assume the density of rock and broken concrete is 2.5 ton/m3
3. Assume the density of general refuse is 0.9 ton/m3
4. Density of waste oil is assued to be 0.8 kg/L. Chemical waste includes waste oil.
5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38
6. The slurry and bentonite are disposed at Tseung Kwun O 137
7. The non-inert C&D wastes, including general refuse & special waste (i.e. sediment from DSD sedimentation tank) are disposed at NENT

Name of Department: ~~ArchSD/CEDD~~/DSD/~~EMSD/HyD/WSD~~ Contract No.: DE/2018/03

Monthly Summary Waste Flow Table for 2021 (year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	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	9.53 T	0	0	0	9.53 T	0	0	0	0	0	0
Feb	3.47T	0	0	0	3.47 T	0	0	0	0	0	0
Mar	14.79T	0	0	0	14.79T	0	0	0	0	0	0
Apr	7.21T	0	0	0	7.21T	0	0	0	0	0	0
May	11.34T	0	0	0	11.34T	0	0	0	0	0	0
June	328.08T	0	0	0	328.08T	0	0	0	0	0	0
Sub-total	374.42T	0	0	0	374.42T	0	0	0	0	0	0
July	579.34T	0	0	0	579.34T	0	0	0.131	0.007	0	0
Aug	64.14T	0	0	0	64.14T	0	0	0.11	0	0	6.13T
Sept											
Oct											
Nov											
Dec											
Total	1017.9T	0	0	0	1017.9T	0	0	0.241	0.007	0	6.13T

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	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA

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

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

Monthly Summary Waste Flow Table for 2021 (year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan	230.16	0	0	0	230.16	0	0	0	0	0	1.54
Feb	175.98	0	100	0	75.98	0	0	0	0	0	3.63
Mar	11.98	0	0	0	11.98	0	0	0	0	0	1.35
Apr	0	0	0	0	0	0	0	0	0	0	1.48
May	0	0	0	0	0	0	0	0	0	0	3.25
June	0	0	0	0	0	0	0	0	0	0	2.01
Sub-total	418.12	0	100	0	318.12	0	0	0	0	0	13.26
July	0	0	0	0	0	0	0	0	0	0	4.21
Aug	0	0	0	0	0	0	0	0	0	0	1.09
Sept											
Oct											
Nov											
Dec											
Total	418.12	0	100	0	318.12	0	0	0	0	0	18.56

APPENDIX M
EVENT AND ACTION PLANS

Appendix M - Event Action Plans

Table M-1 Event/Action Plan for Air Quality

Event	Action			
	ET	IEC	ER	Contractor
Action level being exceeded by one sampling	1. Identify source, investigate the causes of complaint and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues,	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to IEC within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Appendix M - Event Action Plans

Event	Action			
	ET	IEC	ER	Contractor
	arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.			
Limit level being exceeded by one sampling	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform Contractor, IEC, ER, and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Limit level being exceeded by two or more consecutive sampling	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings;	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification;

Appendix M - Event Action Plans

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

Appendix M - Event Action Plans

Table M-2 Event/Action Plan for Construction Noise

Event	Action			
	ET	IEC	ER	Contractor
Action Level	1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem;	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals;

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Event	Action			
	ET	**IEC**	**ER**	**Contractor**
	Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	3. Supervise the implementation of remedial measures.	4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix M - Event Action Plans

Table M-3 Event/Action Plan for Ecology

Action Level	Response	Limit Level	Response
Construction Phase			
Decline in numbers of all waterbird species relative to numbers during Baseline Monitoring such that the Action Level response is triggered.	Investigate cause and if cause identified as related to the Project instigate remedial action to remove or reduce source of disturbance.	Decline in numbers of all waterbird species relative to numbers during Baseline Monitoring such that the Limit Level response is triggered.	Investigate cause and if caused identified as related to the Project instigate remedial action.
Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Action Level response is triggered.	Investigate cause and if cause identified as related to the Project instigate remedial action to remove or reduce source of disturbance.	Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Limit Level response is triggered.	Investigate cause and if caused identified as related to the Project instigate remedial action.

Appendix M - Event Action Plans

Table M-4 Event/Action Plan for Landscape and Visual

Event	Action			
	ET	IEC	ER	Contractor
Non-conformity on one occasion	1. Inform the Contractor, IEC and ER; 2. Discuss remedial actions with IEC, ER and Contractor 3. Monitor remedial actions until rectification has been completed.	1. Check inspection report; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise ER on effectiveness of proposed remedial measures.	1. Confirm receipt of notification of non-conformity in writing; 2. Review and agree on the remedial measures proposed by the Contractor; 3. Supervise implementation of remedial measures.	1. Identify source and investigate the non-conformity; 2. Implement remedial measures; 3. Amend working methods agreed with ER as appropriate; 4. Rectify damage and undertake any necessary replacement.

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Event	Action			
	ET	**IEC**	**ER**	**Contractor**
Repeated Non-conformity	1. Identify source; 2. Inform the Contractor, IEC and ER; 3. Discuss inspection frequency; 4. Discuss remedial actions with IEC, ER and Contractor; 5. Monitor remedial actions until rectification has been completed; 6. If non-conformity stops, cease additional monitoring.	1. Check inspection report; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise ER on effectiveness of proposed remedial measures.	1. Notify the Contractor; 2. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; 3. Supervise implementation of remedial measures.	1. Identify source and investigate the non-conformity; 2. Implement remedial measures; 3. Amend working methods agreed with ER as appropriate; 4. Rectify damage and undertake any necessary replacement. Stop relevant portion of works as determined by ER until the non-conformity is abated.

APPENDIX N
ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Air Quality Impact							
S2.3.1.3	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:	To minimize the dust impact	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Air Pollution Control Ordinance (APCO) and Air Pollution Control (Construction Dust) Regulation	^
	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;						^
	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;						^
	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;						^
	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.						^
	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;						^

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;	To minimize the dust impact	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Air Pollution Control Ordinance (APCO) and Air Pollution Control (Construction Dust) Regulation	^
	Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;						^
	Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;						N/A
	Any skip hoist for material transport should be totally enclosed by impervious sheeting;						N/A
	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;						N/A
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;						N/A
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and						N/A
	Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies						^

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)	^
S3.2.1.2	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, NCO	^
	Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.						^
	Mobile plant, if any, should be sited as far away from NSRs as possible.						^
	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.						^
	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.						^
	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 Impact							
S4.2.1.1	Solid dull green noise/visual barriers of at least 2m high shall be erected and maintained between active works area and all areas of ecological importance.	Minimize noise and human disturbances during construction phase.	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.2	Avoid unnecessary lighting.	Minimize mortality impacts on birds.	Design / Contractor/ Plant Operator	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.3	Good construction site practice to minimise dust generation should be followed on all construction sites. Measures to avoid, minimise and mitigate impacts on air quality are detailed in this schedule	Minimize dust generation from construction sites.	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.4	Temporary sewerage and drainage to be designed and installed to collect wastewater and prevent it from entering water bodies;	Avoid, minimise and mitigate impact on water quality	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
	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;						^
	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;						^

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 Stage 3	EIAO-TM	^
	Adequate lateral support should be erected where necessary in order to prevent soil/mud from slipping into water bodies;						^
	Site boundaries should be clearly marked and any works beyond the boundary strictly prohibited;						^
	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;						^
	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.						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;						^
	Speed control for the trucks carrying contaminated materials should be enforced;						^
	Vehicle wheel washing facilities at construction sites' exit points should be established and used, where necessary						^

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 Impact							
S5.2.2.1	Construction Site Runoff Practices and measures provided in the Practice Note for Professional Persons on Construction Site Drainage, (PROPECC PN1/94) should be followed where applicable.	Control construction runoff	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	^
S5.2.2.2 – S5.2.2.3	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.	Handling of site sewage	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	^
	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						^

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 Management							
S6.2.2.1	Nomination of an approved person, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;	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;						^
	Provision of sufficient waste disposal points and regular collection for disposal;						^
	Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;						^
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;						^
	An Environmental Management Plan (EMP) should be prepared by the contractor and submitted to the Supervisor for approval.						^
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	^
	Proper storage and site practices to minimize the potential for damage and contamination of construction materials;						^
	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;						^
	Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); and						^
	Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.						^

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, Stage 2 and Stage 3	WDO	^
	Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and						^
	Different locations should be designated to stockpile each material to enhance reuse.						^
S6.2.4.2	Remove waste in timely manner;	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	Employ the trucks with cover or enclosed containers for waste transportation						^
	Obtain relevant waste disposal permits from the appropriate authorities						^
	Disposal of waste should be done at licensed waste disposal facilities.						^
S6.2.5.2	Maintain temporary stockpiles and reuse excavated fill material for backfilling;	Minimize waste impacts from excavated and C&D materials	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	^
	Carry out on-site sorting;						^
	Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;						^
	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	^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S6.2.5.3	The use of wooden hoardings shall not be allowed. An alternative material, such as metal, aluminium or alloy etc, could be used.	Minimize waste impacts from building demolition and new building construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	^
	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.						^
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 ensure proper storage, handling and disposal	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General) Regulation, Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	^
	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.						^
S6.2.5.5	General refuse should be stored in enclosed bins separately from construction and chemical wastes.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General) Regulation	^
	Recycling bins should also be placed to encourage recycling.						^
	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.						^
	A reputable waste collector should be employed to remove general refuse on a daily basis.						^

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 Visual							
S7.3.1.1	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	Work Sites	Prior to construction and construction phase		N/A
	With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.						N/A
S7.3.2.1	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	Work Sites	Prior to construction and construction phase	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
S7.3.2.1	MM5 - Tree Transplantation Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC No. 2/2004 and DEVB TC(W) No. 7/2015 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be	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	^
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.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made 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
	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.						N/A

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

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S7.3.2.1	MM11 - Screen Planting Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Designer / Contractor	Along roads, around suitable built structures, or around VSRs to contain their view out to the structures.	Prior to construction, construction phase and operation phase	ETWB TCW No. 10/2013 and 3/2006	N/A
S7.3.2.1	MM16 - Screen Hoarding Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence.	To screen undesirable views of the works site.	Designer	Work Sites	Construction phase		^
S7.3.2.1	MM17 - Light Control Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs.	Designer / Contractor	Work Sites and/or the Plant	Construction phase and operation phase		^

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

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

Agreement No. SPW 07/2019

Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1

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

Reporting Month: August 2021

Log Ref.	Location	Received Date	Details of Complaint/Warning/Summon and Prosecution	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 • Clean the slurry sediment released from the outlet regularly by suction trucks • Avoid damage of underground drains and pipes caused by existing construction works • Avoid illegal discharge from the Site into foul drains and manholes	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
2	SWHEPP	19 February 2021	Significant odour nuisance was suspected to be emitted from the construction activities of SWHEPP	• Ensured only PMEs with valid NRMM label were used on-site • Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart • Used ULSD for diesel-powered equipment • Provided water spraying and water sprinklers system for haul road access and demolition works • Used battery powered solution to provide power to the tower crane • Provided cover for all rubbish bins on-site • Separated general refuse from construction waste	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
3	SWHEPP	9 August 2021	Air nuisance was suspected to be originated from the construction activities of SWHEPP	• Ensured only PMEs with valid NRMM label were used on-site • Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart • Used ULSD for diesel-powered equipment • Used battery powered solution to provide power to the tower crane • Carried out plant maintenance in a timely manner	Complaint Investigation Report (CIR) was submitted in August 2021

Remarks: 1 environmental complaint was received in the reporting period.
No warning/summon and prosecution was received in the reporting period.

APPENDIX P
SUMMARY OF EXCEEDANCE

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

Appendix P – Summary of Exceedance

Reporting Month: August 2021

(A) Exceedance Report for Air Quality
(NIL in the reporting month)

(B) Exceedance Report for Construction Noise
(NIL in the reporting month)

(C) Exceedance Report for Ecology
(NIL in the reporting month)

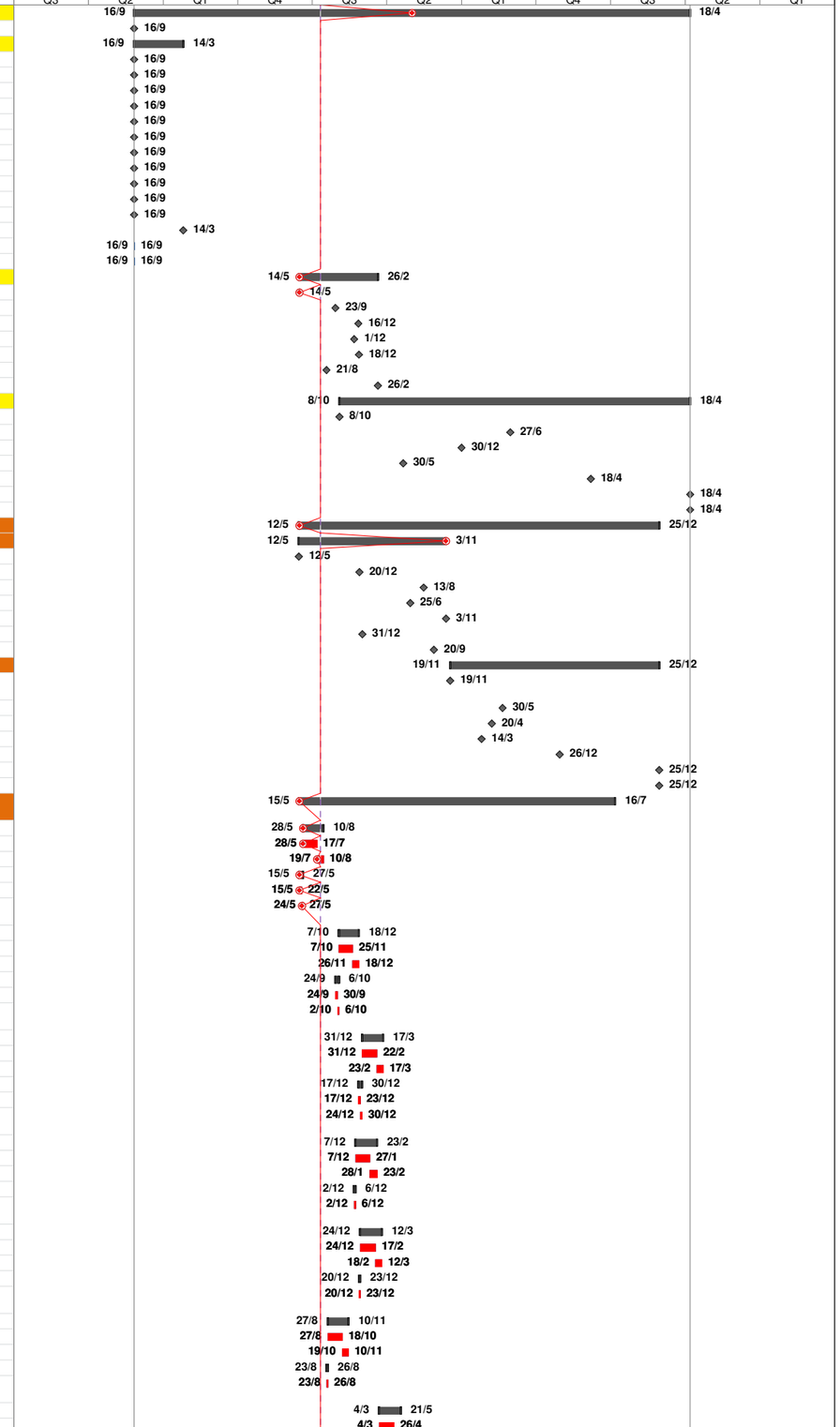
APPENDIX Q
TENTATIVE CONSTRUCTION PROGRAMME

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

Updated Programme (Status Date: 31/07/2021)

群利－俊和聯營體
KL－CW JV

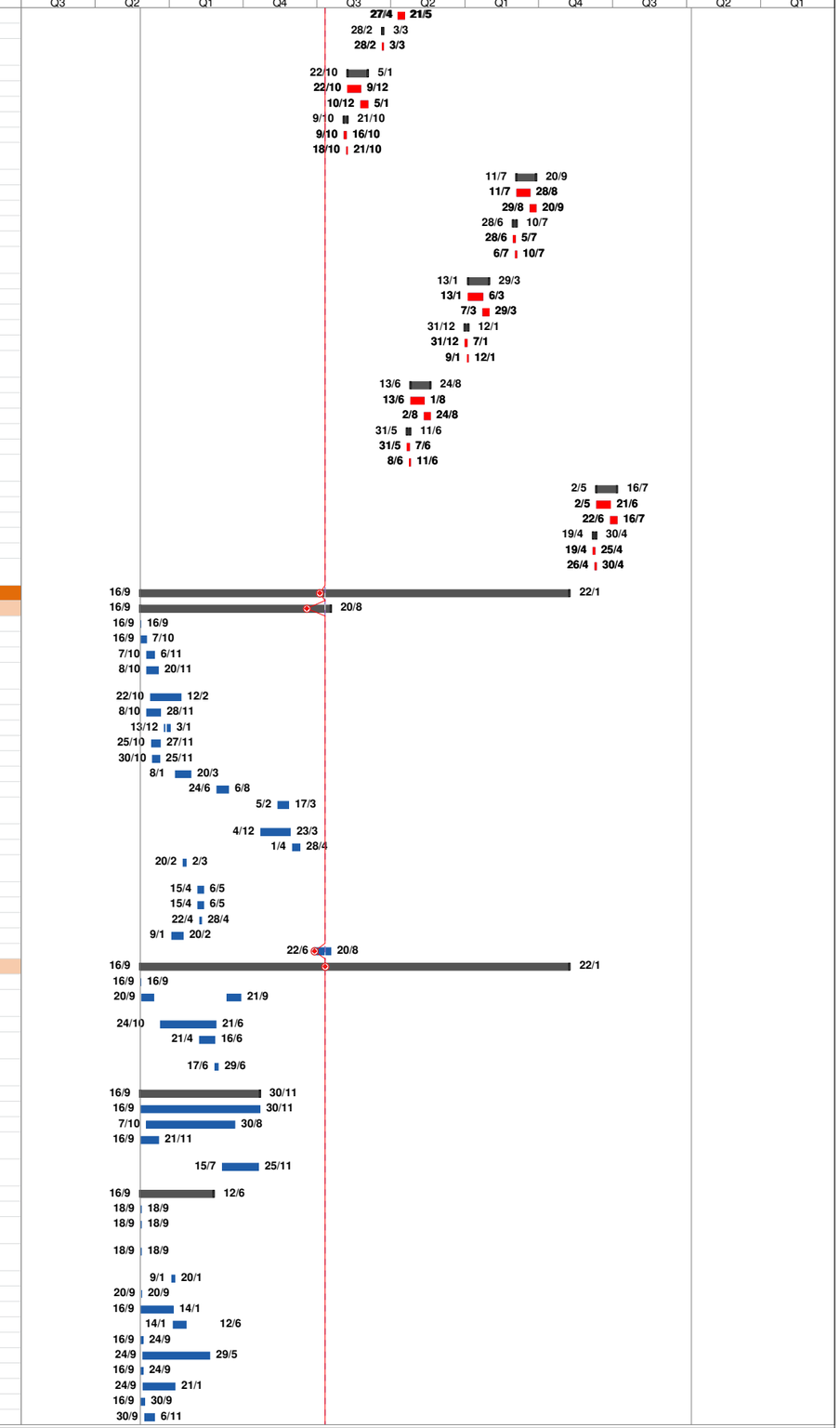
ID	Activity ID	KD	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors	Successors	% Comple	Time Risk Allowan
1	**CD-00000**		**Contract Dates**			**2042 days**	**Mon 16/9/19**	**Fri 18/4/25**	**Mon 16/9/19**	**NA**	**0 days**			**0%**	
2	CD-01000		Starting Date			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days		4,5FS+181 days,(	100%	
3	**CAD-00000**		**Access Date (cal. day)**			**180 days**	**Mon 16/9/19**	**Sat 14/3/20**	**Mon 16/9/19**	**Sat 14/3/20**	**0 days**			**100%**	
4	CAD-01000		Portion A-1			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
5	CAD-02000		Portion A-2			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2FS+181 days		100%	
6	CAD-03000		Portion C-1A			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
7	CAD-04000		Portion C-1B			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
8	CAD-05000		Portion C-2A			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
9	CAD-06000		Portion C-2B			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
10	CAD-07000		Portion C-2C			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
11	CAD-08000		Portion C-2D			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
12	CAD-09000		Portion C-3			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
13	CAD-10000		Portion C-4			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
14	CAD-11000		Portion C-5			0 days	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
15	CAD-12000		Portion C-6			0 days	Sat 14/3/20	Sat 14/3/20	Sat 14/3/20	Sat 14/3/20	0 days	2FS+181 days	450	100%	
16	CAD-13000		Works Area WA1			1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
17	CAD-14000		Works Area WA2-A			1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2		100%	
18	**CKD-00000**		**Key Date (cal. day)**			**288 days**	**Fri 14/5/21**	**Sat 26/2/22**	**NA**	**NA**	**-66 days**			**0%**	
19	CKD-01000		KD1A (606 days after starting date)			0 days	Fri 14/5/21	Fri 14/5/21	NA	NA	-66 days	2FS+607 days	56	0%	
20	CKD-02000		KD2A (738days after starting date)			0 days	Thu 23/9/21	Thu 23/9/21	NA	NA	-62 days	2FS+739 days	62	0%	
21	CKD-03000		KD3A (822 days after starting date)			0 days	Thu 16/12/21	Thu 16/12/21	NA	NA	-60 days	2FS+823 days	68	0%	
22	CKD-04000		KD3B (808 days after starting date)			0 days	Wed 1/12/21	Wed 1/12/21	NA	NA	-55 days	2FS+808 days	74	0%	
23	CKD-05000		KD3C (824 days after starting date)			0 days	Sat 18/12/21	Sat 18/12/21	NA	NA	-53 days	2FS+825 days	79	0%	
24	CKD-06000		KD3D (705days after starting date)			0 days	Sat 21/8/21	Sat 21/8/21	NA	NA	-54 days	2FS+706 days	84	0%	
25	CKD-07000		KD3E (893.5 days after starting date)			0 days	Sat 26/2/22	Sat 26/2/22	NA	NA	-58 days	2FS+895 days	89	0%	
26	**CCD-00000**		**Completion Date (cal. day)**			**1288 days**	**Fri 8/10/21**	**Fri 18/4/25**	**NA**	**NA**	**-63 days**			**0%**	
27	CCD-01000		Section 1 of Works (753 days after starting date)			0 days	Fri 8/10/21	Fri 8/10/21	NA	NA	-63 days	2FS+754 days	94	0%	
28	CCD-02000		Section 2 of Works (1,380 days after starting date)			0 days	Tue 27/6/23	Tue 27/6/23	NA	NA	-64 days	2FS+1381 days	100	0%	
29	CCD-03000		Section 3 of Works (1,201 days after starting date)			0 days	Fri 30/12/22	Fri 30/12/22	NA	NA	-63 days	2FS+1202 days	106	0%	
30	CCD-04000		Section 4 of Works (987 days after starting date)			0 days	Mon 30/5/22	Mon 30/5/22	NA	NA	-97 days	2FS+988 days	112	0%	
31	CCD-05000		Section 5 of Works (1,676 days after starting date)			0 days	Thu 18/4/24	Thu 18/4/24	NA	NA	-77 days	2FS+1677 days	32,33,118	0%	
32	CCD-06000		Defect Liability Period			365 days	Fri 19/4/24	Fri 18/4/25	NA	NA	0 days	31		0%	
33	CCD-07000		Soft Landscape Establishment Works			365 days	Fri 19/4/24	Fri 18/4/25	NA	NA	0 days	31		0%	
34	**PD-00000**	*	**Planned Completion - Key Date (cal. day)**			**1324 days**	**Wed 12/5/21**	**Wed 25/12/24**	**Wed 12/5/21**	**NA**	**114 days**			**0%**	
35	**PKD-00000**	*	**Planned Completion - Key Dates**			**541 days**	**Wed 12/5/21**	**Thu 3/11/22**	**Wed 12/5/21**	**NA**	**0 days**			**99%**	
36	PKD-01000	KD1A	KD1A			1 day	Wed 12/5/21	Wed 12/5/21	Wed 12/5/21	Wed 12/5/21	0 days	250FF		100%	
37	PKD-02000	KD2A	KD2A			0 days	Mon 20/12/21	Mon 20/12/21	NA	NA	-88 days	556FF,559FF,578FF,577FI		0%	
38	PKD-03000	KD3A	KD3A			0 days	Sat 13/8/22	Sat 13/8/22	NA	NA	-240 days	272FF		0%	
39	PKD-04000	KD3B	KD3B			0 days	Sat 25/6/22	Sat 25/6/22	NA	NA	-206 days	295FF		0%	
40	PKD-05000	KD3C	KD3C			0 days	Thu 3/11/22	Thu 3/11/22	NA	NA	-320 days	315FF		0%	
41	PKD-06000	KD3D	KD3D			0 days	Fri 31/12/21	Fri 31/12/21	NA	NA	-132 days	347FF		0%	
42	PKD-07000	KD3E	KD3E			0 days	Tue 20/9/22	Tue 20/9/22	NA	NA	-206 days	362FF,369FF,376FF,383FI		0%	
43	**PCD-00000**	*	**Planned Completion - Section of the Works (cal. day)**			**767 days**	**Sat 19/11/22**	**Wed 25/12/24**	**NA**	**NA**	**-407 days**			**0%**	
44	PCD-01000	SW1	Section 1 of Works			0 days	Sat 19/11/22	Sat 19/11/22	NA	NA	-407 days	447FF,483FF,491FF,510FI		0%	
45	PCD-02000	SW2	Section 2 of Works			0 days	Tue 30/5/23	Tue 30/5/23	NA	NA	28 days	561FF,579FF		0%	
46	PCD-03000	SW3	Section 3 of Works			0 days	Thu 20/4/23	Thu 20/4/23	NA	NA	-111 days	171FF,317FF,331FF,349FI	526	0%	
47	PCD-04000	SW4	Section 4 of Works			0 days	Tue 14/3/23	Tue 14/3/23	NA	NA	-288 days	401FF,448FF,478FF,480FI		0%	
48	PCD-05000	SW5	Section 5 of Works			0 days	Tue 26/12/23	Tue 26/12/23	NA	NA	0 days	252FF,277FF,299FF,319FI	49,50	0%	
49	PCD-06000	DLP	Defect Liability Period			365 days	Wed 27/12/23	Wed 25/12/24	NA	NA	114 days	48		0%	
50	PCD-07000		Soft Landscape Establishment Works			365 days	Wed 27/12/23	Wed 25/12/24	NA	NA	0 days	48		0%	
51	**DE-00000**		**Delaying Events Other than Change of Works Information to be considered**			**932 days**	**Sat 15/5/21**	**Tue 16/7/24**	**NA**	**NA**	**-52 days**			**0%**	
52	**IWKD1A-01000**		**Inclement Weather to KD1A**			**62 days**	**Fri 28/5/21**	**Tue 10/8/21**	**NA**	**NA**	**-52 days**			**0%**	
53	IWKD1A-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Fri 28/5/21	Sat 17/7/21	NA	NA	-52 days	57	54	0%	
54	IWKD1A-01020	KD1A	Delay and Disruption of Works for the month of July 2021			20 days	Mon 19/7/21	Tue 10/8/21	NA	NA	-52 days	53		0%	
55	**OEKD1A-01000**		**Other Events affected to KD1A**			**10 days**	**Sat 15/5/21**	**Thu 27/5/21**	**NA**	**NA**	**-52 days**			**0%**	
56	OEKD1A-01010		Unforeseen Social Activities in Hong Kong in November 2019		(3)	6 days	Sat 15/5/21	Sat 22/5/21	NA	NA	-52 days	19	57	0%	
57	OEKD1A-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Mon 24/5/21	Thu 27/5/21	NA	NA	-52 days	56	53	0%	
58	**IWKD2A-01000**		**Inclement Weather to KD2A**			**62 days**	**Thu 7/10/21**	**Sat 18/12/21**	**NA**	**NA**	**-52 days**			**0%**	
59	IWKD2A-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Thu 7/10/21	Thu 25/11/21	NA	NA	-52 days	63	60	0%	
60	IWKD2A-01020	KD2A	Delay and Disruption of Works for the month of July 2021			20 days	Fri 26/11/21	Sat 18/12/21	NA	NA	-52 days	59		0%	
61	**OEKD2A-01000**		**Other Events affected to KD2A**			**10 days**	**Fri 24/9/21**	**Wed 6/10/21**	**NA**	**NA**	**-52 days**			**0%**	
62	OEKD2A-01010		Unforeseen Social Activities in Hong Kong in November 2019		(3)	6 days	Fri 24/9/21	Thu 30/9/21	NA	NA	-52 days	20	63	0%	
63	OEKD2A-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Sat 2/10/21	Wed 6/10/21	NA	NA	-52 days	62	59	0%	
64	**IWKD3A-01000**		**Inclement Weather to KD3A**			**62 days**	**Fri 31/12/21**	**Thu 17/3/22**	**NA**	**NA**	**-52 days**			**0%**	
65	IWKD3A-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Fri 31/12/21	Tue 22/2/22	NA	NA	-52 days	69	66	0%	
66	IWKD3A-01020	KD3A	Delay and Disruption of Works for the month of July 2021			20 days	Wed 23/2/22	Thu 17/3/22	NA	NA	-52 days	65		0%	
67	**OEKD3A-01000**		**Other Events affected to KD3A**			**10 days**	**Fri 17/12/21**	**Thu 30/12/21**	**NA**	**NA**	**-52 days**			**0%**	
68	OEKD3A-01010		Unforeseen Social Activities in Hong Kong in November 2019		(3)	6 days	Fri 17/12/21	Thu 23/12/21	NA	NA	-52 days	21	69	0%	
69	OEKD3A-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Fri 24/12/21	Thu 30/12/21	NA	NA	-52 days	68	65	0%	
70	**IWKD3B-01000**		**Inclement Weather to KD3B**			**62 days**	**Tue 7/12/21**	**Wed 23/2/22**	**NA**	**NA**	**-46 days**			**0%**	
71	IWKD3B-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Tue 7/12/21	Thu 27/1/22	NA	NA	-46 days	74	72	0%	
72	IWKD3B-01020	KD3B	Delay and Disruption of Works for the month of July 2021			20 days	Fri 28/1/22	Wed 23/2/22	NA	NA	-46 days	71		0%	
73	**OEKD3B-01000**		**Other Events affected to KD3B**			**4 days**	**Thu 2/12/21**	**Mon 6/12/21**	**NA**	**NA**	**-46 days**			**0%**	
74	OEKD3B-01010		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Thu 2/12/21	Mon 6/12/21	NA	NA	-46 days	22	71	0%	
75	**IWKD3C-01000**		**Inclement Weather to KD3C**			**62 days**	**Fri 24/12/21**	**Sat 12/3/22**	**NA**	**NA**	**-46 days**			**0%**	
76	IWKD3C-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Fri 24/12/21	Thu 17/2/22	NA	NA	-46 days	79	77	0%	
77	IWKD3C-01020	KD3C	Delay and Disruption of Works for the month of July 2021			20 days	Fri 18/2/22	Sat 12/3/22	NA	NA	-46 days	76		0%	
78	**OEKD3C-01000**		**Other Events affected to KD3C**			**4 days**	**Mon 20/12/21**	**Thu 23/12/21**	**NA**	**NA**	**-46 days**			**0%**	
79	OEKD3C-01010		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Mon 20/12/21	Thu 23/12/21	NA	NA	-46 days	23	76	0%	
80	**IWKD3D-01000**		**Inclement Weather to KD3D**			**62 days**	**Fri 27/8/21**	**Wed 10/11/21**	**NA**	**NA**	**-46 days**			**0%**	
81	IWKD3D-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Fri 27/8/21	Mon 18/10/21	NA	NA	-46 days	84	82	0%	
82	IWKD3D-01020	KD3D	Delay and Disruption of Works for the month of July 2021			20 days	Tue 19/10/21	Wed 10/11/21	NA	NA	-46 days	81		0%	
83	**OEKD3D-01000**		**Other Events affected to KD3D**			**4 days**	**Mon 23/8/21**	**Thu 26/8/21**	**NA**	**NA**	**-46 days**			**0%**	
84	OEKD3D-01010		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Mon 23/8/21	Thu 26/8/21	NA	NA	-46 days	24	81	0%	
85	**IWKD3E-01000**		**Inclement Weather to KD3E**			**62 days**	**Fri 4/3/22**	**Sat 21/5/22**	**NA**	**NA**	**-46 days**			**0%**	
86	IWKD3E-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Fri 4/3/22	Tue 26/4/22	NA	NA	-46 days	89	87	0%	



Critical Split | Task | Milestone | Summary | Critical

Updated Programme (Status Date: 31/07/2021)

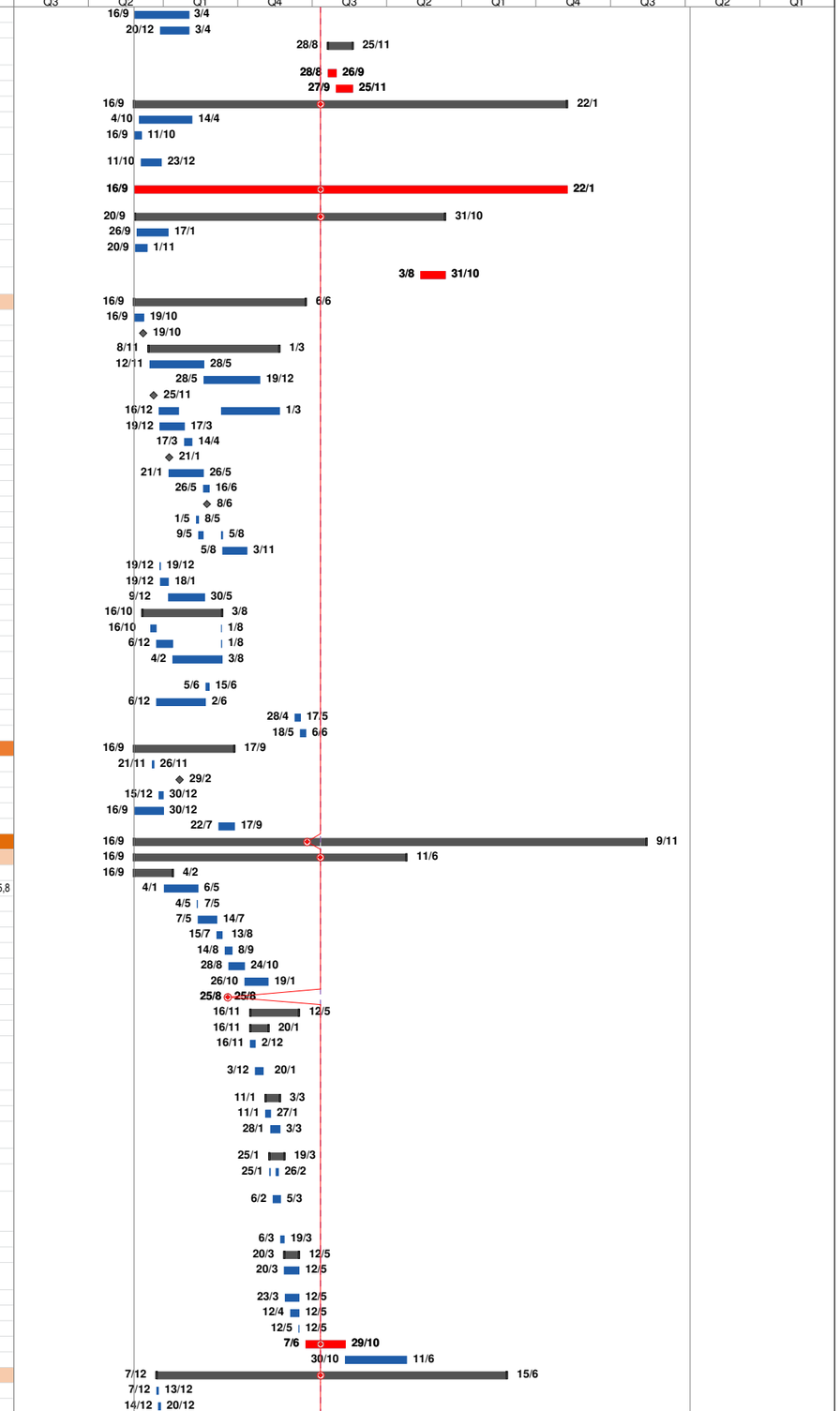
ID	Activity ID	KD	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors	Successors	% Comple	Time Risk Allowan
87	IWKD3E-01020	KD3E	Delay and Disruption of Works for the month of July 2021			20 days	Wed 27/4/22	Sat 21/5/22	NA	NA	-46 days	86		0%	
88	**OEKD3E-01000**		**Other Events affected to KD3E**			**4 days**	**Mon 28/2/22**	**Thu 3/3/22**	**NA**	**NA**	**-46 days**			**0%**	
89	OEKD3E-01010		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Mon 28/2/22	Thu 3/3/22	NA	NA	-46 days	25	86	0%	
90	**IWSW1-01000**		**Inclement Weather to Section 1 of the Works**			**62 days**	**Fri 22/10/21**	**Wed 5/1/22**	**NA**	**NA**	**-52 days**			**0%**	
91	IWSW1-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Fri 22/10/21	Thu 9/12/21	NA	NA	-52 days	95	92	0%	
92	IWSW1-01020	SW1	Delay and Disruption of Works for the month of July 2021			20 days	Fri 10/12/21	Wed 5/1/22	NA	NA	-52 days	91		0%	
93	**OESW1-01000**		**Other Events affected to Section 1 of the Works**			**10 days**	**Sat 9/10/21**	**Thu 21/10/21**	**NA**	**NA**	**-52 days**			**0%**	
94	OESW1-01010		Unforeseen Social Activities in Hong Kong in November 2019		(3)	6 days	Sat 9/10/21	Sat 16/10/21	NA	NA	-52 days	27	95	0%	
95	OESW1-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Mon 18/10/21	Thu 21/10/21	NA	NA	-52 days	94	91	0%	
96	**IWSW2-01000**		**Inclement Weather to Section 2 of the Works**			**62 days**	**Tue 11/7/23**	**Wed 20/9/23**	**NA**	**NA**	**-52 days**			**0%**	
97	IWSW2-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Tue 11/7/23	Mon 28/8/23	NA	NA	-52 days	101	98	0%	
98	IWSW2-01020	SW2	Delay and Disruption of Works for the month of July 2021			20 days	Tue 29/8/23	Wed 20/9/23	NA	NA	-52 days	97		0%	
99	**OESW2-01000**		**Other Events affected to Section 2 of the Works**			**10 days**	**Wed 28/6/23**	**Mon 10/7/23**	**NA**	**NA**	**-52 days**			**0%**	
100	OESW2-01010		Unforeseen Social Activities in Hong Kong in November 2019		(3)	6 days	Wed 28/6/23	Wed 5/7/23	NA	NA	-52 days	28	101	0%	
101	OESW2-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Thu 6/7/23	Mon 10/7/23	NA	NA	-52 days	100	97	0%	
102	**IWSW3-01000**		**Inclement Weather to Section 3 of the Works**			**62 days**	**Fri 13/1/23**	**Wed 29/3/23**	**NA**	**NA**	**-52 days**			**0%**	
103	IWSW3-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Fri 13/1/23	Mon 6/3/23	NA	NA	-52 days	107	104	0%	
104	IWSW3-01020	SW3	Delay and Disruption of Works for the month of July 2021			20 days	Tue 7/3/23	Wed 29/3/23	NA	NA	-52 days	103		0%	
105	**OESW3-01000**		**Other Events affected to Section 3 of the Works**			**10 days**	**Sat 31/12/22**	**Thu 12/1/23**	**NA**	**NA**	**-52 days**			**0%**	
106	OESW3-01010		Unforeseen Social Activities in Hong Kong in November 2019		(3)	6 days	Sat 31/12/22	Sat 7/1/23	NA	NA	-52 days	29	107	0%	
107	OESW301020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Mon 9/1/23	Thu 12/1/23	NA	NA	-52 days	106	103	0%	
108	**IWSW4-01000**		**Inclement Weather to Section 4 of the Works**			**62 days**	**Mon 13/6/22**	**Wed 24/8/22**	**NA**	**NA**	**-77 days**			**0%**	
109	IWSW4-01010	SW4	Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Mon 13/6/22	Mon 1/8/22	NA	NA	-77 days	113	110	0%	
110	IWSW4-01020		Delay and Disruption of Works for the month of July 2021			20 days	Tue 2/8/22	Wed 24/8/22	NA	NA	-77 days	109		0%	
111	**OESW4-01000**		**Other Events affected to Section 4 of the Works**			**10 days**	**Tue 31/5/22**	**Sat 11/6/22**	**NA**	**NA**	**-77 days**			**0%**	
112	OESW4-01010		Unforeseen Social Activities in Hong Kong in November 2019		(3)	6 days	Tue 31/5/22	Tue 7/6/22	NA	NA	-77 days	30	113	0%	
113	OESW4-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Wed 8/6/22	Sat 11/6/22	NA	NA	-77 days	112	109	0%	
114	**IWSW5-01000**		**Inclement Weather to Section 5 of the Works**			**62 days**	**Thu 2/5/24**	**Tue 16/7/24**	**NA**	**NA**	**-52 days**			**0%**	
115	IWSW5-01010		Delay and Disruption of Works before July 2021	(204),(228),(254)		42 days	Thu 2/5/24	Fri 21/6/24	NA	NA	-52 days	119	116	0%	
116	IWSW5-01020	SW5	Delay and Disruption of Works for the month of July 2021			20 days	Sat 22/6/24	Tue 16/7/24	NA	NA	-52 days	115		0%	
117	**OESW5-01000**		**Other Events affected to Section 5 of the Works**			**10 days**	**Fri 19/4/24**	**Tue 30/4/24**	**NA**	**NA**	**-52 days**			**0%**	
118	OESW5-01010		Unforeseen Social Activities in Hong Kong in November 2019		(3)	6 days	Fri 19/4/24	Thu 25/4/24	NA	NA	-52 days	31	119	0%	
119	OESW5-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5	4 days	Fri 26/4/24	Tue 30/4/24	NA	NA	-52 days	118	115	0%	
120	**SUB-00000**		**Submissions (cal. day)**			**1590 days**	**Mon 16/9/19**	**Mon 22/1/24**	**Mon 16/9/19**	**NA**	**0 days**			**84%**	
121	**SUBS-00000**		**Subletting Package**			**705 days**	**Mon 16/9/19**	**Fri 20/8/21**	**Mon 16/9/19**	**NA**	**70 days**			**92%**	
122	SUBS-01000		Prepare & Submit Subletting Procedures			1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2	123	100%	
123	SUBS-02000		PM Review & Accept Subletting Procedures			21 days	Mon 16/9/19	Mon 7/10/19	Mon 16/9/19	Mon 7/10/19	0 days	122	125,127,124,126,	100%	
124	SUBS-03000		Subletting 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	123		100%	
125	SUBS-04000		Subletting for Drainage Diversion Works for UV System no.1& Effluent Pumping Station No.1 (NCE no. 3)			44 days	Tue 8/10/19	Wed 20/11/19	Tue 8/10/19	Wed 20/11/19	0 days	123	443	100%	
126	SUBS-05000		Subletting for the Temporary Site accommodation			114 days	Tue 22/10/19	Wed 12/2/20	Tue 22/10/19	Wed 12/2/20	0 days	123	214	100%	
127	SUBS-06000		Subletting for Pre-drilling Works (NCE no.3)			52 days	Tue 8/10/19	Thu 28/11/19	Tue 8/10/19	Thu 28/11/19	0 days	123	128SS+15 days,1	100%	
128	SUBS-07000		Subletting for Pre-bored Socketed Steel H-Pile			13.98 days	Fri 13/12/19	Fri 3/1/20	Fri 13/12/19	Fri 3/1/20	0 days	127SS+15 days	538,261,285,305,	100%	
129	SUBS-08000		Subletting for Contractor's Designer for Temporary Works (NCE no.3)			32 days	Fri 25/10/19	Wed 27/11/19	Fri 25/10/19	Wed 27/11/19	0 days	127SS+15 days	133,131,145,138,	100%	
130	SUBS-09000		Subletting for Independent Checking Engineer (NCE no.3)			27 days	Wed 30/10/19	Mon 25/11/19	Wed 30/10/19	Mon 25/11/19	0 days	123	232,266,288,307,	100%	
131	SUBS-10000		Subletting for Sheetpile and ELS Works	17		58 days	Wed 8/1/20	Fri 20/3/20	Wed 8/1/20	Fri 20/3/20	0 days	129	232,266,288,307,	100%	
132	SUBS-11000		Subletting for R.C Works (Portion A and UV no.1 building only)	33, 45, 46		44 days	Wed 24/6/20	Thu 6/8/20	Wed 24/6/20	Thu 6/8/20	0 days	129	235	100%	
133	SUBS-12000		Subletting for R.C Works (remaining buildings)	268, 338		41 days	Fri 5/2/21	Wed 17/3/21	Fri 5/2/21	Wed 17/3/21	0 days	129	309,544,368,383,	100%	
134	SUBS-13000		Subletting for Waterproofing for Structures	(112), 268,338		110 days	Fri 4/12/20	Tue 23/3/21	Fri 4/12/20	Tue 23/3/21	0 days	2	238,241,244,267,	100%	
135	SUBS-14000		Subletting for ABWF & BS Works	268 , 338, (204)		28 days	Thu 1/4/21	Wed 28/4/21	Thu 1/4/21	Wed 28/4/21	0 days	123	251,275,297,317,	100%	
136	SUBS-15000		Subletting for External Works including pipeworks and road works for UV System no.1 (Diversion)			12 days	Thu 20/2/20	Mon 2/3/20	Thu 20/2/20	Mon 2/3/20	0 days	123	443,137	100%	
137	SUBS-16000		Subletting for Drainage and Pipe works at UV System no.1	21		22 days	Wed 15/4/20	Wed 6/5/20	Wed 15/4/20	Wed 6/5/20	0 days	136		100%	
138	SUBS-17000		Subletting for Pipeworks, Utilities, and Roadworks	21		22 days	Wed 15/4/20	Wed 6/5/20	Wed 15/4/20	Wed 6/5/20	0 days	129	482,479,480,481,	100%	
139	SUBS-18000		Subletting for trenchless construction	21		7 days	Wed 22/4/20	Tue 28/4/20	Wed 22/4/20	Tue 28/4/20	0 days	123	450	100%	
140	SUBS-19000		Subletting for Traffic Management Consultant			43 days	Thu 9/1/20	Thu 20/2/20	Thu 9/1/20	Thu 20/2/20	0 days	123	152	100%	
141	SUBS-20000		Subletting for Hard Landscape and Soft Landscape			60 days	Tue 22/6/21	Fri 20/8/21	NA	NA	70 days	123	527,519,520,521	0%	
142	**SUBA-00000**		**Statutory Submission, Submission & Approval**			**1590 days**	**Mon 16/9/19**	**Mon 22/1/24**	**Mon 16/9/19**	**NA**	**0 days**			**76%**	
143	SUBA-01000		Prepare and Submit Subcontractor Management Plan (SMP)			1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	0 days	2	257	100%	
144	SUBA-02000		Prepare, submit & approve the layout plan of the Temporary Site accommodation			97.9 days	Fri 20/9/19	Mon 21/9/20	Fri 20/9/19	Mon 21/9/20	0 days	2	214	100%	
145	SUBA-03000		Prepare, submit & accept the ELS design for deep excavation	17, 25, 27, 32		207 days	Thu 24/10/19	Sun 21/6/20	Thu 24/10/19	Sun 21/6/20	0 days	129	232,266,288,307,	100%	
146	SUBA-04000		Prepare, submit & accept the Method Statement for Drainage Diversion Works	21, 22, 33		57 days	Tue 21/4/20	Tue 16/6/20	Tue 21/4/20	Tue 16/6/20	0 days	2	147,443	100%	
147	SUBA-05000		PM approve the Method Statement for Drainage Diversion Works			13 days	Wed 17/6/20	Mon 29/6/20	Wed 17/6/20	Mon 29/6/20	0 days	146	443	100%	
148	SUBA-06000		TTA Management			442 days	Mon 16/9/19	Mon 30/11/20	Mon 16/9/19	Mon 30/11/20	0 days			100%	
149	SUBA-06010		Excavation Permit Application for San Wan Road (Portion A)			442 days	Mon 16/9/19	Mon 30/11/20	Mon 16/9/19	Mon 30/11/20	0 days		562	100%	
150	SUBA-06020		Excavation Permit Application for Chuk Wan Street (Portion C)			329 days	Mon 7/10/19	Sun 30/8/20	Mon 7/10/19	Sun 30/8/20	0 days	2FS+21 days		100%	
151	SUBA-06030		Prepare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion			67 days	Mon 16/9/19	Thu 21/11/19	Mon 16/9/19	Thu 21/11/19	0 days	2	443	100%	
152	SUBA-06040		Prepare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation			134 days	Wed 15/7/20	Wed 25/11/20	Wed 15/7/20	Wed 25/11/20	0 days	140	564	100%	
153	SUBA-07000		**Environmental Aspect Submissions**			**271 days**	**Mon 16/9/19**	**Fri 12/6/20**	**Mon 16/9/19**	**Fri 12/6/20**	**0 days**	**2**		**100%**	
154	SUBA-07010		Notification to EPD for Works Commencement			1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	0 days	2	257	100%	
155	SUBA-07020		Apply & approve for Registration as a Chemical Waste Producer			1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	0 days	2	257	100%	
156	SUBA-07030		Apply & approve for a Billing Account for Disposal of Construction Waste			1 day	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	Wed 18/9/19	0 days	2	257	100%	
157	SUBA-07040		Apply & approve for Effluent Discharge Licence			12 days	Thu 9/1/20	Mon 20/1/20	Thu 9/1/20	Mon 20/1/20	0 days	2	257	100%	
158	SUBA-07050		Prepare & submit of Project Layout Plan & O-Chart for EP			1 day	Fri 20/9/19	Fri 20/9/19	Fri 20/9/19	Fri 20/9/19	0 days	2	257	100%	
159	SUBA-07060		Prepare & submit Construction Noise Permits			121 days	Mon 16/9/19	Tue 14/1/20	Mon 16/9/19	Tue 14/1/20	0 days	2	160	100%	
160	SUBA-07070		Approval of Construction Noise Permits			48 days	Tue 14/1/20	Fri 12/6/20	Tue 14/1/20	Fri 12/6/20	0 days	159	257	100%	
161	SUBA-07080		Prepare, submit Site Management Plan for Trip Ticket System			9 days	Mon 16/9/19	Tue 24/9/19	Mon 16/9/19	Tue 24/9/19	0 days	2		100%	
162	SUBA-07090		Approval of Site Management Plan for Trip Ticket System			249 days	Tue 24/9/19	Fri 29/5/20	Tue 24/9/19	Fri 29/5/20	0 days		257	100%	
163	SUBA-07100		Prepare & submit approve Waste Management Plan			9 days	Mon 16/9/19	Tue 24/9/19	Mon 16/9/19	Tue 24/9/19	0 days	2	164	100%	
164	SUBA-07110		Approval of Waste Management Plan			119 days	Tue 24/9/19	Tue 21/1/20	Tue 24/9/19	Tue 21/1/20	0 days	163	257	100%	
165	SUBA-07120		Prepare & submit Environmental Management Plan			15 days	Mon 16/9/19	Mon 30/9/19	Mon 16/9/19	Mon 30/9/19	0 days	2	166	100%	
166	SUBA-07130		Approval of Environmental Management Plan			37 days	Mon 30/9/19	Wed 6/11/19	Mon 30/9/19	Wed 6/11/19	0 days	165	257	100%	



Critical Split · · · · · · · · · · · · · · · Task ▬▬▬ Milestone ◆ Summary ▬▬▬ Critical ▬▬▬

Updated Programme (Status Date: 31/07/2021)

ID	Activity ID	KD	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors	Successors	% Comple	Time Risk Allowan
167	SUBA-07140		Prepare& submit for Temporary Drainage and Management Plan			201 days	Mon 16/9/19	Fri 3/4/20	Mon 16/9/19	Fri 3/4/20	0 days	2	168	100%	
168	SUBA-07150		Approval of Temporary Drainage and Management Plan			106 days	Fri 20/12/19	Fri 3/4/20	Fri 20/12/19	Fri 3/4/20	0 days	167	443	100%	
169	SUBA-08000		Prepare, submit & approve for the FSD submissions for CLP 132kV Substation			**90 days**	**Sat 28/8/21**	**Thu 25/11/21**	**NA**	**NA**	**0 days**			**0%**	
170	SUBA-08010		Prepare and submit arrangement and schedure to FSD			30 days	Sat 28/8/21	Sun 26/9/21	NA	NA	0 days	171SS-1 emon		0%	
171	SUBA-08020		FSD approve the arrangement and schedule			60 days	Mon 27/9/21	Thu 25/11/21	NA	NA	0 days	558SS-2 emons	46FF,170SS-1 en	0%	
172	SUBA-09000		**Trees Related Submissions**			**1590 days**	**Mon 16/9/19**	**Mon 22/1/24**	**Mon 16/9/19**	**NA**	**0 days**			**53%**	
173	SUBA-09010		Initial Tree survey and report submission			194 days	Fri 4/10/19	Tue 14/4/20	Fri 4/10/19	Tue 14/4/20	0 days	2	211	100%	
174	SUBA-09020		Prepare and submit and approve the Method Statement of Erection of the protective fencing			26 days	Mon 16/9/19	Fri 11/10/19	Mon 16/9/19	Fri 11/10/19	0 days	2	211	100%	
175	SUBA-09030		Prepare and submit and approve the Method Statement of Tree felling, Preservation, Prunning works & Transplanting			74 days	Fri 11/10/19	Mon 23/12/19	Fri 11/10/19	Mon 23/12/19	0 days	2	211,256	100%	
176	SUBA-09040		Submit Yearly Tree Risk Assessment and Inspection Report			1590 days	Mon 16/9/19	Mon 22/1/24	Mon 16/9/19	NA	0 days	2		43%	
177	SUBA-10000		**Others**			**1138 days**	**Fri 20/9/19**	**Mon 31/10/22**	**Fri 20/9/19**	**NA**	**0 days**			**64%**	
178	SUBA-10010		Approval for Lighting Removal at Portion C-1A of the Site from Hyd			114 days	Thu 26/9/19	Fri 17/1/20	Thu 26/9/19	Fri 17/1/20	0 days	2	224	100%	
179	SUBA-10020		Prepare, submit & approve for commencement of Works near MTRCL protection zone at Sun Wan Road from MTRCL			43 days	Fri 20/9/19	Fri 1/11/19	Fri 20/9/19	Fri 1/11/19	0 days	2	535	100%	
180	SUBA-10030		Prepare, submit & approve for commencement Works along the riverbank by DSD			90 days	Wed 3/8/22	Mon 31/10/22	NA	NA	0 days		522,523,525,524	0%	
181	**SUBP-00000**		**Procurement**			**630 days**	**Mon 16/9/19**	**Sun 6/6/21**	**Mon 16/9/19**	**Sun 6/6/21**	**0 days**			**100%**	
182	SUBP-01000		Prepare and submit the Procurement Procedure			34 days	Mon 16/9/19	Sat 19/10/19	Mon 16/9/19	Sat 19/10/19	0 days	2	183	100%	
183	SUBP-02000		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	182	184,201,205,206,	100%	
184	SUBP-03000		**Pipe works material**			**480 days**	**Fri 8/11/19**	**Mon 1/3/21**	**Fri 8/11/19**	**Mon 1/3/21**	**0 days**	**183**		**100%**	
185	SUBP-03010		Prepare & submit concrete pipe material particular			199 days	Tue 12/11/19	Thu 28/5/20	Tue 12/11/19	Thu 28/5/20	0 days	2	186	100%	
186	SUBP-03020		Approval of concrete pipe material			205 days	Thu 28/5/20	Sat 19/12/20	Thu 28/5/20	Sat 19/12/20	0 days	185	187	100%	
187	SUBP-03030		Procurement, deliver & testing of concrete pipe material (1st batch)			0 days	Fri 8/11/19	Mon 25/11/19	Fri 8/11/19	Mon 25/11/19	0 days	186	442,443	100%	
188	SUBP-03040		Procurement, deliver & testing of concrete pipe material (remaining)			285 days	Mon 16/12/19	Mon 1/3/21	Mon 16/12/19	Mon 1/3/21	0 days		479	100%	
189	SUBP-03050		Prepare & submit ductile iron pipe material particular			90 days	Thu 19/12/19	Tue 17/3/20	Thu 19/12/19	Tue 17/3/20	0 days	2	190	100%	
190	SUBP-03060		Approval of ductile iron pipe material			28 days	Tue 17/3/20	Tue 14/4/20	Tue 17/3/20	Tue 14/4/20	0 days	189	191	100%	
191	SUBP-03070		Procurement, deliver & testing of ductile iorn pipe material			0 days	Wed 18/12/19	Tue 21/1/20	Wed 18/12/19	Tue 21/1/20	0 days	190	481	100%	
192	SUBP-03080		Prepare & submit HDPE pipe material particular			127 days	Tue 21/1/20	Tue 26/5/20	Tue 21/1/20	Tue 26/5/20	0 days	2FS+120 days	193	100%	
193	SUBP-03090		Approval of HDPE pipe material			21 days	Tue 26/5/20	Tue 16/6/20	Tue 26/5/20	Tue 16/6/20	0 days	192	194	100%	
194	SUBP-03100		Procurement, deliver & testing of HDPE pipe material			0 days	Fri 8/5/20	Mon 8/6/20	Fri 8/5/20	Mon 8/6/20	0 days	193	480,481	100%	
195	SUBP-03110		Prepare & submit stainless steel pipe material particular			8 days	Fri 1/5/20	Fri 8/5/20	Fri 1/5/20	Fri 8/5/20	0 days	2	196	100%	
196	SUBP-03120		Approval of stainless steel pipe material			21 days	Sat 9/5/20	Wed 5/8/20	Sat 9/5/20	Wed 5/8/20	0 days	195	197	100%	
197	SUBP-03130		Procurement, deliver & testing of stainless steel pipe material			90 days	Wed 5/8/20	Tue 3/11/20	Wed 5/8/20	Tue 3/11/20	0 days	196	478	100%	
198	SUBP-03140		Prepare & submit mild steel steel pipe material particular			1 day	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	0 days	2	199	100%	
199	SUBP-03150		Approval of mild steel pipe material			30 days	Thu 19/12/19	Sat 18/1/20	Thu 19/12/19	Sat 18/1/20	0 days	198	200	100%	
200	SUBP-03160		Procurement, deliver & testing of mild steel pipe material			133 days	Mon 9/12/19	Sat 30/5/20	Mon 9/12/19	Sat 30/5/20	0 days	199	478	100%	
201	SUBP-04000		**Prefabricated steel reinforcement**			**292.61 days**	**Wed 16/10/19**	**Mon 3/8/20**	**Wed 16/10/19**	**Mon 3/8/20**	**0 days**	**183**		**100%**	
202	SUBP-04010		Prepare & submit steel reinforcement material particular			21 days	Wed 16/10/19	Sat 1/8/20	Wed 16/10/19	Sat 1/8/20	0 days	2FS+60 days	203	100%	
203	SUBP-04020		Approval of prefabricated steel reinforcement material supplier			60 days	Fri 6/12/19	Sat 1/8/20	Fri 6/12/19	Sat 1/8/20	0 days	202	204	100%	
204	SUBP-04030		Procurement, deliver & testing of prefabricated steel reinforcement material			180 days	Tue 4/2/20	Mon 3/8/20	Tue 4/2/20	Mon 3/8/20	0 days	203	544,401,389,383,	100%	
205	SUBP-05000		Prepare, submit and approve the water proofing material			11 days	Fri 5/6/20	Mon 15/6/20	Fri 5/6/20	Mon 15/6/20	0 days	183	290,309,544,330	100%	
206	SUBP-06000		Prepare, submit and approve the concrete mix			180 days	Fri 6/12/19	Tue 2/6/20	Fri 6/12/19	Tue 2/6/20	0 days	183	290,309,544,330	100%	
207	SUBP-07000		Prepare, submit and approve the metal works material			20 days	Wed 28/4/21	Mon 17/5/21	Wed 28/4/21	Mon 17/5/21	0 days	183	208	100%	
208	SUBP-08000		Prepare, submit and approve the ABWF works material			20 days	Tue 18/5/21	Sun 6/6/21	Tue 18/5/21	Sun 6/6/21	0 days	207,183	251,275,297,317,	100%	
209	**CPW-00000**		**Site Preliminary Works**			**300 days**	**Mon 16/9/19**	**Thu 17/9/20**	**Mon 16/9/19**	**Thu 17/9/20**	**0 days**			**100%**	
210	CPW-01000		Mobilization for Hoarding			5 days	Thu 21/11/19	Tue 26/11/19	Thu 21/11/19	Tue 26/11/19	0 days	2	211	100%	
211	CPW-02000		Hoarding Erection at Portion C			0 days	Wed 27/11/19	Sat 29/2/20	Wed 27/11/19	Sat 29/2/20	0 days	210,173,174,175,212,130		100%	
212	CPW-03000		Project Signboard Erection			11 days	Sun 15/12/19	Mon 30/12/19	Sun 15/12/19	Mon 30/12/19	0 days	183	211	100%	
213	CPW-04000		Utility applications and Connection			87 days	Mon 16/9/19	Mon 30/12/19	Mon 16/9/19	Mon 30/12/19	0 days	2	214FF	100%	
214	CPW-05000		Construction of Site Accommodation in Works Area (MIC)			50 days	Wed 22/7/20	Thu 17/9/20	Wed 22/7/20	Thu 17/9/20	0 days	144,213FF,126		100%	
215	**CWPC-00000**	*	**Construction Works of Portion C of the Site**			**1520 days**	**Mon 16/9/19**	**Sat 9/11/24**	**Mon 16/9/19**	**NA**	**0 days**			**24%**	
216	**CUV1-00000**	*	**UV System No. 1 & Effluent Pumping Station No. 1 (1)**			**809 days**	**Mon 16/9/19**	**Sat 11/6/22**	**Mon 16/9/19**	**NA**	**459 days**			**74%**	
217	CUV1-01000		**Preliminary Works**			**114 days**	**Mon 16/9/19**	**Tue 4/2/20**	**Mon 16/9/19**	**Tue 4/2/20**	**0 days**			**100%**	
227	CUV1-02000		Sheetpile Installation (FSP IV, 2200sq.m, 1 Rig)- stage 1	17, 21	23	97 days	Sat 4/1/20	Wed 6/5/20	Sat 4/1/20	Wed 6/5/20	0 days	226	229,231	100%	6.5,2.5,8
228	CUV1-03000		Setting up plant for pre-bored socked H-pile Installation			0 days	Mon 4/5/20	Thu 7/5/20	Mon 4/5/20	Thu 7/5/20	0 days	226,229SS-5 days		100%	
229	CUV1-04000		Pre-bored Socketed H-Pile Installation (34 Nos, 1 Rig, 3days/rig/pile)	22, 33, 45	23, 24/27, 26, (10)	57 days	Thu 7/5/20	Tue 14/7/20	Thu 7/5/20	Tue 14/7/20	0 days	128,445,227	230,338,228SS-5	100%	40
230	CUV1-05000		Pile Loading Test	45, 46		26 days	Wed 15/7/20	Thu 13/8/20	Wed 15/7/20	Thu 13/8/20	0 days	229,326FS+5 days	359FS+5 days,23	100%	
231	CUV1-06000		Sheetpile Installation (FSP IV, 2200sq.m, 1 Rig)- stage 2	46, 257	26	22 days	Fri 14/8/20	Tue 8/9/20	Fri 14/8/20	Tue 8/9/20	0 days	230,227	232FS-10 days	100%	17
232	CUV1-07000		ELS Works (incl. Strut (4-layers) Installation & Excavation (3,700 cu.m)	46, 257, 258, 333	26, (34)	48 days	Fri 28/8/20	Sat 24/10/20	Fri 28/8/20	Sat 24/10/20	0 days	145,131,130,231FS-10 day	233,234FF-2 emc	100%	8
233	CUV1-08000		Additional Sump Pits	258, (92), (112)	(77)	70 days	Mon 26/10/20	Tue 19/1/21	Mon 26/10/20	Tue 19/1/21	0 days	232	237	100%	15,2
234	CUV1-08900		Receiving of Civil Requirements from PM			1 day	Tue 25/8/20	Tue 25/8/20	NA	NA	0 days	232FF-2 emons	235SS-2 emons	0%	
235	CUV1-09000		**R.C. Structure (370sq.m) (CE no. 26)**		**288**	**142 days**	**Mon 16/11/20**	**Wed 12/5/21**	**Mon 16/11/20**	**Wed 12/5/21**	**0 days**	**132,234SS-2 emons**		**100%**	
236	CUV1-09010		**Below Ground Level Stage no.1 @ -1.10mPD**			**54 days**	**Mon 16/11/20**	**Wed 20/1/21**	**Mon 16/11/20**	**Wed 20/1/21**	**0 days**			**100%**	**5**
237	CUV1-09011		Base slab Construction (162 sq.m)	(92)	24/27, 224, (38), (46), (64), (72), (115), (161)	15 days	Mon 16/11/20	Wed 2/12/20	Mon 16/11/20	Wed 2/12/20	0 days	233	238	100%	
238	CUV1-09012		Walls and Slabs Construction @-1.10mPD to +2.50mPD [CHAX puddle (DN 1200 -> DN1600)	(112)	(38), (46), (100)	39 days	Thu 3/12/20	Wed 20/1/21	Thu 3/12/20	Wed 20/1/21	0 days	237,134	240SS+30 days	100%	
239	CUV1-09020		**Below Ground Level Stage no.2 @ +1.50mPD**			**42 days**	**Mon 11/1/21**	**Wed 3/3/21**	**Mon 11/1/21**	**Wed 3/3/21**	**0 days**			**100%**	**5**
240	CUV1-09021		Base slab Construction (170sq.m)		(114), (115)	15 days	Mon 11/1/21	Wed 27/1/21	Mon 11/1/21	Wed 27/1/21	0 days	238SS+30 days	241	100%	
241	CUV1-09022		Walls and Slabs Construction @+1.5mPD to +4.9mPD [Additional CHA & CHL puddle (DN350), Additional CHLA puddle (DN150)	268	(38), (46), (100), (108), (114), (115), (159)	27 days	Thu 28/1/21	Wed 3/3/21	Thu 28/1/21	Wed 3/3/21	0 days	240,134	243SS+14 days,446	100%	33
242	CUV1-09030		**Below Ground Level Stage no.3 @ +3.80mPD**			**44 days**	**Mon 25/1/21**	**Fri 19/3/21**	**Mon 25/1/21**	**Fri 19/3/21**	**0 days**			**100%**	**5**
243	CUV1-09031		Base slab Construction (15 sq.m + 40 sq.m) (NCE no. 0083,114)		(115)	25.25 days	Mon 25/1/21	Fri 26/2/21	Mon 25/1/21	Fri 26/2/21	0 days	241SS+14 days	244	100%	14
244	CUV1-09032		Walls and Slabs Construction @+3.80mPD to +7.4mPD [CHAW puddle (DN1200-> DN1400), CHBA puddle (DN300), CHAY puddle (DN700 -> DN800)	268, 338	(38), (46), (100), (108), (115), (120), (130), (148), (163), (168), 336	21 days	Sat 6/2/21	Fri 5/3/21	Sat 6/2/21	Fri 5/3/21	0 days	134,243	245,247	100%	21
245	CUV1-09033		Extraction of Sheetpiles	338		12 days	Sat 6/3/21	Fri 19/3/21	Sat 6/3/21	Fri 19/3/21	0 days	244		100%	
246	CUV1-09040		**Above Ground Level @ +7.4mPD**			**41 days**	**Sat 20/3/21**	**Wed 12/5/21**	**Sat 20/3/21**	**Wed 12/5/21**	**0 days**			**100%**	**4**
247	CUV1-09041	KD1A	Walls, Slabs and staircase Construction @+7.4mPD to 16.4mPD [Additional SP1-3 puddle (DN100 x 2 & DN80)	(204),(228)	(108), (146), (148), (179), (182)	41 days	Sat 20/3/21	Wed 12/5/21	Sat 20/3/21	Wed 12/5/21	0 days	244	250,251,249	100%	
248	CUV1-10000	KD1A	Construction of Switch room	(204),(228)		51 days	Tue 23/3/21	Wed 12/5/21	Tue 23/3/21	Wed 12/5/21	0 days			100%	
249	CUV1-10900		Additional slab and beam for external staircase		288	26 days	Mon 12/4/21	Wed 12/5/21	Mon 12/4/21	Wed 12/5/21	0 days	247	483	100%	
250	CUV1-11000	**KD1A**	**Allow access to Contarctor DE/2018/03 for E&M Installation**			**1 day**	**Wed 12/5/21**	**Wed 12/5/21**	**Wed 12/5/21**	**Wed 12/5/21**	**0 days**	**247**	**36FF**	**100%**	
251	CUV1-12000	SW1	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining		(95)	120 days	Mon 7/6/21	Fri 29/10/21	Mon 7/6/21	NA	-17 days	208,135,247	252,44FF,519,52(	38%	
252	CUV1-13000	SW5	Surrounding Site formation works and road works			180 days	Sat 30/10/21	Sat 11/6/22	NA	NA	459 days	251	48FF	0%	
253	**CSDC-00000**	*	**Sludge Digesters and Distribution Chamber (4)**			**1040 days**	**Sat 7/12/19**	**Thu 15/6/23**	**Sat 7/12/19**	**NA**	**159 days**			**40%**	
254	CSDC-01000		Site Clearance & Site Set Up			6 days	Sat 7/12/19	Fri 13/12/19	Sat 7/12/19	Fri 13/12/19	0 days	255SF		100%	
255	CSDC-02000		Trial Pit Excavation & UU Detection Works			6 days	Sat 14/12/19	Fri 20/12/19	Sat 14/12/19	Fri 20/12/19	0 days	257SF	254SF	100%	



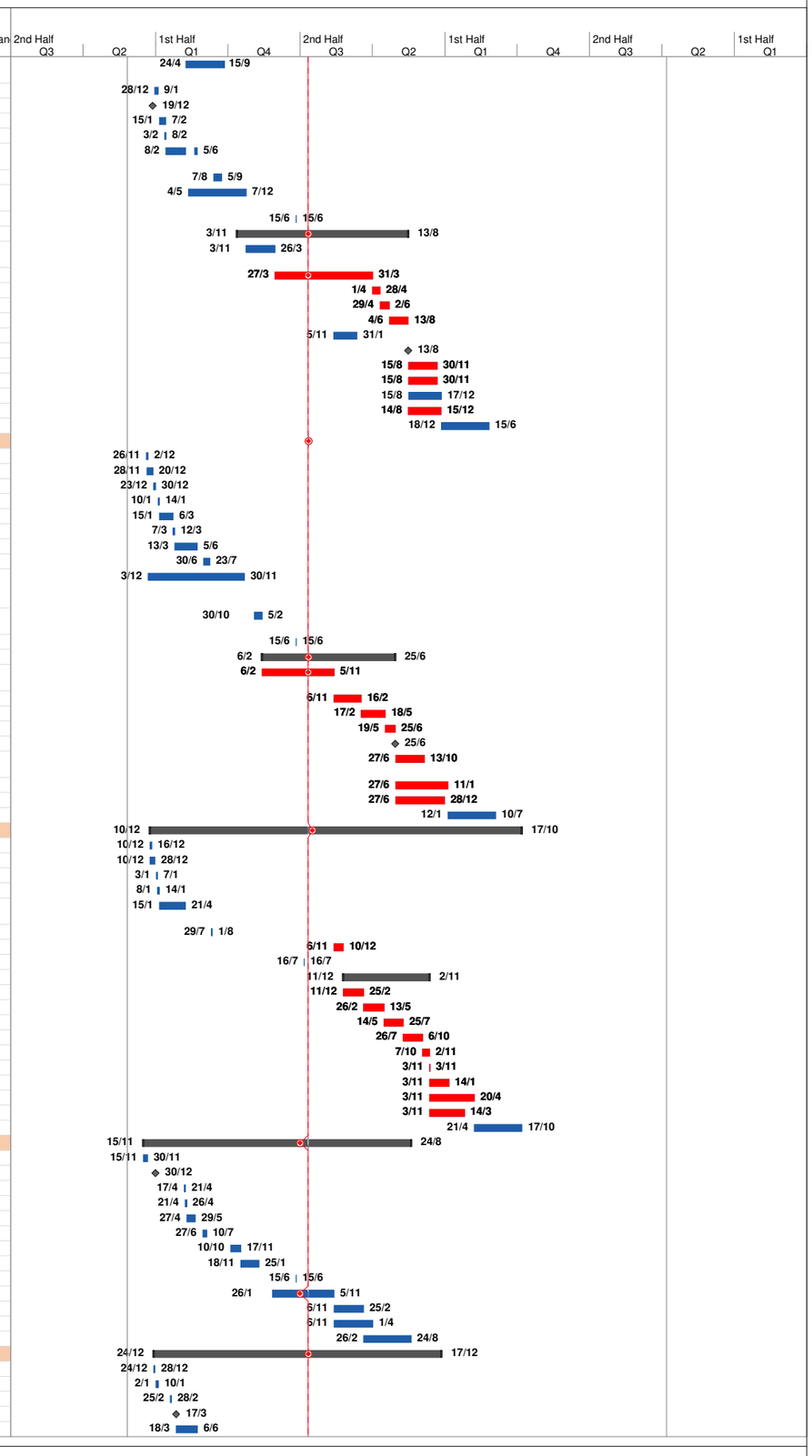
Critical Split · · · · · · · · · · · · · · · · Task ▬▬ Milestone ◆ Summary ▬▬ Critical ▬▬

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

Updated Programme (Status Date: 31/07/2021)

群利－俊和聯營體
KL－CW JV

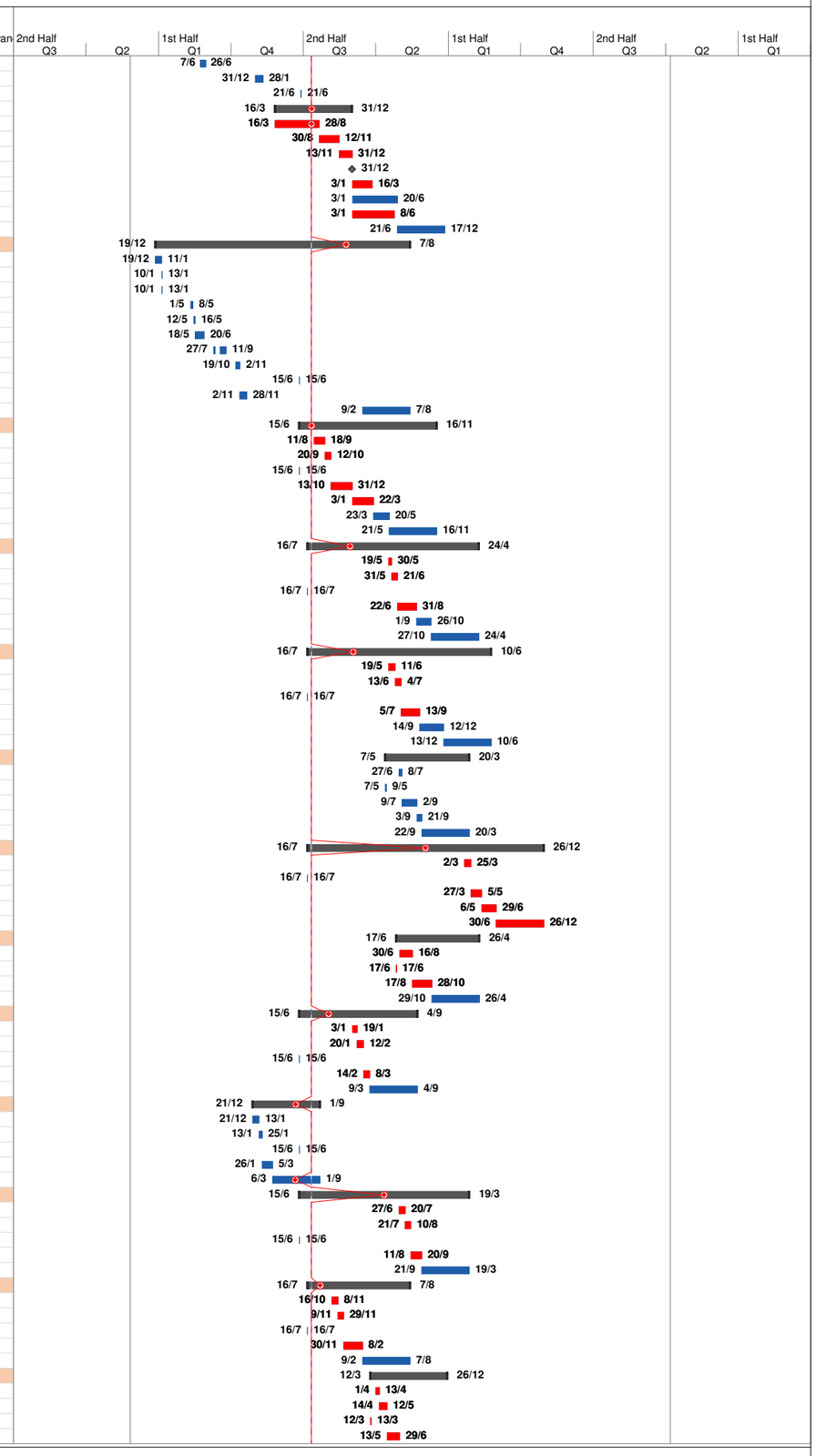
ID	Activity ID	KD	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors	Successors	% Comple	Time Risk Allowan
256	CSDC-03000		Tree Transplanting Works (TC080)	21, 22, 33, 45, 46, 257, 333	(50), (51)	120 days	Fri 24/4/20	Tue 15/9/20	Fri 24/4/20	Tue 15/9/20	0 days	175	266FS-8 days	100%	
257	CSDC-04000		Predrilling Works (50no., 4rig, 3 days/drillhole/rig)		(10)	10 days	Sat 28/12/19	Thu 9/1/20	Sat 28/12/19	Thu 9/1/20	0 days	127,143,154,155,156,158,	1258,255SF,263	100%	
258	CSDC-05000		Installation of Monitoring Points			0 days	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	0 days	257	261	100%	
259	CSDC-06000		Sheetpile Installation- stage 1			24 days	Wed 15/1/20	Fri 7/2/20	Wed 15/1/20	Fri 7/2/20	0 days			100%	
260	CSDC-07000		Setting up plant for pre-bored socked H-pile Installation			6 days	Mon 3/2/20	Sat 8/2/20	Mon 3/2/20	Sat 8/2/20	0 days		261	100%	
261	CSDC-08000		Pre-bored Sockedted H-Pile Installation (127nos, 3rig, 3days/rig/pile) (NCE no. 18A,25)	17, 21, 22, 33	(10)	69 days	Sat 8/2/20	Fri 5/6/20	Sat 8/2/20	Fri 5/6/20	0 days	128,258,263SS+20 days,260	262	100%	6
262	CSDC-09000		Pile Loading Test	46, 257, 333		26 days	Fri 7/8/20	Sat 5/9/20	Fri 7/8/20	Sat 5/9/20	0 days	261,359SS+10 days	266	100%	
263	CSDC-10000		Sheetpile Installation- stage 2 (NCE no. 24 40)	22, 33, 45, 46, 257, 333, 258, (92), (112)	(33), (47)	182 days	Mon 4/5/20	Mon 7/12/20	Mon 4/5/20	Mon 7/12/20	0 days	257	261SS+20 days,327FS+8	100%	
264	CSDC-10900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	0 days	266FF-2 emons	267SS-2 emons	100%	
265	CSDC-11000		Construction of Digestors			526 days	Tue 3/11/20	Sat 13/8/22	Tue 3/11/20	NA	-108 days		362	33%	
266	CSDC-11010		ELS Works (incl. Strut (4-layers) Installation & Excavation (17,600 cu.m)) (NCE no.92,131,165)	(112), 268, 338	(76)	88 days	Tue 3/11/20	Fri 26/3/21	Tue 3/11/20	Fri 26/3/21	0 days	145,131,262,130,256FS-8 days,263	267,264FF-2 emons	100%	2,3
267	CSDC-11020		Construction of Digesters Tank no.1,2,3,4	(204),(228)	(125)	300 days	Sat 27/3/21	Thu 31/3/22	Sat 27/3/21	NA	-198 days	266,204,134,264SS-2 emo	268,271SS+180 c	34%	30
268	CSDC-11030		Water Test			20 days	Fri 1/4/22	Thu 28/4/22	NA	NA	-192 days	267	269	0%	
269	CSDC-11040		Apply Internal Anti-corrosion Protective Lining			28 days	Fri 29/4/22	Thu 2/6/22	NA	NA	-192 days	268	270	0%	
270	CSDC-11050	KD3A	Construction of Roof Slab			60 days	Sat 4/6/22	Sat 13/8/22	NA	NA	-192 days	269	272,275,273,274,	0%	
271	CSDC-11060		Construction of Digestors & Distribution Chamber			72 days	Fri 5/11/21	Mon 31/1/22	NA	NA	4 days	267SS+180 days	478,479,480,481	0%	
272	CSDC-12000	KD3A	**Allow access to Contarctor DE/2018/03 for E&M Installation**			**0 days**	**Sat 13/8/22**	**Sat 13/8/22**	**NA**	**NA**	**-192 days**	**270**	**38FF**	**0%**	
273	CSDC-13000		Drainage System (within Bldg/ Structure) Installation			90 days	Mon 15/8/22	Wed 30/11/22	NA	NA	0 days	270		0%	
274	CSDC-14000		FRP Walkway & Miscellanous Installation			90 days	Mon 15/8/22	Wed 30/11/22	NA	NA	0 days	270		0%	
275	CSDC-15000	SW3	ABWF Works & BS Works		(173)	105 days	Mon 15/8/22	Sat 17/12/22	NA	NA	9 days	208,135,270	277	0%	
276	CSDC-15500	SW4	Surrounding sewerage, utility and process pipe works			124 days	Sun 14/8/22	Thu 15/12/22	NA	NA	-199 days	270	47FF,519FS-360	0%	
277	CSDC-16000	SW5	Surrounding Site formation works and road works			180 days	Sun 18/12/22	Thu 15/6/23	NA	NA	194 days	275	48FF	0%	
278	**CSDB-00000**	*	**Sludge Dewatering Building (2)**			**875 days**	**Tue 26/11/19**	**Wed 9/11/22**	**Tue 26/11/19**	**NA**	**334 days**			**43%**	
279	CSDB-01000		Site Clearance & Site Set Up			6 days	Tue 26/11/19	Mon 2/12/19	Tue 26/11/19	Mon 2/12/19	0 days	2	280	100%	
280	CSDB-02000		Predrilling Works (39no.4rig, 3days/drillhole/rig)		(10)	20 days	Thu 28/11/19	Fri 20/12/19	Thu 28/11/19	Fri 20/12/19	0 days	127,279	282,281	100%	
281	CSDB-03000		Additional Predrilling Works (11no.)			8 days	Mon 23/12/19	Mon 30/12/19	Mon 23/12/19	Mon 30/12/19	0 days	280	282	100%	
282	CSDB-04000		Installation of Monitoring Points			4 days	Fri 10/1/20	Tue 14/1/20	Fri 10/1/20	Tue 14/1/20	0 days	280,281	287FS-3 days,28	100%	
283	CSDB-05000		Sheet Pile Installation- stage1 (NCE NO. 22, PMI no.005)	17		52 days	Wed 15/1/20	Fri 6/3/20	Wed 15/1/20	Fri 6/3/20	0 days	282	285,284	100%	
284	CSDB-06000		Setting up plant for pre-bored socked H-pile Installation	17		5 days	Sat 7/3/20	Thu 12/3/20	Sat 7/3/20	Thu 12/3/20	0 days	283	285	100%	
285	CSDB-07000		Pre-bored Socketed H-Pile Installation (202 Nos, 4 Rig, 3days/rig/pile)	17, 21, 22, 33	(10)	67 days	Fri 13/3/20	Fri 5/6/20	Fri 13/3/20	Fri 5/6/20	0 days	128,284,283	324,286	100%	24
286	CSDB-08000		Pile Loading Test	33, 45		20 days	Tue 30/6/20	Thu 23/7/20	Tue 30/6/20	Thu 23/7/20	0 days	285	288	100%	
287	CSDB-09000		Sheet Pile Installation- stage2	17, 21, 22, 33, 45, 46, 257, 333, 258, (92)	(14), (24), (33), (113), (153)	295 days	Tue 3/12/19	Mon 30/11/20	Tue 3/12/19	Mon 30/11/20	0 days	282FS-3 days	288	100%	56
288	CSDB-10000		ELS Works (incl. Strut (3-layers) Installation & Excavation (25,000 cu.m))	258, (92), (112)	239, (40), (113), (153), (183)	25.5 days	Fri 30/10/20	Fri 5/2/21	Fri 30/10/20	Fri 5/2/21	0 days	145,131,286,130,287	290,291,478,479, emons	100%	10,2
289	CSDB-10900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	0 days	288FF-2 emons	290SS-2 emons	100%	
290	CSDB-11000		R.C. Structure			406 days	Sat 6/2/21	Sat 25/6/22	Sat 6/2/21	NA	-183 days	205,206,288,204,289SS-2	297,296	34%	10
291	CSDB-11010		Basement Consturction & external waterproofing works	268, 338, (204),(228)	239, (53), (110), (113), (115), (123), (183), (184)	220 days	Sat 6/2/21	Fri 5/11/21	Sat 6/2/21	NA	-257 days	288	292,307	64%	30
292	CSDB-11020		Ground Floor Construction @ +7.55mPD		(184)	82 days	Sat 6/11/21	Wed 16/2/22	NA	NA	-183 days	291	293	0%	
293	CSDB-11030		1/F Construction @ +15.3m mPD			72 days	Thu 17/2/22	Wed 18/5/22	NA	NA	-183 days	292	294,373,380	0%	
294	CSDB-11040	KD3B	Roof Construction @ +25.65mPD			32 days	Thu 19/5/22	Sat 25/6/22	NA	NA	-183 days	293	416,295,387,298,	0%	
295	CSDB-12000	KD3B	**Allow access to Contarctor DE/2018/03 for E&M Installation**			**0 days**	**Sat 25/6/22**	**Sat 25/6/22**	**NA**	**NA**	**-164 days**	**294**	**39FF**	**0%**	
296	CSDB-13000		Allow access to Contarctor DE/2018/03 for Drainage System (within Bldg/ structure) installation			90 days	Mon 27/6/22	Thu 13/10/22	NA	NA	0 days	290		0%	
297	CSDB-14000	SW3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining		(95), (173)	164 days	Mon 27/6/22	Wed 11/1/23	NA	NA	-9 days	290,208,135	299	0%	
298	CSDB-14500	SW4	Surrounding sewerage, utility and process pipe works			153 days	Mon 27/6/22	Wed 28/12/22	NA	NA	-175 days	294	47FF,519FS-367	0%	
299	CSDB-15000	SW5	Surrounding Site formation works and road works			180 days	Thu 12/1/23	Mon 10/7/23	NA	NA	169 days	297	48FF	0%	
300	**CHPB-00000**	*	**Combined Heat Power Building (3)**			**1140 days**	**Tue 10/12/19**	**Tue 17/10/23**	**Tue 10/12/19**	**NA**	**57 days**			**13%**	
301	CHPB-01000		Site Clearance & Site Set Up			6 days	Tue 10/12/19	Mon 16/12/19	Tue 10/12/19	Mon 16/12/19	0 days	2,302SF		100%	
302	CHPB-02000		Predrilling Works (15no. 2rig, 3days/drillhole/rig)		(10)	15 days	Tue 10/12/19	Sat 28/12/19	Tue 10/12/19	Sat 28/12/19	0 days	127FS+28 days	303,301SF	100%	
303	CHPB-03000		Installation of Monitoring Points			4 days	Fri 3/1/20	Tue 7/1/20	Fri 3/1/20	Tue 7/1/20	0 days	302	305	100%	
304	CHPB-04000		Setting up plant for pre-bored socked H-pile Installation			6 days	Wed 8/1/20	Tue 14/1/20	Wed 8/1/20	Tue 14/1/20	0 days		305	100%	
305	CHPB-05000		Pre-bored Socketed H-Pile Installation (50 Nos, 2 Rig 3days/rig/pile) (PMI no.005)	17, 21	(10)	77 days	Wed 15/1/20	Tue 21/4/20	Wed 15/1/20	Tue 21/4/20	0 days	128,303,304,538	306	100%	6
306	CHPB-06000		Pile Loading Test			4 days	Wed 29/7/20	Sat 1/8/20	Wed 29/7/20	Sat 1/8/20	0 days	305	307	100%	
307	CHPB-07000		Excavation for Pile Cap (2,060 cu.m)			30 days	Sat 6/11/21	Fri 10/12/21	NA	NA	-257 days	145,131,306,130,291	309,308FF-2 emc	0%	10
308	CHPB-07900		Receiving of Civil Requirements from PM			1 day	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	0 days	307FF-2 emons	309SS-2 emons	100%	
309	**CHPB-08000**	KD3C	**R.C. Structure**			**263 days**	**Sat 11/12/21**	**Wed 2/11/22**	**NA**	**NA**	**-257 days**	**205,206,133,307,204,308S**	**316,317,315**	**0%**	**10**
310	CHPB-08100		Lower Ground Floor @+7.55mPD			60 days	Sat 11/12/21	Fri 25/2/22	NA	NA	-257 days		311	0%	
311	CHPB-08200		Upper Ground Floor @13.05mPD			60 days	Sat 26/2/22	Fri 13/5/22	NA	NA	-257 days	310	312	0%	
312	CHPB-08300		First Floor @19.60mPD			60 days	Sat 14/5/22	Mon 25/7/22	NA	NA	-257 days	311	313	0%	
313	CHPB-08400		Podium @24.15mPD			60 days	Tue 26/7/22	Thu 6/10/22	NA	NA	-257 days	312	314	0%	
314	CHPB-08500		Roof @27.15mPD			23 days	Fri 7/10/22	Wed 2/11/22	NA	NA	-257 days	313	315,318,478,479,	0%	
315	CHPB-09000	KD3C	**Allow access to Contarctor DE/2018/03 for E&M Installation**			**1 day**	**Thu 3/11/22**	**Thu 3/11/22**	**NA**	**NA**	**-257 days**	**309,314**	**40FF**	**0%**	
316	CHPB-10000		Drainage System (within Bldg/ Structure) Installation			60 days	Thu 3/11/22	Sat 14/1/23	NA	NA	0 days	309		0%	
317	CHPB-11000	SW3	ABWF Works & BS Works		(95), (173)	135 days	Thu 3/11/22	Thu 20/4/23	NA	NA	-87 days	309,208,135	319,46FF	0%	
318	CHPB-11500	SW4	Surrounding sewerage, utility and process pipe works			107 days	Thu 3/11/22	Tue 14/3/23	NA	NA	-236 days	314	47FF,519FS-428	0%	
319	CHPB-12000	SW5	Surrounding Site formation works and road works			180 days	Fri 21/4/23	Tue 17/10/23	NA	NA	70 days	317	48FF	0%	
320	**CSPS-00000**	*	**Sewage Pumping Station (9)**			**821 days**	**Fri 15/11/19**	**Wed 24/8/22**	**Fri 15/11/19**	**NA**	**397 days**			**33%**	
321	CSPS-01000		Site Clearance & Site Set Up			14 days	Fri 15/11/19	Sat 30/11/19	Fri 15/11/19	Sat 30/11/19	0 days	2	322	100%	
322	CSPS-02000		Predrilling Works (4no.1rig, 3days/drillhole/rig)			0 days	Mon 2/12/19	Mon 30/12/19	Mon 2/12/19	Mon 30/12/19	0 days	127FS+14 days,321	323	100%	
323	CSPS-03000		Installation of Monitoring Points			4 days	Fri 17/4/20	Tue 21/4/20	Fri 17/4/20	Tue 21/4/20	0 days	322		100%	
324	CSPS-04000		Setting up plant for pre-bored socked H-pile Installation	25		5 days	Tue 21/4/20	Sun 26/4/20	Tue 21/4/20	Sun 26/4/20	0 days	285	325	100%	
325	CSPS-05000		Pre-bored Socketed H-Pile Installation (22 Nos, 1 Rig, 3days/rig/pile)	21, 22		27 days	Mon 27/4/20	Fri 29/5/20	Mon 27/4/20	Fri 29/5/20	0 days	128,324	326	100%	6
326	CSPS-06000		Pile Loading Test	33, 45		11 days	Sat 27/6/20	Fri 10/7/20	Sat 27/6/20	Fri 10/7/20	0 days	325,340FS+5 days	328,230FS+5 day	100%	
327	CSPS-07000		Sheet Pile Installation	258		0 days	Sat 10/10/20	Tue 17/11/20	Sat 10/10/20	Tue 17/11/20	0 days	326,263FS+8 days	328	100%	
328	CSPS-08000		ELS Works (incl. Strut (3-layers) Installation & Excavation (1,440 cu.m))	(92)		56 days	Wed 18/11/20	Mon 25/1/21	Wed 18/11/20	Mon 25/1/21	0 days	145,131,326,130,327	329FF-2 emons,3	100%	10
329	CSPS-08900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	0 days	328FF-2 emons	330SS-2 emons	100%	
330	CSPS-09000	KD3E	R.C. Structure & waterproofing works	268, 338, (204),(228	(63)	230 days	Tue 26/1/21	Fri 5/11/21	Tue 26/1/21	NA	22 days	328,133,204,205,206,329S	331,42FF,365SS-	54%	
331	CSPS-10000	SW3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining			90 days	Sat 6/11/21	Fri 25/2/22	NA	NA	251 days	208,135,134,330	333,46FF	0%	3
332	CSPS-10500	SW4	Surrounding sewerage, utility and process pipe works			120 days	Sat 6/11/21	Fri 1/4/22	NA	NA	22 days	330	47FF,519FS-148	0%	
333	CSPS-11000	SW5	Surrounding Site formation works and road works			180 days	Sat 26/2/22	Wed 24/8/22	NA	NA	489 days	331	48FF	0%	
334	**CWS2-00000**	*	**Workshop No. 2 (5)**			**884 days**	**Tue 24/12/19**	**Sat 17/12/22**	**Tue 24/12/19**	**NA**	**301 days**			**27%**	
335	CWS2-01000		Site Clearance & Site Set Up			3 days	Tue 24/12/19	Sat 28/12/19	Tue 24/12/19	Sat 28/12/19	0 days	2	336	100%	
336	CWS2-02000		Predrilling Works (10no.1rig, 3days/drillhole/rig)		16, (10)	8 days	Thu 2/1/20	Fri 10/1/20	Thu 2/1/20	Fri 10/1/20	0 days	127,335	337	100%	
337	CWS2-03000		Installation of Monitoring Points			4 days	Tue 25/2/20	Fri 28/2/20	Tue 25/2/20	Fri 28/2/20	0 days	336	339,338	100%	
338	CWS2-04000		Setting up plant for pre-bored socked H-pile Installation	17		0 days	Tue 10/3/20	Tue 17/3/20	Tue 10/3/20	Tue 17/3/20	0 days	337,229	339	100%	
339	CWS2-05000		Pre-bored Socketed H-Pile Installation (36 Nos, 2 Rig, 3days/rig/pile)	17, 21, 22, 33	(10)	64 days	Wed 18/3/20	Sat 6/6/20	Wed 18/3/20	Sat 6/6/20	0 days	128,337,338	340,358	100%	6



Critical Split · · · · · · · · · · · · · · · · Task ▬▬▬ Milestone ◆ Summary ▬▬▬ Critical ▬▬▬

Updated Programme (Status Date: 31/07/2021)

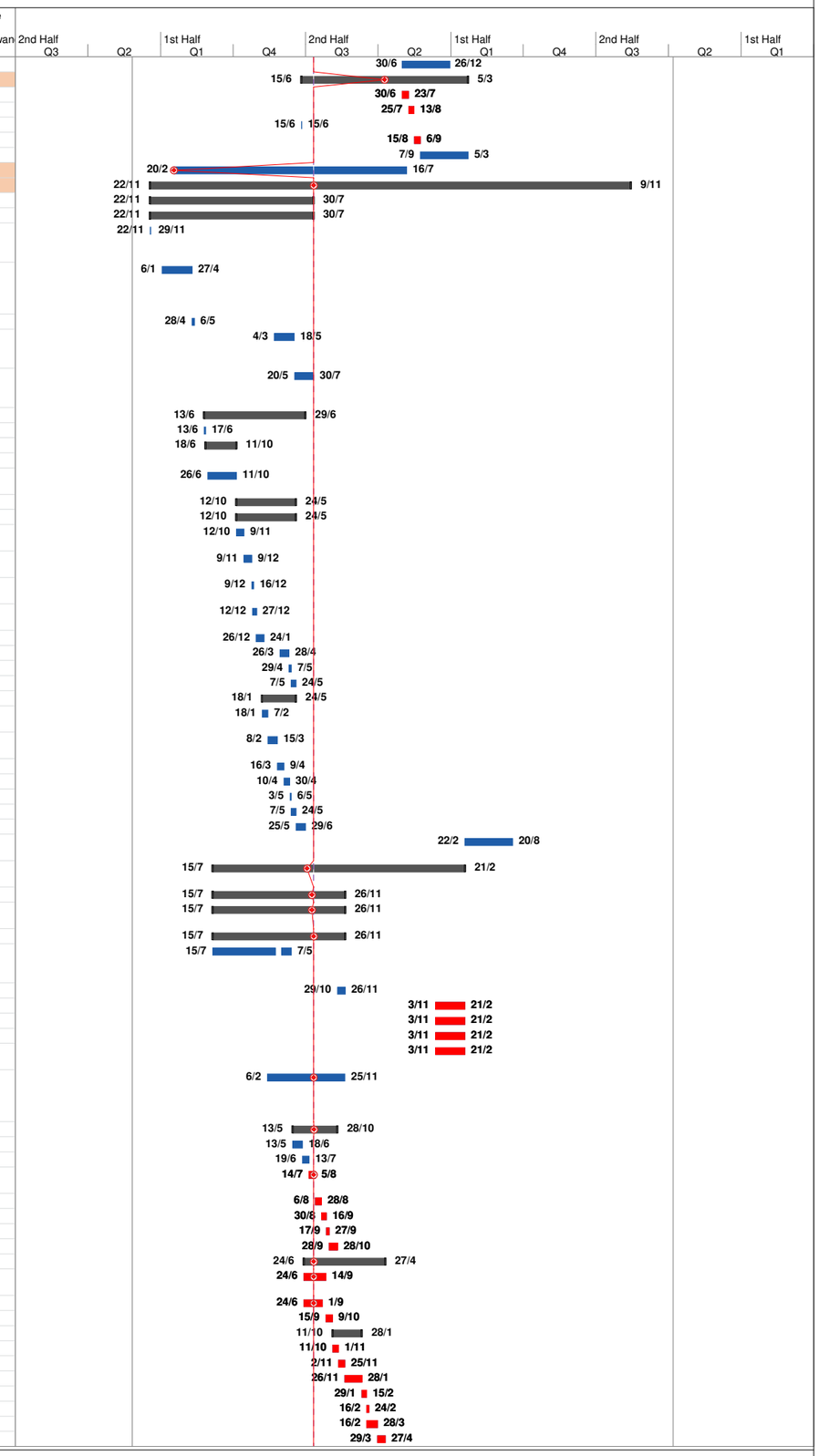
ID	Activity ID	KD	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors	Successors	% Comple	Time Risk Allowan
340	CWS2-06000		Pile Loading Test	33		16 days	Sun 7/6/20	Fri 26/6/20	Sun 7/6/20	Fri 26/6/20	0 days	339,539FS+5 days	341,326FS+5 day	100%	
341	CWS2-07000		Excavation for Pile Cap (1,800 cu.m)	268, 338	(85), (169)	24 days	Thu 31/12/20	Thu 28/1/21	Thu 31/12/20	Thu 28/1/21	0 days	145,131,340,130	344,478,479,480,	100%	56
342	CWS2-07900		Receiving of Civil Requirements from PM			1 day	Mon 21/6/21	Mon 21/6/21	Mon 21/6/21	Mon 21/6/21	0 days	341FF-2 emons	343SS-2 emons	100%	
343	CWS2-08000		**R.C. Structure**			**237 days**	**Tue 16/3/21**	**Fri 31/12/21**	**Tue 16/3/21**	**NA**	**-102 days**	**342SS-2 emons**		**47%**	**10**
344	CWS2-08010		Ground Floor Construction @ +6.30mpD	(204), (228)	(169), (185), (195), (217), (223), (229), (	135 days	Tue 16/3/21	Sat 28/8/21	Tue 16/3/21	NA	-108 days	341,204	345	82%	
345	CWS2-08020		First Floor Construction @ +13.50mpD			62 days	Mon 30/8/21	Fri 12/11/21	NA	NA	-108 days	344	346	0%	
346	CWS2-08030	KD3D	Roof Construction @+19.00mPD			40 days	Sat 13/11/21	Fri 31/12/21	NA	NA	-108 days	345	348,349,347,404,	0%	
347	CWS2-09000	**KD3D**	**Allow access to Contarctor DE/2018/03 for E&M Installation**			**0 days**	**Fri 31/12/21**	**Fri 31/12/21**	**NA**	**NA**	**-108 days**	**346**	**41FF**	**0%**	
348	CWS2-10000		Drainage System (within Bldg/ Structure) Installation			60 days	Mon 3/1/22	Wed 16/3/22	NA	NA	0 days	346		0%	
349	CWS2-11000	SW3	ABWF Works & BS Works		(95), (173)	135 days	Mon 3/1/22	Mon 20/6/22	NA	NA	160 days	208,135,346	351,46FF	0%	
350	CWS2-11500	SW4	Surrounding sewerage, utility and process pipe works			125 days	Mon 3/1/22	Wed 8/6/22	NA	NA	-7 days	346	47FF,519FS-200	0%	
351	CWS2-12000	SW5	Surrounding Site formation works and road works			180 days	Tue 21/6/22	Sat 17/12/22	NA	NA	374 days	349	48FF	0%	
352	**CTHP-00000**	*	**Thermal Hydrolysis Pretreatment (6)**			**777 days**	**Thu 19/12/19**	**Sun 7/8/22**	**Thu 19/12/19**	**NA**	**412 days**			**35%**	
353	CTHP-01000		Site Clearance & Site Set Up			18 days	Thu 19/12/19	Sat 11/1/20	Thu 19/12/19	Sat 11/1/20	0 days	2	354,355	100%	
354	CTHP-02000		Predrilling Works (3no.1rig, 3days/drillhole/rig)		21/24, (10)	1 day	Fri 10/1/20	Mon 13/1/20	Fri 10/1/20	Mon 13/1/20	0 days	127FS+24 days,353	356	100%	
355	CTHP-03000		Additional Predrilling Works (4no.)		(12)	1 day	Fri 10/1/20	Mon 13/1/20	Fri 10/1/20	Mon 13/1/20	0 days	353	356	100%	
356	CTHP-04000		Installation of Monitoring Points			6 days	Fri 1/5/20	Fri 8/5/20	Fri 1/5/20	Fri 8/5/20	0 days	354,355	358	100%	
357	CTHP-05000		Setting up plant for pre-bored socked H-pile Installation	22		5 days	Tue 12/5/20	Sat 16/5/20	Tue 12/5/20	Sat 16/5/20	0 days		358	100%	
358	CTHP-06000		Pre-bored Socketed H-Pile Installation (15 Nos, 1 Rig, 3days/rig/pile)	22, 33	(10)	30 days	Mon 18/5/20	Sat 20/6/20	Mon 18/5/20	Sat 20/6/20	0 days	128,356,357,339	359	100%	6
359	CTHP-07000		Pile Loading Test	45, 46, 257		25 days	Mon 27/7/20	Fri 11/9/20	Mon 27/7/20	Fri 11/9/20	0 days	358,230FS+5 days	360,262SS+10 da	100%	
360	CTHP-08000		Excavation for Pile Cap (160 cu.m)		225, (70), (75)	12 days	Mon 19/10/20	Mon 2/11/20	Mon 19/10/20	Mon 2/11/20	0 days	145,131,359,341	362,361FF-2 emc	100%	
361	CTHP-08900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	0 days	360FF-2 emons	362SS-2 emons	100%	
362	CTHP-09000	KD3E	R.C. Plinth	268, 338	225, (115)	0 days	Mon 2/11/20	Sat 28/11/20	Mon 2/11/20	Sat 28/11/20	0 days	360,265,361SS-2 emons	363,42FF	100%	
363	CTHP-10000	SW5	Surrounding Site formation works and road works			180 days	Wed 9/2/22	Sun 7/8/22	NA	NA	506 days	362,426SS	48FF	0%	
364	**CFCD-00000**	*	**Ferric Chloride Dosing Facilities (10)**			**425 days**	**Tue 15/6/21**	**Wed 16/11/22**	**Tue 15/6/21**	**NA**	**328 days**			**0%**	
365	CFCD-01000		Excavation & ELS for Raft Footing (105 cu.m)			34 days	Wed 11/8/21	Sat 18/9/21	NA	NA	-20 days	330SS+158 days	366	0%	
366	CFCD-02000		Plate Load Test			18 days	Mon 20/9/21	Tue 12/10/21	NA	NA	-20 days	365	368,367FF-2 emc	0%	
367	CFCD-02900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	0 days	366FF-2 emons	368SS-2 emons	100%	
368	CFCD-03000		R.C. Structure			66 days	Wed 13/10/21	Fri 31/12/21	NA	NA	-20 days	366,133,204,367SS-2 emo	369	0%	5
369	CFCD-04000	KD3E	Steel Roof Structure (On-site Fabrication)			65 days	Mon 3/1/22	Tue 22/3/22	NA	NA	-20 days	368	370,42FF	0%	
370	CFCD-05000	SW3	ABWF Works & BS Works			45 days	Wed 23/3/22	Fri 20/5/22	NA	NA	23 days	369,208,135	371,46FF,519FS-	0%	
371	CFCD-06000	SW5	Surrounding Site formation works and road works			180 days	Sat 21/5/22	Wed 16/11/22	NA	NA	405 days	370	48FF	0%	
372	**CFHB-00000**	*	**Fire Hydrant and Booster Pump Room (16)**			**525 days**	**Fri 16/7/21**	**Mon 24/4/23**	**Fri 16/7/21**	**NA**	**202 days**			**0%**	
373	CFHB-01000		Excavation for Raft Footing (160 cu.m)			10 days	Thu 19/5/22	Mon 30/5/22	NA	NA	-167 days	2,293	374	0%	
374	CFHB-02000		Plate Load Test			18 days	Tue 31/5/22	Tue 21/6/22	NA	NA	-167 days	373	376,375FF-2 emc	0%	
375	CFHB-02900		Receiving of Civil Requirements from PM			1 day	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	0 days	374FF-2 emons		100%	
376	CFHB-03000	KD3E	R.C. Structure & waterproofing works			60 days	Wed 22/6/22	Wed 31/8/22	NA	NA	-167 days	374	377,42FF,478,47	0%	5
377	CFHB-04000	SW3	ABWF Works & BS Works			45 days	Thu 1/9/22	Wed 26/10/22	NA	NA	27 days	376,208,135	378,46FF,519FS-	0%	
378	CFHB-05000	SW5	Surrounding Site formation works and road works			180 days	Thu 27/10/22	Mon 24/4/23	NA	NA	246 days	377	48FF	0%	
379	**CTFS-00000**	*	**Transformer and Switchroom (15)**			**564 days**	**Fri 16/7/21**	**Sat 10/6/23**	**Fri 16/7/21**	**NA**	**163 days**			**0%**	
380	CTFS-01000		Excavation for Raft Footing (310 cu.m)			20 days	Thu 19/5/22	Sat 11/6/22	NA	NA	-177 days	2,293	381	0%	
381	CTFS-02000		Plate Load Test			18 days	Mon 13/6/22	Mon 4/7/22	NA	NA	-177 days	380	383,382FF-2 emc	0%	
382	CTFS-02900		Receiving of Civil Requirements from PM			1 day	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	0 days	381FF-2 emons	383SS-2 emons	100%	
383	CTFS-03000	KD3E	R.C. Structure			60 days	Tue 5/7/22	Tue 13/9/22	NA	NA	-177 days	381,133,413,204,382SS-2	384,42FF,478,47	0%	5
384	CTFS-04000	SW3	ABWF Works & BS Works		(95)	75 days	Wed 14/9/22	Mon 12/12/22	NA	NA	14 days	383,208,135	385,46FF	0%	
385	CTFS-05000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/12/22	Sat 10/6/23	NA	NA	199 days	384	48FF	0%	
386	**CWMC-00000**	*	**Water Meter Cabinet (11)**		**204**	**260 days**	**Sat 7/5/22**	**Mon 20/3/23**	**NA**	**NA**	**228 days**			**0%**	
387	CWMC-01000		Excavation for Raft Footing (6 cu.m)			10 days	Mon 27/6/22	Fri 8/7/22	NA	NA	226 days	294	389,388FF-2 emc	0%	
388	CWMC-01900		Receiving of Civil Requirements from PM			1 day	Sat 7/5/22	Mon 9/5/22	NA	NA	324 days	387FF-2 emons	389SS-2 emons	0%	
389	CWMC-02000		R.C. Structure			48 days	Sat 9/7/22	Fri 2/9/22	NA	NA	226 days	133,204,387,388SS-2 emo	390	0%	3
390	CWMC-03000		ABWF Works & BS Works			15 days	Sat 3/9/22	Wed 21/9/22	NA	NA	226 days	389,208,135	391	0%	
391	CWMC-04000	SW5	Surrounding Site formation works and road works			180 days	Thu 22/9/22	Mon 20/3/23	NA	NA	281 days	390	48FF	0%	
392	**CGH-00000**	*	**Guard House (14)**			**727 days**	**Fri 16/7/21**	**Tue 26/12/23**	**Fri 16/7/21**	**NA**	**0 days**			**0%**	
393	CGH-01000		Excavation to Formation			21 days	Thu 2/3/23	Sat 25/3/23	NA	NA	0 days	2	394FF-2 emons,3	0%	
394	CGH-01900		Receiving of Civil Requirements from PM			1 day	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	0 days	393FF-2 emons	395SS-2 emons	100%	
395	CGH-02000		R.C. Structure			30 days	Mon 27/3/23	Fri 5/5/23	NA	NA	0 days	394SS-2 emons,133,393,2	396	0%	3
396	CGH-03000		ABWF Works & BS Works		(95)	45 days	Sat 6/5/23	Thu 29/6/23	NA	NA	0 days	395,208,135	397	0%	
397	CGH-04000	SW5	Surrounding Site formation works and road works			180 days	Fri 30/6/23	Tue 26/12/23	NA	NA	0 days	396	48FF	0%	
398	**CCPS-00000**	*	**THP Coolers Pumping Station (21)**			**255 days**	**Fri 17/6/22**	**Wed 26/4/23**	**NA**	**NA**	**-187 days**			**0%**	
399	CCPS-01000		Excavation & ELS (185 cu.m)			40 days	Thu 30/6/22	Tue 16/8/22	NA	NA	-198 days	431	401,400FF-2 emc	0%	
400	CCPS-01900		Receiving of Civil Requirements from PM			1 day	Fri 17/6/22	Fri 17/6/22	NA	NA	-126 days	399FF-2 emons	401SS-2 emons	0%	
401	CCPS-02000	KD3E	R.C. Structure			60 days	Wed 17/8/22	Fri 28/10/22	NA	NA	-198 days	399,133,204,400SS-2 emo	402,47FF	0%	5
402	CCPS-03000	SW5	Surrounding Site formation works and road works			180 days	Sat 29/10/22	Wed 26/4/23	NA	NA	244 days	401	48FF	0%	
403	**CWGB-00000**	*	**Waste Gas Buner (8)**			**365 days**	**Tue 15/6/21**	**Sun 4/9/22**	**Tue 15/6/21**	**NA**	**388 days**			**0%**	
404	CWGB-01000		Excavation for Raft Rooting (75cu.m)			15 days	Mon 3/1/22	Wed 19/1/22	NA	NA	-28 days	346	405	0%	
405	CWGB-02000		Plate Load Test			18 days	Thu 20/1/22	Sat 12/2/22	NA	NA	-28 days	404	407,406FF-2 emc	0%	
406	CWGB-02900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	0 days	405FF-2 emons	407SS-2 emons	100%	
407	CWGB-03000	KD3E	R.C. Plinth			20 days	Mon 14/2/22	Tue 8/3/22	NA	NA	-28 days	405,133,406SS-2 emons	437,408,42FF	0%	
408	CWGB-04000	SW5	Surrounding Site formation works and road works			180 days	Wed 9/3/22	Sun 4/9/22	NA	NA	478 days	407	48FF	0%	
409	**CPSW-00000**	*	**Plant Services Water System (20)**			**205 days**	**Mon 21/12/20**	**Wed 1/9/21**	**Mon 21/12/20**	**NA**	**686 days**			**56%**	
410	CPSW-01000		Excavation for Raft Footing (800 cu.m)		(34), (81)	18 days	Mon 21/12/20	Wed 13/1/21	Mon 21/12/20	Wed 13/1/21	0 days	2	411	100%	
411	CPSW-02000		Plate Load Test			10 days	Wed 13/1/21	Mon 25/1/21	Wed 13/1/21	Mon 25/1/21	0 days	410	413,412FF-2 emc	100%	
412	CPSW-02900		Receiving of Civil Requirements from PM		(136)	1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	0 days	411FF-2 emons	413SS-2 emons	100%	
413	CPSW-03000	KD3E	Basement Construction @+1.20mPD		(136), (117)	0 days	Tue 26/1/21	Fri 5/3/21	Tue 26/1/21	Fri 5/3/21	0 days	411,133,412SS-2 emons	383,414,42FF	100%	
414	CPSW-04000	SW5	Surrounding Site formation works and road works	338,(204), (228)		180 days	Sat 6/3/21	Wed 1/9/21	Sat 6/3/21	NA	846 days	413	48FF	48%	
415	**CDS11-00000**	*	**Deodorization System No. 11 (18)**			**524 days**	**Tue 15/6/21**	**Sun 19/3/23**	**Tue 15/6/21**	**NA**	**229 days**			**0%**	
416	CDS11-01000		Excavation for Raft Footing (1,280 cu.m)			20 days	Mon 27/6/22	Wed 20/7/22	NA	NA	-183 days	2,294	417	0%	
417	CDS11-02000		Plate Load Test			18 days	Thu 21/7/22	Wed 10/8/22	NA	NA	-183 days	416	419,418FF-2 emc	0%	
418	CDS11-02900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	0 days	417FF-2 emons	419SS-2 emons	100%	
419	CDS11-03000	KD3E	R.C. Plinth			34 days	Thu 11/8/22	Tue 20/9/22	NA	NA	-183 days	417,133,418SS-2 emons	420,42FF,478,47	0%	
420	CDS11-04000	SW5	Surrounding Site formation works and road works			180 days	Wed 21/9/22	Sun 19/3/23	NA	NA	282 days	419	48FF	0%	
421	**CBGH-00000**	*	**Biogas Holder (7)**			**315 days**	**Fri 16/7/21**	**Sun 7/8/22**	**Fri 16/7/21**	**NA**	**412 days**			**0%**	
422	CBGH-01000		Excavation for Raft Footing (1,120 cu.m)			20 days	Sat 16/10/21	Mon 8/11/21	NA	NA	0 days	2	423	0%	
423	CBGH-02000		Plate Load Test			18 days	Tue 9/11/21	Mon 29/11/21	NA	NA	0 days	422	425,424FF-2 emc	0%	
424	CBGH-02900		Receiving of Civil Requirements from PM			1 day	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	0 days	423FF-2 emons	425SS-2 emons	100%	
425	CBGH-03000	KD3E	R.C. Plinth			55 days	Tue 30/11/21	Tue 8/2/22	NA	NA	0 days	423,133,424SS-2 emons	426,42FF,478,47	0%	
426	CBGH-04000	SW5	Surrounding Site formation works and road works			180 days	Wed 9/2/22	Sun 7/8/22	NA	NA	506 days	425	48FF,363SS	0%	
427	**CH2S-00000**	*	**H2S Removal System (12)**			**236 days**	**Sat 12/3/22**	**Mon 26/12/22**	**NA**	**NA**	**-181 days**			**0%**	
428	CH2S-01000		Excavation for Raft Footing (396 cu.m)			10 days	Fri 1/4/22	Wed 13/4/22	NA	NA	-198 days	267	429	0%	
429	CH2S-02000		Plate Load Test			20 days	Thu 14/4/22	Thu 12/5/22	NA	NA	-198 days	428	431,430FF-2 emc	0%	
430	CH2S-02900		Receiving of Civil Requirements from PM			1 day	Sat 12/3/22	Sun 13/3/22	NA	NA	-102 days	429FF-2 emons	431SS-2 emons	0%	
431	CH2S-03000	KD3E	R.C. Plinth			40 days	Fri 13/5/22	Wed 29/6/22	NA	NA	-198 days	429,430SS-2 emons	432,42FF,399,43	0%	



Critical Split ..... Task Milestone ◆ Summary Critical

Updated Programme (Status Date: 31/07/2021)

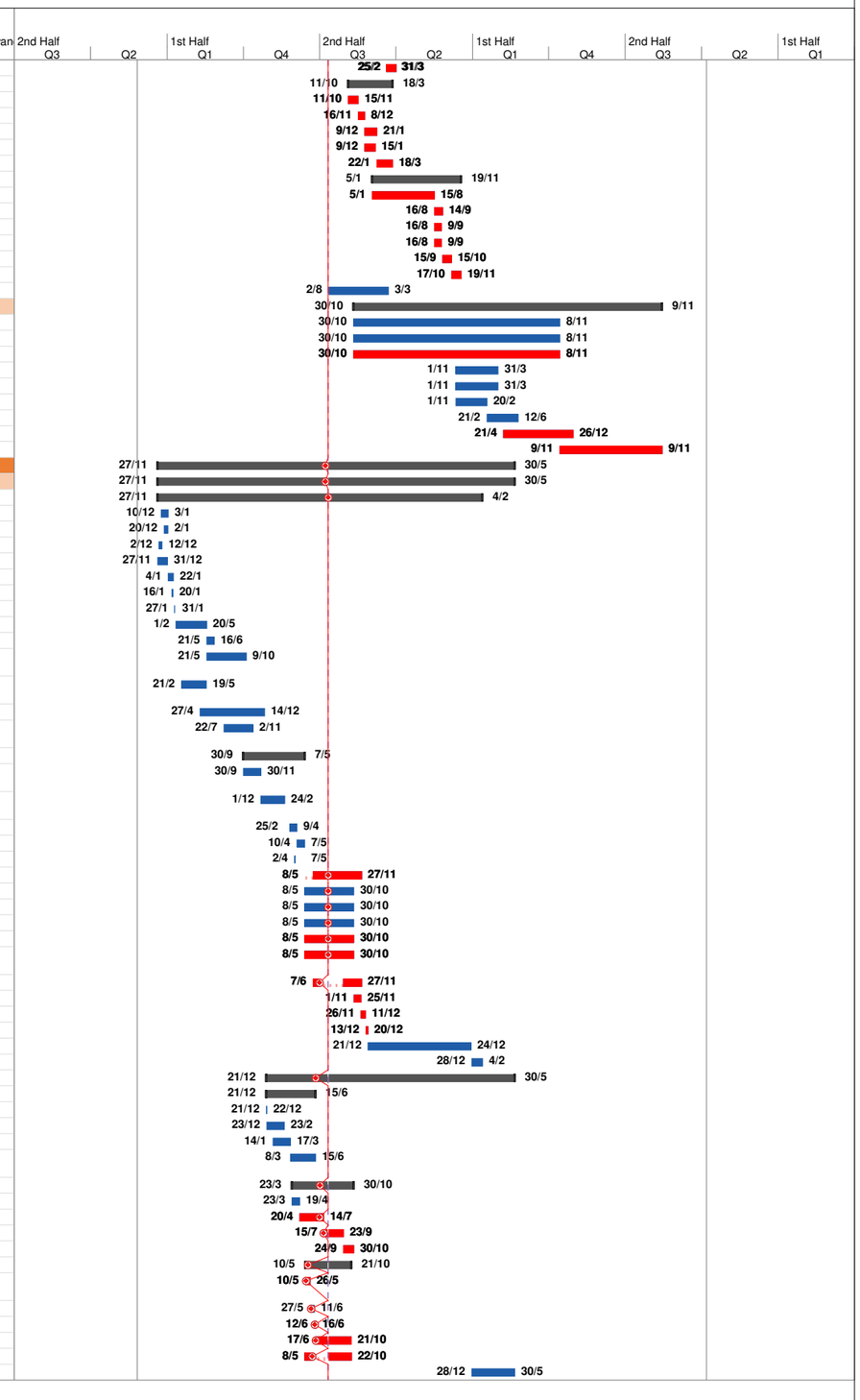
ID	Activity ID	KD	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors	Successors	% Comple	Time Risk Allowan
432	CH2S-04000	SW5	Surrounding Site formation works and road works			180 days	Thu 30/6/22	Mon 26/12/22	NA	NA	365 days	431	48FF	0%	
433	**CDS12-00000**	*	**Deodorization System No. 12 (19)**			**512 days**	**Tue 15/6/21**	**Sun 5/3/23**	**Tue 15/6/21**	**NA**	**241 days**			**0%**	
434	CDS12-01000		Excavation to Formation			20 days	Thu 30/6/22	Sat 23/7/22	NA	NA	-156 days	431	435	0%	
435	CDS12-02000		Plate Load Test			18 days	Mon 25/7/22	Sat 13/8/22	NA	NA	-156 days	434	437,436FF-2 emc	0%	
436	CDS12-02900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	0 days	435FF-2 emons	437SS-2 emons	100%	
437	CDS12-03000	KD3E	R.C. Plinth			20 days	Mon 15/8/22	Tue 6/9/22	NA	NA	-156 days	435,133,407,436SS-2 emo	438,42FF	0%	
438	CDS12-04000	SW5	Surrounding Site formation works and road works			180 days	Wed 7/9/22	Sun 5/3/23	NA	NA	296 days	437	48FF	0%	
439	CUPH-00000	SW5	Underpass & Pump House			711 days	Thu 20/2/20	Sat 16/7/22	NA	NA	197 days		47FF	0%	
440	**CPWU-00000**	*	**Pipe Works and Utility Installation**			**1464 days**	**Fri 22/11/19**	**Sat 9/11/24**	**Fri 22/11/19**	**NA**	**0 days**			**20%**	
441	CPWU-01000		**Pipe Works At Chuk Wan Street**			**498 days**	**Fri 22/11/19**	**Fri 30/7/21**	**Fri 22/11/19**	**Fri 30/7/21**	**0 days**			**100%**	
442	CPWU-01100		**Drainage Diversion (Existing Drainage Culvert)**			**498 days**	**Fri 22/11/19**	**Fri 30/7/21**	**Fri 22/11/19**	**Fri 30/7/21**	**0 days**	**224,187**		**100%**	
443	CPWU-01110		Stage 1 - Drainage Diversion of Drainage btw Reconstructed Storm Water Manhole SMH1003177A and Reconstructed Storm Water Manhole MHD33 - A			7 days	Fri 22/11/19	Fri 29/11/19	Fri 22/11/19	Fri 29/11/19	0 days	125,146,151,147,136,168,1	444	100%	
444	CPWU-01120		Stage 1 - Drainage Diversion of Drainage btw Reconstructed Storm Water Manhole SMH1003177A and Reconstructed Storm Water Manhole MHD33 - A and Additional concrete surround at MH18, MH16 and additional manhole (Type 1)	17, 21	23, 26, (8), (17), (34), (39)	90 days	Mon 6/1/20	Mon 27/4/20	Mon 6/1/20	Mon 27/4/20	0 days	443		100%	
445	CPWU-01130	KD1A	Stage 1 - Backfilling Works for Drainage Diversion			9 days	Tue 28/4/20	Wed 6/5/20	Tue 28/4/20	Wed 6/5/20	0 days		229	100%	
446	CPWU-01140	KD1A	Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng Drainage Culvert (1 Cell, 1000mm x 1150mm) within Portion C-1A & C-1B - Part 1	338, (204), (228)		60 days	Thu 4/3/21	Tue 18/5/21	Thu 4/3/21	Tue 18/5/21	0 days	241	447	100%	
447	CPWU-01150	SW1	Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng Drainage Culvert (1 Cell, 1000mm x 1150mm) outside Portion C-1A & C-1B - Part 2			60 days	Thu 20/5/21	Fri 30/7/21	Thu 20/5/21	Fri 30/7/21	0 days	446	44FF	100%	
448	CPWU-01200	**SW4**	**Trenchless Work for Pipe Installation**			**309 days**	**Sat 13/6/20**	**Tue 29/6/21**	**Sat 13/6/20**	**Tue 29/6/21**	**0 days**		**47FF**	**100%**	
449	CPWU-01210		Installation of Monitoring Points	33		4 days	Sat 13/6/20	Wed 17/6/20	Sat 13/6/20	Wed 17/6/20	0 days		451	100%	
450	CPWU-01220		**Construction of Temporary Jacking Pit**			**95 days**	**Thu 18/6/20**	**Sun 11/10/20**	**Thu 18/6/20**	**Sun 11/10/20**	**0 days**	**15,139**		**100%**	
451	CPWU-01221		Trial Pit Excavation & UU Detection Works			0 days	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20	0 days	2,449	452	100%	
452	CPWU-01222		Pit Construction (11m x 9m)	33, 45, 46, 257, 333, (69)		89 days	Fri 26/6/20	Sun 11/10/20	Fri 26/6/20	Sun 11/10/20	0 days	451	455	100%	
453	CPWU-01230		**Pipe Jacking Operation**			**180 days**	**Mon 12/10/20**	**Mon 24/5/21**	**Mon 12/10/20**	**Mon 24/5/21**	**0 days**			**100%**	
454	CPWU-01231		Twin DN900 DI pipe (CHAT & CHAU)		(26), (128)	180 days	Mon 12/10/20	Mon 24/5/21	Mon 12/10/20	Mon 24/5/21	0 days			100%	
455	CPWU-01231a		Setting Up of Entrance Ring & Gantry, and Trenchless Equipment	(69), (92)	(60)	24 days	Mon 12/10/20	Mon 9/11/20	Mon 12/10/20	Mon 9/11/20	0 days	452	456	100%	
456	CPWU-01231b		Pipe Jacking Operation for CHAT DN900 DI pipe (30m, 3m/day)	(92)		26 days	Mon 9/11/20	Wed 9/12/20	Mon 9/11/20	Wed 9/12/20	0 days	455	459,458,457	100%	6
457	CPWU-01231c		Setting Up of Entrance Ring & Gantry, and Trenchless Equipment	(112)		7 days	Wed 9/12/20	Wed 16/12/20	Wed 9/12/20	Wed 16/12/20	0 days	456	458	100%	
458	CPWU-01231d		Pipe Jacking Operation for CHAU DN900 DI pipe (30m, 3m/day)	(112)		16 days	Sat 12/12/20	Sun 27/12/20	Sat 12/12/20	Sun 27/12/20	0 days	456,457	459	100%	
459	CPWU-01231e		Installation of grouting pipe and rail			23 days	Sat 26/12/20	Sun 24/1/21	Sat 26/12/20	Sun 24/1/21	0 days	456,458	460	100%	
460	CPWU-01231f		Pipe Laying Works			25 days	Fri 26/3/21	Wed 28/4/21	Fri 26/3/21	Wed 28/4/21	0 days	459	461	100%	
461	CPWU-01231g		Formwork Erection and grouting works			7 days	Thu 29/4/21	Fri 7/5/21	Thu 29/4/21	Fri 7/5/21	0 days	460		100%	
462	CPWU-01231h		Backfilling works			14 days	Fri 7/5/21	Mon 24/5/21	Fri 7/5/21	Mon 24/5/21	0 days	469SS		100%	
463	CPWU-01232		**Pipe Jacking Operation for DN2200 MS pipe (CHAV)**			**100 days**	**Mon 18/1/21**	**Mon 24/5/21**	**Mon 18/1/21**	**Mon 24/5/21**	**0 days**			**100%**	
464	CPWU-01232a		Setting Up of Entrance Ring & Gantry, and Trenchless Equipment		(62)	18 days	Mon 18/1/21	Sun 7/2/21	Mon 18/1/21	Sun 7/2/21	0 days		465	100%	
465	CPWU-01232b		Pipe Jacking Operation for twin DN2200 DI pipe	268, 338		28 days	Mon 8/2/21	Mon 15/3/21	Mon 8/2/21	Mon 15/3/21	0 days	464	466	100%	6
466	CPWU-01232c		Installation of grouting pipe and rail	(204)		18 days	Tue 16/3/21	Fri 9/4/21	Tue 16/3/21	Fri 9/4/21	0 days	465	467	100%	
467	CPWU-01232d		Pipe Laying Works	(204)		18 days	Sat 10/4/21	Fri 30/4/21	Sat 10/4/21	Fri 30/4/21	0 days	466	468	100%	
468	CPWU-01232e		Formwork Erection and grouting works			4 days	Mon 3/5/21	Thu 6/5/21	Mon 3/5/21	Thu 6/5/21	0 days	467	470,469	100%	
469	CPWU-01232f		Backfilling works			14 days	Fri 7/5/21	Mon 24/5/21	Fri 7/5/21	Mon 24/5/21	0 days	468	470,462SS	100%	
470	CPWU-01240		Reinstatement of Temporary Launching Pit			30 days	Tue 25/5/21	Tue 29/6/21	Tue 25/5/21	Tue 29/6/21	0 days	468,469	471	100%	
471	CPWU-01020	SW5	Surrounding Site formation works and road works			180 days	Wed 22/2/23	Sun 20/8/23	NA	NA	128 days	470,478,479,480,481,482	48FF	0%	
472	CPWU-02000		**Process Pipeworks, All Sewerage, Utilities & Roadworks in Portion C of the Site**			**773 days**	**Wed 15/7/20**	**Tue 21/2/23**	**Wed 15/7/20**	**NA**	**18 days**			**66%**	
473	CPWU-02100		**Process Pipeworks**			**409 days**	**Wed 15/7/20**	**Fri 26/11/21**	**Wed 15/7/20**	**NA**	**382 days**			**90%**	
474	CPWU-02110		**Connection pipe at UV System no.1 & Effluent Pumping Stataion no.1**			**409 days**	**Wed 15/7/20**	**Fri 26/11/21**	**Wed 15/7/20**	**NA**	**382 days**			**90%**	
475	CPWU-02111	**SW1**	**Effluent Pipe(approx. 70m, dia 300-1600)**			**500 days**	**Wed 15/7/20**	**Fri 26/11/21**	**Wed 15/7/20**	**NA**	**473 days**			**90%**	
476	CPWU-02111a		Twin DN900 +DN2200 (CHAT, CHAU, CHAV) (+0.2mPD)	45, 46, 257, 333, 258, 268, 338, (92), (112), (204), (228)	(60), (62), (66),(152)	220 days	Wed 15/7/20	Fri 7/5/21	Wed 15/7/20	Fri 7/5/21	0 days	229		100%	
477	CPWU-02111c		CHAM, CHAN Pipe Laying (+2.0mPD)			25 days	Fri 29/10/21	Fri 26/11/21	NA	NA	382 days	490	47FF	0%	
478	CPWU-02120	SW4	Remaining Effluent Pipes & testing works			89 days	Thu 3/11/22	Tue 21/2/23	NA	NA	-218 days	138,288,341,197,200,271,	47FF,471	0%	
479	CPWU-02130	SW4	Stormdrain Pipeworks & testing works			89 days	Thu 3/11/22	Tue 21/2/23	NA	NA	-218 days	138,288,341,188,271,294,	47FF,471	0%	
480	CPWU-02140	SW4	Sewerage Pipeworks, manhole, protective lining & testing works		210	89 days	Thu 3/11/22	Tue 21/2/23	NA	NA	-218 days	138,288,341,194,271,294,	47FF,471	0%	
481	CPWU-02150	SW4	Watermain Pipeworks & testing works		205, 206, 207, 216, 219, 220, 221, 221-1, 222	89 days	Thu 3/11/22	Tue 21/2/23	NA	NA	-218 days	138,288,341,191,194,271,	47FF,471	0%	
482	CPWU-02160	SW4	Cable & Other Underground Utility Pipeworks	17, 21, 22, 33, 45, 46, 257, 333, 258, 268, 338, (92), (112), (204), (228)		237 days	Sat 6/2/21	Thu 25/11/21	Sat 6/2/21	NA	147 days	138,288,341	471	59%	
483	**CPWU-02161**	**SW1**	**Portion C1-B, Area 1**			**139 days**	**Thu 13/5/21**	**Thu 28/10/21**	**Thu 13/5/21**	**NA**	**-16 days**	**249**	**44FF**	**47%**	
484	CPWU-02161a		Falsework removal of UV no.1 building		288, 248	30 days	Thu 13/5/21	Fri 18/6/21	Thu 13/5/21	Fri 18/6/21	0 days		485	100%	
485	CPWU-02161b		Fence Wall (25m) - Footing		248	20 days	Sat 19/6/21	Tue 13/7/21	Sat 19/6/21	Tue 13/7/21	0 days	484	486	100%	
486	CPWU-02161c		Sewage & Drainage system & Concrete Pipe between MHD26 and SMH1003177A (+3.6mPD)			20 days	Wed 14/7/21	Thu 5/8/21	Wed 14/7/21	NA	-16 days	485	487	80%	
487	CPWU-02161d		Process pipe DN800 (CHAY)			20 days	Fri 6/8/21	Sat 28/8/21	NA	NA	-16 days	486	488	0%	
488	CPWU-02161e		Fence wall (25m) - Wall			16 days	Mon 30/8/21	Thu 16/9/21	NA	NA	-16 days	487	489	0%	
489	CPWU-02161f		Irrigation System		218	8 days	Fri 17/9/21	Mon 27/9/21	NA	NA	-16 days	488	490	0%	
490	CPWU-02161g	SW1	Road works (footpath 25m)			25 days	Tue 28/9/21	Thu 28/10/21	NA	NA	-16 days	489	477	0%	
491	**CPWU-02162**	**SW1**	**Portion C1-1B, Area 2**			**250 days**	**Thu 24/6/21**	**Wed 27/4/22**	**Thu 24/6/21**	**NA**	**-161 days**		**44FF**	**14%**	
492	CPWU-02162a		Watermain works DN450, 350, 300, 150 & 100 (CHL, CHA, CHC, CHLA) (60m)		216, 248, 276,318, PMI	70 days	Thu 24/6/21	Tue 14/9/21	Thu 24/6/21	NA	-331 days		493SS,494	46%	
493	CPWU-02162b		AC DN150 pipe (CHR)		216, PMI	70 days	Thu 24/6/21	Wed 1/9/21	Thu 24/6/21	NA	-393 days	492SS	494	54%	
494	CPWU-02162c		Fence wall near UV no.1 (30m)			20 days	Wed 15/9/21	Sat 9/10/21	NA	NA	-331 days	493,492	495,504	0%	
495	CPWU-02162d		Area between Fence wall and UV no.1			91 days	Mon 11/10/21	Fri 28/1/22	NA	NA	-161 days	494	499	0%	
496	CPWU-02162d1		Draiange system			18 days	Mon 11/10/21	Mon 1/11/21	NA	NA	-161 days		497	0%	
497	CPWU-02162d2		Irrigation System		218	21 days	Tue 2/11/21	Thu 25/11/21	NA	NA	-161 days	496	498	0%	
498	CPWU-02162d3		Road works (footpath 30m)			52 days	Fri 26/11/21	Fri 28/1/22	NA	NA	-161 days	497		0%	
499	CPWU-02162e		Fence Wall near PSW (10m)			12 days	Sat 29/1/22	Tue 15/2/22	NA	NA	-161 days	495	500,501	0%	
500	CPWU-02162f		Gate Footing			8 days	Wed 16/2/22	Thu 24/2/22	NA	NA	-142 days	499	503	0%	
501	CPWU-02162g		Fence Wall (40m)			35 days	Wed 16/2/22	Mon 28/3/22	NA	NA	-161 days	499	502	0%	
502	CPWU-02162h		Irrigation System			22 days	Tue 29/3/22	Wed 27/4/22	NA	NA	-161 days	501		0%	



Critical Split · Task · Milestone · Summary · Critical

Updated Programme (Status Date: 31/07/2021)

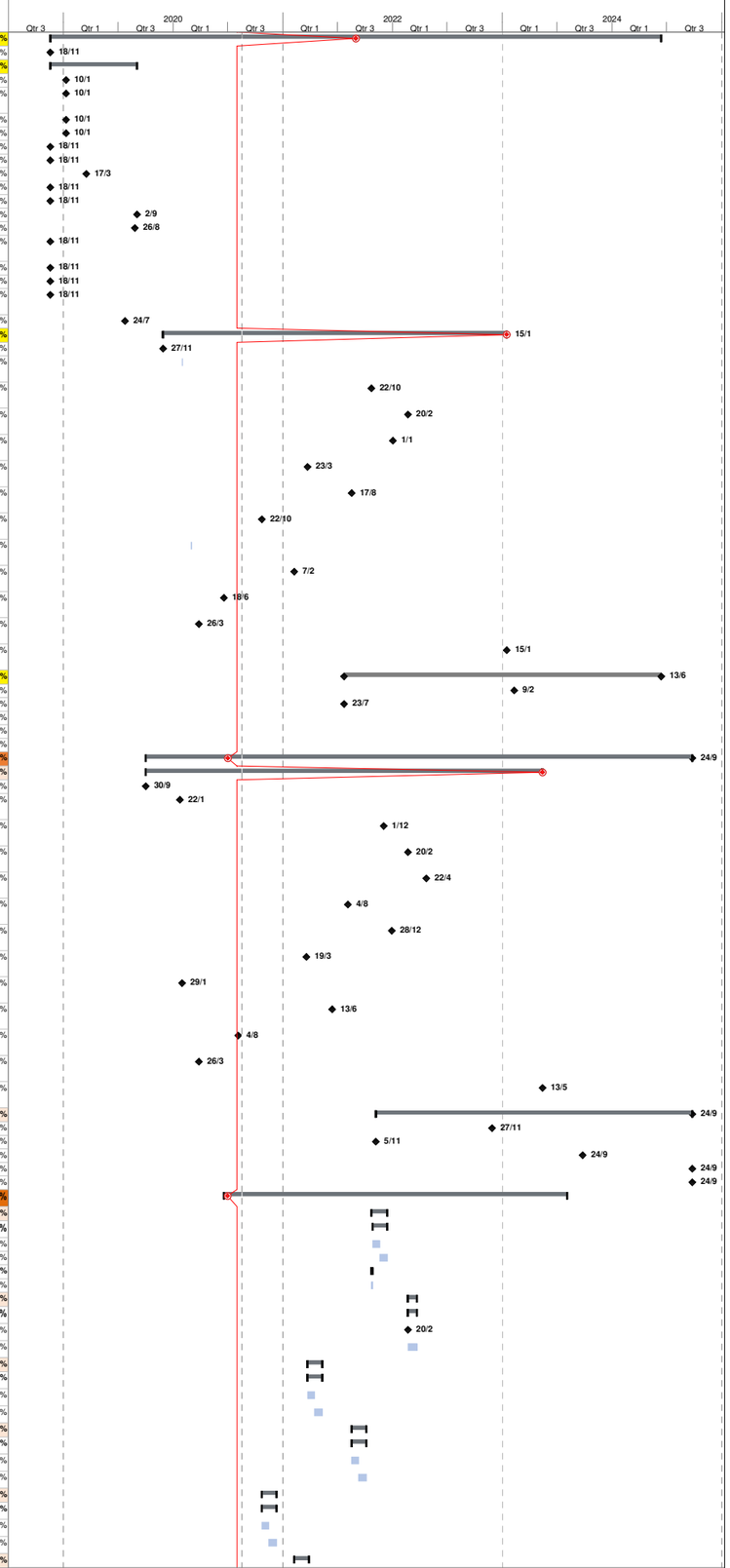
ID	Activity ID	KD	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Total Slack	Predecessors	Successors	% Comple	Time Risk Allowan
503	CPWU-02162i		Fire Hydrant		207	30 days	Fri 25/2/22	Thu 31/3/22	NA	NA	-142 days	500		0%	
504	CPWU-02162j		Area between Fence wall and SSSH			130 days	Mon 11/10/21	Fri 18/3/22	NA	NA	-331 days	494		0%	
505	CPWU-02162j0		300 Uchannel (50m)			30 days	Mon 11/10/21	Mon 15/11/21	NA	NA	-331 days		506	0%	
506	CPWU-02162j1		HyD Lightng pole and drawpits		PMI	20 days	Tue 16/11/21	Wed 8/12/21	NA	NA	-331 days	505	507,508	0%	
507	CPWU-02162j2		Road light & drawpit		PMI	35 days	Thu 9/12/21	Fri 21/1/22	NA	NA	-331 days	506	509	0%	
508	CPWU-02162j3		Cable Drawpit & ducts		PMI	30 days	Thu 9/12/21	Sat 15/1/22	NA	NA	-326 days	506	509	0%	
509	CPWU-02162j4	SW1	Road works (footpath & carriageway)			45 days	Sat 22/1/22	Fri 18/3/22	NA	NA	-331 days	508,507	511FS-60 days	0%	
510	**CPWU-02163**	**SW1**	**Portion C1-1B, Area 3**			**260 days**	**Wed 5/1/22**	**Sat 19/11/22**	**NA**	**NA**	**-331 days**		**44FF**	**0%**	
511	CPWU-02163a		Effluent Chamber		PMI	180 days	Wed 5/1/22	Mon 15/8/22	NA	NA	-331 days	509FS-60 days	512	0%	
512	CPWU-02163b		Process Pipe DN1400 (CHAW) (35m)		273	25 days	Tue 16/8/22	Wed 14/9/22	NA	NA	-331 days	511	515,513SS,514S	0%	
513	CPWU-02163c		Process Pipe DN300 (CHBA) (35m)			25 days	Tue 16/8/22	Fri 9/9/22	NA	NA	-402 days	512SS	515	0%	
514	CPWU-02163d		Process Pipe DN300 (CHAX) (10m)			25 days	Tue 16/8/22	Fri 9/9/22	NA	NA	-402 days	512SS	515	0%	
515	CPWU-02163e		Cable drawpit and ducts		PMI	25 days	Thu 15/9/22	Sat 15/10/22	NA	NA	-331 days	512,513,514	516	0%	
516	CPWU-02163f	SW1	Road Works (footpath & carriageway)			30 days	Mon 17/10/22	Sat 19/11/22	NA	NA	-331 days	515		0%	
517	CPWU-02200	SW4	Pipe Bridge No.1			175 days	Mon 2/8/21	Thu 3/3/22	NA	NA	69 days	2	47FF	0%	
518	**CRWL-00000**	*	**Remaining Works & Landscape Works**			**891 days**	**Sat 30/10/21**	**Sat 9/11/24**	**NA**	**NA**	**0 days**			**0%**	
519	CRWL-01000	SW5	Irrigation System		218	600 days	Sat 30/10/21	Wed 8/11/23	NA	NA	39 days	141,251,276FS-360 days,2	48FF	0%	
520	CRWL-02000	SW5	Hard Landscape Works			600 days	Sat 30/10/21	Wed 8/11/23	NA	NA	39 days	141,251,276FS-360 days,2	48FF	0%	
521	CRWL-03000	SW5	Soft Landscape Works			600 days	Sat 30/10/21	Wed 8/11/23	NA	NA	0 days	141,251,276FS-360 days,2	527,48FF	0%	
522	CRWL-04000	SW5	Outfall for Effluent Pipes			124 days	Tue 1/11/22	Fri 31/3/23	NA	NA	218 days	180	48FF	0%	
523	CRWL-05000	SW5	Slope Formation Works near Outfall			124 days	Tue 1/11/22	Fri 31/3/23	NA	NA	218 days	180	48FF	0%	
524	CRWL-06000	SW5	Removal of invasive trees along River Embankment		(37)	90 days	Tue 1/11/22	Mon 20/2/23	NA	NA	162 days	180	525	0%	
525	CRWL-07000	SW5	Retaining Wall along River Embankment, street furniture & road works			90 days	Tue 21/2/23	Mon 12/6/23	NA	NA	162 days	180,524	48FF	0%	
526	CRWL-08000	SW5	Remaining Site formation works, road works and boundary fence wall			250 days	Fri 21/4/23	Tue 26/12/23	NA	NA	0 days	46	48FF	0%	
527	CRWL-09000		Establishment Works (365 Calendar Days)			291 days	Thu 9/11/23	Sat 9/11/24	NA	NA	0 days	521,141		0%	
528	**CWPA-00000**	*	**Construction of Portion A of the Site**			**1035 days**	**Wed 27/11/19**	**Tue 30/5/23**	**Wed 27/11/19**	**NA**	**23 days**			**54%**	
529	**C132S-00000**	*	**132kV Substation**			**1035 days**	**Wed 27/11/19**	**Tue 30/5/23**	**Wed 27/11/19**	**NA**	**23 days**			**54%**	
530	C132SI-00000		**Internal Works**			**943 days**	**Wed 27/11/19**	**Sat 4/2/23**	**Wed 27/11/19**	**NA**	**115 days**			**58%**	
531	C132SI-01000		Site Clearance & Site Set Up			19 days	Tue 10/12/19	Fri 3/1/20	Tue 10/12/19	Fri 3/1/20	0 days	2	532	100%	
532	C132SI-02000		Additional Tree Felling Works		(29)	14 days	Fri 20/12/19	Thu 2/1/20	Fri 20/12/19	Thu 2/1/20	0 days	531	534	100%	
533	C132SI-03000		Trial Pit Excavation & UU Detection Works			0 days	Mon 2/12/19	Thu 12/12/19	Mon 2/12/19	Thu 12/12/19	0 days	2	535	100%	
534	C132SI-04000		Additional Demolition of existing structure		4, (2), (36)	28 days	Wed 27/11/19	Tue 31/12/19	Wed 27/11/19	Tue 31/12/19	0 days	532	535	100%	
535	C132SI-05000		Predrilling Works (11no., 1rig, 3days/drillhole/rig)		(10)	16 days	Sat 4/1/20	Wed 22/1/20	Sat 4/1/20	Wed 22/1/20	0 days	127,533,179,534	536	100%	
536	C132SI-06000		Installation of Monitoring Points		29/32	4 days	Thu 16/1/20	Mon 20/1/20	Thu 16/1/20	Mon 20/1/20	0 days	535	537	100%	
537	C132SI-07000		Setting up plant for pre-bored socked H-pile Installation		5, (22)	3 days	Mon 27/1/20	Fri 31/1/20	Mon 27/1/20	Fri 31/1/20	0 days	536	538	100%	
538	C132SI-08000		Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile)	17, 21, 22	39/43, (10), (19), (36)	88 days	Sat 1/2/20	Wed 20/5/20	Sat 1/2/20	Wed 20/5/20	0 days	128,537	539,305,541	100%	6
539	C132SI-09000		Pile Load Test	22, 33		23 days	Thu 21/5/20	Tue 16/6/20	Thu 21/5/20	Tue 16/6/20	0 days	538	540,340FS+5 day	100%	
540	C132SI-10000		Sheetpile Installation Stage 1	45	234, (19), (23), (36), (56), (59)	118 days	Thu 21/5/20	Fri 9/10/20	Thu 21/5/20	Fri 9/10/20	0 days	539,130	543	100%	6
541	C132SI-11000		CHP Cable Diversion Works	22, 33, 45, 46, 257, 333	31/35, (23), (137)	70 days	Fri 21/2/20	Tue 19/5/20	Fri 21/2/20	Tue 19/5/20	0 days	538		100%	
542	C132SI-12000		Watermain diversion and relocation of water meter	33, 45, 46	(15), (35), (90)	192 days	Mon 27/4/20	Mon 14/12/20	Mon 27/4/20	Mon 14/12/20	0 days	539		100%	
543	C132SI-13000		Excavation Works Stage 1	45, 46, 257, 333, 258	(16), (23), (36)	86 days	Wed 22/7/20	Mon 2/11/20	Wed 22/7/20	Mon 2/11/20	0 days	540	544	100%	8
544	C132SI-14000		R.C. Structure (880 sq.m)		(52)	175 days	Wed 30/9/20	Fri 7/5/21	Wed 30/9/20	Fri 7/5/21	0 days	205,206,133,204,543	578	100%	10
545	C132SI-14020		Basement	(92), (112)	39/43, (30), (56), (59), (86), (101) (103), (115)	50 days	Wed 30/9/20	Mon 30/11/20	Wed 30/9/20	Mon 30/11/20	0 days		546	100%	
546	C132SI-14030		Ground Floor	268	(79), (88), (91), (101), (103), (106), (115), (143)	68 days	Tue 1/12/20	Wed 24/2/21	Tue 1/12/20	Wed 24/2/21	0 days	545	547,567	100%	
547	C132SI-14040		First Floor	338	(104), (143)	19 days	Thu 25/2/21	Fri 9/4/21	Thu 25/2/21	Fri 9/4/21	0 days	546	548	100%	
548	C132SI-14050		Roof Floor (461sq.m)	(204), (228)	(105), (126), (143)	23 days	Sat 10/4/21	Fri 7/5/21	Sat 10/4/21	Fri 7/5/21	0 days	547	549	100%	
549	C132SI-14060		Parapet			26 days	Fri 2/4/21	Fri 7/5/21	Fri 2/4/21	Fri 7/5/21	0 days	548	550,556,551,554,	100%	
550	C132SI-22000		ABWF Works			145 days	Sat 8/5/21	Sat 27/11/21	Sat 8/5/21	NA	0 days	208,135,549	556FF	32%	
551	C132SI-23000		BS Works			145 days	Sat 8/5/21	Sat 30/10/21	Sat 8/5/21	NA	24 days	135,549	556FF	48%	
552	C132SI-24000		Electricial Installation (incl. MCB board, LV switchboard & cables, etc)			145 days	Sat 8/5/21	Sat 30/10/21	Sat 8/5/21	NA	24 days	549	556FF	48%	
553	C132SI-25000		Backfilling reinstatement & road works			145 days	Sat 8/5/21	Sat 30/10/21	Sat 8/5/21	NA	24 days	549	556FF	48%	
554	C132SI-26000		Installation of telephone line/ direct link for FSD Inspection			145 days	Sat 8/5/21	Sat 30/10/21	Sat 8/5/21	NA	0 days	549		48%	
555	C132SI-27000		Building Services Installation Works (incl. Fire Services, Plumbing, Drainage, etc.)			145 days	Sat 8/5/21	Sat 30/10/21	Sat 8/5/21	NA	-73 days	549	557	48%	
556	C132SI-28000		Architectual Works			75 days	Mon 7/6/21	Sat 27/11/21	Mon 7/6/21	NA	-77 days	550FF,551FF,552FF,553F	137FF	27%	
557	C132SI-29000		Testing & Commissioning of the E&M Works			22 days	Mon 1/11/21	Thu 25/11/21	NA	NA	-73 days	555	559,558	0%	
558	C132SI-30000		FSD Inspection & FS Certificate			14 days	Fri 26/11/21	Sat 11/12/21	NA	NA	-73 days	557	559,171SS-2 emc	0%	
559	C132SI-31000	KD2A	**Handover to CLP for Electrical System Installation**			7 days	Mon 13/12/21	Mon 20/12/21	NA	NA	-73 days	557,558	560,37FF	0%	
560	C132SI-32000		ABWF Works - External Finishing		(173)	300 days	Tue 21/12/21	Sat 24/12/22	NA	NA	23 days	559,208,135	561,579	0%	
561	C132SI-33000	SW2	Inspection and Handover to CLP			30 days	Wed 28/12/22	Sat 4/2/23	NA	NA	115 days	560	45FF	0%	
562	C132SE-00000		**External Works**			**718 days**	**Mon 21/12/20**	**Tue 30/5/23**	**Mon 21/12/20**	**NA**	**23 days**	**149**		**41%**	
563	C132SE-01000	KD2A	**Road Widening Works**		(20)	139 days	Mon 21/12/20	Tue 15/6/21	Mon 21/12/20	Tue 15/6/21	0 days		37FF	100%	
564	C132SE-01010		Trial Pit Excavation & UU Detection Works	(112)		2 days	Mon 21/12/20	Tue 22/12/20	Mon 21/12/20	Tue 22/12/20	0 days	152	565	100%	
565	C132SE-01020		Diversion of existing UU (i.e. 3no. Street light)	268		48 days	Wed 23/12/20	Tue 23/2/21	Wed 23/12/20	Tue 23/2/21	0 days	564		100%	
566	C132SI-17000		Dismantle existing boundary wall	268, 338	(21), (90)	63 days	Thu 14/1/21	Wed 17/3/21	Thu 14/1/21	Wed 17/3/21	0 days			100%	
567	C132SI-19000		Sheetpile Installation Stage 2	338, (204), (228)	(35), (151), (155), (166)	70 days	Mon 8/3/21	Tue 15/6/21	Mon 8/3/21	Tue 15/6/21	0 days	546		100%	
568	C132SE-02000		**Drainage & Sewerage Works**		**245**	**180 days**	**Tue 23/3/21**	**Sat 30/10/21**	**Tue 23/3/21**	**NA**	**-53 days**		**37FF**	**44%**	
569	C132SI-20000		Excavation Works Stage 2	338, (204)	(35)	20 days	Tue 23/3/21	Mon 19/4/21	Tue 23/3/21	Mon 19/4/21	0 days		570	100%	
570	C132SE-02010		Trench Excavation and ELS works	(204), (228)	(162)	70 days	Tue 20/4/21	Wed 14/7/21	Tue 20/4/21	NA	-53 days	569	571	84%	
571	C132SE-02020		Pipe Laying Works			60 days	Thu 15/7/21	Thu 23/9/21	NA	NA	-53 days	570	572	0%	
572	C132SE-02030	KD2A	Backfilling and Reinstatement Works			30 days	Fri 24/9/21	Sat 30/10/21	NA	NA	-53 days	571		0%	
573	**C132SE-02040**	**KD2A**	**CLP Cable & Other Underground Utility Pipeworks**			**136 days**	**Mon 10/5/21**	**Thu 21/10/21**	**Mon 10/5/21**	**NA**	**-45 days**		**37FF**	**6%**	
574	C132SE-02042		CLP cable diversion works within SWHSTW and along San Wan Road by others		(EWN210)(148)	14 days	Mon 10/5/21	Wed 26/5/21	Mon 10/5/21	NA	0 days		575	25%	
575	C132SE-02043		CLP cable works along & across San Wan Road			14 days	Thu 27/5/21	Fri 11/6/21	Thu 27/5/21	NA	1 day	574	576	25%	
576	C132SE-02044		CLP cable connection to LV transformer Room (by CLP)			5 days	Sat 12/6/21	Wed 16/6/21	Sat 12/6/21	NA	-56 days	575	577	25%	
577	C132SE-02050		Road Works			105 days	Thu 17/6/21	Thu 21/10/21	NA	NA	-45 days	576	37FF	0%	
578	C132SE-03000	KD2A	Construction of New Boundary Wall		(155)	90 days	Sat 8/5/21	Fri 22/10/21	Sat 8/5/21	NA	-22.5 days	544	37FF	25%	
579	**C132SE-04000**	SW2	Remaining Works after CLP Plant and Power Cables Installation			122 days	Wed 28/12/22	Tue 30/5/23	NA	NA	23 days	560	45FF	0%	



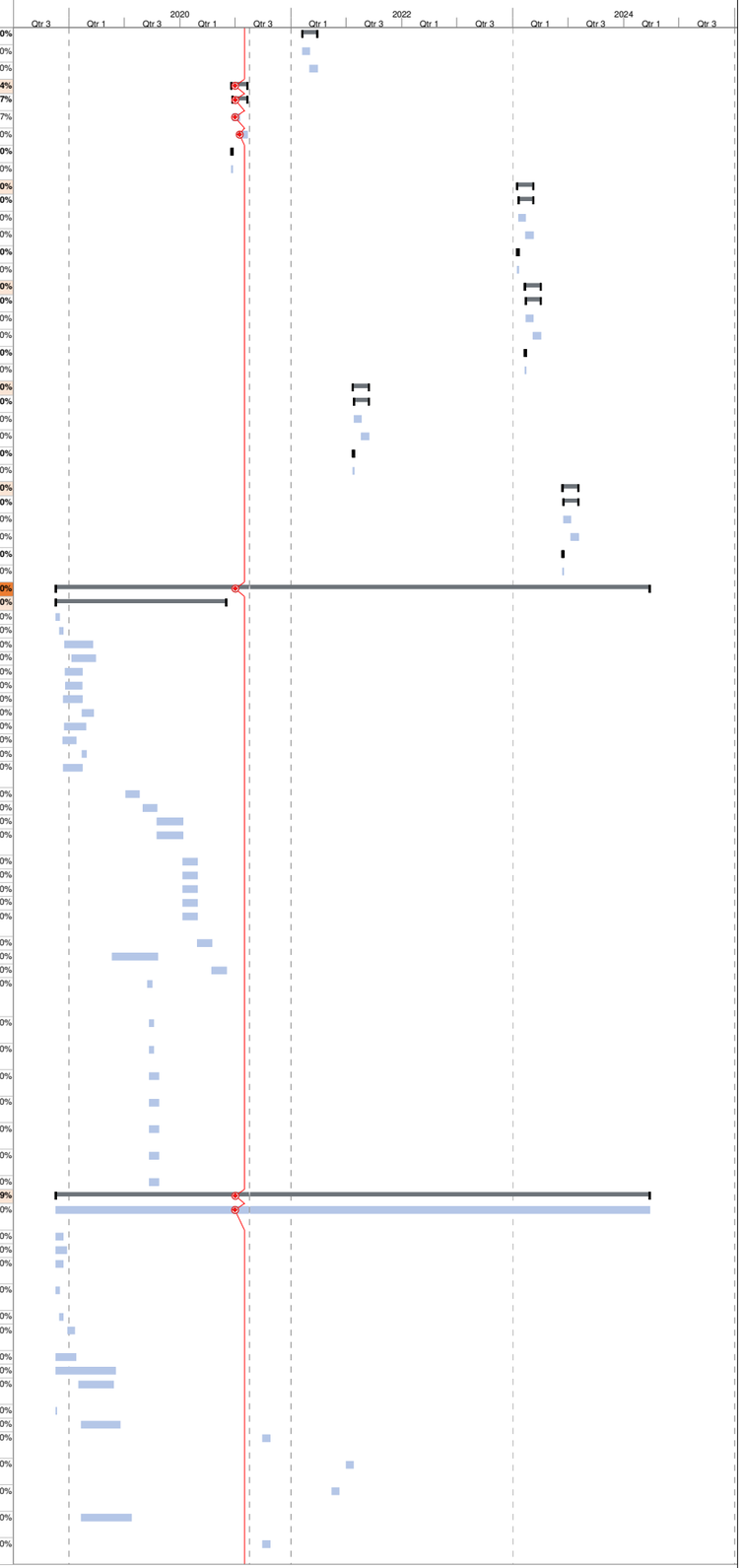
Contract No. DC/2018/07
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Revised Works Programme (Status Date: 31/07/2021)

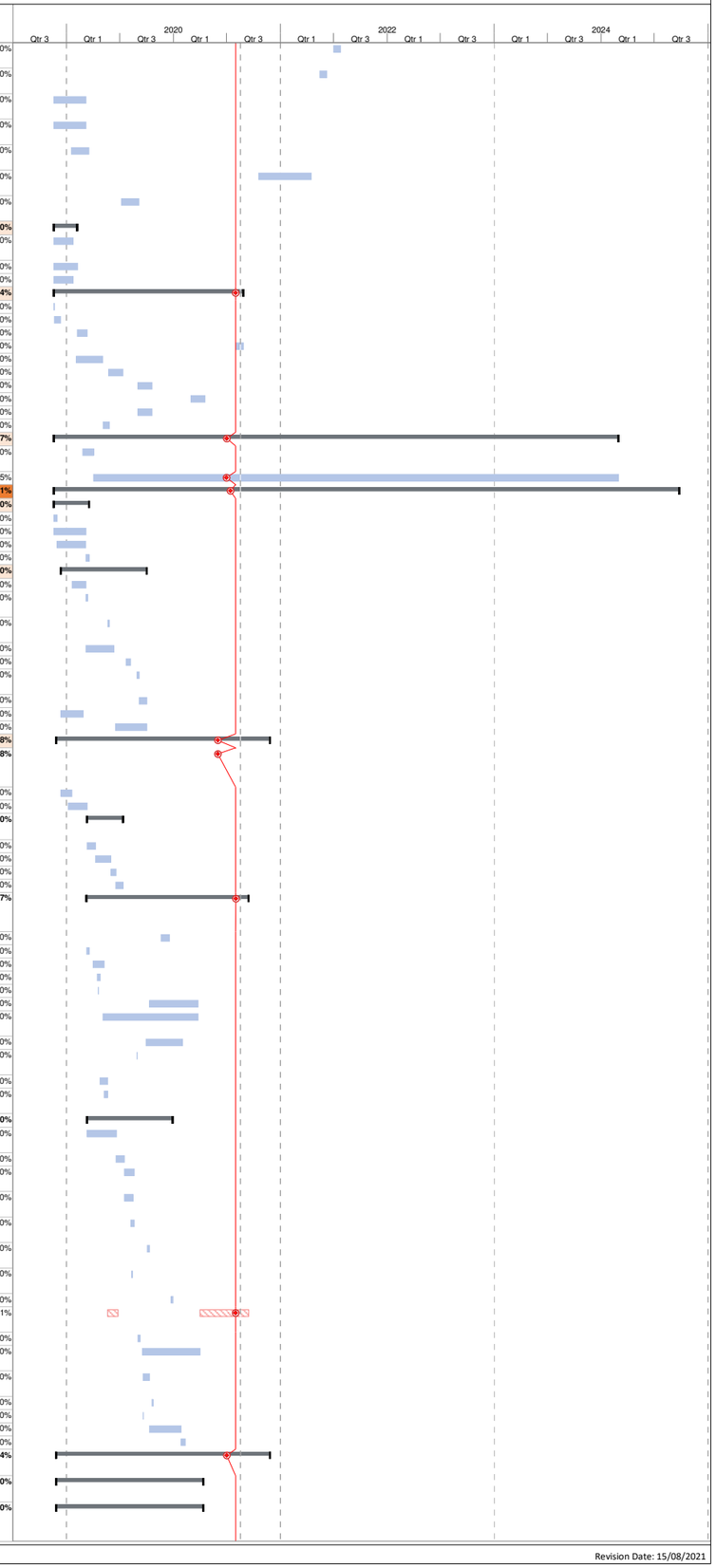
ID	Activity ID	Key Date	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance	% Complete
1	**CD-1000**		**Contract Dates**			**1585 days**	**Mon 18/11/19**	**Thu 27/3/25**	**1651.5 days**	**Mon 18/11/19**	**Fri 13/6/25**	**Mon 18/11/19**	**NA**			**88.5 days**		**0%**
2	CD-1010		Starting Date			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19		8,9,13FS+290 days,14FS+311 days	0 days		100%
3	**CAD-1000**		**Access Dates (cal. day)**			**310 days**	**Mon 18/11/19**	**Wed 23/9/20**	**289 days**	**Mon 18/11/19**	**Wed 2/9/20**	**Mon 18/11/19**	**Wed 2/9/20**			**0 days**		**100%**
4	CAD-1010		Portion B-1 (Access Road AR3)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	2	201	0 days		100%
5	CAD-1020		Portion B-1A (Area for the works for Sidestream Treatment Facilities by Others			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	2		0 days		100%
6	CAD-1030		Portion B-2 (Inlet Works No.1)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	2	295,306	0 days		100%
7	CAD-1040		Portion B-2A (Area for the pipe-jacking works by others)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	2		0 days		100%
8	CAD-1050		Portion B-3 (Primary Sedimentation Tanks No. 1-4)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	2	335	0 days		100%
9	CAD-1060		Portion B-4 (Bioreactor No. 2A & 2B)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	2	353	0 days		100%
10	CAD-1070		Portion B-5 (Membrane Facilities Building No.2)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Tue 17/3/20	Tue 17/3/20	Tue 17/3/20	Tue 17/3/20	2	402,419,425	0 days		100%
11	CAD-1080		Portion B-6 (SAS Pumping Station)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	2	434	0 days		100%
12	CAD-1090		Portion B-7 (Ancillary structures)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	2	461	0 days		100%
13	CAD-1100		Portion B-7A (Alternation works for existing Power House)			0 days	Wed 2/9/20	Wed 2/9/20	0 days	Wed 2/9/20	Wed 2/9/20	Wed 2/9/20	Wed 2/9/20	2FS+290 days	539FS-1 day,29FS+179 days	0 days		100%
14	CAD-1110		Portion B-8 (Alternation for existing Membrane Facilities Building No.1)			0 days	Tue 22/9/20	Tue 22/9/20	0 days	Wed 26/8/20	Wed 26/8/20	Wed 26/8/20	Wed 26/8/20	2FS+311 days	541FS-1 day	0 days		100%
15	CAD-1020		Portion B-8A (Alternation of air supply main for existing Air Blower House No.2)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	2	532	0 days		100%
16	CAD-1130		Portion B-9 (remainder works in Zone B)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	2	542,556	0 days		100%
17	CAD-1140		Portion B-9A (Area for the pipe-jacking works by others)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	2		0 days		100%
18	CAD-1150		Portion B-9B (Area for underground pipework modification and connection works by others)			0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	2		0 days		100%
19	CAD-1160		Portion B-9C (Area for the works for pipeworks)			0 days	Wed 22/7/20	Wed 22/7/20	0 days	Fri 24/7/20	Fri 24/7/20	Fri 24/7/20	Fri 24/7/20	2FS+151 days		0 days		100%
20	**CKD-1000**		**Key Dates (cal. day)**			**1440 days**	**Tue 19/11/19**	**Sat 28/10/23**	**1144 days**	**Fri 27/11/20**	**Mon 15/1/24**	**Fri 27/11/20**	**NA**			**618 days**		**99%**
21	CKD-1010		KD1A completion of AR3 in Portion B-1 (375 days after starting date)			300 days	Tue 19/11/19	Sun 13/9/20	0 days	Fri 27/11/20	Fri 27/11/20	Fri 27/11/20	Fri 27/11/20	2FS+376 days		0 days		100%
22	CKD-1020		KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (438.5 days after starting date)			360 days	Tue 19/11/19	Thu 12/11/20	1 day	Sat 30/1/21	Sat 30/1/21	Sat 30/1/21	Sat 30/1/21	2FS+439.5 days		0 days		100%
23	CKD-1030		KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (1068.5 days after starting date)			990 days	Tue 19/11/19	Thu 4/8/22	0 days	Sat 22/10/22	Sat 22/10/22	NA	NA	2FS+1069.5 days	67	1056.5 days		0%
24	CKD-1040		KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)			1190 days	Tue 19/11/19	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA	2FS+1191 days	70	947 days		0%
25	CKD-1050		KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1140days after starting date)			1140 days	Tue 19/11/19	Sun 1/1/23	0 days	Sun 1/1/23	Sun 1/1/23	NA	NA	2FS+1141 days		997 days		0%
26	CKD-1060		KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (855.5 days after starting date)			800 days	Tue 19/11/19	Wed 26/1/22	0 days	Wed 23/3/22	Wed 23/3/22	NA	NA	2FS+856.5 days	74	1273.5 days		0%
27	CKD-1070		KD1G completion of civil and structural works of MFB in Portion B-5 (1002.5 days after starting date)			950 days	Tue 19/11/19	Sat 25/6/22	0 days	Wed 17/8/22	Wed 17/8/22	NA	NA	2FS+1003.5 days	78	1126.5 days		0%
28	CKD-1080		KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (703.5 days after starting date)			630 days	Tue 19/11/19	Mon 9/8/21	0 days	Fri 22/10/21	Fri 22/10/21	NA	NA	2FS+704.5 days	82	1425.5 days		0%
29	CKD-1090		KD1I completion alternation works for existing Power House in Portion B-7A (179days after access date of B-7A)			150 days	Fri 4/9/20	Sun 31/1/21	1 day	Mon 1/3/21	Mon 1/3/21	Mon 1/3/21	Mon 1/3/21	13FS+179 days		0 days		100%
30	CKD-1100		KD1J completion of auxiliary facilites in Portion B-7 (811.5 days after starting date)			800 days	Tue 19/11/19	Wed 26/1/22	0 days	Mon 7/2/22	Mon 7/2/22	NA	NA	2FS+812.5 days	86	1317.5 days		0%
31	CKD-1110		KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (577.5 days after starting date)			495 days	Tue 19/11/19	Sat 27/3/21	0 days	Fri 18/6/21	Fri 18/6/21	Fri 18/6/21	Fri 18/6/21	2FS+578.5 days	93	0 days		100%
32	CKD-1120		KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A (494 days after starting date)			420 days	Tue 19/11/19	Mon 11/1/21	0 days	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21	2FS+495 days		0 days		100%
33	CKD-1130		KD3A completion of all utilities and road works (1519 days after starting date)			1440 days	Tue 19/11/19	Sat 28/10/23	0 days	Mon 15/1/24	Mon 15/1/24	NA	NA	2FS+1520 days	99	606 days		0%
34	**CCD-1000**		**Completion Date (cal. Day)**			**1956 days**	**Tue 19/11/19**	**Thu 27/3/25**	**1056 days**	**Sat 23/7/22**	**Fri 13/6/25**	**Sat 23/7/22**	**NA**			**50.5 days**		**0%**
35	CCD-1010		Section 1 of the Works (1,543.5 after starting date)			1460 days	Tue 19/11/19	Fri 17/11/23	0 days	Fri 9/2/24	Fri 9/2/24	NA	NA	2FS+1544.5 days	105	0 days		0%
36	CCD-1020		Section 2 of the Works (977.5 after starting date)			900 days	Tue 19/11/19	Fri 6/5/22	0 days	Sat 23/7/22	Sat 23/7/22	NA	NA	2FS+978.5 days	111	0 days		0%
37	CCD-1030		Section 3 of the Works (1,667.5 after starting date)			1590 days	Tue 19/11/19	Tue 26/3/24	0 days	Wed 12/6/24	Wed 12/6/24	Wed 12/6/24	NA	2FS+1668.5 days	39FS+1 day,117,38FS+1 day	-77.5 days		99%
38	CCD-1040		Defects Liability Period			365 days	Wed 27/3/24	Thu 27/3/25	365 days	Thu 13/6/24	Fri 13/6/25	NA	NA	37FS+1 day		0 days		0%
39	CCD-1050		Landscape Establishment Works			365 days	Wed 27/3/24	Thu 27/3/25	365 days	Thu 13/6/24	Fri 13/6/25	NA	NA	37FS+1 day		103.5 days		0%
40	**PD-1000**	*	**Planned Completion**			**1686 days**	**Fri 14/8/20**	**Thu 27/3/25**	**1820 days**	**Wed 30/9/20**	**Wed 24/9/25**	**Wed 30/9/20**	**NA**			**0 days**		**3%**
41	**PCD-1000**	*	**Planned Completion - Key Dates (cal. day)**			**1170 days**	**Fri 14/8/20**	**Sat 28/10/23**	**1321 days**	**Wed 30/9/20**	**Mon 13/5/24**	**Wed 30/9/20**	**NA**			**-119 days**		**99%**
42	PKD-1010	KD1A	KD1A completion of AR3 in Portion B-1 (300days after starting date)			0 days	Sat 12/9/20	Sat 12/9/20	0 days	Wed 30/9/20	Wed 30/9/20	Wed 30/9/20	Wed 30/9/20	210FF		0 days		100%
43	PCD-1020	KD1B	KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)			0 days	Fri 14/8/20	Fri 14/8/20	0 days	Fri 22/1/21	Fri 22/1/21	Fri 22/1/21	Fri 22/1/21	286FF,291FF,273FF		0 days		100%
44	PCD-1030	KD1C	KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (990days after starting date)			0 days	Thu 4/8/22	Thu 4/8/22	0 days	Thu 1/12/22	Thu 1/12/22	NA	NA	330FF,322FF,248FF,294FF,212FF,250FF		-40 days		0%
45	PCD-1040	KD1D	KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)			0 days	Mon 20/2/23	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA	349FF,348FF,351FF,333FF		0 days		0%
46	PCD-1050	KD1E	KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)			0 days	Sat 31/12/22	Sat 31/12/22	0 days	Sat 22/4/23	Sat 22/4/23	NA	NA	391FF,397FF,393FF,396FF,392FF		-111 days		0%
47	PCD-1060	KD1F	KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date)			0 days	Tue 25/1/22	Tue 25/1/22	0 days	Thu 4/8/22	Thu 4/8/22	NA	NA	430FF		-135 days		0%
48	PCD-1070	KD1G	KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date)			0 days	Sat 25/6/22	Sat 25/6/22	0 days	Wed 28/12/22	Wed 28/12/22	NA	NA	431FF		-133 days		0%
49	PCD-1080	KD1H	KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)			0 days	Mon 9/8/21	Mon 9/8/21	0 days	Sat 19/3/22	Sat 19/3/22	NA	NA	459FF,458FF		-148 days		0%
50	PCD-1090	KD1I	KD1I completion alternation works for existing Power House in Portion B-7A (150days after access date of B-7A)			0 days	Sat 30/1/21	Sat 30/1/21	1 day	Fri 29/1/21	Fri 29/1/21	Fri 29/1/21	Fri 29/1/21	539FF		0 days		100%
51	PCD-1100	KD1J	KD1J completion of auxiliary facilites in Portion B-7 (800days after starting date)			0 days	Wed 26/1/22	Wed 26/1/22	0 days	Mon 13/6/22	Mon 13/6/22	NA	NA	496FF,495FF,521FF,520FF,513FF,512FF		-126 days		0%
52	PCD-1110	KD2A	KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)			0 days	Sat 27/3/21	Sat 27/3/21	0 days	Wed 4/8/21	Wed 4/8/21	NA	NA	545FF,543FF		-47 days		0%
53	PCD-1120	KD2B	KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A (420days after starting date)			0 days	Thu 3/9/20	Thu 3/9/20	1 day	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21	532FF,536FF,537FF,538FF		0 days		100%
54	PCD-1130	KD3A	KD3A completion of all utilities and road works (1440days after starting date)			0 days	Sat 28/10/23	Sat 28/10/23	0 days	Mon 13/5/24	Mon 13/5/24	NA	NA	555FF,557FF		-119 days		0%
55	**PCD-1000**	*	**Planned Completion Date (cal. Day)**			**1056 days**	**Fri 6/5/22**	**Thu 27/3/25**	**1054 days**	**Sat 5/11/22**	**Wed 24/9/25**	**NA**	**NA**			**-106 days**		**0%**
56	PCD-1010	SW1	Section 1 of the Works (1,460 after starting date)			0 days	Wed 23/8/23	Wed 23/8/23	0 days	Mon 27/11/23	Mon 27/11/23	NA	NA	522FF,514FF,477FF,504FF,488FF,460FF		73 days		0%
57	PCD-1020	SW2	Section 2 of the Works (900 after starting date)			0 days	Fri 6/5/22	Fri 6/5/22	0 days	Sat 5/11/22	Sat 5/11/22	NA	NA	549FF,399FF,433FF,352FF,334FF,550FF		-106 days		0%
58	PCD-1030	SW3	Section 3 of the Works (1,590 after starting date)			0 days	Tue 26/3/24	Tue 26/3/24	0 days	Tue 24/9/24	Tue 24/9/24	NA	NA	558FF,559FF,541FF,540FF		-105 days		0%
59	PCD-1040	DLP	Defects Liability Period			0 days	Thu 27/3/25	Thu 27/3/25	0 days	Wed 24/9/25	Wed 24/9/25	NA	NA	560FF,153FF		0 days		0%
60	PCD-1050		Landscape Establishment Works			0 days	Thu 27/3/25	Thu 27/3/25	0 days	Wed 24/9/25	Wed 24/9/25	NA	NA	560FF		0 days		0%
61	**ET-1000**		**Effects from Inclement Weather and Other Time Affected Events**			**0 days**	**NA**	**NA**	**1143 days**	**Fri 18/6/21**	**Sun 4/8/24**	**Fri 18/6/21**	**NA**			**416.5 days**		**2%**
62	**ET1C-1000**		**Effects to KD1C**			**0 days**	**NA**	**NA**	**53 days**	**Sat 22/10/22**	**Wed 14/12/22**	**NA**	**NA**			**1015.5 days**		**0%**
63	**ET1C-1100**		**Inclement Weather to KD1C (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Wed 26/10/22**	**Wed 14/12/22**	**NA**	**NA**			**1015.5 days**		**0%**
64	ET1C-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Wed 26/10/22	Fri 18/11/22	NA	NA	67	65	1015.5 days		0%
65	ET1C-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Fri 18/11/22	Wed 14/12/22	NA	NA	64		1015.5 days		0%
66	**ET1C-1200**		**Other Events to KD1C (not all)**			**0 days**	**NA**	**NA**	**4 days**	**Sat 22/10/22**	**Wed 26/10/22**	**NA**	**NA**			**1015.5 days**		**0%**
67	ET1C-1210		Special working arrangement due to COVID-19 in January 2020			0 days	NA	NA	4 days	Sat 22/10/22	Wed 26/10/22	NA	NA	23	64	1056.5 days		0%
68	**ET1D-1000**		**Effects to KD1D**			**0 days?**	**NA**	**NA**	**26 days**	**Mon 20/2/23**	**Wed 22/3/23**	**NA**	**NA**			**749 days**		**0%**
69	**ET1D-1100**		**Inclement Weather to KD1D (cal. Day)**			**0 days?**	**NA**	**NA**	**26 days**	**Mon 20/2/23**	**Wed 22/3/23**	**NA**	**NA**			**749 days**		**0%**
70	ET1D-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA	24	71	749 days		0%
71	ET1D-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Tue 21/2/23	Wed 22/3/23	NA	NA	70		749 days		0%
72	**ET1F-1000**		**Effects to KD1F**			**0 days**	**NA**	**NA**	**49 days**	**Wed 23/3/22**	**Wed 11/5/22**	**NA**	**NA**			**1232.5 days**		**0%**
73	**ET1F-1100**		**Inclement Weather to KD1F (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Wed 23/3/22**	**Wed 11/5/22**	**NA**	**NA**			**1232.5 days**		**0%**
74	ET1F-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Wed 23/3/22	Fri 15/4/22	NA	NA	26	75	1232.5 days		0%
75	ET1F-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Fri 15/4/22	Wed 11/5/22	NA	NA	74		1232.5 days		0%
76	**ET1G-1000**		**Effects to KD1G**			**0 days**	**NA**	**NA**	**49 days**	**Wed 17/8/22**	**Wed 5/10/22**	**NA**	**NA**			**1085.5 days**		**0%**
77	**ET1G-1100**		**Inclement Weather to KD1G (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Wed 17/8/22**	**Wed 5/10/22**	**NA**	**NA**			**1085.5 days**		**0%**
78	ET1G-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Wed 17/8/22	Fri 9/9/22	NA	NA	27	79	1085.5 days		0%
79	ET1G-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Fri 9/9/22	Wed 5/10/22	NA	NA	78		1085.5 days		0%
80	**ET1H-1000**		**Effects to KD1H**			**0 days**	**NA**	**NA**	**49 days**	**Fri 22/10/21**	**Fri 10/12/21**	**NA**	**NA**			**1384.5 days**		**0%**
81	**ET1H-1100**		**Inclement Weather to KD1H (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Fri 22/10/21**	**Fri 10/12/21**	**NA**	**NA**			**1384.5 days**		**0%**
82	ET1H-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Fri 22/10/21	Sun 14/11/21	NA	NA	28	83	1384.5 days		0%
83	ET1H-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Sun 14/11/21	Fri 10/12/21	NA	NA	82		1384.5 days		0%
84	**ET1H-1000**		**Effects to KD1J**			**0 days**	**NA**	**NA**	**49 days**	**Mon 7/2/22**	**Mon 28/3/22**	**NA**	**NA**			**1276.5 days**		**0%**



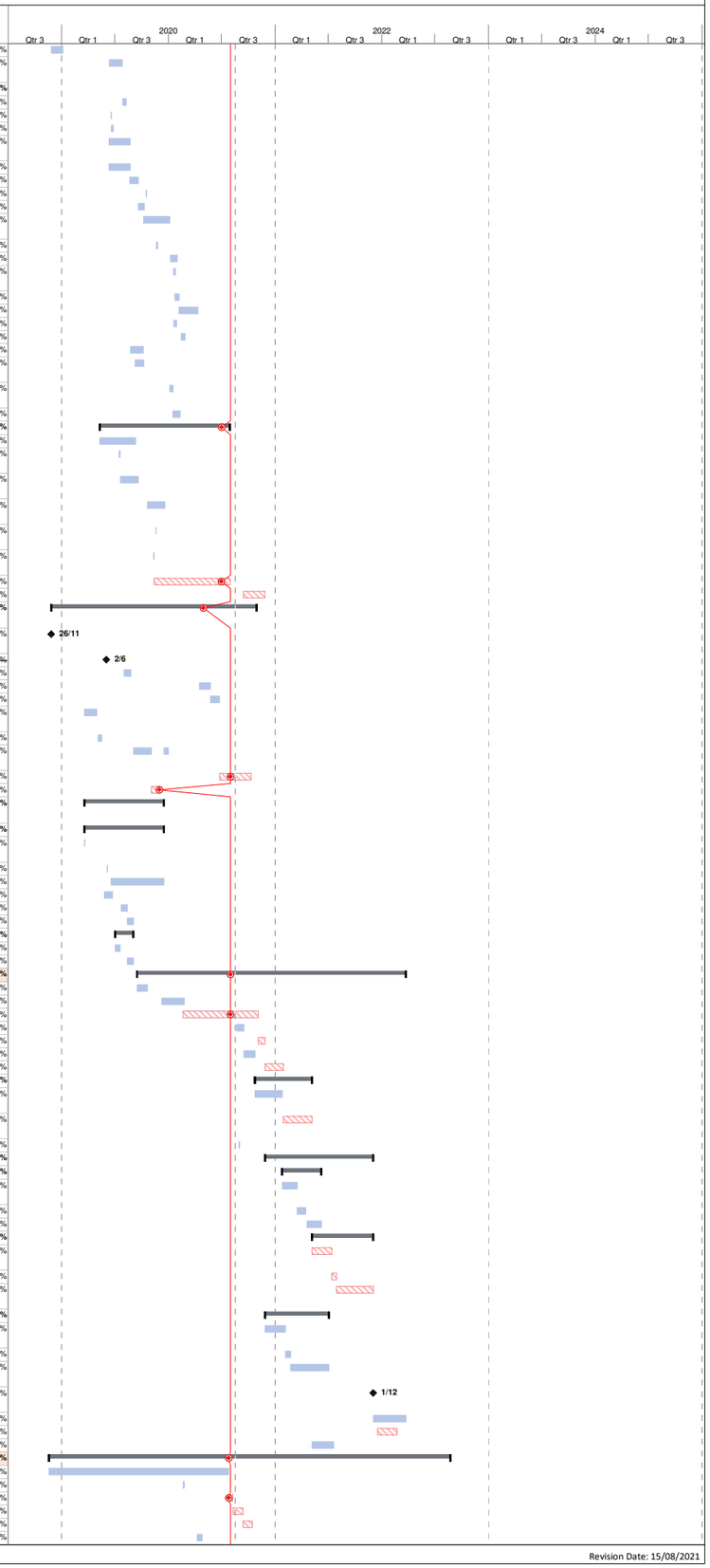
ID	Activity ID	Key Date	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance	% Complete
85	**ET1H-1100**		**Inclement Weather to KD1J (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Mon 7/2/22**	**Mon 28/3/22**	**NA**	**NA**			**1276.5 days**		**0%**
86	ET1H-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Mon 7/2/22	Wed 2/3/22	NA	NA	30	87	1276.5 days		0%
87	ET1H-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Wed 2/3/22	Mon 28/3/22	NA	NA	86		1276.5 days		0%
88	**ET2A-1000**		**Effects to KD2A**			**0 days**	**NA**	**NA**	**53 days**	**Fri 18/6/21**	**Tue 10/8/21**	**Fri 18/6/21**	**NA**			**1506.5 days**		**24%**
89	**ET2A-1100**		**Inclement Weather to KD2A (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Tue 22/6/21**	**Tue 10/8/21**	**Tue 22/6/21**	**NA**			**1506.5 days**		**17%**
90	ET2A-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Tue 22/6/21	Thu 15/7/21	Tue 22/6/21	NA	93	91	1506.5 days		37%
91	ET2A-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Thu 15/7/21	Tue 10/8/21	NA	NA	90		1506.5 days		0%
92	**ET2A-1200**		**Other Events to KD2A (not all)**			**0 days**	**NA**	**NA**	**4 days**	**Fri 18/6/21**	**Tue 22/6/21**	**Fri 18/6/21**	**Tue 22/6/21**			**0 days**		**100%**
93	ET2A-1210		Special working arrangement due to COVID-19 in January 2020			0 days	NA	NA	4 days	Fri 18/6/21	Tue 22/6/21	Fri 18/6/21	Tue 22/6/21	31	90	0 days		100%
94	**ET3A-1000**		**Effects to KD3A**			**0 days**	**NA**	**NA**	**53 days**	**Tue 16/1/24**	**Fri 8/3/24**	**NA**	**NA**			**565 days**		**0%**
95	**ET3A-1100**		**Inclement Weather to KD3A (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Sat 20/1/24**	**Fri 8/3/24**	**NA**	**NA**			**565 days**		**0%**
96	ET3A-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Sat 20/1/24	Sun 11/2/24	NA	NA	99	97	565 days		0%
97	ET3A-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Mon 12/2/24	Fri 8/3/24	NA	NA	96		565 days		0%
98	**ET3A-1200**		**Other Events to KD3A (not all)**			**0 days**	**NA**	**NA**	**4 days**	**Tue 16/1/24**	**Fri 19/1/24**	**NA**	**NA**			**565 days**		**0%**
99	ET3A-1210		Special working arrangement due to COVID-19 in January 2020			0 days	NA	NA	4 days	Tue 16/1/24	Fri 19/1/24	NA	NA	33	96	565 days		0%
100	**ETS1-1000**		**Effects to Section 1 of the Works**			**0 days**	**NA**	**NA**	**53 days**	**Fri 9/2/24**	**Tue 2/4/24**	**NA**	**NA**			**540.5 days**		**0%**
101	**ETS1-1100**		**Inclement Weather to Section 1 of the Works (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Tue 13/2/24**	**Tue 2/4/24**	**NA**	**NA**			**540.5 days**		**0%**
102	ETS1-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Tue 13/2/24	Thu 7/3/24	NA	NA	105	103	540.5 days		0%
103	ETS1-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Thu 7/3/24	Tue 2/4/24	NA	NA	102		540.5 days		0%
104	**ETS1-1200**		**Other Events to Section 1 of the Works (not all)**			**0 days**	**NA**	**NA**	**4 days**	**Fri 9/2/24**	**Tue 13/2/24**	**NA**	**NA**			**540.5 days**		**0%**
105	ETS1-1210		Special working arrangement due to COVID-19 in January 2020			0 days	NA	NA	4 days	Fri 9/2/24	Tue 13/2/24	NA	NA	35	102	540.5 days		0%
106	**ETS2-1000**		**Effects to Section 2 of the Works**			**0 days**	**NA**	**NA**	**53 days**	**Sat 23/7/22**	**Wed 14/9/22**	**NA**	**NA**			**1106.5 days**		**0%**
107	**ETS2-1100**		**Inclement Weather to Section 2 of the Works (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Wed 27/7/22**	**Wed 14/9/22**	**NA**	**NA**			**1106.5 days**		**0%**
108	ETS2-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Wed 27/7/22	Fri 19/8/22	NA	NA	111	109	1106.5 days		0%
109	ETS2-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Fri 19/8/22	Wed 14/9/22	NA	NA	108		1106.5 days		0%
110	**ETS2-1200**		**Other Events to Section 2 of the Works (not all)**			**0 days**	**NA**	**NA**	**4 days**	**Sat 23/7/22**	**Wed 27/7/22**	**NA**	**NA**			**1106.5 days**		**0%**
111	ETS2-1210		Special working arrangement due to COVID-19 in January 2020			0 days	NA	NA	4 days	Sat 23/7/22	Wed 27/7/22	NA	NA	36	108	1106.5 days		0%
112	**ETS3-1000**		**Effects to Section 3 of the Works**			**0 days**	**NA**	**NA**	**53 days**	**Wed 12/6/24**	**Sun 4/8/24**	**NA**	**NA**			**416.5 days**		**0%**
113	**ETS3-1100**		**Inclement Weather to Section 3 of the Works (cal. Day)**			**0 days**	**NA**	**NA**	**49 days**	**Sun 16/6/24**	**Sun 4/8/24**	**NA**	**NA**			**416.5 days**		**0%**
114	ETS3-1110		Delay and Disruption of Works before June 2021			0 days	NA	NA	23 days	Sun 16/6/24	Tue 9/7/24	NA	NA	117	115	416.5 days		0%
115	ETS3-1120		Delay and Disruption of Works in June 2021			0 days	NA	NA	26 days	Tue 9/7/24	Sun 4/8/24	NA	NA	114		416.5 days		0%
116	**ETS3-1200**		**Other Events to Section 3 of the Works (not all)**			**0 days**	**NA**	**NA**	**4 days**	**Wed 12/6/24**	**Sun 16/6/24**	**NA**	**NA**			**416.5 days**		**0%**
117	ETS3-1210		Special working arrangement due to COVID-19 in January 2020			0 days	NA	NA	4 days	Wed 12/6/24	Sun 16/6/24	NA	NA	37	114	416.5 days		0%
118	**SUB-1000**		**Submissions (cal.day)**			**1564 days**	**Mon 18/11/19**	**Wed 28/2/24**	**1956 days**	**Mon 18/11/19**	**Wed 26/3/25**	**Mon 18/11/19**	**NA**			**182 days**		**60%**
119	**SUBS-1000**		**Subletting Package**			**96 days**	**Mon 18/11/19**	**Fri 21/2/20**	**562 days**	**Mon 18/11/19**	**Tue 1/6/21**	**Mon 18/11/19**	**Tue 1/6/21**			**0 days**		**100%**
120	SUBS-1010		Prepare & submit subletting procedure			12 days	Mon 18/11/19	Fri 29/11/19	12 days	Mon 18/11/19	Fri 29/11/19	Mon 18/11/19	Fri 29/11/19	2	121	0 days		100%
121	SUBS-1020		PM review and accept subletting procedure			15 days	Sat 30/11/19	Wed 11/12/19	12 days	Sat 30/11/19	Wed 11/12/19	Sat 30/11/19	Wed 11/12/19	120	142,122,125,124,123	0 days		100%
122	SUBS-1030		Subletting for demolition works			24 days	Thu 12/12/19	Sat 4/1/20	93 days	Tue 17/12/19	Wed 18/3/20	Tue 17/12/19	Wed 18/3/20	121,154	339,462,295,402,539,359	0 days		100%
123	SUBS-1040		Subletting for UU diversion for Inlet Works No.1			24 days	Thu 12/12/19	Sat 4/1/20	78 days	Fri 10/1/20	Fri 27/3/20	Fri 10/1/20	Fri 27/3/20	121	212	0 days		100%
124	SUBS-1050		Subletting for Inspection pit excavation			0 days	NA	NA	56 days	Thu 19/12/19	Wed 12/2/20	Thu 19/12/19	Wed 12/2/20	121,154	214,126	0 days		100%
125	SUBS-1060		Subletting for Preliminary Works (topographic surveying)			14 days	Thu 12/12/19	Wed 25/12/19	54 days	Fri 20/12/19	Tue 11/2/20	Fri 20/12/19	Tue 11/2/20	121,154	159,198,129,130,131,127	0 days		100%
126	SUBS-1070		Subletting for AR3 access road			24 days	Thu 12/12/19	Sat 4/1/20	0 days	Fri 13/12/19	Tue 11/2/20	Fri 13/12/19	Tue 11/2/20	124	127,210	0 days		100%
127	SUBS-1080		Subletting for pre-drilling works			24 days	Thu 12/12/19	Sat 4/1/20	38 days	Thu 6/2/20	Fri 20/3/20	Thu 6/2/20	Fri 20/3/20	125,126	452,342,414,128	0 days		100%
128	SUBS-1090		Subletting for Contractor designer for temporary works and ICE			24 days	Thu 12/12/19	Sat 4/1/20	71 days	Mon 16/12/19	Mon 24/2/20	Mon 16/12/19	Mon 24/2/20	127		0 days		100%
129	SUBS-1100		Subletting for independent BIM consultant			24 days	Thu 12/12/19	4/1/120	0 days	Wed 11/12/19	Thu 23/1/20	Wed 11/12/19	Thu 23/1/20	125	193	0 days		100%
130	SUBS-1110		Subletting for independent BIM services			0 days	NA	NA	15 days	Tue 14/1/20	Wed 26/2/20	Tue 14/1/20	Wed 26/2/20	125	193	0 days		100%
131	SUBS-1120		Subletting for Design, Supply & Install of Temporary Activated Carbon Deodorization Units (E&M Works)			0 days	NA	NA	0 days	Fri 13/12/19	Tue 11/2/20	Fri 13/12/19	Tue 11/2/20	125	132,133	0 days		100%
132	SUBS-1130		Subletting for pre-bored H pile works			36 days	Thu 12/12/19	Thu 16/1/20	45 days	Sun 5/7/20	Tue 18/8/20	Sun 5/7/20	Tue 18/8/20	131	343,415,453,309	0 days		100%
133	SUBS-1140		Subletting for Sheetpile installation works			0 days	NA	NA	45 days	Tue 1/9/20	Thu 15/10/20	Tue 1/9/20	Thu 15/10/20	131	344,455,134,135	0 days		100%
134	SUBS-1150		Subletting for ELS works for Inlet Works No.1			48 days	Sun 5/1/20	Fri 21/2/20	85 days	Fri 16/10/20	Fri 8/1/21	Fri 16/10/20	Fri 8/1/21	133		0 days		100%
135	SUBS-1160		Subletting for ELS works for Membrance Facilities Building and other buildings			48 days	Sun 5/1/20	Fri 21/2/20	85 days	Fri 16/10/20	Fri 8/1/21	Fri 16/10/20	Fri 8/1/21	133	346,389,456,136,137,138,139,140,4	0 days		100%
136	SUBS-1170		Subletting for structural works for Inlet Works Building			48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	Sat 9/1/21	Thu 25/2/21	135		0 days		100%
137	SUBS-1180		Subletting for structural works for Primary Sedimentation Tanks			48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	Sat 9/1/21	Thu 25/2/21	135	348	0 days		100%
138	SUBS-1190		Subletting for structural works for Bioreactors			48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	Sat 9/1/21	Thu 25/2/21	135	391	0 days		100%
139	SUBS-1200		Subletting for structural works for Membrance Facilities Building			48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	Sat 9/1/21	Thu 25/2/21	135	426	0 days		100%
140	SUBS-1210		Subletting for structural works for SAS pumping house and ancillary structures			48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	Sat 9/1/21	Thu 25/2/21	135	141	0 days		100%
141	SUBS-1220		Subletting for ABWF works			48 days	Thu 12/12/19	Tue 28/1/20	48 days	Fri 26/2/21	Wed 14/4/21	Fri 26/2/21	Wed 14/4/21	140	332,350,398,460,488,504,514,522,	0 days		100%
142	SUBS-1230		Subletting for Process Pipeworks, Utilities and Roadworks			48 days	Thu 12/12/19	Tue 28/1/20	150 days	Fri 22/5/20	Sun 18/10/20	Fri 22/5/20	Sun 18/10/20	121	532,549,551,552,553,554,543	0 days		100%
143	SUBS-1240		Subletting for Landscape Hardworks and Softworks			48 days	Thu 12/12/19	Tue 28/1/20	48 days	Thu 15/4/21	Tue 1/6/21	Thu 15/4/21	Tue 1/6/21	141	559,560	0 days		100%
144	SUBS-1250		Subletting for Trial dewatering works and installation of additional stop logs at BR2 connon channel due to malfucntioned of existing penstock at FST no. 5 and 7 (EWN 055)			0 days	NA	NA	15 days	Tue 15/9/20	Tue 29/9/20	Tue 15/9/20	Tue 29/9/20		355	0 days		100%
145	SUBS-1260		Subletting for Diversion of Power supply for existing Slaghter House pump station (CE 034)			0 days	NA	NA	14 days	Mon 21/9/20	Sun 4/10/20	Mon 21/9/20	Sun 4/10/20			0 days		100%
146	SUBS-1270		Subletting for Decommission of exisiting power and signal systems in leachate Pump station switch room (PMI 039)			0 days	NA	NA	14 days	Mon 21/9/20	Sun 4/10/20	Mon 21/9/20	Sun 4/10/20		439	0 days		100%
147	SUBS-1280		Subletting for Diversion of Existing DN250 Leachate Raising Main (PPMI 025)			0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20			0 days		100%
148	SUBS-1290		Subletting for Construction of Cable trough for CLP 11kv Cable Diversion (PPMI 041)			0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		453	0 days		100%
149	SUBS-1300		Subletting for Demolition of Existing Pillar box and its concrete plinth (CE 030)			0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		441	0 days		100%
150	SUBS-1310		Subletting for Excavation to locate existing underground cable near SAS Pump Station (PPMI 038)			0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20			0 days		100%
151	SUBS-1320		Subletting for Diversion of pumping system sewerage (PPMI 083)			0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		446	0 days		100%
152	**SUBA-1000**		**Statutory Submission, Submission and Approval**			**1564 days**	**Mon 18/11/19**	**Wed 28/2/24**	**1956 days**	**Mon 18/11/19**	**Wed 26/3/25**	**Mon 18/11/19**	**NA**			**182 days**		**49%**
153	SUBA-1010		Liaison with operator of SWHSTW and obtain their consent of associated method statement of major activities			0 days	NA	NA	1584 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA	2	59FF	156 days		30%
154	SUBA-1020		Prepare and submit Subcontractor Management Plan (SMP)			24 days	Mon 18/11/19	Wed 11/12/19	24 days	Mon 18/11/19	Wed 11/12/19	Mon 18/11/19	Wed 11/12/19	2	122,125,124	0 days		100%
155	SUBA-1030		Prepare and submit Interface Management Plan			36 days	Mon 18/11/19	Mon 23/12/19	36 days	Mon 18/11/19	Mon 23/12/19	Mon 18/11/19	Mon 23/12/19	2		0 days		100%
156	SUBA-1040		Prepare and submit the TTA plans inside Treatment Plant for UU diversion and buildings construction			24 days	Mon 18/11/19	Wed 11/12/19	24 days	Mon 18/11/19	Wed 11/12/19	Mon 18/11/19	Wed 11/12/19	2	201	0 days		100%
157	SUBA-1050		Prepare and submit method statement for UU diversion for Inlet Works No.1			12 days	Mon 18/11/19	Fri 29/11/19	12 days	Mon 18/11/19	Fri 29/11/19	Mon 18/11/19	Fri 29/11/19	2	158	0 days		100%
158	SUBA-1060		PM review and accept the method statement			12 days	Sat 30/11/19	Wed 11/12/19	0 days	Sat 30/11/19	Wed 11/12/19	Sat 30/11/19	Wed 11/12/19	157	213,214	0 days		100%
159	SUBA-1070		Prepare and submit combine underground services drawing for PM's review the alignment			24 days	Thu 26/12/19	Sat 18/1/20	23 days	Thu 26/12/19	Sat 18/1/20	Thu 26/12/19	Sat 18/1/20	125		0 days		100%
160	SUBA-1080		Prepare and submit method statement for demolition existing structures			24 days	Mon 18/11/19	Wed 11/12/19	66 days	Mon 18/11/19	Wed 22/1/20	Mon 18/11/19	Wed 22/1/20	2	402,339,462,295,539	0 days		100%
161	SUBA-1090		Prepare and submit method statement for structural works for buildings			24 days	Mon 18/11/19	Wed 11/12/19	197 days	Mon 18/11/19	Mon 1/6/20	Mon 18/11/19	Mon 1/6/20	2		0 days		100%
162	SUBA-1100		Prepare and submit method statements to MTRC regarding the works within railing protection boundary			36 days	Mon 18/11/19	Mon 23/12/19	92 days	Sat 1/2/20	Mon 25/5/20	Sat 1/2/20	Mon 25/5/20	2	339,462,539,359	0 days		100%
163	SUBA-1110		Prepare and submit & approve Safety Management Plan			24 days	Mon 18/11/19	Wed 11/12/19	3 days	Mon 18/11/19	Wed 20/11/19	Mon 18/11/19	Wed 20/11/19	2		0 days		100%
164	SUBA-1120		Prepare and submit Excavation and lateral support (ELS) proposal			24 days	Mon 10/2/20	Wed 4/3/20	128 days	Mon 10/2/20	Tue 16/6/20	Mon 10/2/20	Tue 16/6/20	2		0 days		100%
165	SUBA-1120a		Prepare and submit Excavation and lateral support (ELS) proposal for Inlet Works No.1			0 days	NA	NA	24 days	Wed 29/9/21	Sat 23/10/21	NA	NA	314SF		1433 days		0%
166	SUBA-1120b		Prepare and submit Excavation and lateral support (ELS) proposal for Primnary Sedimentation tanks No.1-4			0 days	NA	NA	24 days	Fri 1/7/22	Mon 25/7/22	NA	NA	346SF		1158 days		0%
167	SUBA-1120c		Prepare and submit Excavation and lateral support (ELS) proposal for Bioreactor No. 2A&2B			0 days	NA	NA	24 days	Sun 15/5/22	Wed 8/6/22	NA	NA	389SF		1205 days		0%
168	SUBA-1130		Prepare and submit Dewatering proposal for basement construction			24 days	Mon 10/2/20	Wed 4/3/20	165 days	Mon 10/2/20	Thu 23/7/20	Mon 10/2/20	Thu 23/7/20	2		0 days		100%
169	SUBA-1130a		Prepare and submit Dewatering proposal for basement construction for Inlet Works No.1			0 days	NA	NA	24 days	Wed 29/9/21	Sat 23/10/21	NA	NA	314SF		1433 days		0%



ID	Activity ID	Key Date	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance	% Complete
170	SUBA-1130b		Prepare and submit Dewatering proposal for basement construction for Primnary Sedimentation tanks No.1-4			0 days	NA	NA	24 days	Fri 1/7/22	Mon 25/7/22	NA	NA	346SF		1158 days		0%
171	SUBA-1130c		Prepare and submit Dewatering proposal for basement construction for Bioreactor No. 2A&2B			0 days	NA	NA	24 days	Sun 15/5/22	Wed 8/6/22	NA	NA	389SF		1205 days		0%
172	SUBA-1140		Prepare and submit Pre-construction condition survey of existing structures/ services			24 days	Wed 5/2/20	Fri 28/2/20	0 days	Mon 18/11/19	Fri 6/3/20	Mon 18/11/19	Fri 6/3/20	198		0 days		100%
173	SUBA-1150		Prepare and submit Settlement and movement monitoring proposal of existing structures/ services			24 days	Wed 5/2/20	Fri 28/2/20	110 days	Mon 18/11/19	Fri 6/3/20	Mon 18/11/19	Fri 6/3/20	198FS+120 days		0 days		100%
174	SUBA-1160		Prepare and submit design of structure elements of the temporary activated carbon deodourization unit			60 days	Fri 17/1/20	Mon 16/3/20	60 days	Mon 18/11/19	Mon 16/3/20	Mon 18/11/19	Mon 16/3/20	2FS+60 days		0 days		100%
175	SUBA-1170		Prepare of RSE and structural design for alternation and additional (A&A) works at Membrane Facilities Building No.1			180 days	Mon 18/10/21	Fri 15/4/22	180 days	Mon 18/10/21	Fri 15/4/22	NA	NA	NA	541	332 days		0%
176	SUBA-1180		Prepare of RSE and structural design for alternation and additional (A&A) works at Main Power House			44 days	Wed 15/7/20	Thu 3/9/20	60 days	Mon 6/7/20	Thu 3/9/20	Mon 6/7/20	Thu 3/9/20		539	0 days		100%
177	**SUBE-1000**		**Environmental Aspect Submissions**			**45 days**	**Mon 18/11/19**	**Wed 1/1/20**	**81 days**	**Mon 18/11/19**	**Thu 6/2/20**	**Mon 18/11/19**	**Thu 6/2/20**			**0 days**		**100%**
178	SUBE-1010		Prepare, submit & approve Site Management Plan for Trip Tricket System			45 days	Mon 18/11/19	Wed 1/1/20	66 days	Mon 18/11/19	Wed 22/1/20	Mon 18/11/19	Wed 22/1/20	2		0 days		100%
179	SUBE-1020		Prepare, submit & approve Waste Management Plan			45 days	Mon 18/11/19	Wed 1/1/20	81 days	Mon 18/11/19	Thu 6/2/20	Mon 18/11/19	Thu 6/2/20	2		0 days		100%
180	SUBE-1030		Prepare, submit & approve Environmental Management Plan			45 days	Mon 18/11/19	Wed 1/1/20	66 days	Mon 18/11/19	Wed 22/1/20	Mon 18/11/19	Wed 22/1/20	2		0 days		100%
181	**SUBP-1000**		**Procurement**			**731 days**	**Mon 18/11/19**	**Wed 17/11/21**	**648 days**	**Mon 18/11/19**	**Thu 26/8/21**	**Mon 18/11/19**	**NA**			**278 days**		**94%**
182	SUBP-1010		Prepare and submit the Procurement Procedure			12 days	Mon 18/11/19	Fri 29/11/19	2 days	Mon 18/11/19	Tue 19/11/19	Mon 18/11/19	Tue 19/11/19	2	183	0 days		100%
183	SUBP-1020		PM Review & Accept Procurement Procedure			12 days	Sat 30/11/19	Wed 11/12/19	21 days	Tue 19/11/19	Tue 10/12/19	Tue 19/11/19	Tue 10/12/19	182	184,185,186,187,188,189,190,191	0 days		100%
184	SUBP-1030		Prepare, submit and approve the pipe works material			25 days	Thu 12/12/19	Sun 5/1/20	34 days	Thu 6/2/20	Tue 10/3/20	Thu 6/2/20	Tue 10/3/20	183	212,532,551,552,554,553,549,557,5	0 days		100%
185	SUBP-1040		Prepare, submit and approve the water proofing material			25 days	Thu 12/12/19	Sun 5/1/20	25 days	Mon 2/8/21	Thu 26/8/21	NA	NA	183	329,325	278 days		0%
186	SUBP-1050		Prepare, submit and approve the concrete mix material			48 days	Thu 12/12/19	Tue 28/1/20	90 days	Mon 3/2/20	Sat 2/5/20	Mon 3/2/20	Sat 2/5/20	183	391,426	0 days		100%
187	SUBP-1060		Prepare, submit and approve the rebar material			48 days	Thu 12/12/19	Tue 28/1/20	49 days	Sat 23/5/20	Fri 10/7/20	Sat 23/5/20	Fri 10/7/20	183	391,426	0 days		100%
188	SUBP-1070		Prepare, submit and approve the metal works material			48 days	Thu 12/12/19	Tue 28/1/20	48 days	Tue 1/9/20	Sun 18/10/20	Tue 1/9/20	Sun 18/10/20	183	391,426	0 days		100%
189	SUBP-1080		Prepare, submit and approve the ABWF works material			48 days	Sat 12/12/20	Tue 28/1/20	48 days	Mon 1/3/21	Sat 17/4/21	Mon 1/3/21	Sat 17/4/21	183	332,350,398,460,488,504,514,522,4	0 days		100%
190	SUBP-1090		Prepare, submit and approve the protective lining to concrete			0 days	NA	NA	48 days	Tue 1/9/20	Sun 18/10/20	Tue 1/9/20	Sun 18/10/20	183	391,426	0 days		100%
191	SUBP-1100		Prepare, submit and approve the multi-part covers			0 days	NA	NA	21 days	Tue 5/5/20	Mon 25/5/20	Tue 5/5/20	Mon 25/5/20	183		0 days		100%
192	**SUBB-1000**		**BIM**			**1205 days**	**Thu 6/2/20**	**Wed 28/2/24**	**1562 days**	**Mon 18/11/19**	**Fri 28/2/25**	**Mon 18/11/19**	**NA**			**178 days**		**27%**
193	SUBB-1010		Prepare, submit and approve the proposal of details of Common data environment (CDE)			48 days	Thu 6/2/20	Wed 1/4/20	37 days	Mon 18/11/19	Wed 1/4/20	Mon 18/11/19	Wed 1/4/20	129,130	194	0 days		100%
194			Prepare and submit BIM submission			1484 days	Thu 6/2/20	Wed 28/2/24	1451 days	Thu 2/4/20	Fri 28/2/25	Thu 2/4/20	NA	193		178 days		25%
195	**C-1000**	*	**Construction Works (Working day)**			**1957 days**	**Mon 18/11/19**	**Thu 27/3/25**	**2138 days**	**Mon 18/11/19**	**Wed 24/9/25**	**Mon 18/11/19**	**NA**			**0 days**		**51%**
196	**CPW-1000**		**Preliminary Works**			**109 days**	**Mon 18/11/19**	**Thu 5/3/20**	**121 days**	**Mon 18/11/19**	**Tue 17/3/20**	**Mon 18/11/19**	**Tue 17/3/20**			**0 days**		**100%**
197	CPW-1000		Initial Survey			24 days	Mon 18/11/19	Sat 14/12/19	10 days	Mon 18/11/19	Thu 28/11/19	Mon 18/11/19	Thu 28/11/19	2	198	0 days		100%
198	CPW-2000		Condition Survey			30 days	Fri 27/12/19	Tue 4/2/20	89 days	Mon 18/11/19	Fri 6/3/20	Mon 18/11/19	Fri 6/3/20	125,197	199,172,173FS+120 days,200	0 days		100%
199	CPW-3000		Installation of Monitoring Markers			26 days	Wed 5/2/20	Thu 5/3/20	78 days	Fri 29/11/19	Thu 5/3/20	Fri 29/11/19	Thu 5/3/20	198		0 days		100%
200	CPW-4000		Tree Felling Works		22, 235	0 days	NA	NA	9 days	Sat 7/3/20	Tue 17/3/20	Sat 7/3/20	Tue 17/3/20	198		0 days		100%
201	**CAR-0000**	*	**Access Road (AR3), B-1**			**193 days**	**Mon 20/1/20**	**Sat 12/9/20**	**238 days**	**Thu 12/12/19**	**Wed 30/9/20**	**Thu 12/12/19**	**Wed 30/9/20**	**4,156**		**0 days**		**100%**
202	CAR-1000		Site setup and clearance wroks		05	28 days	Mon 20/1/20	Mon 24/2/20	38 days	Mon 20/1/20	Fri 6/3/20	Mon 20/1/20	Fri 6/3/20		203	0 days		100%
203	CAR-1001		Awaiting for AECOM instruction for alignment confirmation for road works		055	0 days	NA	NA	5 days	Mon 17/2/20	Thu 12/3/20	Mon 17/2/20	Thu 12/3/20	202	204	0 days		100%
204	CAR-1002		Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07		215-1	0 days	NA	NA	4 days	Thu 21/5/20	Mon 25/5/20	Thu 21/5/20	Mon 25/5/20	203	205	0 days		100%
205	CAR-2000		Drainage and Utilities Works			76 days	Fri 6/3/20	Tue 9/6/20	75 days	Sat 7/3/20	Tue 9/6/20	Sat 7/3/20	Tue 9/6/20	204	206	0 days		100%
206	CAR-2000a		Trimming of Existing Sheet Piles in Access Road AR3		215-2	0 days	NA	NA	20 days	Tue 14/7/20	Wed 5/8/20	Tue 14/7/20	Wed 5/8/20	205	207	0 days		100%
207	CAR-2000b		Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1		215	0 days	NA	NA	7 days	Fri 28/8/20	Fri 4/9/20	Fri 28/8/20	Fri 4/9/20	206	208	0 days		100%
208	CAR-2001		Diversion of Existing Underground Cables in Portion B-1A		036	0 days	NA	NA	172 days	Thu 5/3/20	Wed 30/9/20	Thu 5/3/20	Wed 30/9/20	207	210	0 days		100%
209	CAR-2002		Additional U-channel, beam barrier and footway concrete pavement		055	0 days	NA	NA	60 days	Thu 12/12/19	Wed 26/2/20	Thu 12/12/19	Wed 26/2/20		210	0 days		100%
210	CAR-3000	KD1A	Roadworks			80 days	Wed 10/6/20	Sat 12/9/20	133 days	Fri 24/4/20	Wed 30/9/20	Fri 24/4/20	Wed 30/9/20	126,209,208	42FF	0 days		100%
211	**CIW-0000**	*	**Inlet Works No.1, B-2**			**854 days**	**Mon 6/1/20**	**Mon 21/11/22**	**594 days**	**Tue 26/11/19**	**Thu 25/11/21**	**Tue 26/11/19**	**NA**			**0 days**		**88%**
212	**CIW-1000**		**Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)**			**180 days**	**Mon 6/1/20**	**Fri 14/8/20**	**459 days**	**Tue 26/11/19**	**Wed 16/6/21**	**Tue 26/11/19**	**NA**	**184,123**	**44FF**	**111 days**		**88%**
213	CIW-1100		Utilities scanning to idenify existing UU arrangement			12 days	Mon 6/1/20	Sat 18/1/20	0 days	Fri 13/12/19	Sat 18/1/20	Fri 13/12/19	Sat 18/1/20	158	214SS,216	0 days		100%
214	CIW-1200		Trial pits to locate the collection points			24 days	Mon 6/1/20	Wed 5/2/20	0 days	Mon 6/1/20	Tue 10/3/20	Mon 6/1/20	Tue 10/3/20	158,213SS,124	232,251	0 days		100%
215	**CIW-1300**		**Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works**			**0 days**	**NA**	**NA**	**98 days**	**Wed 11/3/20**	**Sat 11/7/20**	**Wed 11/3/20**	**Sat 11/7/20**			**0 days**		**100%**
216	CIW-1310		Construction of concrete plinth			0 days	NA	NA	24 days	Wed 11/3/20	Wed 8/4/20	Wed 11/3/20	Wed 8/4/20	213	217	0 days		100%
217	CIW-1320		Installation of Deodorizer			0 days	NA	NA	40 days	Thu 9/4/20	Sat 30/5/20	Thu 9/4/20	Sat 30/5/20	216	218	0 days		100%
218	CIW-1330		Testing & commissioning			0 days	NA	NA	15 days	Mon 1/6/20	Wed 17/6/20	Mon 1/6/20	Wed 17/6/20	217	219FS-1 day	0 days		100%
219	CIW-1340		Demolishment of the existing carbon deodorization unit			0 days	NA	NA	20 days	Wed 17/6/20	Sat 11/7/20	Wed 17/6/20	Sat 11/7/20	218FS-1 day		0 days		100%
220	**CIW-1400**		**Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)**			**146 days**	**Thu 6/2/20**	**Mon 3/8/20**	**451 days**	**Mon 9/3/20**	**Mon 13/9/21**	**Mon 9/3/20**	**NA**			**0 days**		**97%**
221	CIW-1405		Joint Initial Survey arrangement with MTRCL			0 days	NA	NA	24 days	Thu 19/11/20	Wed 16/12/20	Thu 19/11/20	Wed 16/12/20		222	0 days		100%
222	CIW-1410		Remedial Works for uncharted sludge Pipe leakage		41	0 days	NA	NA	8 days	Mon 9/3/20	Tue 17/3/20	Mon 9/3/20	Tue 17/3/20	221	223	0 days		100%
223	CIW-1420		Diversion of uncharted DN250 sludge pipe		41	0 days	NA	NA	27 days	Tue 31/3/20	Thu 7/5/20	Tue 31/3/20	Thu 7/5/20	222	230,224,225	0 days		100%
224	CIW-1421		Diversion of uncharted 2' water pipe		24	0 days	NA	NA	9 days	Wed 15/4/20	Fri 24/4/20	Wed 15/4/20	Fri 24/4/20	223	230	0 days		100%
225	CIW-1422		Additional Underground Utility Scanning for existing sludge pipe		32	0 days	NA	NA	1 day	Sat 18/4/20	Sat 18/4/20	Sat 18/4/20	Sat 18/4/20	223		0 days		100%
226	CIW-1423		HV Cable Diversion for Inlet Works		84	0 days	NA	NA	135 days	Sat 10/10/20	Wed 24/3/21	Sat 10/10/20	Wed 24/3/21			0 days		100%
227	CIW-1423a		Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1		236	0 days	NA	NA	268 days	Mon 4/5/20	Wed 24/3/21	Mon 4/5/20	Wed 24/3/21			0 days		100%
228	CIW-1424		Diversion of Existing Sludge Rising Main and Sewerage System		81	0 days	NA	NA	102 days	Mon 28/9/20	Sat 30/1/21	Mon 28/9/20	Sat 30/1/21		307,309,279,280	0 days		100%
229	CIW-1425		Demolition of Deodorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pump Pit		037	0 days	NA	NA	1 day	Fri 28/8/20	Fri 28/8/20	Fri 28/8/20	Fri 28/8/20			0 days		100%
230	CIW-1430		Removal of concrete surround and uncharted sludge pipe		030	0 days	NA	NA	20 days	Fri 24/4/20	Tue 19/5/20	Fri 24/4/20	Tue 19/5/20	223,224	231	0 days		100%
231	CIW-1440		Remedial works for uncharted pipe and unforeseen water seepage		273	0 days	NA	NA	10 days	Fri 8/5/20	Tue 19/5/20	Fri 8/5/20	Tue 19/5/20	230	232,233	0 days		100%
232	**CIW-1450**		**Trench Excavation for 1800mm dia pipeline and manholes**			**146 days**	**Thu 6/2/20**	**Mon 3/8/20**	**238 days**	**Wed 11/3/20**	**Mon 28/12/20**	**Wed 11/3/20**	**Mon 28/12/20**	**214,231**		**0 days**		**100%**
233	CIW-1450a		Sheetpile installation (on hold due to identification of uncharted obstruction)		28	0 days	NA	NA	80 days	Wed 11/3/20	Thu 18/6/20	Wed 11/3/20	Thu 18/6/20	231	234	0 days		100%
234	CIW-1450b		Trench Excavation for 1800mm dia pipeline and manholes			45 days	Thu 6/2/20	Sat 28/3/20	22 days	Thu 18/6/20	Wed 15/7/20	Thu 18/6/20	Wed 15/7/20	233	235,247	0 days		100%
235	CIW-1450c		Identification of uncharted concrete surround and pipes near MHA01		28	0 days	NA	NA	29 days	Thu 16/7/20	Tue 18/8/20	Thu 16/7/20	Tue 18/8/20	234	238,243,247	0 days		100%
236	CIW-1450d		Removal of existing DSD drawpits near IRC & exposure of CLP cables with installation of additional temporary support		215-2	0 days	NA	NA	26 days	Thu 16/7/20	Fri 14/8/20	Thu 16/7/20	Fri 14/8/20			0 days		100%
237	CIW-1450e		Removal of uncharted concrete surround and pipes near MHA01 and Sheetpile installation		(045)	0 days	NA	NA	10 days	Fri 7/8/20	Tue 18/8/20	Fri 7/8/20	Tue 18/8/20		238,243	0 days		100%
238	CIW-1450f		Revised type of pipe bedding between Manholes no. MHA01 and MHA02		096	0 days	NA	NA	6 days	Sat 3/10/20	Fri 9/10/20	Sat 3/10/20	Fri 9/10/20	237,235	239	0 days		100%
239	CIW-1450g		Replace top soil with Grade 200 Rockfill below Formation level of the proposed pipe between MHA01 and MHA02		079	0 days	NA	NA	3 days	Mon 10/8/20	Wed 12/8/20	Mon 10/8/20	Wed 12/8/20	238	241	0 days		100%
240	CIW-1450h		Grade 200 Rockfill in ELS cofferdam of IRC		(161)	0 days	NA	NA	3 days	Wed 23/12/20	Mon 28/12/20	Wed 23/12/20	Mon 28/12/20		241	0 days		100%
241	CIW-1451		Construct M/H MHA01, MHA02, MHA04 and Inlet Reception Chamber			65 days	Mon 30/3/20	Fri 19/6/20	395 days	Wed 20/5/20	Mon 13/9/21	Wed 20/5/20	NA	239,243,242,244,240	283	-135 days		91%
242	CIW-1452		Enlarged size of Manhole MHA02		052	0 days	NA	NA	6 days	Tue 1/9/20	Mon 7/9/20	Tue 1/9/20	Mon 7/9/20		241	0 days		100%
243	CIW-1453		Additional Works for Manhole MHA01 Construction and Pipe Connection to Manhole MHA01		(094) (146)	0 days	NA	NA	160 days	Wed 16/9/20	Wed 31/3/21	Wed 16/9/20	Wed 31/3/21	235,237	241	0 days		100%
244	CIW-1454		Additional Works for IRC and Pipe Connection to IRC from Existing Manhole FMH1004115		(096)	0 days	NA	NA	17 days	Fri 18/9/20	Fri 9/10/20	Fri 18/9/20	Fri 9/10/20		245,247,241	0 days		100%
245	CIW-1455		Removal of left-in sheetpiles at IRC		381	0 days	NA	NA	3 days	Mon 19/10/20	Wed 21/10/20	Mon 19/10/20	Wed 21/10/20	244		0 days		100%
246	CIW-1456		Compliance Test for DN1800 Precast Concrete Pipe		065	0 days	NA	NA	1 day	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20			0 days		100%
247	CIW-1457		Lay 1800mm dia concretre pipe			24 days	Sat 20/6/20	Mon 20/7/20	88 days	Thu 17/9/20	Mon 25/1/21	Thu 17/9/20	Mon 25/1/21	234,235,244	248	0 days		100%
248	CIW-1458		Connection to existing Inlet Chamber			12 days	Tue 21/7/20	Mon 3/8/20	12 days	Tue 26/1/21	Mon 8/2/21	Tue 26/1/21	Mon 8/2/21	247	307,44FF	0 days		100%
249	**CIW-1500**		**Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain**			**150 days**	**Thu 6/2/20**	**Fri 7/8/20**	**594 days**	**Tue 26/11/19**	**Thu 25/11/21**	**Tue 26/11/19**	**NA**			**-99 days**		**94%**
250	**CIW-1510**	**KD1B**	**Diversion of Tank Drain MHD9.5 (approx. 70m CHES1 & CHES2)**			**150 days**	**Thu 6/2/20**	**Fri 7/8/20**	**406 days**	**Tue 26/11/19**	**Mon 12/4/21**	**Tue 26/11/19**	**Sat 10/4/21**	**278**	**307,44FF**	**0 days**		**100%**
251	**CIW-1500a**		**Diversion of Tank Drain MHD9.5 to MHA04 (approx. 70m 675mm dia conrete pipe, 24m DN250 DI leachate rising main, 90m CHES1&S2 DN250 CI)**			150 days	Thu 6/2/20	Fri 7/8/20	**406 days**	**Tue 26/11/19**	**Mon 12/4/21**	**Tue 26/11/19**	**Sat 10/4/21**	**214**		**0 days**		**100%**

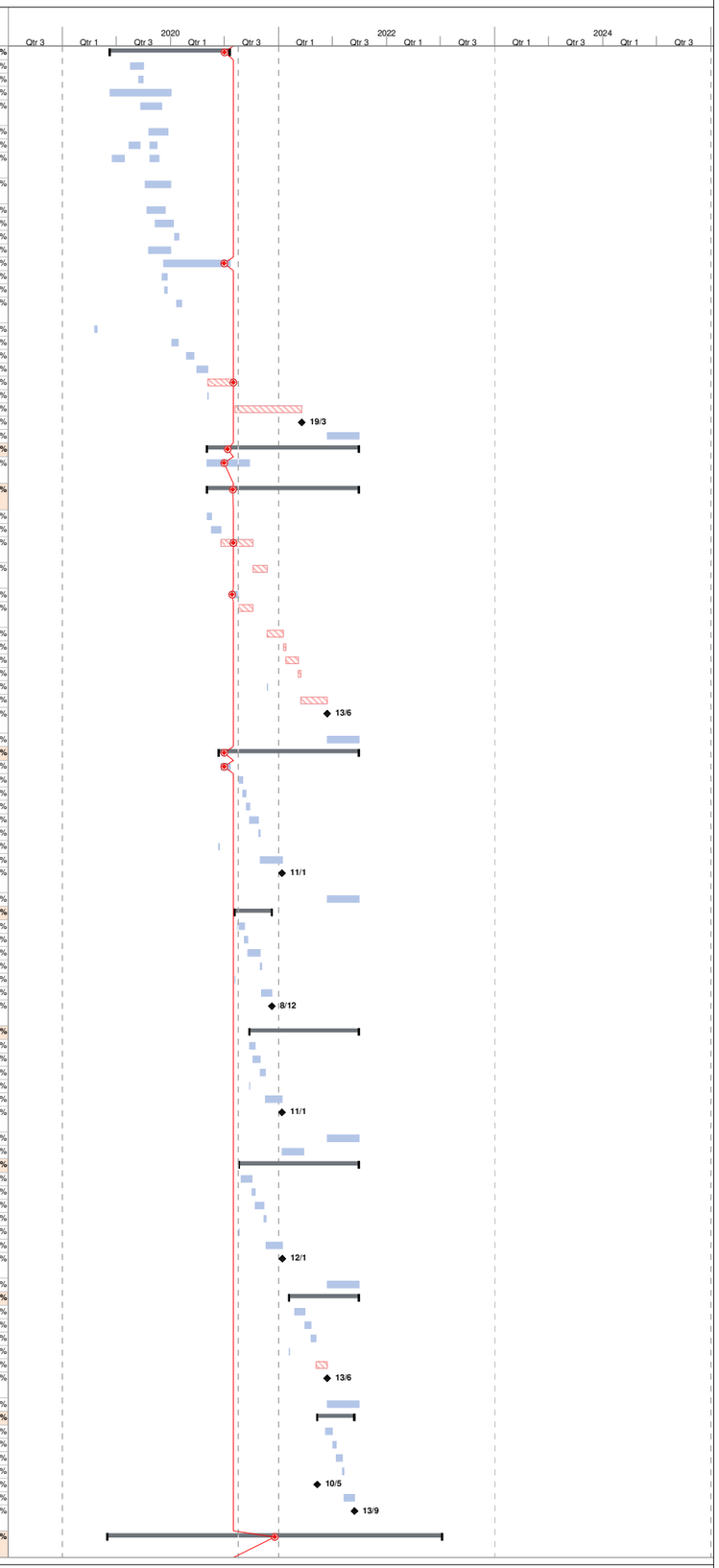


ID	Activity ID	Key Date	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance	% Complete
252	CIW-1500b		Joint Initial Survey arrangement with MTRCL			0 days	NA	NA	158 days	Tue 26/11/19	Wed 10/6/20	Tue 26/11/19	Wed 10/6/20			0 days		100%
253	CIW-1500c		Site Clearance & inspection pit excavation under conforming alignments			0 days	NA	NA	36 days	Fri 12/6/20	Sat 25/7/20	Fri 12/6/20	Sat 25/7/20			0 days		100%
254	**CIW-1511**		**Tank Drain Diversion near MTRCL track**			**0 days**	**NA**	**NA**	**248 days**	**Thu 11/6/20**	**Mon 12/4/21**	**Thu 11/6/20**	**Sat 10/4/21**			**0 days**		**100%**
255	CIW-1511a		Excavation of trial pit near MHD9.5 (TP45 & 47)		040	0 days	NA	NA	12 days	Mon 27/7/20	Sat 8/8/20	Mon 27/7/20	Sat 8/8/20		256,260	0 days		100%
256	CIW-1511b		Uncharted cables found near MTRC track and identification			0 days	NA	NA	1 day	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20	Thu 18/6/20	255		0 days		100%
257	CIW-1511c		Excavation of trial pit near MHD8.5			0 days	NA	NA	5 days	Fri 19/6/20	Wed 24/6/20	Fri 19/6/20	Wed 24/6/20		258	0 days		100%
258	CIW-1511d		Lower the ground surface, opening and additional trial pit (TP38)		(046)	0 days	NA	NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20	257	259	0 days		100%
259	CIW-1511e		Excavation of Trial Pits near Manhole MHA04 and MH09		040	0 days	NA	NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20	258		0 days		100%
260	CIW-1511f		Additional Trial Pit between MHD9.5 and MHA04		040	0 days	NA	NA	25 days	Fri 21/8/20	Fri 18/9/20	Fri 21/8/20	Fri 18/9/20	255		0 days		100%
261	CIW-1511g		Sheetpile installation for MHD9.5			0 days	NA	NA	38 days	Tue 1/9/20	Fri 16/10/20	Tue 1/9/20	Fri 16/10/20			0 days		100%
262	CIW-1511h		Sheetpile installation between MHD9.5 & MHA04			0 days	NA	NA	25 days	Tue 8/9/20	Thu 8/10/20	Tue 8/9/20	Thu 8/10/20			0 days		100%
263	CIW-1511i		UU supporting & ELS works& excavatuib between MHD9.5 & MHA04			0 days	NA	NA	73 days	Wed 7/10/20	Mon 4/1/21	Wed 7/10/20	Mon 4/1/21			0 days		100%
264	CIW-1511j		Unsuit excavated material from MHD9.5 to MHA04		261	0 days	NA	NA	4 days	Fri 20/11/20	Tue 24/11/20	Fri 20/11/20	Tue 24/11/20			0 days		100%
265	CIW-1511k		Revise design of manhole MHD9.5		(167)	0 days	NA	NA	20 days	Thu 7/1/21	Fri 29/1/21	Thu 7/1/21	Fri 29/1/21			0 days		100%
266	CIW-1511l		Break up opening and plugging existing concrete pipe at MHD9.5			0 days	NA	NA	6 days	Mon 18/1/21	Sat 23/1/21	Mon 18/1/21	Sat 23/1/21			0 days		100%
267	CIW-1511l1		Trimming existing concrete pipe at MHD9.5			0 days	NA	NA	13 days	Fri 22/1/21	Fri 5/2/21	Fri 22/1/21	Fri 5/2/21			0 days		100%
268	CIW-1511l2		Construction of manhole MHD9.5			0 days	NA	NA	49 days	Sat 6/2/21	Sat 10/4/21	Sat 6/2/21	Sat 10/4/21			0 days		100%
269	CIW-1511m		Additional work to prevent backflow from MHI1 to MHD9.5		(176)	0 days	NA	NA	9 days	Mon 18/1/21	Wed 27/1/21	Mon 18/1/21	Wed 27/1/21			0 days		100%
270	CIW-1511n		Sewage overflow incident of MHD11		(180)	0 days	NA	NA	9 days	Sat 13/2/21	Thu 25/2/21	Sat 13/2/21	Thu 25/2/21			0 days		100%
271	CIW-1512		Additional Special manhole for tank drain (NCE)			0 days	NA	NA	35 days	Mon 24/8/20	Mon 5/10/20	Mon 24/8/20	Mon 5/10/20		272,273	0 days		100%
272	CIW-1513		Breaking of concrete surround of cables (0.8mx0.8mx70m) (NCE)			0 days	NA	NA	24 days	Tue 8/9/20	Wed 7/10/20	Tue 8/9/20	Wed 7/10/20	271		0 days		100%
273	CIW-1514	KD1B	Construction of tank drain along revised alignment w/ concrete surround		051	0 days	NA	NA	10 days	Tue 5/1/21	Fri 15/1/21	Tue 5/1/21	Fri 15/1/21	271	43FF,307	0 days		100%
274	CIW-1516		Backfilling trench between MHD9.5 & MHA04			0 days	NA	NA	20 days	Sat 16/1/21	Mon 8/2/21	Sat 16/1/21	Mon 8/2/21			0 days		100%
275	**CIW-1520**		**Diversion of Sludge Pipes**			75 days	Tue 21/4/20	Tue 21/7/20	**364 days**	**Mon 11/5/20**	**Thu 29/7/21**	**Mon 11/5/20**	**NA**			**0 days**		**96%**
276	CIW-1520a		Excavation of trial pit and identification of connection point		351	0 days	NA	NA	103 days	Mon 11/5/20	Wed 9/9/20	Mon 11/5/20	Wed 9/9/20		277	0 days		100%
277	CIW-1520b		Trench excavation for twin DN250 sludge pipe ,on hold due to encounter of uncharted sludge pipe		351	75 days	Tue 21/4/20	Tue 21/7/20	4 days	Wed 15/7/20	Sat 18/7/20	Wed 15/7/20	Sat 18/7/20	276	278	0 days		100%
278	CIW-1520c		Additional hole drilling works and identification of connetion point			0 days	NA	NA	53 days	Mon 20/7/20	Fri 18/9/20	Mon 20/7/20	Fri 18/9/20	277	250	0 days		100%
279	CIW-1520d		Temporary diversion of substandard DI 250 Leachate raising main		202	0 days	NA	NA	127 days	Tue 20/10/20	Wed 24/3/21	Tue 20/10/20	Wed 24/3/21	228		0 days		100%
280	CIW-1520e		Protection work for substandard DI 500 tank drain Pipe (near MHD 9.5)		302	0 days	NA	NA	93 days	Wed 18/11/20	Fri 12/3/21	Wed 18/11/20	Fri 12/3/21	228		0 days		100%
281	CIW-1520f		Encounter of uncharted concrete pipe within sheetpile cofferdam at MHA04			0 days	NA	NA	2 days	Tue 10/11/20	Wed 11/11/20	Tue 10/11/20	Wed 11/11/20		282	0 days		100%
282	CIW-1520g		Resumption and construction of sludge pipe construction			0 days	NA	NA	253 days	Sat 19/9/20	Thu 29/7/21	Sat 19/9/20	NA	281	307,44FF	-36 days		91%
283	CIW-1530		Diversion of Leachate Rising Main			60 days	Tue 21/4/20	Fri 3/7/20	60 days	Tue 14/9/21	Thu 25/11/21	NA	NA	241		-135 days		0%
284	**CIW-1600**		**Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes)**			**156 days**	**Thu 6/2/20**	**Fri 14/8/20**	**570 days**	**Tue 26/11/19**	**Thu 28/10/21**	**Tue 26/11/19**	**NA**			**0 days**		**55%**
285	CIW-1610		~~Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs MHD1A, 1B, 1C, 1D & 1E) - realigned~~		87	~~60 days~~	~~Thu 6/2/20~~	~~Mon 20/4/20~~	~~0 days~~	~~Tue 26/11/19~~	~~Tue 26/11/19~~	~~Tue 26/11/19~~	~~Tue 26/11/19~~			0 days		100%
286	~~CIW-1620~~		~~Manholes construction and Pipe laying - omitted~~		87	~~60 days~~	~~Mon 30/3/20~~	~~Sat 13/6/20~~	~~0 days~~	~~Tue 2/6/20~~	~~Tue 2/6/20~~	~~Tue 2/6/20~~	~~Tue 2/6/20~~		~~43FF,291~~	~~0 days~~		~~100%~~
287	CIW-1621		Temporary Diversion of Existing DN200 Filitrate Rising Main		034	0 days	NA	NA	20 days	Sat 1/8/20	Mon 24/8/20	Sat 1/8/20	Mon 24/8/20		288	0 days		100%
288	CIW-1623		Pipeline Diversion Works near Primary Sludge Thickening Tank		(114)	0 days	NA	NA	30 days	Fri 16/4/21	Sat 22/5/21	Fri 16/4/21	Sat 22/5/21	287	289	0 days		100%
289	CIW-1625		Uncharted underground utilities near Proposed MHD5B		0260	0 days	NA	NA	26 days	Mon 24/5/21	Wed 23/6/21	Mon 24/5/21	Wed 23/6/21	288	290,293	0 days		100%
290	CIW-1630		Trench Excavation from M/H (approx. 90m long with M/Hs M1A to M3B)			60 days	Tue 21/4/20	Fri 3/7/20	32 days	Thu 19/3/20	Wed 29/4/20	Thu 19/3/20	Wed 29/4/20	289	291,292	0 days		100%
291	CIW-1640		Manholes construction (M1A, M1B, M2B, M3B) and Pipe laying			25 days	Mon 15/6/20	Wed 15/7/20	12 days	Mon 4/5/20	Sat 16/5/20	Mon 4/5/20	Sat 16/5/20	290,286	43FF	0 days		100%
292	CIW-1650		Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with M/Hs MHD5A & 5B)		(114)	50 days	Thu 16/7/20	Fri 11/9/20	60 days	Wed 2/9/20	Wed 30/12/20	Wed 2/9/20	Wed 30/12/20	290,296,301,303,305		0 days		100%
293	CIW-1660		Provision of Pumping System from Screen to Flume Channel		87	0 days	NA	NA	287 days	Tue 10/11/20	Thu 28/10/21	Tue 10/11/20	NA	289	294	-111 days		75%
294	CIW-1670		Manholes construction (MHD5A, MHD5B, MHD5C) and Pipe laying			45 days	Sat 23/5/20	Thu 16/7/20	293 days	Tue 3/11/20	Thu 28/10/21	Tue 3/11/20	NA	293	44FF	-111 days		8%
295	**CIW-2000**		**Decommission and Demolition of Existing Faciliates and Structures**			**240 days**	**Mon 2/3/20**	**Fri 18/12/20**	**222 days**	**Thu 19/3/20**	**Tue 15/12/20**	**Thu 19/3/20**	**Tue 15/12/20**	**6,122,160**		**0 days**		**100%**
296	**CIW-2100**		**Primary Sludge Thickening Tank No.1 and No.2**			**80 days**	**Mon 2/3/20**	**Tue 9/6/20**	**222 days**	**Thu 19/3/20**	**Tue 15/12/20**	**Thu 19/3/20**	**Tue 15/12/20**		**292**	**0 days**		**100%**
297	CIW-2101		Additional Works for Temporary Diversion of Bypass Pipe near Primary Sludge Thickeners			0 days	NA	NA	45 days	Thu 19/3/20	Sun 17/5/20	Thu 19/3/20	Sun 17/5/20			0 days		100%
298	CIW-2110		Removal of E&M equipment of primary sludge thickening tank			0 days	NA	NA	1 day	Thu 4/6/20	Thu 4/6/20	Thu 4/6/20	Thu 4/6/20		299	0 days		100%
299	CIW-2120		Decommission and Demolition the tank			80 days	Mon 2/3/20	Tue 9/6/20	150 days	Thu 18/6/20	Tue 15/12/20	Thu 18/6/20	Tue 15/12/20	298	301	0 days		100%
300	CIW-2130		Demolition of structure no.2			0 days	NA	NA	24 days	Mon 18/5/20	Mon 22/6/20	Mon 18/5/20	Mon 22/6/20			0 days		100%
301	CIW-2200		Primary Sludge Pump Pit			60 days	Wed 10/6/20	Thu 20/8/20	18 days	Wed 22/7/20	Tue 11/8/20	Wed 22/7/20	Tue 11/8/20	299	302,303,292,304	0 days		100%
302	CIW-2300		Septic Tank			50 days	Fri 21/8/20	Tue 20/10/20	18 days	Wed 12/8/20	Tue 1/9/20	Wed 12/8/20	Tue 1/9/20	301		0 days		100%
303	**CIW-2400**		**Diesel Tank**			**50 days**	**Wed 21/10/20**	**Fri 18/12/20**	**53 days**	**Thu 2/7/20**	**Tue 1/9/20**	**Thu 2/7/20**	**Tue 1/9/20**	**301**	**292**	**0 days**		**100%**
304	CIW-2410		Transfers of Remaining Diesel Fuel of Existing Diesel Tank			0 days	NA	NA	15 days	Thu 2/7/20	Tue 21/7/20	Thu 2/7/20	Tue 21/7/20	301	305	0 days		100%
305	CIW-2420		Demolition of diesel tank			50 days	Wed 21/10/20	Fri 18/12/20	18 days	Wed 12/8/20	Tue 1/9/20	Wed 12/8/20	Tue 1/9/20	304	**292**	0 days		100%
306	**CIW-3000**	*	**Inlet Works No.1 Building (1)**			**569 days**	**Sat 19/12/20**	**Mon 21/11/22**	**747 days**	**Tue 15/9/20**	**Thu 23/3/23**	**Tue 15/9/20**	**NA**	**6**		**748 days**		**18%**
307	CIW-3100		Predrilling (10nrs, 1rigs, 2.5days/drillhole/rig) - stage 1			40 days	Mon 4/1/21	Mon 22/2/21	28 days	Tue 15/9/20	Mon 19/10/20	Tue 15/9/20	Mon 19/10/20	248,250,273,228,282		0 days	1	100%
308	CIW-3100a		Predrilling (22nrs, 1rigs, 2.5days/drillhole/rig) - stage 2			0 days	NA	NA	60 days	Tue 8/12/20	Mon 22/2/21	Tue 8/12/20	Mon 22/2/21			0 days		100%
309	CIW-3200		Pre-bored H piles (188nos, 1.8rigs, 2days/rig/pile)			133 days	Tue 23/2/21	Wed 4/8/21	210 days	Fri 19/2/21	Tue 2/11/21	Fri 19/2/21	NA	228,132	310SS+150 days,311	-34 days	5	63%
310	CIW-3400a		Pile Load Test at stage 1			26 days	Thu 5/8/21	Fri 3/9/21	21 days	Sat 21/8/21	Tue 14/9/21	NA	NA	309SS+150 days	312	83 days		0%
311	CIW-3400b		Pile Load Test at stage 2 & 3			0 days	NA	NA	21 days	Wed 3/11/21	Fri 26/11/21	NA	NA	309	328,313	-34 days		0%
312	CIW-3300a		Sheetpile Installation at Phase C(900sq.m, 1rigs, 50sqm/rig/day)			80 days	Tue 23/3/21	Wed 30/6/21	30 days	Wed 15/9/21	Fri 22/10/21	NA	NA	310	315	83 days		0%
313	CIW-3300b		Sheetpile Installation at Phase B (2300sq.m, 1rigs, 50sqm/rig/day)			0 days	NA	NA	50 days	Sat 27/11/21	Thu 27/1/22	NA	NA	311	316	-34 days		0%
314	CIW-3500		**ELS works**			**77 days**	**Sat 4/9/21**	**Mon 6/12/21**	**157 days**	**Sat 23/10/21**	**Fri 6/5/22**	**NA**	**NA**		**334,165SF,169SF**	**3 days**	**5**	**0%**
315	CIW-3510		Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding (strutting 2 layers, excavate soil 2250 cu.m)			77 days	Fri 4/6/21	Mon 6/12/21	77 days	Sat 23/10/21	Mon 24/1/22	NA	NA	312	320,333	83 days		0%
316	CIW-3520		Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding (strutting 4 layers, excavate soil 11000cu.m)			77 days	Fri 4/6/21	Mon 6/12/21	77 days	Fri 28/1/22	Fri 6/5/22	NA	NA	313	324	-34 days		0%
317	CIW-3590		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Mon 30/8/21	Mon 30/8/21	NA	NA	318SS-3 emons		1211 days		0%
318	CIW-3600		**R.C. Structure works**			**296 days**	**Thu 5/8/21**	**Thu 4/8/22**	**300 days**	**Sat 27/11/21**	**Thu 1/12/22**	**NA**	**NA**		**317SS-3 emons,332**	**-34 days**	**5**	**0%**
319	CIW-3610		**Phase C (Grid G3 to L7)**			**105 days**	**Thu 5/8/21**	**Wed 8/12/21**	**105 days**	**Tue 25/1/22**	**Tue 7/6/22**	**NA**	**NA**			**114 days**		**0%**
320	CIW-3611		Rebar fix and formwork and concreting for the pile cap (G/F) (including ELS demolition works)			40 days	Thu 5/8/21	Mon 20/9/21	40 days	Tue 25/1/22	Tue 15/3/22	NA	NA	315	321	114 days		0%
321	CIW-3612		Rebar fix and formwork and concreting upto +13.45mPD (1/F)			25 days	Tue 21/9/21	Fri 22/10/21	25 days	Wed 16/3/22	Thu 14/4/22	NA	NA	320	322	114 days		0%
322	CIW-3613	KD1C	Rebar fix and formwork and concreting upto +25.80mPD (R/F)			40 days	Sat 23/10/21	Wed 8/12/21	40 days	Tue 19/4/22	Tue 7/6/22	NA	NA	321	44FF,331,524	114 days		0%
323	CIW-3620		**Phase B (Gride A1 to G3)**			**193 days**	**Tue 7/12/21**	**Thu 4/8/22**	**173 days**	**Sat 7/5/22**	**Thu 1/12/22**	**NA**	**NA**			**-34 days**		**0%**
324	CIW-3621		Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level (including ELS demolition works)			54 days	Tue 7/12/21	Mon 14/2/22	54 days	Sat 7/5/22	Tue 12/7/22	NA	NA	316	325	-34 days		0%
325	CIW-3622		Apply waterproofing membrance and backfilling			14 days	Tue 15/2/22	Wed 2/3/22	14 days	Wed 13/7/22	Thu 28/7/22	NA	NA	324,185	326	-34 days		0%
326	CIW-3623	KD1C	Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level			105 days	Thu 3/3/22	Thu 4/8/22	105 days	Fri 29/7/22	Thu 1/12/22	NA	NA	325	331	-34 days		0%
327	CIW-3630		**Phase A (G1 to L3)**			**193 days**	**Tue 7/12/21**	**Thu 4/8/22**	**173 days**	**Sat 27/11/21**	**Sat 2/7/22**	**NA**	**NA**			**93 days**		**0%**
328	CIW-3631		Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level (including ELS demolition works)			54 days	Tue 7/12/21	Mon 14/2/22	54 days	Sat 27/11/21	Fri 4/2/22	NA	NA	311	329	93 days		0%
329	CIW-3632		Apply waterproofing membrance and backfilling			14 days	Tue 15/2/22	Wed 2/3/22	14 days	Sat 5/2/22	Mon 21/2/22	NA	NA	328,185	330	93 days		0%
330	CIW-3633	KD1C	Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level			105 days	Thu 3/3/22	Thu 4/8/22	105 days	Tue 22/2/22	Sat 2/7/22	NA	NA	329	332,44FF,331	93 days		0%
331	CIW-3700	KD1C	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Thu 4/8/22	Thu 4/8/22	0 days	Thu 1/12/22	Thu 1/12/22	NA	NA	330,322,326	44FF	-34 days		0%
332	CIW-3800	SW1	ABWF works + BS works			90 days	Fri 5/8/22	Mon 21/11/22	90 days	Fri 2/12/22	Thu 23/3/23	NA	NA	330,189,141,318	56FF	262 days		0%
333	CIW-3900	KD1D	Process Pipe CHE chainage 0-20 & CHF chainage 0-20			0 days	NA	NA	50 days	Sat 17/12/22	Mon 20/2/23	NA	NA	315,351FF	45FF	0 days		0%
334	CIW-4000	SW2	Remaining sewerage and utilities in Portion B1 & B2			0 days	NA	NA	60 days	Sat 7/5/22	Tue 19/7/22	NA	NA	314	57FF,555	3 days		0%
335	**CPS-0000**	*	**Primary Sedimentation Tanks, B-3 (2)**			**1115 days**	**Mon 18/11/19**	**Wed 23/8/23**	**1115 days**	**Mon 18/11/19**	**Wed 23/8/23**	**Mon 18/11/19**	**NA**	**8**		**139 days**		**44%**
336	CPS-1000		Operation of the Existing Primary sedimentation Tanks			615 days	Mon 18/11/19	Sat 24/7/21	615 days	Mon 18/11/19	Sat 24/7/21	Mon 18/11/19	Sat 24/7/21	2	339,338	0 days		100%
337	CPS-1100		Identification of existing cables near Primary Sedimentation Tank		88	0 days	NA	NA	3 days	Fri 19/2/21	Mon 22/2/21	Fri 19/2/21	Mon 22/2/21			0 days		100%
338	CPS-1200		Removal of residual sludge			0 days	NA	NA	12 days	Mon 26/7/21	Sat 7/8/21	NA	NA	336	339	-62 days		0%
339	CPS-2000		Demolition of existing primary sedimentation tanks no. 1			45 days	Mon 13/12/21	Wed 9/2/22	30 days	Mon 9/8/21	Sat 11/9/21	NA	NA	122,160,162,336,338	342,340	-62 days		0%
340	CPS-2000a		Demolition of existing primary sedimentation tanks no. 2			0 days	NA	NA	25 days	Mon 13/9/21	Wed 13/10/21	NA	NA	339	342	-62 days		0%
341	CPS-3000a		Predrilling (5nrs, 1rigs, 3days/drillhole/rig) - In-advanced stage			0 days	NA	NA	15 days	Thu 8/4/21	Sat 24/4/21	Thu 8/4/21	Sat 24/4/21		343	0 days		100%

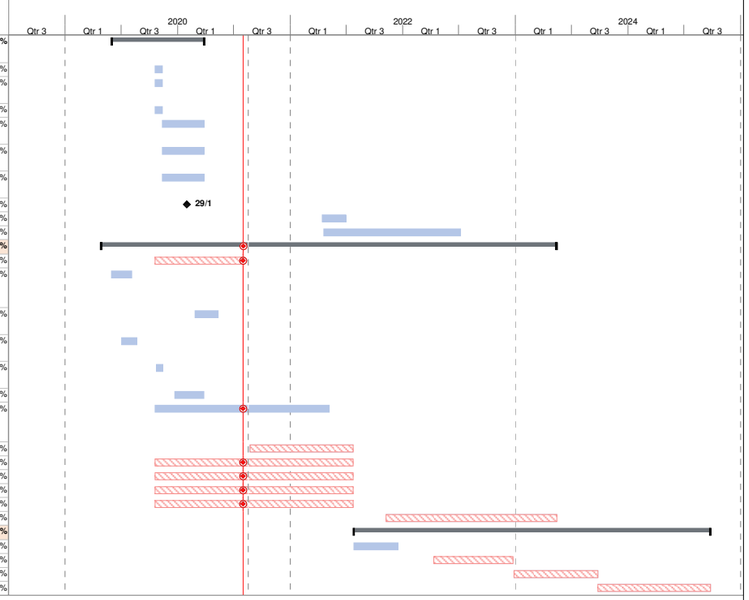


ID	Activity ID	Key Date	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance	% Complete
342	CPS-3000		Predrilling (63nrs, 3rigs, 3days/drillhole/rig)			38 days	Thu 10/2/22	Fri 25/3/22	38 days	Fri 15/10/21	Sat 27/11/21	NA	NA	127,452,339,340	343	-62 days	1	0%
343	CPS-4000		Pre-bored H piles (205nos, 2.5rigs, 2days/pile/rig)			102 days	Sat 26/3/22	Mon 1/8/22	164 days	Mon 29/11/21	Wed 22/6/22	NA	NA	132,453,341,342	344FS-40 days,346,345	-62 days	5	0%
344	CPS-5000		Sheetpile Installation (FSP-II, 3360sq.m, 1rigs, 50sqm/rig/day)			85 days	Wed 25/5/22	Fri 2/9/22	42 days	Thu 5/5/22	Fri 24/6/22	NA	NA	343FS-40 days,133	346,352SS+27 days	-62 days		0%
345	CPS-6000		Pile Load Test			26 days	Tue 2/8/22	Wed 31/8/22	26 days	Thu 23/6/22	Sat 23/7/22	NA	NA	343	346	0 days		0%
346	CPS-7000		ELS works (20000cu.m soil with 2 layers wailing / strutting)			45 days	Sat 3/9/22	Fri 28/10/22	60 days	Mon 25/7/22	Wed 5/10/22	NA	NA	343,135,345,344	347FF-3 emons,348,166SF,170SF	0 days	3	0%
347	CPS-7900		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Thu 7/7/22	Thu 7/7/22	NA	NA	346FF-3 emons	348SS-3 emons	186 days		0%
348	CPS-8000	KD1D	R.C. Structure works (including ELS demolition works)			92 days	Sat 29/10/22	Mon 20/2/23	112 days	Thu 6/10/22	Mon 20/2/23	NA	NA	137,346,347SS-3 emons	349,350,45FF,351FF	0 days	3	0%
349	CPS-9000	KD1D	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Mon 20/2/23	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA	348	45FF	0 days		0%
350	CPS-10000	SW1	ABWF works + BS works			150 days	Tue 21/2/23	Wed 23/8/23	150 days	Tue 21/2/23	Wed 23/8/23	NA	NA	348,189,141	56FF	139 days		0%
351	CPS-11000	KD1D	Flowmeter Chamber no.1			60 days	Tue 21/2/23	Sat 6/5/23	60 days	Tue 6/12/22	Mon 20/2/23	NA	NA	348FF	45FF,333FF	0 days		0%
352	CPS-12000	SW2	Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHI chainage 0-95 & CHJ chianage 0-40 and surrounding utilities			0 days	NA	NA	100 days	Wed 8/6/22	Thu 6/10/22	NA	NA	344SS+27 days	57FF,555	-62 days		0%
353	**CBR-0000**	*	**Bioreactors No.2A & 2B, B-4 (3)**			**1106 days**	**Mon 18/11/19**	**Sat 12/8/23**	**1194 days**	**Mon 18/11/19**	**Mon 27/11/23**	**Mon 18/11/19**	**NA**	**9**		**546 days**		**38%**
354	CBR-1000		Operation of 2no. Existing 800mm air mains over bioreactor no.2			360 days	Mon 18/11/19	Wed 11/11/20	292 days	Mon 18/11/19	Wed 11/11/20	Mon 18/11/19	Wed 11/11/20	2		0 days		100%
355	CBR-2000		Construction of Removable Steel Shutter in the Common Channel of BR2 and 3		67	0 days	NA	NA	86 days	Thu 1/10/20	Fri 15/1/21	Thu 1/10/20	Fri 15/1/21	144	365	0 days		100%
356	CBR-4100		Take Down E&M Equipment & cables in Bioreactor BR2 and Return to DSD		95	0 days	NA	NA	90 days	Thu 15/10/20	Mon 1/2/21	Thu 15/10/20	Mon 1/2/21		366	0 days		100%
357	CBR-4200		Installation of monitoring points before demolition of BR2		219	0 days	NA	NA	5 days	Wed 27/1/21	Mon 1/2/21	Wed 27/1/21	Mon 1/2/21	363	358	0 days		100%
358	CBR-4300		Condition Survey for BR2			0 days	NA	NA	1 day	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	357	366	0 days		100%
359	**CBR-5000**		**Demolition of existing bioreactor no.2**			**60 days**	**Wed 3/2/21**	**Tue 20/4/21**	**98 days**	**Tue 10/11/20**	**Wed 10/3/21**	**Tue 10/11/20**	**Wed 10/3/21**	**122,162**		**0 days**		**100%**
360	CBR-5100		Identification and removal of existing cables on air main pipe bridge		210	0 days	NA	NA	35 days	Tue 10/11/20	Sat 19/12/20	Tue 10/11/20	Sat 19/12/20		361,365	0 days		100%
361	CBR-5300		Plugging and demolition of existing DN800 air main			0 days	NA	NA	5 days	Mon 28/12/20	Sat 2/1/21	Mon 28/12/20	Sat 2/1/21	360		0 days		100%
362	CBR-5200		Diversion of existing lighting cable and Earthing ducts_stage 1		264	0 days	NA	NA	43 days	Fri 4/12/20	Tue 26/1/21	Fri 4/12/20	Tue 26/1/21	363	366	0 days		100%
363	CBR-5400		Overflow incident from BR1 to BR2 works area no.1 (Dec 2020)		285	0 days	NA	NA	33 days	Fri 18/12/20	Thu 28/1/21	Fri 18/12/20	Thu 28/1/21	364	357,362	0 days		100%
364	CBR-5410		Overflow incident from BR1 to BR2 works area (Feb 2021)		340	0 days	NA	NA	8 days	Tue 16/2/21	Wed 24/2/21	Tue 16/2/21	Wed 24/2/21	365	366,363	0 days		100%
365	CBR-3000		Construction of Isolation Wall & stoplog in common channel of BR2 & BR3		277	0 days	NA	NA	43 days	Sat 16/1/21	Wed 10/3/21	Sat 16/1/21	Wed 10/3/21	355,360	364	0 days		100%
366	CBR-5500		Demolition of existing pipe bridge, partition wall and base slab (Stage 1)			30 days	Wed 3/2/21	Fri 12/3/21	26 days	Tue 2/2/21	Sat 6/3/21	Tue 2/2/21	Sat 6/3/21	362,358,364,356	367SS,368	0 days		100%
367	CBR-5520		Removal of additional concrete infill within the partition walls		(174)	0 days	NA	NA	26 days	Tue 2/2/21	Sat 6/3/21	Tue 2/2/21	Sat 6/3/21	366SS	368	0 days		100%
368	CBR-5900		Construction of precautionary measures (i.e. isolation wall)		322	0 days	NA	NA	2 days	Tue 9/3/21	Wed 10/3/21	Tue 9/3/21	Wed 10/3/21	366,367	369,371	0 days		100%
369	CBR-5905		Construction of precautionary measures (i.e. bund wall)		305	0 days	NA	NA	3 days	Thu 15/4/21	Sat 17/4/21	Thu 15/4/21	Sat 17/4/21	368		0 days		100%
370	CBR-5910		Removal of abandoned DN250 air pipe		209	0 days	NA	NA	6 days	Tue 20/4/21	Mon 26/4/21	Tue 20/4/21	Mon 26/4/21			0 days		100%
371	CBR-6000		Predrilling (33nrs, 3rigs, 2days/drillhole/rig)_stage 1			44 days	Wed 21/4/21	Sat 12/6/21	44 days	Mon 1/3/21	Wed 5/5/21	Mon 1/3/21	Wed 5/5/21	368	372	0 days	1	100%
372	CBR-7000		Pre-bored H piles (113nos, 2rigs, 2days/pile/rig)_stage 1			113 days	Tue 15/6/21	Thu 18/11/21	113 days	Thu 6/5/21	Fri 17/9/21	Thu 6/5/21	NA	371	382SS+30 days,377SS+45 days,38	1 day	5	41%
373	CBR-7100		**External works between BR2 and MFB2**			**0 days**	**NA**	**NA**	**217 days**	**Wed 30/6/21**	**Mon 21/3/22**	**Wed 30/6/21**	**NA**			**1046 days**		**9%**
374	CBR-7110		DN700 (CHER)RAS Diversion			0 days	NA	NA	45 days	Wed 30/6/21	Sat 21/8/21	Wed 30/6/21	NA	372SS+45 days	375	1212 days		2%
375	CBR-7120		Temporary vehicle diversion for RAS operation			0 days	NA	NA	6 days	Mon 23/8/21	Sat 28/8/21	NA	NA	374		1212 days		0%
376	CBR-7130		**DN600 Temporary Sewage diversion**			**0 days**	**NA**	**NA**	**120 days**	**Wed 30/6/21**	**Sat 20/11/21**	**Wed 30/6/21**	**NA**			**-45 days**		**18%**
377	CBR-7131		2nos. Manhole Construction (MHTD1 and MHTD2)		204, 353	0 days	NA	NA	75 days	Wed 30/6/21	Mon 27/9/21	Wed 30/6/21	NA	372SS+45 days	378FS-30 days	-88 days		36%
378	CBR-7132		Existing DN600 tank drain diversion		204, 353	45 days	NA	NA	75 days	Mon 23/8/21	Sat 20/11/21	NA	NA	377FS-30 days	379	-88 days		0%
379	CBR-7140		Demolition of abandoned DN600 pipe and existing surrounded wall & channel of BR2		353, 336	30 days	NA	NA	45 days	Mon 22/11/21	Sat 15/1/22	NA	NA	378	380	-88 days		0%
380	CBR-7150		Pre-drilling(3nr.) & Pre-bored H piles (20nrs, 1rig, 2days/drillhole/rig)_stage 2A			26 days	NA	NA	26 days	Mon 17/1/22	Fri 18/2/22	NA	NA	379	381	-88 days		0%
381	CBR-7160		Pile load test			26 days	NA	NA	26 days	Sat 19/2/22	Mon 21/3/22	NA	NA	380,386	389,388	-88 days		0%
382	CBR-7200		**External works between BR2 and PST**			**0 days**	**NA**	**NA**	**141 days**	**Wed 30/6/21**	**Wed 15/12/21**	**Wed 30/6/21**	**NA**	**372SS+30 days**		**-38 days**		**19%**
383	CBR-7210		Demolition of existing DN1200. DN900 and DN500 pipe (w/ ELS works)		91	0 days	NA	NA	75 days	Wed 30/6/21	Mon 27/9/21	Wed 30/6/21	NA	372SS+45 days	384	-38 days		36%
384	CBR-7220		Diversion of existing lighting cable and Earthing ducts (w/ ELS)		264	0 days	NA	NA	30 days	Tue 28/9/21	Wed 3/11/21	NA	NA	383	385	-38 days		0%
385	CBR-7230		Demolition of existing side wall		336	0 days	NA	NA	12 days	Thu 4/11/21	Wed 17/11/21	NA	NA	384	386	-38 days		0%
386	CBR-7240		Pre-bored H piles (24nrs, 2rig, 2days/drillhole/rig)_stage 2B			24 days	NA	NA	24 days	Thu 18/11/21	Wed 15/12/21	NA	NA	385	381	-38 days		0%
387	CBR-7340		Demolition of existing side wall between BR2 & BR3 and baseslab			0 days	NA	NA	60 days	Sat 18/9/21	Tue 30/11/21	NA	NA	372	388	1 day		0%
388	CBR-8000		Sheetpile Installation (3000sq.m, 1rigs, 50sqm/rig/day)			60 days	Wed 8/9/21	Fri 19/11/21	60 days	Tue 22/3/22	Tue 7/6/22	NA	NA	381,387	389	-88 days		0%
389	CBR-10000		ELS works (18100cu.m soil with 4 layers wailing / strutting)			125 days	Mon 20/12/21	Fri 27/5/22	80 days	Wed 8/6/22	Fri 9/9/22	NA	NA	135,381,388	391,390FF-3 emons,399SS+46 day	-88 days	3	0%
390	CBR-10900		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Sat 11/6/22	Sat 11/6/22	NA	NA	389FF-3 emons	391SS-3 emons	168 days		0%
391	CBR-11000	KD1E	R.C. Structure works (including ELS demolition works)			180 days	Sat 28/5/22	Sat 31/12/22	180 days	Sat 10/9/22	Sat 22/4/23	NA	NA	138,186,187,190,188,389,390SS-3 emons	398,46FF,397,393FF,394SS+25 da	-88 days	5	0%
392		KD1E	Process Pipe CHO chainage 65-140			0 days	NA	NA	60 days	Wed 8/2/23	Sat 22/4/23	NA	NA	391FF	46FF	-88 days		0%
393	CBR-11020	KD1E	Additional backfill works after end wall construction at BR2 common channel		277	0 days	NA	NA	30 days	Wed 15/3/23	Sat 22/4/23	NA	NA	391FF	46FF	-88 days		0%
394	CBR-13000	KD1E	Flowmeter no. 2-4			180 days	2023/1/3	2023/8/12	60 days	Thu 13/10/22	Wed 21/12/22	NA	NA	391SS+25 days	395FS-13 days	-88 days		0%
395	CBR-14000	KD1E	Gate Valve Chamber no.1-3			180 days	2023/1/3	2023/8/12	60 days	Wed 7/12/22	Tue 21/2/23	NA	NA	394FS-13 days	396FS-12 days	-88 days		0%
396	CBR-15000	KD1E	Plug Valve Chamber no.1-2			180 days	2023/1/3	2023/8/12	60 days	Wed 8/2/23	Sat 22/4/23	NA	NA	395FS-12 days	46FF	-88 days		0%
397	CBR-12000	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	0 days	Sat 22/4/23	Sat 22/4/23	NA	NA	391	46FF	-88 days		0%
398	CBR-16000	SW1	ABWF works + BS works			180 days	Tue 3/1/23	Sat 12/8/23	180 days	Mon 24/4/23	Mon 27/11/23	NA	NA	391,189,141	56FF	60 days		0%
399	CBR-17000	SW2	Process Pipe CHQ chainage 65-170, CHP chainage 60-130, CHL chainage 0-35 & CHK chianage 0-50 and surrounding utilities			0 days	NA	NA	80 days	Tue 2/8/22	Sat 5/11/22	NA	NA	389SS+46 days	57FF,555	-88 days		0%
400	**CMF-0000**	*	**Membrane Facilities Building, B-5**			**941 days**	**Mon 6/1/20**	**Thu 9/3/23**	**1133 days**	**Mon 18/11/19**	**Wed 13/9/23**	**Mon 18/11/19**	**NA**	**2**		**121 days**		**45%**
401			Operation of existing Final Sedimentation Tanks no.3 & 4		26	0 days	NA	NA	98 days	Mon 18/11/19	Tue 17/3/20	Mon 18/11/19	Tue 17/3/20	2		0 days		100%
402	**CMF-1000**		**Demolition of existing final sedimentation tanks no. 3 & 4**			**14 days**	**Mon 6/1/20**	**Tue 21/1/20**	**340 days**	**Mon 6/1/20**	**Sun 28/2/21**	**Mon 6/1/20**	**Sun 28/2/21**	**160,122,10**		**0 days**		**100%**
403	CMF-1100		Confirmation of Decommission Schedule	68	30	0 days	NA	NA	58 days	Mon 6/1/20	Mon 16/3/20	Mon 6/1/20	Mon 16/3/20		404	0 days		100%
404	CMF-1200		Provision of new submersed pump	68	26	0 days	NA	NA	27 days	Wed 4/3/20	Fri 3/4/20	Wed 4/3/20	Fri 3/4/20	403	405	0 days		100%
405	CMF-1205		Assistant to decommissioning of Final Sedimentation Tank No. 3 and 4	68	7	0 days	NA	NA	14 days	Wed 4/3/20	Fri 3/4/20	Wed 4/3/20	Fri 3/4/20	404	406	0 days		100%
406	CMF-1300		Additional dismantling works to retain specified electrical and mechanical equipment	75	(013)	0 days	NA	NA	21 days	Tue 7/4/20	Wed 6/5/20	Tue 7/4/20	Wed 6/5/20	405	407	0 days		100%
407	CMF-1400		Additional pluging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber	76, 77, 144	(015)	0 days	NA	NA	70 days	Mon 8/6/20	Sat 29/8/20	Mon 8/6/20	Sat 29/8/20	406	408	0 days		100%
408	CMF-1500		Diversion of wash water main	76, 77	032	0 days	NA	NA	21 days	Mon 15/6/20	Fri 10/7/20	Mon 15/6/20	Fri 10/7/20	407	409	0 days		100%
409	CMF-1600		Isolation wall for RAS Channel No.1	76, 77	035	0 days	NA	NA	40 days	Mon 1/6/20	Sat 18/7/20	Mon 1/6/20	Sat 18/7/20	408	413	0 days		100%
410	CMF-1710		Removal of DN1400 Bioreactor No. 2 Effluent Pipe		043	0 days	NA	NA	8 days	Fri 19/2/21	Sun 28/2/21	Fri 19/2/21	Sun 28/2/21			0 days		100%
411	CMF-1800		Exposed and disconnet uncharted existing cable between FST3 and FST 4	77	038	0 days	NA	NA	20 days	Thu 2/7/20	Fri 24/7/20	Thu 2/7/20	Fri 24/7/20			0 days		100%
412	CMF-1110		Demolition of structure no. 3 & 4	68, 75, 76, 77, 144		14 days	Mon 6/1/20	Tue 21/1/20	122 days	Wed 1/4/20	Sat 29/8/20	Wed 1/4/20	Sat 29/8/20		414	0 days		100%
413	CMF-1900		Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1	212	060	0 days	NA	NA	23 days	Mon 31/8/20	Fri 25/9/20	Mon 31/8/20	Fri 25/9/20	409	415	0 days		100%
414	CMF-2000		Predrilling (83nrs, 4rigs, 2.5days/drillhole/rig)	144, 212	120	42 days	Sat 6/6/20	Mon 27/7/20	31 days	Mon 10/8/20	Mon 14/9/20	Mon 10/8/20	Mon 14/9/20	127,412	415	0 days	1	100%
415	CMF-3000		Pre-bored H piles (171nos, 2rigs, 1.5days/pile/rig) [Extended working hours 0700-1900 & shortern pile length]	212, 308, 309	120	140 days	Tue 28/7/20	Wed 13/1/21	96 days	Mon 28/9/20	Sat 23/1/21	Mon 28/9/20	Sat 23/1/21	414,132,413	416,417	0 days	5	100%
416	CMF-3100		Change of Layout of Basement of MFB no. 2		(102)	0 days	NA	NA	17 days	Tue 3/11/20	Sat 21/11/20	Tue 3/11/20	Sat 21/11/20	415		0 days		100%
417	CMF-4000		Pile Load Test			25 days	Thu 14/1/21	Tue 16/2/21	19 days	Mon 4/1/21	Mon 25/1/21	Mon 4/1/21	Mon 25/1/21	415	421,418	0 days		100%
418	CMF-5000		Installation of sheetpile [with pre-boring]		120	40 days	Wed 22/1/20	Wed 11/3/20	120 days	Mon 28/12/20	Thu 24/6/21	Mon 28/12/20	Thu 24/6/21	417	421	0 days		100%
419	**CMF-6000**		**ELS works**			**169 days**	**Wed 17/2/21**	**Thu 9/9/21**	**188 days**	**Fri 25/6/21**	**Thu 10/2/22**	**Fri 25/6/21**	**NA**	**10**	**424FF-3 emons**	**-87 days**	**5**	**22%**
420	**CMF-6100**		**Pharse A (A1 to N6) - Excavation to -9mPD and blinding**		**45**	**169 days**	**Wed 17/2/21**	**Thu 9/9/21**	**188 days**	**Fri 25/6/21**	**Thu 10/2/22**	**Fri 25/6/21**	**NA**		**423SS**	**-100 days**		**16%**
421	CMF-6110		Soil Excavation [Extended working hours 0700-1900 & reduction of excavation volume]		120, 207	169 days	Wed 17/2/21	Thu 9/9/21	88 days	Fri 25/6/21	Fri 8/10/21	Fri 25/6/21	NA	418,135,417	422	-117 days		35%
422	CMF-6120		Additional Rock Excavation [2200 cu.m, 7.5cu.m/group x 2]		120, 207	0 days	NA	NA	100 days	Sat 9/10/21	Thu 10/2/22	NA	NA	421	426	-117 days		0%
423	CMF-6200		Pharse B (A6 to N10) - Excavation to -1.9mPD and blinding			169 days	Wed 17/2/21	Thu 9/9/21	100 days	Fri 25/6/21	Sat 23/10/21	Fri 25/6/21	NA	420SS	427,433	1 day		31%
424	CMF-6900		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Fri 12/11/21	Fri 12/11/21	NA	NA	419FF-3 emons	425SS-3 emons	216 days		0%
425	**CMF-7000**		**RC Structure works**			**232 days**	**Fri 10/9/21**	**Sat 25/6/22**	**262 days**	**Fri 11/2/22**	**Wed 28/12/22**	**NA**	**NA**	**10,424SS-3 emons**		**-117 days**	**5**	**0%**
426	CMF-7100	KD1F	Phase A - from B2 - Level 1 (including ELS demolition works)			112 days	Fri 10/9/21	Tue 25/1/22	112 days	Fri 11/2/22	Wed 29/6/22	NA	NA	139,186,187,190,188,422	427SS+30 days,428,430	-117 days		0%
427	CMF-7110	KD1F	Phase B - from B1 - Level 1 (including ELS demolition works)			112 days	Fri 10/9/21	Tue 25/1/22	112 days	Fri 18/3/22	Thu 4/8/22	NA	NA	426SS+30 days,423	429,430	-117 days		0%
428	CMF-7120	KD1G	Phase A - from Level 1 to Roof			120 days	Wed 26/1/22	Sat 25/6/22	120 days	Thu 30/6/22	Mon 21/11/22	NA	NA	427	431,432	-87 days		0%
429	CMF-7130	KD1G	Phase B - from Level 1 to Roof			120 days	Wed 26/1/22	Sat 25/6/22	120 days	Fri 5/8/22	Wed 28/12/22	NA	NA	427	431,432	-117 days		0%
430	CMF-8000	KD1F	Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from B2-level 1)			0 days	Tue 25/1/22	Tue 25/1/22	0 days	Thu 4/8/22	Thu 4/8/22	NA	NA	426,427	47FF	-115 days		0%
431	CMF-9000	KD1G	Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from Level to Roof)			0 days	Sat 25/6/22	Sat 25/6/22	0 days	Wed 28/12/22	Wed 28/12/22	NA	NA	428,429	48FF	-117 days		0%
432	CMF-10000	SW1	ABWF works + BS works			210 days	Mon 27/6/22	Thu 9/3/23	210 days	Thu 29/12/22	Wed 13/9/23	NA	NA	189,428,429	56FF	121 days		0%
433	CMF-11000	SW2	Process Pipe CHQ chainage 0-65, CHM chainage 0-120, CHN chainage 0-125, CHO chainage 0-65, CHP chainage 0-60 & CHV chainge 0-50 and surrounding utilities			0 days	NA	NA	176 days	Mon 25/10/21	Tue 31/5/22	NA	NA	423	57FF,555	43 days		0%
434	**CSA-0000**	*	**SAS Pumping Station, B-6**			**455 days**	**Wed 20/5/20**	**Thu 25/11/21**	**728 days**	**Sat 18/4/20**	**Wed 28/9/22**	**Sat 18/4/20**	**NA**	**11**		**891 days**		**78%**

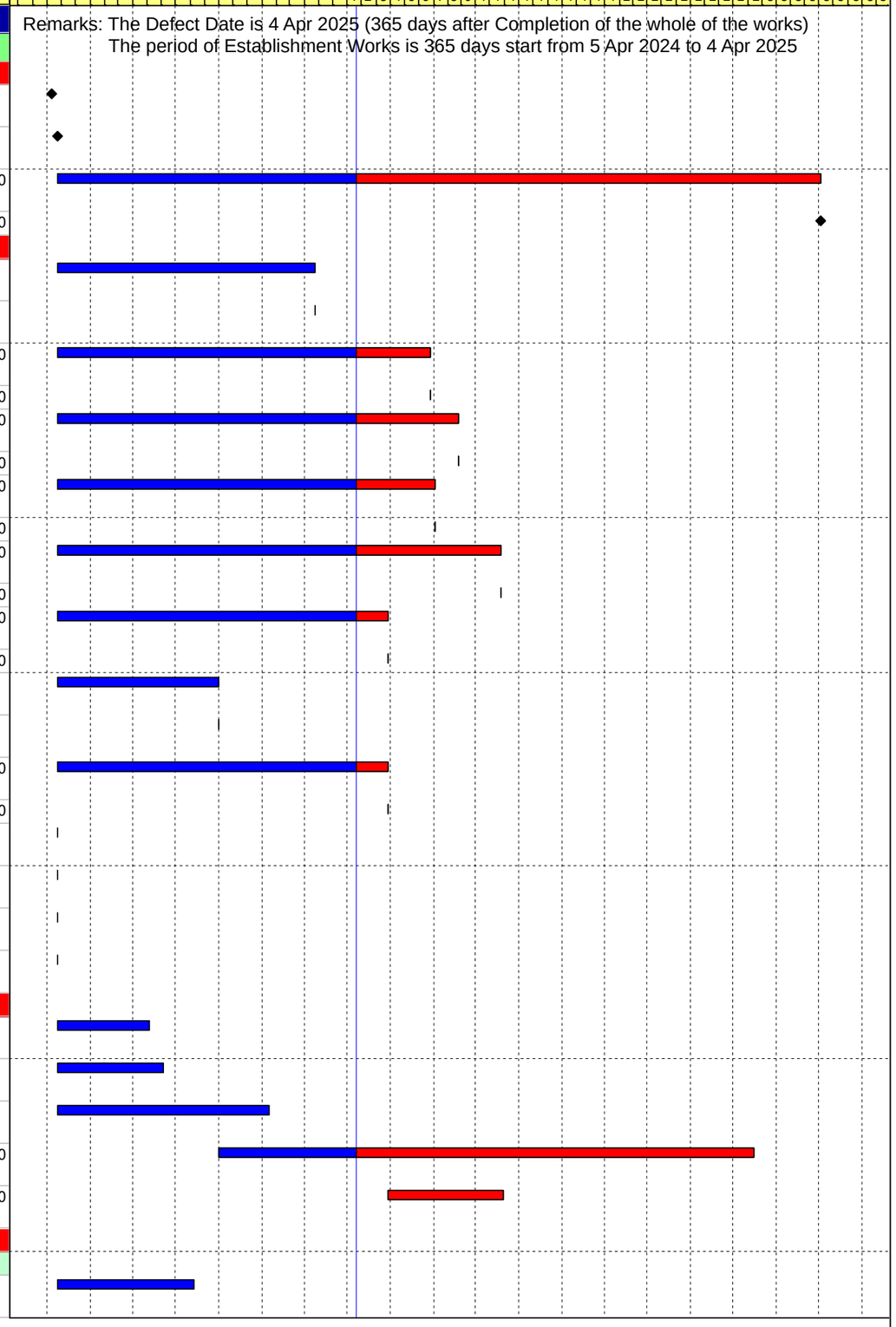
ID	Activity ID	Key Date	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance	% Complete
435	**CSA-1000**		**Additional Preliminary Works**			**0 days**	**NA**	**NA**	**330 days**	**Tue 9/6/20**	**Mon 19/7/21**	**Tue 9/6/20**	**NA**			**1247 days**		**98%**
436	CSA-1020		Expose and abandon existing electric cable & trial pits		78	0 days	NA	NA	39 days	Mon 17/8/20	Wed 30/9/20	Mon 17/8/20	Wed 30/9/20			0 days		100%
437	CSA-1030		Installation of standpipes		71	0 days	NA	NA	13 days	Mon 14/9/20	Mon 28/9/20	Mon 14/9/20	Mon 28/9/20			0 days		100%
438	CSA-1100		Diversion of Existing SAS Rising Main near SAS Pumping Station	68, 75, 76	69	0 days	NA	NA	170 days	Tue 9/6/20	Thu 31/12/20	Tue 9/6/20	Thu 31/12/20		453	0 days		100%
439	CSA-1200		Decommission of exisiting power and signal systems in leachate Pump station switch room	312, 309, 310	74	0 days	NA	NA	58 days	Mon 21/9/20	Mon 30/11/20	Mon 21/9/20	Mon 30/11/20	146	453	0 days		100%
440	CSA-1300		Construction of Cable trough for CLP 11kv Cable Diversion	75, 76, 77, 161		0 days	NA	NA	54 days	Mon 19/10/20	Mon 21/12/20	Mon 19/10/20	Mon 21/12/20		453	0 days		100%
441	CSA-1400		Demolition of Existing Pillar box and its concrete plinth	144, 212, 30	30	0 days	NA	NA	53 days	Wed 12/8/20	Sat 14/11/20	Wed 12/8/20	Sat 14/11/20	149	453	0 days		100%
442	CSA-1500		Excavation to locate existing underground cble near SAS Pump Station		78	0 days	NA	NA	59 days	Wed 17/6/20	Sat 21/11/20	Wed 17/6/20	Sat 21/11/20		453	0 days		100%
443	CSA-1600		Diversion of Existing DN80 Permeate Rising Main near SAS Pumping station		89	0 days	NA	NA	72 days	Tue 6/10/20	Thu 31/12/20	Tue 6/10/20	Thu 31/12/20		453	0 days		100%
444	CSA-1800		Trench Excavation near SAS for CLP diversion of 11kV cable	309, 310	97	0 days	NA	NA	53 days	Mon 12/10/20	Sat 12/12/20	Mon 12/10/20	Sat 12/12/20		453	0 days		100%
445	CSA-1700		Relocation of Oil Interceptor Near Existing Compressor House	144, 212, 30	70	0 days	NA	NA	50 days	Mon 9/11/20	Fri 8/1/21	Mon 9/11/20	Fri 8/1/21		453	0 days		100%
446	CSA-1900		Diversion of pumping system sewerage	212, 309, 31	83	0 days	NA	NA	36 days	Wed 13/1/21	Fri 26/2/21	Wed 13/1/21	Fri 26/2/21	151	455,453,447	0 days		100%
447	CSA-1910		Diversion of Existing copper pipe near proposed SAS pumping station	309, 310	225	0 days	NA	NA	61 days	Mon 19/10/20	Thu 31/12/20	Mon 19/10/20	Thu 31/12/20	446	453	0 days		100%
448	CSA-1920		Pipework of proposed SAS Pumping Station - 13 nos. of puddles		221	0 days	NA	NA	180 days	Mon 7/12/20	Mon 19/7/21	Mon 7/12/20	NA			1247 days		92%
449	CSA-1930		Additional DN150 Rising main for SAS		220/69	0 days	NA	NA	15 days	Wed 2/12/20	Fri 18/12/20	Wed 2/12/20	Fri 18/12/20			0 days		100%
450	CSA-1940		Additional DN90 PE pipe diversion		89	0 days	NA	NA	7 days	Fri 11/12/20	Fri 18/12/20	Fri 11/12/20	Fri 18/12/20			0 days		100%
451	CSA-1970		Additional diversion of existing sludge rising main and sewerage system		81	0 days	NA	NA	15 days	Thu 21/1/21	Sat 6/2/21	Thu 21/1/21	Sat 6/2/21			0 days		100%
452	CSA-2000		Predrilling (4nrs, 1rig, 4days/drillhole/rig)	68		16 days	Wed 20/5/20	Sat 6/6/20	7 days	Sat 18/4/20	Sat 25/4/20	Sat 18/4/20	Sat 25/4/20	127	342,453	0 days		100%
453	CSA-3000		Pre-bored H piles (12nos, 1rigs, 4days/pile/rig)			60 days	Mon 8/6/20	Tue 18/8/20	19 days	Mon 4/1/21	Mon 25/1/21	Mon 4/1/21	Mon 25/1/21	132,452,148,438,439,441,442,443,445,44	343,454	0 days	2	100%
454	CSA-4000		Pile Load Test			21 days	Wed 19/8/20	Thu 17/9/20	22 days	Tue 23/2/21	Fri 19/3/21	Tue 23/2/21	Fri 19/3/21	453	456,455	0 days		100%
455	CSA-5000		Sheetpile Installation (FSP-II, 690sq.m, 40sqm/day)			28 days	Wed 19/8/20	Sat 19/9/20	28 days	Tue 30/3/21	Wed 5/5/21	Tue 30/3/21	Wed 5/5/21	133,454,446	456	0 days		100%
456	CSA-6000		ELS works (1300cu.m soil with 2 layers wailing / strutting)			75 days	Mon 21/9/20	Wed 19/2/20	75 days	Thu 6/5/21	Wed 4/8/21	Thu 6/5/21	NA	455,135,454	458,457FF-3 emons	-121 days	2	96%
457	CSA-6900		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Thu 6/5/21	Thu 6/5/21	Thu 6/5/21	Thu 6/5/21	456FF-3 emons	458SS-3 emons	0 days		100%
458	CSA-7000	KD1H	R.C. Structure works (including ELS demolition works)			186 days	Mon 21/12/20	Mon 9/8/21	186 days	Thu 5/8/21	Sat 19/3/22	NA	NA	456,457SS-3 emons	459,460,49FF	-121 days	5	0%
459	CSA-8000	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	0 days	Sat 19/3/22	Sat 19/3/22	NA	NA	458	49FF	-121 days		0%
460	CSA-9000	SW1	ABWF works + BS works			90 days	Tue 10/8/21	Thu 25/11/21	90 days	Tue 14/6/22	Wed 28/9/22	NA	NA	458,189,141,522SS	56FF	405 days		0%
461	**CAS-0000**	*	**Ancillary Structures, B-7**			**503 days**	**Mon 7/9/20**	**Sat 21/5/22**	**420 days**	**Mon 3/5/21**	**Wed 28/9/22**	**Mon 3/5/21**	**NA**	**12**		**891 days**		**7%**
462	**CAS-1000**		Demolition of Existing Faciliates and Structures (leachate pump pit & pumping station)			120 days	Mon 7/9/20	Sat 30/1/21	120 days	Mon 3/5/21	Thu 23/9/21	Mon 3/5/21	NA	122,160,162	497	48 days		41%
463	**CFS-1000**	*	**Fire Services Sprinkler Pumping Room & Emergency Generator House (9)+(10)****		**301**	**220 days**	**Sat 10/4/21**	**Sun 3/1/21**	**419 days**	**Tue 4/5/21**	**Wed 28/9/22**	**Tue 4/5/21**	**NA**			**405 days**		**14%**
464	CFS-1000		Water Sampling and Testing for existing effluent pump pit		384	0 days	NA	NA	12 days	Tue 4/5/21	Mon 17/5/21	Tue 4/5/21	Mon 17/5/21		465	0 days		100%
465	CFS-1150		Identification, decommission and demolition of the existing kiosk		86	0 days	NA	NA	26 days	Tue 18/5/21	Fri 18/6/21	Tue 18/5/21	Fri 18/6/21	464	466,479	0 days		100%
466	CFS-1100		Provision of Flowmeter chamber, gate valve chamber and associated seweage		85	0 days	NA	NA	90 days	Sat 19/6/21	Tue 5/10/21	Sat 19/6/21	NA	465	467,469FF	-101 days		40%
467	CFS-1200		Decommission and demolistion of the existing pump pit and associated sewerage manholes and pipes		86	0 days	NA	NA	40 days	Wed 6/10/21	Mon 22/11/21	NA	NA	466	470	-101 days		0%
468	CFS-1250		Diversion of Leachate Rising Main near SSSH		241	0 days	NA	NA	18 days	Wed 28/7/21	Wed 18/8/21	NA	NA	469SF	480	18 days		0%
469	CFS-1300		E&M provision of flowmeter chamber and associated sewerage for effluent and sewage from SSSH		256	0 days	NA	NA	40 days	Wed 18/8/21	Tue 5/10/21	NA	NA	466FF	470,468SF	-61 days		0%
470	CFS-2000		Excavation for Raft Footing (800cu.m)			65 days	NA	NA	44 days	Tue 23/11/21	Sat 15/1/22	NA	NA	469,467	471	-101 days		0%
471	CFS-2800		Plate load test at bottom level of compacted generall fill(2no.)			12 days	NA	NA	7 days	Mon 17/1/22	Mon 24/1/22	NA	NA	470	472	-101 days		0%
472	CFS-2900		Soil Replacement (14 layers SRT)			0 days	NA	NA	42 edays	Mon 24/1/22	Mon 7/3/22	NA	NA	471	473	-124.42 edays		0%
473	CFS-3000		Plate load test at bottom level of base slab (3no.)			28 days	Fri 4/6/21	Mon 21/6/21	7 days	Tue 8/3/22	Tue 15/3/22	NA	NA	472	474FF-3 mons,475	-101 days		0%
474	CFS-3900		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Tue 23/11/21	Tue 23/11/21	NA	NA	473FF-3 mons	475SS-3 emons	59 days		0%
475	CFS-4000	KD1J	R.C. structure works			120 days	NA	NA	70 days	Wed 16/3/22	Mon 13/6/22	NA	NA	473,474SS-3 emons	477,476,51FF,521FF,520FF	-101 days	2	0%
476	CFS-5000	KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Mon 13/9/21	Mon 13/9/21	0 days	Mon 13/6/22	Mon 13/6/22	NA	NA	475	51FF	-101 days		0%
477	CFS-6000	SW1	ABWF works + BS works			90 days	Tue 14/9/21	Mon 3/1/22	90 days	Tue 14/6/22	Wed 28/9/22	NA	NA	475	56FF	405 days		0%
478	**CCS-1000**	*	**Chemical System No.1 (8)***			**168 days**	**Mon 1/2/21**	**Thu 26/8/21**	**386 days**	**Sat 12/6/21**	**Wed 28/9/22**	**Sat 12/6/21**	**NA**			**891 days**		**4%**
479	CCS-1310		Demolition of SSSH Pump Pit and Associated Sewerage System		086	0 days	NA	NA	26 days	Sat 19/6/21	Tue 20/7/21	Sat 19/6/21	NA	465	481	54 days		38%
480	CCS-1110		Removal of existing Leachate Rising Main near SSSH		241	0 days	NA	NA	12 days	Wed 18/8/21	Tue 31/8/21	NA	NA	468	481	18 days		0%
481	CCS-1100		Excavation for Raft Footing (20cu.m)			10 days	Mon 1/2/21	Thu 11/2/21	10 days	Wed 1/9/21	Sat 11/9/21	NA	NA	480,479	485FF-3 emons,486,482	18 days		0%
482	CCS-1080		Plate load test at bottom level of compacted generall fill(2no.)			9 days	NA	NA	9 days	Mon 13/9/21	Thu 23/9/21	NA	NA	481	483	18 days		0%
483	CCS-1090		Soil Replacement (10 layers SRT)			0 days	NA	NA	30 edays	Thu 23/9/21	Sat 23/10/21	NA	NA	482	484	23.58 edays		0%
484	CCS-1200		Plate load test at bottom level of base slab (1no.)			5 days	Tue 16/2/21	Wed 3/3/21	5 days	Mon 25/10/21	Fri 29/10/21	NA	NA	483	486,493	19 days		0%
485	CCS-1190		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Sat 12/6/21	Sat 12/6/21	Sat 12/6/21	Sat 12/6/21	481FF-3 emons	486SS-3 emons	0 days		100%
486	CCS-1300	KD1J	R.C. structure works			45 days	Mon 15/3/21	Mon 10/5/21	60 days	Sat 30/10/21	Tue 11/1/22	NA	NA	481,485SS-3 emons,484	51FF,488,487	20 days	2	0%
487	CCS-1400	KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Mon 10/5/21	Mon 10/5/21	0 days	Tue 11/1/22	Tue 11/1/22	NA	NA	486	51FF	20 days		0%
488	CCS-1500	SW1	ABWF works + BS works			90 days	Tue 11/5/21	Thu 26/8/21	90 days	Tue 14/6/22	Wed 28/9/22	NA	NA	189,141,486,522SS	56FF	405 days		0%
489	**CDS-0000**	*	**Deodorization System No.3A (7)***			**149 days**	**Tue 16/11/21**	**Sat 21/5/22**	**105 days**	**Thu 5/8/21**	**Wed 8/12/21**	**NA**	**NA**			**90 days**		**0%**
490	CDS-2000		Excavation for Raft Footing (400cu.m)			20 days	Tue 16/11/21	Wed 8/12/21	20 days	Sat 14/8/21	Tue 7/9/21	NA	NA	491SF		1205 days		0%
491	CDS-2008		Plate load test at bottom level of compacted generall fill(2no.)			10 days	NA	NA	10 days	Tue 7/9/21	Sat 18/9/21	NA	NA	492SF	490SF	1195 days		0%
492	CDS-2100		Soil Replacement (14 layers SRT)			0 days	NA	NA	42 edays	Sat 18/9/21	Sat 30/10/21	NA	NA	493SF	491SF	1425.42 edays		0%
493	CDS-3000		Plate load test at bottom level of base slab (1no.)			4 days	Thu 9/12/21	Fri 24/12/21	4 days	Sat 30/10/21	Wed 3/11/21	NA	NA	484	494FF-3 emons,495,492SF,500FS	-19 days		0%
494	CDS-3900		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Thu 5/8/21	Thu 5/8/21	NA	NA	493FF-3 emons	495SS-3 emons	150 days		0%
495	CDS-4000	KD1J	Footing works			20 days	Tue 4/1/22	Wed 26/1/22	30 days	Thu 4/11/21	Wed 8/12/21	NA	NA	493,494SS-3 emons	496,51FF	46 days		0%
496	CDS-5000	KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Wed 26/1/22	Wed 26/1/22	0 days	Wed 8/12/21	Wed 8/12/21	NA	NA	495	51FF	46 days		0%
497	**CCS-2000**	*	**Chemical System No.2 (11)**			**189 days**	**Thu 4/3/21**	**Thu 21/10/21**	**300 days**	**Fri 24/9/21**	**Wed 28/9/22**	**NA**	**NA**	**462**		**48 days**		**0%**
498	CCS-2100		Excavation for Raft Footing (100cu.m)			15 days	Thu 4/3/21	Sat 20/3/21	14 days	Fri 24/9/21	Mon 11/10/21	NA	NA	499SF		1177 days		0%
499	CCS-2110		Soil Replacement (8 layers SRT)			0 days	NA	NA	24 edays	Wed 6/10/21	Sat 30/10/21	NA	NA	500SF	498SF	1425.42 edays		0%
500	CCS-2200		Plate load test (2no.)			14 days	Mon 22/3/21	Fri 9/4/21	15 days	Sat 30/10/21	Tue 16/11/21	NA	NA	493FS-4 days	501FF-3 emons,502,499SF,510FS	-19 days		0%
501	CCS-2290		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Fri 24/9/21	Fri 24/9/21	NA	NA	500FF-3 emons	502SS-3 emons	108 days		0%
502	CCS-2300	KD1J	R.C. structure works			45 days	Tue 11/5/21	Mon 5/7/21	45 days	Wed 17/11/21	Tue 11/1/22	NA	NA	500,501SS-3 emons	503,51FF,504,505	20 days	2	0%
503	CCS-2400	KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Mon 5/7/21	Mon 5/7/21	0 days	Tue 11/1/22	Tue 11/1/22	NA	NA	502	51FF	20 days		0%
504	CCS-2500	SW1	ABWF works + BS works			90 days	Tue 6/7/21	Thu 21/10/21	90 days	Tue 14/6/22	Wed 28/9/22	NA	NA	189,141,502,522SS	56FF	405 days		0%
505	CCS-2600	SW1	Demolition of existing chemical room			60 days	Tue 6/7/21	Mon 13/9/21	60 days	Wed 12/1/22	Fri 25/3/22	NA	NA	502	56FF	556 days		0%
506	**CTC-0000**	*	**Temporary Chemical Dosing System (5)**			**191 days**	**Tue 22/6/21**	**Thu 10/2/22**	**330 days**	**Thu 19/8/21**	**Wed 28/9/22**	**NA**	**NA**			**89 days**		**0%**
507	CTC-2000		Excavation for Raft Footing (300cu.m)			30 days	Tue 22/6/21	Tue 27/7/21	30 days	Thu 26/8/21	Sat 2/10/21	NA	NA	508SF		1185 days		0%
508	CTC-2080		Plate load test at bottom level of compacted generall fill(2no.)			9 days	NA	NA	9 days	Sat 2/10/21	Wed 13/10/21	NA	NA	509SF	507SF	1176 days		0%
509	CTC-2100		Soil Replacement (10 layers SRT)			0 days	NA	NA	30 edays	Wed 13/10/21	Fri 12/11/21	NA	NA	510SF	508SF	1412.42 edays		0%
510	CTC-1000		Plate load test at bottom level of base slab (1no.)			5 days	Wed 28/7/21	Thu 12/8/21	5 days	Fri 12/11/21	Wed 17/11/21	NA	NA	500FS-4 days	509SF,511FF-3 emons,512	19 days		0%
511	CTC-2900		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Thu 19/8/21	Thu 19/8/21	NA	NA	510FF-3 emons	512SS-3 emons	138 days		0%
512	CTC-3000	KD1J	R.C. structure works			30 days	Tue 14/9/21	Thu 21/10/21	45 days	Thu 18/11/21	Wed 12/1/22	NA	NA	511SS-3 emons,510	513,51FF,514	19 days	1	0%
513	CTC-4000	KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Thu 21/10/21	Thu 21/10/21	0 days	Wed 12/1/22	Wed 12/1/22	NA	NA	512	51FF	19 days		0%
514	CTC-5000	SW1	ABWF works + BS works			90 days	Fri 22/10/21	Thu 10/2/22	90 days	Tue 14/6/22	Wed 28/9/22	NA	NA	189,141,512,522SS	56FF	405 days		0%
515	**CFB-0000**	*	**Fire Hydrant and Booster Pump Room (13)***			**177 days**	**Fri 13/8/21**	**Thu 17/3/22**	**193 days**	**Sat 5/2/22**	**Wed 28/9/22**	**NA**	**NA**			**-28 days**		**0%**
516	CFB-1000		Excavation for Raft Footing (200cu.m)			30 days	Fri 13/8/21	Thu 16/9/21	30 days	Wed 23/2/22	Wed 30/3/22	NA	NA	517SF		1039 days		0%
517	CFB-1100		Soil Replacement (7 layers SRT)			0 days	NA	NA	21 edays	Wed 30/3/22	Wed 20/4/22	NA	NA	518SF	516SF	1253.42 edays		0%
518	CFB-2000		Plate load test (3no.)			14 days	Fri 17/9/21	Tue 5/10/21	14 days	Wed 20/4/22	Sat 7/5/22	NA	NA	520SF	519FF-3 emons,517SF	1011 days		0%
519	CFB-2900		Receiving of Civil Requirements from PM			0 days	NA	NA	1 day	Sat 5/2/22	Sun 6/2/22	NA	NA	518FF-3 emons		1083 days		0%
520	CFB-3000	KD1J	R.C. structure works			30 days	Fri 22/10/21	Thu 25/11/21	30 days	Sat 7/5/22	Mon 13/6/22	NA	NA	475FF	521,522,51FF,518SF	-101 days	1	0%
521	CFB-4000	KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	Thu 25/11/21	Thu 25/11/21	0 days	Mon 13/6/22	Mon 13/6/22	NA	NA	520,475FF	51FF	-101 days		0%
522	CFB-5000	SW1	ABWF works + BS works			90 days	Fri 26/11/21	Thu 17/3/22	90 days	Tue 14/6/22	Wed 28/9/22	NA	NA	520,189,141	56FF,514SS,504SS,488SS,460SS	405 days		0%
523	**CDS1-0000**		**Deodorization System No.1 (6)***			**64 days**	**NA**	**NA**	**105 days**	**Tue 10/5/22**	**Tue 13/9/22**	**NA**	**NA**			**418 days**		**0%**
524	CDS1-1000		Excavation for Raft Footing (400cu.m)			20 days	NA	NA	20 days	Wed 8/6/22	Thu 30/6/22	NA	NA	522	525	420 days		0%
525	CDS1-1080		Plate load test at bottom level of compacted generall fill(2no.)			10 days	NA	NA	10 days	Sat 2/7/22	Wed 13/7/22	NA	NA	524	526	420 days		0%
526	CDS1-1100		Soil Replacement (7 layers SRT)			0 days	NA	NA	21 edays	Wed 13/7/22	Wed 3/8/22	NA	NA	525	527	513.58 edays		0%
527	CDS1-2000		Plate load test at bottom level of base slab (1no.)			4 days	NA	NA	4 days	Thu 4/8/22	Mon 8/8/22	NA	NA	526	529,528FF-3 emons	418 days		0%
528	CDS1-2900		Receiving of Civil Requirements from PM			0 days	NA	NA	0 days	Tue 10/5/22	Tue 10/5/22	NA	NA	527FF-3 emons	529SS-3 emons	523 days		0%
529	CDS1-3000	SW1	Footing works			30 days	NA	NA	30 days	Tue 9/8/22	Tue 13/9/22	NA	NA	527,528SS-3 emons	530,56FF	418 days		0%
530	CDS1-4000	SW1	Allow access to Contractor DE/2018/04 for E&M installation and T&C works			0 days	NA	NA	0 days	Tue 13/9/22	Tue 13/9/22	NA	NA	529	56FF	418 days		0%
531	**CAA-0000**	*	**Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)**			**662 days**	**Wed 29/1/20**	**Fri 22/4/22**	**918 days**	**Mon 1/6/20**	**Thu 6/7/23**	**Mon 1/6/20**	**NA**			**269 days**		**64%**



ID	Activity ID	Key Date	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	Total Slack	Risk Allowance	% Complete
532	**CAA-1000**	**KD2B**	**B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)**			**180 days**	**Wed 29/1/20**	**Thu 3/9/20**	**246 days**	**Mon 1/6/20**	**Fri 26/3/21**	**Mon 1/6/20**	**Fri 26/3/21**	**15,142,184**	**53FF**	**0 days**		**100%**
533	CAA-1100		Change of pipe bridge design		(057)	0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/20		536,537,538	0 days		100%
534	CAA-1200		Additional inspection pit to verilify the connection point to existing (CE xxx)			0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/20		536,537,538	0 days		100%
535	CAA-1300		Additional MBV installation (CE xxx)			0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/20		536,537,538	0 days		100%
536	CAA-1400		Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)			180 days	Wed 29/1/20	Thu 3/9/20	111 days	Wed 11/11/20	Fri 26/3/21	Wed 11/11/20	Fri 26/3/21	533,534,535	53FF	0 days		100%
537	CAA-1500	KD2B	Re-alignmnet of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases		064	0 days	NA	NA	111 days	Wed 11/11/20	Fri 26/3/21	Wed 11/11/20	Fri 26/3/21	533,534,535	53FF	0 days		100%
538	CAA-1600	KD2B	Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2		062	0 days	NA	NA	111 days	Wed 11/11/20	Fri 26/3/21	Wed 11/11/20	Fri 26/3/21	533,534,535	53FF,539	0 days		100%
539	CAA-2000	KD1I	B7-A Alternation works for existing Power House			122 days	Fri 4/9/20	Sat 30/1/21	0 days	Wed 11/11/20	Fri 29/1/21	Wed 11/11/20	Fri 29/1/21	13FS-1 day,122,160,162,176,538	50FF,540FS+356 days	0 days		100%
540	CAA-2100	SW3	Additional works for Power House		224	0 days	NA	NA	60 days	Thu 14/4/22	Wed 29/6/22	NA	NA	539FS+356 days	58FF	570 days		0%
541	CAA-3000	SW3	Alternation works for existing Membrane Facilities Building No.1			360 days	Mon 1/2/21	Fri 22/4/22	360 days	Tue 19/4/22	Thu 6/7/23	NA	NA	14FS-1 day,175	58FF	269 days		0%
542	**CUU-0000**	*	**External Underground Service, Utilities, Road/Drain**			**1091 days**	**Mon 24/2/20**	**Sat 28/10/23**	**1192 days**	**Mon 27/4/20**	**Mon 13/5/24**	**Mon 27/4/20**	**NA**	**16**		**-88 days**		**46%**
543	CUU-1000	KD2A	Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)		33, 222, 255	325 days	Mon 24/2/20	Sat 27/3/21	379 days	Mon 27/4/20	Wed 4/8/21	Mon 27/4/20	NA	184,142	554SS+48 days,552SS+48 days,55	-39 days		99%
544	CUU-1000a		Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall for trenching work of Process Pipeline CHR and CHS		33	0 days	NA	NA	54 days	Sat 30/5/20	Mon 3/8/20	Sat 30/5/20	Mon 3/8/20			0 days		100%
545	CUU-1000b		Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.)		255	0 days	NA	NA	60 days	Thu 25/2/21	Mon 10/5/21	Thu 25/2/21	Mon 10/5/21		52FF	0 days		100%
546	CUU-1001		Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area		033	0 days	NA	NA	43 days	Thu 2/7/20	Thu 20/8/20	Thu 2/7/20	Thu 20/8/20			0 days		100%
547	CUU-1002		Grouting for Sheung Shui Slaughter House Boundary Walls along CHR & CHS Pipes Works Area		222	0 days	NA	NA	20 days	Fri 23/10/20	Mon 16/11/20	Fri 23/10/20	Mon 16/11/20			0 days		100%
548	CUU-1004		Delay Delivery of DI pipes due to COVID-19		(076)	0 days	NA	NA	75 days	Tue 22/12/20	Thu 25/3/21	Tue 22/12/20	Thu 25/3/21		549FF	0 days		100%
549	CUU-2000	SW2	Process Pipes, including CHT, CHX, CHY, CHPS1&2, CHS S1&2, CHDO 1&2, CHPSW 1-8, CHTPS, CHPT1&2, CHTFT 1&2, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe			550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	NA	184,142,548FF,543SS+48 days	57FF,555,550SS+250 days	63 days		51%
550	CUU-2100	SW2	Remaining Process Pipes			0 days	NA	NA	270 days	Mon 23/8/21	Fri 22/7/22	NA	NA	549SS+250 days	57FF	0 days		0%
551	CUU-3000	SW2	Remaining Drainage			550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/20	NA	184,142	555,57FF	0 days	5	45%
552	CUU-4000	SW2	Remaining Sewerage			550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/20	NA	184,142,543SS+48 days	555,57FF	0 days	5	45%
553	CUU-5000	SW2	Remaining Waterworks			550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/20	NA	184,142,543SS+48 days	557FS+2 days,57FF	0 days	5	45%
554	CUU-6000	SW2	Remaining Cable Ducts			550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/20	NA	184,142,543SS+48 days	555,57FF	0 days	5	45%
555	CUU-7000	KD3A	Roadworks			540 days	Fri 31/12/21	Sat 28/10/23	440 days	Mon 7/11/22	Mon 13/5/24	NA	NA	554,551,552,549,352,399,334,433	54FF,558SS+123 days	-88 days	5	0%
556	**CLW-0000**	*	**Landscaping Works**			**854 days**	**Wed 11/5/22**	**Thu 27/3/25**	**946 days**	**Tue 26/7/22**	**Wed 24/9/25**	**NA**	**NA**	**16**		**0 days**		**0%**
557	CLW-1000	KD3A	Irrigation System			120 days	Wed 11/5/22	Fri 30/9/22	120 days	Tue 26/7/22	Thu 15/12/22	NA	NA	553FS+2 days,184	558,54FF	1 day		0%
558	CLW-2000	SW3	Hard Landscaping Works			220 days	Mon 3/10/22	Mon 3/7/23	214 days	Tue 11/4/23	Sat 23/12/23	NA	NA	557,555SS+123 days	559,58FF	-88 days	5	0%
559	CLW-3000	SW3	Soft Landscaping Works			220 days	Tue 4/7/23	Tue 26/3/24	214 days	Wed 27/12/23	Tue 24/9/24	NA	NA	558,143	560,58FF	-88 days	5	0%
560	CLW-4000	DLP	Establishment Works (365 days)			294 days	Wed 27/3/24	Thu 27/3/25	365 days	Wed 25/9/24	Wed 24/9/25	NA	NA	559,143	59FF,60FF	0 days	5	0%



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
SWH - Main Works Stage 1 Sidestream Treatment Facilities & E&M Works for Sludge Treatment Facilities							
Contract Data							
Starting Date & Completion Date							
AS000010	Contract Date (LOA)	0	11-Oct-19 A		21-Jul-21		
AS000020	Starting Date	0	23-Oct-19 A		21-Jul-21		
AS000110	Whole Contract Period (1626 days from starting date)	1626	23-Oct-19 A	04-Apr-24	21-Jul-21	04-Apr-24	0
AS000220	Completion Date for the whole of the Works	0		04-Apr-24		04-Apr-24	0
Access Date							
AS001100	Portion C-1A (within 480 to 550 days from starting date)	550	23-Oct-19 A	24-Apr-21 A	21-Jul-21	21-Jul-21	
AS001120	Planned Access Date for Portion C-1A	1	24-Apr-21 A	24-Apr-21 A	21-Jul-21	21-Jul-21	
AS001200	Portion C-2A (within 705 to 795 days from starting date)	795	23-Oct-19 A	25-Dec-21	21-Jul-21	25-Dec-21	0
AS001220	Planned Access Date for Portion C-2A	1	25-Dec-21	25-Dec-21*	25-Dec-21	25-Dec-21	0
AS001300	Portion C-2B (within 765 to 855 days from starting date)	855	23-Oct-19 A	23-Feb-22	21-Jul-21	23-Feb-22	0
AS001320	Planned Access Date for Portion C-2B	1	23-Feb-22	23-Feb-22*	23-Feb-22	23-Feb-22	0
AS001400	Portion C-2C (within 715 to 805 days from starting date)	805	23-Oct-19 A	04-Jan-22	21-Jul-21	04-Jan-22	0
AS001420	Planned Access Date for Portion C2-C	1	04-Jan-22	04-Jan-22*	04-Jan-22	04-Jan-22	0
AS001500	Portion C-2D (within 825 to 945 days from starting date)	945	23-Oct-19 A	24-May-22	21-Jul-21	24-May-22	0
AS001520	Planned Access Date for Portion C-2D	1	24-May-22	24-May-22*	24-May-22	24-May-22	0
AS001600	Portion C-3 (within 615 to 705 days from starting date)	705	23-Oct-19 A	26-Sep-21	21-Jul-21	26-Sep-21	0
AS001620	Planned Access Date for Portion C-3	1	26-Sep-21	26-Sep-21*	26-Sep-21	26-Sep-21	0
AS001700	Portion B-1 (within 285 to 345 days from starting date)	345	23-Oct-19 A	30-Sep-20 A	21-Jul-21	21-Jul-21	
AS001720	Planned Access Date for Portion B-1	1	30-Sep-20 A	30-Sep-20 A	21-Jul-21	21-Jul-21	
AS001800	Portion B-2 (within 615 to 705 days from starting date) (SS by NCE-NCE-219)	705	23-Oct-19 A	26-Sep-21	21-Jul-21	26-Sep-21	0
AS001820	Planned Access Date for Portion B-2 (SS by NCE-NCE-219)	1	26-Sep-21	26-Sep-21*	26-Sep-21	26-Sep-21	0
AS001900	Works Area WA1-B (starting date)	1	23-Oct-19 A	23-Oct-19 A	22-Jul-21	22-Jul-21	
AS001910	Planned Access Date for Works Area WA1-B	1	23-Oct-19 A	23-Oct-19 A	22-Jul-21	22-Jul-21	
AS001920	Works Area WA3 (starting date)	1	23-Oct-19 A	23-Oct-19 A	22-Jul-21	22-Jul-21	
AS001930	Planned Access Date for Works Area WA3	1	23-Oct-19 A	23-Oct-19 A	22-Jul-21	22-Jul-21	
Key Dates							
AS002010	KD1A Submission of Civil Requirement Dwgs, Elec. Schematic Dwgs of UV System No.1 and Effluent Pumping Station No.1	196	23-Oct-19 A	05-May-20 A	20-Aug-21	20-Aug-21	
AS002020	KD2A Submission of Civil Requirement Dwgs, Elec. Schematic Dwgs of SD Bldg, SD & DC, CHP Bldg, Workshop No.2, etc.	226	23-Oct-19 A	04-Jun-20 A	04-Apr-24	04-Apr-24	
AS002040	KD2B Submission of Remaining Civil Requirement Dwgs, Elec. Schematic Dwgs of SD Bldg, SD & DC, CHP Bldg, etc.	461	23-Oct-19 A	15-Jan-21 A	04-Apr-24	04-Apr-24	
AS002050	KD3A Completion of Phase 1 Commissioning of Sidestream Treatment Facilities (1140d after Portion B-1 Access)	1141	30-Sep-20 A	14-Nov-23*	21-Jul-21	14-Nov-23	0
AS002060	KD5A - Completion of the BS Fittings Installation at CLP Sub-Station at Workshop No. 2 (245d after Portion C-3 Access)	246	26-Sep-21	29-May-22*	26-Sep-21	29-May-22	0
Completion Date							
Section 1 - Complete All Design at UV System No.1 & EP Station No. 1							
AS003100	Contract Duration of Section 1	291	23-Oct-19 A	08-Aug-20 A	04-Apr-24	04-Apr-24	



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File Name: DE/2018/03 RP R12
Layout: DE1803 RP (Jul 2021) - WBS
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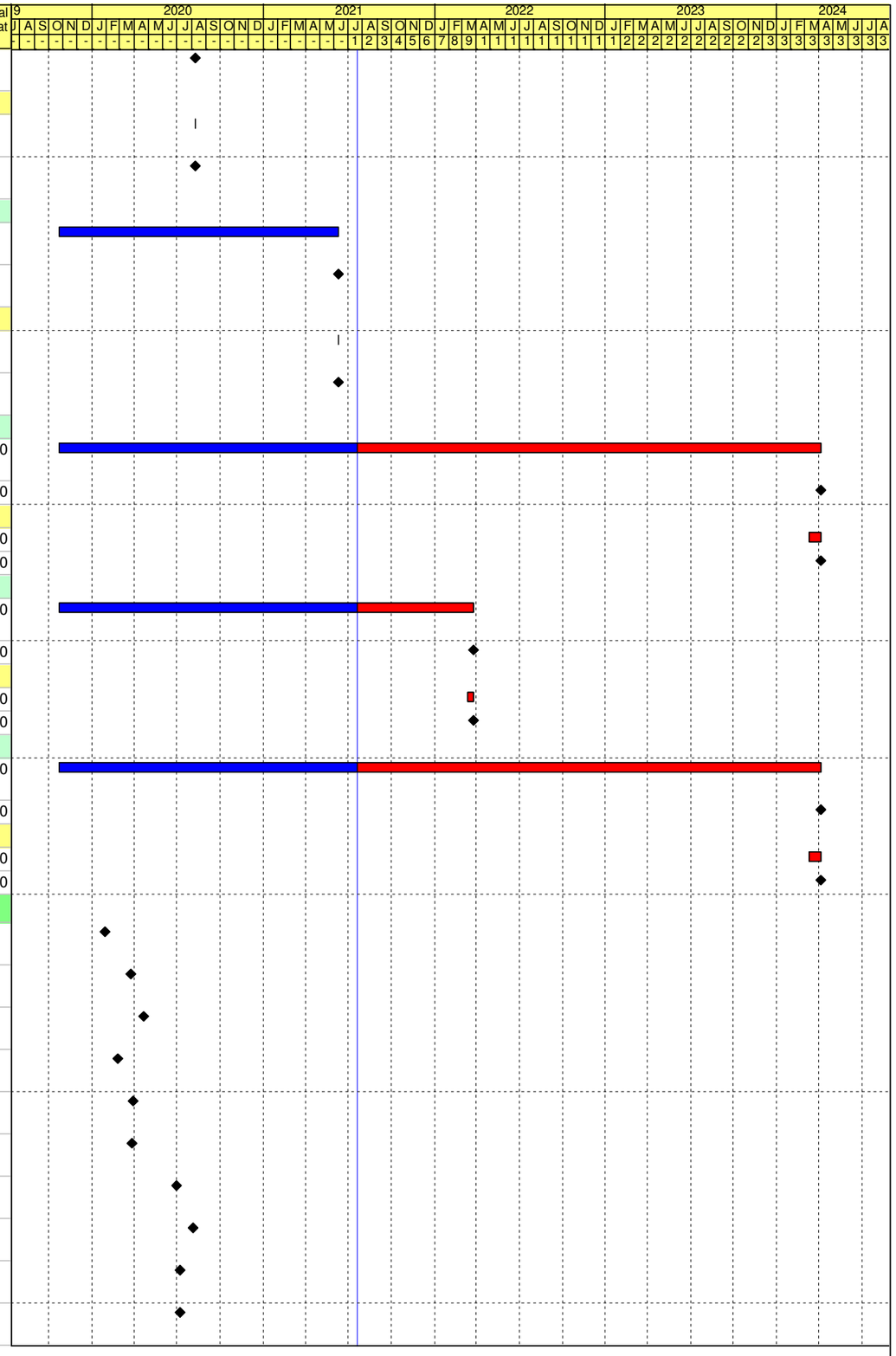
Remaining Work
Critical Activity
Milestone
Actual Progress

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

Date	Revision	Checked	Approved
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM
31-May-21	Rev.10	LT	KM
30-Jun-21	Rev.11	LT	KM
31-Jul-21	Rev.12	LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
AS003110	Completion date - Section 1 (290 days after starting date)	0		08-Aug-20 A		04-Apr-24	
Time Risk Allowance and Planned Completion							
AS003105	Time Risk Allowance for Section 1	1	08-Aug-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24	
AS003130	Planned Completion for Section 1	0		08-Aug-20 A		04-Apr-24	
Section 2 - Complete All Designs (exclude Sec. 1 & 3)							
AS003200	Contract Duration of Section 2	601	23-Oct-19 A	11-Jun-21 A	04-Apr-24	04-Apr-24	
AS003210	Completion date - Section 2 (600 days after starting date)	0		11-Jun-21 A		04-Apr-24	
Time Risk Allowance and Planned Completion							
AS003220	Time Risk Allowance for Section 2	6	11-Jun-21 A	11-Jun-21 A	04-Apr-24	04-Apr-24	
AS003230	Planned Completion for Section 2	0		11-Jun-21 A		04-Apr-24	
Section 3 - Complete Design, Construction & T&C for Sidestream Facilities							
AS003300	Contract Duration of Section 3	1626	23-Oct-19 A	04-Apr-24	21-Jul-21	04-Apr-24	0
AS003310	Completion date - Section 3 (1625 days after starting date)	0		04-Apr-24*		04-Apr-24	0
Time Risk Allowance and Planned Completion							
AS003320	Time Risk Allowance for Section 3	26	10-Mar-24	04-Apr-24	10-Mar-24	04-Apr-24	0
AS003330	Planned Completion for Section 3	0		04-Apr-24*		04-Apr-24	0
Section 4 - Complete Construction & T&C for UV System No.1 & EP Station No. 1							
AS003400	Contract Duration of Section 4	886	23-Oct-19 A	26-Mar-22	21-Jul-21	26-Mar-22	0
AS003410	Completion date - Section 4 (885 days after starting date)	0		26-Mar-22*		26-Mar-22	0
Time Risk Allowance and Planned Completion							
AS003420	Time Risk Allowance for Section 4	14	13-Mar-22	26-Mar-22	13-Mar-22	26-Mar-22	0
AS003430	Planned Completion for Section 4	0		26-Mar-22*		26-Mar-22	0
Section 5 - Complete all remaining Works (incl. T&C)							
AS003500	Contract Duration of Section 5	1626	23-Oct-19 A	04-Apr-24	21-Jul-21	04-Apr-24	0
AS003510	Completion date - Section 5 (1625 days after starting date)	0		04-Apr-24*		04-Apr-24	0
Time Risk Allowance and Planned Completion							
AS003520	Time Risk Allowance for Section 5	26	10-Mar-24	04-Apr-24	10-Mar-24	04-Apr-24	0
AS003530	Planned Completion for Section 5	0		04-Apr-24*		04-Apr-24	0
Compensation Event							
CE000010	CE No.001 - Special Work Arrangement in Ruducing the Risk of the Spread of Novel Coronavirus	0		30-Jan-20 A		04-Apr-24	
CE000020	CE No.002 - The Contractor's Site Accomodation by Modular Integrated Construction (MIC) Method	0		23-Mar-20 A		04-Apr-24	
CE000030	CE No.003 - Flowmeter Relocation & Pipework Rearrangement at Effluent Transfer Pumping Station	0		20-Apr-20 A		04-Apr-24	
CE000040	CE No.004 - Designated Area for the Contractor's Site Accommodation in Works Area WA1	0		26-Feb-20 A		04-Apr-24	
CE000050	CE No.005 - Revised Size of Penstock at UV System No.1 & Effluent Pumping Station No.1 for Ex. Outfall	0		30-Mar-20 A		04-Apr-24	
CE000055	CE No.006 - Additional Duty Point for Effluent Transfer Pumps	0		27-Mar-20 A		04-Apr-24	
CE000060	CE No.007 - Additional Adjustable Weir at UV System No.1 & Effluent Pumping Station No.1	0		30-Jun-20 A		04-Apr-24	
CE000070	CE No.008 - Provision of Additional 2nd Temp. Power Supply for UV System No.1 & Effluent Pumping Station No.1	0		03-Aug-20 A		04-Apr-24	
CE000080	CE No.009 - Employment of Temporary Staff under Anti-Epidemic Fund	0		07-Jul-20 A		04-Apr-24	
CE000090	CE No.010 - Revised Setting Out Plan for Sidestream Treatment Facilities	0		07-Jul-20 A		04-Apr-24	



Remaining Work
Critical Activity
Milestone
Actual Progress

Contract No. DE/2018/03
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities
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Date	Revision	Checked	Approved
29-Mar-21	Rev.8	LT	KM
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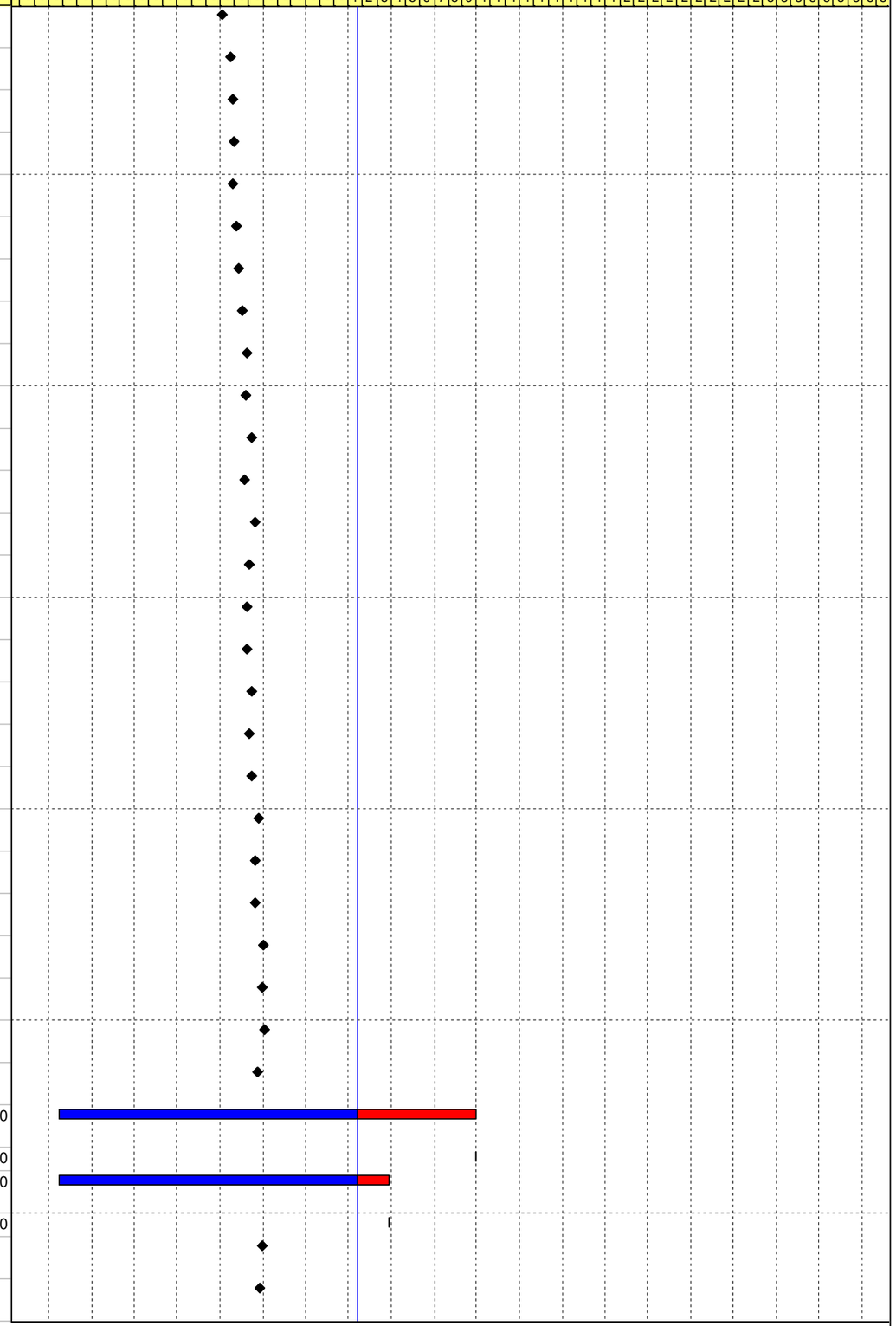
31-Jul-21	Rev.12	LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
CE000100	CE No.012 - Provision of Touchscreen Display System for the Project Manager's Office	0		06-Oct-20 A		04-Apr-24	
CE000110	CE No.013 - Feasibility Study for Adopting emMiC & DfMA	0		22-Oct-20 A		04-Apr-24	
CE000120	CE No.014 - Revised FS Water Supply Arrangement for CHP, Guard House, Workshop No.2, SludgeDigester&DistributionChamber	0		28-Oct-20 A		04-Apr-24	
CE000130	CE No.015 - Revised Plumbing Arranagement for Workshop No.2, UV & Effluent No.1, CHP, SPS&FCDF, DOU No.11&12, H2S, SDDC	0		30-Oct-20 A		04-Apr-24	
CE000140	CE No.016 - Elect. Provisions for Addit. 800A ACB w/ CMPD as Standby Supply for MBBR for UV No.2 for Future Expansion	0		28-Oct-20 A		04-Apr-24	
CE000150	CE No.018 - MVAC Layout for Plant Service Water System	0		05-Nov-20 A		04-Apr-24	
CE000160	CE No.020 - Addit. set of 11kV power feeder panel at 11kV SB in CHP for future connection to Zone B in Stage 2	0		09-Nov-20 A		04-Apr-24	
CE000165	NCE-PMI-0201 - Provision of Access Platform for EOT cranes in UV System No.1 & Effluent Pumping Station No.1	0		16-Nov-20 A		04-Apr-24	
CE000170	NCE-PMI-0202 - Revised Plumbing Arrangement for Sludge Dewatering Building	0		26-Nov-20 A		04-Apr-24	
CE000175	NCE-PPMI-0203 - MVAC Layout for SAS Pumping Station	0		25-Nov-20 A		04-Apr-24	
CE000180	NCE-PMI-0204 - CHP - Provisional of Additional ATS for Power Supply for UPS	0		08-Dec-20 A		04-Apr-24	
CE000185	NCE-PPMI-0205 - Fibre Optics Network Connection for SCADA Systems between Zone B & Zone C	0		23-Nov-20 A		04-Apr-24	
CE000190	NCE-PMI-0206 - SDB - Provisional of Additional ATS for Power Supply for UPS	0		15-Dec-20 A		04-Apr-24	
CE000191	NCE-PMI-0207 - TX Rm & Switch Rm - Provision of ATS for Power Supply for UPS	0		01-Dec-20 A		04-Apr-24	
CE000192	NCE-PPMI-0208 - Provision of Drainage service Layout for SAS Pumping Station	0		26-Nov-20 A		04-Apr-24	
CE000193	NCE-PPMI-0209 - Drainage System for Plant Service Water System	0		26-Nov-20 A		04-Apr-24	
CE000194	NCE-PPMI-0210 - Electrical provisions for MVAC & Drainage Systems in SAS Pumping Station	0		08-Dec-20 A		04-Apr-24	
CE000195	NCE-PPMI-0211 - Revised MVAC Layout & Electrical Provisions for MVAC in TX and Switch Rm	0		02-Dec-20 A		04-Apr-24	
CE000196	NCE-PMI-0212 - Provision of Louvre Panel for Outdoor AC Units at Contractor's Site Accomodation	0		07-Dec-20 A		04-Apr-24	
CE000197	NCE-PPMI-0213 - Electrical provisions for MVAC & Drainage System in UV System No.1 & Effluent Pumping Station No.1	0		21-Dec-20 A		04-Apr-24	
CE000200	NCE-PPMI-0214 - Additional Sump Pump & Drain Pipes at UV System No.1 & Effluent Pumping Station	0		14-Dec-20 A		04-Apr-24	
CE000210	NCE-PPMI-0215 - Revised MVAC Layout for UV System No.1 & Effluent Pumping Station No.1	0		14-Dec-20 A		04-Apr-24	
CE000220	NCE-PPMI-0216 - Electrical Provisions for MVAC & drainage Sytems in Plant Service Water System	0		31-Dec-20 A		04-Apr-24	
CE000230	NCE-PMI-0217 - Revised Duty Points for Effluent Transfer Pumps	0		29-Dec-20 A		04-Apr-24	
CE000240	NCE-PMI-0218 - Scoping Study for Application of Digital Twin & IoT in Zone B & Zone C of SWHEPP	0		04-Jan-21 A		04-Apr-24	
CE000250	NCE-NCE-0219 - Change of Site Access Date to SAS Pumping Station Forming Part of Portion B-2 of the Site	0		19-Dec-20 A		04-Apr-24	
CE000252	NCE-NCE-0219 - Portion B-2a (within 771 to 891 days from starting date)	891	23-Oct-19 A	31-Mar-22	21-Jul-21	31-Mar-22	0
CE000254	NCE-NCE-0219 - Revised Access Date for Portion B-2a	1	31-Mar-22	31-Mar-22*	31-Mar-22	31-Mar-22	0
CE000256	NCE-NCE-0219 - Portion B-2b (within 615 to 705 days from starting date)	705	23-Oct-19 A	26-Sep-21	21-Jul-21	26-Sep-21	0
CE000258	NCE-NCE-0219 - Revised Access Date for Portion B-2b	1	26-Sep-21	26-Sep-21*	26-Sep-21	26-Sep-21	0
CE000260	NCE-PMI-0220 - Supply of Puddle Pipes for Effluent to Shek Sheung River	0		30-Dec-20 A		04-Apr-24	
CE000270	NCE-PPMI-0221 - General Arrangement for Fire Hydrant & Booster Pump Room	0		24-Dec-20 A		04-Apr-24	



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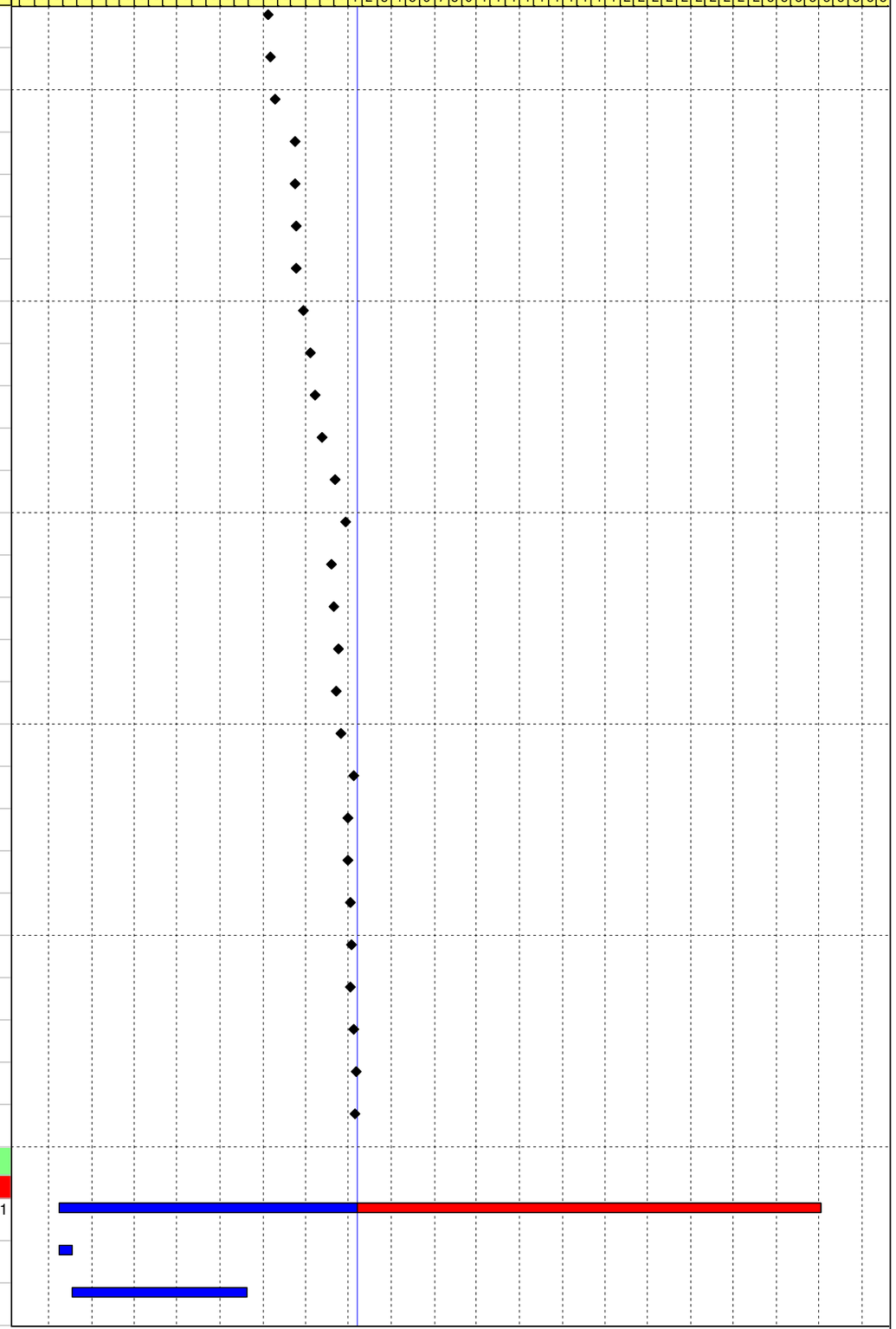
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
CE000280	NCE-PMI-0222 - Revised Water Supply Arrangement (FS Water) to Sludge Dewatering Building	0		12-Jan-21 A		04-Apr-24	
CE000290	NCE-PMI-0223 - Construction of Trial Pits for Sidestream Treatment Facilities	0		15-Jan-21 A		04-Apr-24	
CE000300	NCE-PMI-0224 - Independent Inspection Body (IIB) for the Factory Acceptance Test (FAT) for UV Disinfeciton System	0		25-Jan-21 A		04-Apr-24	
CE000310	NCE-PMI-0225 - Supply of Ductile Iron Puddle Pipes at the Basement of Sludge Dewatering Building	0		09-Mar-21 A		04-Apr-24	
CE000320	NCE-PMI-0226 - Provision of Solar Water Heating System at the Contractor's Site Accomodation	0		09-Mar-21 A		04-Apr-24	
CE000330	NCE-PMI-0227 - Dual Power Fedder for LV Switch Panel at Sewage Pumping Station	0		11-Mar-21 A		04-Apr-24	
CE000340	NCE-PMI-0228 - Provision of Effluent Pipes and Associated Valve and Supply of Supports for Effluent to Shek Sheung River	0		11-Mar-21 A		04-Apr-24	
CE000350	NCE-PMI-0230 - Provision of Project Jackets with Fleece Vests	0		26-Mar-21 A		04-Apr-24	
CE000360	NCE-PMI-0231 - Extension of Sampling Pipe From Low Level on Sludge Digesters	0		12-Apr-21 A		04-Apr-24	
CE000370	NCE-PMI-0232 - Dual Power Fedder for LV Switch Panel at 1/F LV Switch Room of Combined Heat and Power (CHP) Building	0		22-Apr-21 A		04-Apr-24	
CE000380	NCE-PMI-0233 - Sampling, Simulating and Testing of Existing Sludge for Obtaining the Viscosity of the Mixed Sludge	0		06-May-21 A		04-Apr-24	
CE000390	NCE-PMI-0234 - Provision of FRP Walkway, Access Platform & Handrailing for Sludge Digester No. 2	0		02-Jun-21 A		04-Apr-24	
CE000395	NCE-CNE-0237 - Provision of Inspectin Windows for Sludge Digester	0		25-Jun-21 A		04-Apr-24	
CE000400	NCE-PMI-0238 - Supply of Stainless Steel Puddle Pipes for Surplus Activated Sludge (SAS) Pumping Station	0		27-May-21 A		04-Apr-24	
CE000410	NCE-PMI-0239 - Revised the Arrangement for Process Water Supply and Plant Services Water System	0		01-Jun-21 A		04-Apr-24	
CE000420	NCE-PMI-0240 - Revised Coping and Invert Levels for Penstock and Stoplog of SAS Pumping Station	0		09-Jun-21 A		04-Apr-24	
CE000430	NCE-PMI-0241 - Revised Diesel Fuel Tank at Combined Heat and Power (CHP) Building	0		04-Jun-21 A		04-Apr-24	
CE000440	NCE-PMI-0242 - Revised Fire Services Provision of UV System No. 1 and Effluent Pumping Station No. 1	0		15-Jun-21 A		04-Apr-24	
CE000450	NCE-PMI-0243 - Provision of Flow Signal Inputs for UV Disinfection System	0		12-Jul-21 A		04-Apr-24	
CE000460	CNE-0244 - Access to and use of portion C-1A	0		29-Jun-21 A		04-Apr-24	
CE000470	NCE-PMI-0245 - Provision of Augmented Reality (AR) Mobile Application	0		30-Jun-21 A		04-Apr-24	
CE000480	NCE-PMI-0246 - Revised HV Remote Control Panels at CHP & Workshop No. 2	0		06-Jul-21 A		04-Apr-24	
CE000490	NCE-PMI-0247 - Temporary 4G System for SCADA System Monitoring	0		07-Jul-21 A		04-Apr-24	
CE000500	NCE-PMI-0248 - Inclement Weather - May 2021 (Time Implication)	0		05-Jul-21 A		04-Apr-24	
CE000510	NCE-PMI-0250 - Provision of Front Access LV Switch Panel in the LV Switch Room on G/F Workshop No. 2	0		14-Jul-21 A		04-Apr-24	
CE000520	NCE-PMI-0252 - Provision of Neutral Earthing Resistor (NER) at Workshop No. 2	0		19-Jul-21 A		04-Apr-24	
CE000530	NCE-PMI-0253 - Provision of Building Services Systems in New LV Switch Room on the G/F Workshop No. 2	0		16-Jul-21 A		04-Apr-24	
Preliminaries							
Mobilisation							
AS010100	Provison of Equipment / Facilities for the PM's Office	1625	23-Oct-19 A	03-Apr-24	22-Jul-21	04-Apr-24	1
AS010200	Mobilisation	28	23-Oct-19 A	19-Nov-19 A	21-Jul-21	21-Jul-21	
AS010205a	Design, Procurement & PO & Construction of Contractor's Site Office (Works Area WA1-B)	270	20-Nov-19 A	27-Nov-20 A	23-Jul-21	23-Jul-21	



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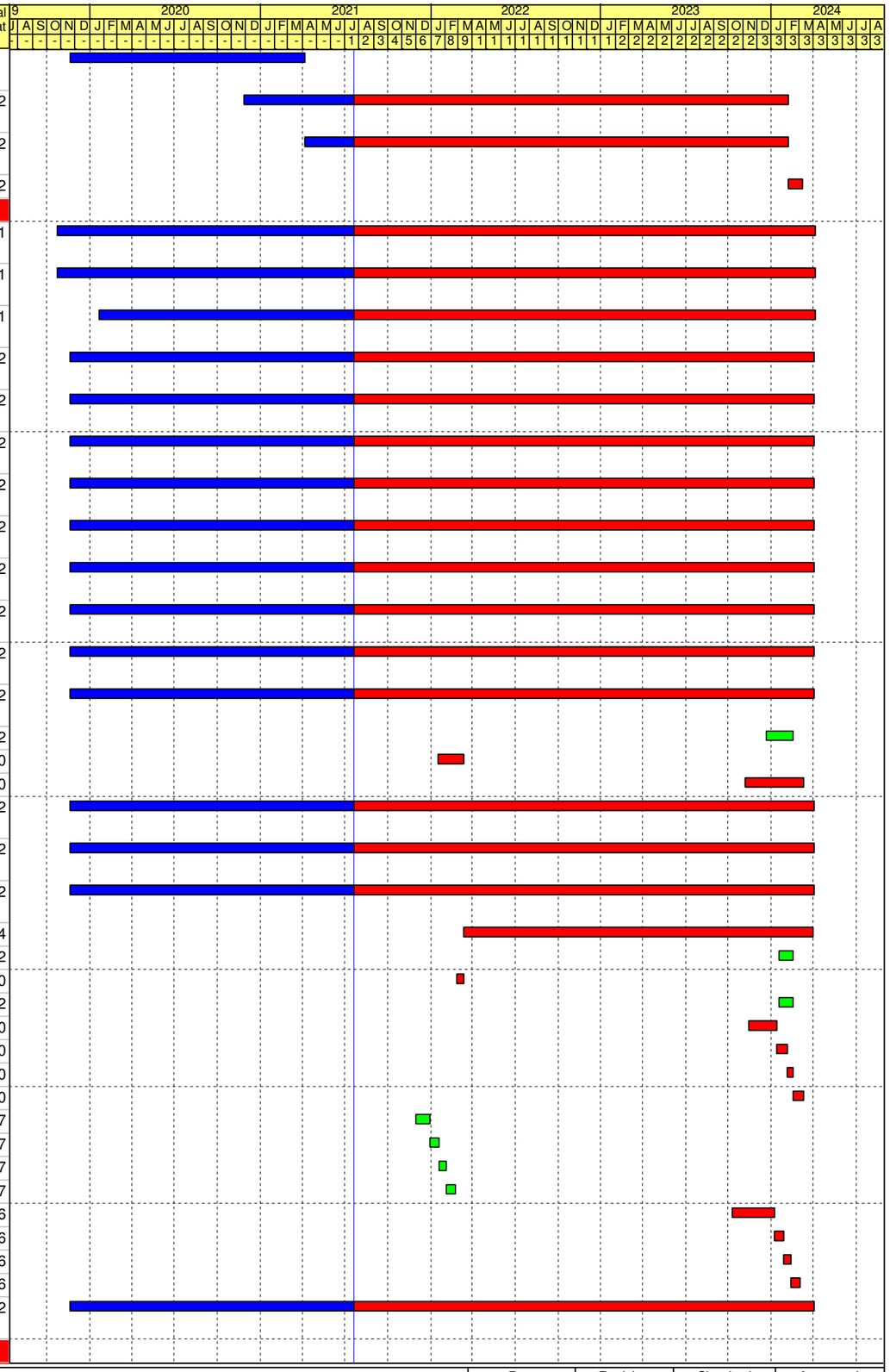
AS010210	Design, Procurement & PO & Construction of Contractor's Storage Area (Works Area WA3)	503	20-Nov-19 A	05-Apr-21 A	23-Jul-21	23-Jul-21	
AS010220	Maintain Contractor's Site Office	1166	28-Nov-20 A	06-Feb-24	23-Jul-21	08-Feb-24	2
AS010230a	Maintain Contractor's Storage Area	1037	06-Apr-21 A	06-Feb-24	23-Jul-21	08-Feb-24	2
AS010240	Removal of Site Office, Storage & Relevant Facilities	30	07-Feb-24	07-Mar-24	09-Feb-24	09-Mar-24	2
Site Preliminaries							
AS010300	Provision of Insurance, Third Party Insurances & PII	1625	23-Oct-19 A	03-Apr-24	22-Jul-21	04-Apr-24	1
AS010400	Provision of 2 Contract Car for the Use of the PM & Supervisor	1625	23-Oct-19 A	03-Apr-24	22-Jul-21	04-Apr-24	1
AS010420a	Provision of 1 Electric Car for the Use of the PM & Supervisor	1534	22-Jan-20 A	03-Apr-24	22-Jul-21	04-Apr-24	1
AS010600	Provision of Photographs	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS010700	Provision of Environmental Mitigation Measures	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS010800	Provision of Air Pollution Abatment	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS010900	Provision of Noise Pollution Abatment	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS011000	Provision of Wastewater Pollution Abatement	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS011100	Provision of Wastement Management	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS011200	Provision of Monitoring the Use of Ultra Low Sulphur Diesel	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS011300	Provision of Environmental Management	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS011400	Provision of Site Management Plan for Trip Ticket System	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS011500	Provision of As-constructed Drawings for Section 3	58	21-Dec-23	16-Feb-24	12-Jan-24	09-Mar-24	22
AS011520a	Provision of As-constructed Drawings for Section 4	55	17-Jan-22	12-Mar-22	17-Jan-22	12-Mar-22	0
AS011540a	Provision of As-constructed Drawings for Section 5	124	07-Nov-23	09-Mar-24	07-Nov-23	09-Mar-24	0
AS011600	Provision of Systematic Risk Management	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS011700	Provision of Site Liaison Group & Community Liaison Group	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS011800	Provision of 24-Hour Telephone Line	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
AS012000	Provision of Upkeeping and Protection of Completed Works	750	13-Mar-22	31-Mar-24	17-Mar-22	04-Apr-24	4
AS012100	Provision of Training for Employer's Staff for Section 3	30	18-Jan-24	16-Feb-24	09-Feb-24	09-Mar-24	22
AS012120a	Provision of Training for Employer's Staff for Section 4	15	26-Feb-22	12-Mar-22	26-Feb-22	12-Mar-22	0
AS012140a	Provision of Training for Employer's Staff for Section 5	30	18-Jan-24	16-Feb-24	09-Feb-24	09-Mar-24	22
AS012300	Prepare & Submit O&M Manual for Section 3	60	15-Nov-23	13-Jan-24	15-Nov-23	13-Jan-24	0
AS012302a	PM Reivew & Comment O&M Manual for Section 3	21	14-Jan-24	03-Feb-24	14-Jan-24	03-Feb-24	0
AS012304a	Revise & Re-submit O&M Manual for Section 3	14	04-Feb-24	17-Feb-24	04-Feb-24	17-Feb-24	0
AS012306a	PM Reivew & Approval of O&M Manual for Section 3	21	18-Feb-24	09-Mar-24	18-Feb-24	09-Mar-24	0
AS012320a	Prepare & Submit O&M Manual for Section 4	30	30-Nov-21	30-Dec-21	17-Dec-21	15-Jan-22	17
AS012322a	PM Reivew & Comment O&M Manual for Section 4	21	30-Dec-21	19-Jan-22	16-Jan-22	05-Feb-22	17
AS012324a	Revise & Re-submit O&M Manual for Section 4	14	20-Jan-22	02-Feb-22	06-Feb-22	19-Feb-22	17
AS012326a	PM Reivew & Approval of O&M Manual for Section 4	21	03-Feb-22	23-Feb-22	20-Feb-22	12-Mar-22	17
AS012340a	Prepare & Submit O&M Manual for Section 5	90	10-Oct-23	07-Jan-24	16-Oct-23	13-Jan-24	6
AS012342a	PM Reivew & Comment O&M Manual for Section 5	21	08-Jan-24	28-Jan-24	14-Jan-24	03-Feb-24	6
AS012344a	Revise & Re-submit O&M Manual for Section 5	14	29-Jan-24	11-Feb-24	04-Feb-24	17-Feb-24	6
AS012346a	PM Reivew & Approval of O&M Manual for Section 5	21	12-Feb-24	03-Mar-24	18-Feb-24	09-Mar-24	6
AS012400	Provision of ICE for Certification of the Design, Cal, Dwgs, Plans and all relevant Doc and Process Commissioning	1596	20-Nov-19 A	02-Apr-24	23-Jul-21	04-Apr-24	2
Site Upkeeping							



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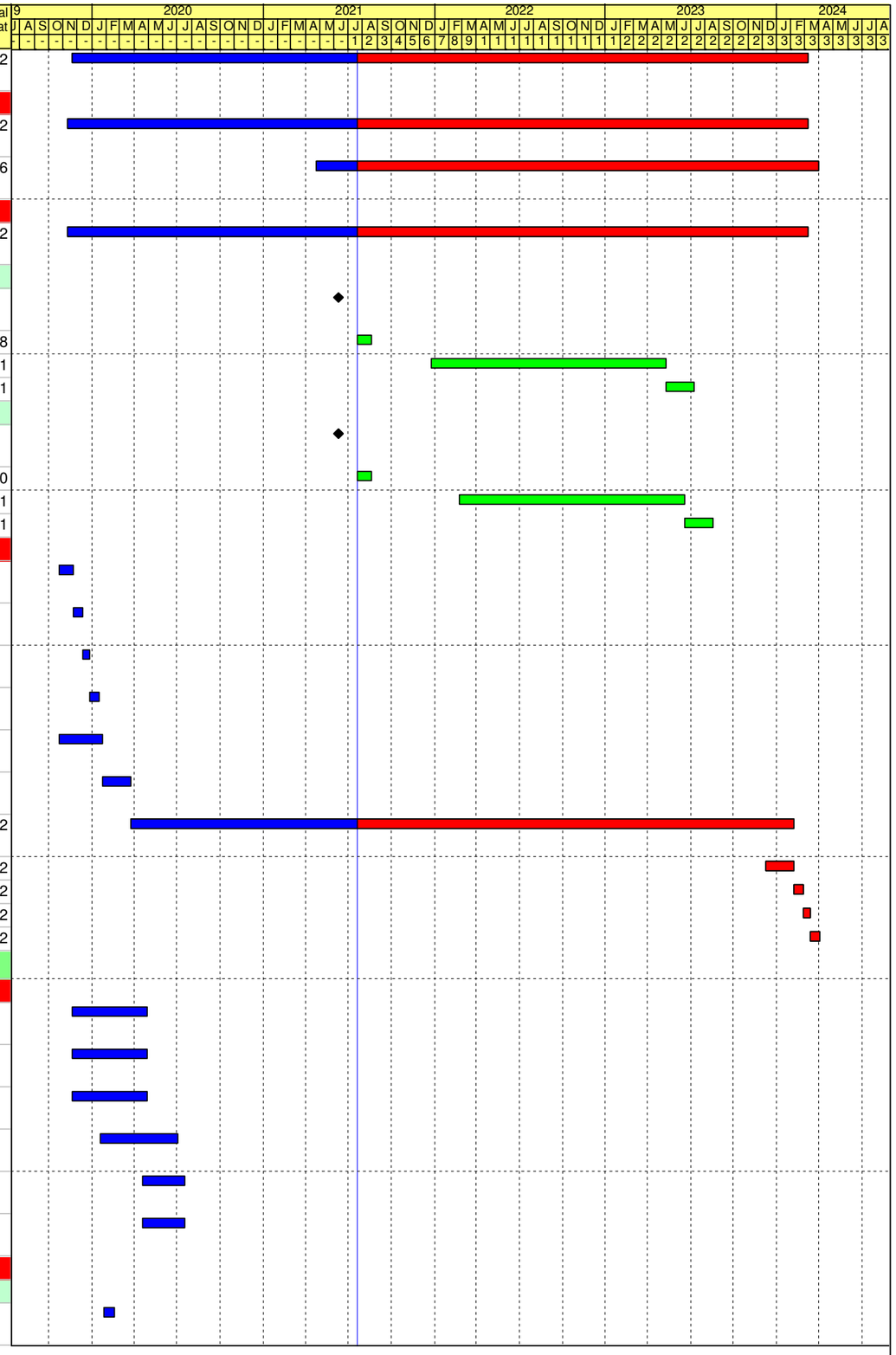
AS013100	General Site Upkeeping of the Site	1570	20-Nov-19 A	07-Mar-24	23-Jul-21	09-Mar-24	2
Safety and Environmental Management							
AS013200	Construction Health and Safety Plan	1580	10-Nov-19 A	07-Mar-24	23-Jul-21	09-Mar-24	2
AS013300	Site Traffic Safety Management Plan	1070	25-Apr-21 A	29-Mar-24	27-Jul-21	04-Apr-24	6
Compliance with BEAM Requirements							
AS013400	BEAM Plus	1580	10-Nov-19 A	07-Mar-24	23-Jul-21	09-Mar-24	2
Sludge Dewatering Building							
AS013410f	Material Submission & Design Calculation Approved	0		11-Jun-21 A		06-Nov-21	
AS013420f	Issued approved submission & Calculation to Cinotech	30	21-Jul-21	19-Aug-21	06-Nov-21	05-Dec-21	108
AS013430f	Monthly Review & Submission	500	26-Dec-21	09-May-23	23-Sep-22	04-Feb-24	271
AS013440f	Submission & Approval of Test Record	60	10-May-23	08-Jul-23	05-Feb-24	04-Apr-24	271
CHP Building							
AS013450f	Material Submission & Design Calculation Approved	0		11-Jun-21 A		07-Jan-22	
AS013460f	Issued approved submission & Calculation to Cinotech	30	21-Jul-21	19-Aug-21	07-Jan-22	05-Feb-22	170
AS013470f	Monthly Review & Submission	480	24-Feb-22	18-Jun-23	13-Oct-22	04-Feb-24	231
AS013480f	Submission & Approval of Test Record	60	19-Jun-23	17-Aug-23	05-Feb-24	04-Apr-24	231
BIM							
AS011820a	Prepare & Submit Construction Stage BIM Execution Plan	30	24-Oct-19 A	22-Nov-19 A	23-Jul-21	23-Jul-21	
AS011830a	PM Reivew & Comment Construction Stage BIM Execution Plan	21	23-Nov-19 A	13-Dec-19 A	23-Jul-21	23-Jul-21	
AS011840a	Revise & Re-submit Construction Stage BIM Execution Plan	14	14-Dec-19 A	27-Dec-19 A	23-Jul-21	23-Jul-21	
AS011850a	PM Reivew & Approval of Construction Stage BIM Execution Plan	21	28-Dec-19 A	17-Jan-20 A	23-Jul-21	23-Jul-21	
AS011880b	Contractor Review & Study Design Stage BIM	92	24-Oct-19 A	23-Jan-20 A	23-Jul-21	23-Jul-21	
AS011900	Contractor Develop 1st Construction Stage BIM	60	24-Jan-20 A	23-Mar-20 A	23-Jul-21	23-Jul-21	
AS011920a	Review & Update BIM Execution Plan & BIM Model	1415	24-Mar-20 A	06-Feb-24	23-Jul-21	08-Feb-24	2
AS011960	Prepare & Submit the Fully Coordinated BIM	60	09-Dec-23	06-Feb-24	11-Dec-23	08-Feb-24	2
AS011961	PM Reivew & Comment Fully Coordinated BIM	21	07-Feb-24	27-Feb-24	09-Feb-24	29-Feb-24	2
AS011962	Revise & Re-submit Fully Coordinated BIM	14	28-Feb-24	12-Mar-24	01-Mar-24	14-Mar-24	2
AS011963	PM Reivew & Approval of Fully Coordinated BIM	21	13-Mar-24	02-Apr-24	15-Mar-24	04-Apr-24	2
Section 1 - Design for UV System No. 1 & Effluent Pumping Station No.1							
Major Plant & Materials Procurement							
AS103100	Procurement & PO for UV Disinfection System (S10)	150	21-Nov-19 A	28-Apr-20 A	21-Jul-21	21-Jul-21	
AS103120	Procurement & PO for Lift-up Pumps (S11)	150	21-Nov-19 A	28-Apr-20 A	21-Jul-21	21-Jul-21	
AS103140	Procurement & PO for Transfer Pumps (S13)	150	21-Nov-19 A	28-Apr-20 A	21-Jul-21	21-Jul-21	
AS103180	Procurement & PO for EOT Cranes (2T & 5T) (S19)	150	19-Jan-20 A	03-Jul-20 A	21-Jul-21	21-Jul-21	
AS103200	Procurement & PO for Stoplogs (S21)	90	18-Apr-20 A	17-Jul-20 A	21-Jul-21	21-Jul-21	
AS103220	Procurement & PO for Penstocks (S21)	90	18-Apr-20 A	17-Jul-20 A	21-Jul-21	21-Jul-21	
Design & Submission							
General Arrangement Drawings							
AS101100	Prepare & Submit General Arrangement Drawings	90	27-Jan-20 A	19-Feb-20 A	21-Jul-21	21-Jul-21	



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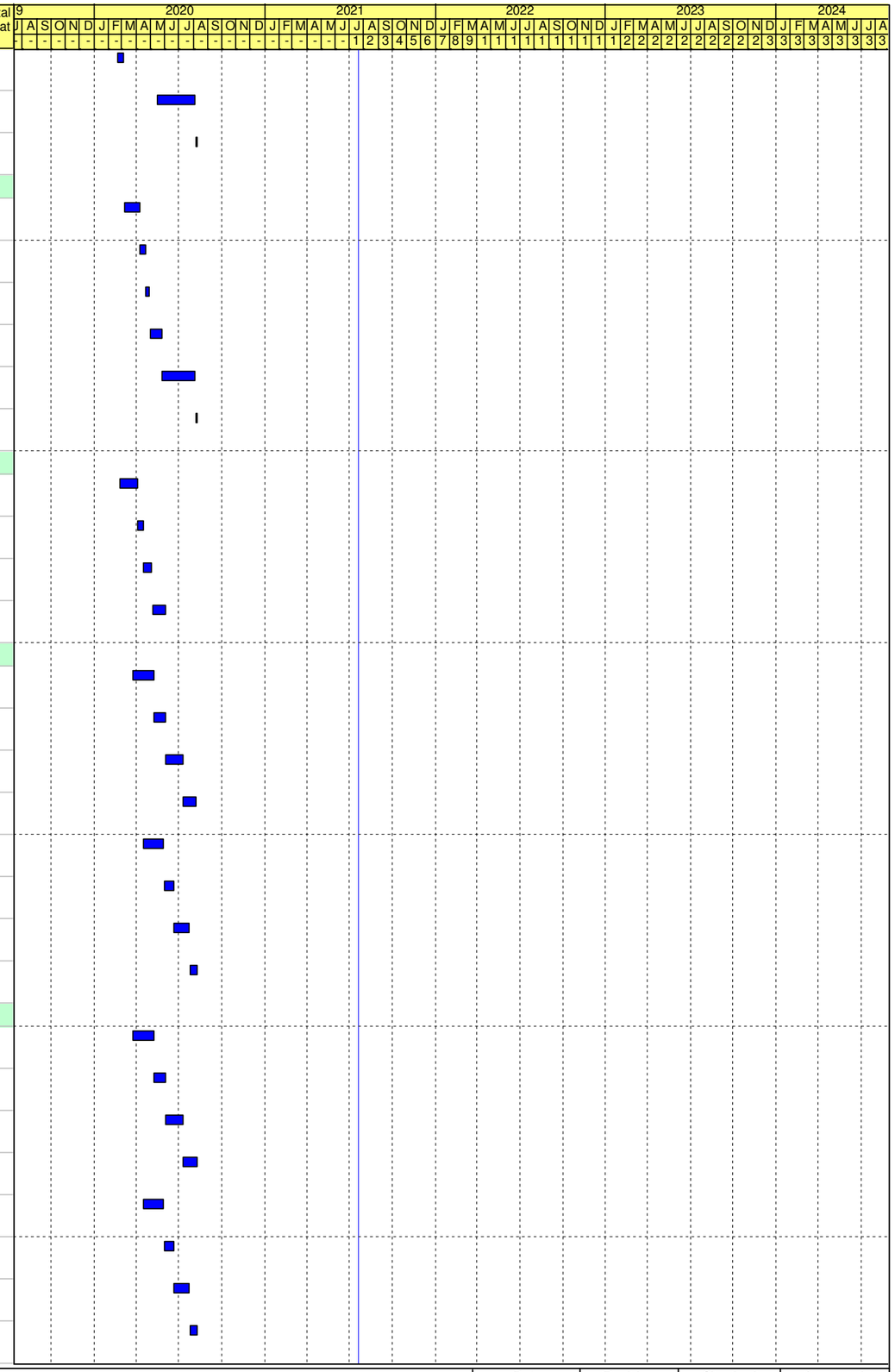
AS101110	Review & Comment on General Arrangement Drawings by PM	21	20-Feb-20 A	04-Mar-20 A	04-Apr-24	04-Apr-24	
AS101120	Revise & Re-submit General Arrangement Drawings	14	16-May-20 A	05-Aug-20 A	04-Apr-24	04-Apr-24	
AS101130	Review & Accept of General Arrangement Drawings by PM	5	06-Aug-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24	
Civil & Dimensional / Tolerance Requirement Drawings							
AS102100	Prepare & Submit Civil Requirement Drawings	60	07-Mar-20 A	08-Apr-20 A	20-Aug-21	20-Aug-21	
AS102110	Review & Comment on Civil Requirement Drawings by PM	21	09-Apr-20 A	20-Apr-20 A	04-Apr-24	04-Apr-24	
AS102120	Revise & Re-submit Civil Requirement Drawings	14	21-Apr-20 A	29-Apr-20 A	04-Apr-24	04-Apr-24	
AS102130	Review & Comment of Civil Requirement Drawings by PM	21	30-Apr-20 A	25-May-20 A	04-Apr-24	04-Apr-24	
AS512140	Revise & Re-submit Civil Requirement Drawings	28	26-May-20 A	05-Aug-20 A	04-Apr-24	04-Apr-24	
AS512150	Review & Accept of Civil Requirement Drawings by PM	5	06-Aug-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24	
Electrical Schematic Drawings							
AS102150	Prepare & Submit Elec. Schematic Drawings	60	25-Feb-20 A	03-Apr-20 A	21-Jul-21	21-Jul-21	
AS102160	Review & Comment on Elec. Schematic Drawings by PM	21	04-Apr-20 A	16-Apr-20 A	21-Jul-21	21-Jul-21	
AS102170	Revise & Re-submit Elec. Schematic Drawings	14	17-Apr-20 A	04-May-20 A	21-Jul-21	21-Jul-21	
AS102180	Review & Accept of Elec. Schematic Drawings by PM	21	05-May-20 A	03-Jun-20 A	21-Jul-21	21-Jul-21	
UV System No. 1							
AS102200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	60	24-Mar-20 A	08-May-20 A	21-Jul-21	21-Jul-21	
AS102210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	09-May-20 A	01-Jun-20 A	04-Apr-24	04-Apr-24	
AS102220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14	02-Jun-20 A	10-Jul-20 A	04-Apr-24	04-Apr-24	
AS102230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	11-Jul-20 A	06-Aug-20 A	04-Apr-24	04-Apr-24	
AS102300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	60	15-Apr-20 A	29-May-20 A	21-Jul-21	21-Jul-21	
AS102310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	30-May-20 A	19-Jun-20 A	20-Aug-21	20-Aug-21	
AS102320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14	20-Jun-20 A	23-Jul-20 A	20-Aug-21	20-Aug-21	
AS102330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14	24-Jul-20 A	08-Aug-20 A	20-Aug-21	20-Aug-21	
Effluent Pumping Station No. 1							
AS112200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	60	24-Mar-20 A	08-May-20 A	21-Jul-21	21-Jul-21	
AS112210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	09-May-20 A	01-Jun-20 A	04-Apr-24	04-Apr-24	
AS112220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14	02-Jun-20 A	10-Jul-20 A	04-Apr-24	04-Apr-24	
AS112230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	11-Jul-20 A	08-Aug-20 A	04-Apr-24	04-Apr-24	
AS112300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	60	15-Apr-20 A	29-May-20 A	21-Jul-21	21-Jul-21	
AS112310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	30-May-20 A	19-Jun-20 A	21-Jul-21	21-Jul-21	
AS112320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14	20-Jun-20 A	23-Jul-20 A	21-Jul-21	21-Jul-21	
AS112330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14	24-Jul-20 A	08-Aug-20 A	21-Jul-21	21-Jul-21	



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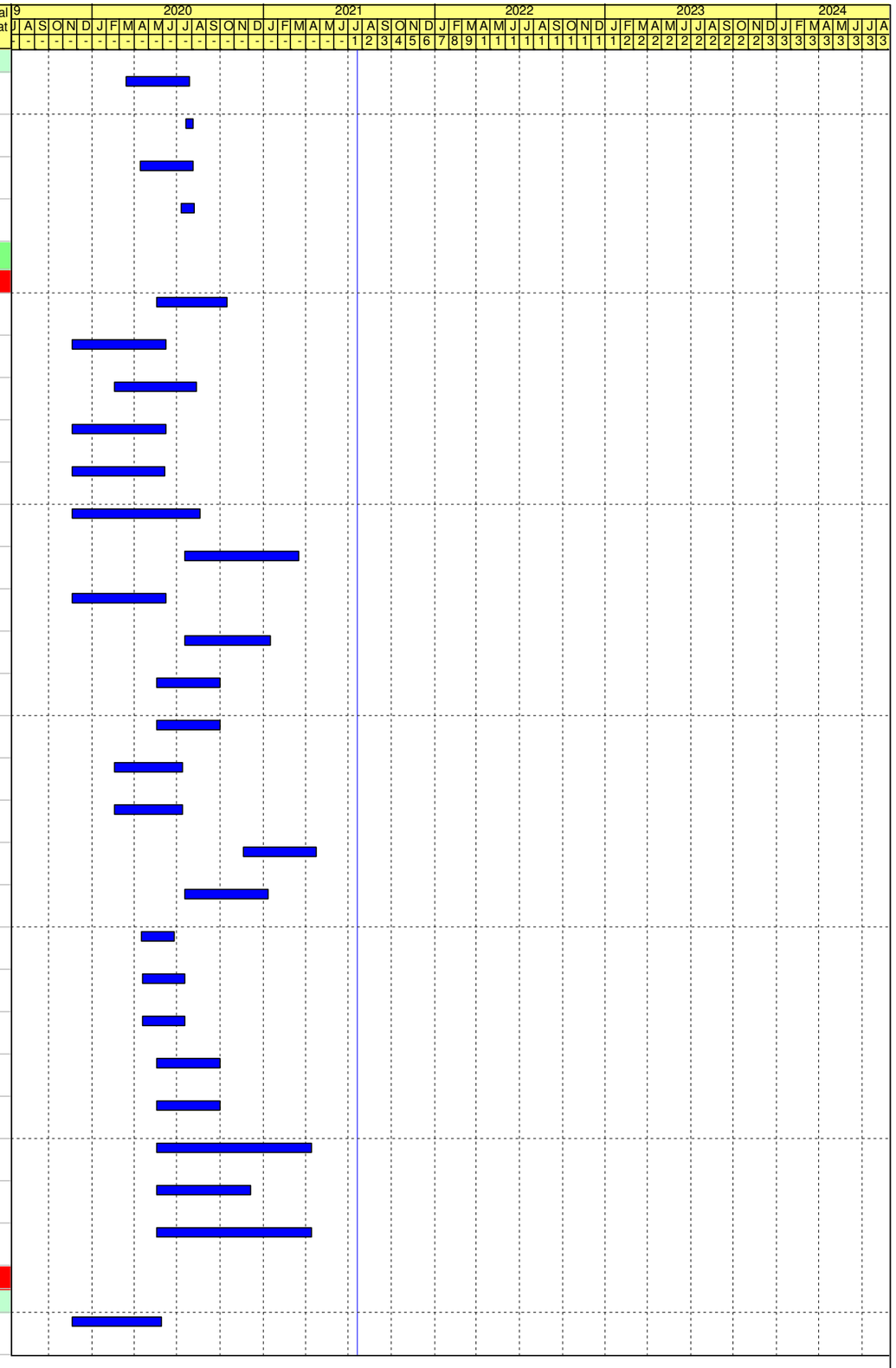
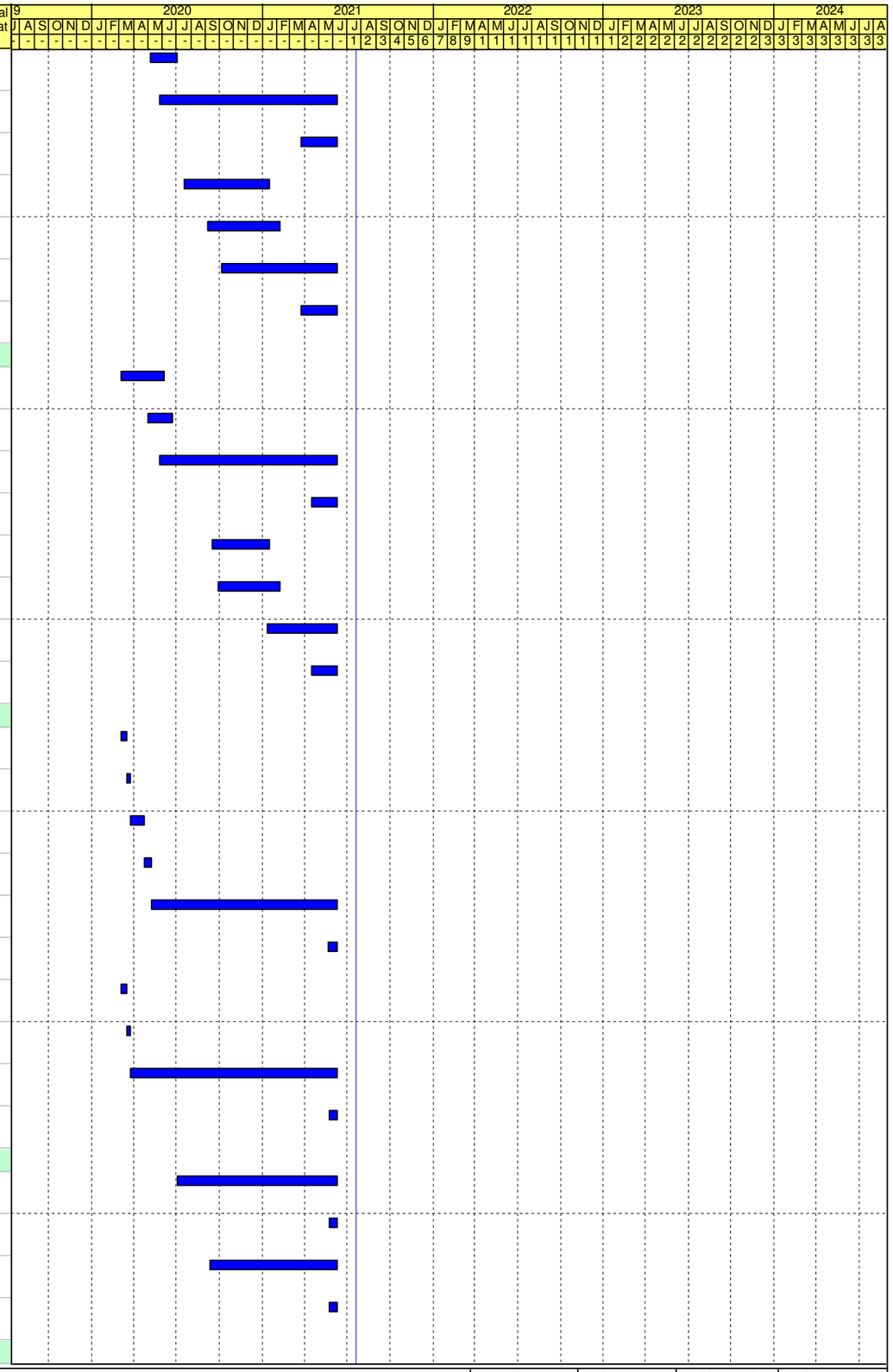
Building Services							
AS113100	Prepare & Submit BS Works Design & Dwgs UV System No.1 & Effluent Pumping Station No.1	90	15-Mar-20 A	27-Jul-20 A	22-Jul-21	22-Jul-21	
AS113160c	Review & Accept of BS Works Design & Dwgs UV System No.1 & Effluent Pumping Station No.1	8	21-Jul-20 A	05-Aug-20 A	21-Aug-21	21-Aug-21	
AS113200	Prepare & Submit FS Works Design & Dwgs UV System No.1 & Effluent Pumping Station No.1	60	14-Apr-20 A	05-Aug-20 A	22-Jul-21	22-Jul-21	
AS113260c	Review & Accept of FS Works Design & Dwgs UV System No.1 & Effluent Pumping Station No.1	8	09-Jul-20 A	06-Aug-20 A	22-Jul-21	22-Jul-21	
Section 2 - Complete All Designs (exclude Sec. 1 & 3)							
Major Plant & Materials Procurement							
AS023100	Procurement & PO for Sludge Screening System (S2)	150	18-May-20 A	16-Oct-20 A	06-Aug-21	06-Aug-21	
AS023120	Procurement & PO for Sludge Thickening System (S3)	180	20-Nov-19 A	08-Jun-20 A	31-Jul-21	31-Jul-21	
AS023140	Procurement & PO for Sludge Digestion System (S5)	150	18-Feb-20 A	12-Aug-20 A	01-Aug-21	01-Aug-21	
AS023160	Procurement & PO for Sludge Dewatering System (S6)	180	20-Nov-19 A	08-Jun-20 A	31-Jul-21	31-Jul-21	
AS023180	Procurement & PO for THP System (S4)	180	20-Nov-19 A	05-Jun-20 A	01-Aug-21	01-Aug-21	
AS023190a	Procurement & PO for Biogas Holding Tanks(S7)	180	20-Nov-19 A	20-Aug-20 A	28-Aug-21	28-Aug-21	
AS023210	Procurement & PO for H2S Removal System (S7)	234	17-Jul-20 A	17-Mar-21 A	04-Mar-22	04-Mar-22	
AS023220	Procurement & PO for CHP System (S8)	180	20-Nov-19 A	08-Jun-20 A	01-Aug-21	01-Aug-21	
AS023240	Procurement & PO for Waste Gas Burning System (S9)	150	17-Jul-20 A	15-Jan-21 A	27-Mar-22	27-Mar-22	
AS023260	Procurement & PO for Plant Service Water System (S12)	150	18-May-20 A	30-Sep-20 A	04-Mar-22	04-Mar-22	
AS023280	Procurement & PO for SAS Pumping System (S14)	150	18-May-20 A	30-Sep-20 A	04-Jan-22	04-Jan-22	
AS023300	Procurement & PO for Transfomers (S17)	150	18-Feb-20 A	13-Jul-20 A	08-Dec-21	08-Dec-21	
AS023320	Procurement & PO for 11 kV Switchboard (S17)	150	18-Feb-20 A	13-Jul-20 A	22-Dec-21	22-Dec-21	
AS023340	Procurement & PO for 380V Switchboard (S17)	174	21-Nov-20 A	23-Apr-21 A	22-Dec-21	22-Dec-21	
AS023380	Procurement & PO for Control & Monitoring System (S18)	183	17-Jul-20 A	11-Jan-21 A	08-Dec-21	08-Dec-21	
AS023420	Procurement & PO for DO System (S21)	150	15-Apr-20 A	24-Jun-20 A	27-Jun-22	27-Jun-22	
AS023440	Procurement & PO for Stoplog (S21)	90	18-Apr-20 A	17-Jul-20 A	07-Sep-21	07-Sep-21	
AS023460	Procurement & PO for Penstock (S21)	90	18-Apr-20 A	17-Jul-20 A	07-Sep-21	07-Sep-21	
AS023480	Procurement & PO for Sewage Pump (S21)	120	18-May-20 A	30-Sep-20 A	19-Jan-22	19-Jan-22	
AS023500	Procurement & PO for Process Water Pump (S21)	120	18-May-20 A	30-Sep-20 A	25-Jul-22	25-Jul-22	
AS023520	Procurement & PO for External Sludge Transfer Pump (S21)	348	18-May-20 A	14-Apr-21 A	27-Sep-22	27-Sep-22	
AS023540	Procurement & PO for THP Cooling Pump (S21)	150	18-May-20 A	04-Dec-20 A	27-Sep-22	27-Sep-22	
AS023600	Procurement & PO for Temporary Primary Sludge Pump (S21)	348	18-May-20 A	14-Apr-21 A	19-May-22	19-May-22	
Design & Submission							
General Arrangement Drawings							
AS020100	Prepare & Submit General Arrangement Drawings (from formation level up to +8mPD)	180	20-Nov-19 A	29-May-20 A	26-Sep-21	26-Sep-21	



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
AS020110	Review & Comment on General Arrangement Drawings by PM (from formation level up to +8mPD)	21	07-May-20 A	02-Jul-20 A	04-Apr-24	04-Apr-24	
AS020120	Revise & Re-submit General Arrangement Drawings (from formation level up to +8mPD)	381	26-May-20 A	10-Jun-21 A	04-Apr-24	04-Apr-24	
AS020130	Review & Accept of General Arrangement Drawings by PM (from formation level up to +8mPD)	77	26-Mar-21 A	11-Jun-21 A	04-Apr-24	04-Apr-24	
AS020140a	Prepare & Submit General Arrangement Drawings (remaining)	177	17-Jul-20 A	15-Jan-21 A	21-Nov-21	21-Nov-21	
AS020150a	Review & Comment on General Arrangement Drawings by PM (remaining)	21	05-Sep-20 A	08-Feb-21 A	21-Nov-21	21-Nov-21	
AS020160a	Revise & Re-submit General Arrangement Drawings (remaining)	248	06-Oct-20 A	10-Jun-21 A	21-Nov-21	21-Nov-21	
AS020170a	Review & Accept of General Arrangement Drawings by PM (remaining)	77	26-Mar-21 A	11-Jun-21 A	21-Nov-21	21-Nov-21	
Civil & Dimensional / Tolerance Requirement Drawings							
AS020200	Prepare & Submit Civil Requirement Drawings (from formation level up to +8mPD) -KD2A	90	04-Mar-20 A	04-Jun-20 A	26-Sep-21	26-Sep-21	
AS020210	Review & Comment on Civil Requirement Drawings by PM (from formation level up to +8mPD)	21	30-Apr-20 A	23-Jun-20 A	26-Sep-21	26-Sep-21	
AS020220	Revise & Re-submit Civil Requirement Drawings (from formation level up to +8mPD)	381	26-May-20 A	10-Jun-21 A	26-Sep-21	26-Sep-21	
AS020230	Review & Accept of Civil Requirement Drawings by PM (from formation level up to +8mPD)	55	17-Apr-21 A	11-Jun-21 A	26-Sep-21	26-Sep-21	
AS020300	Prepare & Submit Civil Requirement Drawings (remaining) -KD2B	120	15-Sep-20 A	15-Jan-21 A	04-Apr-24	04-Apr-24	
AS020310	Review & Comment on Civil Requirement Drawings by PM (remaining)	21	28-Sep-20 A	08-Feb-21 A	04-Apr-24	04-Apr-24	
AS020320	Revise & Re-submit Civil Requirement Drawings (remaining)	150	12-Jan-21 A	10-Jun-21 A	04-Apr-24	04-Apr-24	
AS020330	Review & Accept of Civil Requirement Drawings by PM (remaining)	55	17-Apr-21 A	11-Jun-21 A	04-Apr-24	04-Apr-24	
Electrical Schematic Drawings							
AS021200	Prepare & Elec. Schematic Drawings (from formation level up to +8mPD) -KD2A	90	05-Mar-20 A	16-Mar-20 A	22-Dec-21	22-Dec-21	
AS021210	Review & Comment on Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21	17-Mar-20 A	24-Mar-20 A	22-Dec-21	22-Dec-21	
AS021220	Revise & Re-submit Elec. Schematic Drawings (from formation level up to +8mPD)	28	25-Mar-20 A	23-Apr-20 A	22-Dec-21	22-Dec-21	
AS021230	Review & Comment of Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21	24-Apr-20 A	08-May-20 A	22-Dec-21	22-Dec-21	
AS021240	Revise & Re-submit Elec. Schematic Drawings (from formation level up to +8mPD)	398	09-May-20 A	10-Jun-21 A	04-Apr-24	04-Apr-24	
AS021250	Review & Accept of Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21	21-May-21 A	11-Jun-21 A	04-Apr-24	04-Apr-24	
AS021300	Prepare & Submit Elec. Schematic Drawings (remaining) -KD2B	120	05-Mar-20 A	16-Mar-20 A	22-Dec-21	22-Dec-21	
AS021310	Review & Comment on Elec. Schematic Drawings by PM (remaining)	21	17-Mar-20 A	24-Mar-20 A	22-Dec-21	22-Dec-21	
AS021320	Revise & Re-submit Elec. Schematic Drawings (remaining)	443	25-Mar-20 A	10-Jun-21 A	22-Dec-21	22-Dec-21	
AS021330	Review & Accept of Elec. Schematic Drawings by PM (remaining)	21	24-May-21 A	11-Jun-21 A	22-Dec-21	22-Dec-21	
Sludge Screening (SSc)							
AS022200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	344	02-Jul-20 A	10-Jun-21 A	22-Dec-21	22-Dec-21	
AS022210	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	22-Dec-21	22-Dec-21	
AS022300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	274	10-Sep-20 A	10-Jun-21 A	06-Nov-21	06-Nov-21	
AS022310	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	06-Nov-21	06-Nov-21	
Sludge Thickening (STh)							



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Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities
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29-Mar-21	Rev.8	LT	KM
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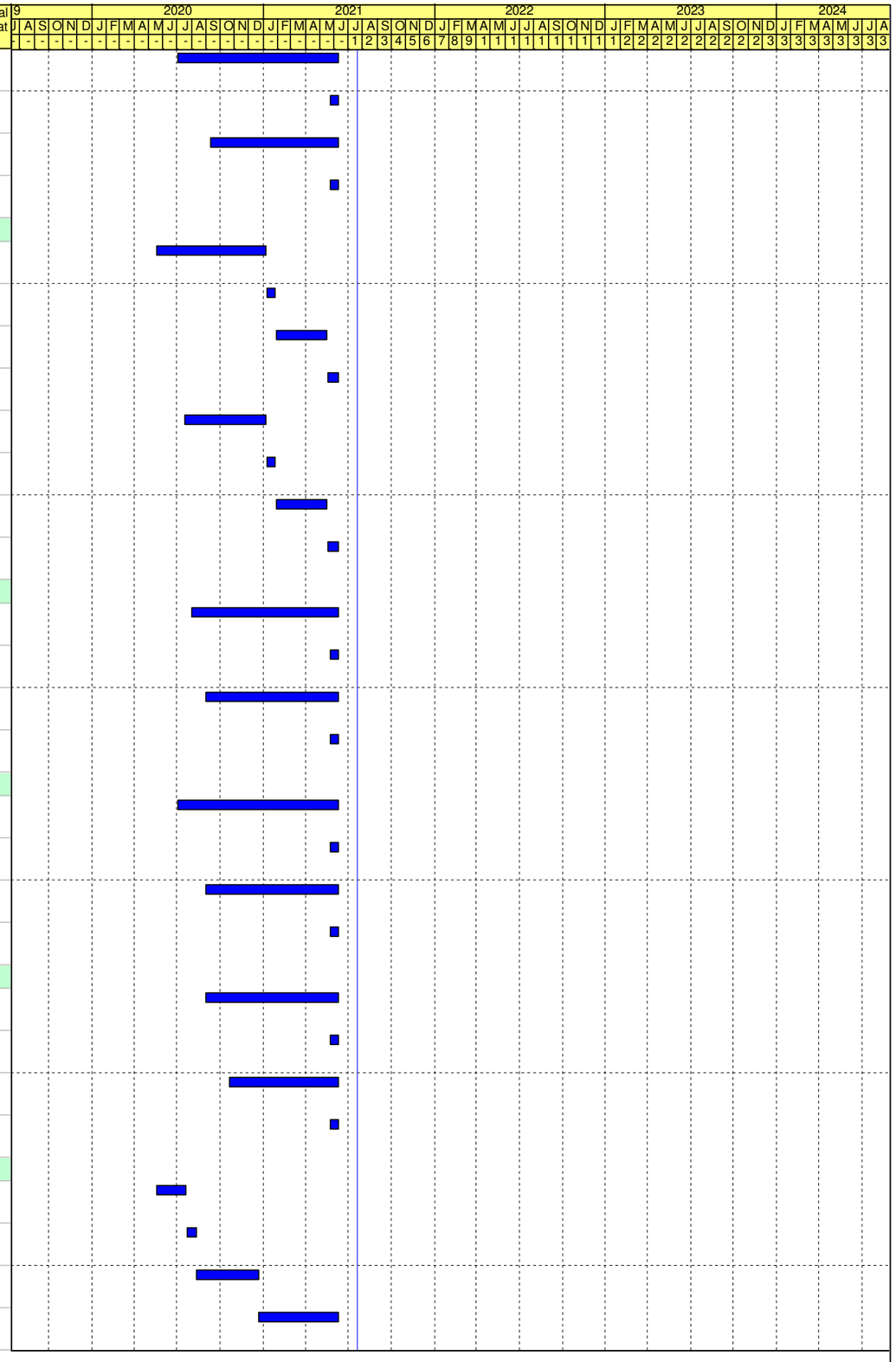
30-Jun-21	Rev.11	LT	KM
31-Jul-21	Rev.12	LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
AS032200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	344	02-Jul-20 A	10-Jun-21 A	04-Mar-22	04-Mar-22	
AS032210	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	04-Mar-22	04-Mar-22	
AS032300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	274	10-Sep-20 A	10-Jun-21 A	13-Oct-21	13-Oct-21	
AS032310	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	13-Oct-21	13-Oct-21	
Thermal Hydrolysis Process (THP)							
AS042200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	241	18-May-20 A	07-Jan-21 A	04-Nov-21	04-Nov-21	
AS042210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	08-Jan-21 A	27-Jan-21 A	04-Nov-21	04-Nov-21	
AS042220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	117	28-Jan-21 A	17-May-21 A	04-Nov-21	04-Nov-21	
AS042230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	24	18-May-21 A	11-Jun-21 A	04-Nov-21	04-Nov-21	
AS042300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180	17-Jul-20 A	07-Jan-21 A	04-Nov-21	04-Nov-21	
AS042310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	08-Jan-21 A	27-Jan-21 A	04-Nov-21	04-Nov-21	
AS042320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	117	28-Jan-21 A	17-May-21 A	04-Nov-21	04-Nov-21	
AS042330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	24	18-May-21 A	11-Jun-21 A	04-Nov-21	04-Nov-21	
Sludge Digestion (SDi)							
AS052200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	314	01-Aug-20 A	10-Jun-21 A	04-Mar-22	04-Mar-22	
AS052210	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	04-Mar-22	04-Mar-22	
AS052300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	284	31-Aug-20 A	10-Jun-21 A	31-Oct-21	31-Oct-21	
AS052310	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	31-Oct-21	31-Oct-21	
Sludge Dewatering (SDe)							
AS062200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	344	02-Jul-20 A	10-Jun-21 A	04-Mar-22	04-Mar-22	
AS062210	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	04-Mar-22	04-Mar-22	
AS062300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	284	31-Aug-20 A	10-Jun-21 A	31-Jul-21	31-Jul-21	
AS062310	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	31-Jul-21	31-Jul-21	
Biogas Storage & Pre-Treatment (BSPT)							
AS072200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	284	31-Aug-20 A	10-Jun-21 A	04-Mar-22	04-Mar-22	
AS072210	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	04-Mar-22	04-Mar-22	
AS072300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	232	22-Oct-20 A	10-Jun-21 A	28-Aug-21	28-Aug-21	
AS072310	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	28-Aug-21	28-Aug-21	
Combined Heat & Power Generation (CHP)							
AS082200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	233	18-May-20 A	21-Jul-20 A	10-Jan-22	10-Jan-22	
AS082210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	22-Jul-20 A	11-Aug-20 A	10-Jan-22	10-Jan-22	
AS082220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	12-Aug-20 A	21-Dec-20 A	04-Mar-22	04-Mar-22	
AS082230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	171	22-Dec-20 A	11-Jun-21 A	04-Mar-22	04-Mar-22	



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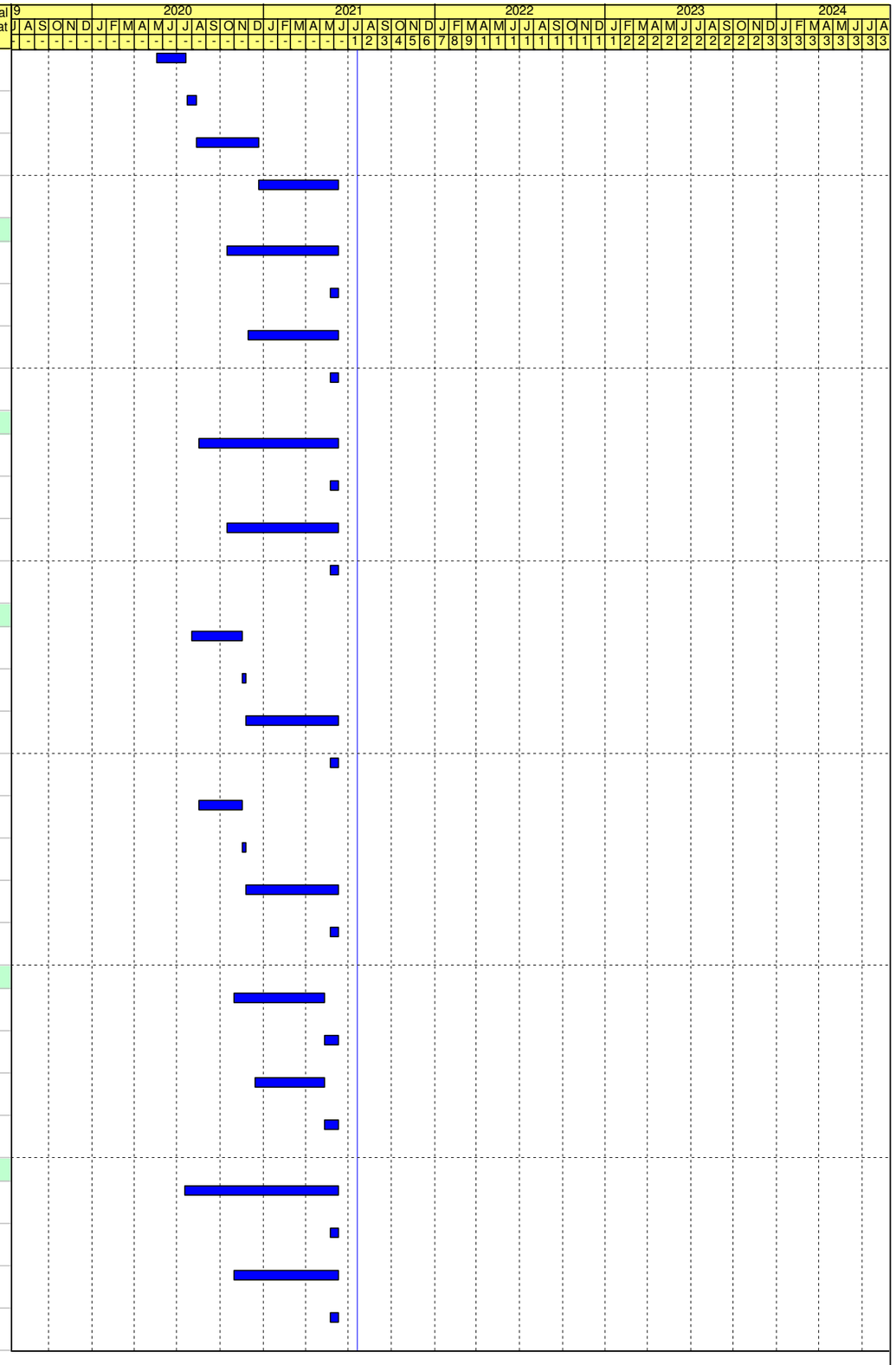
31-Jul-21	Rev.12	LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
AS082300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180	18-May-20 A	21-Jul-20 A	01-Aug-21	01-Aug-21	
AS082310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	22-Jul-20 A	11-Aug-20 A	01-Aug-21	01-Aug-21	
AS082320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	12-Aug-20 A	21-Dec-20 A	01-Aug-21	01-Aug-21	
AS082330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	171	22-Dec-20 A	11-Jun-21 A	01-Aug-21	01-Aug-21	
Waste Gas Burning System (WGB)							
AS092200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	239	15-Oct-20 A	10-Jun-21 A	04-Mar-22	04-Mar-22	
AS092210	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	04-Mar-22	04-Mar-22	
AS092300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	194	29-Nov-20 A	10-Jun-21 A	27-Mar-22	27-Mar-22	
AS092310	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	27-Mar-22	27-Mar-22	
Plant Service Water System (PSW)							
AS122200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	299	16-Aug-20 A	10-Jun-21 A	04-Mar-22	04-Mar-22	
AS122210	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	04-Mar-22	04-Mar-22	
AS122300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	239	15-Oct-20 A	10-Jun-21 A	23-Sep-22	23-Sep-22	
AS122310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	23-Sep-22	23-Sep-22	
Surplus Activated Sludge Pumping Station (SAS)							
AS142200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	202	01-Aug-20 A	17-Nov-20 A	04-Apr-24	04-Apr-24	
AS142210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	18-Nov-20 A	24-Nov-20 A	04-Apr-24	04-Apr-24	
AS142220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	198	25-Nov-20 A	10-Jun-21 A	04-Apr-24	04-Apr-24	
AS142230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	04-Apr-24	04-Apr-24	
AS142300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	183	16-Aug-20 A	17-Nov-20 A	04-Jan-22	04-Jan-22	
AS142310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	18-Nov-20 A	24-Nov-20 A	04-Jan-22	04-Jan-22	
AS142320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	198	25-Nov-20 A	10-Jun-21 A	04-Jan-22	04-Jan-22	
AS142330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	04-Jan-22	04-Jan-22	
Control and Monitoring System							
AS182200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	193	30-Oct-20 A	11-May-21 A	04-Apr-24	04-Apr-24	
AS182210	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	30	12-May-21 A	11-Jun-21 A	04-Apr-24	04-Apr-24	
AS182300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	148	14-Dec-20 A	11-May-21 A	08-Dec-21	08-Dec-21	
AS182310	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	30	12-May-21 A	11-Jun-21 A	08-Dec-21	08-Dec-21	
Lifting Appliances							
AS192200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	329	17-Jul-20 A	10-Jun-21 A	23-Aug-21	23-Aug-21	
AS192210	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	23-Aug-21	23-Aug-21	
AS192300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	224	30-Oct-20 A	10-Jun-21 A	23-Aug-21	23-Aug-21	
AS192310	Review & Acceptt on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	23-Aug-21	23-Aug-21	



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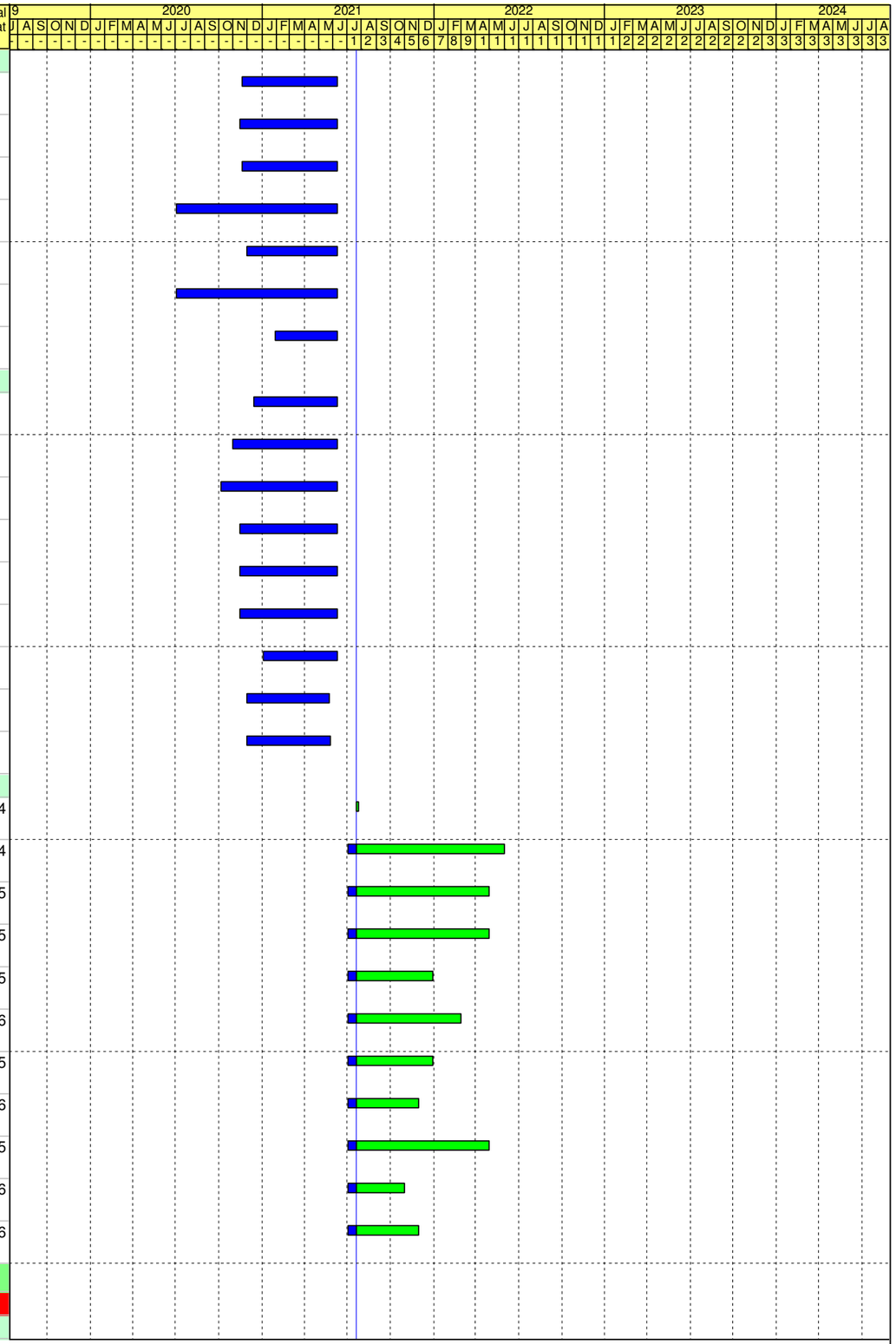
31-Jul-21	Rev.12	LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
Building Services							
AS201100	Submit & Accept BS Works Design & Dwgs for Sludge Dewatering Building	202	21-Nov-20 A	11-Jun-21 A	10-Jan-22	10-Jan-22	
AS201200	Submit & Accept BS Works Design & Dwgs for CHP Building	209	14-Nov-20 A	11-Jun-21 A	10-Jan-22	10-Jan-22	
AS201300	Submit & Accept BS Works Design & Dwgs for Sludge Digester & Distribution Chamber	202	21-Nov-20 A	11-Jun-21 A	10-Jan-22	10-Jan-22	
AS201500	Submit & Accept BS Works Design & Dwgs for Workshop No. 2	344	02-Jul-20 A	11-Jun-21 A	10-Jan-22	10-Jan-22	
AS201700	Submit & Accept BS Works Design & Dwgs for Other Facilities	194	29-Nov-20 A	11-Jun-21 A	10-Jan-22	10-Jan-22	
AS201800	Submit & Accept BS Works Design & Dwgs for FS Installation	344	02-Jul-20 A	11-Jun-21 A	10-Jan-22	10-Jan-22	
AS201900	Submit & Accept BS Works Design & Dwgs for Outdoor Lighting Installation	134	28-Jan-21 A	11-Jun-21 A	04-Apr-24	04-Apr-24	
Miscellaneous							
AS211100	Submit & Accept Design & Dwgs for DO System	179	14-Dec-20 A	11-Jun-21 A	27-Jun-22	27-Jun-22	
AS211200	Submit & Accept Design & Dwgs for Sewage Pumping Station	224	30-Oct-20 A	11-Jun-21 A	19-Jan-22	19-Jan-22	
AS211300	Submit & Accept Design & Dwgs for Process Water Pumping System	249	05-Oct-20 A	11-Jun-21 A	25-Jul-22	25-Jul-22	
AS211400	Submit & Accept Design & Dwgs for External Sludge Transfer Pumping System	209	14-Nov-20 A	11-Jun-21 A	27-Sep-22	27-Sep-22	
AS211500	Submit & Accept Design & Dwgs for THP Cooling Water Pumping Station	209	14-Nov-20 A	10-Jun-21 A	27-Sep-22	27-Sep-22	
AS211600	Submit & Accept Design & Dwgs for Ferric Chloride Dosing System	209	14-Nov-20 A	11-Jun-21 A	19-Apr-22	19-Apr-22	
AS211700	Submit & Accept Design & Dwgs for Temporary Primary Sludge Pumping Facility	158	04-Jan-21 A	11-Jun-21 A	19-May-22	19-May-22	
AS211800	Submit & Accept Design & Dwgs for Gas Detection System	194	29-Nov-20 A	24-May-21 A	21-Aug-22	21-Aug-22	
AS211900	Submit & Accept Design & Dwgs for CCTV System	194	29-Nov-20 A	26-May-21 A	04-Apr-24	04-Apr-24	
Outstanding Works							
AS211950i	Certifiate of Completion - Section 2 of the works (Ref: RCYK:ccm:60427128/92-2021004626w)	5	21-Jul-21	25-Jul-21	31-Mar-24	04-Apr-24	984
AS212000i	Provide ICE Certificate for all design, calculations, drawings, plans & relevant documents	334	02-Jul-21 A	31-May-22	26-May-23	04-Apr-24	674
AS212010i	Submit finalized design calculations, drawings & material submissions for BS systems	303	02-Jul-21 A	30-Apr-22	26-Jun-23	04-Apr-24	705
AS212020i	Submit finalized design calculations, drawings & material submissions for Electrical systems	303	02-Jul-21 A	30-Apr-22	26-Jun-23	04-Apr-24	705
AS212030i	Submit finalized design calculations, drawings & material submissions for ELV systems	183	02-Jul-21 A	31-Dec-21	24-Oct-23	04-Apr-24	825
AS212040i	Submit finalized design, configuration & PLC and MCC panel design for Facility Computerized Systems	242	02-Jul-21 A	28-Feb-22	26-Aug-23	04-Apr-24	766
AS212050i	Submit finalized design & philosophy for Process Instrumentation	183	02-Jul-21 A	31-Dec-21	24-Oct-23	04-Apr-24	825
AS212060i	Submit finalized Process Design Submission	152	02-Jul-21 A	30-Nov-21	24-Nov-23	04-Apr-24	856
AS212070i	Submit finalized acoustic and noise calculations for all equipment	303	02-Jul-21 A	30-Apr-22	26-Jun-23	04-Apr-24	705
AS212080i	Submit finalized design of THP feeding system	122	02-Jul-21 A	31-Oct-21	24-Dec-23	04-Apr-24	886
AS212090i	Submit finalized design of the centrifuge discharge system	152	02-Jul-21 A	30-Nov-21	24-Nov-23	04-Apr-24	856
Section 3 - Complete Design, Construction & T&C for Sidestream Facilities							
Major Subcontractor / Supplier Procurement							
Design							



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31-Jul-21	Rev.12	LT	KM

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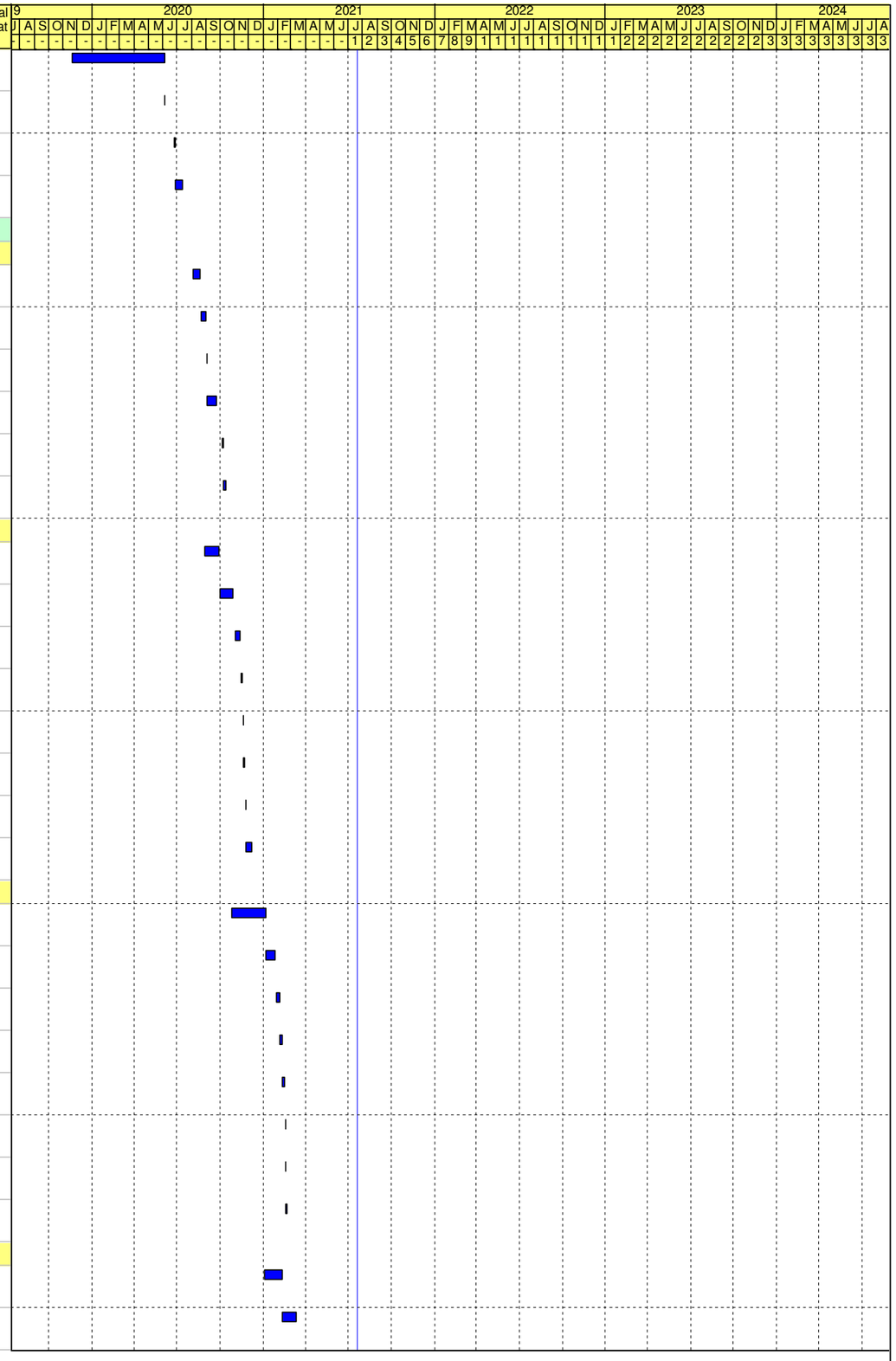
AS160020	Procurement & PO for Deammonification Sidestream Treatment Facilities	200	20-Nov-19 A	05-Jun-20 A	27-Jul-21	27-Jul-21	
AS512260e	E&M (Process) Designer Award	1	05-Jun-20 A	05-Jun-20 A	04-Apr-24	04-Apr-24	
AS512270e	Civil & BS Designer Award	1	26-Jun-20 A	26-Jun-20 A	04-Apr-24	04-Apr-24	
AS512280e	Mobilisation	14	27-Jun-20 A	12-Jul-20 A	04-Apr-24	04-Apr-24	
Civil & Building Contractor							
For Site Clearance & Survey							
AS512290e	Submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	05-Aug-20 A	20-Aug-20 A	21-Jul-21	21-Jul-21	
AS512300e	Review & Comment the Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	21-Aug-20 A	01-Sep-20 A	21-Jul-21	21-Jul-21	
AS512310e	Re-submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	02-Sep-20 A	02-Sep-20 A	21-Jul-21	21-Jul-21	
AS512320e	Review & Accept Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	03-Sep-20 A	23-Sep-20 A	21-Jul-21	21-Jul-21	
AS512330e	Civil Contractor (Site Clearance & Survey) Award	1	07-Oct-20 A	07-Oct-20 A	21-Jul-21	21-Jul-21	
AS512340e	Mobilisation	5	08-Oct-20 A	12-Oct-20 A	21-Jul-21	21-Jul-21	
For Ground Investigation							
AS512350e	Submit Tender proprosal of Civil Contractor (Ground Investigation)	14	29-Aug-20 A	29-Sep-20 A	21-Jul-21	21-Jul-21	
AS512360	Review & Accept the Tender proprosal of Civil Contractor (Ground Investigation)	21	30-Sep-20 A	27-Oct-20 A	21-Jul-21	21-Jul-21	
AS512370e	Tender Invitation of Civil Contractor (Ground Investigation)	7	02-Nov-20 A	13-Nov-20 A	21-Jul-21	21-Jul-21	
AS512380e	Submission of Tender Report	7	14-Nov-20 A	18-Nov-20 A	21-Jul-21	21-Jul-21	
AS512390e	Review & Accept the Tender Report by PM	21	19-Nov-20 A	19-Nov-20 A	21-Jul-21	21-Jul-21	
AS512400e	Contract Preparation	3	20-Nov-20 A	23-Nov-20 A	21-Jul-21	21-Jul-21	
AS512410e	Civil Contractor (Ground Investigation) Award	1	24-Nov-20 A	24-Nov-20 A	21-Jul-21	21-Jul-21	
AS512420e	Mobilisation	7	25-Nov-20 A	08-Dec-20 A	21-Jul-21	21-Jul-21	
For Pre-drilling & Post-drilling							
AS512430e	Submit Tender proprosal of Civil Contractor (Pre-drilling & Post-drilling)	74	26-Oct-20 A	06-Jan-21 A	21-Jul-21	21-Jul-21	
AS512440e	Review & Accept the Tender proprosal of Civil Contractor (Predril & Proof dril)	21	07-Jan-21 A	27-Jan-21 A	21-Jul-21	21-Jul-21	
AS512450e	Tender Invitation of Civil Contractor (Pre-drilling & Post-drilling)	14	28-Jan-21 A	04-Feb-21 A	21-Jul-21	21-Jul-21	
AS512460e	Submission of Tender Report	4	05-Feb-21 A	10-Feb-21 A	21-Jul-21	21-Jul-21	
AS512470e	Review & Accept the Tender Report by PM	21	11-Feb-21 A	16-Feb-21 A	21-Jul-21	21-Jul-21	
AS512480e	Contract Preparation	3	17-Feb-21 A	17-Feb-21 A	21-Jul-21	21-Jul-21	
AS512490e	Civil Contractor (Pre-drilling & Post-drilling) Award	1	18-Feb-21 A	18-Feb-21 A	21-Jul-21	21-Jul-21	
AS512500e	Mobilisation	3	19-Feb-21 A	21-Feb-21 A	21-Jul-21	21-Jul-21	
For Piling							
AS512510f	Submit Tender proprosal of Civil Contractor (Piling)	39	04-Jan-21 A	10-Feb-21 A	21-Jul-21	21-Jul-21	
AS512520f	Review & Accept the Tender proprosal of Civil Contractor (Piling)	25	11-Feb-21 A	12-Mar-21 A	21-Jul-21	21-Jul-21	



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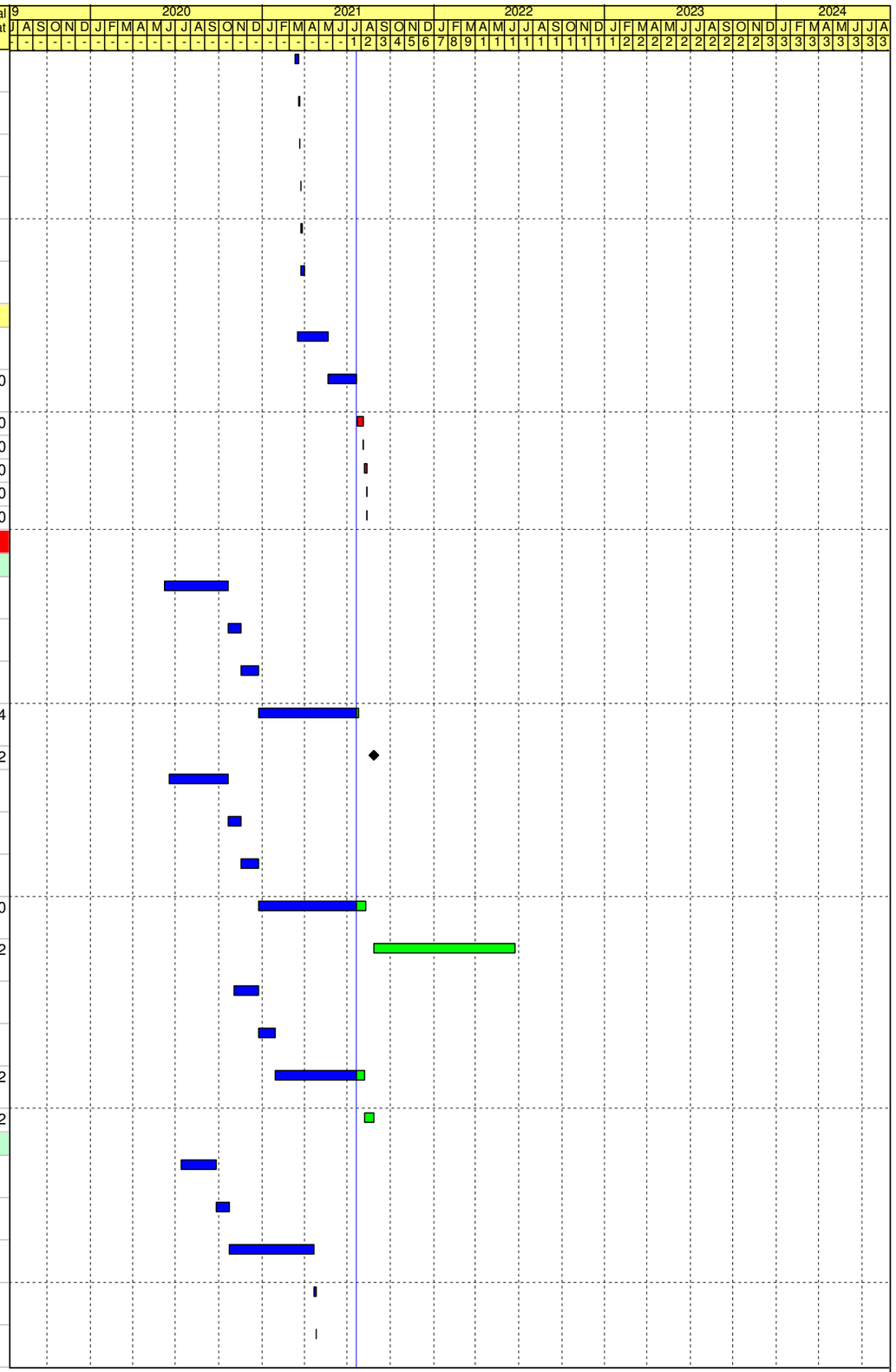
AS512530f	Tender Invitation of Civil Contractor (Piling)	14	12-Mar-21 A	19-Mar-21 A	21-Jul-21	21-Jul-21	
AS512540f	Submission of Tender Report	7	20-Mar-21 A	22-Mar-21 A	21-Jul-21	21-Jul-21	
AS512550f	Review & Accept the Tender Report by PM	21	23-Mar-21 A	23-Mar-21 A	21-Jul-21	21-Jul-21	
AS512560f	Contract Preparation	3	24-Mar-21 A	25-Mar-21 A	21-Jul-21	21-Jul-21	
AS512570f	Civil Contractor (Piling) Award	1	26-Mar-21 A	26-Mar-21 A	21-Jul-21	21-Jul-21	
AS512580f	Mobilisation	3	26-Mar-21 A	01-Apr-21 A	21-Jul-21	21-Jul-21	
For Main Civil Works							
AS512590f	Submit Tender proprosal of Civil Contractor (Main Civil Works)	30	17-Mar-21 A	21-May-21 A	21-Jul-21	21-Jul-21	
AS512600f	Review & Accept the Tender proprosal of Civil Contractor (Main Civil Works)	42	22-May-21 A	21-Jul-21	21-Jul-21	21-Jul-21	0
AS512610f	Tender Invitation of Civil Contractor (Main Civil Works)	14	22-Jul-21	04-Aug-21	22-Jul-21	04-Aug-21	0
AS512620f	Submission of Tender Report	1	05-Aug-21	05-Aug-21	05-Aug-21	05-Aug-21	0
AS512630f	Review & Accept the Tender Report by PM	6	06-Aug-21	11-Aug-21	06-Aug-21	11-Aug-21	0
AS512640f	Contract Preparation	1	12-Aug-21	12-Aug-21	12-Aug-21	12-Aug-21	0
AS512650f	Civil Contractor (Main Civil Works) Award	1	13-Aug-21	13-Aug-21	13-Aug-21	13-Aug-21	0
Design & Submission							
Architectural							
AS160100	Prepare & Submit Building Layout Plan	60	07-Jun-20 A	21-Oct-20 A	29-Apr-22	29-Apr-22	
AS160110	Review & Comment on Buildingl Layout Plan by PM	67	22-Oct-20 A	17-Nov-20 A	31-May-22	31-May-22	
AS160120	Revise & Re-submit Building Layout Plan	28	18-Nov-20 A	24-Dec-20 A	31-May-22	31-May-22	
AS160130	Review & Accept of Building Layout Plan by PM	214	25-Dec-20 A	26-Jul-21	31-May-22	05-Jun-22	314
AS160190e	Coordination Meeting with DSD (Employer) for the Architectural Drawing	0		27-Aug-21		05-Jun-22	282
AS160200	Prepare & Submit Architectural Design / Drawings	60	17-Jun-20 A	21-Oct-20 A	17-May-22	17-May-22	
AS160210	Review & Comment on Architectural Design / Drawings by PM	67	22-Oct-20 A	17-Nov-20 A	17-May-22	17-May-22	
AS160220	Revise & Re-submit Architectural Design / Drawings	28	18-Nov-20 A	24-Dec-20 A	17-May-22	17-May-22	
AS160230	Review & Accept of Architectural Design / Drawings by PM	228	25-Dec-20 A	09-Aug-21	17-May-22	05-Jun-22	300
AS160240	Review & Accept of Architectural Design / Drawings by DSD (ind. VCAB) & DAP of ArchSD	300	28-Aug-21	23-Jun-22	06-Jun-22	01-Apr-23	282
AS160500	Prepare & Submit ABWF Works Drawings	68	03-Nov-20 A	24-Dec-20 A	29-Apr-22	29-Apr-22	
AS160510	Review & Comment on ABWF Works Drawings by PM	21	25-Dec-20 A	29-Jan-21 A	29-Apr-22	29-Apr-22	
AS160520	Revise & Re-submit ABWF Works Drawings	189	30-Jan-21 A	06-Aug-21	29-Apr-22	15-May-22	282
AS160530	Review & Accept of ABWF Works Drawings by PM	21	07-Aug-21	27-Aug-21	16-May-22	05-Jun-22	282
Civil / Structural							
AS160240e	Prepare & Submit Loading Plan to ICE	60	13-Jul-20 A	25-Sep-20 A	31-Dec-21	31-Dec-21	
AS160250e	Review & Comment on Loading Plan by ICE	14	26-Sep-20 A	23-Oct-20 A	31-Dec-21	31-Dec-21	
AS160260e	Revise & Re-submit Loading Plan to ICE	175	24-Oct-20 A	20-Apr-21 A	31-Dec-21	31-Dec-21	
AS160270e	Review & Accept of Loading Plan by ICE	7	21-Apr-21 A	26-Apr-21 A	31-Dec-21	31-Dec-21	
AS160280e	Prepare & Submit Loading Plan to PM	7	27-Apr-21 A	27-Apr-21 A	31-Dec-21	31-Dec-21	



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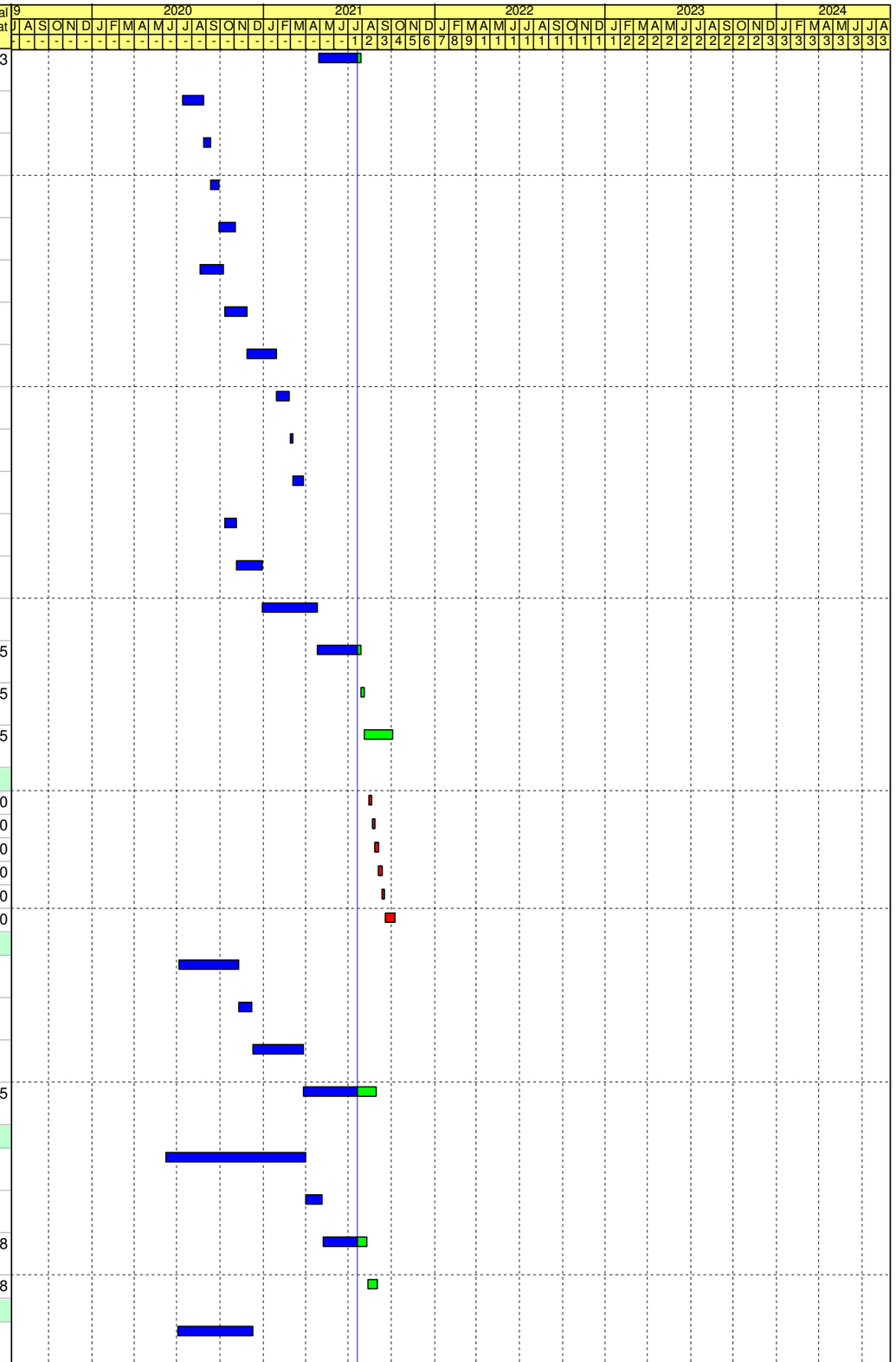
AS160290e	Review & Accept of Loading Plan by PM & DSD (incl. BCM)	91	28-Apr-21 A	27-Jul-21	31-Dec-21	06-Jan-22	163
AS160292e	Prepare & Submit GI Plan	60	13-Jul-20 A	26-Aug-20 A	21-Jul-21	21-Jul-21	
AS160294e	Review & Comment on GI Plan by PM	14	27-Aug-20 A	10-Sep-20 A	21-Jul-21	21-Jul-21	
AS160296e	Revise & Re-submit GI Plan	7	11-Sep-20 A	28-Sep-20 A	21-Jul-21	21-Jul-21	
AS160298e	Review & Accept of GI Plan by PM	21	29-Sep-20 A	02-Nov-20 A	21-Jul-21	21-Jul-21	
AS160300	Prepare & Submit Foundation Design / Drawings to ICE & PM	60	20-Aug-20 A	09-Oct-20 A	21-Jul-21	21-Jul-21	
AS160310	Review & Comment on Foundation Design / Drawings by ICE & PM	79	10-Oct-20 A	27-Nov-20 A	04-Apr-24	04-Apr-24	
AS160320	Revise & Re-submit Foundation Design / Drawings to ICE & PM	14	28-Nov-20 A	29-Jan-21 A	04-Apr-24	04-Apr-24	
AS160330	Review & Accept of Foundation Design / Drawings by ICE & PM	10	30-Jan-21 A	26-Feb-21 A	04-Apr-24	04-Apr-24	
AS160340e	Prepare & Submit Foundation Design / Drawings to DSD (incl. BCM)	7	27-Feb-21 A	05-Mar-21 A	04-Apr-24	04-Apr-24	
AS160350e	Review & Accept of Foundation Design / Drawings by DSD (incl. BCM)	45	06-Mar-21 A	26-Mar-21 A	04-Apr-24	04-Apr-24	
AS160400	Prepare & Submit Substructure / Superstructure Design / Drawings to ICE & PM	25	10-Oct-20 A	05-Nov-20 A	21-Jul-21	21-Jul-21	
AS160410	Review & Comment on Substructure / Superstructure Design / Drawings by ICE & PM	55	06-Nov-20 A	30-Dec-20 A	24-Oct-21	24-Oct-21	
AS160420	Revise & Re-submit Substructure / Superstructure Design / Drawings to ICE & PM	72	31-Dec-20 A	26-Apr-21 A	24-Oct-21	24-Oct-21	
AS160430	Review & Accept of Substructure / Superstructure Design / Drawings by ICE & PM	93	27-Apr-21 A	28-Jul-21	24-Oct-21	31-Oct-21	95
AS160440e	Prepare & Submit Substructure / Superstructure Design / Drawings to DSD (incl. BCM)	7	29-Jul-21	04-Aug-21	01-Nov-21	07-Nov-21	95
AS160450e	Review & Accept of Substructure / Superstructure Design / Drawings by DSD (incl. BCM)	60	05-Aug-21	03-Oct-21	08-Nov-21	06-Jan-22	95
ELS							
AS512160e	Prepare & Submit ELS Plan to ICE	7	14-Aug-21	20-Aug-21	14-Aug-21	20-Aug-21	0
AS512170e	Review & Comment on ELS Plan by ICE	7	21-Aug-21	27-Aug-21	21-Aug-21	27-Aug-21	0
AS512180e	Revise & Re-submit ELS Plan to ICE	7	28-Aug-21	03-Sep-21	28-Aug-21	03-Sep-21	0
AS512190e	Review & Accept of ELS Plan by ICE	7	04-Sep-21	10-Sep-21	04-Sep-21	10-Sep-21	0
AS512200e	Prepare & Submit ELS Plan to PM	7	11-Sep-21	17-Sep-21	11-Sep-21	17-Sep-21	0
AS512210e	Review & Accept of ELS Plan by PM	21	18-Sep-21	08-Oct-21	18-Sep-21	08-Oct-21	0
Process Design							
AS512220e	Prepare & Submit E&M Works (Process) Design Drawings	198	06-Jul-20 A	10-Nov-20 A	22-May-22	22-May-22	
AS512230e	Review & Comment on E&M Works (Process) Design Drawings by PM	21	11-Nov-20 A	08-Dec-20 A	22-May-22	22-May-22	
AS512240e	Revise & Re-submit E&M Works (Process) Design Drawings	87	09-Dec-20 A	26-Mar-21 A	22-May-22	22-May-22	
AS512250e	Review & Accept of E&M Works (Process) Design Drawings by PM	157	27-Mar-21 A	30-Aug-21	22-May-22	01-Jul-22	305
E&M Design							
AS151100	Prepare & Submit General Arrangement Drawings	298	07-Jun-20 A	31-Mar-21 A	09-Oct-21	09-Oct-21	
AS151110	Review & Comment on General Arrangement Drawings by PM	37	01-Apr-21 A	07-May-21 A	26-Nov-21	26-Nov-21	
AS151120	Revise & Re-submit General Arrangement Drawings	95	08-May-21 A	10-Aug-21	26-Nov-21	16-Dec-21	128
AS151130	Review & Accept of General Arrangement Drawings by PM	21	11-Aug-21	31-Aug-21	17-Dec-21	06-Jan-22	128
BS							
AS201400	Prepare & Submit BS Works Design & Dwgs for Sidestream Treatment Facilities	264	03-Jul-20 A	10-Dec-20 A	15-Aug-22	15-Aug-22	



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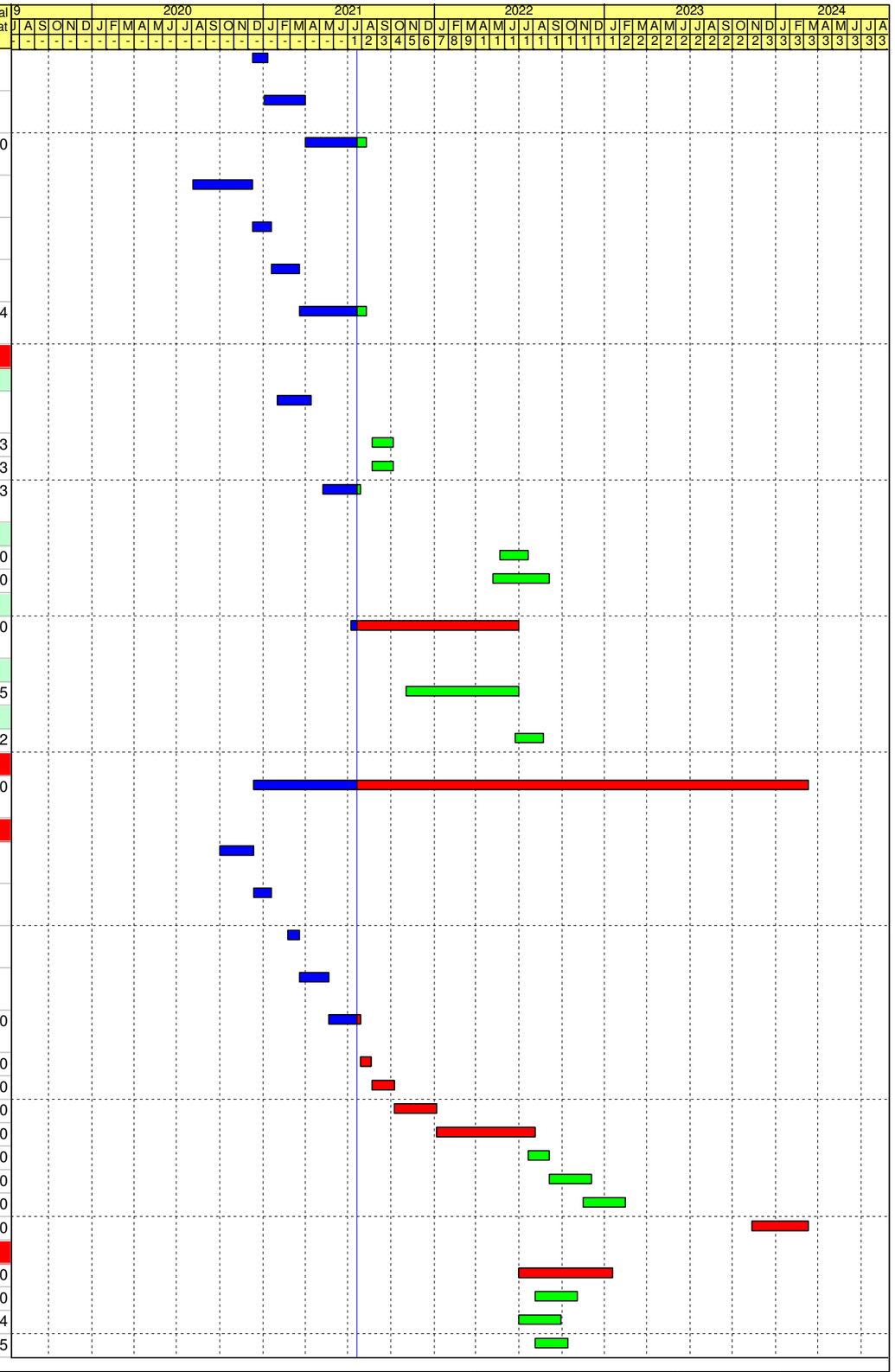
AS201405e	Review & Comment on BS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21	11-Dec-20 A	11-Jan-21 A	15-Aug-22	15-Aug-22	
AS201410e	Revise & Re-submit BS Works Design & Dwgs for Sidestream Treatment Facilities	102	05-Jan-21 A	31-Mar-21 A	15-Aug-22	15-Aug-22	
AS201415e	Review & Accept of BS Works Design & Dwgs for Sidestream Treatment Facilities by PM	132	01-Apr-21 A	10-Aug-21	15-Aug-22	04-Sep-22	390
AS201420	Submission & Submit FS Works Design & Dwgs for Sidestream Treatment Facilities	182	03-Aug-20 A	10-Dec-20 A	08-Oct-22	08-Oct-22	
AS201430e	Review & Comment on FS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21	11-Dec-20 A	19-Jan-21 A	08-Oct-22	08-Oct-22	
AS201440e	Revise & Re-submit FS Works Design & Dwgs for Sidestream Treatment Facilities	66	20-Jan-21 A	19-Mar-21 A	08-Oct-22	08-Oct-22	
AS201450e	Review & Accept of FS Works Design & Dwgs for Sidestream Treatment Facilities by PM	144	20-Mar-21 A	10-Aug-21	08-Oct-22	28-Oct-22	444
Major Plant & Materials Procurement							
Civil & Structure							
AS153130e	Procurement, Manufacture & Delivery of Piling	60	01-Feb-21 A	14-Apr-21 A	21-Jul-21	21-Jul-21	
AS153140e	Procurement, Manufacture & Delivery of Concrete Mix	45	22-Aug-21*	05-Oct-21	23-Nov-21	06-Jan-22	93
AS153150e	Procurement, Manufacture & Delivery of Steel Reinforcement	45	22-Aug-21*	05-Oct-21	23-Nov-21	06-Jan-22	93
AS153160e	Procurement, Manufacture & Delivery of Metal Works Material	80	09-May-21 A	27-Jul-21	02-Oct-21	08-Oct-21	73
ABWF							
AS153170	Procurement, Manufacture & Delivery of Water Proofing Material	60	22-May-22	20-Jul-22	16-Feb-23	16-Apr-23	270
AS153180	Procurement, Manufacture & Delivery of ABWF Works Material	120	07-May-22	03-Sep-22	01-Feb-23	31-May-23	270
E&M Process							
AS153100	Procurement, Manufacture & Delivery of Deammonification Sidestream Treatment Facilities	354	07-Jul-21 A	01-Jul-22	27-Jul-21	01-Jul-22	0
BS							
AS153190	Procurement, Manufacture & Delivery of BS Works Material	240	04-Nov-21	01-Jul-22	08-Jan-22	04-Sep-22	65
Fitting-out							
AS512370f	Procurement, Manufacture & Delivery of Fit-out Works Material	60	24-Jun-22	22-Aug-22	02-Apr-23	31-May-23	282
Ground Settlement, Tilting & Utility Monitoring							
AS153200f	Ground Settlement, Tilting & Utility Monitoring	1184	12-Dec-20 A	09-Mar-24	21-Jul-21	09-Mar-24	0
Civil Works Construction							
AS161100	Site Clearance & Survey	50	30-Sep-20 A	11-Dec-20 A	21-Jul-21	21-Jul-21	
AS161120	Ground Investigation	65	12-Dec-20 A	18-Jan-21 A	21-Jul-21	21-Jul-21	
AS161140	Pre-drilling Works	180	22-Feb-21 A	19-Mar-21 A	21-Jul-21	21-Jul-21	
AS161145g	Minor Civil Works & Preperation Works for Piling	31	20-Mar-21 A	20-May-21 A	21-Jul-21	21-Jul-21	
AS161150g	Piling Works	69	21-May-21 A	28-Jul-21	21-Jul-21	28-Jul-21	0
AS161155g	Post-drilling, Proof test & remaining works	23	29-Jul-21	20-Aug-21	29-Jul-21	20-Aug-21	0
AS161157i	Site Set-up / Mobilisation	49	21-Aug-21	08-Oct-21	21-Aug-21	08-Oct-21	0
AS161160	Excavation / ELS	90	09-Oct-21	06-Jan-22	09-Oct-21	06-Jan-22	0
AS161180	Substructure / Superstructure	210	07-Jan-22	04-Aug-22	07-Jan-22	04-Aug-22	0
AS161200	Waterproofing	45	21-Jul-22	03-Sep-22	17-Apr-23	31-May-23	270
AS161220	External & Internal Finishes - 1st Fix (Blockwork, Plastering, Wet Trade)	90	04-Sep-22	02-Dec-22	01-Jun-23	29-Aug-23	270
AS161240	External & Internal Finishes - 2nd Fix (Ceiling / Wall / Floor Finishing, Door)	90	16-Nov-22	13-Feb-23	13-Aug-23	10-Nov-23	270
AS161260	Landscaping Works	120	11-Nov-23	09-Mar-24	11-Nov-23	09-Mar-24	0
E&M Installation							
AS154100	E&M Installation of Deammonification Sidestream Treatment Facilities	200	02-Jul-22	17-Jan-23	02-Jul-22	17-Jan-23	0
AS154110e	E&M installation of DG Plant Room	90	05-Aug-22	02-Nov-22	24-Sep-22	22-Dec-22	50
AS154120	Installation of Electrical Supply Systems (TX, LV Switchboard & Temp. Power)	90	02-Jul-22	29-Sep-22	13-Nov-22	10-Feb-23	134
AS154160	FS Installation - Conduits, Trunking, & Pipeworks	70	05-Aug-22	13-Oct-22	29-Oct-22	06-Jan-23	85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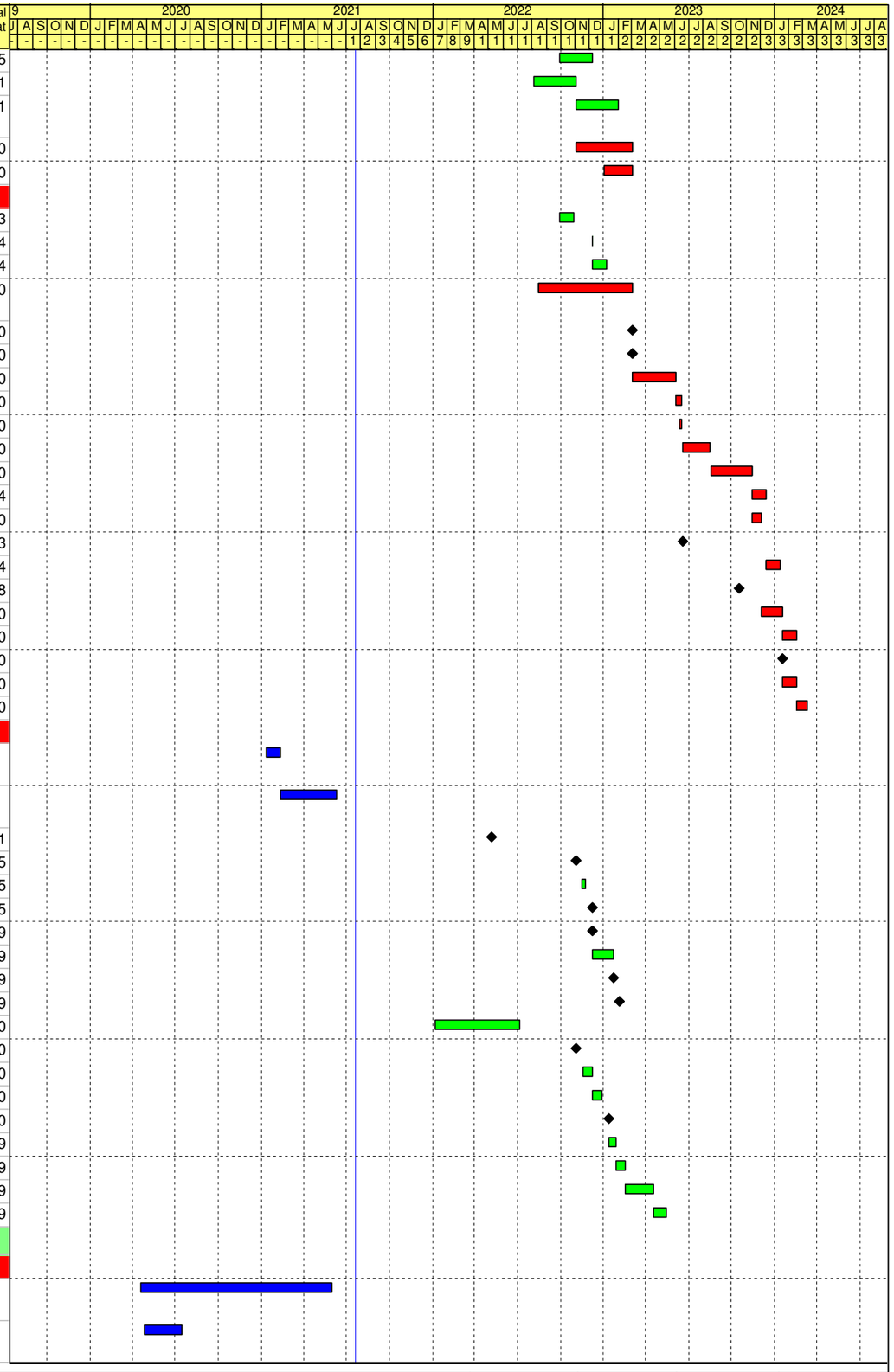
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
AS154180	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	70	30-Sep-22	08-Dec-22	24-Dec-22	03-Mar-23	85
AS154200	BS Fitting Installation - Conduits, Trunking, & Ductworks	90	05-Aug-22	02-Nov-22	05-Sep-22	03-Dec-22	31
AS154220	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90	03-Nov-22	31-Jan-23	04-Dec-22	03-Mar-23	31
AS154240	Installation of Control & Monitoring System	120	04-Nov-22	03-Mar-23	04-Nov-22	03-Mar-23	0
AS154270	Installation of Gas Detection System	60	03-Jan-23	03-Mar-23	03-Jan-23	03-Mar-23	0
Testing & Commissioning							
AS155000d	SAT for TX & LV Switchboard	30	30-Sep-22	29-Oct-22	08-Sep-23	07-Oct-23	343
AS155020d	Power Energization (Power Provision from DE/2018/04 Contract)	1	08-Dec-22	08-Dec-22	08-Oct-23	08-Oct-23	304
AS155040d	Essential T&C for FSD Inspection	30	09-Dec-22	07-Jan-23	09-Oct-23	07-Nov-23	304
AS155100	SAT for Deammonification Sidestream Treatment Facilities (Ref. to PS6B.1.18.3)	200	16-Aug-22	03-Mar-23	16-Aug-22	03-Mar-23	0
AS155105e	Existing sludge dewatering facilities Ready (by DE/2018/04 Contract)	0		03-Mar-23		03-Mar-23	0
AS155110e	Plant service water from zone B/C Ready (Zone B by DE/2018/04 Contract)	0		03-Mar-23		03-Mar-23	0
AS155120a	Process Start Up	92	04-Mar-23	03-Jun-23	04-Mar-23	03-Jun-23	0
AS155140a	Submission & Acceptance of Process Start Up Report	14	04-Jun-23	17-Jun-23	04-Jun-23	17-Jun-23	0
AS155160a	Notice for Commencement of Phase 1 Commissioning Tests	7	11-Jun-23	17-Jun-23	11-Jun-23	17-Jun-23	0
AS155200	Phase 1 Commissioning Tests with daily result to PM	60	18-Jun-23	16-Aug-23	18-Jun-23	16-Aug-23	0
AS155210e	Phase 1 Re-commissioning Tests with daily result to PM (If Failure)	90	17-Aug-23	14-Nov-23	17-Aug-23	14-Nov-23	0
AS155220a	Submission & Acceptance of Phase 1 Commissioning Tests Report	30	15-Nov-23	14-Dec-23	19-Nov-23	18-Dec-23	4
AS155240a	Phase 1 Post Commissioning with daily result to PM	19	15-Nov-23	03-Dec-23	15-Nov-23	03-Dec-23	0
AS155250e	Ready to Process start up of the first Anaerobic Digester in Zone C	0	19-Jun-23		19-Dec-23		183
AS155260a	Submission & Acceptance of Phase 1 Post Commissioning Report	30	15-Dec-23	13-Jan-24	19-Dec-23	17-Jan-24	4
AS155270e	THP digested sludge centrate from Zone C Ready	0		16-Oct-23		03-Dec-23	48
AS155300	Phase 2 Commissioning Tests with daily result to PM	45	04-Dec-23	17-Jan-24	04-Dec-23	17-Jan-24	0
AS155320a	Submission & Acceptance of Phase 2 Commissioning Tests Report	30	18-Jan-24	16-Feb-24	18-Jan-24	16-Feb-24	0
AS155330e	Commissioning of new Anaerobic Digesters (2 nos.) in Zone C Finished	0		17-Jan-24		17-Jan-24	0
AS155340a	Phase 3 Commissioning Tests with daily result to PM	30	18-Jan-24	16-Feb-24	18-Jan-24	16-Feb-24	0
AS155360a	Submission & Acceptance of Phase 3 Commissioning Tests Report	22	17-Feb-24	09-Mar-24	17-Feb-24	09-Mar-24	0
Statutory Submission / Inspection (FSD)							
AS201440	Prepare & Submit GBP for FSD approval	90	12-Jan-21 A	10-Feb-21 A	07-Jan-22	07-Jan-22	
AS201460	FSD Review & Approval of GBP	180	11-Feb-21 A	11-Jun-21 A	07-Jan-22	07-Jan-22	
AS201470e	Submit WWO46 Part I/II to WSD (FS / PD)	0	07-May-22		07-Jun-22		31
AS201472e	Submit WWO46 Part IV to WSD (FS / PD)	0	03-Nov-22		04-Oct-23		335
AS201475e	WSD Inspection	7	17-Nov-22	23-Nov-22	18-Oct-23	24-Oct-23	335
AS201477e	Issuance of FS Water Certificate	0		07-Dec-22		07-Nov-23	335
AS201480e	Issuance of Form WWO46 Part Va	0		07-Dec-22		10-Jan-24	399
AS201482f	System Flushing / Sampling	45	08-Dec-22	21-Jan-23	11-Jan-24	24-Feb-24	399
AS201485e	Issuance of Form WWO46 Part Vb	0		21-Jan-23		24-Feb-24	399
AS201487f	Issuance of Water Certificate	0		04-Feb-23		09-Mar-24	399
AS201489g	Submission & Approval of DG Application to FSD	180	07-Jan-22	05-Jul-22	26-Feb-22	24-Aug-22	50
AS201490e	Submit Application to FSD for DG Licence	0	03-Nov-22		23-Dec-22		50
AS201495e	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	21	18-Nov-22	08-Dec-22	07-Jan-23	27-Jan-23	50
AS201500e	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	21	09-Dec-22	29-Dec-22	28-Jan-23	17-Feb-23	50
AS201505e	DG Licence issued	0		12-Jan-23		03-Mar-23	50
AS201510a	Prepare & Submit FS/314, FS/501 & FS/501a	14	13-Jan-23	26-Jan-23	08-Nov-23	21-Nov-23	299
AS201520a	FSD Review & Approval of FS/314, FS/501 & FS/501a	21	27-Jan-23	16-Feb-23	22-Nov-23	12-Dec-23	299
AS201540a	F.S. Inspection, Defects Rectification & Re-inspection	60	17-Feb-23	17-Apr-23	13-Dec-23	10-Feb-24	299
AS201560a	Issuance of Acceptance Letter	28	18-Apr-23	15-May-23	11-Feb-24	09-Mar-24	299
Section 4 - Complete Construction & T&C for UV System No.1 & EP Station No. 1							
Major Plant & Materials Fabrication & Delivery							
AS103160	Procurement & PO for FRP Cover (S11)	409	18-Apr-20 A	31-May-21 A	14-Nov-21	14-Nov-21	
AS103300	Procurement & PO for Pipeworks & Associated Valves	90	25-Apr-20 A	15-Jul-20 A	25-Sep-21	25-Sep-21	



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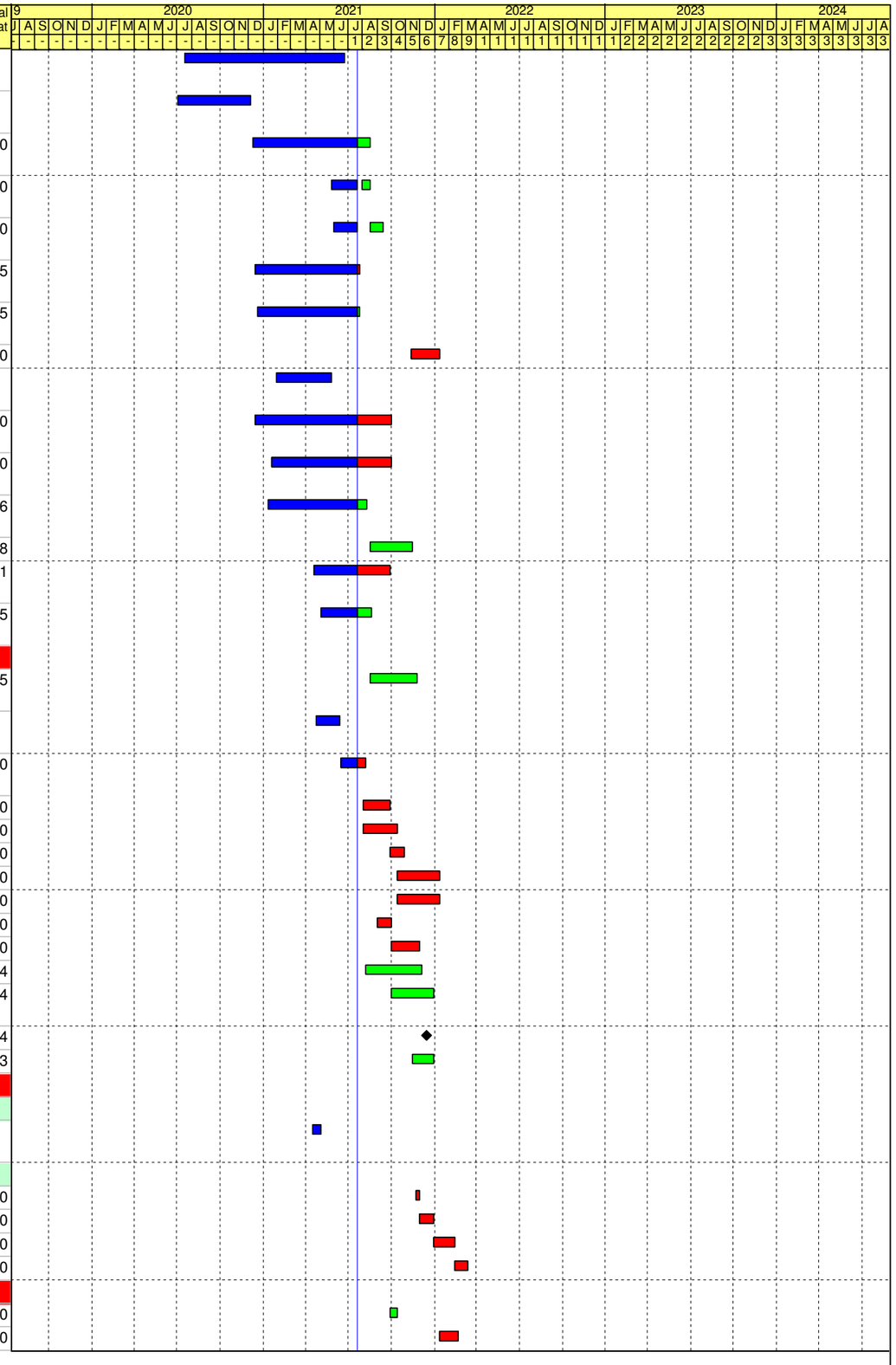
31-Jul-21	Rev.12	LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
AS103320	Procurement & PO for Elec. Materials	365	18-Jul-20 A	22-Jun-21 A	15-Oct-21	15-Oct-21	
AS103400	Procurement & PO for FS System (S20)	60	02-Jul-20 A	04-Dec-20 A	22-Jul-21	22-Jul-21	
AS104100	Fabrication of UV Disinfection System (S10)	239	10-Dec-20 A	16-Aug-21	20-Aug-21	15-Sep-21	30
AS104105c	FAT for UV Disinfection System (S10)	71	27-May-21 A	16-Aug-21	29-Aug-21	15-Sep-21	30
AS104110c	Delivery of UV Disinfection System (S10)	106	01-Jun-21 A	14-Sep-21	16-Sep-21	14-Oct-21	30
AS104120	Fabrication & Delivery of Lift-up Pumps (S11)	225	14-Dec-20 A	26-Jul-21	26-Jul-21	31-Jul-21	5
AS104140	Fabrication & Delivery of Transfer Pumps (S13)	218	21-Dec-20 A	26-Jul-21	24-Sep-21	29-Sep-21	65
AS104160	Fabrication & Delivery of FRP Cover (S11)	60	14-Nov-21	12-Jan-22	14-Nov-21	12-Jan-22	0
AS104180	Fabrication & Delivery of EOT Cranes (2T & 5T) (S19)	170	28-Jan-21 A	27-May-21 A	21-Jul-21	21-Jul-21	
AS104200	Fabrication & Delivery of Stoplogs (S21)	289	16-Dec-20 A	30-Sep-21	21-Jul-21	30-Sep-21	0
AS104220	Fabrication & Delivery of Penstocks (S21)	256	18-Jan-21 A	30-Sep-21	21-Jul-21	30-Sep-21	0
AS104300	Fabrication & Delivery of Pipeworks & Associated Valves	200	11-Jan-21 A	09-Aug-21	25-Sep-21	14-Oct-21	66
AS104320	Fabrication & Delivery of Elec. Materials	90	18-Aug-21*	15-Nov-21	15-Oct-21	12-Jan-22	58
AS104400	Fabrication & Delivery of FS System (S20)	180	18-Apr-21 A	29-Sep-21	22-Jul-21	30-Sep-21	1
AS104410h	Fabrication & Delivery of Temp. Switchboard	90	05-May-21 A	20-Aug-21	25-Aug-21	24-Sep-21	35
E&M Installation							
AS105100	Provision of Temporary Power for UV System No.1 & Effluent Transfer Pumping Station	100	17-Aug-21	24-Nov-21	21-Sep-21	29-Dec-21	35
AS106100	Mobilisation	30	25-Apr-21 A	12-Jun-21 A	21-Jul-21	21-Jul-21	
AS106120	E&M Installation of EOT Cranes (2T)	46	15-Jun-21 A	06-Aug-21	21-Jul-21	06-Aug-21	0
AS106140	E&M Installation of EOT Cranes (5T)	60	01-Aug-21	29-Sep-21	01-Aug-21	29-Sep-21	0
AS106160	E&M Installation of Transfer Pumps & Associated Pipeworks / Valves	75	01-Aug-21	14-Oct-21	01-Aug-21	14-Oct-21	0
AS106180	E&M Installation of Lift-up Pumps & Associated Pipeworks / Valves	30	30-Sep-21	29-Oct-21	30-Sep-21	29-Oct-21	0
AS106200	E&M Installation of Penstocks & Stoplogs	90	15-Oct-21	12-Jan-22	15-Oct-21	12-Jan-22	0
AS106210	E&M Installation of UV System	90	15-Oct-21	12-Jan-22	15-Oct-21	12-Jan-22	0
AS106220	FS Installation - Conduits, Trunking, & Pipeworks	30	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0
AS106240	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	60	01-Oct-21	29-Nov-21	01-Oct-21	29-Nov-21	0
AS106260	BS Fitting Installation - Conduits, Trunking, & Ductworks	120	07-Aug-21	04-Dec-21	21-Aug-21	18-Dec-21	14
AS106280	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90	01-Oct-21	29-Dec-21	15-Oct-21	12-Jan-22	14
AS106290g	Ready for Power Energization	0		16-Dec-21		29-Dec-21	14
AS106320	Installation of CCTV System	45	15-Nov-21	29-Dec-21	28-Dec-21	10-Feb-22	43
Statutory Submission / Inspection							
CLP Submission							
AS107090g	Submission & Approval of Electrical Schematic Wiring Diagram to CLP (Temp. Power)	60	17-Apr-21 A	04-May-21 A	21-Aug-21	21-Aug-21	
FSD Submission & Inspection							
AS107100	Prepare & Submit FS/314, FS/501 & FS/501a	7	23-Nov-21	29-Nov-21	23-Nov-21	29-Nov-21	0
AS107110a	FSD Review & Approval of FS/314, FS/501 & FS/501a	30	30-Nov-21	29-Dec-21	30-Nov-21	29-Dec-21	0
AS107200	F.S. Inspection, Defects Rectification & Re-inspection	45	30-Dec-21	12-Feb-22	30-Dec-21	12-Feb-22	0
AS107300	Issuance of Acceptance Letter	28	13-Feb-22	12-Mar-22	13-Feb-22	12-Mar-22	0
Testing & Commissioning							
AS107350f	T&C and R.P.E inspection for EOT Cranes	15	30-Sep-21	14-Oct-21	29-Dec-21	12-Jan-22	90
AS107400	SAT for UV System No. 1 & Effluent Transfer Pumping Station No. 1	40	13-Jan-22	21-Feb-22	13-Jan-22	21-Feb-22	0



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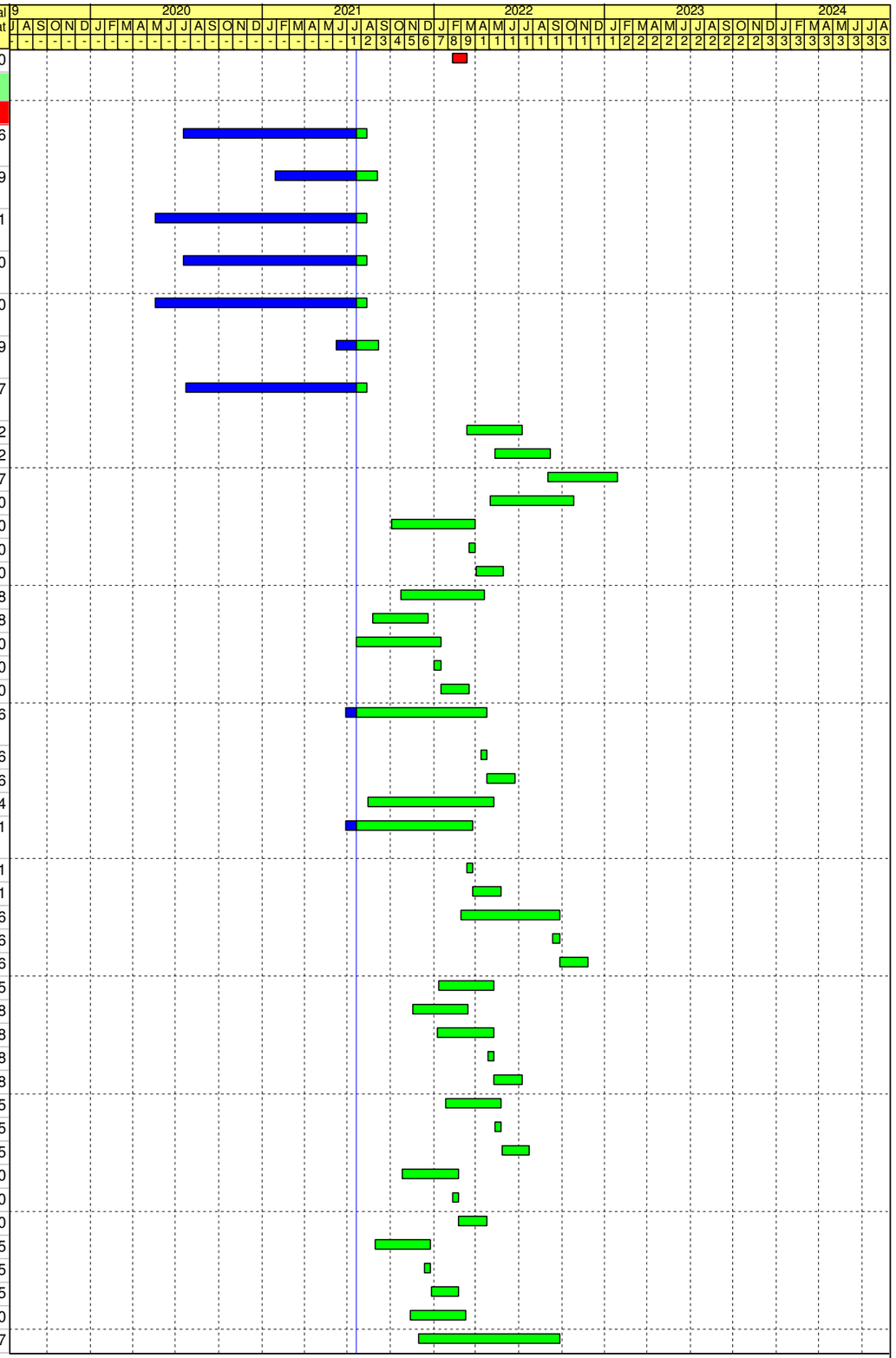
31-Jul-21	Rev.12	LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
AS107500	System Commissioning Tests	30	11-Feb-22	12-Mar-22	11-Feb-22	12-Mar-22	0
Section 5 - Complete all remaining Works (incl. T&C)							
Fabrication, FAT & Delivery of Major Plant & Materials							
AS023200	Procurement & PO for Biogas Booster and Transfer Pumps (S7)	391	17-Jul-20 A	11-Aug-21	06-Aug-21	27-Aug-21	16
AS023290	Procurement & PO for Pipeworks & Associated Valves	218	29-Jan-21 A	03-Sep-21	08-Oct-21	21-Nov-21	79
AS023400	Procurement & PO for Lifting Appliances (S19)	451	18-May-20 A	11-Aug-21	01-Aug-21	22-Aug-21	11
AS023560	Procurement & PO for Ferric Chloride Storage Tank (S21)	391	17-Jul-20 A	11-Aug-21	27-Apr-22	18-May-22	280
AS023580	Procurement & PO for Ferric Chloride Dosing Pump (S21)	451	18-May-20 A	11-Aug-21	28-Mar-22	18-Apr-22	250
AS023620	Procurement & PO for Elec. Materials	90	09-Jun-21 A	06-Sep-21	16-Jan-22	04-Mar-22	179
AS023620b	Procurement & PO for Genset	386	22-Jul-20 A	11-Aug-21	05-Mar-22	26-Mar-22	227
AS104240	Fabrication & Delivery of Transfomers -UV (Tx 07 & 08) (S17)	120	12-Mar-22	09-Jul-22	22-Jun-22	19-Oct-22	102
AS104260	Fabrication & Delivery of LVSB -UV (S17)	120	11-May-22	07-Sep-22	21-Aug-22	18-Dec-22	102
AS104280	Fabrication & Delivery of Control & Monitoring System -UV (S18)	150	01-Sep-22	28-Jan-23	18-Oct-22	16-Mar-23	47
AS501100	Fabrication & Delivery of Sludge Screening System (S2)	180	01-May-22	27-Oct-22	11-May-22	06-Nov-22	10
AS501120	Fabrication of Sludge Thickening System (S3)	180	03-Oct-21	31-Mar-22	13-Oct-21	10-Apr-22	10
AS501125c	FAT for Sludge Thickening System (S3)	14	18-Mar-22	31-Mar-22	28-Mar-22	10-Apr-22	10
AS501130c	Delivery of Sludge Thickening System (S3)	60	01-Apr-22	30-May-22	11-Apr-22	09-Jun-22	10
AS501140	Fabrication & Delivery of Sludge Digestion System (S5)	180	23-Oct-21	20-Apr-22	31-Oct-21	28-Apr-22	8
AS501150a	Fabrication & Delivery of FRP Walkway / Cover (S5)	120	24-Aug-21	21-Dec-21	01-Sep-21	29-Dec-21	8
AS501160	Fabrication of Sludge Dewatering System (S6)	180	21-Jul-21	16-Jan-22	31-Jul-21	26-Jan-22	10
AS501165c	FAT for Sludge Dewatering System (S6)	14	03-Jan-22	16-Jan-22	13-Jan-22	26-Jan-22	10
AS501170c	Delivery of Sludge Dewatering System (S6)	60	17-Jan-22	17-Mar-22	27-Jan-22	27-Mar-22	10
AS501180	Fabrication of THP System (S4)	300	29-Jun-21 A	24-Apr-22	04-Nov-21	08-Aug-22	106
AS501200	FAT for THP System (S4)	14	11-Apr-22	24-Apr-22	26-Jul-22	08-Aug-22	106
AS501220	Delivery of THP System (S4)	60	25-Apr-22	23-Jun-22	09-Aug-22	07-Oct-22	106
AS501240	Fabrication & Delivery of Biogas Storage & Pre-Treatment (S7)	270	14-Aug-21*	10-May-22	28-Aug-21	24-May-22	14
AS501260	Fabrication of CHP System (S8)	270	29-Jun-21 A	25-Mar-22	01-Aug-21	05-Apr-22	11
AS501280	FAT for CHP Generators (S8)	14	12-Mar-22	25-Mar-22	23-Mar-22	05-Apr-22	11
AS501300	Delivery of CHP Generators (S8)	60	26-Mar-22	24-May-22	06-Apr-22	04-Jun-22	11
AS501320	Fabrication of Waste Gas Burning System (S9)	210	01-Mar-22	26-Sep-22	27-Mar-22	22-Oct-22	26
AS501340	FAT for Waste Gas Burning System (S9)	14	13-Sep-22	26-Sep-22	09-Oct-22	22-Oct-22	26
AS501360	Delivery of Waste Gas Burning System (S9)	60	27-Sep-22	25-Nov-22	23-Oct-22	21-Dec-22	26
AS501380	Fabrication & Delivery of Plant Service Water System (S12)	120	11-Jan-22	10-May-22	23-Sep-22	20-Jan-23	255
AS501400	Fabrication & Delivery of SAS Pumping System (S14)	120	17-Nov-21	16-Mar-22	04-Jan-22	03-May-22	48
AS501420	Fabrication of 11kV Transfomers (S17)	120	10-Jan-22	09-May-22	07-Jun-22	04-Oct-22	148
AS501440	FAT for 11kV Transfomers (S17)	14	26-Apr-22	09-May-22	21-Sep-22	04-Oct-22	148
AS501460	Delivery of 11kV Transfomers (S17)	60	10-May-22	08-Jul-22	05-Oct-22	03-Dec-22	148
AS501480	Fabrication of 380V Transfomers (S17)	120	26-Jan-22	25-May-22	21-May-22	17-Sep-22	115
AS501500	FAT for 380V Transfomers (S17)	14	12-May-22	25-May-22	04-Sep-22	17-Sep-22	115
AS501520	Delivery of 380V Transfomers (S17)	60	26-May-22	24-Jul-22	18-Sep-22	16-Nov-22	115
AS501540	Fabrication of 11 kV Switchboard (S17)	120	27-Oct-21	23-Feb-22	26-Mar-22	23-Jul-22	150
AS501560	FAT for 11 kV Switchboard (S17)	14	10-Feb-22	23-Feb-22	10-Jul-22	23-Jul-22	150
AS501580	Delivery of 11 kV Switchboard (S17)	60	24-Feb-22	24-Apr-22	24-Jul-22	21-Sep-22	150
AS501600	Fabrication of 380V Switchboard (S17)	120	29-Aug-21	26-Dec-21	22-Dec-21	20-Apr-22	115
AS501620	FAT for 380V Switchboard (S17)	14	13-Dec-21	26-Dec-21	07-Apr-22	20-Apr-22	115
AS501640	Delivery of 380V Switchboard (S17)	60	27-Dec-21	24-Feb-22	21-Apr-22	19-Jun-22	115
AS501660b	Fabrication & Delivery of Pipeworks & Associated Valves	120	12-Nov-21	11-Mar-22	22-Nov-21	21-Mar-22	10
AS501680	Fabrication of Control & Monitoring System (S18)	300	01-Dec-21*	26-Sep-22	08-Dec-21	03-Oct-22	7



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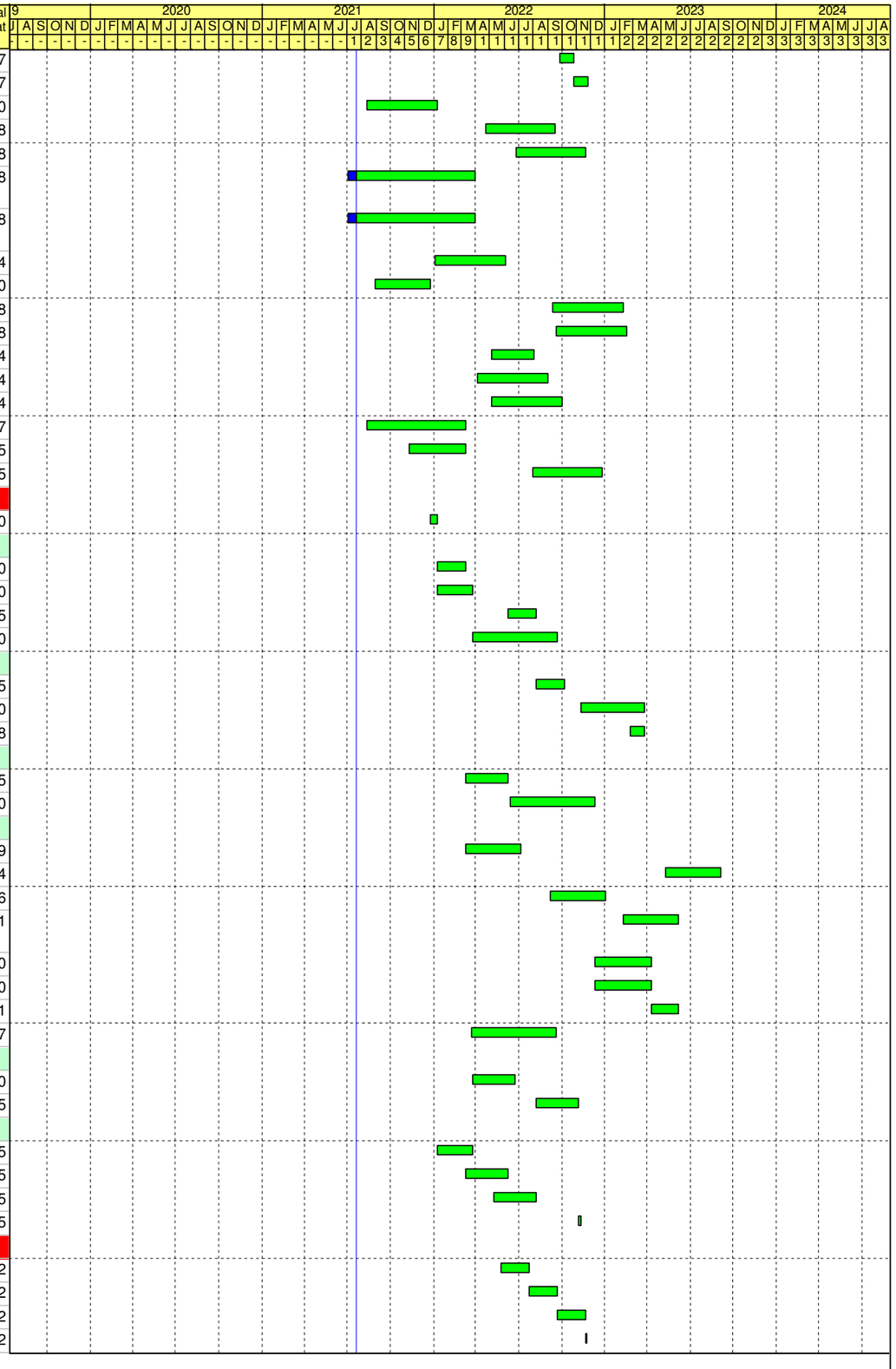
AS501700	FAT for SCADA System (S18)	30	27-Sep-22	26-Oct-22	04-Oct-22	02-Nov-22	7
AS501720	Delivery of SCADA System (S18)	30	27-Oct-22	25-Nov-22	03-Nov-22	02-Dec-22	7
AS501740	Fabrication & Delivery of Lifting Appliances (S19)	150	13-Aug-21	09-Jan-22	23-Aug-21	19-Jan-22	10
AS501780	Fabrication & Delivery of H2S Removal System (S7)	150	21-Apr-22	17-Sep-22	29-Apr-22	25-Sep-22	8
AS501800	Fabrication & Delivery of DO System (S21)	150	25-Jun-22	21-Nov-22	03-Jul-22	29-Nov-22	8
AS501820	Fabrication & Delivery of Stoplog (S21)	270	04-Jul-21 A	30-Mar-22	07-Sep-21	17-May-22	48
AS501840	Fabrication & Delivery of Penstock (S21)	270	04-Jul-21 A	30-Mar-22	07-Sep-21	17-May-22	48
AS501860	Fabrication & Delivery of Sewage Pump (S21)	150	05-Jan-22	03-Jun-22	19-Jan-22	17-Jun-22	14
AS501880	Fabrication & Delivery of Process Water Pump (S21)	120	29-Aug-21	26-Dec-21	25-Jul-22	21-Nov-22	330
AS501900	Fabrication & Delivery of External Sludge Transfer Pump (S21)	150	13-Sep-22	09-Feb-23	01-Oct-22	27-Feb-23	18
AS501920	Fabrication & Delivery of THP Cooling Pump (S21)	150	19-Sep-22	15-Feb-23	27-Sep-22	23-Feb-23	8
AS501940	Fabrication & Delivery of Ferric Chloride Storage Tank (S21)	90	05-May-22	02-Aug-22	19-May-22	16-Aug-22	14
AS501960	Fabrication & Delivery of Ferric Chloride Dosing Pump (S21)	150	05-Apr-22	01-Sep-22	19-Apr-22	15-Sep-22	14
AS501980	Fabrication & Delivery of Temporary Primary Sludge Pump (S21)	150	05-May-22	01-Oct-22	19-May-22	15-Oct-22	14
AS501990b	Fabrication & Delivery of Genset	210	12-Aug-21	09-Mar-22	27-Mar-22	22-Oct-22	227
AS510060	Fabrication & Delivery of Elec. Materials	120	10-Nov-21	09-Mar-22	05-Mar-22	02-Jul-22	115
AS510080	Fabrication & Delivery of Gas Detection System	150	30-Jul-22	26-Dec-22	24-Aug-22	20-Jan-23	25
Sludge Dewatering Building							
AS502100	Mobilisation	15	26-Dec-21	09-Jan-22	05-Jan-22	19-Jan-22	10
Sludge Dewatering (SDe)							
AS502120	E&M Installation of Process Water Pump (S21)	60	10-Jan-22	10-Mar-22	06-Dec-22	03-Feb-23	330
AS502140	E&M Installation of EOT Crane LA-01-02	75	10-Jan-22	25-Mar-22	20-Jan-22	04-Apr-22	10
AS502150	E&M Installation of Monorail LA-01-04	60	09-Jun-22	07-Aug-22	24-Jul-22	21-Sep-22	45
AS502160	E&M Installation of Sludge Dewatering System (S6)	180	26-Mar-22	21-Sep-22	05-Apr-22	01-Oct-22	10
Sludge Screening (SSc)							
AS502180	E&M Installation of Monorail LA-01-01	60	08-Aug-22	06-Oct-22	22-Sep-22	20-Nov-22	45
AS502200	E&M Installation of Sludge Screening System (S2)	135	11-Nov-22	25-Mar-23	21-Nov-22	04-Apr-23	10
AS502220	E&M Installation of External Sludge Transfer Pump (S21)	30	24-Feb-23	25-Mar-23	14-Mar-23	12-Apr-23	18
Sludge Thickening (STh)							
AS502260	E&M Installation of EOT Crane LA-01-03	90	11-Mar-22	08-Jun-22	26-Mar-22	23-Jun-22	15
AS502280	E&M Installation of Sludge Thickening System (S3)	180	14-Jun-22	10-Dec-22	24-Jun-22	20-Dec-22	10
Building Services							
AS502300	FS Installation - Conduits, Trunking, & Pipeworks	120	10-Mar-22	07-Jul-22	23-Jan-23	22-May-23	319
AS502320	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	120	09-May-23	05-Sep-23	23-May-23	19-Sep-23	14
AS502340	BS Fitting Installation - Conduits, Trunking, & Ductworks	120	06-Sep-22	03-Jan-23	22-Oct-22	18-Feb-23	46
AS502360	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	120	08-Feb-23	07-Jun-23	19-Feb-23	18-Jun-23	11
AS502380	Installation of Control & Monitoring System	120	11-Dec-22	09-Apr-23	21-Dec-22	19-Apr-23	10
AS502400	Installation of CCTV System	120	11-Dec-22	09-Apr-23	21-Dec-22	19-Apr-23	10
AS502410	Installation of Gas Detection System	60	09-Apr-23	07-Jun-23	20-Apr-23	18-Jun-23	11
AS506500b	E&M Installation of Genset	180	24-Mar-22	19-Sep-22	06-Nov-22	04-May-23	227
Tx Rm							
AS502420	BS Fitting Intallation	90	26-Mar-22	23-Jun-22	02-Sep-22	30-Nov-22	160
AS502440	E&M Installation of 380V Transformers (S17)	90	08-Aug-22	05-Nov-22	01-Dec-22	28-Feb-23	115
LV Switchroom							
AS502460	BS Fitting Intallation	75	10-Jan-22	25-Mar-22	05-May-22	18-Jul-22	115
AS502480	E&M Installation of LVSB at G/F (S17)	90	11-Mar-22	08-Jun-22	04-Jul-22	01-Oct-22	115
AS502500	E&M Installation of LVSB at 1/F (S17)	90	10-May-22	07-Aug-22	02-Sep-22	30-Nov-22	115
AS502520	Ready for Energisation	5	06-Nov-22	10-Nov-22	01-Mar-23	05-Mar-23	115
Tx Rm & LV Switchroom (for UV)							
AS105120	BS Fitting Intallation (at Tx Rm & LV Switchroom)	60	25-May-22	23-Jul-22	04-Sep-22	02-Nov-22	102
AS105140	E&M Installation of Transfomers in Tx Rm	60	24-Jul-22	21-Sep-22	03-Nov-22	01-Jan-23	102
AS105160	E&M Installation of LVSB	60	22-Sep-22	20-Nov-22	02-Jan-23	02-Mar-23	102
AS105180	Ready for Permanet Power Energisation	3	21-Nov-22	23-Nov-22	03-Mar-23	05-Mar-23	102



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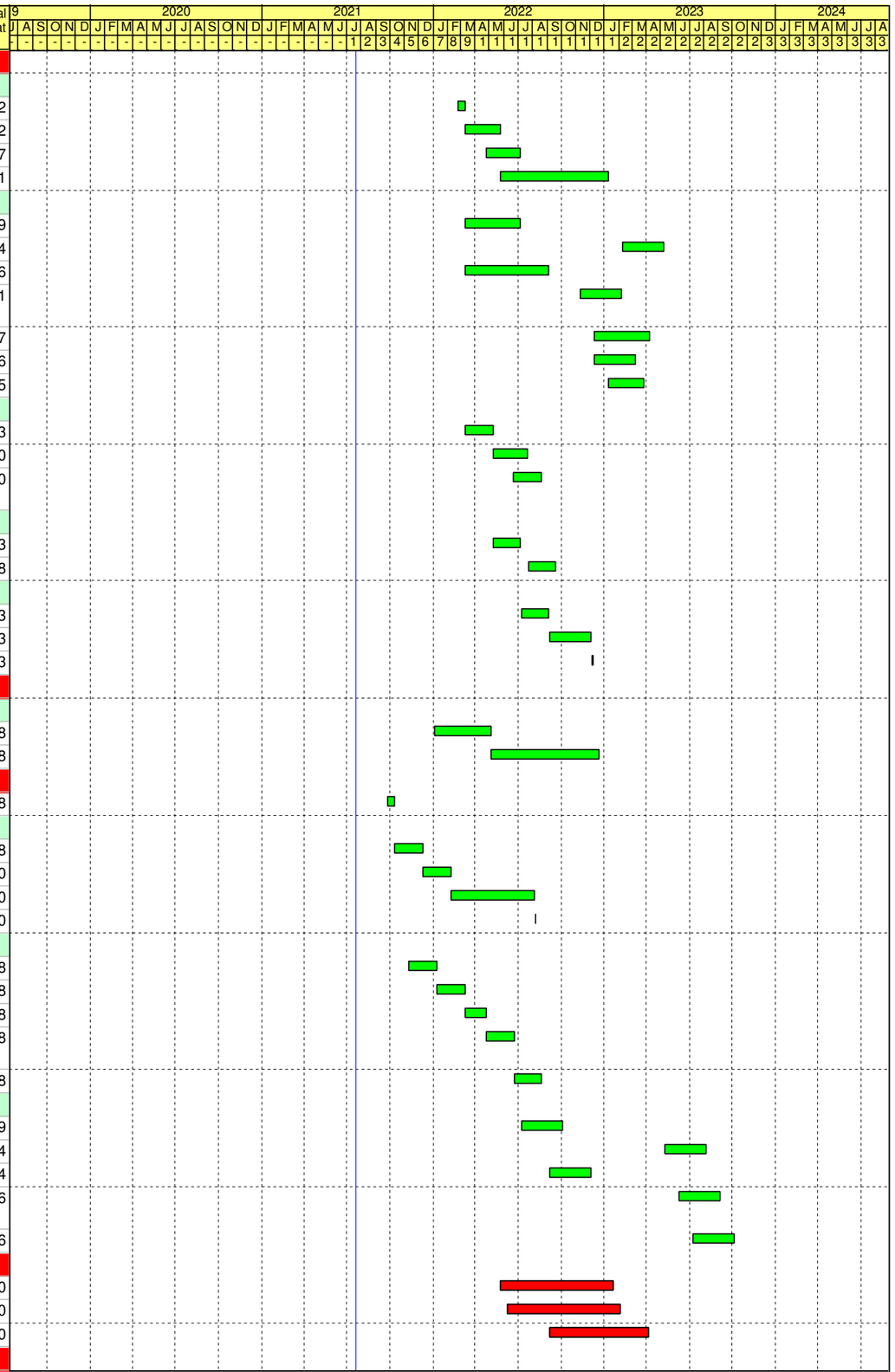
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
Combined Heat & Power Building							
Combined Heat & Power Generation (CHP)							
AS503100	Mobilisation	14	24-Feb-22	09-Mar-22	08-Mar-22	21-Mar-22	12
AS503120	E&M Installation of EOT Crane No. 1	75	10-Mar-22	23-May-22	22-Mar-22	04-Jun-22	12
AS503140	E&M Installation of EOT Crane No. 2	75	24-Apr-22	07-Jul-22	10-Jun-22	23-Aug-22	47
AS503160	E&M Installation of CHP System (S8)	230	25-May-22	09-Jan-23	05-Jun-22	20-Jan-23	11
Building Services							
AS503180	FS Installation - Conduits, Trunking, & Pipeworks	120	10-Mar-22	07-Jul-22	27-Jun-22	24-Oct-22	109
AS503200	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90	08-Feb-23	08-May-23	22-Feb-23	22-May-23	14
AS503220	BS Fitting Installation - Conduits, Trunking, & Ductworks	180	10-Mar-22	05-Sep-22	25-Apr-22	21-Oct-22	46
AS503240	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90	10-Nov-22	07-Feb-23	21-Nov-22	18-Feb-23	11
AS503260	Installation of Control & Monitoring System	120	10-Dec-22	08-Apr-23	17-Dec-22	15-Apr-23	7
AS503280	Installation of CCTV System	90	10-Dec-22	09-Mar-23	05-Jan-23	04-Apr-23	26
AS503290	Installation of Gas Detection System	75	10-Jan-23	25-Mar-23	04-Feb-23	19-Apr-23	25
11kV Switchroom							
AS503300	BS Fitting Installation	60	10-Mar-22	08-May-22	21-Jun-22	19-Aug-22	103
AS503320	E&M Installation of 11kV Switchboard (S17)	75	09-May-22	22-Jul-22	06-Oct-22	19-Dec-22	150
AS503340	Main Cables Laying between 11kV SwitchRoom of CHP Bldg to Tx Rm of Workshop No.2	60	21-Jun-22	19-Aug-22	18-Nov-22	16-Jan-23	150
Tx Rm							
AS503360	BS Fitting Installation	60	09-May-22	07-Jul-22	20-Aug-22	18-Oct-22	103
AS503380	E&M Installation of 11kV Transfomers (S17)	60	23-Jul-22	20-Sep-22	18-Dec-22	15-Feb-23	148
LV Switchroom							
AS503400	BS Fitting Intallation	60	08-Jul-22	05-Sep-22	19-Oct-22	17-Dec-22	103
AS503420	E&M Installation of LVSB at 1/F (S17)	90	06-Sep-22	04-Dec-22	18-Dec-22	17-Mar-23	103
AS503440	Ready for Energisation	3	05-Dec-22	07-Dec-22	18-Mar-23	20-Mar-23	103
Sludge Digesters & Distribution Chamber							
Sludge Digestion (SDi)							
AS503500	FRP Walkway / Cover Installation	120	05-Jan-22	04-May-22	13-Jan-22	12-May-22	8
AS503600	E&M Installation of Sludge Digestion System (S5)	230	05-May-22	20-Dec-22	13-May-22	28-Dec-22	8
Workshop No. 2							
AS504000	Mobilisation	14	27-Sep-21	10-Oct-21	22-Feb-22	07-Mar-22	148
CLP Substation							
AS504100	BS Fitting Intallation (at CLP Sub-station in Workshop No.2)	60	11-Oct-21	09-Dec-21	08-Mar-22	06-May-22	148
AS509940a	Inspections, Rectification & H/O to CLP	60	10-Dec-21	07-Feb-22	08-Jul-22	05-Sep-22	210
AS509960	E&M Installation of HV Transformer (By CLP)	180	08-Feb-22	06-Aug-22	06-Sep-22	04-Mar-23	210
AS509980	Energisation (By CLP)	1	07-Aug-22	07-Aug-22	05-Mar-23	05-Mar-23	210
11kV HV Switchroom							
AS504200	BS Fitting Intallation	60	10-Nov-21	08-Jan-22	07-Apr-22	05-Jun-22	148
AS504240	E&M Installation of 11kV HVSB (at Workshop No.2)	60	09-Jan-22	09-Mar-22	06-Jun-22	04-Aug-22	148
AS504260	Main Cables Laying between Workshop No.2 & Tx Rm for UV System No.1	45	10-Mar-22	23-Apr-22	05-Aug-22	18-Sep-22	148
AS504280	Main Cables Laying between Workshop No.2 & Tx Rm for Sludge Dewatering Bldg	60	24-Apr-22	22-Jun-22	19-Sep-22	17-Nov-22	148
AS504300	Main Cables Laying between Workshop No.2 & Tx Rm for CHP Bldg	60	23-Jun-22	21-Aug-22	18-Nov-22	16-Jan-23	148
Building Services							
AS504400a	FS Installation - Conduits, Trunking, & Pipeworks	90	08-Jul-22	05-Oct-22	23-Apr-23	21-Jul-23	289
AS504410a	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90	09-May-23	06-Aug-23	22-Jul-23	19-Oct-23	74
AS504420a	BS Fitting Installation - Conduits, Trunking, & Ductworks	90	06-Sep-22	04-Dec-22	07-Feb-23	07-May-23	154
AS504430a	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	90	08-Jun-23	05-Sep-23	14-Jul-23	11-Oct-23	36
AS504450	Installation of CCTV System	90	08-Jul-23	05-Oct-23	13-Aug-23	10-Nov-23	36
Biogas Storage & Pre-Treatment (BSPT)							
AS504500	E&M Installation of Biogas Storage Tank 1	240	25-May-22	19-Jan-23	25-May-22	19-Jan-23	0
AS504520	E&M Installation of Biogas Storage Tank 2	240	09-Jun-22	03-Feb-23	09-Jun-22	03-Feb-23	0
AS504540	E&M Installation of Biogas Storage Tank 3	210	07-Sep-22	04-Apr-23	07-Sep-22	04-Apr-23	0
Miscellaneous							



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Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
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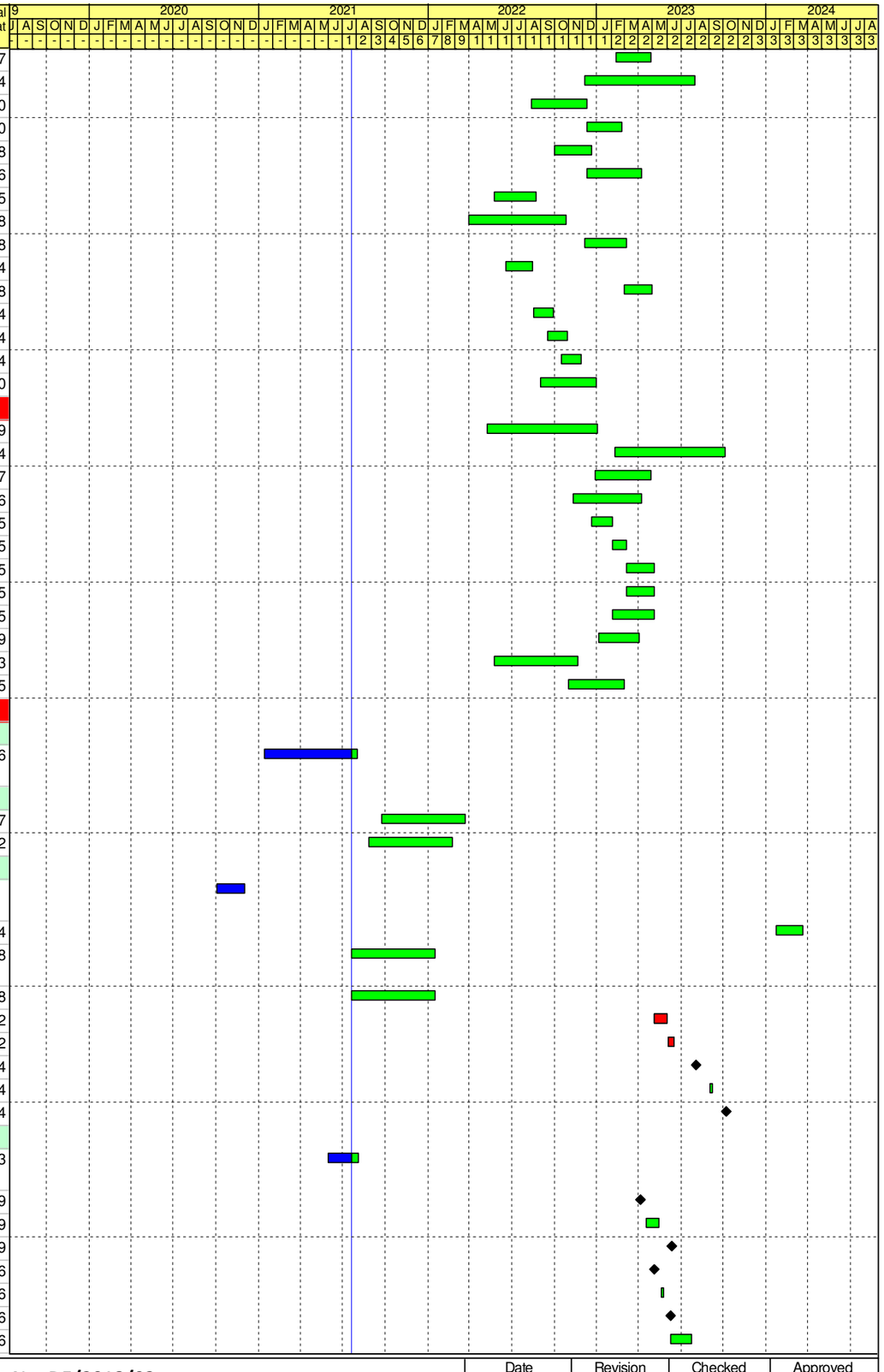
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float
AS106300	Installation of Control & Monitoring System - UV	75	12-Feb-23	27-Apr-23	31-Mar-23	13-Jun-23	47
AS504460	Installation of Lift	240	05-Dec-22	01-Aug-23	08-May-23	02-Jan-24	154
AS505000	E&M Installation of THP System (S4)	120	13-Aug-22	10-Dec-22	22-Oct-22	18-Feb-23	70
AS505100	E&M Installation of Thickened Sludge Feed Pipe to THP System	75	11-Dec-22	23-Feb-23	20-Jan-23	04-Apr-23	40
AS505200	E&M Installation of H2S Removal System (S7)	80	02-Oct-22	20-Dec-22	10-Oct-22	28-Dec-22	8
AS505300	E&M Installation of Waste Gas Burning System (S9)	120	10-Dec-22	08-Apr-23	05-Jan-23	04-May-23	26
AS505400	E&M Installation of Plant Service Water System (S12)	90	25-May-22	22-Aug-22	04-Feb-23	04-May-23	255
AS505600	E&M Installation of SAS Pumping System (S14)	210	31-Mar-22	26-Oct-22	18-May-22	13-Dec-22	48
AS505700	E&M Installation of DO System (S21)	90	06-Dec-22	05-Mar-23	14-Dec-22	13-Mar-23	8
AS506000	E&M Installation of Sewage Pump (S21)	60	18-Jun-22	16-Aug-22	02-Jul-22	30-Aug-22	14
AS506100	E&M Installation of THP Cooling Pump (S21)	60	02-Mar-23	30-Apr-23	10-Mar-23	08-May-23	8
AS506200	E&M Installation of Ferric Chloride Storage Tank (S21)	45	17-Aug-22	30-Sep-22	31-Aug-22	14-Oct-22	14
AS506300	E&M Installation of Ferric Chloride Dosing Pump (S21)	45	16-Sep-22	30-Oct-22	30-Sep-22	13-Nov-22	14
AS506400	E&M Installation of Temporary Primary Sludge Pump (S21)	45	16-Oct-22	29-Nov-22	30-Oct-22	13-Dec-22	14
AS506500h	E&M Installation of Existing Consolidation House	120	02-Sep-22	30-Dec-22	21-Dec-22	19-Apr-23	110
Building Services							
AS507000	FS Installation - Conduits, Trunking, & Pipeworks	240	09-May-22	03-Jan-23	26-Aug-22	22-Apr-23	109
AS507100	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	240	08-Feb-23	05-Oct-23	22-Feb-23	19-Oct-23	14
AS507200	Installation of Control & Monitoring System	120	29-Dec-22	27-Apr-23	05-Jan-23	04-May-23	7
AS507300	Installation of CCTV System	150	10-Nov-22	08-Apr-23	06-Dec-22	04-May-23	26
AS507700	BS Installation for Sludge Digester	45	21-Dec-22	03-Feb-23	04-Feb-23	20-Mar-23	45
AS507800	BS Installation for THP Facilities	30	04-Feb-23	05-Mar-23	20-Apr-23	19-May-23	75
AS507900	BS Installation for Biogas Holding Tanks	60	06-Mar-23	04-May-23	21-Mar-23	19-May-23	15
AS508000	BS Installation for Sewage Pumping Station	60	06-Mar-23	04-May-23	21-Mar-23	19-May-23	15
AS508100	BS Installation for Other Facilities	90	04-Feb-23	04-May-23	19-Feb-23	19-May-23	15
AS508110g	BS Installation for Fire Hydrant and Booster Pump Room	90	04-Jan-23	03-Apr-23	13-May-23	10-Aug-23	129
AS508120g	Road Lighting Installation	180	25-May-22	20-Nov-22	23-Apr-23	19-Oct-23	333
AS508130g	Landscape Lighting Installation	120	01-Nov-22*	28-Feb-23	14-Feb-23	13-Jun-23	105
Statutory Submission / Inspection							
CLP Submission							
AS512375f	Submission & Approval of Electrical Schematic Wiring Diagram to CLP	180	14-Jan-21 A	01-Aug-21	13-Apr-22	24-Apr-22	266
EPD Submission / Inspection							
AS509500a	EPD Submission & Approval for Air Pollution Control - Genset	180	25-Sep-21	23-Mar-22	10-May-22	05-Nov-22	227
AS509520a	EPD Submission & Approval for Air Pollution Control - CHP & THP	180	28-Aug-21	23-Feb-22	09-Sep-21	07-Mar-22	12
EMSD Submission / Inspection							
AS509370b	BEEO Stage one: Submit EE1 & EE-SU to EMSD	60	03-Oct-20 A	02-Dec-20 A	22-Feb-22	22-Feb-22	
AS509375f	BEEO Stage two: Submit EE2 & EE-SU to EMSD	60	22-Jan-24	21-Mar-24	05-Feb-24	04-Apr-24	14
AS509380b	Application & Approval of the Zone Classification of Hazardous Area - including Fire Risk Assessment Report	180	21-Jul-21	16-Jan-22	26-Nov-21	24-May-22	128
AS509400a	Application for Construction Approval of Notifiable Gas Installation (Form 104)	180	21-Jul-21	16-Jan-22	26-Nov-21	24-May-22	128
AS509420a	Application for Approval of Use of Notifiable Gas Installation (Form 105)	28	06-May-23	02-Jun-23	08-May-23	04-Jun-23	2
AS509440a	EMSD Inspection - Gas Holding Tanks	14	03-Jun-23	16-Jun-23	05-Jun-23	18-Jun-23	2
AS509450f	Form 5 Submission to EMSD - Lift Installation	0	02-Aug-23		03-Jan-24		154
AS509460f	EMSD Inspection - Lift Installation	7	01-Sep-23	07-Sep-23	02-Feb-24	08-Feb-24	154
AS509470f	Issuance of Form 6 - Lift Installation	0		07-Oct-23		09-Mar-24	154
WSD Submission / Inspection							
AS509300	Submit WWO46 Part I / II to WSD (FS/PD)	30	01-Jun-21 A	04-Aug-21	10-Jan-22	24-Jan-22	173
AS509340	Submit WWO46 Part IV to WSD (FS)	0	04-Apr-23		11-Aug-23		129
AS509360	WSD Inspection (FS)	28	18-Apr-23	15-May-23	25-Aug-23	21-Sep-23	129
AS509362b	Issuance of FS Water Certificate	0		12-Jun-23		19-Oct-23	129
AS509370f	Submit WWO46 Part IV to WSD (PD)	0	05-May-23		07-Dec-23		216
AS509380f	WSD Inspection	7	19-May-23	25-May-23	21-Dec-23	27-Dec-23	216
AS509390f	Issuance of Form WWO46 Part Va	0		08-Jun-23		10-Jan-24	216
AS509400f	System Flushing / Sampling	45	09-Jun-23	23-Jul-23	11-Jan-24	24-Feb-24	216



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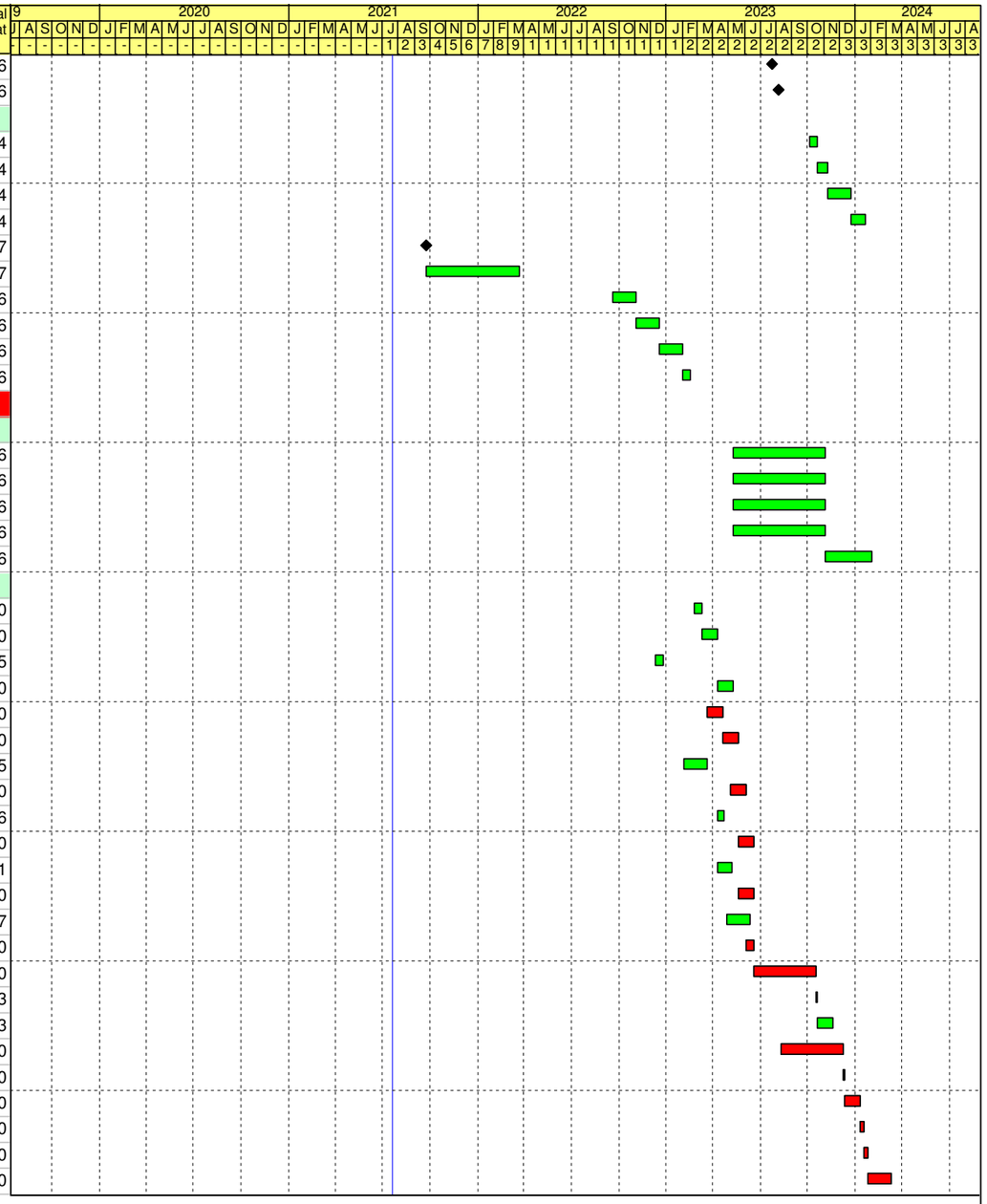
AS509410f	Issuance of Form WWO46 Part Vb	0		23-Jul-23		24-Feb-24	216
AS509420f	Issuance of Water Certificate	0		06-Aug-23		09-Mar-24	216
FSD Submission / Inspection							
AS509120	Prepare & Submit FSI/314 & FSI/501	14	06-Oct-23	19-Oct-23	20-Oct-23	02-Nov-23	14
AS509120a	FSD Review & Approval of FSI/314 & FSI/501	21	20-Oct-23	09-Nov-23	03-Nov-23	23-Nov-23	14
AS509140a	F.S. Inspection, Defects Rectification & Re-inspection	45	10-Nov-23	24-Dec-23	24-Nov-23	07-Jan-24	14
AS509200	Issuance of Acceptance Letter	28	25-Dec-23	21-Jan-24	08-Jan-24	04-Feb-24	14
AS509220	Application of D.G. Licence	0	25-Sep-21		10-May-22		227
AS509240	Processing of D.G. Licence Application	180	25-Sep-21	23-Mar-22	10-May-22	05-Nov-22	227
AS509250b	Apply for D.G. Inspection	45	20-Sep-22	03-Nov-22	24-May-23	07-Jul-23	246
AS509260	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	45	04-Nov-22	18-Dec-22	08-Jul-23	21-Aug-23	246
AS509280b	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	45	19-Dec-22	01-Feb-23	22-Aug-23	05-Oct-23	246
AS509300b	Issue D.G. Licence	14	02-Feb-23	15-Feb-23	06-Oct-23	19-Oct-23	246
Testing & Commissioning							
T&C of Control Monitoring System							
AS512380f	SAT of SCADA System	180	09-May-23	04-Nov-23	14-Jun-23	10-Dec-23	36
AS512390f	SAT of PMS	180	09-May-23	04-Nov-23	14-Jun-23	10-Dec-23	36
AS512400f	SAT of CMMS	180	09-May-23	04-Nov-23	14-Jun-23	10-Dec-23	36
AS512410f	SAT of IDMS	180	09-May-23	04-Nov-23	14-Jun-23	10-Dec-23	36
AS512420f	Overall Testing for Whole System	90	05-Nov-23	02-Feb-24	11-Dec-23	09-Mar-24	36
T&C of E&M Process							
AS510100	SAT of THP System	15	24-Feb-23	10-Mar-23	05-Apr-23	19-Apr-23	40
AS510200a	System Commissioning Tests for THP System	30	11-Mar-23	09-Apr-23	20-Apr-23	19-May-23	40
AS510300	SAT for Sludge Dewatering System	15	11-Dec-22	25-Dec-22	06-Mar-23	20-Mar-23	85
AS510400	System Commissioning Tests for Sludge Dewatering System	30	10-Apr-23	09-May-23	20-Apr-23	19-May-23	10
AS510500	SAT for Biogas Storage System	30	21-Mar-23	19-Apr-23	21-Mar-23	19-Apr-23	0
AS510600	System Commissioning Tests for Biogas Storage System	30	20-Apr-23	19-May-23	20-Apr-23	19-May-23	0
AS510700	SAT for Sludge Digestion System	45	04-Feb-23	20-Mar-23	21-Mar-23	04-May-23	45
AS510800	System Commissioning Tests for Sludge Digestion System	30	05-May-23	03-Jun-23	05-May-23	03-Jun-23	0
AS510900	SAT for Gas Burning System	15	09-Apr-23	23-Apr-23	05-May-23	19-May-23	26
AS511000	System Commissioning Tests for Gas Burning System	30	20-May-23	18-Jun-23	20-May-23	18-Jun-23	0
AS511100	SAT for CHP System	30	09-Apr-23	08-May-23	20-Apr-23	19-May-23	11
AS511200	System Commissioning Tests for CHP System	30	20-May-23	18-Jun-23	20-May-23	18-Jun-23	0
AS511300b	SAT & System Commissioning Tests for Other Facilities	45	28-Apr-23	11-Jun-23	05-May-23	18-Jun-23	7
AS512100	Seeding	14	05-Jun-23	18-Jun-23	05-Jun-23	18-Jun-23	0
AS512200a	Process Start Up - Digester 1	120	19-Jun-23	16-Oct-23	19-Jun-23	16-Oct-23	0
AS512300a	Notice to Commence Phase 1 System Commissioning - Digester 1	3	17-Oct-23	19-Oct-23	09-Dec-23	11-Dec-23	53
AS512400a	Phase 1 System Commissioning - Digester 1	30	20-Oct-23	18-Nov-23	12-Dec-23	10-Jan-24	53
AS512500a	Process Start Up - Digester 2	120	11-Aug-23	08-Dec-23	11-Aug-23	08-Dec-23	0
AS512600a	Notice to Commence Phase 1 System Commissioning - Digester 2	3	09-Dec-23	11-Dec-23	09-Dec-23	11-Dec-23	0
AS512700a	Phase 1 System Commissioning - Digester 2	30	12-Dec-23	10-Jan-24	12-Dec-23	10-Jan-24	0
AS512800a	Phase 2 System Commissioning - Digester 1 & 2	7	11-Jan-24	17-Jan-24	11-Jan-24	17-Jan-24	0
AS512900a	Notice to Commence Plant Commissioning	7	18-Jan-24	24-Jan-24	18-Jan-24	24-Jan-24	0
AS513000a	Plant Commissioning Tests	45	25-Jan-24	09-Mar-24	25-Jan-24	09-Mar-24	0

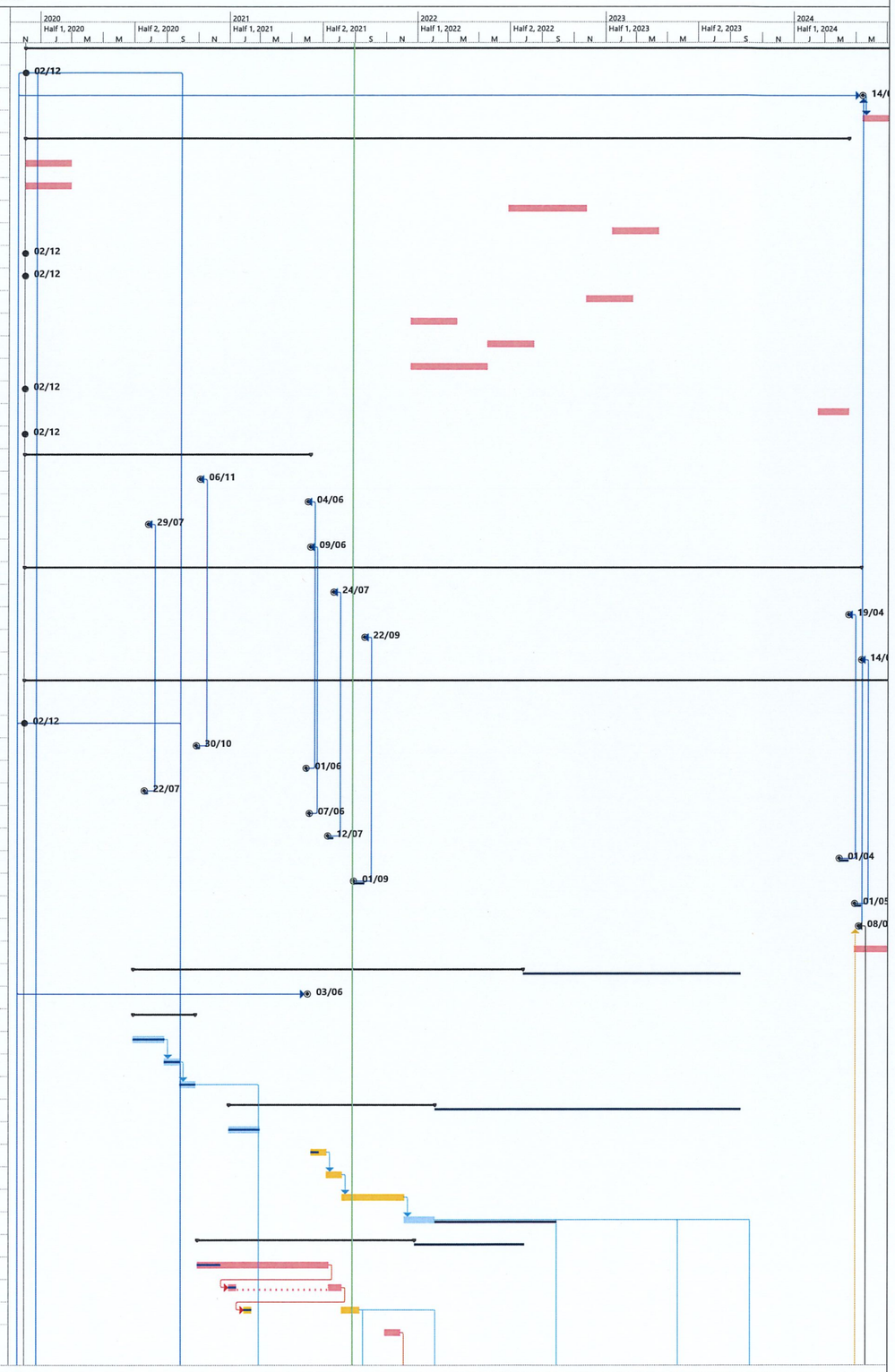


Remaining Work
Critical Activity
Milestone
Actual Progress

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

Date	Revision	Checked	Approved
29-Mar-21	Rev.8	LT	KM
30-Apr-21	Rev.9	LT	KM
31-May-21	Rev.10	LT	KM
30-Jun-21	Rev.11	LT	KM
31-Jul-21	Rev.12	LT	KM

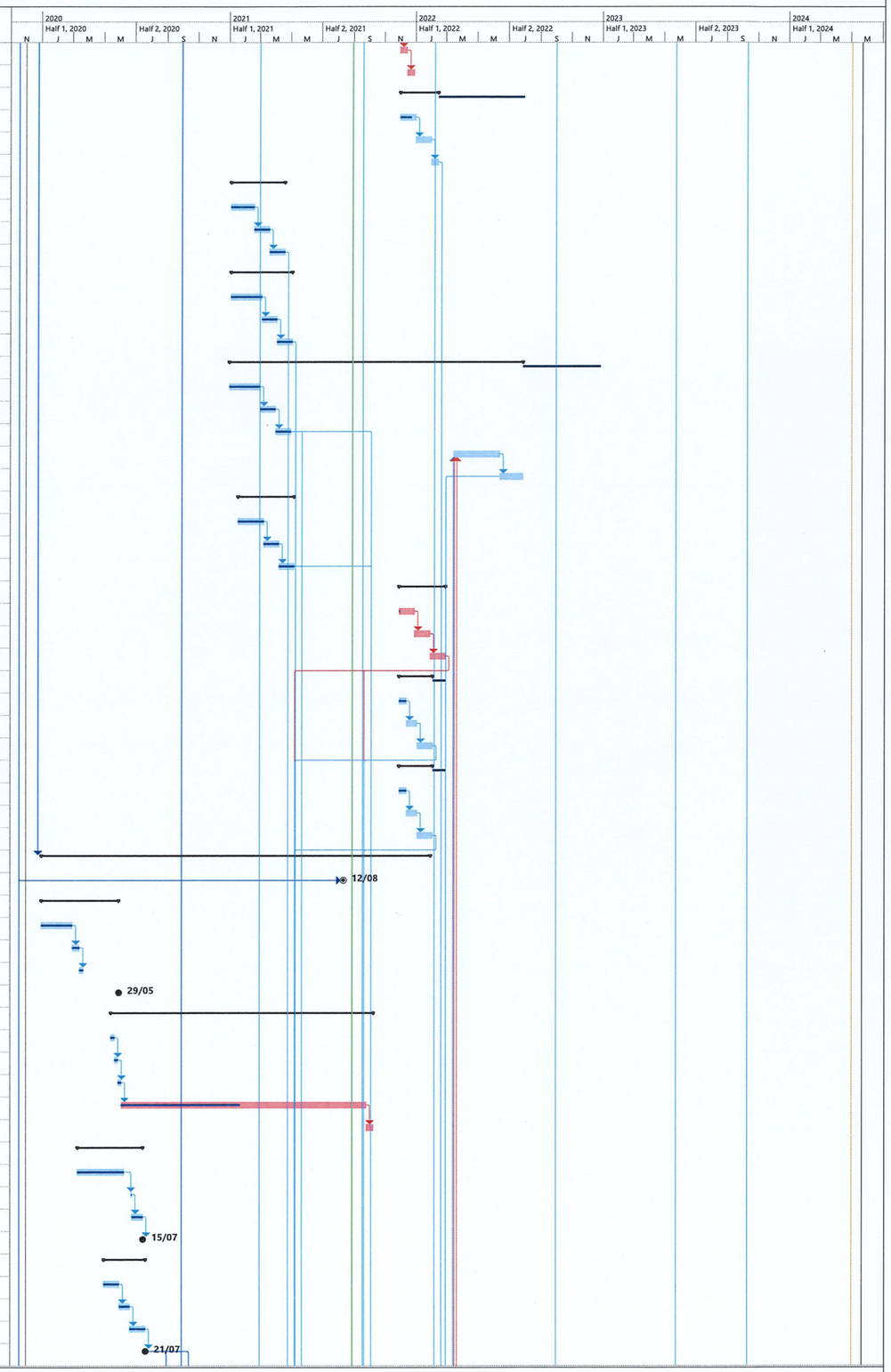
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
1	1	1	**DE/2018/04 - Contract Master Programme**	**1990 days**	**Mon 02/12/19**	**Tue 13/05/25**	**Mon 02/12/19**	**Tue 13/05/25**	**0 days**			
2	2	1.1	Starting Date	0 days	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/...	0 days		3SS+1625 edays,628,202	
3	3	1.2	Completion Date	0 days	Tue 14/05/24	Tue 14/05/24	Tue 14/05/24	Tue 14/05/24	0 days	2SS+1625 e	4	
4	4	1.3	Defect Dates with respect to Completion Date	365 days	Tue 14/05/24	Tue 13/05/25	Tue 14/05/24	Tue 13/05/25	0 days	3		
5	5	2	**Access Dates**	**1599 days**	**Mon 02/12/19**	**Thu 18/04/24**	**Mon 02/12/19**	**Thu 18/04/24**	**0 days**			
6	6	2.1	Access Date for Works Area WA1-C	90 days	Mon 02/12/19	Sat 29/02/20	Mon 02/12/19	Sat 29/02/20	0 days			
7	7	2.2	Access Date for Works Area WA2-C	90 days	Mon 02/12/19	Sat 29/02/20	Mon 02/12/19	Sat 29/02/20	0 days			
8	8	2.3	Access Date for Portion B-2, Inlet Works No. 1	150 edays	Tue 28/06/22	Fri 25/11/22	Tue 28/06/22	Fri 25/11/22	0 edays			
9	9	2.4	Access Date for Portion B-3, PST No. 1~4	90 edays	Sat 14/01/23	Fri 14/04/23	Sat 14/01/23	Fri 14/04/23	0 edays			
10	10	2.5	Access Date for Portion B-3A, Existing PST No. 4 and No. 6	0 days	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/...	0 days			
11	11	2.6	Access Date for Portion B-3B, Temporary Filtrate Lifting Well and Eq. Tank	0 days	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/...	0 days			
12	12	2.7	Access Date for Portion B-4, BR 2A & 2B	90 edays	Fri 25/11/22	Thu 23/02/23	Fri 25/11/22	Thu 23/02/23	0 edays			
13	13	2.8	Access Date for Portion B-5A, MFB No. 2 below 1st floor level	90 edays	Mon 20/12/21	Sun 20/03/22	Mon 20/12/21	Sun 20/03/22	0 edays			
14	14	2.9	Access Date for Portion B-5B, MFB No. 2 remaining portion	90 edays	Thu 19/05/22	Wed 17/08/22	Thu 19/05/22	Wed 17/08/...	0 edays			
15	15	2.10	Access Date for Portion B-7 & 7B, Chemical Dosing, Concrete Plinth for DOs,	150 edays	Mon 20/12/21	Thu 19/05/22	Mon 20/12/21	Thu 19/05/22	0 edays			
16	16	2.11	Access Date for Portion B-7A & 7B, area for modification of existing emerge	0 edays	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/...	0 edays			
17	17	2.12	Access Date for Portion B-9B, underground pipework	60 edays	Sun 18/02/24	Thu 18/04/24	Sun 18/02/24	Thu 18/04/24	0 edays			
18	18	2.13	Access Date for B-10, existing sludge thickening building	0 edays	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/...	0 edays			
19	19	3	**Key Dates**	**555 days**	**Mon 02/12/19**	**Wed 09/06/21**	**Mon 02/12/19**	**Wed 09/06...**	**0 days**			
20	20	3.1	KD1A - Submission of civil and dimensional requirement drawings, electrical	340 edays	Mon 02/12/19	Fri 06/11/20	Mon 02/12/19	Fri 06/11/20	0 edays	31FF		
21	21	3.2	KD1B - Submission of remaining civil and dimensional requirement drawings	550 edays	Mon 02/12/19	Fri 04/06/21	Mon 02/12/19	Fri 04/06/21	0 edays	32FF		
22	22	3.3	KD3A - Completion of E&M Installation works of existing power house in Po	240 edays	Mon 02/12/19	Wed 29/07/20	Mon 02/12/19	Wed 29/07/...	0 edays	33FF		
23	23	3.4	KD3B - Completion of all work for reprovision of the existing Primary Sedim	555 edays	Mon 02/12/19	Wed 09/06/21	Mon 02/12/19	Wed 09/06/...	0 edays	34FF		
24	24	4	**Sectional Completion Dates**	**1625 days**	**Mon 02/12/19**	**Tue 14/05/24**	**Mon 02/12/19**	**Tue 14/05/24**	**0 days**			
25	25	4.1	Section 1 - Completion of the design of E&M Works for all works as defined	600 edays	Mon 02/12/19	Sat 24/07/21	Mon 02/12/19	Sat 24/07/21	0 edays	35FF		
26	26	4.2	Section 2 - Completion of all works for Inlet Works, PST No. 1~4, BR No. 2A &	1600 edays	Mon 02/12/19	Fri 19/04/24	Mon 02/12/19	Fri 19/04/24	0 edays	36FF		
27	27	4.3	Section 3 - Completion of all works for retrofitting of the existing PST...etc (6	660 edays	Mon 02/12/19	Wed 22/09/21	Mon 02/12/19	Wed 22/09/...	0 edays	37FF		
28	28	4.4	Section 4 - Completion of Work for remainder of the works (1625 days after	1625 edays	Mon 02/12/19	Tue 14/05/24	Mon 02/12/19	Tue 14/05/24	0 edays	38FF		
29	29	5	**DE/2018/04 - the Contractor's Programme (w/ Defects Date of Planned Completion Date)**	**1977 days**	**Mon 02/12/19**	**Wed 30/04/25**	**Mon 02/12/19**	**Wed 30/04/25**	**0 days**			
30	30	5.1	Starting Date	0 days	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/...	0 days		628,202SS+30 edays,425	
31	31	5.2	Planned Key Date Completion Date - KD1A	0 days	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	7 days		20FF	
32	32	5.3	Planned Key Date Completion Date - KD1B	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	3 days		21FF	
33	33	5.4	Planned Key Date Completion Date - KD3A	0 days	Wed 22/07/20	Wed 22/07/20	Wed 22/07/20	Wed 22/07/...	7 days		22FF	
34	34	5.5	Planned Key Date Completion Date - KD3B	0 days	Mon 07/06/21	Mon 07/06/21	Mon 07/06/21	Mon 07/06/...	2 days		23FF	
35	35	5.6	Planned Sectional Completion Date - Section 1	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	11 days		25FF	
36	36	5.7	Planned Sectional Completion Date - Section 2	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	18 days		26FF	
37	37	5.8	Planned Sectional Completion Date - Section 3	0 days	Wed 01/09/21	Wed 01/09/21	Wed 01/09/21	Wed 01/09/...	21 days		27FF	
38	38	5.9	Planned Sectional Completion Date - Section 4	0 days	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/...	13 days		28FF	
39	39	5.10	Planned Completion Date	0 days	Wed 08/05/24	Wed 08/05/24	Wed 08/05/24	Wed 08/05/...	5 days	1284,1285,13		
40	40	5.11	Defect Dates with respect to planned completion date	365 days	Wed 01/05/24	Wed 30/04/25	Wed 01/05/24	Wed 30/04/...	0 days			
41	41	5.12	**Part A: Procurement and Delivery of Major Plant and Materials**	**758 days**	**Wed 01/07/20**	**Thu 28/07/22**	**Wed 01/07/20**	**Thu 28/07/22**	**422 days**			
42	42	5.12.1	Planned Completion Date for Procurement of major plant and materials	0 days	Thu 03/06/21	Thu 03/06/21	Thu 03/06/21	Thu 03/06/21	0 days	30SS+550 d		
43	43	5.12.2	**General - stoplogs and penstocks, C11, EQT013**	**120 days**	**Wed 01/07/20**	**Wed 28/10/20**	**Wed 01/07/20**	**Wed 28/10...**	**0 days**			
44	44	5.12.2.1	Submission for acceptance of purchasing package	60 days	Wed 01/07/20	Sat 29/08/20	Wed 01/07/20	Sat 29/08/20	0 days		45	
45	45	5.12.2.2	Invitation of quotations for purchasing package	30 days	Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/...	0 days	44	46	
46	46	5.12.2.3	Acceptance of conforming quotation (Completed)	30 days	Tue 29/09/20	Wed 28/10/20	Tue 29/09/20	Wed 28/10/...	0 days	45	253	
47	47	5.12.3	**General - Instrumentations except use at BR, C11, EQT035-1**	**401 days**	**Sat 02/01/21**	**Sun 06/02/22**	**Sat 02/01/21**	**Sun 06/02/22**	**594 days**			
48	48	5.12.3.1	Submission for acceptance of purchasing package	60 days	Sat 02/01/21	Tue 02/03/21	Sat 02/01/21	Tue 02/03/21	0 days			
49	49	5.12.3.2	Invitation of quotations for purchasing package (Rev. 10)	30 days	Fri 11/06/21	Sat 10/07/21	Fri 11/06/21	Sat 10/07/21	0 days		50	
50	50	5.12.3.3	Acceptance of conforming quotation (Rev. 10)	30 days	Sun 11/07/21	Mon 09/08/21	Sun 11/07/21	Mon 09/08/...	0 days	49	51	
51	51	5.12.3.4	Manufacturing and Factory Acceptance Test of Plant (Rev. 10)	121 days	Tue 10/08/21	Wed 08/12/21	Tue 10/08/21	Wed 08/12/...	0 days	50	52	
52	52	5.12.3.5	Shipping and Delivery of Plant (Rev. 10)	60 days	Thu 09/12/21	Sun 06/02/22	Thu 09/12/21	Sun 06/02/22	237 days	51	335,465,747	
53	53	5.12.4	**General - pipework and valves, C11, ref. EQT036 (Rev. 11)**	**422 days**	**Mon 02/11/20**	**Tue 28/12/21**	**Mon 02/11/20**	**Tue 28/12/21**	**214 days**			
54	54	5.12.4.1	Submission for acceptance of purchasing package (Rev. 11)	255 days	Mon 02/11/20	Wed 14/07/21	Mon 02/11/20	Wed 14/07/...	0 days		55	
55	55	5.12.4.2	Invitation of quotations for purchasing package (Rev. 11)	40 days	Fri 01/01/21	Sun 08/08/21	Fri 01/01/21	Sun 08/08/21	0 days	54	56	
56	56	5.12.4.3	Acceptance of conforming quotation (Rev. 11)	50 days	Sun 31/01/21	Sun 12/09/21	Sun 31/01/21	Sun 12/09/21	0 days	55	279,285,429,558,681	
57	57	5.12.4.4	Submission for acceptance of purchasing package for remaining pipework and valves (Rev. 13)	30 days	Mon 01/11/21	Tue 30/11/21	Mon 01/11/21	Tue 30/11/21	0 days		58	



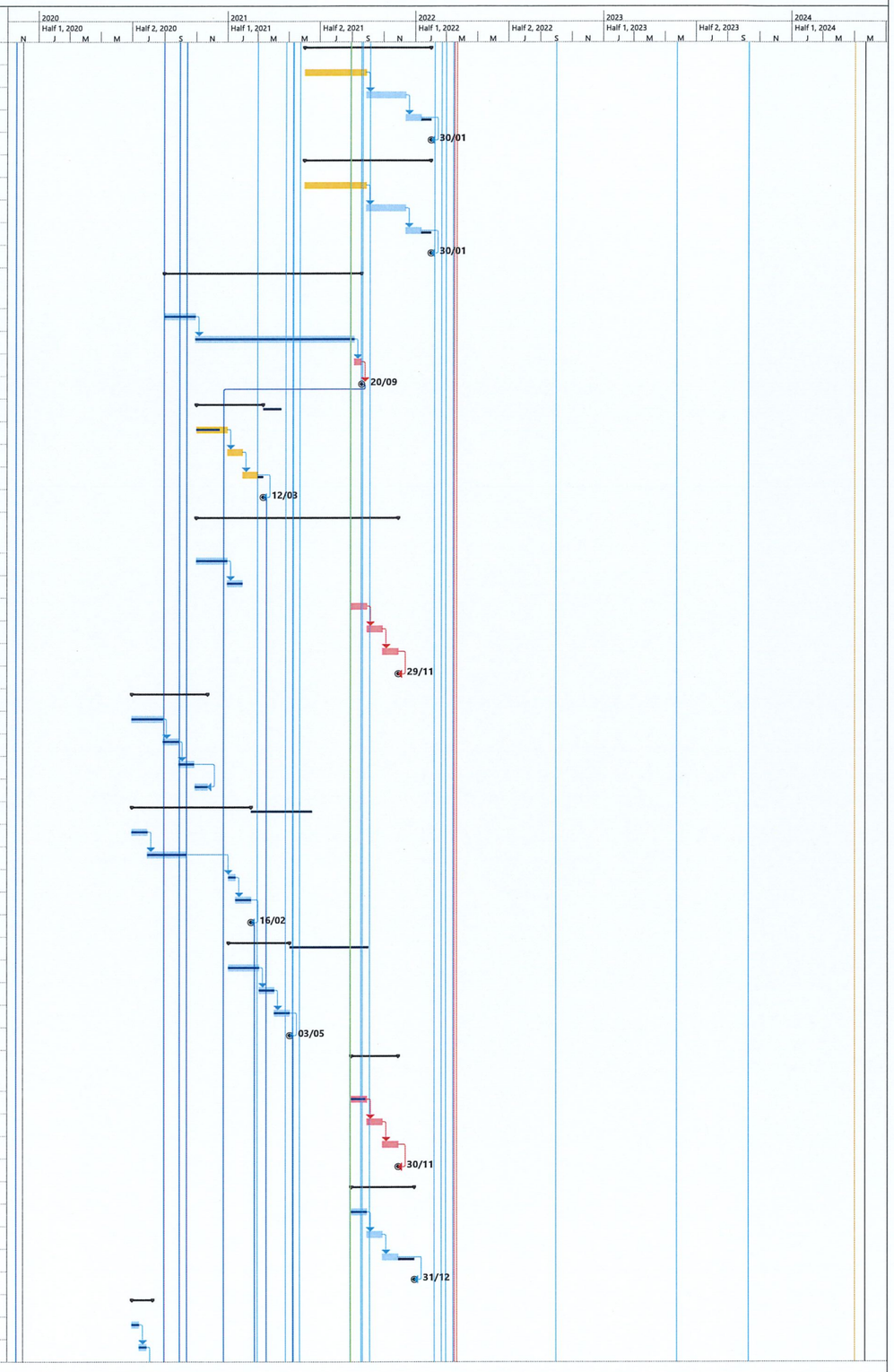
Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
58	58	5.12.4.5	Invitation of quotations for purchasing package (Rev. 13)	14 days	Wed 01/12/21	Tue 14/12/21	Wed 01/12/21	Tue 14/12/21	0 days	57	59	
59	59	5.12.4.6	Acceptance of conforming quotation (Rev. 13)	14 days	Wed 15/12/21	Tue 28/12/21	Wed 15/12/21	Tue 28/12/21	0 days	58		
60	**60**	**5.12.5**	**General - Electric actuators, C11, ref. EQT042 (Rev. 11)**	**74 days**	**Thu 02/12/21**	**Sun 13/02/22**	**Thu 02/12/21**	**Sun 13/02/22**	**167 days**			
61	61	5.12.5.1	Submission for acceptance of purchasing package (Rev. 11)	30 days	Thu 02/12/21	Fri 31/12/21	Thu 02/12/21	Fri 31/12/21	0 days		62	
62	62	5.12.5.2	Invitation of quotations for purchasing package (Rev. 11)	30 days	Sat 01/01/22	Sun 30/01/22	Sat 01/01/22	Sun 30/01/22	0 days	61	63	
63	63	5.12.5.3	Acceptance of conforming quotation (Rev. 11)	14 days	Mon 31/01/22	Sun 13/02/22	Mon 31/01/22	Sun 13/02/22	0 days	62	285,429,558,681	
64	**64**	**5.12.6**	**General - HV Switchboards, C9, ref. EQT031 (Rev. 5)**	**105 days**	**Mon 04/01/21**	**Sun 18/04/21**	**Mon 04/01/21**	**Sun 18/04/21**	**0 days**			
65	65	5.12.6.1	Submission for acceptance of purchasing package	45 days	Mon 04/01/21	Wed 17/02/21	Mon 04/01/21	Wed 17/02/...	0 days		66	
66	66	5.12.6.2	Invitation of quotations for purchasing package	30 days	Thu 18/02/21	Fri 19/03/21	Thu 18/02/21	Fri 19/03/21	0 days	65	67	
67	67	5.12.6.3	Acceptance of conforming quotation (Rev. 11, Completed)	30 days	Sat 20/03/21	Sun 18/04/21	Sat 20/03/21	Sun 18/04/21	0 days	66	656,257	
68	**68**	**5.12.7**	**General - LV Switchboards, C9, ref. EQT033 (Rev. 5)**	**120 days**	**Mon 04/01/21**	**Mon 03/05/21**	**Mon 04/01/21**	**Mon 03/05...**	**0 days**			
69	69	5.12.7.1	Submission for acceptance of purchasing package	60 days	Mon 04/01/21	Thu 04/03/21	Mon 04/01/21	Thu 04/03/21	0 days		70	
70	70	5.12.7.2	Invitation of quotations for purchasing package	30 days	Fri 05/03/21	Sat 03/04/21	Fri 05/03/21	Sat 03/04/21	0 days	69	71	
71	71	5.12.7.3	Acceptance of conforming quotation (Rev. 11, Completed)	30 days	Sun 04/04/21	Mon 03/05/21	Sun 04/04/21	Mon 03/05/...	0 days	70	256,531,402,655	
72	**72**	**5.12.8**	**General - VSDs & Passive Type Harmonic Filters, C11, ref. EQT034 (Rev. 5**	**574 days**	**Fri 01/01/21**	**Thu 28/07/22**	**Fri 01/01/21**	**Thu 28/07/22**	**152 days**			
73	73	5.12.8.1	Submission for acceptance of purchasing package	60 days	Fri 01/01/21	Mon 01/03/21	Fri 01/01/21	Mon 01/03/...	0 days		74	
74	74	5.12.8.2	Invitation of quotations for purchasing package	30 days	Tue 02/03/21	Wed 31/03/21	Tue 02/03/21	Wed 31/03/...	0 days	73	75	
75	75	5.12.8.3	Acceptance of conforming quotation (Rev. 11, Completed)	30 days	Thu 01/04/21	Fri 30/04/21	Thu 01/04/21	Fri 30/04/21	0 days	74	254,400,529,652	
76	76	5.12.8.4	Manufacturing and Factory Acceptance Test of Plant	90 days	Wed 16/03/22	Mon 13/06/22	Wed 16/03/22	Mon 13/06/...	0 days	254,400,525	77	
77	77	5.12.8.5	Shipping and Delivery of Plant to LVSB Sub-Contractor	45 days	Tue 14/06/22	Thu 28/07/22	Tue 14/06/22	Thu 28/07/22	0 days	76	292SS-90 edays	
78	**78**	**5.12.9**	**General - 11kV/380V Stepdown Power Transformers, C11, EQT032 (Rev.**	**110 days**	**Mon 18/01/21**	**Fri 07/05/21**	**Mon 18/01/21**	**Fri 07/05/21**	**0 days**			
79	79	5.12.9.1	Submission for acceptance of purchasing package	50 days	Mon 18/01/21	Mon 08/03/21	Mon 18/01/21	Mon 08/03/...	0 days		80	
80	80	5.12.9.2	Invitation of quotations for purchasing package	30 days	Tue 09/03/21	Wed 07/04/21	Tue 09/03/21	Wed 07/04/...	0 days	79	81	
81	81	5.12.9.3	Acceptance of conforming quotation (Rev. 11, Completed)	30 days	Thu 08/04/21	Fri 07/05/21	Thu 08/04/21	Fri 07/05/21	0 days	80	254,652	
82	**82**	**5.12.10**	**General - UPS, C11, EQT061 (Rev. 10)**	**90 days**	**Wed 01/12/21**	**Mon 28/02/22**	**Wed 01/12/21**	**Mon 28/02...**	**0 days**			
83	83	5.12.10.1	Submission for acceptance of purchasing package (Rev. 13)	30 days	Wed 01/12/21	Thu 30/12/21	Wed 01/12/21	Thu 30/12/21	0 days		84	
84	84	5.12.10.2	Invitation of quotations for purchasing package (Rev. 13)	30 days	Fri 31/12/21	Sat 29/01/22	Fri 31/12/21	Sat 29/01/22	0 days	83	85	
85	85	5.12.10.3	Acceptance of conforming quotation (Rev. 13)	30 days	Sun 30/01/22	Mon 28/02/22	Sun 30/01/22	Mon 28/02/...	0 days	84	254,400,529,652	
86	**86**	**5.12.11**	**General - HV Cables, C11, EQT041 (Rev. 13)**	**65 days**	**Wed 01/12/21**	**Thu 03/02/22**	**Wed 01/12/21**	**Thu 03/02/22**	**25 days**			
87	87	5.12.11.1	Submission for acceptance of purchasing package	14 days	Wed 01/12/21	Tue 14/12/21	Wed 01/12/21	Tue 14/12/21	0 days		88	
88	88	5.12.11.2	Invitation of quotations for purchasing package	21 days	Wed 15/12/21	Tue 04/01/22	Wed 15/12/21	Tue 04/01/22	0 days	87	89	
89	89	5.12.11.3	Acceptance of conforming quotation	30 days	Wed 05/01/22	Thu 03/02/22	Wed 05/01/22	Thu 03/02/22	0 days	88	254,652	
90	**90**	**5.12.12**	**General - LV Cables, C11, EQT042 (Rev. 13)**	**65 days**	**Wed 01/12/21**	**Thu 03/02/22**	**Wed 01/12/21**	**Thu 03/02/22**	**25 days**			
91	91	5.12.12.1	Submission for acceptance of purchasing package	14 days	Wed 01/12/21	Tue 14/12/21	Wed 01/12/21	Tue 14/12/21	0 days		92	
92	92	5.12.12.2	Invitation of quotations for purchasing package	21 days	Wed 15/12/21	Tue 04/01/22	Wed 15/12/21	Tue 04/01/22	0 days	91	93	
93	93	5.12.12.3	Acceptance of conforming quotation	30 days	Wed 05/01/22	Thu 03/02/22	Wed 05/01/22	Thu 03/02/22	0 days	92	254,400,529,652	
94	**94**	**5.13**	**Part B: Subletting of major sub-contract works**	**761 days**	**Wed 01/01/20**	**Sun 30/01/22**	**Wed 01/01/20**	**Sun 30/01/22**	**0 days**	2,30		
95	95	5.13.1	Planned Completion Date for major sub-contract works	0 days	Thu 12/08/21	Thu 12/08/21	Thu 12/08/21	Thu 12/08/21	0 days	2SS+620 day		
96	**96**	**5.13.2**	**General - Independent BEAM Plus Consultant (04SC007)**	**150 days**	**Wed 01/01/20**	**Fri 29/05/20**	**Wed 01/01/20**	**Fri 29/05/20**	**0 days**			
97	97	5.13.2.1	Submission for acceptance of proposed Independent BEAM Plus Consu	60 edays	Wed 01/01/20	Sun 01/03/20	Wed 01/01/20	Sun 01/03/20	0 edays		98	
98	98	5.13.2.2	Acceptance of proposed Independent BEAM Plus Consultant	14 edays	Sun 01/03/20	Sun 15/03/20	Sun 01/03/20	Sun 15/03/20	0 edays	97	99	
99	99	5.13.2.3	Engagement with an Independent BEAM Plus Consultant	7 days	Sun 15/03/20	Sat 21/03/20	Sun 15/03/20	Sat 21/03/20	0 days	98		
100	100	5.13.2.4	Actual Date for engagement with an independent BEAM Plus Consultar	0 days	Fri 29/05/20	Fri 29/05/20	Fri 29/05/20	Fri 29/05/20	0 days			
101	**101**	**5.13.3**	**General - Conduction of Pump sump physical model test (Rev. 13)**	**514 days**	**Fri 15/05/20**	**Sun 10/10/21**	**Fri 15/05/20**	**Sun 10/10/21**	**0 days**			
102	102	5.13.3.1	Submission for acceptance of proposed hydraulic laboratory to conduc	7 edays	Fri 15/05/20	Fri 22/05/20	Fri 15/05/20	Fri 22/05/20	0 edays		103	
103	103	5.13.3.2	Invitation to quotations for provision of service	7 edays	Fri 22/05/20	Fri 29/05/20	Fri 22/05/20	Fri 29/05/20	0 edays	102	104	
104	104	5.13.3.3	Acceptance of proposed hydraulic laboratory	6 days	Fri 29/05/20	Wed 03/06/20	Fri 29/05/20	Wed 03/06/...	0 days	103	105	
105	105	5.13.3.4	Commencement of detailed proposal and conduction of test (Rev 13)	480 days	Thu 04/06/20	Sun 26/09/21	Thu 04/06/20	Sun 26/09/21	0 days	104	106	
106	106	5.13.3.5	Acceptance of hydraulic Report (Rev 13)	14 days	Mon 27/09/21	Sun 10/10/21	Mon 27/09/21	Sun 10/10/21	0 days	105		
107	**107**	**5.13.4**	**General - Independent Checking Engineer (04SC004)**	**127 days**	**Wed 11/03/20**	**Wed 15/07/20**	**Wed 11/03/20**	**Wed 15/07...**	**0 days**			
108	108	5.13.4.1	Submission for acceptance of proposed Independent Checking Enginee	90 edays	Wed 11/03/20	Tue 09/06/20	Wed 11/03/20	Tue 09/06/20	0 edays		109	
109	109	5.13.4.2	Acceptance of proposed Independent Checking Engineer	1 eday	Wed 24/06/20	Thu 25/06/20	Wed 24/06/20	Thu 25/06/20	0 edays	108	110	
110	110	5.13.4.3	Engagement with an Independent Checking Engineer	21 days	Thu 25/06/20	Wed 15/07/20	Thu 25/06/20	Wed 15/07/...	0 days	109	111	
111	111	5.13.4.4	Actual Date for engagement with an ICE (Completed)	0 days	Wed 15/07/20	Wed 15/07/20	Wed 15/07/20	Wed 15/07/...	0 days	110		
112	**112**	**5.13.5**	**General - Lifting Appliances (04SC008)**	**81 days**	**Fri 01/05/20**	**Tue 21/07/20**	**Fri 01/05/20**	**Tue 21/07/20**	**0 days**			
113	113	5.13.5.1	Submission for acceptance of subcontract works package	30 edays	Fri 01/05/20	Sun 31/05/20	Fri 01/05/20	Sun 31/05/20	0 edays		114	
114	114	5.13.5.2	Invitation of tender for subcontract works	21 edays	Sun 31/05/20	Sun 21/06/20	Sun 31/05/20	Sun 21/06/20	0 edays	113	115	
115	115	5.13.5.3	Acceptance of conforming tender	30 edays	Sun 21/06/20	Tue 21/07/20	Sun 21/06/20	Tue 21/07/20	0 edays	114	116	
116	116	5.13.5.4	Sub-contract work commencement date (Completed)	0 days	Tue 21/07/20	Tue 21/07/20	Tue 21/07/20	Tue 21/07/20	0 days	115	258,403,532,657,1047	



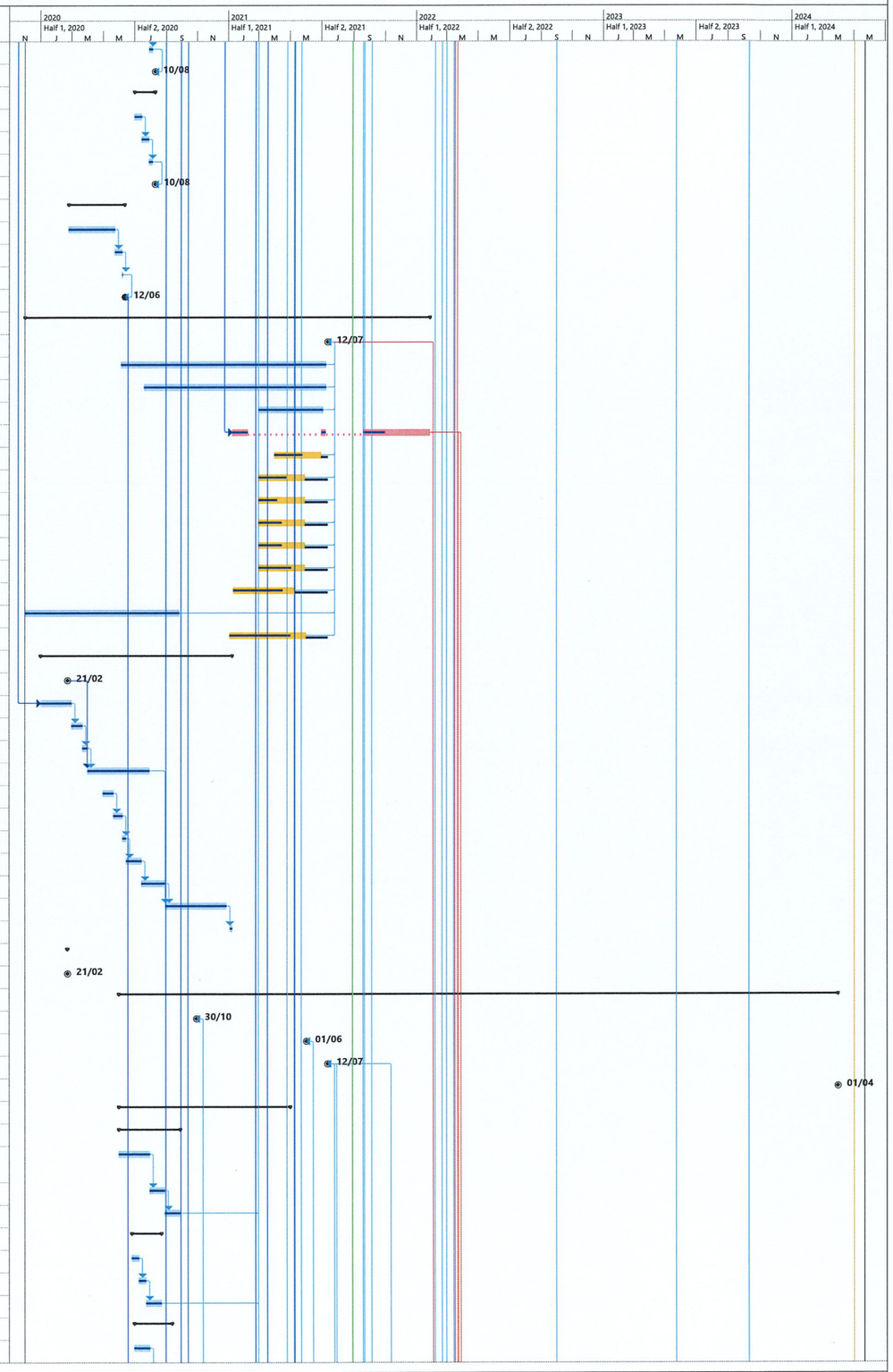
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
117	**117**	**5.13.6**	**General - Mechanical Installations**	**244 days**	**Tue 01/06/21**	**Sun 30/01/22**	**Tue 01/06/21**	**Sun 30/01/22**	**0 days**			
118	118	5.13.6.1	Submission for acceptance of subcontract works package	120 days	Tue 01/06/21	Tue 28/09/21	Tue 01/06/21	Tue 28/09/21	0 days		119	
119	119	5.13.6.2	Invitation of tender for subcontract works	75 days	Wed 29/09/21	Sun 12/12/21	Wed 29/09/21	Sun 12/12/21	0 days	118	120	
120	120	5.13.6.3	Acceptance of conforming tender	30 days	Mon 13/12/21	Tue 11/01/22	Mon 13/12/21	Tue 11/01/22	19 days	119	121FF	
121	121	5.13.6.4	Sub-contract work commencement date	1 day	Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	0 days	120FF		
122	**122**	**5.13.7**	**General - Electrical Installations**	**244 days**	**Tue 01/06/21**	**Sun 30/01/22**	**Tue 01/06/21**	**Sun 30/01/22**	**0 days**			
123	123	5.13.7.1	Submission for acceptance of subcontract works package	120 edays	Tue 01/06/21	Wed 29/09/21	Tue 01/06/21	Wed 29/09/...	0 edays		124	
124	124	5.13.7.2	Invitation of tender for subcontract works	75 edays	Wed 29/09/21	Mon 13/12/21	Wed 29/09/21	Mon 13/12/...	0 edays	123	125	
125	125	5.13.7.3	Acceptance of conforming tender	30 edays	Mon 13/12/21	Wed 12/01/22	Mon 13/12/21	Wed 12/01/...	18.38 edays	124	126FF	
126	126	5.13.7.4	Sub-contract work commencement date	1 day	Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	0 days	125FF		
127	**127**	**5.13.8**	**General - Facility Computerized Systems (SCADA, CMMS, PMS, IDMS) (Rev. 13) 04SC018**	**384 days**	**Tue 01/09/20**	**Mon 20/09/21**	**Tue 01/09/20**	**Mon 20/09/21**	**0 days**			
128	128	5.13.8.1	Submission for acceptance of subcontract works package	60 edays	Tue 01/09/20	Sat 31/10/20	Tue 01/09/20	Sat 31/10/20	0 edays		129	
129	129	5.13.8.2	Invitation of tender for subcontract works	310 edays	Sat 31/10/20	Mon 06/09/21	Sat 31/10/20	Mon 06/09/...	0 edays	128	130	
130	130	5.13.8.3	Acceptance of conforming tender	14 edays	Mon 06/09/21	Mon 20/09/21	Mon 06/09/21	Mon 20/09/...	0 edays	129	131	
131	131	5.13.8.4	Sub-contract work commencement date	0 days	Mon 20/09/21	Mon 20/09/21	Mon 20/09/21	Mon 20/09/...	0 days	130	190	
132	**132**	**5.13.9**	**General - Building Services Installations**	**130 days**	**Mon 02/11/20**	**Fri 12/03/21**	**Mon 02/11/20**	**Fri 12/03/21**	**36 days**			
133	133	5.13.9.1	Submission for acceptance of subcontract works package	60 edays	Mon 02/11/20	Fri 01/01/21	Mon 02/11/20	Fri 01/01/21	0 edays		134	
134	134	5.13.9.2	Invitation of tender for subcontract works	30 edays	Fri 01/01/21	Sun 31/01/21	Fri 01/01/21	Sun 31/01/21	0 edays	133	135	
135	135	5.13.9.3	Acceptance of conforming tender	30 edays	Sun 31/01/21	Tue 02/03/21	Sun 31/01/21	Tue 02/03/21	10 edays	134	136FF	
136	136	5.13.9.4	Sub-contract work commencement date	0 days	Fri 12/03/21	Fri 12/03/21	Fri 12/03/21	Fri 12/03/21	0 days	135FF	255,401,530,654,799,879	
137	**137**	**5.13.10**	**General - Mechanical Ventilation and Air Conditioning Installation (Rev. 13) (04SC020)**	**393 days**	**Mon 02/11/20**	**Mon 29/11/21**	**Mon 02/11/20**	**Mon 29/11/21**	**0 days**			
138	138	5.13.10.1	Submission for acceptance of subcontract works package	60 days	Mon 02/11/20	Thu 31/12/20	Mon 02/11/20	Thu 31/12/20	0 days		139	
139	139	5.13.10.2	Invitation of tender for subcontract works	30 edays	Thu 31/12/20	Sat 30/01/21	Thu 31/12/20	Sat 30/01/21	0 edays	138		
140	140	5.13.10.3	Submission for acceptance of revised subcontract works package (Rev.	30 days	Wed 01/09/21	Thu 30/09/21	Wed 01/09/21	Thu 30/09/21	0 days		141	
141	141	5.13.10.4	Invitation of tender for subcontract works (Rev. 13)	30 days	Fri 01/10/21	Sat 30/10/21	Fri 01/10/21	Sat 30/10/21	0 days	140	142	
142	142	5.13.10.5	Acceptance of conforming tender (Rev. 13)	30 days	Sun 31/10/21	Mon 29/11/21	Sun 31/10/21	Mon 29/11/...	0 days	141	143FF	
143	143	5.13.10.6	Sub-contract work commencement date	0 days	Mon 29/11/21	Mon 29/11/21	Mon 29/11/21	Mon 29/11/...	0 days	142FF		
144	**144**	**5.13.11**	**General - Emergency Power Generator Set (04SC006)**	**146 days**	**Wed 01/07/20**	**Mon 23/11/20**	**Wed 01/07/20**	**Mon 23/11...**	**0 days**			
145	145	5.13.11.1	Submission for acceptance of subcontract works package	60 edays	Wed 01/07/20	Sun 30/08/20	Wed 01/07/20	Sun 30/08/20	0 edays		146	
146	146	5.13.11.2	Invitation of tender for subcontract works	30 edays	Sun 30/08/20	Tue 29/09/20	Sun 30/08/20	Tue 29/09/20	0 edays	145	147	
147	147	5.13.11.3	Acceptance of conforming tender	30 edays	Tue 29/09/20	Thu 29/10/20	Tue 29/09/20	Thu 29/10/20	0 edays	146	148FF	
148	148	5.13.11.4	Sub-contract work commencement date (Completed)	24 days	Sat 31/10/20	Mon 23/11/20	Sat 31/10/20	Mon 23/11/...	0 days	147FF		
149	**149**	**5.13.12**	**General - Plumbing Installation (Rev. 5) (04SC021)**	**231 days**	**Wed 01/07/20**	**Tue 16/02/21**	**Wed 01/07/20**	**Tue 16/02/21**	**120 days**			
150	150	5.13.12.1	Submission for acceptance of subcontract works package	30 edays	Wed 01/07/20	Fri 31/07/20	Wed 01/07/20	Fri 31/07/20	0 edays		151	
151	151	5.13.12.2	Invitation of tender for subcontract works	75 edays	Fri 31/07/20	Wed 14/10/20	Fri 31/07/20	Wed 14/10/...	0 edays	150	152	
152	152	5.13.12.3	Retender of subcontract works (Rev. 5)	14 days	Mon 04/01/21	Sun 17/01/21	Mon 04/01/21	Sun 17/01/21	0 days	151	153	
153	153	5.13.12.4	Acceptance of conforming tender (Completed)	30 edays	Sun 17/01/21	Tue 16/02/21	Sun 17/01/21	Tue 16/02/21	0 edays	152	154FF	
154	154	5.13.12.5	Sub-contract work commencement date (Extended)	0 days	Tue 16/02/21	Tue 16/02/21	Tue 16/02/21	Tue 16/02/21	0 days	153FF	1238	
155	**155**	**5.13.13**	**General - Fire Services Installation (Rev. 5) (04SC019)**	**120 days**	**Mon 04/01/21**	**Mon 03/05/21**	**Mon 04/01/21**	**Mon 03/05...**	**153 days**			
156	156	5.13.13.1	Submission for acceptance of subcontract works package	60 days	Mon 04/01/21	Thu 04/03/21	Mon 04/01/21	Thu 04/03/21	0 days		157	
157	157	5.13.13.2	Invitation of tender for subcontract works	30 days	Fri 05/03/21	Sat 03/04/21	Fri 05/03/21	Sat 03/04/21	0 days	156	158	
158	158	5.13.13.3	Acceptance of conforming tender (Completed)	30 days	Sun 04/04/21	Mon 03/05/21	Sun 04/04/21	Mon 03/05/...	0 days	157	159FF	
159	159	5.13.13.4	Sub-contract work commencement date	0 days	Mon 03/05/21	Mon 03/05/21	Mon 03/05/21	Mon 03/05/...	0 days	158FF	1189	
160	**160**	**5.13.14**	**General - Lightning Protection System and Main Earthing System (Rev. 13) (04SC017)**	**90 days**	**Wed 01/09/21**	**Tue 30/11/21**	**Wed 01/09/21**	**Tue 30/11/21**	**0 days**			
161	161	5.13.14.1	Submission for acceptance of subcontract works package (Rev. 13)	30 edays	Wed 01/09/21	Fri 01/10/21	Wed 01/09/21	Fri 01/10/21	0 edays		162	
162	162	5.13.14.2	Invitation of tender for subcontract works (Rev. 13)	30 edays	Fri 01/10/21	Sun 31/10/21	Fri 01/10/21	Sun 31/10/21	0 edays	161	163	
163	163	5.13.14.3	Acceptance of conforming tender (Rev. 13)	30 edays	Sun 31/10/21	Tue 30/11/21	Sun 31/10/21	Tue 30/11/21	0 edays	162	164FF	
164	164	5.13.14.4	Sub-contract work commencement date (Rev. 13)	0 days	Tue 30/11/21	Tue 30/11/21	Tue 30/11/21	Tue 30/11/21	0 days	163FF		
165	**165**	**5.13.15**	**General - CCTV Installation (Rev. 13) (04SC016)**	**121 days**	**Wed 01/09/21**	**Fri 31/12/21**	**Wed 01/09/21**	**Fri 31/12/21**	**0 days**			
166	166	5.13.15.1	Submission for acceptance of subcontract works package	30 edays	Wed 01/09/21	Fri 01/10/21	Wed 01/09/21	Fri 01/10/21	0 edays		167	
167	167	5.13.15.2	Invitation of tender for subcontract works	30 edays	Fri 01/10/21	Sun 31/10/21	Fri 01/10/21	Sun 31/10/21	0 edays	166	168	
168	168	5.13.15.3	Acceptance of conforming tender	30 edays	Sun 31/10/21	Tue 30/11/21	Sun 31/10/21	Tue 30/11/21	31 edays	167	169FF	
169	169	5.13.15.4	Sub-contract work commencement date	0 days	Fri 31/12/21	Fri 31/12/21	Fri 31/12/21	Fri 31/12/21	0 days	168FF		
170	**170**	**5.13.16**	**General - Civil Construction Work for underground pipework (04SC005)**	**40 days**	**Wed 01/07/20**	**Mon 10/08/20**	**Wed 01/07/20**	**Mon 10/08...**	**0 days**			
171	171	5.13.16.1	Submission for acceptance of subcontract works package	14 days	Wed 01/07/20	Tue 14/07/20	Wed 01/07/20	Tue 14/07/20	0 days		172	
172	172	5.13.16.2	Invitation of tender for subcontract works	14 days	Wed 15/07/20	Tue 28/07/20	Wed 15/07/20	Tue 28/07/20	0 days	171	173	



Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

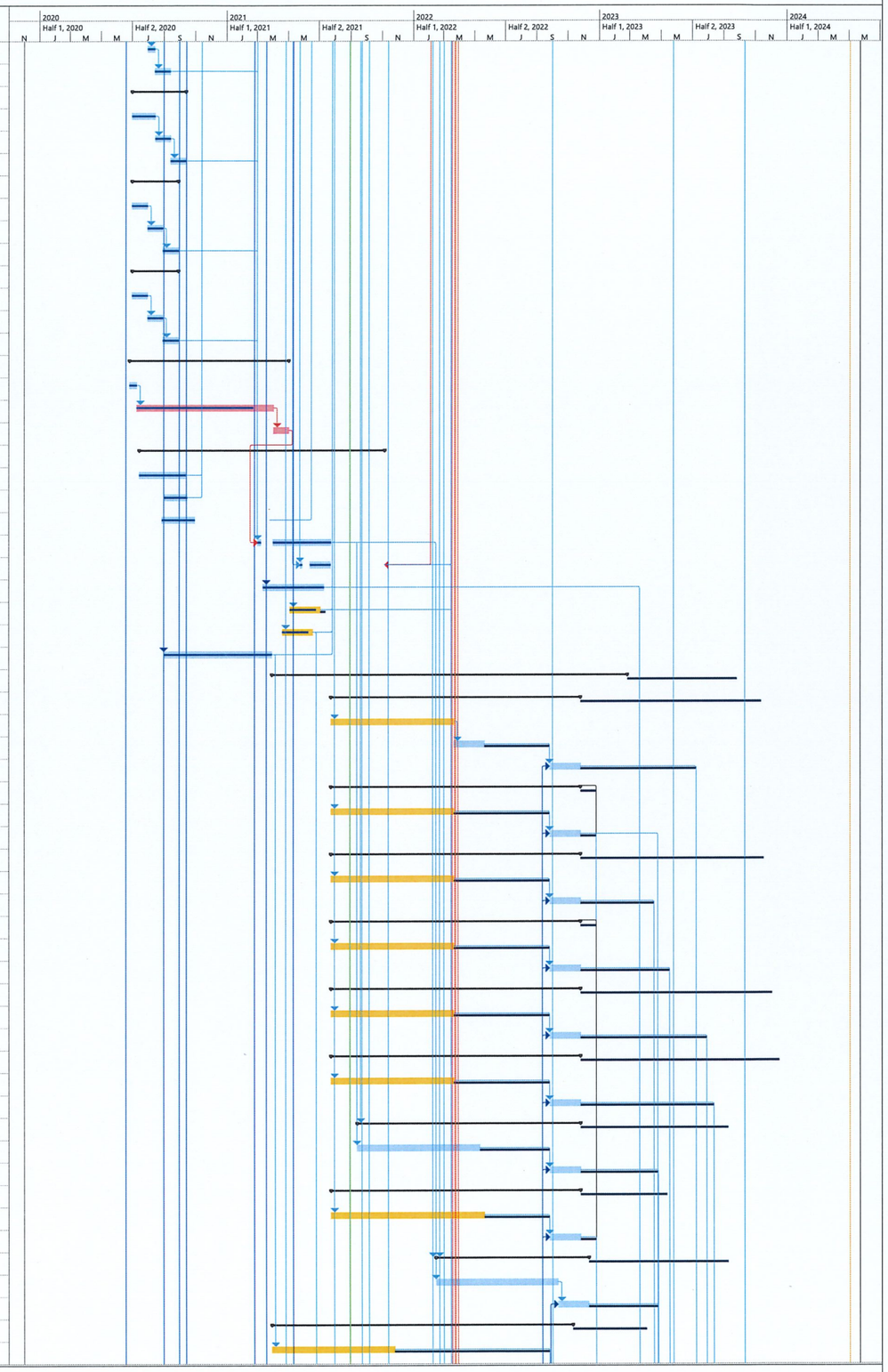
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
173	173	5.13.16.3	Acceptance of conforming tender	7 days	Wed 29/07/20	Tue 04/08/20	Wed 29/07/20	Tue 04/08/20	0 days	172	174FF	
174	174	5.13.16.4	Sub-contract work commencement date (Completed)	0 days	Mon 10/08/20	Mon 10/08/20	Mon 10/08/20	Mon 10/08/...	0 days	173FF		
175	**175**	**5.13.17**	**General - Civil Construction Work for Temp. Filtrate Eq. System (04SC00**	**40 days**	**Wed 01/07/20**	**Mon 10/08/20**	**Wed 01/07/20**	**Mon 10/08...**	**0 days**			
176	176	5.13.17.1	Submission for acceptance of subcontract works package	14 days	Wed 01/07/20	Tue 14/07/20	Wed 01/07/20	Tue 14/07/20	0 days		177	
177	177	5.13.17.2	Invitation of tender for subcontract works	14 days	Wed 15/07/20	Tue 28/07/20	Wed 15/07/20	Tue 28/07/20	0 days	176	178	
178	178	5.13.17.3	Acceptance of conforming tender	7 days	Wed 29/07/20	Tue 04/08/20	Wed 29/07/20	Tue 04/08/20	0 days	177	179FF	
179	179	5.13.17.4	Sub-contract work commencement date (Completed)	0 days	Mon 10/08/20	Mon 10/08/20	Mon 10/08/20	Mon 10/08/...	0 days	178FF		
180	**180**	**5.13.18**	**Mis - Modification of existing power house (04SC010)**	**109 days**	**Mon 24/02/20**	**Fri 12/06/20**	**Mon 24/02/20**	**Fri 12/06/20**	**0 days**			
181	181	5.13.18.1	Submission for acceptance of subcontract works package	90 days	Mon 24/02/20	Sat 23/05/20	Mon 24/02/20	Sat 23/05/20	0 days		182	
182	182	5.13.18.2	Invitation of tender for subcontract works	14 days	Sun 24/05/20	Sat 06/06/20	Sun 24/05/20	Sat 06/06/20	0 days	181	183	
183	183	5.13.18.3	Acceptance of conforming tender	1 day	Sun 07/06/20	Sun 07/06/20	Sun 07/06/20	Sun 07/06/20	0 days	182	184FF	
184	184	5.13.18.4	Sub-contract work commencement date (Completed)	0 days	Fri 12/06/20	Fri 12/06/20	Fri 12/06/20	Fri 12/06/20	0 days	183FF	1160	
185	**185**	**5.14**	**Part C: General Design Submissions**	**788 days**	**Mon 02/12/19**	**Thu 27/01/22**	**Mon 02/12/19**	**Thu 27/01/22**	**0 days**			
186	186	5.14.1	Planned Sectional Completion Date - Section 1	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	187FF,188FF		
187	187	5.14.2	CDS001 - General Design Parameters (Rev. 11)	400 edays	Fri 05/06/20	Sat 10/07/21	Fri 05/06/20	Sat 10/07/21	0 edays		186FF	
188	188	5.14.3	CDS020 - Electrical Installation Typical Details	355 edays	Mon 20/07/20	Sat 10/07/21	Mon 20/07/20	Sat 10/07/21	0 edays		186FF	
189	189	5.14.4	CDS009 - Detailed Design for Plant Service Water System	125 edays	Mon 01/03/21	Sun 04/07/21	Mon 01/03/21	Sun 04/07/21	0 edays		186FF	
190	190	5.14.5	CDS012 - Detailed Design for SCADA System	383.4 edays	Sat 09/01/21	Thu 27/01/22	Sat 09/01/21	Thu 27/01/22	0 edays	131	186FF,254FF,400FF,529FI	
191	191	5.14.6	CDS13-1 - Detailed Design for CCTV System	90 edays	Thu 01/04/21	Wed 30/06/21	Thu 01/04/21	Wed 30/06/...	12.38 edays		186FF	
192	192	5.14.7	CDS13-2 - Detailed Design for Gas Detection and Monitoring System	90 edays	Mon 01/03/21	Sun 30/05/21	Mon 01/03/21	Sun 30/05/21	43.38 edays		186FF	
193	193	5.14.8	CDS14-1 - Detailed Design for Power monitoring system (PMS)	90 edays	Mon 01/03/21	Sun 30/05/21	Mon 01/03/21	Sun 30/05/21	43.38 edays		186FF	
194	194	5.14.9	CDS14-2 - Detailed Design for Computerized maintenance and manageme	90 edays	Mon 01/03/21	Sun 30/05/21	Mon 01/03/21	Sun 30/05/21	43.38 edays		186FF	
195	195	5.14.10	CDS14-3 - Detailed Design for Information and documents management s	90 edays	Mon 01/03/21	Sun 30/05/21	Mon 01/03/21	Sun 30/05/21	43.38 edays		186FF	
196	196	5.14.11	CDS031 - Detailed Design for MVAC System	90 edays	Mon 01/03/21	Sun 30/05/21	Mon 01/03/21	Sun 30/05/21	43.38 edays		186FF	
197	197	5.14.12	CDS042 - Detailed Design for Lightning Protection System	120 edays	Mon 11/01/21	Tue 11/05/21	Mon 11/01/21	Tue 11/05/21	62.38 edays		186FF	
198	198	5.14.13	Design submissions for E&M installation works of existing sludge thickeni	300 edays	Mon 02/12/19	Sun 27/09/20	Mon 02/12/19	Sun 27/09/20	0 edays		186FF	
199	199	5.14.14	Design Submission for Earthing and Lightning (Rev. 8)	147.38 edays	Mon 04/01/21	Mon 31/05/21	Mon 04/01/21	Mon 31/05/...	42 edays		186FF	
200	**200**	**5.15**	**Works Area WA1-C**	**374 days**	**Wed 01/01/20**	**Fri 08/01/21**	**Wed 01/01/20**	**Fri 08/01/21**	**0 days**			
201	201	5.15.1	Actual Access / Handover Date	1 day	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	0 days		205	
202	202	5.15.2	Submission for acceptance of subcontract works package (Site Office) (04	60 days	Wed 01/01/20	Sat 29/02/20	Wed 01/01/20	Sat 29/02/20	0 days	2SS+30 eday	203	
203	203	5.15.3	Invitation of quotations for subcontract works (Site Office)	21 days	Sun 01/03/20	Sat 21/03/20	Sun 01/03/20	Sat 21/03/20	0 days	202	204	
204	204	5.15.4	Acceptance of conforming quotation (Site Office)	10 days	Sun 22/03/20	Tue 31/03/20	Sun 22/03/20	Tue 31/03/20	0 days	203	205	
205	205	5.15.5	Design and Fabrication of the Contractor's Site Accommodations	120 days	Wed 01/04/20	Wed 29/07/20	Wed 01/04/20	Wed 29/07/...	0 days	201,204	211	
206	206	5.15.6	Submission for acceptance of subcontract works package (Site Office Fou	20 days	Fri 01/05/20	Wed 20/05/20	Fri 01/05/20	Wed 20/05/...	0 days		207	
207	207	5.15.7	Invitation of quotations for subcontract works (Site Office Foundation)	18 days	Thu 21/05/20	Sun 07/06/20	Thu 21/05/20	Sun 07/06/20	0 days	206	208	
208	208	5.15.8	Acceptance of conforming quotation (Site foundation)	7 days	Mon 08/06/20	Sun 14/06/20	Mon 08/06/20	Sun 14/06/20	0 days	207	209	
209	209	5.15.9	Design and Construction of the Contractor's Site Office foundation	30 days	Mon 15/06/20	Tue 14/07/20	Mon 15/06/20	Tue 14/07/20	0 days	208	210	
210	210	5.15.10	Construction of Contractor's Site Office foundation (Completed)	47 days	Wed 15/07/20	Sun 30/08/20	Wed 15/07/20	Sun 30/08/20	0 days	209	211	
211	211	5.15.11	Site Installation of the Contractor's Site Accommodations (MiC) (Rev. 5)	120 days	Mon 31/08/20	Mon 28/12/20	Mon 31/08/20	Mon 28/12/...	0 days	205,210	212	
212	212	5.15.12	Anticipated date of working at site (Rev. 5) (Completed)	4 days	Tue 05/01/21	Fri 08/01/21	Tue 05/01/21	Fri 08/01/21	0 days	211		
213	**213**	**5.16**	**Works Area WA2-C**	**1 day**	**Fri 21/02/20**	**Fri 21/02/20**	**Fri 21/02/20**	**Fri 21/02/20**	**0 days**			
214	214	5.16.1	Actual Access / Handover Date	1 day	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	0 days			
215	**215**	**5.17**	**Inlet Works No. 1, Portion B-2 (PS 6B.2.1)**	**1400 days**	**Mon 01/06/20**	**Mon 01/04/24**	**Mon 01/06/20**	**Mon 01/04...**	**0 days**			
216	216	5.17.1	Planned Key Date Completion Date - KD1A, IW	0 days	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	0 days	250FF,251FI		
217	217	5.17.2	Planned Key Date Completion Date - KD1B, IW	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	252FF		
218	218	5.17.3	Planned Sectional Completion Date - Section 1, IW	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	253FF,254FI		
219	219	5.17.4	Planned Sectional Completion Date - Section 2, IW	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days			
220	**220**	**5.17.5**	**Selection of Suppliers for major plant and materials for Inlet Works No.**	**335 days**	**Mon 01/06/20**	**Sat 01/05/21**	**Mon 01/06/20**	**Sat 01/05/21**	**0 days**			
221	**221**	**5.17.5.1**	**Inlet Works - inlet Pumps (Marking Scheme Approach), C11, ref. EQT006**	**120 days**	**Mon 01/06/20**	**Mon 28/09/20**	**Mon 01/06/20**	**Mon 28/09/20**	**0 days**			
222	222	5.17.5.1.1	Submission for acceptance of purchasing package including proposed marking scheme	60 days	Mon 01/06/20	Thu 30/07/20	Mon 01/06/20	Thu 30/07/20	0 days		223	
223	223	5.17.5.1.2	Invitation of quotations for purchasing package	30 days	Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	0 days	222	224	
224	224	5.17.5.1.3	Acceptance of conforming quotation (Completed)	30 days	Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	0 days	223	253	
225	**225**	**5.17.5.2**	**Inlet Works - mechanical raked bar screens, C11, ref. EQT052**	**58 days**	**Fri 26/06/20**	**Sat 22/08/20**	**Fri 26/06/20**	**Sat 22/08/20**	**0 days**			
226	226	5.17.5.2.1	Submission for acceptance of purchasing package	14 days	Fri 26/06/20	Thu 09/07/20	Fri 26/06/20	Thu 09/07/20	0 days		227	
227	227	5.17.5.2.2	Invitation of quotations for purchasing package	14 days	Fri 10/07/20	Thu 23/07/20	Fri 10/07/20	Thu 23/07/20	0 days	226	228	
228	228	5.17.5.2.3	Acceptance of conforming quotation (Completed)	30 days	Fri 24/07/20	Sat 22/08/20	Fri 24/07/20	Sat 22/08/20	0 days	227	253	
229	**229**	**5.17.5.3**	**Inlet Works - screening conveyors and Diverters, C11, ref. EQT053**	**74 days**	**Wed 01/07/20**	**Sat 12/09/20**	**Wed 01/07/20**	**Sat 12/09/20**	**0 days**			
230	230	5.17.5.3.1	Submission for acceptance of purchasing package	30 days	Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	0 days		231	



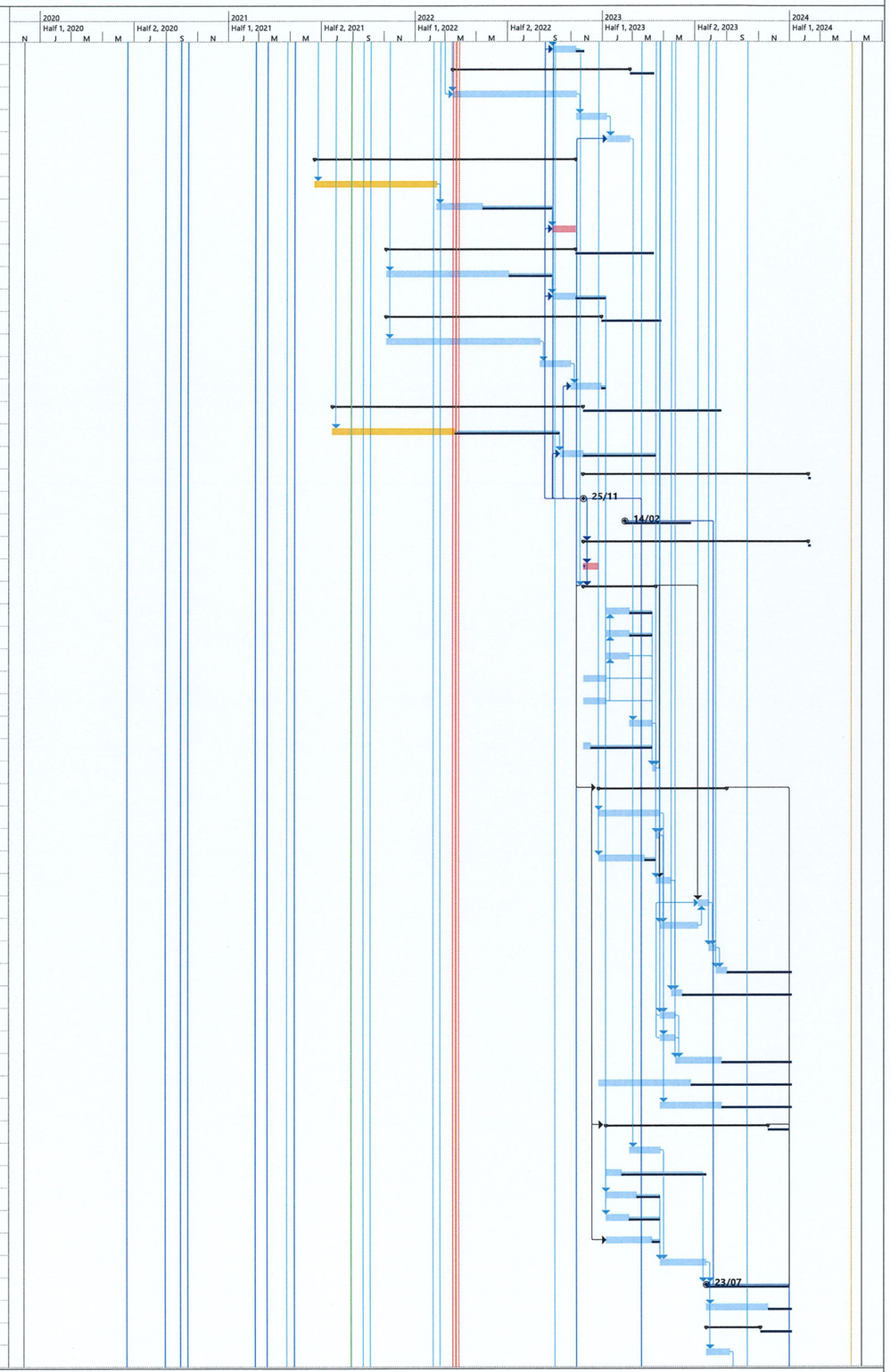
Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

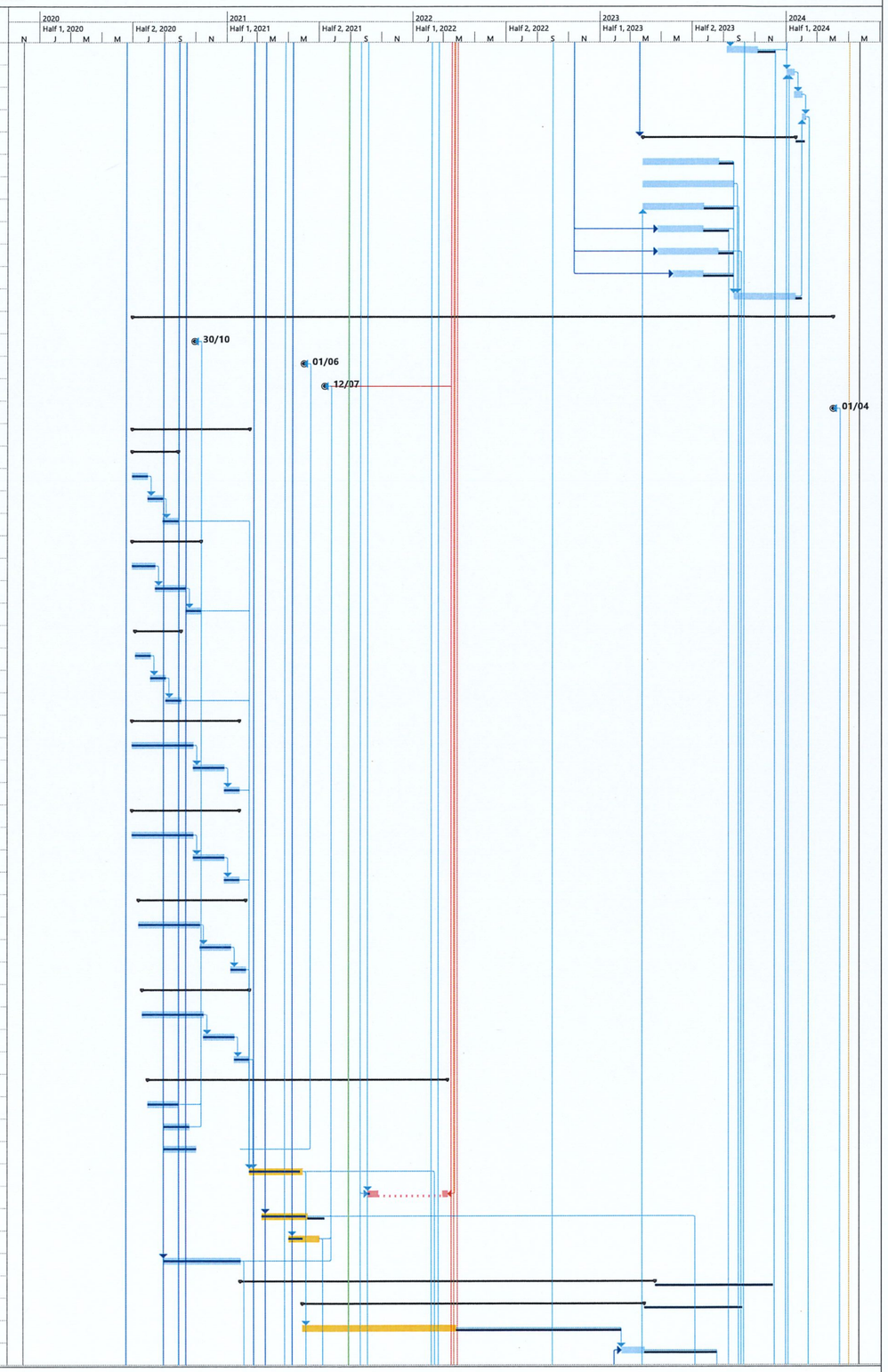
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
231	231	5.17.5.3.2	Invitation of quotations for purchasing package	14 days	Fri 31/07/20	Thu 13/08/20	Fri 31/07/20	Thu 13/08/20	0 days	230	232	
232	232	5.17.5.3.3	Acceptance of conforming quotation (Completed)	30 days	Fri 14/08/20	Sat 12/09/20	Fri 14/08/20	Sat 12/09/20	0 days	231	253	
233	**233**	**5.17.5.4**	**Inlet Works - screening screw type compactors, C11, ref. EQT003**	**105 days**	**Wed 01/07/20**	**Tue 13/10/20**	**Wed 01/07/20**	**Tue 13/10/20**	**0 days**			
234	234	5.17.5.4.1	Submission for acceptance of purchasing package	45 days	Wed 01/07/20	Fri 14/08/20	Wed 01/07/20	Fri 14/08/20	0 days		235	
235	235	5.17.5.4.2	Invitation of quotations for purchasing package	30 days	Sat 15/08/20	Sun 13/09/20	Sat 15/08/20	Sun 13/09/20	0 days	234	236	
236	236	5.17.5.4.3	Acceptance of conforming quotation (Completed)	30 days	Mon 14/09/20	Tue 13/10/20	Mon 14/09/20	Tue 13/10/20	0 days	235	253	
237	**237**	**5.17.5.5**	**Inlet Works - grit removal system, C11, ref. EQT004**	**90 days**	**Wed 01/07/20**	**Mon 28/09/20**	**Wed 01/07/20**	**Mon 28/09/20**	**0 days**			
238	238	5.17.5.5.1	Submission for acceptance of purchasing package	30 days	Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	0 days		239	
239	239	5.17.5.5.2	Invitation of quotations for purchasing package	30 days	Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	0 days	238	240	
240	240	5.17.5.5.3	Acceptance of conforming quotation (Completed)	30 days	Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	0 days	239	253	
241	**241**	**5.17.5.6**	**Inlet Works - grit classifiers, C11, ref. EQT005**	**90 days**	**Wed 01/07/20**	**Mon 28/09/20**	**Wed 01/07/20**	**Mon 28/09/20**	**0 days**			
242	242	5.17.5.6.1	Submission for acceptance of purchasing package	30 days	Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	0 days		243	
243	243	5.17.5.6.2	Invitation of quotations for purchasing package	30 days	Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	0 days	242	244	
244	244	5.17.5.6.3	Acceptance of conforming quotation (Completed)	30 days	Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	0 days	243	253	
245	**245**	**5.17.5.7**	**Inlet Works - Fixed Bar Screen, C11, ref. EQT046 (Rev. 10)**	**310 days**	**Fri 26/06/20**	**Sat 01/05/21**	**Fri 26/06/20**	**Sat 01/05/21**	**0 days**			
246	246	5.17.5.7.1	Submission for acceptance of purchasing package	14 days	Fri 26/06/20	Thu 09/07/20	Fri 26/06/20	Thu 09/07/20	0 days		247	
247	247	5.17.5.7.2	Invitation of quotations for purchasing package	266 days	Fri 10/07/20	Thu 01/04/21	Fri 10/07/20	Thu 01/04/21	0 days	246	248	
248	248	5.17.5.7.3	Acceptance of conforming quotation (Rev. 10)	30 days	Fri 02/04/21	Sat 01/05/21	Fri 02/04/21	Sat 01/05/21	0 days	247	253	
249	**249**	**5.17.6**	**Design Submissions for IW**	**479 days**	**Wed 15/07/20**	**Sat 06/11/21**	**Wed 15/07/20**	**Sat 06/11/21**	**0 days**			
250	250	5.17.6.1	Electrical schematic drawings for Inlet Works No. 1	90 days	Wed 15/07/20	Mon 12/10/20	Wed 15/07/20	Mon 12/10/...	0 days		216FF	
251	251	5.17.6.2	CDS080-1 - Civil and dimensional requirements drawings for Inlet Works No. 1	45 days	Tue 01/09/20	Thu 15/10/20	Tue 01/09/20	Thu 15/10/20	0 days		216FF	
252	252	5.17.6.3	CDS081-1 - Civil and dimensional requirements drawings for Inlet Work	210 days	Fri 28/08/20	Thu 25/03/21	Fri 28/08/20	Thu 25/03/21	0 days		217FF	
253	253	5.17.6.4	CDS002 - Detailed Design for Inlet Works No. 1	144 edays	Mon 01/03/21	Fri 23/07/21	Mon 01/03/21	Fri 23/07/21	0 edays	228,232,224	261,283,268,271,274,277	
254	254	5.17.6.5	CDS021 - Detailed Design for Electrical Installations for Inlet Works No.	166.63 edays	Sun 23/05/21	Sat 06/11/21	Sun 23/05/21	Sat 06/11/21	0 edays	75,81,85,89	76,300,292,303,218FF	
255	255	5.17.6.6	CDS034-1 - Detailed Design for Electrical Installations BS at Inlet Works	120 edays	Fri 12/03/21	Sat 10/07/21	Fri 12/03/21	Sat 10/07/21	0 edays	136	353,218FF	
256	256	5.17.6.7	CDS025-1 - Detailed Design for LV Switchboards for Inlet Works No. 1	60 edays	Mon 03/05/21	Fri 02/07/21	Mon 03/05/21	Fri 02/07/21	10 edays	71	292,218FF	
257	257	5.17.6.8	CDS026-1 - Detailed Design for HV Switchboards for Inlet Works No. 1	60 edays	Sun 18/04/21	Thu 17/06/21	Sun 18/04/21	Thu 17/06/21	0.63 edays	67	296,218FF	
258	258	5.17.6.9	CDS050-1 - Detailed Design for Lifting Appliances - Inlet Works No. 1	210 edays	Tue 01/09/20	Tue 30/03/21	Tue 01/09/20	Tue 30/03/21	0 edays	116	289,218FF	
259	**259**	**5.17.7**	**Manufacturing and Delivery of Plant & Materials**	**696 days**	**Tue 30/03/21**	**Thu 23/02/23**	**Tue 30/03/21**	**Thu 23/02/23**	**215 days**			
260	**260**	**5.17.7.1**	**Inlet Pumps, EQT006**	**489 days**	**Sat 24/07/21**	**Thu 24/11/22**	**Sat 24/07/21**	**Thu 24/11/22**	**352 days**			
261	261	5.17.7.1.1	Manufacturing of Inlet Pumps, EQT006	240 days	Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	0 days	253	262	
262	262	5.17.7.1.2	Factory Acceptance Test of Plant (to be witnessed by PM)	60 days	Mon 21/03/22	Thu 19/05/22	Mon 21/03/22	Thu 19/05/22	129 days	261	263	
263	263	5.17.7.1.3	Shipping and Delivery of Plant to site	60 days	Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/22	225 days	262,310SS-63	328	
264	**264**	**5.17.7.2**	**Mechanical Raked Bar Screen, EQT052**	**489 days**	**Sat 24/07/21**	**Thu 24/11/22**	**Sat 24/07/21**	**Thu 24/11/22**	**31 days**		**324**	
265	265	5.17.7.2.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	189 days	253	266	
266	266	5.17.7.2.2	Shipping and Delivery of Plant to site	60 days	Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/22	31 days	265,310SS-63	26,329	
267	**267**	**5.17.7.3**	**Screening Conveyors and Diverters, EQT053**	**489 days**	**Sat 24/07/21**	**Thu 24/11/22**	**Sat 24/07/21**	**Thu 24/11/22**	**357 days**			
268	268	5.17.7.3.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	189 days	253	269	
269	269	5.17.7.3.2	Shipping and Delivery of Plant to site	60 days	Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/22	143 days	268,310SS-63	327	
270	**270**	**5.17.7.4**	**Screening Screw Type Compactors, EQT003**	**489 days**	**Sat 24/07/21**	**Thu 24/11/22**	**Sat 24/07/21**	**Thu 24/11/22**	**31 days**		**324**	
271	271	5.17.7.4.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	189 days	253	272	
272	272	5.17.7.4.2	Shipping and Delivery of Plant to site	60 days	Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/22	173 days	271,310SS-63	332	
273	**273**	**5.17.7.5**	**Grit Removal System, EQT004**	**489 days**	**Sat 24/07/21**	**Thu 24/11/22**	**Sat 24/07/21**	**Thu 24/11/22**	**373 days**			
274	274	5.17.7.5.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	189 days	253	275	
275	275	5.17.7.5.2	Shipping and Delivery of Plant to site	60 days	Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/22	246 days	274,310SS-63	330	
276	**276**	**5.17.7.6**	**Grit Classifiers, EQT005**	**489 days**	**Sat 24/07/21**	**Thu 24/11/22**	**Sat 24/07/21**	**Thu 24/11/22**	**387 days**			
277	277	5.17.7.6.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	189 days	253	278	
278	278	5.17.7.6.2	Shipping and Delivery of Plant to site	60 days	Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/22	260 days	277,310SS-63	331	
279	**279**	**5.17.7.7**	**Pipework, EQT036 (Rev. 11)**	**438 days**	**Mon 13/09/21**	**Thu 24/11/22**	**Mon 13/09/21**	**Thu 24/11/22**	**288 days**	**56**		
280	280	5.17.7.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Mon 13/09/21	Tue 10/05/22	Mon 13/09/21	Tue 10/05/22	138 days	253	281	
281	281	5.17.7.7.2	Shipping and Delivery of Plant to site	60 days	Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/22	151 days	280,310SS-63	333	
282	**282**	**5.17.7.8**	**Stoplogs and Penstocks, EQT013**	**489 days**	**Sat 24/07/21**	**Thu 24/11/22**	**Sat 24/07/21**	**Thu 24/11/22**	**168 days**			
283	283	5.17.7.8.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Sat 24/07/21	Thu 19/05/22	Sat 24/07/21	Thu 19/05/22	129 days	253	284	
284	284	5.17.7.8.2	Shipping and Delivery of Plant to site	60 days	Mon 26/09/22	Thu 24/11/22	Mon 26/09/22	Thu 24/11/22	31 days	283,310SS-63	324	
285	**285**	**5.17.7.9**	**Valves and Actuators, EQT036, EQT042 (Rev. 11)**	**300 days**	**Mon 14/02/22**	**Sat 10/12/22**	**Mon 14/02/22**	**Sat 10/12/22**	**272 days**	**56,63**		
286	286	5.17.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Mon 14/02/22	Tue 11/10/22	Mon 14/02/22	Tue 11/10/22	0 days	253	287	
287	287	5.17.7.9.2	Shipping and Delivery of Plant to site	60 days	Wed 12/10/22	Sat 10/12/22	Wed 12/10/22	Sat 10/12/22	135 days	286,310SS-63	333	
288	**288**	**5.17.7.10**	**Lifting Appliances**	**590 days**	**Tue 30/03/21**	**Wed 09/11/22**	**Tue 30/03/21**	**Wed 09/11...**	**143 days**			
289	289	5.17.7.10.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Tue 30/03/21	Wed 24/11/21	Tue 30/03/21	Wed 24/11/...	305 days	258	290	



ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
290	290	5.17.7.10.2	Shipping and Delivery of Plant to site	45 days	Mon 26/09/22	Wed 09/11/22	Mon 26/09/22	Wed 09/11/...	16 days	289,310SS-6	314	
291	**291**	**5.17.7.11**	**LV Switchboards**	**345 days**	**Wed 16/03/22**	**Thu 23/02/23**	**Wed 16/03/22**	**Thu 23/02/23**	**47 days**			
292	292	5.17.7.11.1	IW - Manufacturing of Plant	240 days	Wed 16/03/22	Thu 10/11/22	Wed 16/03/22	Thu 10/11/22	0 days	254,256,775	293	
293	293	5.17.7.11.2	IW - Factory Acceptance Test of Plant (to be witnessed by PM)	60 days	Fri 11/11/22	Mon 09/01/23	Fri 11/11/22	Mon 09/01/...	0 days	292	294	
294	294	5.17.7.11.3	IW - Shipping and Delivery of Plant to site	45 days	Tue 10/01/23	Thu 23/02/23	Tue 10/01/23	Thu 23/02/23	0 days	310SS-60 ed	339	
295	**295**	**5.17.7.12**	**HV Switchboards, EQT031**	**510 days**	**Fri 18/06/21**	**Wed 09/11/22**	**Fri 18/06/21**	**Wed 09/11...**	**0 days**			
296	296	5.17.7.12.1	IW - Manufacturing of Plant	240 days	Fri 18/06/21	Sat 12/02/22	Fri 18/06/21	Sat 12/02/22	0 days	257	297	
297	297	5.17.7.12.2	IW - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days	Sun 13/02/22	Fri 13/05/22	Sun 13/02/22	Fri 13/05/22	135 days	296	298	
298	298	5.17.7.12.3	IW - Shipping and Delivery of Plant to site	45 days	Mon 26/09/22	Wed 09/11/22	Mon 26/09/22	Wed 09/11/...	0 days	297,310SS-6		
299	**299**	**5.17.7.13**	**11kV/380V Stepdown Power Transformers, EQT032**	**369 days**	**Sat 06/11/21**	**Wed 09/11/22**	**Sat 06/11/21**	**Wed 09/11...**	**153 days**			
300	300	5.17.7.13.1	IW - Manufacturing and Factory Acceptance Test of Plant	240 days	Sat 06/11/21	Sun 03/07/22	Sat 06/11/21	Sun 03/07/22	84 days	254	301	
301	301	5.17.7.13.2	IW - Shipping and Delivery of Plant to site	45 days	Mon 26/09/22	Wed 09/11/22	Mon 26/09/22	Wed 09/11/...	60 days	300,310SS-6	341	
302	**302**	**5.17.7.14**	**PLC System**	**420 days**	**Sat 06/11/21**	**Fri 30/12/22**	**Sat 06/11/21**	**Fri 30/12/22**	**117 days**			
303	303	5.17.7.14.1	Manufacturing of Plant, PLC for IW	300 days	Sat 06/11/21	Thu 01/09/22	Sat 06/11/21	Thu 01/09/22	0 days	254	304	
304	304	5.17.7.14.2	Factory Acceptance Test of Plant, PLC for IW (To be witnessed by PM	60 days	Fri 02/09/22	Mon 31/10/22	Fri 02/09/22	Mon 31/10/...	0 days	303	305	
305	305	5.17.7.14.3	Shipping and Delivery of Plant to site	60 days	Tue 01/11/22	Fri 30/12/22	Tue 01/11/22	Fri 30/12/22	9 days	310SS-60 ed	342	
306	**306**	**5.17.7.15**	**Fixed Bar Screen, EQT046**	**489 days**	**Sat 24/07/21**	**Thu 24/11/22**	**Sat 24/07/21**	**Thu 24/11/22**	**270 days**			
307	307	5.17.7.15.1	IW - Manufacturing and Factory Acceptance Test of Plant	240 days	Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	204 days	253	308	
308	308	5.17.7.15.2	IW - Shipping and Delivery of Plant to site	45 days	Tue 11/10/22	Thu 24/11/22	Tue 11/10/22	Thu 24/11/22	143 days	307,310SS-4	325	
309	**309**	**5.17.8**	**Site Installation Work**	**440 days**	**Fri 25/11/22**	**Wed 07/02/24**	**Fri 25/11/22**	**Wed 07/02...**	**5 days**			
310	310	5.17.8.1	Tentative Civil Handover Date, Portion B-2, Inlet Works No. 1 (Rev. 5)	1 day	Fri 25/11/22	Fri 25/11/22	Fri 25/11/22	Fri 25/11/22	0 days		314,312,353FS+120 days,	
311	311	5.17.8.2	Tentative Civil Handover Date, HV cables draw pits from MFB2 to IW	1 day	Tue 14/02/23	Tue 14/02/23	Tue 14/02/23	Tue 14/02/23	129 days		345FF+30 days	
312	**312**	**5.17.8.3**	**Commencement of E&M Installation at Inlet Works No. 1**	**439 days**	**Sat 26/11/22**	**Wed 07/02/24**	**Sat 26/11/22**	**Wed 07/02...**	**5 days**	**310**		
313	313	5.17.8.3.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, W	30 days	Sat 26/11/22	Sun 25/12/22	Sat 26/11/22	Sun 25/12/22	0 days	310		
314	**314**	**5.17.8.3.2**	**Installation of Lifting Appliances at Inlet Works No. 1**	**142 days**	**Sat 26/11/22**	**Sun 16/04/23**	**Sat 26/11/22**	**Sun 16/04/23**	**0 days**	**310,290**	**323SS+30 days,327,328**	
315	315	5.17.8.3.2.1	1/F EOT Crane LA-01-01 SWL 5t	45 days	Tue 10/01/23	Thu 23/02/23	Tue 10/01/23	Thu 23/02/23	45 days	318,319	322	LA - A x 4~6 men
316	316	5.17.8.3.2.2	1/F EOT Crane LA-01-02 SWL 5t	45 days	Tue 10/01/23	Thu 23/02/23	Tue 10/01/23	Thu 23/02/23	45 days	318,319	322	LA - B x 4~6 men
317	317	5.17.8.3.2.3	1/F EOT Crane LA-01-03 SWL 5t	45 days	Tue 10/01/23	Thu 23/02/23	Tue 10/01/23	Thu 23/02/23	0 days	318,319	320,322	LA - C x 4~6 men
318	318	5.17.8.3.2.4	UG EOT Crane LA-01-04 SWL 10t	45 days	Sat 26/11/22	Mon 09/01/23	Sat 26/11/22	Mon 09/01/...	0 days		315,316,317,322	LA - A x 4~6 men
319	319	5.17.8.3.2.5	UG EOT Crane LA-01-05 SWL 10t	45 days	Sat 26/11/22	Mon 09/01/23	Sat 26/11/22	Mon 09/01/...	0 days		315,316,317,322	LA - B x 4~6 men
320	320	5.17.8.3.2.6	1/F Retractable Crane LA-01-06 SWL 10t	45 days	Fri 24/02/23	Sun 09/04/23	Fri 24/02/23	Sun 09/04/23	0 days	317	322	LA - C x 4~6 men
321	321	5.17.8.3.2.7	Submission of T&C Plan and Procedures of LA for acceptance	14 days	Sat 26/11/22	Fri 09/12/22	Sat 26/11/22	Fri 09/12/22	121 days		322	
322	322	5.17.8.3.2.8	T&C, Loading Test for Lifting Appliances	7 days	Mon 10/04/23	Sun 16/04/23	Mon 10/04/23	Sun 16/04/23	0 days	315,316,317	325	LA - B x 4~6 men
323	**323**	**5.17.8.3.3**	**Mechanical Installations for Inlet Works No. 1**	**250 days**	**Mon 26/12/22**	**Fri 01/09/23**	**Mon 26/12/22**	**Fri 01/09/23**	**0 days**	**314SS+30 d**	**338SS+14 days,350,343S**	
324	324	5.17.8.3.3.1	Installation of penstocks and stoplogs (Penstock 35nos, Stoplogs 3	120 days	Mon 26/12/22	Mon 24/04/23	Mon 26/12/22	Mon 24/04/...	0 days	270,264,284	333,334,337	ME - E x 4~6 men
325	325	5.17.8.3.3.2	Installation of fixed bar screen (x1), EQT046	7 days	Mon 17/04/23	Sun 23/04/23	Mon 17/04/23	Sun 23/04/23	0 days	322,308	329	ME - D x 2~4 men
326	326	5.17.8.3.3.3	Installation of mechanical raked coarse bar screens (x4), EQT052	90 days	Mon 26/12/22	Sat 25/03/23	Mon 26/12/22	Sat 25/03/23	22 days	266	327	ME - A x 4~6 men
327	327	5.17.8.3.3.4	Installation of screening conveyors (x6), EQT053	30 days	Mon 17/04/23	Tue 16/05/23	Mon 17/04/23	Tue 16/05/23	0 days	314,326,265	332	ME - A x 4~6 men
328	328	5.17.8.3.3.5	Installation of inlet pumps (x5), EQT006	21 days	Sat 08/07/23	Fri 28/07/23	Sat 08/07/23	Fri 28/07/23	0 days	314,333SS+	330	ME - B x 4~6 men
329	329	5.17.8.3.3.6	Installation of mechanical raked fine bar screens (x4), EQT052	75 days	Mon 24/04/23	Fri 07/07/23	Mon 24/04/23	Fri 07/07/23	0 days	325,266	328	ME - B x 4~6 men
330	330	5.17.8.3.3.7	Installation of grit removal system (x3), EQT004	14 days	Sat 29/07/23	Fri 11/08/23	Sat 29/07/23	Fri 11/08/23	0 days	328,275	331	ME - B x 4~6 men
331	331	5.17.8.3.3.8	Installation of grit classifiers (x2), EQT005	21 days	Sat 12/08/23	Fri 01/09/23	Sat 12/08/23	Fri 01/09/23	127 days	330,278		ME - B x 4~6 men
332	332	5.17.8.3.3.9	Installation of compactors (x2), EQT003	21 days	Wed 17/05/23	Tue 06/06/23	Wed 17/05/23	Tue 06/06/23	214 days	327,272		ME - A x 4~6 men
333	333	5.17.8.3.3.10	Installation of pipework and valves, EQT036	30 days	Tue 25/04/23	Wed 24/05/23	Tue 25/04/23	Wed 24/05/...	0 days	324,281,287	328SS+14 days,335	ME - D x 2~4 men
334	334	5.17.8.3.3.11	Pipework pressure tests	30 days	Tue 25/04/23	Wed 24/05/23	Tue 25/04/23	Wed 24/05/...	0 days	324	328SS+14 days,335	ME - D x 2~4 men
335	335	5.17.8.3.3.12	Installation of instrumentations, EQT035-1	90 days	Thu 25/05/23	Tue 22/08/23	Thu 25/05/23	Tue 22/08/23	137 days	333,334,52		ME - A x 4~6 men
336	336	5.17.8.3.3.13	Installation of Platforms, Covers etc, EQT050	180 days	Mon 26/12/22	Fri 23/06/23	Mon 26/12/22	Fri 23/06/23	197 days			ME - D x 2~4 men
337	337	5.17.8.3.3.14	Site Acceptance Tests - mechanical aspects including alignment an	120 days	Tue 25/04/23	Tue 22/08/23	Tue 25/04/23	Tue 22/08/23	137 days	324		ME - D x 2~4 men
338	**338**	**5.17.8.3.4**	**Electrical Installations for Inlet Works No. 1**	**316 days**	**Mon 09/01/23**	**Mon 20/11/23**	**Mon 09/01/23**	**Mon 20/11...**	**42 days**	**323SS+14 d**	**350**	
339	339	5.17.8.3.4.1	Installation of LV Switchboards, IW	60 days	Fri 24/02/23	Mon 24/04/23	Fri 24/02/23	Mon 24/04/...	0 days	294	344	LV - A x 4~6 men
340	340	5.17.8.3.4.2	Modification of HV Switchboards, MFB No. 1 (Rev. 8)	30 days	Mon 09/01/23	Tue 07/02/23	Mon 09/01/23	Tue 07/02/23	166 days		345	LV - A x 4~6 men
341	341	5.17.8.3.4.3	Installation of Transformer, IW, EQT032	60 days	Mon 09/01/23	Thu 09/03/23	Mon 09/01/23	Thu 09/03/23	46 days	301	344	EE - A x 4~6 men
342	342	5.17.8.3.4.4	Installation of PLC Panels, IW	45 days	Mon 09/01/23	Wed 22/02/23	Mon 09/01/23	Wed 22/02/...	61 days	305	344	EE - B x 4~6 men
343	343	5.17.8.3.4.5	Installation of cable trays and cable containments	90 days	Mon 09/01/23	Sat 08/04/23	Mon 09/01/23	Sat 08/04/23	16 days	323SS	344	EE - C x 4~6 men
344	344	5.17.8.3.4.6	Cables laying and terminations	90 days	Tue 25/04/23	Sun 23/07/23	Tue 25/04/23	Sun 23/07/23	0 days	339,341,342	345,348,346	EE - C x 4~6 men
345	345	5.17.8.3.4.7	Energisation of LV Switchboards, IW	0 days	Sun 23/07/23	Sun 23/07/23	Sun 23/07/23	Sun 23/07/23	162 days	344,311FF+	350	LV - A x 4~6 men
346	346	5.17.8.3.4.8	Site Acceptance Tests - Electrical aspects including voltage and cur	120 days	Mon 24/07/23	Mon 20/11/23	Mon 24/07/23	Mon 20/11/...	47 days	344		LV - A x 4~6 men
347	**347**	**5.17.8.3.5**	**SCADA Systems, Inlet Works**	**105 days**	**Mon 24/07/23**	**Sun 05/11/23**	**Mon 24/07/23**	**Sun 05/11/23**	**62 days**			
348	348	5.17.8.3.5.1	Configuration of PLC System, IW	45 days	Mon 24/07/23	Wed 06/09/23	Mon 24/07/23	Wed 06/09/...	0 days	344	349	PLC - A x 1 man



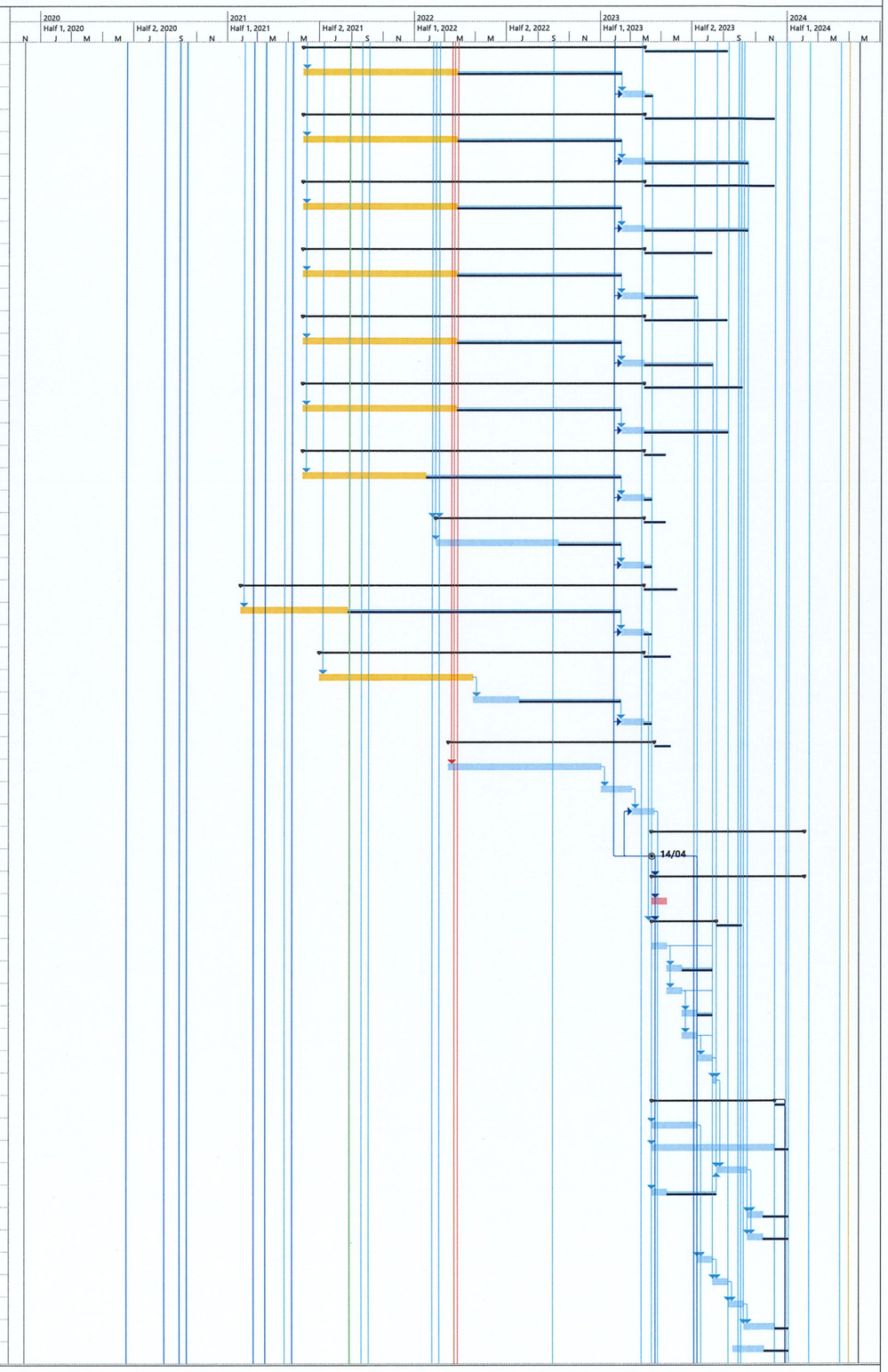
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
349	349	5.17.8.3.5.2	Site Acceptance Test for PLC System at Inlet Works No. 1	60 days	Thu 07/09/23	Sun 05/11/23	Thu 07/09/23	Sun 05/11/23	35 days	348	350,1275	
350	350	5.17.8.3.6	Site Acceptance Test for E&M Equip & Instrumentations calibration,	15 days	Tue 02/01/24	Tue 16/01/24	Tue 02/01/24	Tue 16/01/24	0 days	323,338,345	351	
351	351	5.17.8.3.7	System Commissioning for E&M Equip at Inlet Works No. 1	15 edays	Tue 16/01/24	Wed 31/01/24	Tue 16/01/24	Wed 31/01/...	0 edays	350	352	
352	352	5.17.8.3.8	Risk Allowances for completion of Processing Plant at Inlet Works No	7 edays	Wed 31/01/24	Wed 07/02/24	Wed 31/01/24	Wed 07/02/...	0.63 edays	351,360	1271	
353	**353**	**5.17.8.3.9**	**Building Services Installations for Inlet Works No. 1**	**300 days**	**Sun 26/03/23**	**Fri 19/01/24**	**Sun 26/03/23**	**Fri 19/01/24**	**17 days**	**310FS+120 d**		
354	354	5.17.8.3.9.1	Mechanical Ventilation and Air Conditioning System, IW	150 days	Sun 26/03/23	Tue 22/08/23	Sun 26/03/23	Tue 22/08/23	30 days		360	MVAC - B x 4~6 men
355	355	5.17.8.3.9.2	Lighting and Power Distribution System, IW	180 days	Sun 26/03/23	Thu 21/09/23	Sun 26/03/23	Thu 21/09/23	0 days		360	BS - A x 4~6 men
356	356	5.17.8.3.9.3	Plumbing Installation, IW	120 days	Sun 26/03/23	Sun 23/07/23	Sun 26/03/23	Sun 23/07/23	60 days	1242	1244,360	Pb - A x 4~6 men
357	357	5.17.8.3.9.4	CCTV Installation (5 indoor +5 outdoor Cameras), IW	90 days	Mon 24/04/23	Sat 22/07/23	Mon 24/04/23	Sat 22/07/23	51 days	310SS+150 d	360,1274	BS - B x 4~6 men
358	358	5.17.8.3.9.5	Fire Services Installation, IW	120 days	Mon 24/04/23	Mon 21/08/23	Mon 24/04/23	Mon 21/08/...	31 days	310SS+150 d	1195,1207,1208,360	FS - A x 4~6 men
359	359	5.17.8.3.9.6	Earthing and Lightning Protection System, IW	60 days	Wed 24/05/23	Sat 22/07/23	Wed 24/05/23	Sat 22/07/23	61 days	310SS+180 d	360	BS - C x 2~4 men
360	360	5.17.8.3.9.7	Testing and Commissioning of Building Services Installations, IW	120 days	Fri 22/09/23	Fri 19/01/24	Fri 22/09/23	Fri 19/01/24	12 days	354,355,356	352	BS - C x 2~4 men
361	**361**	**5.18**	**Primary Sedimentation Tanks No. 1 ~ 4, Portion B-3 (PS 6B2.2)**	**1371 days**	**Wed 01/07/20**	**Mon 01/04/24**	**Wed 01/07/20**	**Mon 01/04...**	**0 days**			
362	362	5.18.1	Planned Key Date Completion Date - KD1A, PST No. 1~4	0 days	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	0 days	396FF,397FF		
363	363	5.18.2	Planned Key Date Completion Date - KD1B, PST No. 1~4	1 day	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	398FF		
364	364	5.18.3	Planned Sectional Completion Date - Section 1, PST No. 1~4	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	401FF,400FF		
365	365	5.18.4	Planned Sectional Completion Date - Section 2, PST No. 1~4	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days	489FF		
366	**366**	**5.18.5**	**Selection of Suppliers for major plant and materials for PST No. 1~4**	**230 days**	**Wed 01/07/20**	**Mon 15/02/21**	**Wed 01/07/20**	**Mon 15/02...**	**0 days**			
367	**367**	**5.18.5.1**	**PST - lamella plate settlers, C11, ref. EQT014**	**90 days**	**Wed 01/07/20**	**Mon 28/09/20**	**Wed 01/07/20**	**Mon 28/09/20**	**0 days**			
368	368	5.18.5.1.1	Submission for acceptance of purchasing package	30 days	Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	0 days		369	
369	369	5.18.5.1.2	Invitation of quotations for purchasing package	30 days	Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	0 days	368	370	
370	370	5.18.5.1.3	Acceptance of conforming quotation (Completed)	30 days	Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	0 days	369	399	
371	**371**	**5.18.5.2**	**PST - reciprocating type bottom scrapers, C11, ref. EQT014**	**135 days**	**Wed 01/07/20**	**Thu 12/11/20**	**Wed 01/07/20**	**Thu 12/11/20**	**0 days**			
372	372	5.18.5.2.1	Submission for acceptance of purchasing package	45 days	Wed 01/07/20	Fri 14/08/20	Wed 01/07/20	Fri 14/08/20	0 days		373	
373	373	5.18.5.2.2	Invitation of quotations for purchasing package	60 days	Sat 15/08/20	Tue 13/10/20	Sat 15/08/20	Tue 13/10/20	0 days	372	374	
374	374	5.18.5.2.3	Acceptance of conforming quotation (Completed)	30 days	Wed 14/10/20	Thu 12/11/20	Wed 14/10/20	Thu 12/11/20	0 days	373	399	
375	**375**	**5.18.5.3**	**PST - surface scum skimmers, C11, ref. EQT015**	**90 days**	**Tue 07/07/20**	**Sun 04/10/20**	**Tue 07/07/20**	**Sun 04/10/20**	**0 days**			
376	376	5.18.5.3.1	Submission for acceptance of purchasing package	30 days	Tue 07/07/20	Wed 05/08/20	Tue 07/07/20	Wed 05/08/20	0 days		377	
377	377	5.18.5.3.2	Invitation of quotations for purchasing package	30 days	Thu 06/08/20	Fri 04/09/20	Thu 06/08/20	Fri 04/09/20	0 days	376	378	
378	378	5.18.5.3.3	Acceptance of conforming quotation	30 days	Sat 05/09/20	Sun 04/10/20	Sat 05/09/20	Sun 04/10/20	0 days	377	399	
379	**379**	**5.18.5.4**	**PST - scum collector pipes, C11, ref. EQT015**	**210 days**	**Wed 01/07/20**	**Tue 26/01/21**	**Wed 01/07/20**	**Tue 26/01/21**	**0 days**			
380	380	5.18.5.4.1	Submission for acceptance of purchasing package	120 days	Wed 01/07/20	Wed 28/10/20	Wed 01/07/20	Wed 28/10/20	0 days		381	
381	381	5.18.5.4.2	Invitation of quotations for purchasing package	60 days	Thu 29/10/20	Sun 27/12/20	Thu 29/10/20	Sun 27/12/20	0 days	380	382	
382	382	5.18.5.4.3	Acceptance of conforming quotation	30 days	Mon 28/12/20	Tue 26/01/21	Mon 28/12/20	Tue 26/01/21	0 days	381	399	
383	**383**	**5.18.5.5**	**PST - piston type primary sludge pumps, C11, ref. EQT016**	**210 days**	**Wed 01/07/20**	**Tue 26/01/21**	**Wed 01/07/20**	**Tue 26/01/21**	**0 days**			
384	384	5.18.5.5.1	Submission for acceptance of purchasing package	120 days	Wed 01/07/20	Wed 28/10/20	Wed 01/07/20	Wed 28/10/20	0 days		385	
385	385	5.18.5.5.2	Invitation of quotations for purchasing package	60 days	Thu 29/10/20	Sun 27/12/20	Thu 29/10/20	Sun 27/12/20	0 days	384	386	
386	386	5.18.5.5.3	Acceptance of conforming quotation (Completed)	30 days	Mon 28/12/20	Tue 26/01/21	Mon 28/12/20	Tue 26/01/21	0 days	385	399	
387	**387**	**5.18.5.6**	**PST - drain pumps, C11, ref. EQT007**	**210 days**	**Tue 14/07/20**	**Mon 08/02/21**	**Tue 14/07/20**	**Mon 08/02/21**	**0 days**			
388	388	5.18.5.6.1	Submission for acceptance of purchasing package	120 days	Tue 14/07/20	Tue 10/11/20	Tue 14/07/20	Tue 10/11/20	0 days		389	
389	389	5.18.5.6.2	Invitation of quotations for purchasing package	60 days	Wed 11/11/20	Sat 09/01/21	Wed 11/11/20	Sat 09/01/21	0 days	388	390	
390	390	5.18.5.6.3	Acceptance of conforming quotation (Completed)	30 days	Sun 10/01/21	Mon 08/02/21	Sun 10/01/21	Mon 08/02/21	0 days	389	399	
391	**391**	**5.18.5.7**	**PST - air blowers, C11, ref. EQT018**	**210 days**	**Tue 21/07/20**	**Mon 15/02/21**	**Tue 21/07/20**	**Mon 15/02/21**	**0 days**			
392	392	5.18.5.7.1	Submission for acceptance of purchasing package	120 days	Tue 21/07/20	Tue 17/11/20	Tue 21/07/20	Tue 17/11/20	0 days		393	
393	393	5.18.5.7.2	Invitation of quotations for purchasing package	60 days	Wed 18/11/20	Sat 16/01/21	Wed 18/11/20	Sat 16/01/21	0 days	392	394	
394	394	5.18.5.7.3	Acceptance of conforming quotation	30 days	Sun 17/01/21	Mon 15/02/21	Sun 17/01/21	Mon 15/02/21	0 days	393	399	
395	**395**	**5.18.6**	**Design Submissions for PST No. 1~ 4**	**587 days**	**Sat 01/08/20**	**Fri 11/03/22**	**Sat 01/08/20**	**Fri 11/03/22**	**0 days**			
396	396	5.18.6.1	Electrical schematic drawings for PST No. 1 ~4	60 days	Sat 01/08/20	Tue 29/09/20	Sat 01/08/20	Tue 29/09/20	0 days		362FF	
397	397	5.18.6.2	CDS080-2 - Civil and dimensional requirements drawings for PST No. 1~4 up to	50 days	Tue 01/09/20	Tue 20/10/20	Tue 01/09/20	Tue 20/10/20	0 days		362FF	
398	398	5.18.6.3	CDS081-2 - Civil and dimensional requirements drawings for PST No. 1 '	150 days	Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	0 days		363FF	
399	399	5.18.6.4	CDS003 - Detailed Design for Primary Sedimentation Tanks No. 1~4	104 edays	Mon 15/02/21	Sun 30/05/21	Mon 15/02/21	Sun 30/05/21	0.63 edays	370,374,378	406,409,412,415,418,421	
400	400	5.18.6.5	CDS022 - Detailed Design for Electrical Installations for PST No. 1~4	154.88 edays	Thu 07/10/21	Fri 11/03/22	Thu 07/10/21	Fri 11/03/22	0 edays	75,85,93,19	76,440,364FF	
401	401	5.18.6.6	CDS034-2 - Detailed Design for Electrical Installations BS at PST No. 1~4	90 edays	Fri 12/03/21	Thu 10/06/21	Fri 12/03/21	Thu 10/06/21	32.38 edays	136	482,364FF	
402	402	5.18.6.7	CDS025-2 - Detailed Design for LV Switchboards for PST No. 1~4	60 edays	Mon 03/05/21	Fri 02/07/21	Mon 03/05/21	Fri 02/07/21	0.63 edays	71	436,364FF	
403	403	5.18.6.8	CDS050-2 - Detailed Design for Lifting Appliances - PST No. 1 ~ 4	150 edays	Tue 01/09/20	Fri 29/01/21	Tue 01/09/20	Fri 29/01/21	0 edays	116	433,364FF	
404	**404**	**5.18.7**	**Manufacturing and Delivery of Plant & Materials**	**811 days**	**Fri 29/01/21**	**Wed 19/04/23**	**Fri 29/01/21**	**Wed 19/04...**	**232 days**			
405	**405**	**5.18.7.1**	**Lamella Plate Settlers, EQT014**	**668 days**	**Mon 31/05/21**	**Wed 29/03/23**	**Mon 31/05/21**	**Wed 29/03...**	**193 days**			
406	406	5.18.7.1.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	323 days	399	407	
407	407	5.18.7.1.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	143 days	406,444SS-6	458	



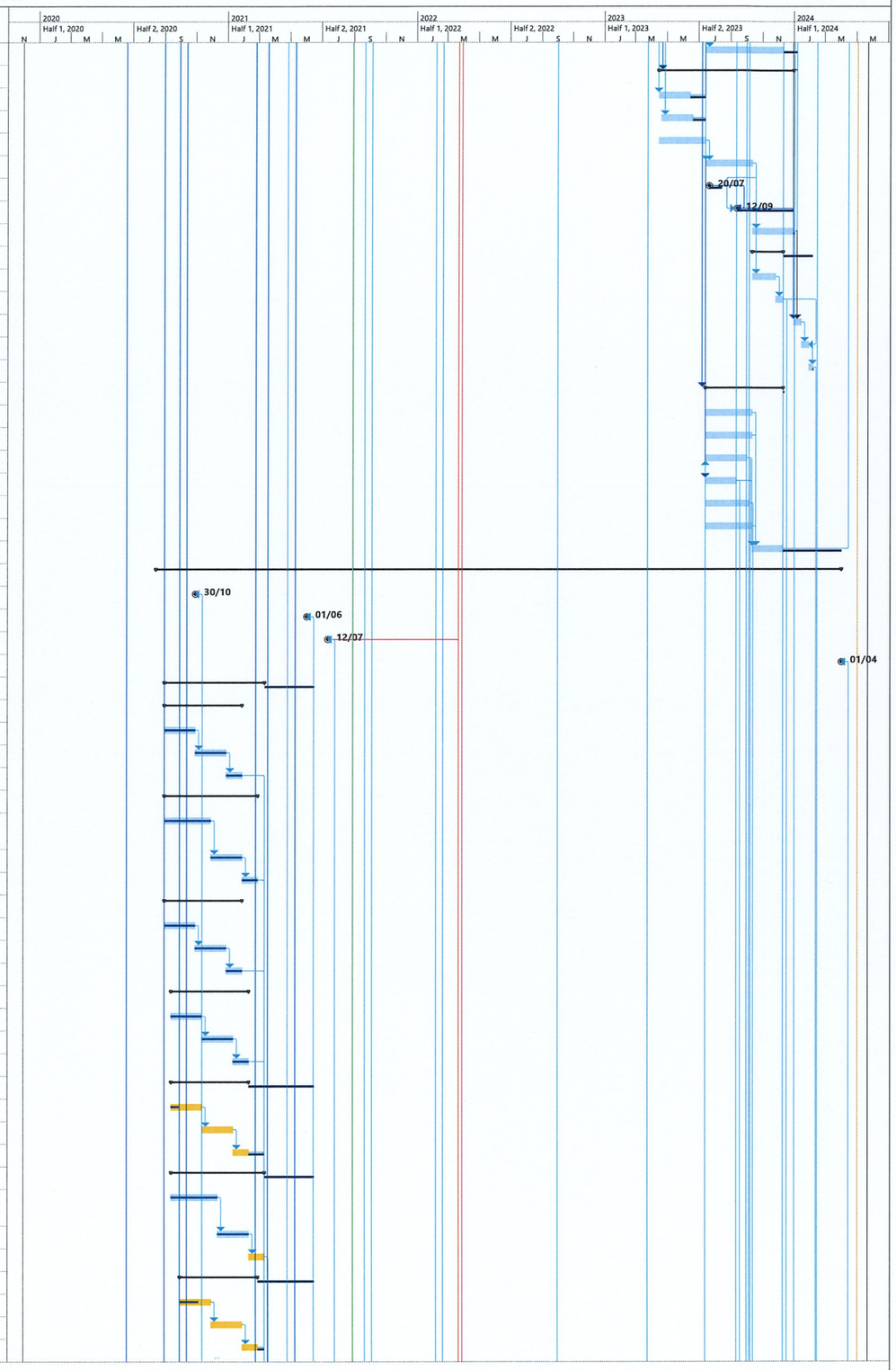
Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
408	**408**	**5.18.7.2**	**Reciprocating Type Bottom Scrappers, EQT014**	**668 days**	**Mon 31/05/21**	**Wed 29/03/23**	**Mon 31/05/21**	**Wed 29/03...**	**163 days**			
409	409	5.18.7.2.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	323 days	399	410	
410	410	5.18.7.2.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	16 days	409,444SS-6	459	
411	**411**	**5.18.7.3**	**Surface Scum Skimmers, EQT015**	**668 days**	**Mon 31/05/21**	**Wed 29/03/23**	**Mon 31/05/21**	**Wed 29/03...**	**253 days**			
412	412	5.18.7.3.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	323 days	399	413	
413	413	5.18.7.3.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	203 days	412,444SS-6	460	
414	**414**	**5.18.7.4**	**Surface Scum Collection Pipes, EQT015**	**668 days**	**Mon 31/05/21**	**Wed 29/03/23**	**Mon 31/05/21**	**Wed 29/03...**	**253 days**			
415	415	5.18.7.4.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	323 days	399	416	
416	416	5.18.7.4.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	203 days	415,444SS-6	461	
417	**417**	**5.18.7.5**	**Piston Type Primary Sludge Pumps, EQT016**	**668 days**	**Mon 31/05/21**	**Wed 29/03/23**	**Mon 31/05/21**	**Wed 29/03...**	**133 days**			
418	418	5.18.7.5.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	323 days	399	419	
419	419	5.18.7.5.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	106 days	418,444SS-6	462	
420	**420**	**5.18.7.6**	**Drain Pumps, EQT007**	**668 days**	**Mon 31/05/21**	**Wed 29/03/23**	**Mon 31/05/21**	**Wed 29/03...**	**163 days**			
421	421	5.18.7.6.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	323 days	399	422	
422	422	5.18.7.6.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	136 days	421,444SS-6	463	
423	**423**	**5.18.7.7**	**Air Blower, EQT018**	**668 days**	**Mon 31/05/21**	**Wed 29/03/23**	**Mon 31/05/21**	**Wed 29/03...**	**193 days**			
424	424	5.18.7.7.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	323 days	399	425	
425	425	5.18.7.7.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	166 days	424,444SS-6	464	
426	**426**	**5.18.7.8**	**Stoplogs and Penstocks, EQT013**	**668 days**	**Mon 31/05/21**	**Wed 29/03/23**	**Mon 31/05/21**	**Wed 29/03...**	**43 days**			
427	427	5.18.7.8.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Mon 31/05/21	Tue 25/01/22	Mon 31/05/21	Tue 25/01/22	383 days	399	428	
428	428	5.18.7.8.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	16 days	444SS-60 ed	456	
429	**429**	**5.18.7.9**	**Pipework, Valves and Electric Actuators, EQT036, EQT042 (Rev. 11)**	**409 days**	**Mon 14/02/22**	**Wed 29/03/23**	**Mon 14/02/22**	**Wed 29/03...**	**43 days**	**56,63**		
430	430	5.18.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Mon 14/02/22	Tue 11/10/22	Mon 14/02/22	Tue 11/10/22	124 days	399	431	
431	431	5.18.7.9.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	16 days	430,444SS-6	457	
432	**432**	**5.18.7.10**	**Lifting Appliances**	**790 days**	**Fri 29/01/21**	**Wed 29/03/23**	**Fri 29/01/21**	**Wed 29/03...**	**66 days**			
433	433	5.18.7.10.1	Manufacturing and Factory Acceptance Test of Plant	210 days	Fri 29/01/21	Thu 26/08/21	Fri 29/01/21	Thu 26/08/21	535 days	403	434	
434	434	5.18.7.10.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	16 days	433,444SS-6	447	
435	**435**	**5.18.7.11**	**LV Switchboards**	**635 days**	**Sat 03/07/21**	**Wed 29/03/23**	**Sat 03/07/21**	**Wed 29/03...**	**53 days**			
436	436	5.18.7.11.1	PST - Manufacturing of Plant	300 days	Sat 03/07/21	Thu 28/04/22	Sat 03/07/21	Thu 28/04/22	0 days	402	437	
437	437	5.18.7.11.2	PST - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days	Fri 29/04/22	Wed 27/07/22	Fri 29/04/22	Wed 27/07/...	200 days	436	438	
438	438	5.18.7.11.3	PST - Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/...	16 days	437,444SS-6	469	
439	**439**	**5.18.7.12**	**PLC System**	**405 days**	**Fri 11/03/22**	**Wed 19/04/23**	**Fri 11/03/22**	**Wed 19/04...**	**32 days**			
440	440	5.18.7.12.1	Manufacturing of Plant, PLC for PST	300 days	Fri 11/03/22	Wed 04/01/23	Fri 11/03/22	Wed 04/01/...	0 days	400	441	
441	441	5.18.7.12.2	Factory Acceptance Test of Plant, PLC for PST (To be witnessed by PM	60 days	Thu 05/01/23	Sun 05/03/23	Thu 05/01/23	Sun 05/03/23	0 days	440	442	
442	442	5.18.7.12.3	Shipping and Delivery of Plant to site	45 days	Mon 06/03/23	Wed 19/04/23	Mon 06/03/23	Wed 19/04/...	0 days	441,444SS-6	470	
443	**443**	**5.18.8**	**Site Installation Work**	**298 days**	**Fri 14/04/23**	**Mon 05/02/24**	**Fri 14/04/23**	**Mon 05/02...**	**0 days**			
444	444	5.18.8.1	Tentative Civil Handover Date, Portion B-3, PST No. 1~4 (Rev. 5)	1 day	Fri 14/04/23	Fri 14/04/23	Fri 14/04/23	Fri 14/04/23	0 days		447,482FS+90 days,445,4	
445	**445**	**5.18.8.2**	**Commencement of E&M Installation at PST No. 1~4**	**297 days**	**Sat 15/04/23**	**Mon 05/02/24**	**Sat 15/04/23**	**Mon 05/02...**	**0 days**	**444**		**403**
446	446	5.18.8.2.1	Provision of Temporary Water Supply, Electricity Supply, Lighting We	30 days	Sat 15/04/23	Sun 14/05/23	Sat 15/04/23	Sun 14/05/23	0 days	444		
447	**447**	**5.18.8.2.2**	**Installation of Lifting Appliances at PST No. 1~4**	**127 days**	**Sat 15/04/23**	**Sat 19/08/23**	**Sat 15/04/23**	**Sat 19/08/23**	**50 days**	**444,434**		
448	448	5.18.8.2.2.1	Basement EOT Crane LA-02-01 SWL 10t	30 days	Sat 15/04/23	Sun 14/05/23	Sat 15/04/23	Sun 14/05/23	0 days		449,450,454	LA - A x 4~6 men
449	449	5.18.8.2.2.2	Coping Level EOT Crane LA-02-02 SWL 5t	30 days	Mon 15/05/23	Tue 13/06/23	Mon 15/05/23	Tue 13/06/23	60 days	448	454	LA - A x 4~6 men
450	450	5.18.8.2.2.3	Coping Level EOT Crane LA-02-03 SWL 5t	30 days	Mon 15/05/23	Tue 13/06/23	Mon 15/05/23	Tue 13/06/23	0 days	448	451,452,454	LA - B x 4~6 men
451	451	5.18.8.2.2.4	Coping Level EOT Crane LA-02-04 SWL 5t	30 days	Wed 14/06/23	Thu 13/07/23	Wed 14/06/23	Thu 13/07/23	30 days	450	454	LA - A x 4~6 men
452	452	5.18.8.2.2.5	Coping Level EOT Crane LA-02-05 SWL 5t	30 days	Wed 14/06/23	Thu 13/07/23	Wed 14/06/23	Thu 13/07/23	0 days	450	453,454	LA - B x 4~6 men
453	453	5.18.8.2.2.6	Coping Level EOT Crane LA-02-06 SWL 2t	30 days	Fri 14/07/23	Sat 12/08/23	Fri 14/07/23	Sat 12/08/23	0 days	452	454	LA - A x 4~6 men
454	454	5.18.8.2.2.7	T&C, Loading Test for Lifting Appliances at PST No. 1~4	7 days	Sun 13/08/23	Sat 19/08/23	Sun 13/08/23	Sat 19/08/23	0 days	448,449,450	458	LA - A x 4~6 men
455	**455**	**5.18.8.2.3**	**Mechanical Installations at PST No. 1~4**	**240 days**	**Sat 15/04/23**	**Sun 10/12/23**	**Sat 15/04/23**	**Sun 10/12/23**	**20 days**		**479**	
456	456	5.18.8.2.3.1	Installation of penstocks and stoplogs (Penstock 18nos, Stoplogs 1	90 days	Sat 15/04/23	Thu 13/07/23	Sat 15/04/23	Thu 13/07/23	0 days	428	462,467	ME - E x 4~6 men
457	457	5.18.8.2.3.2	Installation of pipework and valves, EQT036	240 days	Sat 15/04/23	Sun 10/12/23	Sat 15/04/23	Sun 10/12/23	27 days	431		ME - B x 4~6 men
458	458	5.18.8.2.3.3	Installation of lamella plate settlers (x4), EQT014	60 days	Sun 20/08/23	Wed 18/10/23	Sun 20/08/23	Wed 18/10/...	0 days	459,454,407	460,461	ME - A x 4~6 men
459	459	5.18.8.2.3.4	Installation of reciprocating type bottom scrapers (x4), EQT014	30 days	Sat 15/04/23	Sun 14/05/23	Sat 15/04/23	Sun 14/05/23	97 days	410	458	ME - A x 4~6 men
460	460	5.18.8.2.3.5	Installation of surface scum skimmers (x1), EQT015	30 days	Thu 19/10/23	Fri 17/11/23	Thu 19/10/23	Fri 17/11/23	50 days	458,413		ME - A x 4~6 men
461	461	5.18.8.2.3.6	Installation of scum collector pipes (x1), EQT015	30 days	Thu 19/10/23	Fri 17/11/23	Thu 19/10/23	Fri 17/11/23	50 days	458,416		ME - B x 4~6 men
462	462	5.18.8.2.3.7	Installation of piston type primary sludge pumps (x3), EQT016	30 days	Fri 14/07/23	Sat 12/08/23	Fri 14/07/23	Sat 12/08/23	0 days	456,419	463	ME - C x 4~6 men
463	463	5.18.8.2.3.8	Installation of drain pumps (x1), EQT007	30 days	Sun 13/08/23	Mon 11/09/23	Sun 13/08/23	Mon 11/09/...	0 days	462,422	464	ME - C x 4~6 men
464	464	5.18.8.2.3.9	Installation of air blowers (x2), EQT018	30 days	Tue 12/09/23	Wed 11/10/23	Tue 12/09/23	Wed 11/10/...	0 days	463,425	465	ME - C x 4~6 men
465	465	5.18.8.2.3.10	Installation of instrumentations, EQT035-1	60 days	Thu 12/10/23	Sun 10/12/23	Thu 12/10/23	Sun 10/12/23	27 days	464,52		ME - C x 4~6 men
466	466	5.18.8.2.3.11	Installation of Platforms, Covers etc., PST, EQT050	60 days	Thu 21/09/23	Sun 19/11/23	Thu 21/09/23	Sun 19/11/23	48 days			ME - F x 4~6 men



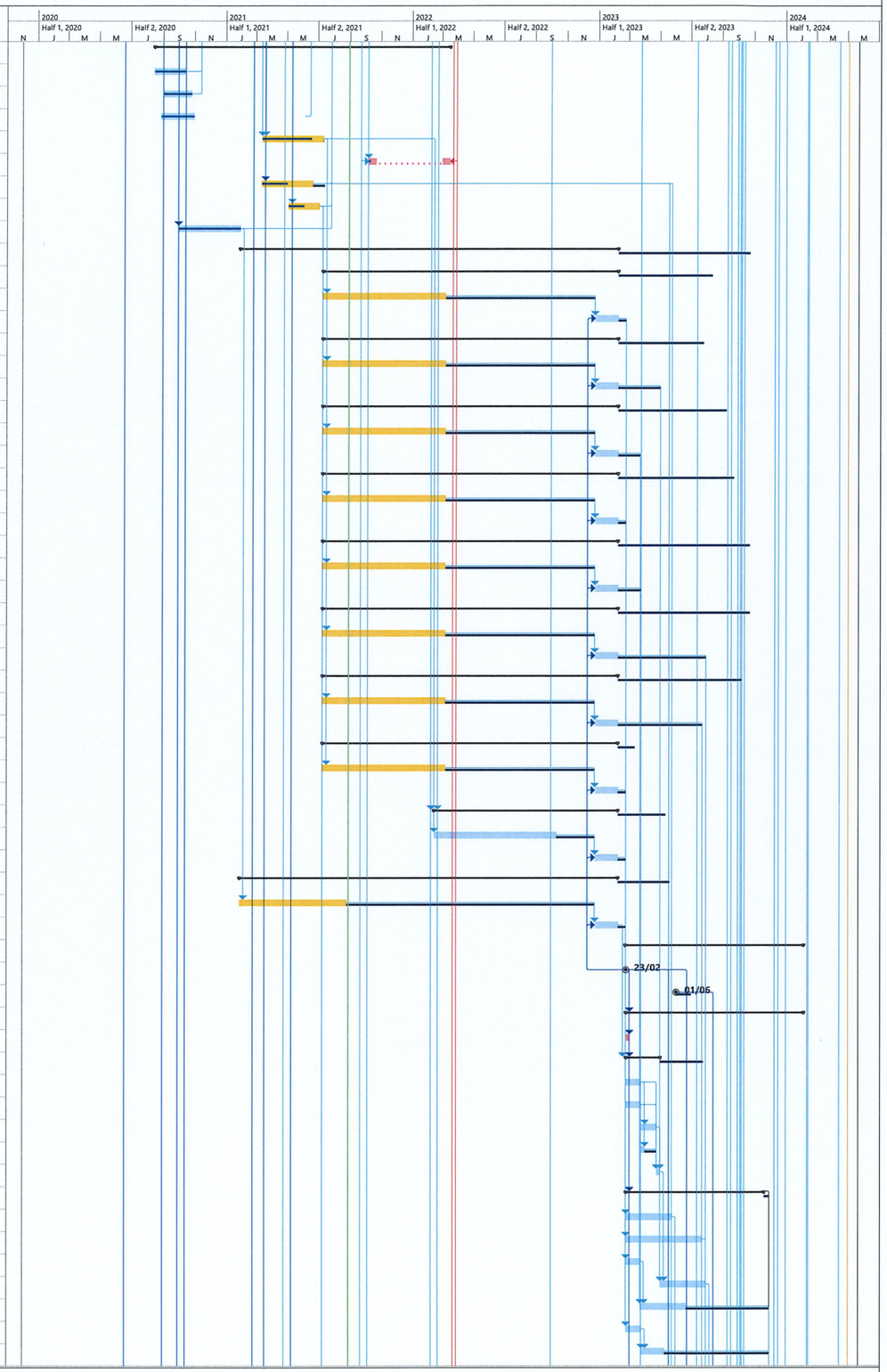
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
467	467	5.18.8.2.3.3	Site Acceptance Tests - mechanical aspects including alignment an	150 days	Fri 14/07/23	Sun 10/12/23	Fri 14/07/23	Sun 10/12/23	27 days	456		ME - D x 2~4 men
468	**468**	**5.18.8.2.4**	**Electrical Installations for PST No. 1~4**	**260 days**	**Sat 15/04/23**	**Sat 30/12/23**	**Sat 15/04/23**	**Sat 30/12/23**	**0 days**	**444**	**479**	
469	469	5.18.8.2.4.1	Installation of LV Switchboards, PST	60 days	Sat 15/04/23	Tue 13/06/23	Sat 15/04/23	Tue 13/06/23	30 days	438	472	LV - A x 4~6 men
470	470	5.18.8.2.4.2	Installation of PLC Panel, PST	60 days	Thu 20/04/23	Sun 18/06/23	Thu 20/04/23	Sun 18/06/23	25 days	442	472	EE - A x 4~6 men
471	471	5.18.8.2.4.3	Installation of cable trays and cable containments, PST	90 days	Sat 15/04/23	Thu 13/07/23	Sat 15/04/23	Thu 13/07/23	0 days		472	EE - A x 4~6 men
472	472	5.18.8.2.4.4	Cables laying and terminations, PST	90 days	Fri 14/07/23	Wed 11/10/23	Fri 14/07/23	Wed 11/10/...	0 days	469,470,471	474FS-30 days,477,475	EE - B x 4~6 men
473	473	5.18.8.2.4.5	Tentative Civil Handover Date, LV cables draw pits from IW to PST	1 day	Thu 20/07/23	Thu 20/07/23	Thu 20/07/23	Thu 20/07/23	24 days		474FF+30 days	
474	474	5.18.8.2.4.6	Energisation of LV Switchboards, PST	1 day	Tue 12/09/23	Tue 12/09/23	Tue 12/09/23	Tue 12/09/23	109 days	472FS-30 da	479	LV - A x 4~6 men
475	475	5.18.8.2.4.7	Site Acceptance Tests - Electrical aspects including voltage and cur	80 days	Thu 12/10/23	Sat 30/12/23	Thu 12/10/23	Sat 30/12/23	2 days	472	350	LV - A x 4~6 men
476	**476**	**5.18.8.2.5**	**SCADA Systems, PST No. 1~4**	**60 days**	**Thu 12/10/23**	**Sun 10/12/23**	**Thu 12/10/23**	**Sun 10/12/23**	**57 days**			
477	477	5.18.8.2.5.1	Configuration of PLC System	45 days	Thu 12/10/23	Sat 25/11/23	Thu 12/10/23	Sat 25/11/23	0 days	472	478	PLC - B x 1 man
478	478	5.18.8.2.5.2	Site Acceptance Test for PLC System at PST No. 1~4	15 days	Sun 26/11/23	Sun 10/12/23	Sun 26/11/23	Sun 10/12/23	0 days	477	480FF,1275	PLC - A x 1 man
479	479	5.18.8.2.6	Site Acceptance Test for E&M Equip and Instrumentations calibratio	15 edays	Sat 30/12/23	Sun 14/01/24	Sat 30/12/23	Sun 14/01/24	0.63 edays	455,468,474	480	
480	480	5.18.8.2.7	System Commissioning for E&M Equip at PST No, 1~4	15 days	Mon 15/01/24	Mon 29/01/24	Mon 15/01/24	Mon 29/01/...	0 days	479,478FF	481	
481	481	5.18.8.2.8	Risk Allowances for Completion of Processing Plant at PST No. 1~4	7 edays	Mon 29/01/24	Mon 05/02/24	Mon 29/01/24	Mon 05/02/...	2.63 edays	480	1271	
482	**482**	**5.18.8.2.9**	**Building Services Installations for PST No. 1~4**	**150 days**	**Fri 14/07/23**	**Sun 10/12/23**	**Fri 14/07/23**	**Sun 10/12/23**	**2 days**	**444FS+90 da**		
483	483	5.18.8.2.9.1	Mechanical Ventilation and Air Conditioning System, PST	90 days	Fri 14/07/23	Wed 11/10/23	Fri 14/07/23	Wed 11/10/...	0 days		489	MVAC - B x 4~6 men
484	484	5.18.8.2.9.2	Lighting and Power Distribution System, PST	90 days	Fri 14/07/23	Wed 11/10/23	Fri 14/07/23	Wed 11/10/...	0 days		489	BS - A x 4~6 men
485	485	5.18.8.2.9.3	Plumbing Installation, PST	80 days	Fri 14/07/23	Sun 01/10/23	Fri 14/07/23	Sun 01/10/23	0 days	1242	1244,489	Pb - B x 4~6 men
486	486	5.18.8.2.9.4	CCTV Installation (9 indoor + 2 outdoor Cameras), PST	60 days	Fri 14/07/23	Mon 11/09/23	Fri 14/07/23	Mon 11/09/...	0 days	444FS+60 da	489,1274	BS - B x 4~6 men
487	487	5.18.8.2.9.5	Fire Services Installation, PST	85 days	Fri 14/07/23	Fri 06/10/23	Fri 14/07/23	Fri 06/10/23	0 days		1195,1207,1208,489	FS - A x 4~6 men
488	488	5.18.8.2.9.6	Earthing and Lightning Protection System, PST	90 days	Fri 14/07/23	Wed 11/10/23	Fri 14/07/23	Wed 11/10/...	0 days		489	BS - C x 2~4 men
489	489	5.18.8.2.9.7	Testing and Commissioning of Building Services Installations, PST	60 days	Thu 12/10/23	Sun 10/12/23	Thu 12/10/23	Sun 10/12/23	113 days	483,484,485	365FF	BS - C x 2~4 men
490	**490**	**5.19**	**Bioreactors No. 2A & 2B, Portion B-4 (PS 6B2.4)**	**1326 days**	**Sat 15/08/20**	**Mon 01/04/24**	**Sat 15/08/20**	**Mon 01/04...**	**0 days**			
491	491	5.19.1	Planned Key Date Completion Date - KD1A, BR 2A & 2B	0 days	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	0 days	525FF,526FF		
492	492	5.19.2	Planned Key Date Completion Date - KD1B, BR 2A & 2B	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	527FF		
493	493	5.19.3	Planned Sectional Completion Date - Section 1, BR 2A & 2B	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	528FF,529FF		
494	494	5.19.4	Planned Sectional Completion Date - Section 2, BR 2A & 2B	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days	600FF,599FF		
495	**495**	**5.19.5**	**Selection of Suppliers for major plant and materials for BR 2A & 2B**	**193 days**	**Tue 01/09/20**	**Fri 12/03/21**	**Tue 01/09/20**	**Fri 12/03/21**	**96 days**			
496	**496**	**5.19.5.1**	**BR - pre-treatment fine screens (Marking Scheme Approach), EQT019**	**150 days**	**Tue 01/09/20**	**Thu 28/01/21**	**Tue 01/09/20**	**Thu 28/01/21**	**0 days**			
497	497	5.19.5.1.1	Submission for acceptance of purchasing package	60 days	Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	0 days		498	
498	498	5.19.5.1.2	Invitation of quotations for purchasing package	60 days	Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	0 days	497	499	
499	499	5.19.5.1.3	Acceptance of conforming quotation (Completed)	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days	498	528	
500	**500**	**5.19.5.2**	**BR - air diffusion system (Marking Scheme Approach), EQT017**	**180 days**	**Tue 01/09/20**	**Sat 27/02/21**	**Tue 01/09/20**	**Sat 27/02/21**	**0 days**			
501	501	5.19.5.2.1	Submission for acceptance of purchasing package including proposed marking scheme	90 days	Tue 01/09/20	Sun 29/11/20	Tue 01/09/20	Sun 29/11/20	0 days		502	
502	502	5.19.5.2.2	Invitation of quotations for purchasing package	60 days	Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days	501	503	
503	503	5.19.5.2.3	Acceptance of conforming quotation	30 days	Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	0 days	502	528	
504	**504**	**5.19.5.3**	**BR - submersible mixers, C11, EQT020**	**150 days**	**Tue 01/09/20**	**Thu 28/01/21**	**Tue 01/09/20**	**Thu 28/01/21**	**0 days**			
505	505	5.19.5.3.1	Submission for acceptance of purchasing package	60 days	Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	0 days		506	
506	506	5.19.5.3.2	Invitation of quotations for purchasing package	60 days	Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	0 days	505	507	
507	507	5.19.5.3.3	Acceptance of conforming quotation (Completed)	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days	506	528	
508	**508**	**5.19.5.4**	**BR - mixed liquor return pumps, C11, EQT008**	**150 days**	**Mon 14/09/20**	**Wed 10/02/21**	**Mon 14/09/20**	**Wed 10/02/21**	**0 days**			
509	509	5.19.5.4.1	Submission for acceptance of purchasing package	60 days	Mon 14/09/20	Thu 12/11/20	Mon 14/09/20	Thu 12/11/20	0 days		510	
510	510	5.19.5.4.2	Invitation of quotations for purchasing package	60 days	Fri 13/11/20	Mon 11/01/21	Fri 13/11/20	Mon 11/01/21	0 days	509	511	
511	511	5.19.5.4.3	Acceptance of conforming quotation (Completed)	30 days	Tue 12/01/21	Wed 10/02/21	Tue 12/01/21	Wed 10/02/21	0 days	510	528	
512	**512**	**5.19.5.5**	**BR - scum removal systems, C11, EQT021, EQT022**	**150 days**	**Mon 14/09/20**	**Wed 10/02/21**	**Mon 14/09/20**	**Wed 10/02/21**	**126 days**			
513	513	5.19.5.5.1	Submission for acceptance of purchasing package	60 days	Mon 14/09/20	Thu 12/11/20	Mon 14/09/20	Thu 12/11/20	0 days		514	
514	514	5.19.5.5.2	Invitation of quotations for purchasing package	60 days	Fri 13/11/20	Mon 11/01/21	Fri 13/11/20	Mon 11/01/21	0 days	513	515	
515	515	5.19.5.5.3	Acceptance of conforming quotation	30 days	Tue 12/01/21	Wed 10/02/21	Tue 12/01/21	Wed 10/02/21	30 days	514	528	
516	**516**	**5.19.5.6**	**BR - aeration blowers (Marking Scheme Approach), EQT039**	**180 days**	**Mon 14/09/20**	**Fri 12/03/21**	**Mon 14/09/20**	**Fri 12/03/21**	**96 days**			
517	517	5.19.5.6.1	Submission for acceptance of purchasing package including proposed marking scheme	90 days	Mon 14/09/20	Sat 12/12/20	Mon 14/09/20	Sat 12/12/20	0 days		518	
518	518	5.19.5.6.2	Invitation of quotations for purchasing package	60 days	Sun 13/12/20	Wed 10/02/21	Sun 13/12/20	Wed 10/02/21	0 days	517	519	
519	519	5.19.5.6.3	Acceptance of conforming quotation	30 days	Thu 11/02/21	Fri 12/03/21	Thu 11/02/21	Fri 12/03/21	0 days	518	528	
520	**520**	**5.19.5.7**	**BR - instrumentations, C11, EQT035-2**	**150 days**	**Thu 01/10/20**	**Sat 27/02/21**	**Thu 01/10/20**	**Sat 27/02/21**	**109 days**			
521	521	5.19.5.7.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days		522	
522	522	5.19.5.7.2	Invitation of quotations for purchasing package	60 days	Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days	521	523	
523	523	5.19.5.7.3	Acceptance of conforming quotation	30 days	Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	13 days	522	528	



Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

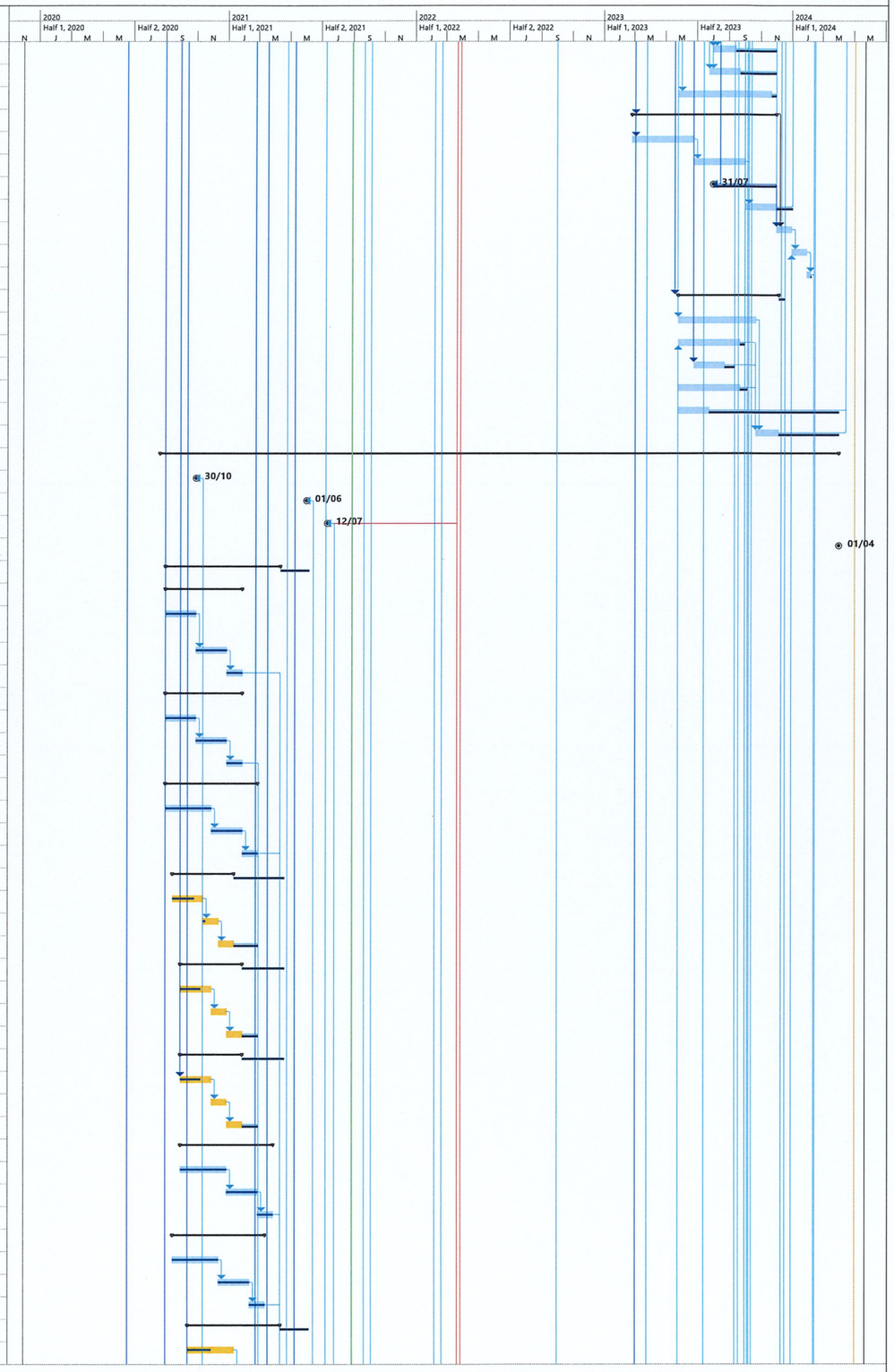
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
524	**524**	**5.19.6**	**Design Submissions for BR 2A & 2B**	**578 days**	**Sat 15/08/20**	**Tue 15/03/22**	**Sat 15/08/20**	**Tue 15/03/22**	**0 days**			
525	525	5.19.6.1	Electrical schematic drawings for BR No. 2A & 2B	60 days	Sat 15/08/20	Tue 13/10/20	Sat 15/08/20	Tue 13/10/20	0 days		491FF	
526	526	5.19.6.2	CDS080-3 - Civil and dimensional requirements drawings for BR 2A&2B up to +	55 days	Tue 01/09/20	Sun 25/10/20	Tue 01/09/20	Sun 25/10/20	0 days		491FF	
527	527	5.19.6.3	CDS081-3 - Civil and dimensional requirements drawings for BR 2A & 2	281 days	Fri 28/08/20	Fri 04/06/21	Fri 28/08/20	Fri 04/06/21	0 days		492FF	
528	528	5.19.6.4	CDS004 - Detailed Design for Bioreactor 2A and 2B	120 edays	Fri 12/03/21	Sat 10/07/21	Fri 12/03/21	Sat 10/07/21	0.63 edays	499,503,507	535,538,541,544,547,550	
529	529	5.19.6.5	CDS023 - Detailed Design for Electrical Installations for BR No. 2A & 2B	159.38 edays	Thu 07/10/21	Tue 15/03/22	Thu 07/10/21	Tue 15/03/22	0 edays	75,85,93,19	76,493FF,702	
530	530	5.19.6.6	CDS034-3 - Detailed Design for Electrical Installations BS at BR No. 2A &	100 edays	Fri 12/03/21	Sun 20/06/21	Fri 12/03/21	Sun 20/06/21	22.38 edays	136	594,493FF,595	
531	531	5.19.6.7	CDS025-3 - Detailed Design for LV Switchboards for BR 2A and 2B	60 edays	Mon 03/05/21	Fri 02/07/21	Mon 03/05/21	Fri 02/07/21	0.63 edays	71	688,493FF	
532	532	5.19.6.8	CDS050-3 - Detailed Design for Lifting Appliances - BR 2A & 2B	120 edays	Thu 01/10/20	Fri 29/01/21	Thu 01/10/20	Fri 29/01/21	0 edays	116	562,493FF	
533	**533**	**5.19.7**	**Manufacturing and Delivery of Plant & Materials**	**740 days**	**Fri 29/01/21**	**Tue 07/02/23**	**Fri 29/01/21**	**Tue 07/02/23**	**258 days**			
534	**534**	**5.19.7.1**	**Pre-treatment Fine Screens, EQT019**	**577 days**	**Sun 11/07/21**	**Tue 07/02/23**	**Sun 11/07/21**	**Tue 07/02/23**	**185 days**			
535	535	5.19.7.1.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/...	292 days	528	536	
536	536	5.19.7.1.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	16 days	535,565SS-6	578	
537	**537**	**5.19.7.2**	**Air Diffusion System, EQT017**	**577 days**	**Sun 11/07/21**	**Tue 07/02/23**	**Sun 11/07/21**	**Tue 07/02/23**	**168 days**			
538	538	5.19.7.2.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/...	292 days	528	539	
539	539	5.19.7.2.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	83 days	538,565SS-6	579	
540	**540**	**5.19.7.3**	**Submersible Mixer, EQT020**	**577 days**	**Sun 11/07/21**	**Tue 07/02/23**	**Sun 11/07/21**	**Tue 07/02/23**	**213 days**			
541	541	5.19.7.3.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/...	292 days	528	542	
542	542	5.19.7.3.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	44 days	541,565SS-6	580	
543	**543**	**5.19.7.4**	**Mixed Liquor Return Pumps, EQT008**	**577 days**	**Sun 11/07/21**	**Tue 07/02/23**	**Sun 11/07/21**	**Tue 07/02/23**	**228 days**			
544	544	5.19.7.4.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/...	292 days	528	545	
545	545	5.19.7.4.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	16 days	544,565SS-6	581	
546	**546**	**5.19.7.5**	**Sum Removal System, EQT021, EQT022**	**577 days**	**Sun 11/07/21**	**Tue 07/02/23**	**Sun 11/07/21**	**Tue 07/02/23**	**258 days**			
547	547	5.19.7.5.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/...	292 days	528	548	
548	548	5.19.7.5.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	46 days	547,565SS-6	582	
549	**549**	**5.19.7.6**	**Aeration Blowers, EQT039**	**577 days**	**Sun 11/07/21**	**Tue 07/02/23**	**Sun 11/07/21**	**Tue 07/02/23**	**258 days**			
550	550	5.19.7.6.1	Manufacturing and Factory Acceptance Test of Plant (to be witnesse	240 days	Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/...	292 days	528	551	
551	551	5.19.7.6.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	173 days	550,565SS-6	583	
552	**552**	**5.19.7.7**	**Instrumentations, EQT035-2**	**577 days**	**Sun 11/07/21**	**Tue 07/02/23**	**Sun 11/07/21**	**Tue 07/02/23**	**243 days**			
553	553	5.19.7.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/...	292 days	528	554	
554	554	5.19.7.7.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	166 days	553,565SS-6	584	
555	**555**	**5.19.7.8**	**Stoplogs and Penstocks, EQT013**	**577 days**	**Sun 11/07/21**	**Tue 07/02/23**	**Sun 11/07/21**	**Tue 07/02/23**	**33 days**			
556	556	5.19.7.8.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/...	292 days	528	557	
557	557	5.19.7.8.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	16 days	556,565SS-6	576	
558	**558**	**5.19.7.9**	**Pipework, Valves and Electric Actuators, EQT036, EQT042 (Rev. 11)**	**359 days**	**Mon 14/02/22**	**Tue 07/02/23**	**Mon 14/02/22**	**Tue 07/02/23**	**93 days**	**56,63**		
559	559	5.19.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Mon 14/02/22	Tue 11/10/22	Mon 14/02/22	Tue 11/10/22	74 days	528	560	
560	560	5.19.7.9.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	16 days	559,565SS-6	577	
561	**561**	**5.19.7.10**	**Lifting Appliances**	**740 days**	**Fri 29/01/21**	**Tue 07/02/23**	**Fri 29/01/21**	**Tue 07/02/23**	**101 days**			
562	562	5.19.7.10.1	Manufacturing and Factory Acceptance Test of Plant	210 days	Fri 29/01/21	Thu 26/08/21	Fri 29/01/21	Thu 26/08/21	485 days	532	563	
563	563	5.19.7.10.2	Shipping and Delivery of Plant to site	45 days	Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	16 days	562,565SS-6	569	
564	**564**	**5.19.8**	**Site Installation Work**	**348 days**	**Thu 23/02/23**	**Mon 05/02/24**	**Thu 23/02/23**	**Mon 05/02...**	**0 days**			
565	565	5.19.8.1	Tentative Civil Handover Date, Portion B-4, BR2A & 2B (Rev. 5)	1 day	Thu 23/02/23	Thu 23/02/23	Thu 23/02/23	Thu 23/02/23	0 days		569,575,586,594FS+90 ec	
566	566	5.19.8.2	Tentative Civil Handover Date, LV cables draw pits from MFB2 to BR2	1 day	Thu 01/06/23	Thu 01/06/23	Thu 01/06/23	Thu 01/06/23	30 days		589FF+30 days	
567	**567**	**5.19.8.3**	**Commencement of E&M Installation at Bioreactor No. 2A & 2B**	**347 days**	**Fri 24/02/23**	**Mon 05/02/24**	**Fri 24/02/23**	**Mon 05/02...**	**0 days**	**565**		
568	568	5.19.8.3.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, W	7 days	Fri 24/02/23	Thu 02/03/23	Fri 24/02/23	Thu 02/03/23	0 days	565		
569	**569**	**5.19.8.3.2**	**Installation of Lifting Appliances at BR 2A & 2B**	**67 days**	**Fri 24/02/23**	**Mon 01/05/23**	**Fri 24/02/23**	**Mon 01/05...**	**85 days**	**565,563**		
570	570	5.19.8.3.2.	Coping Level EOT Crane LA-03-01 SWL 5t	30 days	Fri 24/02/23	Sat 25/03/23	Fri 24/02/23	Sat 25/03/23	0 days		572,573,574	LA - A x 4~6 men
571	571	5.19.8.3.2.	Coping Level EOT Crane LA-03-02 SWL 5t	30 days	Fri 24/02/23	Sat 25/03/23	Fri 24/02/23	Sat 25/03/23	0 days		572,573,574	LA - B x 4~6 men
572	572	5.19.8.3.2.	Coping Level EOT Crane LA-03-03 SWL 5t	30 days	Sun 26/03/23	Mon 24/04/23	Sun 26/03/23	Mon 24/04/...	0 days	570,571	574	LA - A x 4~6 men
573	573	5.19.8.3.2.	Coping Level Mobile A-frame LA-03-04 SWL 4t	7 days	Sun 26/03/23	Sat 01/04/23	Sun 26/03/23	Sat 01/04/23	23 days	570,571	574	LA - B x 4~6 men
574	574	5.19.8.3.2.	T&C, Loading Test for Lifting Appliances at Bioreactor No. 2A & 2B	7 days	Tue 25/04/23	Mon 01/05/23	Tue 25/04/23	Mon 01/05/...	0 days	570,571,572	579	LA - B x 4~6 men
575	**575**	**5.19.8.3.3**	**Mechanical Installations for E&M Equip at BR 2A & 2B**	**270 days**	**Fri 24/02/23**	**Mon 20/11/23**	**Fri 24/02/23**	**Mon 20/11...**	**10 days**	**565**	**591**	
576	576	5.19.8.3.3.	Installation of penstocks and stoplogs (Penstocks 8nos, Stoplogs 8	90 days	Fri 24/02/23	Wed 24/05/23	Fri 24/02/23	Wed 24/05/...	0 days	557	585	ME - E x 4~6 men
577	577	5.19.8.3.3.	Installation of pipework and valves, EQT036	150 days	Fri 24/02/23	Sun 23/07/23	Fri 24/02/23	Sun 23/07/23	0 days	560	584	ME - C x 4~6 men
578	578	5.19.8.3.3.	Installation of pre-treatment fine screens (x4)	28 days	Fri 24/02/23	Thu 23/03/23	Fri 24/02/23	Thu 23/03/23	0 days	536	580	ME - A x 4~6 men
579	579	5.19.8.3.3.	Installation of air diffusion system (x2), EQT017	90 days	Tue 02/05/23	Sun 30/07/23	Tue 02/05/23	Sun 30/07/23	0 days	574,539	583	ME - D x 2~4 men
580	580	5.19.8.3.3.	Installation of submersible mixers (x16), EQT020	90 days	Fri 24/03/23	Wed 21/06/23	Fri 24/03/23	Wed 21/06/...	162 days	578,542	591	ME - B x 4~6 men
581	581	5.19.8.3.3.	Installation of mixed liquor return pumps (x6), EQT008	30 days	Fri 24/02/23	Sat 25/03/23	Fri 24/02/23	Sat 25/03/23	0 days	545	582	ME - A x 4~6 men
582	582	5.19.8.3.3.	Installation of scum removal systems (x2), EQT022	45 days	Sun 26/03/23	Tue 09/05/23	Sun 26/03/23	Tue 09/05/23	205 days	581,548	591	ME - B x 4~6 men



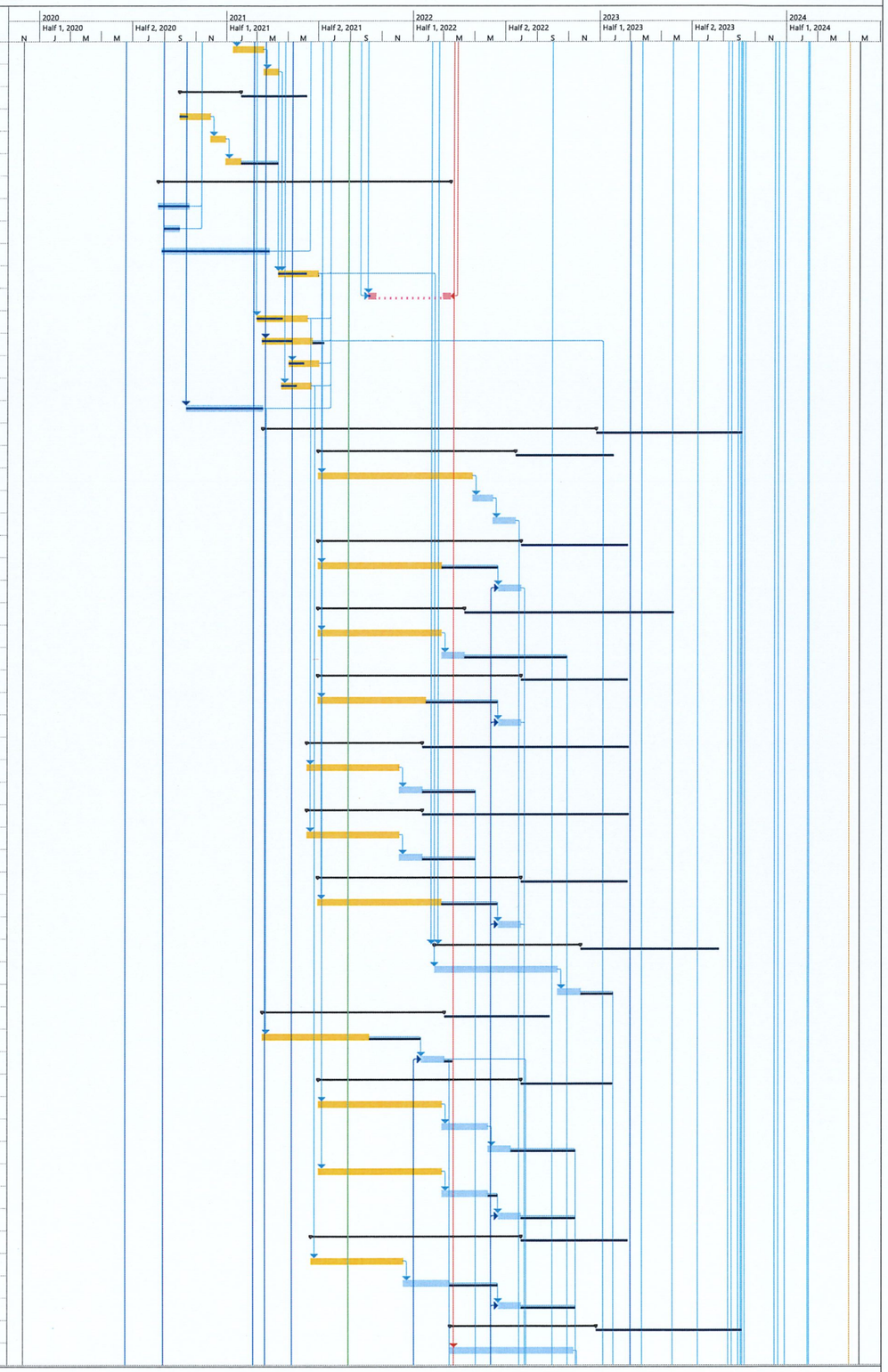
Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

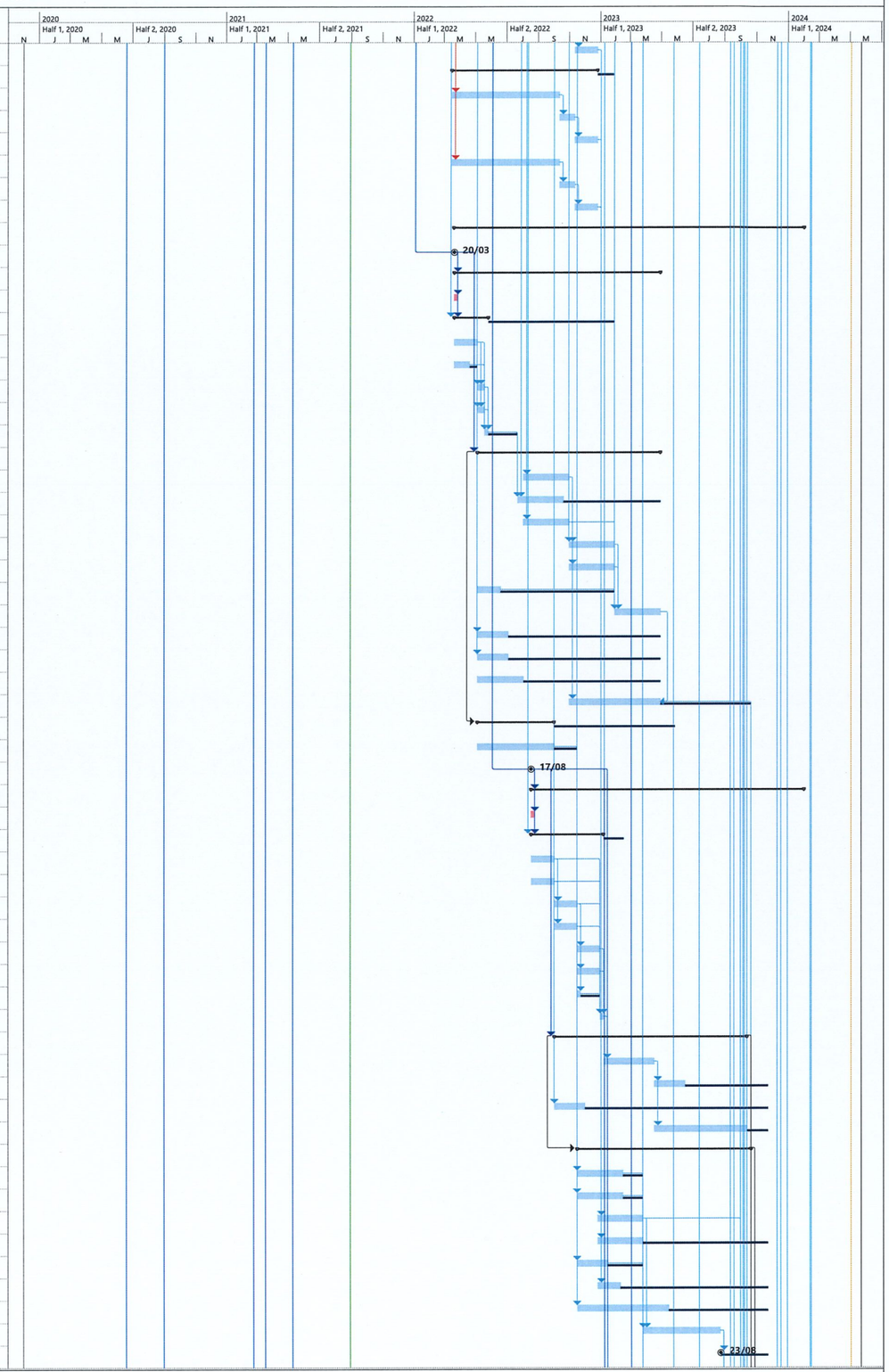
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
583	583	5.19.8.3.3.3	Installation of aeration blowers (x4), EQT039	45 days	Mon 31/07/23	Wed 13/09/23	Mon 31/07/23	Wed 13/09/...	78 days	579,551	591	ME - D x 2~4 men
584	584	5.19.8.3.3.4	Installation of instrumentations, EQT035-2	60 days	Mon 24/07/23	Thu 21/09/23	Mon 24/07/23	Thu 21/09/23	70 days	577,554	591	ME - D x 2~4 men
585	585	5.19.8.3.3.5	Site Acceptance Tests - mechanical aspects including alignment an	180 days	Thu 25/05/23	Mon 20/11/23	Thu 25/05/23	Mon 20/11/...	10 days	576	591	ME - D x 2~4 men
586	**586**	**5.19.8.3.4**	**Electrical Installations for E&M Equip at BR 2A & 2B**	**280 days**	**Fri 24/02/23**	**Thu 30/11/23**	**Fri 24/02/23**	**Thu 30/11/23**	**0 days**	**565**	**591**	
587	587	5.19.8.3.4.1	Installation of cable trays and cable containments	120 days	Fri 24/02/23	Fri 23/06/23	Fri 24/02/23	Fri 23/06/23	0 days	565	588	EE - A x 4~6 men
588	588	5.19.8.3.4.2	Cables laying and terminations	100 days	Sat 24/06/23	Sun 01/10/23	Sat 24/06/23	Sun 01/10/23	0 days	587	590,761	EE - C x 4~6 men
589	589	5.19.8.3.4.3	Energisation of LV Switchboards, BR2	1 day	Mon 31/07/23	Mon 31/07/23	Mon 31/07/23	Mon 31/07/...	122 days	566FF+30 d	591	LV - A x 4~6 men
590	590	5.19.8.3.4.4	Site Acceptance Tests - Electrical aspects including voltage and cu	60 days	Mon 02/10/23	Thu 30/11/23	Mon 02/10/23	Thu 30/11/23	32 days	588	350	LV - A x 4~6 men
591	591	5.19.8.3.5	Site Acceptance Test for E&M Equip at BR 2A & 2B	30 edays	Thu 30/11/23	Sat 30/12/23	Thu 30/11/23	Sat 30/12/23	0.63 edays	575,580,582	592	
592	592	5.19.8.3.6	System Commissioning for E&M Equip at BR 2A & 2B	30 days	Sun 31/12/23	Mon 29/01/24	Sun 31/12/23	Mon 29/01/...	0 days	591,763	593	
593	593	5.19.8.3.7	Risk Allowances for Completion of Processing Plant at BR 2A & 2B	7 edays	Mon 29/01/24	Mon 05/02/24	Mon 29/01/24	Mon 05/02/...	2.63 edays	592	1271	
594	**594**	**5.19.8.3.8**	**Building Services Installations for BR 2A & 2B**	**195 days**	**Thu 25/05/23**	**Tue 05/12/23**	**Thu 25/05/23**	**Tue 05/12/23**	**12 days**	**565FS+90 e**		
595	595	5.19.8.3.8.1	Lighting and Power Distribution System, BR2	150 days	Thu 25/05/23	Sat 21/10/23	Thu 25/05/23	Sat 21/10/23	0 days	530	600	BS - A x 4~6 men
596	596	5.19.8.3.8.2	Plumbing Installation, BR2	120 days	Thu 25/05/23	Thu 21/09/23	Thu 25/05/23	Thu 21/09/23	10 days	1242	1244,600	Pb - A x 4~6 men
597	597	5.19.8.3.8.3	CCTV Installation (7 indoor + 2 outdoor Cameras), BR2	60 days	Sat 24/06/23	Tue 22/08/23	Sat 24/06/23	Tue 22/08/23	20 days	565FS+120 d	600,1274	BS - B x 4~6 men
598	598	5.19.8.3.8.4	Fire Services Installation, BR2	120 days	Thu 25/05/23	Thu 21/09/23	Thu 25/05/23	Thu 21/09/23	15 days		1195,1207,1208,600	FS - B x 4~6 men
599	599	5.19.8.3.8.5	Lightning Protection System, BR2	60 days	Thu 25/05/23	Sun 23/07/23	Thu 25/05/23	Sun 23/07/23	253 days		494FF	BS - C x 2~4 men
600	600	5.19.8.3.8.6	Testing and Commissioning of Building Services Installations, BR2	45 days	Sun 22/10/23	Tue 05/12/23	Sun 22/10/23	Tue 05/12/23	118 days	595,596,597	494FF	BS - C x 2~4 men
601	**601**	**5.20**	**Membrane Facilities Building, Portion B-5 (PS 6B.2.4)**	**1320 days**	**Fri 21/08/20**	**Mon 01/04/24**	**Fri 21/08/20**	**Mon 01/04...**	**0 days**			
602	602	5.20.1	Planned Key Date Completion Date - KD1A, MFB No. 2	0 days	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	0 days	648FF,649FF		
603	603	5.20.2	Planned Key Date Completion Date - KD1B, MFB No. 2	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	650FF		
604	604	5.20.3	Planned Sectional Completion Date - Section 1, MFB No. 2	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	651FF,652FF		
605	605	5.20.4	Planned Sectional Completion Date - Section 2, MFB No. 2	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days			
606	**606**	**5.20.5**	**Selection of Suppliers for major plant and materials for MFB**	**224 days**	**Tue 01/09/20**	**Mon 12/04/21**	**Tue 01/09/20**	**Mon 12/04...**	**56 days**			
607	**607**	**5.20.5.1**	**MFS - hollow fibre membrane modules (Marking Scheme Approach), ref. EQT**	**150 days**	**Tue 01/09/20**	**Thu 28/01/21**	**Tue 01/09/20**	**Thu 28/01/21**	**0 days**			
608	608	5.20.5.1.1	Submission for acceptance of purchasing package including proposed marking scheme	60 days	Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	0 days		609	
609	609	5.20.5.1.2	Invitation of quotations for purchasing package	60 days	Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	0 days	608	610	
610	610	5.20.5.1.3	Acceptance of conforming quotation (Completed)	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days	609	651	
611	**611**	**5.20.5.2**	**MFS - air scour blowers, C11, ref. EQT040**	**150 days**	**Tue 01/09/20**	**Thu 28/01/21**	**Tue 01/09/20**	**Thu 28/01/21**	**0 days**			
612	612	5.20.5.2.1	Submission for acceptance of purchasing package	60 days	Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	0 days		613	
613	613	5.20.5.2.2	Invitation of quotations for purchasing package	60 days	Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	0 days	612	614	
614	614	5.20.5.2.3	Acceptance of conforming quotation	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days	613	653	
615	**615**	**5.20.5.3**	**MFS - permeate pumps, C11, ref. EQT024**	**180 days**	**Tue 01/09/20**	**Sat 27/02/21**	**Tue 01/09/20**	**Sat 27/02/21**	**0 days**			
616	616	5.20.5.3.1	Submission for acceptance of purchasing package	90 days	Tue 01/09/20	Sun 29/11/20	Tue 01/09/20	Sun 29/11/20	0 days		617	
617	617	5.20.5.3.2	Invitation of quotations for purchasing package	60 days	Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days	616	618	
618	618	5.20.5.3.3	Acceptance of conforming quotation (Completed)	30 days	Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	0 days	617	651	
619	**619**	**5.20.5.4**	**MFS - compressed air system, C11, ref. EQT029**	**120 days**	**Tue 15/09/20**	**Tue 12/01/21**	**Tue 15/09/20**	**Tue 12/01/21**	**98 days**			
620	620	5.20.5.4.1	Submission for acceptance of purchasing package	60 days	Tue 15/09/20	Fri 13/11/20	Tue 15/09/20	Fri 13/11/20	0 days		621	
621	621	5.20.5.4.2	Invitation of quotations for purchasing package	30 days	Sat 14/11/20	Sun 13/12/20	Sat 14/11/20	Sun 13/12/20	0 days	620	622	
622	622	5.20.5.4.3	Acceptance of conforming quotation	30 days	Mon 14/12/20	Tue 12/01/21	Mon 14/12/20	Tue 12/01/21	48 days	621	653	
623	**623**	**5.20.5.5**	**MFS - chemical storage tanks, C11, ref. EQT025**	**120 days**	**Thu 01/10/20**	**Thu 28/01/21**	**Thu 01/10/20**	**Thu 28/01/21**	**82 days**			
624	624	5.20.5.5.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days		625	
625	625	5.20.5.5.2	Invitation of quotations for purchasing package	30 days	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days	624	626	
626	626	5.20.5.5.3	Acceptance of conforming quotation	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	32 days	625	653	
627	**627**	**5.20.5.6**	**MFS - chemical dosing pumps, C11, ref. EQT026**	**120 days**	**Thu 01/10/20**	**Thu 28/01/21**	**Thu 01/10/20**	**Thu 28/01/21**	**82 days**			
628	628	5.20.5.6.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	2,30	629	
629	629	5.20.5.6.2	Invitation of quotations for purchasing package	30 days	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days	628	630	
630	630	5.20.5.6.3	Acceptance of conforming quotation	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	32 days	629	653	
631	**631**	**5.20.5.7**	**MFS - return activated sludge pumps (Marking Scheme Approach), ref. EQT0**	**180 days**	**Thu 01/10/20**	**Mon 29/03/21**	**Thu 01/10/20**	**Mon 29/03/21**	**0 days**			
632	632	5.20.5.7.1	Submission for acceptance of purchasing package	90 days	Thu 01/10/20	Tue 29/12/20	Thu 01/10/20	Tue 29/12/20	0 days		633	
633	633	5.20.5.7.2	Invitation of quotations for purchasing package	60 days	Wed 30/12/20	Sat 27/02/21	Wed 30/12/20	Sat 27/02/21	0 days	632	634	
634	634	5.20.5.7.3	Acceptance of conforming quotation (Completed)	30 days	Sun 28/02/21	Mon 29/03/21	Sun 28/02/21	Mon 29/03/21	0 days	633	651	
635	**635**	**5.20.5.8**	**MFS - membrane tank drain pumps, C11, ref. EQT009**	**180 days**	**Tue 15/09/20**	**Sat 13/03/21**	**Tue 15/09/20**	**Sat 13/03/21**	**0 days**			
636	636	5.20.5.8.1	Submission for acceptance of purchasing package	90 days	Tue 15/09/20	Sun 13/12/20	Tue 15/09/20	Sun 13/12/20	0 days		637	
637	637	5.20.5.8.2	Invitation of quotations for purchasing package	60 days	Mon 14/12/20	Thu 11/02/21	Mon 14/12/20	Thu 11/02/21	0 days	636	638	
638	638	5.20.5.8.3	Acceptance of conforming quotation (Completed)	30 days	Fri 12/02/21	Sat 13/03/21	Fri 12/02/21	Sat 13/03/21	0 days	637	651	
639	**639**	**5.20.5.9**	**Plant Service Water System - booster pumps, C11, ref. EQT030**	**180 days**	**Thu 15/10/20**	**Mon 12/04/21**	**Thu 15/10/20**	**Mon 12/04...**	**56 days**			
640	640	5.20.5.9.1	Submission for acceptance of purchasing package	90 days	Thu 15/10/20	Tue 12/01/21	Thu 15/10/20	Tue 12/01/21	0 days		641	



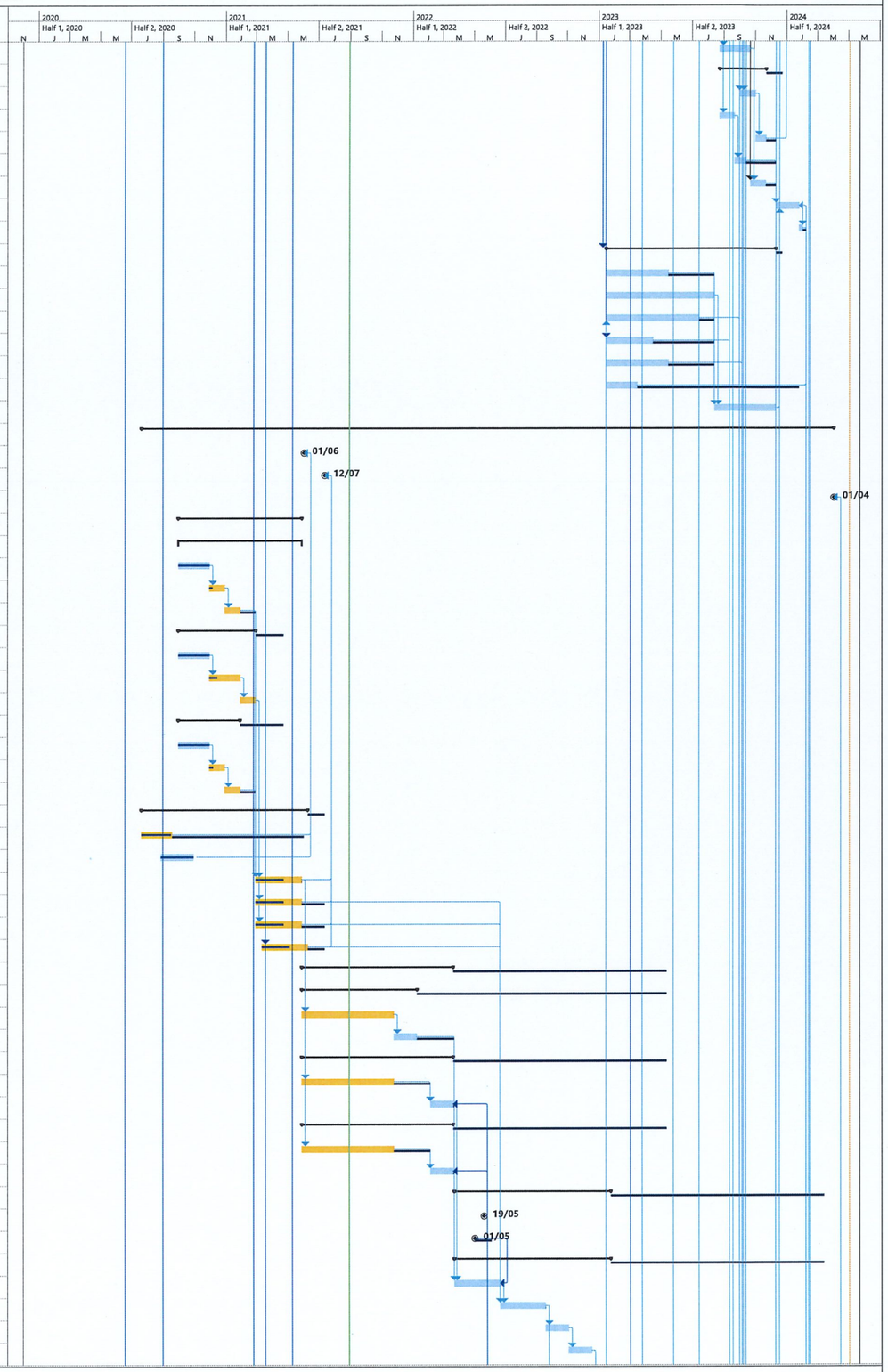
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
641	641	5.20.5.9.2	Invitation of quotations for purchasing package	60 days	Wed 13/01/21	Sat 13/03/21	Wed 13/01/21	Sat 13/03/21	0 days	640	642	
642	642	5.20.5.9.3	Acceptance of conforming quotation	30 days	Sun 14/03/21	Mon 12/04/21	Sun 14/03/21	Mon 12/04/...	0 days	641	651	
643	**643**	**5.20.5.10**	**Plant Service Water System - hydro-pneumatic pressure tanks, C11, re**	**120 days**	**Thu 01/10/20**	**Thu 28/01/21**	**Thu 01/10/20**	**Thu 28/01/21**	**130 days**			
644	644	5.20.5.10.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days		645	
645	645	5.20.5.10.2	Invitation of quotations for purchasing package	30 days	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days	644	646	
646	646	5.20.5.10.3	Acceptance of conforming quotation	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	74 days	645	651	
647	**647**	**5.20.6**	**Design Submissions for MFB No. 2**	**572 days**	**Fri 21/08/20**	**Tue 15/03/22**	**Fri 21/08/20**	**Tue 15/03/22**	**0 days**			
648	648	5.20.6.1	Electrical schematic drawings for MFB No. 2	60 days	Fri 21/08/20	Mon 19/10/20	Fri 21/08/20	Mon 19/10/...	0 days		602FF	
649	649	5.20.6.2	CDS080-4 - Civil and dimensional requirements drawigns for MFB no. 2 up to +	30 days	Tue 01/09/20	Wed 30/09/20	Tue 01/09/20	Wed 30/09/20	0 days		602FF	
650	650	5.20.6.3	CDS081-4 - Civil and dimensional requirements drawings for MFB No. 2	210 days	Fri 28/08/20	Thu 25/03/21	Fri 28/08/20	Thu 25/03/21	0 days		603FF	
651	651	5.20.6.4	CDS005 - Detailed Design for Membrane Filtration System, Pumps and	80 edays	Mon 12/04/21	Thu 01/07/21	Mon 12/04/21	Thu 01/07/21	0.63 edays	610,618,634	660,664,667,670,679,682	
652	652	5.20.6.5	CDS024 - Detailed Design for Electrical Installations for MFB No. 2	159.38 edays	Thu 07/10/21	Tue 15/03/22	Thu 07/10/21	Tue 15/03/22	0 edays	75,85,81,89,	76,699,705,604FF	
653	653	5.20.6.6	CDS008 - Detailed Design for Membrane Filtration System, Air Blowers,	100 edays	Mon 01/03/21	Wed 09/06/21	Mon 01/03/21	Wed 09/06/...	0.63 edays	614,622,626	673,676,604FF	
654	654	5.20.6.7	CDS034-4 - Detailed Design for Electrical Installations BS at MFB No. 2	100 edays	Fri 12/03/21	Sun 20/06/21	Fri 12/03/21	Sun 20/06/21	22.38 edays	136	768,604FF	
655	655	5.20.6.8	CDS025-4 - Detailed Design for LV Switchboards for Membrane Filtratic	60 edays	Mon 03/05/21	Fri 02/07/21	Mon 03/05/21	Fri 02/07/21	0.63 edays	71	691,604FF	
656	656	5.20.6.9	CDS026-2 - Detailed Design for HV Switchboards for MFB No. 2	60 edays	Sun 18/04/21	Thu 17/06/21	Sun 18/04/21	Thu 17/06/21	0.63 edays	67	604FF,695	
657	657	5.20.6.10	CDS050-4 - Detailed Design for Lifting Appliances - MFB No. 2	150 edays	Thu 15/10/20	Sun 14/03/21	Thu 15/10/20	Sun 14/03/21	0 edays	116	685,604FF	
658	**658**	**5.20.7**	**Manufacturing and Delivery of Plant & Materials**	**652 days**	**Sun 14/03/21**	**Sun 25/12/22**	**Sun 14/03/21**	**Sun 25/12/22**	**287 days**			
659	**659**	**5.20.7.1**	**Hollow Fibre Membrane Modules, EQT023**	**385 days**	**Fri 02/07/21**	**Thu 21/07/22**	**Fri 02/07/21**	**Thu 21/07/22**	**191 days**			
660	660	5.20.7.1.1	MFS - Manufacturing of Plant	300 days	Fri 02/07/21	Wed 27/04/22	Fri 02/07/21	Wed 27/04/...	0 days	651	661	
661	661	5.20.7.1.2	MFS - Factory Acceptance Test of Plant (to be witnessed by PM)	40 days	Thu 28/04/22	Mon 06/06/22	Thu 28/04/22	Mon 06/06/...	0 days	660	662	
662	662	5.20.7.1.3	MFS - Shipping and Delivery of Plant to site	45 days	Tue 07/06/22	Thu 21/07/22	Tue 07/06/22	Thu 21/07/22	0 days	661	720	
663	**663**	**5.20.7.2**	**Air Scour Blowers, EQT040**	**396 days**	**Fri 02/07/21**	**Mon 01/08/22**	**Fri 02/07/21**	**Mon 01/08...**	**208 days**			
664	664	5.20.7.2.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Fri 02/07/21	Sat 26/02/22	Fri 02/07/21	Sat 26/02/22	111 days	651	665	
665	665	5.20.7.2.2	Shipping and Delivery of Plant to site	45 days	Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/...	0 days	664,732SS-6	721	
666	**666**	**5.20.7.3**	**Permeate Pump, EQT024**	**285 days**	**Fri 02/07/21**	**Tue 12/04/22**	**Fri 02/07/21**	**Tue 12/04/22**	**409 days**			
667	667	5.20.7.3.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Fri 02/07/21	Sat 26/02/22	Fri 02/07/21	Sat 26/02/22	0 days	651	668	
668	668	5.20.7.3.2	Shipping and Delivery of Plant to site	45 days	Sun 27/02/22	Tue 12/04/22	Sun 27/02/22	Tue 12/04/22	201 days	667	722	
669	**669**	**5.20.7.4**	**Compressed Air System, EQT029**	**396 days**	**Fri 02/07/21**	**Mon 01/08/22**	**Fri 02/07/21**	**Mon 01/08...**	**208 days**			
670	670	5.20.7.4.1	Manufacturing and Factory Acceptance Test of Plant	210 days	Fri 02/07/21	Thu 27/01/22	Fri 02/07/21	Thu 27/01/22	141 days	651	671	
671	671	5.20.7.4.2	Shipping and Delivery of Plant to site	45 days	Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/...	0 days	670,732SS-6	721	
672	**672**	**5.20.7.5**	**Chemical Storage Tanks, EQT025**	**225 days**	**Thu 10/06/21**	**Thu 20/01/22**	**Thu 10/06/21**	**Thu 20/01/22**	**403 days**			
673	673	5.20.7.5.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Thu 10/06/21	Mon 06/12/21	Thu 10/06/21	Mon 06/12/...	0 days	653	674	
674	674	5.20.7.5.2	Shipping and Delivery of Plant to site	45 days	Tue 07/12/21	Thu 20/01/22	Tue 07/12/21	Thu 20/01/22	104 days	673	726	
675	**675**	**5.20.7.6**	**Chemical Dosing Pumps, EQT026**	**225 days**	**Thu 10/06/21**	**Thu 20/01/22**	**Thu 10/06/21**	**Thu 20/01/22**	**403 days**			
676	676	5.20.7.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Thu 10/06/21	Mon 06/12/21	Thu 10/06/21	Mon 06/12/...	0 days	653	677	
677	677	5.20.7.6.2	Shipping and Delivery of Plant to site	45 days	Tue 07/12/21	Thu 20/01/22	Tue 07/12/21	Thu 20/01/22	104 days	676	727	
678	**678**	**5.20.7.7**	**Stoplogs and Penstocks, EQT013**	**396 days**	**Fri 02/07/21**	**Mon 01/08/22**	**Fri 02/07/21**	**Mon 01/08...**	**208 days**			
679	679	5.20.7.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Fri 02/07/21	Sat 26/02/22	Fri 02/07/21	Sat 26/02/22	111 days	651	680	
680	680	5.20.7.7.2	Shipping and Delivery of Plant to site	45 days	Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/...	0 days	679,732SS-6	719	
681	**681**	**5.20.7.8**	**Pipework, Valves and Electric Actuators, EQT036 (Rev. 11)**	**285 days**	**Mon 14/02/22**	**Fri 25/11/22**	**Mon 14/02/22**	**Fri 25/11/22**	**272 days**	**56,63**		
682	682	5.20.7.8.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Mon 14/02/22	Tue 11/10/22	Mon 14/02/22	Tue 11/10/22	0 days	651	683	
683	683	5.20.7.8.2	Shipping and Delivery of Plant to site	45 days	Wed 12/10/22	Fri 25/11/22	Wed 12/10/22	Fri 25/11/22	64 days	682	725	
684	**684**	**5.20.7.9**	**Lifting Appliances**	**356 days**	**Sun 14/03/21**	**Fri 04/03/22**	**Sun 14/03/21**	**Fri 04/03/22**	**206 days**			
685	685	5.20.7.9.1	Manufacturing and Factory Acceptance Test of Plant	210 days	Sun 14/03/21	Sat 09/10/21	Sun 14/03/21	Sat 09/10/21	101 days	657	686	
686	686	5.20.7.9.2	Shipping and Delivery of Plant to site	45 days	Wed 19/01/22	Fri 04/03/22	Wed 19/01/22	Fri 04/03/22	16 days	685,709SS-6	712,735	
687	**687**	**5.20.7.10**	**LV Switchboards**	**395 days**	**Sat 03/07/21**	**Mon 01/08/22**	**Sat 03/07/21**	**Mon 01/08...**	**178 days**			
688	688	5.20.7.10.1	BR - Manufacturing of Plant	240 days	Sat 03/07/21	Sun 27/02/22	Sat 03/07/21	Sun 27/02/22	0 days	531	689	
689	689	5.20.7.10.2	BR - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days	Mon 28/02/22	Sat 28/05/22	Mon 28/02/22	Sat 28/05/22	0 days	688	690	
690	690	5.20.7.10.3	BR - Shipping and Delivery of Plant to site	45 days	Sun 29/05/22	Tue 12/07/22	Sun 29/05/22	Tue 12/07/22	126 days	689	750	
691	691	5.20.7.10.4	MFS - Manufacturing of Plant	240 days	Sat 03/07/21	Sun 27/02/22	Sat 03/07/21	Sun 27/02/22	0 days	655	692	
692	692	5.20.7.10.5	MFS - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days	Mon 28/02/22	Sat 28/05/22	Mon 28/02/22	Sat 28/05/22	20 days	691	693	
693	693	5.20.7.10.6	MFS - Shipping and Delivery of Plant to site	45 days	Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/...	106 days	692,732SS-6	751	
694	**694**	**5.20.7.11**	**HV Switchboards, EQT031**	**410 days**	**Fri 18/06/21**	**Mon 01/08/22**	**Fri 18/06/21**	**Mon 01/08...**	**208 days**			
695	695	5.20.7.11.1	MFS - Manufacturing of Plant	180 days	Fri 18/06/21	Tue 14/12/21	Fri 18/06/21	Tue 14/12/21	0 days	656	696	
696	696	5.20.7.11.2	MFS - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days	Wed 15/12/21	Mon 14/03/22	Wed 15/12/21	Mon 14/03/...	95 days	695	697	
697	697	5.20.7.11.3	MFS - Shipping and Delivery of Plant to site	45 days	Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/...	106 days	696,732SS-6	754	
698	**698**	**5.20.7.12**	**11kV/380V Stepdown Power Transformers, EQT032**	**285 days**	**Wed 16/03/22**	**Sun 25/12/22**	**Wed 16/03/22**	**Sun 25/12/22**	**287 days**			
699	699	5.20.7.12.1	MFS - Manufacturing and Factory Acceptance Test of Plant	240 days	Wed 16/03/22	Thu 10/11/22	Wed 16/03/22	Thu 10/11/22	0 days	652	700	



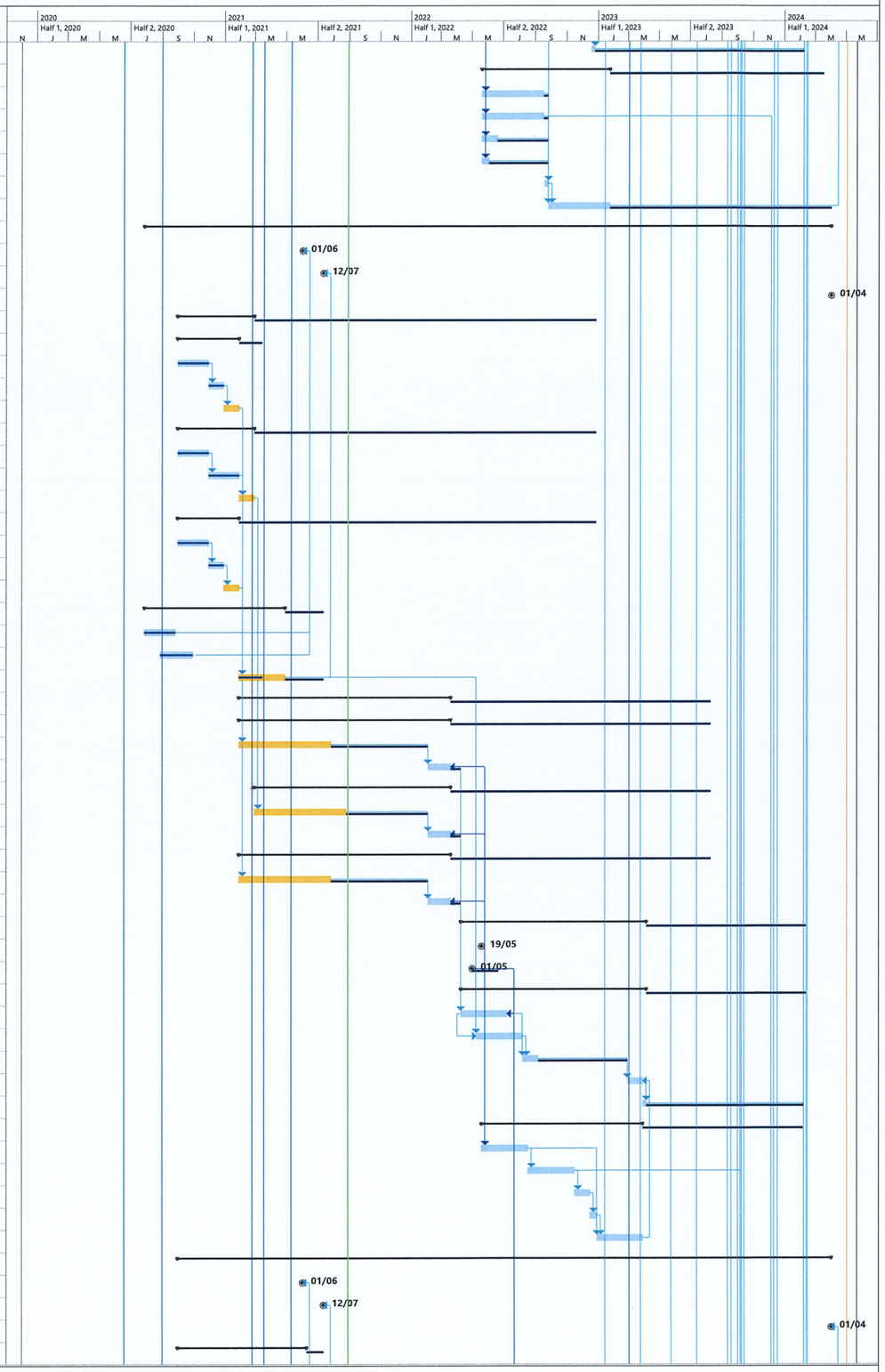
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
700	700	5.20.7.12.2	MFS - Shipping and Delivery of Plant to site	45 days	Fri 11/11/22	Sun 25/12/22	Fri 11/11/22	Sun 25/12/22	0 days	699	755	
701	**701**	**5.20.7.13**	**PLC System**	**285 days**	**Wed 16/03/22**	**Sun 25/12/22**	**Wed 16/03/22**	**Sun 25/12/22**	**32 days**			
702	702	5.20.7.13.1	Manufacturing of Plant, PLC for BR2A &B	210 days	Wed 16/03/22	Tue 11/10/22	Wed 16/03/22	Tue 11/10/22	0 days	529	703	
703	703	5.20.7.13.2	Factory Acceptance Test of Plant, PLC for BR2A &B (To be witnessed	30 days	Wed 12/10/22	Thu 10/11/22	Wed 12/10/22	Thu 10/11/22	0 days	702	704	
704	704	5.20.7.13.3	Shipping and Delivery of Plant to site	45 days	Fri 11/11/22	Sun 25/12/22	Fri 11/11/22	Sun 25/12/22	0 days	703	752	
705	705	5.20.7.13.4	Manufacturing of Plant, PLC for MFB2	210 days	Wed 16/03/22	Tue 11/10/22	Wed 16/03/22	Tue 11/10/22	0 days	652	706	
706	706	5.20.7.13.5	Factory Acceptance Test of Plant, PLC for MFB2 (To be witnessed by	30 days	Wed 12/10/22	Thu 10/11/22	Wed 12/10/22	Thu 10/11/22	0 days	705	707	
707	707	5.20.7.13.6	Shipping and Delivery of Plant to site	45 days	Fri 11/11/22	Sun 25/12/22	Fri 11/11/22	Sun 25/12/22	0 days	706	753	
708	**708**	**5.20.8**	**Site Installation Work**	**683 days**	**Sun 20/03/22**	**Wed 31/01/24**	**Sun 20/03/22**	**Wed 31/01...**	**0 days**			
709	709	5.20.8.1	Tentative Civil Handover Date, Portion B-5A, MFB No. 2 below 1st floor	1 day	Sun 20/03/22	Sun 20/03/22	Sun 20/03/22	Sun 20/03/22	0 days		712,718FS+45 edays,711,	
710	**710**	**5.20.8.2**	**Commencement of E&M Installation at MFB No. 2 Lower Part**	**404 days**	**Mon 21/03/22**	**Fri 28/04/23**	**Mon 21/03/22**	**Fri 28/04/23**	**0 days**	**709**		
711	711	5.20.8.2.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, W	7 days	Mon 21/03/22	Sun 27/03/22	Mon 21/03/22	Sun 27/03/22	0 days	709		
712	**712**	**5.20.8.2.2**	**Installation of Lifting Appliances at MFB No. 2**	**66 days**	**Mon 21/03/22**	**Wed 25/05/22**	**Mon 21/03/22**	**Wed 25/05...**	**248 days**	**709,686**		
713	713	5.20.8.2.2.1	B2 EOT Crane LA-04-01 SWL 5t	45 days	Mon 21/03/22	Wed 04/05/22	Mon 21/03/22	Wed 04/05/...	0 days		715,716,717	
714	714	5.20.8.2.2.2	B2 EOT Crane LA-04-02 SWL 5t	30 days	Mon 21/03/22	Tue 19/04/22	Mon 21/03/22	Tue 19/04/22	15 days		715,716,717	
715	715	5.20.8.2.2.3	B2 MR LA-04-03 SWL 5t	14 days	Thu 05/05/22	Wed 18/05/22	Thu 05/05/22	Wed 18/05/...	0 days	713,714	717	
716	716	5.20.8.2.2.4	B1 MR LA-04-04 SWL 3t	14 days	Thu 05/05/22	Wed 18/05/22	Thu 05/05/22	Wed 18/05/...	0 days	713,714	717	
717	717	5.20.8.2.2.5	T&C, Loading Test for Lifting Appliances	7 days	Thu 19/05/22	Wed 25/05/22	Thu 19/05/22	Wed 25/05/...	57 days	713,714,715	720	
718	**718**	**5.20.8.2.3**	**Mechanical Installations for E&M Equip. at MFB No. 2 Lower Part**	**359 days**	**Thu 05/05/22**	**Fri 28/04/23**	**Thu 05/05/22**	**Fri 28/04/23**	**0 days**	**709FS+45 e**	**730SS**	
719	719	5.20.8.2.3.1	Installation of penstocks and stoplogs (Penstocks 18nos, Stoplogs	90 days	Tue 02/08/22	Sun 30/10/22	Tue 02/08/22	Sun 30/10/22	0 days	680	729	ME - E x 4~6 men
720	720	5.20.8.2.3.2	Installation of hollow fibre membrane modules (x9), EQT023	90 days	Fri 22/07/22	Wed 19/10/22	Fri 22/07/22	Wed 19/10/...	191 days	662,717		ME - A x 4~6 men
721	721	5.20.8.2.3.3	Installation of air scour blowers (x3), EQT040	90 days	Tue 02/08/22	Sun 30/10/22	Tue 02/08/22	Sun 30/10/22	0 days	665,671	725,722,723	ME - B x 4~6 men
722	722	5.20.8.2.3.4	Installation of permeate pumps (x10), EQT024	90 days	Mon 31/10/22	Sat 28/01/23	Mon 31/10/22	Sat 28/01/23	0 days	721,668	725	ME - A x 4~6 men
723	723	5.20.8.2.3.5	Installation of return activated sludge pumps (x5), EQT010	90 days	Mon 31/10/22	Sat 28/01/23	Mon 31/10/22	Sat 28/01/23	0 days	721	725	ME - B x 4~6 men
724	724	5.20.8.2.3.6	Installation of membrane tank drain pumps (x2), EQT009	45 days	Thu 05/05/22	Sat 18/06/22	Thu 05/05/22	Sat 18/06/22	224 days		725	ME - C x 4~6 men
725	725	5.20.8.2.3.7	Installation of pipework and valves, EQT036	90 days	Sun 29/01/23	Fri 28/04/23	Sun 29/01/23	Fri 28/04/23	0 days	721,722,723	729FF	ME - C x 4~6 men
726	726	5.20.8.2.3.8	Installation of chemical storage tank, EQT025	60 days	Thu 05/05/22	Sun 03/07/22	Thu 05/05/22	Sun 03/07/22	299 days	674		ME - D x 2~4 men
727	727	5.20.8.2.3.9	Installation of chemical dosing pumps, EQT026	60 days	Thu 05/05/22	Sun 03/07/22	Thu 05/05/22	Sun 03/07/22	299 days	677		ME - D x 2~4 men
728	728	5.20.8.2.3.10	Installation of plant service water system	90 days	Thu 05/05/22	Tue 02/08/22	Thu 05/05/22	Tue 02/08/22	269 days			ME - C x 4~6 men
729	729	5.20.8.2.3.11	Site Acceptance Tests - mechanical aspects including alignment an	180 days	Mon 31/10/22	Fri 28/04/23	Mon 31/10/22	Fri 28/04/23	176 days	719,725FF	765	ME - D x 2~4 men
730	**730**	**5.20.8.2.4**	**Electrical Installations for E&M Equip. at MFB No. 2 Lower Part**	**150 days**	**Thu 05/05/22**	**Sat 01/10/22**	**Thu 05/05/22**	**Sat 01/10/22**	**237 days**	**718SS**		
731	731	5.20.8.2.4.1	Installation of cable trays and cable containments	150 days	Thu 05/05/22	Sat 01/10/22	Thu 05/05/22	Sat 01/10/22	45 days		756	
732	732	5.20.8.3	Tentative Civil Handover Date, Portion B-5B, MFB No. 2 remaining port	1 day	Wed 17/08/22	Wed 17/08/22	Wed 17/08/22	Wed 17/08/...	0 days		735,744FS+45 edays,768	
733	**733**	**5.20.8.4**	**Commencement of E&M Installation at MFB No. 2 Upper Part**	**532 days**	**Thu 18/08/22**	**Wed 31/01/24**	**Thu 18/08/22**	**Wed 31/01...**	**0 days**	**732**		
734	734	5.20.8.4.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, W	7 days	Thu 18/08/22	Wed 24/08/22	Thu 18/08/22	Wed 24/08/...	0 days	732		
735	**735**	**5.20.8.4.2**	**Installation of Lifting Appliances at MFB No. 2**	**142 days**	**Thu 18/08/22**	**Fri 06/01/23**	**Thu 18/08/22**	**Fri 06/01/23**	**40 days**	**732,686**		
736	736	5.20.8.4.2.1	GF EOT Crane LA-04-05 SWL 5t	45 days	Thu 18/08/22	Sat 01/10/22	Thu 18/08/22	Sat 01/10/22	0 days		738,739,743	LA - A x 4~6 men
737	737	5.20.8.4.2.2	GF Gantry Crane LA-04-06 SWL 6t	45 days	Thu 18/08/22	Sat 01/10/22	Thu 18/08/22	Sat 01/10/22	0 days		738,739,743	LA - B x 4~6 men
738	738	5.20.8.4.2.3	1F EOT Crane LA-04-07 SWL 15t	45 days	Sun 02/10/22	Tue 15/11/22	Sun 02/10/22	Tue 15/11/22	0 days	736,737	740,741,742,743	LA - A x 4~6 men
739	739	5.20.8.4.2.4	1F EOT Crane LA-04-08 SWL 15t	45 days	Sun 02/10/22	Tue 15/11/22	Sun 02/10/22	Tue 15/11/22	0 days	736,737	740,741,742,743	LA - B x 4~6 men
740	740	5.20.8.4.2.5	RF EOT Crane LA-04-09 SWL 2t	45 days	Wed 16/11/22	Fri 30/12/22	Wed 16/11/22	Fri 30/12/22	0 days	738,739	743	LA - A x 4~6 men
741	741	5.20.8.4.2.6	RF Retractable MR LA-04-10 SWL 2t	45 days	Wed 16/11/22	Fri 30/12/22	Wed 16/11/22	Fri 30/12/22	0 days	738,739	743	LA - B x 4~6 men
742	742	5.20.8.4.2.7	Mobile A-frame LA-04-11 SWL 2t	7 days	Wed 16/11/22	Tue 22/11/22	Wed 16/11/22	Tue 22/11/22	38 days	738,739	743	LA - C x 4~6 men
743	743	5.20.8.4.2.8	T&C, Loading Test for Lifting Appliances	7 days	Sat 31/12/22	Fri 06/01/23	Sat 31/12/22	Fri 06/01/23	0 days	736,737,738	745	LA - A x 4~6 men
744	**744**	**5.20.8.4.3**	**Mechanical Installations for E&M Equip. at MFB No. 2 Upper Part**	**377 days**	**Sun 02/10/22**	**Fri 13/10/23**	**Sun 02/10/22**	**Fri 13/10/23**	**0 days**	**732FS+45 e**	**749SS+45 edays,765**	
745	745	5.20.8.4.3.1	Installation of air scour blowers (x3)	100 days	Sat 07/01/23	Sun 16/04/23	Sat 07/01/23	Sun 16/04/23	0 days	743	746,748	ME - A x 4~6 men
746	746	5.20.8.4.3.2	Installation of compressed air system (x1)	60 days	Mon 17/04/23	Thu 15/06/23	Mon 17/04/23	Thu 15/06/23	160 days	745		ME - B x 4~6 men
747	747	5.20.8.4.3.3	Installation of instrumentations, EQT035-1	60 days	Sun 02/10/22	Wed 30/11/22	Sun 02/10/22	Wed 30/11/...	357 days	52		ME - D x 2~4 men
748	748	5.20.8.4.3.4	Site Acceptance Tests - mechanical aspects including alignment an	180 days	Mon 17/04/23	Fri 13/10/23	Mon 17/04/23	Fri 13/10/23	40 days	745		ME - D x 2~4 men
749	**749**	**5.20.8.4.4**	**Electrical Installations for E&M Equip. at MFB No. 2 Upper Part**	**340 days**	**Wed 16/11/22**	**Sat 21/10/23**	**Wed 16/11/22**	**Sat 21/10/23**	**0 days**	**744SS+45 e**	**765**	
750	750	5.20.8.4.4.1	Installation of LV Switchboards, BR2	90 days	Wed 16/11/22	Mon 13/02/23	Wed 16/11/22	Mon 13/02/...	40 days	690	757	LV - B x 4~6 men
751	751	5.20.8.4.4.2	Installation of LV Switchboards, MFB No. 2	90 days	Wed 16/11/22	Mon 13/02/23	Wed 16/11/22	Mon 13/02/...	40 days	693	757	LV - A x 4~6 men
752	752	5.20.8.4.4.3	Installation of PLC Panels, BR2	90 days	Mon 26/12/22	Sat 25/03/23	Mon 26/12/22	Sat 25/03/23	0 days	704	757,761	
753	753	5.20.8.4.4.4	Installation of PLC Panels, MFB No. 2	90 days	Mon 26/12/22	Sat 25/03/23	Mon 26/12/22	Sat 25/03/23	242 days	707		PLC - B x 1 man
754	754	5.20.8.4.4.5	Installation of HV Switchboards, MFB No. 2	60 days	Wed 16/11/22	Sat 14/01/23	Wed 16/11/22	Sat 14/01/23	70 days	697	757	HV - A x 4~6 men
755	755	5.20.8.4.4.6	Installation of transformer, MFB No. 2, EQT032	45 days	Mon 26/12/22	Wed 08/02/23	Mon 26/12/22	Wed 08/02/...	287 days	700		
756	756	5.20.8.4.4.7	Installation of cable trays and cable containments	180 days	Wed 16/11/22	Sun 14/05/23	Wed 16/11/22	Sun 14/05/23	192 days	731		
757	757	5.20.8.4.4.8	Cables laying and terminations	150 days	Sun 26/03/23	Tue 22/08/23	Sun 26/03/23	Tue 22/08/23	0 days	750,751,752	762,759,758	
758	758	5.20.8.4.4.9	Energisation of LV Switchboards, MFB No. 2 (Rev. 8)	1 day	Wed 23/08/23	Wed 23/08/23	Wed 23/08/23	Wed 23/08/...	91 days	757		LA - A x 4~6 men



ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
759	759	5.20.8.4.4	Site Acceptance Tests - Electrical aspects including voltage and cur	60 days	Wed 23/08/23	Sat 21/10/23	Wed 23/08/23	Sat 21/10/23	0 days	757	765	LV - A x 4~6 men
760	760	5.20.8.4.5	**SCADA Systems, BR No. 1 & No 2, MFB No. 2**	**91 days**	**Wed 23/08/23**	**Tue 21/11/23**	**Wed 23/08/23**	**Tue 21/11/23**	**31 days**			
761	761	5.20.8.4.5.1	Configuration of PLC System for BR No. 1 & No. 2	30 days	Mon 02/10/23	Tue 31/10/23	Mon 02/10/23	Tue 31/10/23	0 days	752,588	763	PLC - A x 1 man
762	762	5.20.8.4.5.2	Configuration of PLC System for MFB No. 2	30 days	Wed 23/08/23	Thu 21/09/23	Wed 23/08/23	Thu 21/09/23	0 days	757	764	
763	763	5.20.8.4.5.3	Site Acceptance Test for PLC System at BR No. 1 and No. 2	21 days	Wed 01/11/23	Tue 21/11/23	Wed 01/11/23	Tue 21/11/23	19 days	761	766,592,1275	
764	764	5.20.8.4.5.4	Site Acceptance Test for PLC System at MFB No. 2	21 days	Fri 22/09/23	Thu 12/10/23	Fri 22/09/23	Thu 12/10/23	59 days	762	766,1275	
765	765	5.20.8.4.6	Site Acceptance Test for E&M Equip at MFB No. 2	30 edays	Sat 21/10/23	Mon 20/11/23	Sat 21/10/23	Mon 20/11/...	20.63 edays	744,749,755	766	
766	766	5.20.8.4.7	System Commissioning for E&M Equip at MFB No. 2	45 days	Mon 11/12/23	Wed 24/01/24	Mon 11/12/23	Wed 24/01/...	0 days	763,765,775	767	
767	767	5.20.8.4.8	Risk Allowances for Completion of Processing Plant at MFB No. 2	7 edays	Wed 24/01/24	Wed 31/01/24	Wed 24/01/24	Wed 31/01/...	7.63 edays	766	1271	
768	768	5.20.8.4.9	**Building Services Installations for MFB No. 2**	**330 days**	**Sun 15/01/23**	**Sun 10/12/23**	**Sun 15/01/23**	**Sun 10/12/23**	**12 days**	732FS+150		
769	769	5.20.8.4.9.1	Mechanical Ventilation and Air Conditioning System, MFB No. 2	120 days	Sun 15/01/23	Sun 14/05/23	Sun 15/01/23	Sun 14/05/23	90 days		775	MVAC - A x 4~6 men
770	770	5.20.8.4.9.2	Lighting and Power Distribution System, MFB No. 2	210 days	Sun 15/01/23	Sat 12/08/23	Sun 15/01/23	Sat 12/08/23	0 days		775	BS - A x 4~6 men
771	771	5.20.8.4.9.3	Plumbing Installation, MFB No. 2	180 days	Sun 15/01/23	Thu 13/07/23	Sun 15/01/23	Thu 13/07/23	30 days	1242	1244,775	Pb - B x 4~6 men
772	772	5.20.8.4.9.4	CCTV Installation (10 indoor + 3 outdoor Cameras), MFB No. 2	90 days	Sun 15/01/23	Fri 14/04/23	Sun 15/01/23	Fri 14/04/23	120 days	732FS+120	775,1274	BS - B x 4~6 men
773	773	5.20.8.4.9.5	Fire Services Installation, MFB No. 2	120 days	Sun 15/01/23	Sun 14/05/23	Sun 15/01/23	Sun 14/05/23	90 days		1195,1207,1208,775	FS - B x 4~6 men
774	774	5.20.8.4.9.6	Earthing and Lightning Protection System, MFB No. 2	60 days	Sun 15/01/23	Wed 15/03/23	Sun 15/01/23	Wed 15/03/...	315 days		766FF	BS - C x 2~4 men
775	775	5.20.8.4.9.7	Testing and Commissioning of Building Services Installations, MFB	120 days	Sun 13/08/23	Sun 10/12/23	Sun 13/08/23	Sun 10/12/23	0 days	769,770,771	766	BS - C x 2~4 men
776	776	5.21	**Chemical System No. 1 and No. 2, Portion B-7 & B-7B (PS 6B.2.3)**	**1351 days**	**Tue 21/07/20**	**Mon 01/04/24**	**Tue 21/07/20**	**Mon 01/04...**	**0 days**			
777	777	5.21.1	Planned Key Date Completion Date - KD1B, Chem Sys No. 1 & 2	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	794FF,795FF		
778	778	5.21.2	Planned Sectional Completion Date - Section 1, Chem Sys No. 1 & 2	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	796FF,797FF		
779	779	5.21.3	Planned Sectional Completion Date - Section 2, Chem Sys No. 1 & 2	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days	825FF		
780	780	5.21.4	**Selection of Suppliers for major plant and materials for Chemical System**	**240 days**	**Thu 01/10/20**	**Fri 28/05/21**	**Thu 01/10/20**	**Fri 28/05/21**	**0 days**			
781	781	5.21.4.1	**Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQT025**	**240 days**	**Thu 01/10/20**	**Fri 28/05/21**	**Thu 01/10/20**	**Fri 28/05/21**	**0 days**			
782	782	5.21.4.1.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days		783	
783	783	5.21.4.1.2	Invitation of quotations for purchasing package	30 days	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days	782	784	
784	784	5.21.4.1.3	Acceptance of conforming quotation	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	30 days	783	796	
785	785	5.21.4.2	**Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQT027**	**150 days**	**Thu 01/10/20**	**Sat 27/02/21**	**Thu 01/10/20**	**Sat 27/02/21**	**54 days**			
786	786	5.21.4.2.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days		787	
787	787	5.21.4.2.2	Invitation of quotations for purchasing package	60 days	Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days	786	788	
788	788	5.21.4.2.3	Acceptance of conforming quotation	30 days	Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	0 days	787	796,797,798	
789	789	5.21.4.3	**Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026**	**120 days**	**Thu 01/10/20**	**Thu 28/01/21**	**Thu 01/10/20**	**Thu 28/01/21**	**84 days**			
790	790	5.21.4.3.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days		791	
791	791	5.21.4.3.2	Invitation of quotations for purchasing package	30 days	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days	790	792	
792	792	5.21.4.3.3	Acceptance of conforming quotation	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	30 days	791	796	
793	793	5.21.5	**Design Submissions for Chemical System No. 1 and No. 2**	**324 days**	**Tue 21/07/20**	**Thu 10/06/21**	**Tue 21/07/20**	**Thu 10/06/21**	**33 days**			
794	794	5.21.5.1	Electrical schematic drawings for Chemical Systems No. 1 and No. 2	60 days	Tue 21/07/20	Fri 18/09/20	Tue 21/07/20	Fri 18/09/20	256 days		777FF	
795	795	5.21.5.2	CDS081-5 - Civil and dimensional requirements drawings for Chemical S	70 days	Fri 28/08/20	Thu 05/11/20	Fri 28/08/20	Thu 05/11/20	0 days		777FF	
796	796	5.21.5.3	CDS006 - Detailed Design for Chemical Dosing System	90 edays	Sat 27/02/21	Fri 28/05/21	Sat 27/02/21	Fri 28/05/21	0.63 edays	784,788,792	802,805,808,778FF	
797	797	5.21.5.4	CDS027 - Detailed Design for Electrical Installations for Chemical Syster	90 edays	Sat 27/02/21	Fri 28/05/21	Sat 27/02/21	Fri 28/05/21	45 edays	788	815,778FF	
798	798	5.21.5.5	CDS028 - Detailed Design for Electrical Installations for Chemical Syster	90 edays	Sat 27/02/21	Fri 28/05/21	Sat 27/02/21	Fri 28/05/21	45 edays	788	815,778FF	
799	799	5.21.5.6	CDS034-5 - Detailed Design for Electrical Installations BS at Chemical Sy	90 edays	Fri 12/03/21	Thu 10/06/21	Fri 12/03/21	Thu 10/06/21	32.38 edays	136	815,778FF	
800	800	5.21.6	**Manufacturing and Delivery of Plant & Materials**	**296 days**	**Sat 29/05/21**	**Sun 20/03/22**	**Sat 29/05/21**	**Sun 20/03/22**	**417 days**			
801	801	5.21.6.1	**Chemical Storage Tanks, EQT025**	**225 days**	**Sat 29/05/21**	**Sat 08/01/22**	**Sat 29/05/21**	**Sat 08/01/22**	**488 days**			
802	802	5.21.6.1.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Sat 29/05/21	Wed 24/11/21	Sat 29/05/21	Wed 24/11/...	0 days	796	803	
803	803	5.21.6.1.2	Shipping and Delivery of Plant to site	45 days	Thu 25/11/21	Sat 08/01/22	Thu 25/11/21	Sat 08/01/22	73 days	802	814	
804	804	5.21.6.2	**Chemical Dosing Pumps, EQT027**	**296 days**	**Sat 29/05/21**	**Sun 20/03/22**	**Sat 29/05/21**	**Sun 20/03/22**	**417 days**			
805	805	5.21.6.2.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Sat 29/05/21	Wed 24/11/21	Sat 29/05/21	Wed 24/11/...	71 days	796	806	
806	806	5.21.6.2.2	Shipping and Delivery of Plant to site	45 days	Fri 04/02/22	Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	2 days	805,811FF-6	814	
807	807	5.21.6.3	**Chemical Transfer Pumps, EQT026**	**296 days**	**Sat 29/05/21**	**Sun 20/03/22**	**Sat 29/05/21**	**Sun 20/03/22**	**417 days**			
808	808	5.21.6.3.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Sat 29/05/21	Wed 24/11/21	Sat 29/05/21	Wed 24/11/...	71 days	796	809	
809	809	5.21.6.3.2	Shipping and Delivery of Plant to site	45 days	Fri 04/02/22	Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	2 days	808,811FF-6	814	
810	810	5.21.7	**Site Installation Work**	**307 days**	**Tue 22/03/22**	**Mon 23/01/23**	**Tue 22/03/22**	**Mon 23/01...**	**415 days**			
811	811	5.21.7.1	Tentative Civil Handover Date, Portion B-7 & B-7B (Rev. 5)	1 day	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days		809FF-60 edays,806FF-60	
812	812	5.21.7.2	Tentative Civil Handover Date, Chemical Pipe Trench (by others)	1 day	Sun 01/05/22	Sun 01/05/22	Sun 01/05/22	Sun 01/05/22	33 days		814FF+50 days	
813	813	5.21.7.3	**Commencement of E&M Installation at Chemical Dosing System 1 and**	**307 days**	**Tue 22/03/22**	**Mon 23/01/23**	**Tue 22/03/22**	**Mon 23/01...**	**415 days**			
814	814	5.21.7.3.1	Mechanical Installations for E&M Equip. for Chemical Dosing System	90 edays	Tue 22/03/22	Mon 20/06/22	Tue 22/03/22	Mon 20/06/...	0 edays	812FF+50 d	815	ME - D x 2~4 men
815	815	5.21.7.3.2	Electrical Installations for E&M Equip. for Chemical Dosing System	90 edays	Mon 20/06/22	Sun 18/09/22	Mon 20/06/22	Sun 18/09/22	0.63 edays	814,797,798	816,824	EE - B x 4~6 men
816	816	5.21.7.3.3	Site Acceptance Test for E&M Equip for Chemical Dosing System	45 days	Mon 19/09/22	Wed 02/11/22	Mon 19/09/22	Wed 02/11/...	0 days	815	817	EE - A x 4~6 men
817	817	5.21.7.3.4	System Commissioning for E&M Equip for Chemical Dosing System	45 days	Thu 03/11/22	Sat 17/12/22	Thu 03/11/22	Sat 17/12/22	0 days	816	818	



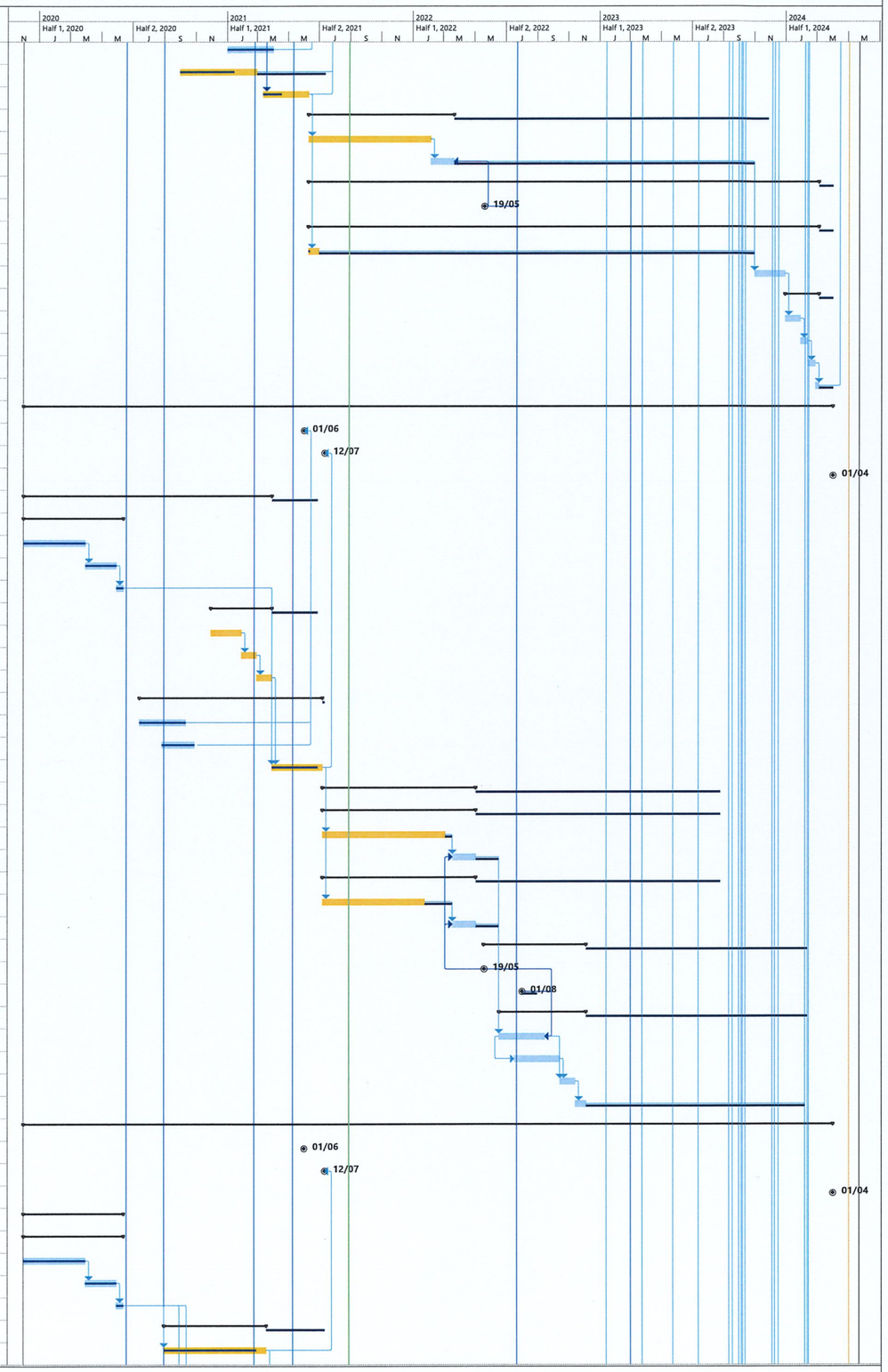
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
818	818	5.21.7.3.5	Risk Allowances for Completion of Processing Plant at Chemical Dosi	7 edays	Sat 17/12/22	Sat 24/12/22	Sat 17/12/22	Sat 24/12/22	410.63 ed...	817	1271	
819	819	5.21.7.3.6	**Building Services Installations at Chemical Dosing System areas**	**249 days**	**Fri 20/05/22**	**Mon 23/01/23**	**Fri 20/05/22**	**Mon 23/01...**	**419 days**			
820	820	5.21.7.3.6.1	Lighting and Power Distribution System, Chem 1&2	120 days	Fri 20/05/22	Fri 16/09/22	Fri 20/05/22	Fri 16/09/22	9 days	811	825	BS - B x 4~6 men
821	821	5.21.7.3.6.2	Fire Services Installation, DG Stores	120 days	Fri 20/05/22	Fri 16/09/22	Fri 20/05/22	Fri 16/09/22	9 days	811	1207,1208,1198,825	FS - A x 4~6 men
822	822	5.21.7.3.6.3	Lightning Protection System, Chem 1&2	30 days	Fri 20/05/22	Sat 18/06/22	Fri 20/05/22	Sat 18/06/22	99 days	811	825	EE - D x 4~6 men
823	823	5.21.7.3.6.4	Mechanical Ventilation System, Chem 2	14 days	Fri 20/05/22	Thu 02/06/22	Fri 20/05/22	Thu 02/06/22	115 days	811	825	MVAC - A x 4~6 men
824	824	5.21.7.3.6.5	Plumbing Installation, Chem 1	7 days	Mon 19/09/22	Sun 25/09/22	Mon 19/09/22	Sun 25/09/22	0 days	815	825	Pb - A x 4~6 men
825	825	5.21.7.3.6.6	Testing and Commissioning of Building Services Installations, Chen	120 days	Mon 26/09/22	Mon 23/01/23	Mon 26/09/22	Mon 23/01/...	434 days	820,821,824	779FF	BS - C x 2~4 men
826	826	5.22	**Temporary Chemical Dosing System, Portion B7 & B-7B (PS 6B.2.3)**	**1344 days**	**Tue 28/07/20**	**Mon 01/04/24**	**Tue 28/07/20**	**Mon 01/04...**	**0 days**			
827	827	5.22.1	Planned Key Date Completion Date - KD1B, Temp. Chem Dosing Sys	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	844FF,845FF		
828	828	5.22.2	Planned Sectional Completion Date - Section 1, Temp. Chem Dosing Sys	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	846FF		
829	829	5.22.3	Planned Sectional Completion Date - Section 2, Temp. Chem Dosing Sys	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days			
830	830	5.22.4	**Selection of Suppliers for major plant and materials for Temp. Chemical**	**150 days**	**Thu 01/10/20**	**Sat 27/02/21**	**Thu 01/10/20**	**Sat 27/02/21**	**668 days**			
831	831	5.22.4.1	**Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQT0**	**120 days**	**Thu 01/10/20**	**Thu 28/01/21**	**Thu 01/10/20**	**Thu 28/01/21**	**45 days**			
832	832	5.22.4.1.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days		833	
833	833	5.22.4.1.2	Invitation of quotations for purchasing package	30 days	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days	832	834	
834	834	5.22.4.1.3	Acceptance of conforming quotation	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days	833	846,849	
835	835	5.22.4.2	**Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQT0**	**150 days**	**Thu 01/10/20**	**Sat 27/02/21**	**Thu 01/10/20**	**Sat 27/02/21**	**668 days**			
836	836	5.22.4.2.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days		837	
837	837	5.22.4.2.2	Invitation of quotations for purchasing package	60 days	Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days	836	838	
838	838	5.22.4.2.3	Acceptance of conforming quotation	30 days	Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	0 days	837	852	
839	839	5.22.4.3	**Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026**	**120 days**	**Thu 01/10/20**	**Thu 28/01/21**	**Thu 01/10/20**	**Thu 28/01/21**	**698 days**			
840	840	5.22.4.3.1	Submission for acceptance of purchasing package	60 days	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days		841	
841	841	5.22.4.3.2	Invitation of quotations for purchasing package	30 days	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days	840	842	
842	842	5.22.4.3.3	Acceptance of conforming quotation	30 days	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days	841	855	
843	843	5.22.5	**Design Submissions for Temporary Chemical Dosing System**	**275 days**	**Tue 28/07/20**	**Wed 28/04/21**	**Tue 28/07/20**	**Wed 28/04...**	**75 days**			
844	844	5.22.5.1	Electrical schematic drawings for Temporary Chemical Dosing System	60 days	Tue 28/07/20	Fri 25/09/20	Tue 28/07/20	Fri 25/09/20	0 days		827FF	
845	845	5.22.5.2	CDS081-6 - Civil and dimensional requirements drawings for Temporar	70 days	Fri 28/08/20	Thu 05/11/20	Fri 28/08/20	Thu 05/11/20	0 days		827FF	
846	846	5.22.5.3	CDS029 - Detailed Design for Electrical Installations for Temporary Che	90 edays	Thu 28/01/21	Wed 28/04/21	Thu 28/01/21	Wed 28/04/...	75 edays	834	862,828FF	
847	847	5.22.6	**Manufacturing and Delivery of Plant & Materials**	**416 days**	**Fri 29/01/21**	**Sun 20/03/22**	**Fri 29/01/21**	**Sun 20/03/22**	**507 days**			
848	848	5.22.6.1	**Chemical Storage Tanks, EQT025**	**416 days**	**Fri 29/01/21**	**Sun 20/03/22**	**Fri 29/01/21**	**Sun 20/03/22**	**507 days**			
849	849	5.22.6.1.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Fri 29/01/21	Tue 27/07/21	Fri 29/01/21	Tue 27/07/21	191 days	834	850	
850	850	5.22.6.1.2	Shipping and Delivery of Plant to site	45 days	Fri 04/02/22	Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	20 days	849,858FF-6	861	
851	851	5.22.6.2	**Chemical Dosing Pumps, EQT027**	**386 days**	**Sun 28/02/21**	**Sun 20/03/22**	**Sun 28/02/21**	**Sun 20/03/22**	**507 days**			
852	852	5.22.6.2.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Sun 28/02/21	Thu 26/08/21	Sun 28/02/21	Thu 26/08/21	161 days	838	853	
853	853	5.22.6.2.2	Shipping and Delivery of Plant to site	45 days	Fri 04/02/22	Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	20 days	852,858FF-6	861	
854	854	5.22.6.3	**Chemical Transfer Pumps, EQT026**	**416 days**	**Fri 29/01/21**	**Sun 20/03/22**	**Fri 29/01/21**	**Sun 20/03/22**	**507 days**			
855	855	5.22.6.3.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Fri 29/01/21	Tue 27/07/21	Fri 29/01/21	Tue 27/07/21	191 days	842	856	
856	856	5.22.6.3.2	Shipping and Delivery of Plant to site	45 days	Fri 04/02/22	Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	20 days	855,858FF-6	861	
857	857	5.22.7	**Site Installation Work**	**361 days**	**Sat 09/04/22**	**Wed 05/04/23**	**Sat 09/04/22**	**Wed 05/04...**	**313 days**			
858	858	5.22.7.1	Tentative Civil Handover Date, Temporary Chemical Dosing (Rev. 5)	1 day	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days		850FF-60 edays,853FF-60	
859	859	5.22.7.2	Tentative Civil Handover Date, Chemical Pipe Trench (by others)	1 day	Sun 01/05/22	Sun 01/05/22	Sun 01/05/22	Sun 01/05/22	51 days		861FF+50 days	
860	860	5.22.7.3	**Commencement of E&M Installation at Temporary Chemical Dosing S**	**361 days**	**Sat 09/04/22**	**Wed 05/04/23**	**Sat 09/04/22**	**Wed 05/04...**	**313 days**			
861	861	5.22.7.3.1	Mechanical Installations for E&M Equip. for Chemical Dosing System	90 edays	Sat 09/04/22	Fri 08/07/22	Sat 09/04/22	Fri 08/07/22	0 edays	859FF+50 d	862SS+30 edays,863	ME - D x 2~4 men
862	862	5.22.7.3.2	Electrical Installations for E&M Equip. for Chemical Dosing System	90 edays	Mon 09/05/22	Sun 07/08/22	Mon 09/05/22	Sun 07/08/22	0 edays	861SS+30 e	863	EE - A x 4~6 men
863	863	5.22.7.3.3	Site Acceptance Test for E&M Equip for Chemical Dosing System	30 edays	Sun 07/08/22	Tue 06/09/22	Sun 07/08/22	Tue 06/09/22	174 edays	861,862	864	
864	864	5.22.7.3.4	System Commissioning for E&M Equip for Chemical Dosing System	30 edays	Mon 27/02/23	Wed 29/03/23	Mon 27/02/23	Wed 29/03/...	0 edays	863,871FF	865	
865	865	5.22.7.3.5	Risk Allowances for Completion of Processing Plant at Chemical Dosi	7 edays	Wed 29/03/23	Wed 05/04/23	Wed 29/03/23	Wed 05/04/...	308.63 ed...	864	1271	
866	866	5.22.7.3.6	**Building Services Installations at Temp. Chemical Dosing System ar**	**314 days**	**Fri 20/05/22**	**Wed 29/03/23**	**Fri 20/05/22**	**Wed 29/03...**	**313 days**			
867	867	5.22.7.3.6.1	Lighting and Power Distribution System, Temp. Chem	90 days	Fri 20/05/22	Wed 17/08/22	Fri 20/05/22	Wed 17/08/...	0 days	858	871,868	BS - A x 4~6 men
868	868	5.22.7.3.6.2	Fire Services Installation, DG Stores, Temp. Chem	90 days	Thu 18/08/22	Tue 15/11/22	Thu 18/08/22	Tue 15/11/22	0 days	867	1207,1208,871,869	FS - A x 4~6 men
869	869	5.22.7.3.6.3	Lightning Protection System, Temp. Chem	30 days	Wed 16/11/22	Thu 15/12/22	Wed 16/11/22	Thu 15/12/22	0 days	868	870	EE - D x 4~6 men
870	870	5.22.7.3.6.4	Mechanical Ventilation System, Temp. Chem	14 days	Fri 16/12/22	Thu 29/12/22	Fri 16/12/22	Thu 29/12/22	0 days	869	871	MVAC - A x 4~6 men
871	871	5.22.7.3.6.5	Testing and Commissioning of Building Services Installations, Tem	90 days	Fri 30/12/22	Wed 29/03/23	Fri 30/12/22	Wed 29/03/...	0 days	867,868,87	864FF	BS - C x 2~4 men
872	872	5.23	**Emergency Generator House, Portion B7 & B-7B (PS 6B.6.6)**	**1279 days**	**Thu 01/10/20**	**Mon 01/04/24**	**Thu 01/10/20**	**Mon 01/04...**	**0 days**			
873	873	5.23.1	Planned Key Date Completion Date - KD1B, Emergency Generator House	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	877FF		
874	874	5.23.2	Planned Sectional Completion Date - Section 1, Emergency Generator Hou	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	878FF,879FF		
875	875	5.23.3	Planned Sectional Completion Date - Section 2, Emergency Generator Hou	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days	892FF		
876	876	5.23.4	**Design Submissions for Emergency Generator Set**	**252 days**	**Thu 01/10/20**	**Thu 10/06/21**	**Thu 01/10/20**	**Thu 10/06/21**	**33 days**			



Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

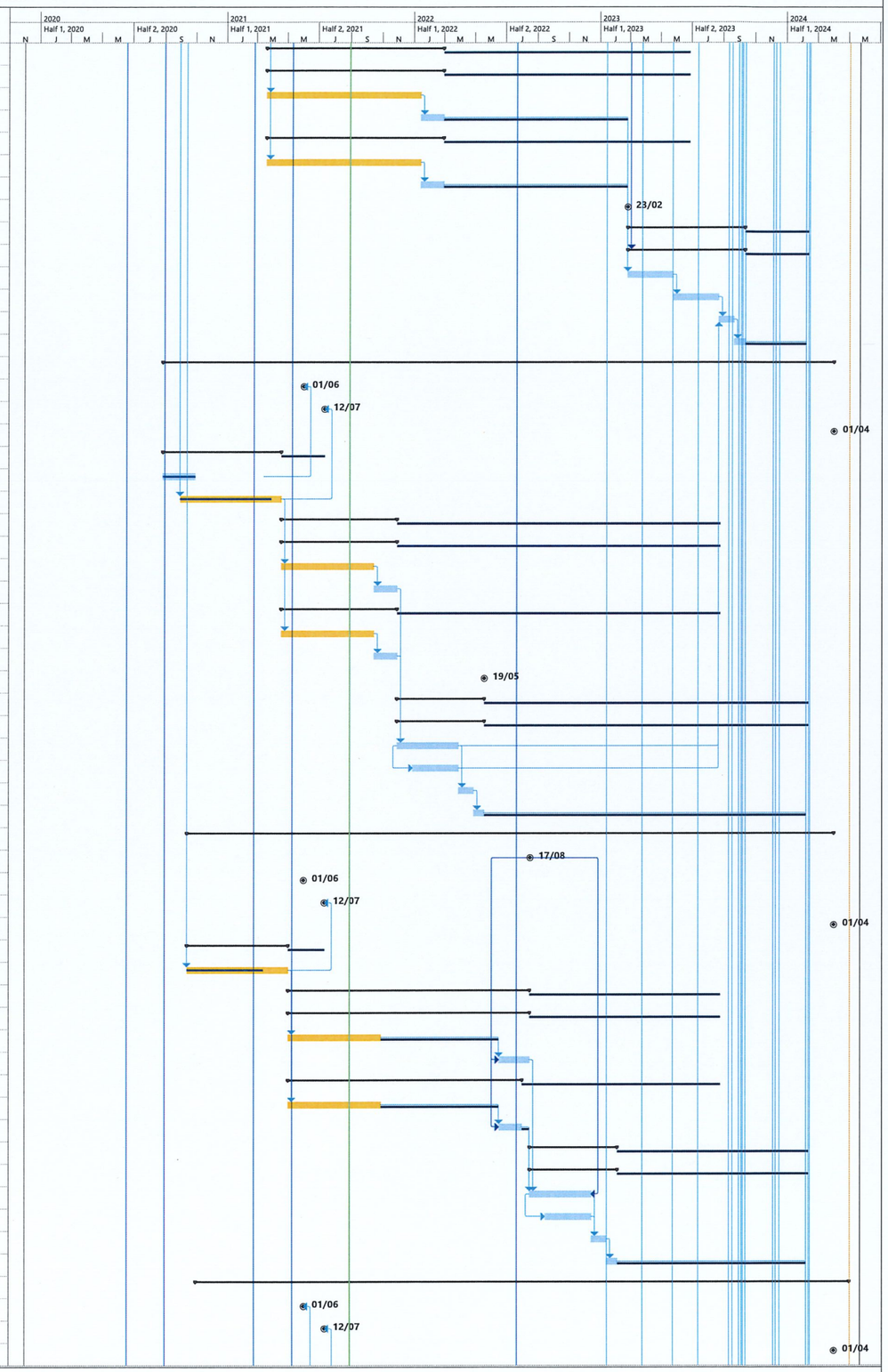
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
877	877	5.23.4.1	CDS081-10 - Civil and dimensional requirements drawings for Emergen	90 days	Fri 01/01/21	Wed 31/03/21	Fri 01/01/21	Wed 31/03/...	0 days		873FF	
878	878	5.23.4.2	CDS061 - Detailed Design for Emergency Generator Set	150 edays	Thu 01/10/20	Sun 28/02/21	Thu 01/10/20	Sun 28/02/21	134.38 ed...		874FF	
879	879	5.23.4.3	CDS034-6 - Detailed Design for Electrical Installations BS at Emergency	90 edays	Fri 12/03/21	Thu 10/06/21	Fri 12/03/21	Thu 10/06/21	0 edays	136	881,886,874FF	
880	**880**	**5.23.5**	**Manufacturing and Delivery of Plant & Materials**	**285 days**	**Thu 10/06/21**	**Mon 21/03/22**	**Thu 10/06/21**	**Mon 21/03...**	**616 days**			
881	881	5.23.5.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Thu 10/06/21	Fri 04/02/22	Thu 10/06/21	Fri 04/02/22	0 days	879	882	
882	882	5.23.5.2	Shipping and Delivery of Plant to Site	45 days	Sat 05/02/22	Mon 21/03/22	Sat 05/02/22	Mon 21/03/...	589 days	881,884FF-6	887	
883	**883**	**5.23.6**	**Site Installation Work**	**1000 days**	**Thu 10/06/21**	**Tue 05/03/24**	**Thu 10/06/21**	**Tue 05/03/24**	**27 days**			
884	884	5.23.6.1	Tentative Civil Handover Date, Emergency Generator House (Rev. 5)	1 day	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	1 day		861FF+50 days,882FF-60	
885	**885**	**5.23.6.2**	**Commencement of E&M Installation at Emergency Generator House**	**1000 days**	**Thu 10/06/21**	**Tue 05/03/24**	**Thu 10/06/21**	**Tue 05/03/24**	**27 days**			
886	886	5.23.6.2.1	Application for EPD's Approval for Installation of Diesel Engine Gene	21 days	Thu 10/06/21	Wed 30/06/21	Thu 10/06/21	Wed 30/06/...	853 days	879	887	
887	887	5.23.6.2.2	Installation and SAT of Emergency Power Generator and associated	60 days	Wed 01/11/23	Sat 30/12/23	Wed 01/11/23	Sat 30/12/23	0 days	886,882	889	GS - A x 4 men
888	**888**	**5.23.6.2.3**	**Building Services Installation at Emergency Generator House**	**66 days**	**Sun 31/12/23**	**Tue 05/03/24**	**Sun 31/12/23**	**Tue 05/03/24**	**27 days**			
889	889	5.23.6.2.3.1	Fire Services Installation, GH	30 days	Sun 31/12/23	Mon 29/01/24	Sun 31/12/23	Mon 29/01/...	0 days	887	890	FS - A x 4~6 men
890	890	5.23.6.2.3.2	Mechanical Ventilation System, GH	14 days	Tue 30/01/24	Mon 12/02/24	Tue 30/01/24	Mon 12/02/...	0 days	889	891	MVAC - A x 4~6 men
891	891	5.23.6.2.3.3	Lightning Protection System, GH	15 days	Tue 13/02/24	Tue 27/02/24	Tue 13/02/24	Tue 27/02/24	0 days	890	892	EE - D x 4~6 men
892	892	5.23.6.2.3.4	Testing and Commissioning of Building Services Installation, GH	7 days	Wed 28/02/24	Tue 05/03/24	Wed 28/02/24	Tue 05/03/24	27 days	891	875FF	BS - A x 4~6 men
893	**893**	**5.24**	**Deodorization System, DOU 1, Portion B7 & B-7B (PS 6B.2.6)**	**1583 days**	**Mon 02/12/19**	**Mon 01/04/24**	**Mon 02/12/19**	**Mon 01/04...**	**0 days**			
894	894	5.24.1	Planned Key Date Completion Date - KD1B, DOU 1	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	907FF,908FF		
895	895	5.24.2	Planned Sectional Completion Date - Section 1, DOU 1	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	909FF		
896	896	5.24.3	Planned Sectional Completion Date - Section 2, DOU 1	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days			
897	**897**	**5.24.4**	**Selection of Plant and Materials**	**485 days**	**Mon 02/12/19**	**Tue 30/03/21**	**Mon 02/12/19**	**Tue 30/03/21**	**90 days**			
898	**898**	**5.24.4.1**	**DOU - biotrickling filter (DOU No. 1), C11, ref. EQT001**	**194 days**	**Mon 02/12/19**	**Fri 12/06/20**	**Mon 02/12/19**	**Fri 12/06/20**	**0 days**			
899	899	5.24.4.1.1	Submission for acceptance of purchasing package	120 days	Mon 02/12/19	Mon 30/03/20	Mon 02/12/19	Mon 30/03/...	0 days		900	
900	900	5.24.4.1.2	Invitation of quotations for purchasing package	60 days	Tue 31/03/20	Fri 29/05/20	Tue 31/03/20	Fri 29/05/20	0 days	899	901	
901	901	5.24.4.1.3	Acceptance of conforming quotation (Completed)	14 days	Sat 30/05/20	Fri 12/06/20	Sat 30/05/20	Fri 12/06/20	0 days	900	909	
902	**902**	**5.24.4.2**	**DOU - FRP air ductwork, C11, EQT047**	**120 days**	**Tue 01/12/20**	**Tue 30/03/21**	**Tue 01/12/20**	**Tue 30/03/21**	**90 days**			
903	903	5.24.4.2.1	Submission for acceptance of purchasing package	60 days	Tue 01/12/20	Fri 29/01/21	Tue 01/12/20	Fri 29/01/21	0 days		904	
904	904	5.24.4.2.2	Invitation of quotations for purchasing package	30 days	Sat 30/01/21	Sun 28/02/21	Sat 30/01/21	Sun 28/02/21	0 days	903	905	
905	905	5.24.4.2.3	Acceptance of conforming quotation	30 days	Mon 01/03/21	Tue 30/03/21	Mon 01/03/21	Tue 30/03/21	0 days	904	909	
906	**906**	**5.24.5**	**Design Submissions for DOU No. 1**	**359 days**	**Wed 15/07/20**	**Thu 08/07/21**	**Wed 15/07/20**	**Thu 08/07/21**	**4 days**			
907	907	5.24.5.1	Electrical schematic drawings for Deodorisation Systems	90 days	Wed 15/07/20	Mon 12/10/20	Wed 15/07/20	Mon 12/10/...	0 days		894FF	
908	908	5.24.5.2	CDS081-7 - Civil and dimensional requirements drawings for DOU No. 1	70 days	Fri 28/08/20	Thu 05/11/20	Fri 28/08/20	Thu 05/11/20	0 days		894FF	
909	909	5.24.5.3	CDS007-1 - Detailed Design for Deodorisation System, DOU No. 1	100 edays	Tue 30/03/21	Thu 08/07/21	Tue 30/03/21	Thu 08/07/21	0.63 edays	901,905	912,915,895FF	
910	**910**	**5.24.6**	**Manufacturing and Delivery of Plant & Materials**	**299 days**	**Fri 09/07/21**	**Tue 03/05/22**	**Fri 09/07/21**	**Tue 03/05/22**	**479 days**			
911	**911**	**5.24.6.1**	**DOU 1**	**299 days**	**Fri 09/07/21**	**Tue 03/05/22**	**Fri 09/07/21**	**Tue 03/05/22**	**479 days**			
912	912	5.24.6.1.1	Manufacturing and Factory Acceptance Test of Plant	240 days	Fri 09/07/21	Sat 05/03/22	Fri 09/07/21	Sat 05/03/22	14 days	909	913	
913	913	5.24.6.1.2	Shipping and Delivery of Plant to site	45 days	Sun 20/03/22	Tue 03/05/22	Sun 20/03/22	Tue 03/05/22	45 days	912,918SS-6	921	
914	**914**	**5.24.6.2**	**FRP Air Ductwork**	**299 days**	**Fri 09/07/21**	**Tue 03/05/22**	**Fri 09/07/21**	**Tue 03/05/22**	**479 days**			
915	915	5.24.6.2.1	Manufacturing and Factory Acceptance Test of Plant	200 days	Fri 09/07/21	Mon 24/01/22	Fri 09/07/21	Mon 24/01/...	54 days	909	916	
916	916	5.24.6.2.2	Shipping and Delivery of Plant to Site	45 days	Sun 20/03/22	Tue 03/05/22	Sun 20/03/22	Tue 03/05/22	45 days	915,918SS-6	921	
917	**917**	**5.24.7**	**Site Installation Work**	**201 days**	**Thu 19/05/22**	**Mon 05/12/22**	**Thu 19/05/22**	**Mon 05/12...**	**434 days**			
918	918	5.24.7.1	Tentative Civil Handover, DOU 1 (Rev. 5)	1 day	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days		921FF+45 days,913SS-60	
919	919	5.24.7.2	Tentative Civil Handover Date, underground air pipework for DOU 1 (b	1 day	Mon 01/08/22	Mon 01/08/22	Mon 01/08/22	Mon 01/08/...	30 days		921FF+45 days	
920	**920**	**5.24.7.3**	**Commencement of E&M Installation at DOU 1**	**171 days**	**Fri 17/06/22**	**Mon 05/12/22**	**Fri 17/06/22**	**Mon 05/12...**	**434 days**			
921	921	5.24.7.3.1	Mechanical Installations for DOU 1	90 edays	Fri 17/06/22	Thu 15/09/22	Fri 17/06/22	Thu 15/09/22	0 edays	919FF+45 d	922SS+30 edays,923	ME - F x 4~6 men
922	922	5.24.7.3.2	Electrical Installations for DOU 1	90 edays	Sun 17/07/22	Sat 15/10/22	Sun 17/07/22	Sat 15/10/22	0 edays	921SS+30 e	923	EE - C x 4~6 men
923	923	5.24.7.3.3	Site Acceptance Test for DOU1	30 edays	Sat 15/10/22	Mon 14/11/22	Sat 15/10/22	Mon 14/11/...	0 edays	921,922	924	
924	924	5.24.7.3.4	System Commissioning for DOU 1	21 edays	Mon 14/11/22	Mon 05/12/22	Mon 14/11/22	Mon 05/12/...	429.63 ed...	923	1271	
925	**925**	**5.25**	**Deodorization System, DOU 2A, Portion B-4 (PS 6B.2.6)**	**1583 days**	**Mon 02/12/19**	**Mon 01/04/24**	**Mon 02/12/19**	**Mon 01/04...**	**0 days**			
926	926	5.25.1	Planned Key Date Completion Date - KD1B, DOU 2A	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days			
927	927	5.25.2	Planned Sectional Completion Date - Section 1, DOU 2A	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	935FF		
928	928	5.25.3	Planned Sectional Completion Date - Section 2, DOU 2A	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days			
929	**929**	**5.25.4**	**Selection of Plant and Materials**	**194 days**	**Mon 02/12/19**	**Fri 12/06/20**	**Mon 02/12/19**	**Fri 12/06/20**	**0 days**			
930	**930**	**5.25.4.1**	**DOU - activated carbon filter (DOU No. 2A, No. 3A, No. 3B), C11, ref. I**	**194 days**	**Mon 02/12/19**	**Fri 12/06/20**	**Mon 02/12/19**	**Fri 12/06/20**	**0 days**			
931	931	5.25.4.1.1	Submission for acceptance of purchasing package	120 days	Mon 02/12/19	Mon 30/03/20	Mon 02/12/19	Mon 30/03/...	0 days		932	
932	932	5.25.4.1.2	Invitation of quotations for purchasing package	60 days	Tue 31/03/20	Fri 29/05/20	Tue 31/03/20	Fri 29/05/20	0 days	931	933	
933	933	5.25.4.1.3	Acceptance of conforming quotation (Completed)	14 days	Sat 30/05/20	Fri 12/06/20	Sat 30/05/20	Fri 12/06/20	0 days	932	935,956,977	
934	**934**	**5.25.5**	**Design Submissions for DOU No. 2A**	**200 days**	**Tue 01/09/20**	**Sat 20/03/21**	**Tue 01/09/20**	**Sat 20/03/21**	**115 days**			
935	935	5.25.5.1	CDS007-2 - Detailed Design for Deodorisation System, DOU No. 2A	200 edays	Tue 01/09/20	Sat 20/03/21	Tue 01/09/20	Sat 20/03/21	0 edays	933	938,941,927FF	



Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

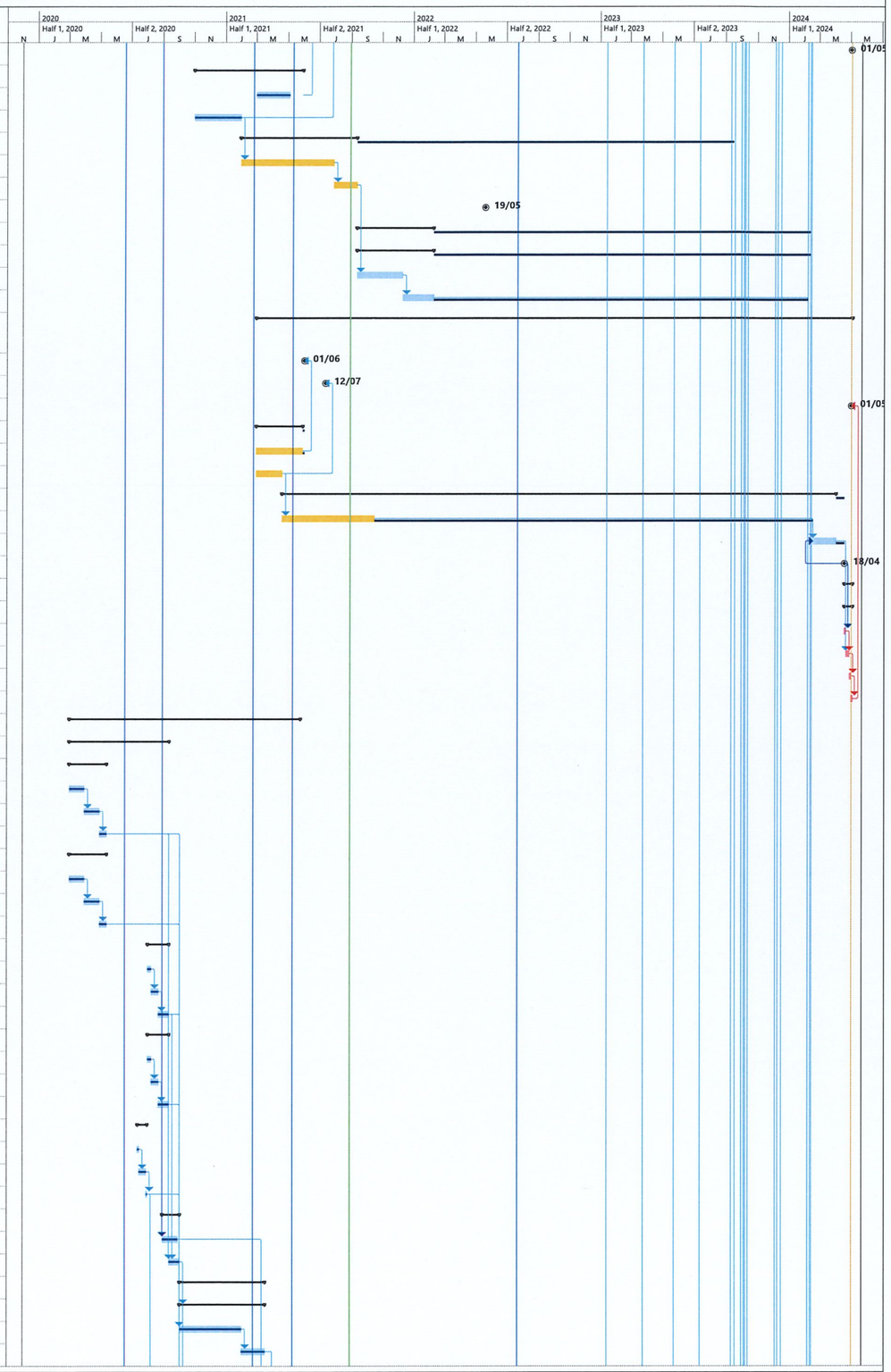
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
936	**936**	**5.25.6**	**Manufacturing and Delivery of Plant & Materials**	**345 days**	**Sat 20/03/21**	**Sun 27/02/22**	**Sat 20/03/21**	**Sun 27/02/22**	**484 days**			
937	**937**	**5.25.6.1**	**DOU 2A**	**345 days**	**Sat 20/03/21**	**Sun 27/02/22**	**Sat 20/03/21**	**Sun 27/02/22**	**484 days**			
938	938	5.25.6.1.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Sat 20/03/21	Thu 13/01/22	Sat 20/03/21	Thu 13/01/22	0 days	935	939	
939	939	5.25.6.1.2	Shipping and Delivery of Plant to site	45 days	Fri 14/01/22	Sun 27/02/22	Fri 14/01/22	Sun 27/02/22	361 days	938	946	
940	**940**	**5.25.6.2**	**FRP Air Ductwork**	**345 days**	**Sat 20/03/21**	**Sun 27/02/22**	**Sat 20/03/21**	**Sun 27/02/22**	**484 days**			
941	941	5.25.6.2.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Sat 20/03/21	Thu 13/01/22	Sat 20/03/21	Thu 13/01/22	0 days	935	942	
942	942	5.25.6.2.2	Shipping and Delivery of Plant to site	45 days	Fri 14/01/22	Sun 27/02/22	Fri 14/01/22	Sun 27/02/22	361 days	941	946	
943	943	5.25.7	Tentative Civil Handover, DOU 2A (Rev. 5)	1 day	Thu 23/02/23	Thu 23/02/23	Thu 23/02/23	Thu 23/02/23	0 days			
944	**944**	**5.25.8**	**Site Installation Work**	**231 days**	**Thu 23/02/23**	**Thu 12/10/23**	**Thu 23/02/23**	**Thu 12/10/23**	**123 days**			
945	**945**	**5.25.8.1**	**Commencement of E&M Installation at DOU 2A**	**231 days**	**Thu 23/02/23**	**Thu 12/10/23**	**Thu 23/02/23**	**Thu 12/10/23**	**123 days**	**565**		
946	946	5.25.8.1.1	Mechanical Installations for DOU 2A	90 edays	Thu 23/02/23	Wed 24/05/23	Thu 23/02/23	Wed 24/05/...	0 edays	939,942	947	ME - F x 4~6 men
947	947	5.25.8.1.2	Electrical Installations for DOU 2A	90 edays	Wed 24/05/23	Tue 22/08/23	Wed 24/05/23	Tue 22/08/23	0 edays	946	948	EE - C x 4~6 men
948	948	5.25.8.1.3	Site Acceptance Test for E&M Equip for DOU 2A	30 edays	Tue 22/08/23	Thu 21/09/23	Tue 22/08/23	Thu 21/09/23	0 edays	967,968,947	949	
949	949	5.25.8.1.4	System Commissioning Test for DOU 2A	21 edays	Thu 21/09/23	Thu 12/10/23	Thu 21/09/23	Thu 12/10/23	118.63 ed...	948	1271	
950	**950**	**5.26**	**Deodorization System, DOU 3A, Portion B7 & B-7B (PS 6B.2.6)**	**1313 days**	**Fri 28/08/20**	**Mon 01/04/24**	**Fri 28/08/20**	**Mon 01/04...**	**0 days**			
951	951	5.26.1	Planned Key Date Completion Date - KD1B, DOU 3A	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	955FF		
952	952	5.26.2	Planned Sectional Completion Date - Section 1, DOU 3A	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	956FF		
953	953	5.26.3	Planned Sectional Completion Date - Section 2, DOU 3A	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days			
954	**954**	**5.26.4**	**Design Submissions for DOU No. 3A**	**234 days**	**Fri 28/08/20**	**Mon 19/04/21**	**Fri 28/08/20**	**Mon 19/04...**	**85 days**			
955	955	5.26.4.1	CDS081-8 - Civil and dimensional requirements drawings for DOU No. 3	200 days	Fri 28/08/20	Mon 15/03/21	Fri 28/08/20	Mon 15/03/...	0 days		951FF	
956	956	5.26.4.2	CDS007-3 - Detailed Design for Deodorisation System, DOU No. 3A	200 edays	Thu 01/10/20	Mon 19/04/21	Thu 01/10/20	Mon 19/04/...	0 edays	933	959,962,952FF	
957	**957**	**5.26.5**	**Manufacturing and Delivery of Plant & Materials**	**225 days**	**Mon 19/04/21**	**Tue 30/11/21**	**Mon 19/04/21**	**Tue 30/11/21**	**634 days**			
958	**958**	**5.26.5.1**	**DOU 3A**	**225 days**	**Mon 19/04/21**	**Tue 30/11/21**	**Mon 19/04/21**	**Tue 30/11/21**	**634 days**			
959	959	5.26.5.1.1	Manufacturing and Factory Acceptance Test of Plant	180 edays	Mon 19/04/21	Sat 16/10/21	Mon 19/04/21	Sat 16/10/21	0 edays	956	960	
960	960	5.26.5.1.2	Shipping and Delivery of Plant to Site	45 edays	Sat 16/10/21	Tue 30/11/21	Sat 16/10/21	Tue 30/11/21	0 edays	959	967	
961	**961**	**5.26.5.2**	**FRP Air Ductwork**	**225 days**	**Mon 19/04/21**	**Tue 30/11/21**	**Mon 19/04/21**	**Tue 30/11/21**	**634 days**			
962	962	5.26.5.2.1	Manufacturing and Factory Acceptance Test of Plant	180 edays	Mon 19/04/21	Sat 16/10/21	Mon 19/04/21	Sat 16/10/21	0 edays	956	963	
963	963	5.26.5.2.2	Shipping and Delivery of Plant to Site	45 edays	Sat 16/10/21	Tue 30/11/21	Sat 16/10/21	Tue 30/11/21	0 edays	962	967	
964	964	5.26.6	Tentative Civil Handover, DOU 3A (Rev. 5)	1 day	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days			
965	**965**	**5.26.7**	**Site Installation Work**	**171 days**	**Tue 30/11/21**	**Fri 20/05/22**	**Tue 30/11/21**	**Fri 20/05/22**	**634 days**			
966	**966**	**5.26.7.1**	**Commencement of E&M Installation at DOU 3A**	**171 days**	**Tue 30/11/21**	**Fri 20/05/22**	**Tue 30/11/21**	**Fri 20/05/22**	**634 days**			
967	967	5.26.7.1.1	Mechanical Installations for DOU 3A	120 edays	Tue 30/11/21	Wed 30/03/22	Tue 30/11/21	Wed 30/03/...	0 edays	963,960	968SS+30 edays,969,948	ME - F x 4~6 men
968	968	5.26.7.1.2	Electrical Installations for DOU 3A	90 edays	Thu 30/12/21	Wed 30/03/22	Thu 30/12/21	Wed 30/03/...	0 edays	967SS+30 e	969,948	EE - D x 4~6 men
969	969	5.26.7.1.3	Site Acceptance Test for E&M Equip for DOU 3A	30 edays	Wed 30/03/22	Fri 29/04/22	Wed 30/03/22	Fri 29/04/22	0 edays	967,968	970	
970	970	5.26.7.1.4	System Commissioning Test for DOU 3A	21 edays	Fri 29/04/22	Fri 20/05/22	Fri 29/04/22	Fri 20/05/22	629 edays	969	1271	
971	**971**	**5.27**	**Deodorization System, DOU 3B, Portion B-5B (PS 6B.2.6)**	**1265 days**	**Thu 15/10/20**	**Mon 01/04/24**	**Thu 15/10/20**	**Mon 01/04...**	**0 days**			
972	972	5.27.1	Tentative Civil Handover Date, underground air pipework for DOU 3B (by	1 day	Wed 17/08/22	Wed 17/08/22	Wed 17/08/22	Wed 17/08/...	0 days		987FF+30 days,981SS-60	
973	973	5.27.2	Planned Key Date Completion Date - KD1B, DOU 3B	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days			
974	974	5.27.3	Planned Sectional Completion Date - Section 1, DOU 3B	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	977FF		
975	975	5.27.4	Planned Sectional Completion Date - Section 2, DOU 3B	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days			
976	**976**	**5.27.5**	**Design Submissions for DOU No. 3B**	**200 days**	**Thu 15/10/20**	**Mon 03/05/21**	**Thu 15/10/20**	**Mon 03/05...**	**71 days**			
977	977	5.27.5.1	CDS007-4 - Detailed Design for Deodorisation System, DOU No. 3B	200 edays	Thu 15/10/20	Mon 03/05/21	Thu 15/10/20	Mon 03/05/...	0 edays	933	980,983,974FF	
978	**978**	**5.27.6**	**Manufacturing and Delivery of Plant & Materials**	**471 days**	**Mon 03/05/21**	**Wed 17/08/22**	**Mon 03/05/21**	**Wed 17/08...**	**374 days**			
979	**979**	**5.27.6.1**	**DOU 3B**	**471 days**	**Mon 03/05/21**	**Wed 17/08/22**	**Mon 03/05/21**	**Wed 17/08...**	**374 days**			
980	980	5.27.6.1.1	Manufacturing and Factory Acceptance Test of Plant	180 edays	Mon 03/05/21	Sat 30/10/21	Mon 03/05/21	Sat 30/10/21	231 edays	977	981	
981	981	5.27.6.1.2	Shipping and Delivery of Plant to Site	60 edays	Sat 18/06/22	Wed 17/08/22	Sat 18/06/22	Wed 17/08/...	0 edays	980,972SS-6	987	
982	**982**	**5.27.6.2**	**FRP Air Ductwork**	**456 days**	**Mon 03/05/21**	**Tue 02/08/22**	**Mon 03/05/21**	**Tue 02/08/22**	**389 days**			
983	983	5.27.6.2.1	Manufacturing and Factory Acceptance Test of Plant	180 edays	Mon 03/05/21	Sat 30/10/21	Mon 03/05/21	Sat 30/10/21	231 edays	977	984	
984	984	5.27.6.2.2	Shipping and Delivery of Plant to Site	45 edays	Sat 18/06/22	Tue 02/08/22	Sat 18/06/22	Tue 02/08/22	15 edays	983,972SS-6	987	
985	**985**	**5.27.7**	**Site Installation Work**	**171 days**	**Wed 17/08/22**	**Sat 04/02/23**	**Wed 17/08/22**	**Sat 04/02/23**	**374 days**			
986	**986**	**5.27.7.1**	**Commencement of E&M Installation at DOU 3B**	**171 days**	**Wed 17/08/22**	**Sat 04/02/23**	**Wed 17/08/22**	**Sat 04/02/23**	**374 days**			
987	987	5.27.7.1.1	Mechanical Installations for DOU 3B	120 edays	Wed 17/08/22	Thu 15/12/22	Wed 17/08/22	Thu 15/12/22	0 edays	972FF+30 d	988SS+30 edays,989	ME - F x 4~6 men
988	988	5.27.7.1.2	Electrical Installations for DOU 3B	90 edays	Fri 16/09/22	Thu 15/12/22	Fri 16/09/22	Thu 15/12/22	0 edays	987SS+30 e	989	EE - D x 4~6 men
989	989	5.27.7.1.3	Site Acceptance Test for E&M Equip for DOU 3B	30 edays	Thu 15/12/22	Sat 14/01/23	Thu 15/12/22	Sat 14/01/23	0 edays	987,988	990	
990	990	5.27.7.1.4	System Commissioning Test for DOU 3B	21 edays	Sat 14/01/23	Sat 04/02/23	Sat 14/01/23	Sat 04/02/23	369 edays	989	1271	
991	**991**	**5.28**	**Flowmeter and Valve Chambers, Portion B7 & B-7B (PS 6B.2.13)**	**1278 days**	**Sun 01/11/20**	**Wed 01/05/24**	**Sun 01/11/20**	**Wed 01/05...**	**0 days**			
992	992	5.28.1	Planned Key Date Completion Date - KD1B, Chambers	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	997FF		
993	993	5.28.2	Planned Sectional Completion Date - Section 1, Chambers	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	998FF		
994	994	5.28.3	Planned Sectional Completion Date - Section 2, Chambers	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days			



Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

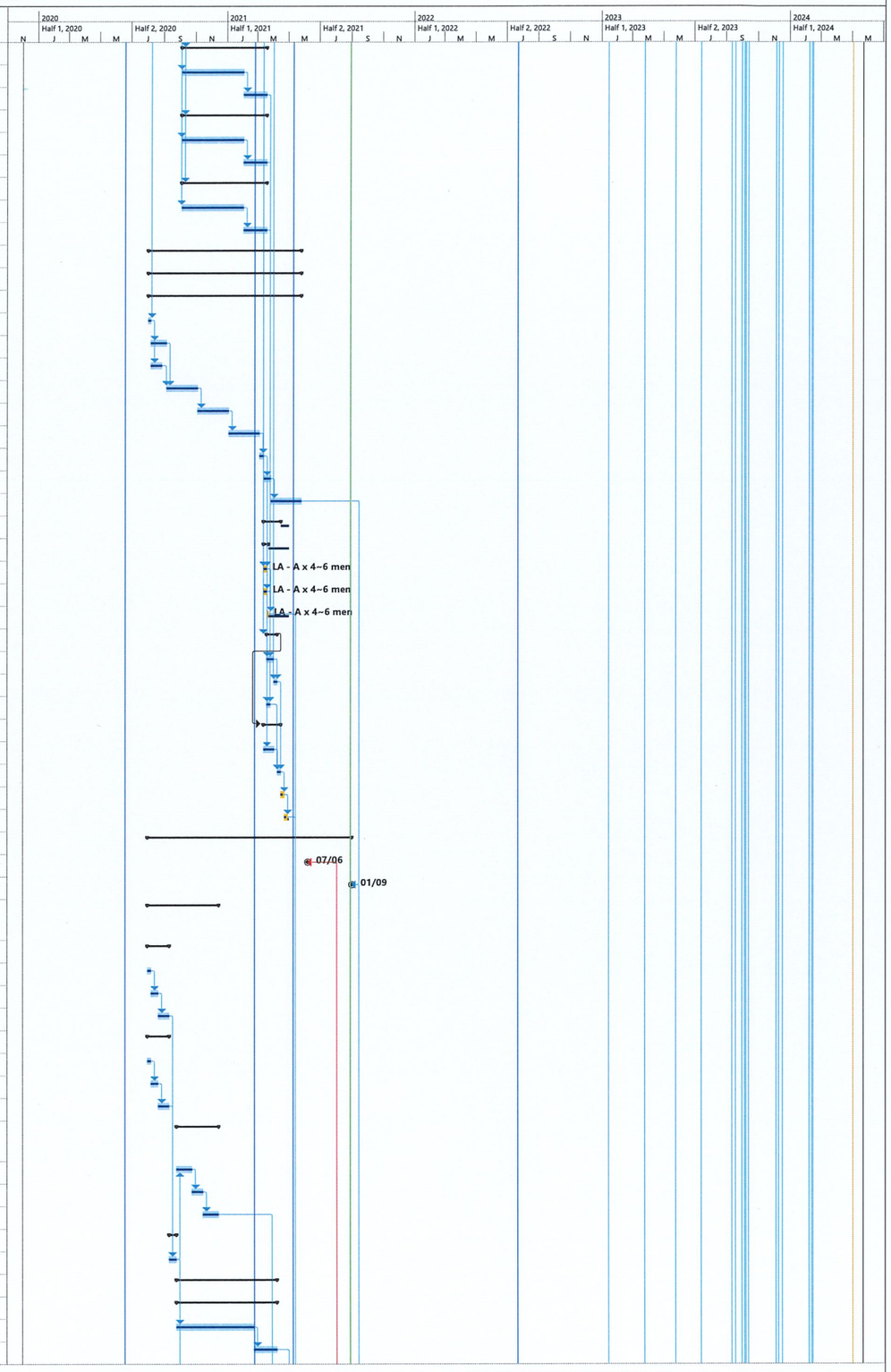
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
995	995	5.28.4	Planned Sectional Completion Date - Section 4, Chambers	0 days	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/...	0 days			
996	**996**	**5.28.5**	**Design Submissions for Valve and Flowmeter Chambers**	**210 days**	**Sun 01/11/20**	**Sat 29/05/21**	**Sun 01/11/20**	**Sat 29/05/21**	**0 days**			
997	997	5.28.5.1	CDS081-9 - Civil and dimensional requirements drawings for Valve and	90 days	Mon 01/03/21	Sat 29/05/21	Mon 01/03/21	Sat 29/05/21	0 days		992FF	
998	998	5.28.5.2	CDS018 - Detailed Design for Flowmeter and Valve Chambers	90 edays	Sun 01/11/20	Sat 30/01/21	Sun 01/11/20	Sat 30/01/21	0 edays		1000,993FF	
999	**999**	**5.28.6**	**Manufacturing and Delivery of Plant & Materials**	**225 days**	**Sat 30/01/21**	**Sat 11/09/21**	**Sat 30/01/21**	**Sat 11/09/21**	**734 days**			
1000	1000	5.28.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Sat 30/01/21	Wed 28/07/21	Sat 30/01/21	Wed 28/07/...	0 days	998	1001	
1001	1001	5.28.6.2	Shipping and Delivery of Plant to Site	45 days	Thu 29/07/21	Sat 11/09/21	Thu 29/07/21	Sat 11/09/21	0 days	1000	1005	
1002	1002	5.28.7	Tentative Civil Handover, Chambers (Rev. 5)	1 day	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days			
1003	**1003**	**5.28.8**	**Site Installation Work**	**150 days**	**Sun 12/09/21**	**Tue 08/02/22**	**Sun 12/09/21**	**Tue 08/02/22**	**734 days**			
1004	**1004**	**5.28.8.1**	**Commencement of Valves and Flowmeters Installation at Chambers**	**150 days**	**Sun 12/09/21**	**Tue 08/02/22**	**Sun 12/09/21**	**Tue 08/02/22**	**734 days**			
1005	1005	5.28.8.1.1	Installation of valves and flowmeters	90 days	Sun 12/09/21	Fri 10/12/21	Sun 12/09/21	Fri 10/12/21	0 days	1001	1006	ME - C x 4~6 men
1006	1006	5.28.8.1.2	cables laying and terminations	60 days	Sat 11/12/21	Tue 08/02/22	Sat 11/12/21	Tue 08/02/22	729 days	1005	1271	EE - A x 4~6 men
1007	**1007**	**5.29**	**Underground Pipework, Modification and Connection Works, Portion B-9B (PS 6B.2.22)**	**1161 days**	**Mon 01/03/21**	**Sat 04/05/24**	**Mon 01/03/21**	**Sat 04/05/24**	**0 days**			
1008	1008	5.29.1	Planned Key Date Completion Date - KD1B, UU	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	1012FF		
1009	1009	5.29.2	Planned Sectional Completion Date - Section 1, Underground Pipework	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	1013FF		
1010	1010	5.29.3	Planned Sectional Completion Date - Section 4, Underground Pipework	0 days	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/...	0 days	1023FF		
1011	**1011**	**5.29.4**	**Design Submissions**	**90 days**	**Mon 01/03/21**	**Sun 30/05/21**	**Mon 01/03/21**	**Sun 30/05/21**	**3 days**			
1012	1012	5.29.4.1	CDS015 - Detailed Design for Underground Pipework Modification and	90 edays	Mon 01/03/21	Sun 30/05/21	Mon 01/03/21	Sun 30/05/21	2.38 edays		1008FF	
1013	1013	5.29.4.2	CDS016 - Detailed Design for Temporary Pumping System for maintaini	50 edays	Mon 01/03/21	Tue 20/04/21	Mon 01/03/21	Tue 20/04/21	0 edays		1015,1009FF	
1014	**1014**	**5.29.5**	**Manufacturing and Delivery of Plant & Materials**	**1079 days**	**Tue 20/04/21**	**Tue 02/04/24**	**Tue 20/04/21**	**Tue 02/04/24**	**16 days**			
1015	1015	5.29.5.1	Manufacturing and Factory Acceptance Test of Plant	180 days	Tue 20/04/21	Sat 16/10/21	Tue 20/04/21	Sat 16/10/21	854 days	1013	1016	
1016	1016	5.29.5.2	Shipping and Delivery of Plant to Site	45 days	Sun 18/02/24	Tue 02/04/24	Sun 18/02/24	Tue 02/04/24	16 days	1015,1017S	1021	
1017	1017	5.29.6	Tentative Civil Handover, Road (Rev. 5)	1 day	Thu 18/04/24	Thu 18/04/24	Thu 18/04/24	Thu 18/04/24	0 days		1016SS-60 edays,1020	
1018	**1018**	**5.29.7**	**Site Installation**	**16 days**	**Fri 19/04/24**	**Sat 04/05/24**	**Fri 19/04/24**	**Sat 04/05/24**	**0 days**			
1019	**1019**	**5.29.7.1**	**Commencement of underground pipework modification and connection wor**	**16 days**	**Fri 19/04/24**	**Sat 04/05/24**	**Fri 19/04/24**	**Sat 04/05/24**	**0 days**			
1020	1020	5.29.7.1.1	Temporary Flow Diversion and Road Excavation Work	3 days	Fri 19/04/24	Sun 21/04/24	Fri 19/04/24	Sun 21/04/24	0 days	1017	1021	
1021	1021	5.29.7.1.2	Pipe Laying and connection works	7 days	Mon 22/04/24	Sun 28/04/24	Mon 22/04/24	Sun 28/04/24	0 days	1020,1016	1022	
1022	1022	5.29.7.1.3	Pressure Tests	3 days	Mon 29/04/24	Wed 01/05/24	Mon 29/04/24	Wed 01/05/24	0 days	1021	1023	
1023	1023	5.29.7.1.4	Make Good	3 days	Thu 02/05/24	Sat 04/05/24	Thu 02/05/24	Sat 04/05/24	0 days	1022	1010FF	
1024	**1024**	**5.30**	**Temporary Filtrate Lifting Well and Eq. Tank, Portion B-3B (PS 6B.2.16)**	**450 days**	**Mon 02/03/20**	**Tue 25/05/21**	**Mon 02/03/20**	**Tue 25/05/21**	**0 days**			
1025	**1025**	**5.30.1**	**Selection of Suppliers for major plant and materials and Civil Subcontrac**	**196 days**	**Mon 02/03/20**	**Sun 13/09/20**	**Mon 02/03/20**	**Sun 13/09/20**	**0 days**			
1026	**1026**	**5.30.1.1**	**Mis - filtrate lift pumps and filtrate transfer pumps, C11, ref. EQT011**	**73 days**	**Mon 02/03/20**	**Wed 13/05/20**	**Mon 02/03/20**	**Wed 13/05/20**	**0 days**			
1027	1027	5.30.1.1.1	Submission for acceptance of purchasing package	29 days	Mon 02/03/20	Mon 30/03/20	Mon 02/03/20	Mon 30/03/20	0 days		1028	
1028	1028	5.30.1.1.2	Invitation of quotations for purchasing package	30 days	Tue 31/03/20	Wed 29/04/20	Tue 31/03/20	Wed 29/04/20	0 days	1027	1029	
1029	1029	5.30.1.1.3	Acceptance of conforming quotation and acceptance for Manufacture (Com	14 days	Thu 30/04/20	Wed 13/05/20	Thu 30/04/20	Wed 13/05/20	0 days	1028	1048,1051	
1030	**1030**	**5.30.1.2**	**Mis - Instrumentations**	**73 days**	**Mon 02/03/20**	**Wed 13/05/20**	**Mon 02/03/20**	**Wed 13/05...**	**0 days**			
1031	1031	5.30.1.2.1	Submission for acceptance of purchasing package	29 days	Mon 02/03/20	Mon 30/03/20	Mon 02/03/20	Mon 30/03/...	0 days		1032	
1032	1032	5.30.1.2.2	Invitation of quotations for purchasing package	30 days	Tue 31/03/20	Wed 29/04/20	Tue 31/03/20	Wed 29/04/...	0 days	1031	1033	
1033	1033	5.30.1.2.3	Acceptance of conforming quotation and acceptance for Manufactur	14 days	Thu 30/04/20	Wed 13/05/20	Thu 30/04/20	Wed 13/05/...	0 days	1032	1048,1054	
1034	**1034**	**5.30.1.3**	**Mis - Pipework (To be provided by Mechanical Sub-Contactor)**	**42 days**	**Mon 03/08/20**	**Sun 13/09/20**	**Mon 03/08/20**	**Sun 13/09/20**	**0 days**			
1035	1035	5.30.1.3.1	Submission for acceptance of purchasing package	7 days	Mon 03/08/20	Sun 09/08/20	Mon 03/08/20	Sun 09/08/20	0 days		1036	
1036	1036	5.30.1.3.2	Invitation of quotations for purchasing package	14 days	Mon 10/08/20	Sun 23/08/20	Mon 10/08/20	Sun 23/08/20	0 days	1035	1037	
1037	1037	5.30.1.3.3	Acceptance of conforming quotation and acceptance for Manufactur	21 days	Mon 24/08/20	Sun 13/09/20	Mon 24/08/20	Sun 13/09/20	0 days	1036	1048,1057	
1038	**1038**	**5.30.1.4**	**Mis - Valve (To be provided by Mechanical Sub-Contractor)**	**42 days**	**Mon 03/08/20**	**Sun 13/09/20**	**Mon 03/08/20**	**Sun 13/09/20**	**0 days**			
1039	1039	5.30.1.4.1	Submission for acceptance of purchasing package	7 days	Mon 03/08/20	Sun 09/08/20	Mon 03/08/20	Sun 09/08/20	0 days		1040	
1040	1040	5.30.1.4.2	Invitation of quotations for purchasing package	14 days	Mon 10/08/20	Sun 23/08/20	Mon 10/08/20	Sun 23/08/20	0 days	1039	1041	
1041	1041	5.30.1.4.3	Acceptance of conforming quotation and acceptance for Manufactur	21 days	Mon 24/08/20	Sun 13/09/20	Mon 24/08/20	Sun 13/09/20	0 days	1040	1048,1060	
1042	**1042**	**5.30.1.5**	**Civil Work Subletting Package (Repeated WBS 5.13.17)**	**19 days**	**Tue 14/07/20**	**Sat 01/08/20**	**Tue 14/07/20**	**Sat 01/08/20**	**0 days**			
1043	1043	5.30.1.5.1	Submission for acceptance of subletting package	3 days	Tue 14/07/20	Thu 16/07/20	Tue 14/07/20	Thu 16/07/20	0 days		1044	
1044	1044	5.30.1.5.2	Invitation of tender for subletting package	14 days	Fri 17/07/20	Thu 30/07/20	Fri 17/07/20	Thu 30/07/20	0 days	1043	1045	
1045	1045	5.30.1.5.3	Acceptance of conforming quotation and acceptance for Manufactur	2 days	Fri 31/07/20	Sat 01/08/20	Fri 31/07/20	Sat 01/08/20	0 days	1044	1051,1054,1057,1060,10	
1046	**1046**	**5.30.2**	**Design Submissions for Temporary Filtrate Lifting Well and Eq. Tank**	**34 days**	**Tue 01/09/20**	**Sun 04/10/20**	**Tue 01/09/20**	**Sun 04/10/20**	**0 days**			
1047	1047	5.30.2.1	CDS050-5 - Detailed Design for Lifting Appliances - Temp. Filtrate Eq. Sy	30 edays	Tue 01/09/20	Thu 01/10/20	Tue 01/09/20	Thu 01/10/20	0 edays	116	1076	
1048	1048	5.30.2.2	Design submission for E&M Installation works for temp. filtrate eq. syst	21 days	Mon 14/09/20	Sun 04/10/20	Mon 14/09/20	Sun 04/10/20	0 days	1029,1033,1	1050,1056,1053,1059	
1049	**1049**	**5.30.3**	**Manufacturing and Delivery of Plant & Materials**	**165 days**	**Mon 05/10/20**	**Thu 18/03/21**	**Mon 05/10/20**	**Thu 18/03/21**	**0 days**			
1050	**1050**	**5.30.3.1**	**Filtrate Lift Pumps and Filtrate Transfer Pump, EQT011**	**165 days**	**Mon 05/10/20**	**Thu 18/03/21**	**Mon 05/10/20**	**Thu 18/03/21**	**0 days**	**1048**		
1051	1051	5.30.3.1.1	Manufacturing and Factory Acceptance Test of Plant	120 days	Mon 05/10/20	Mon 01/02/21	Mon 05/10/20	Mon 01/02/21	0 days	1045,1029	1052	
1052	1052	5.30.3.1.2	Shipping and Delivery of Plant to site (Delivered)	45 days	Tue 02/02/21	Thu 18/03/21	Tue 02/02/21	Thu 18/03/21	0 days	1051	1081	



Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

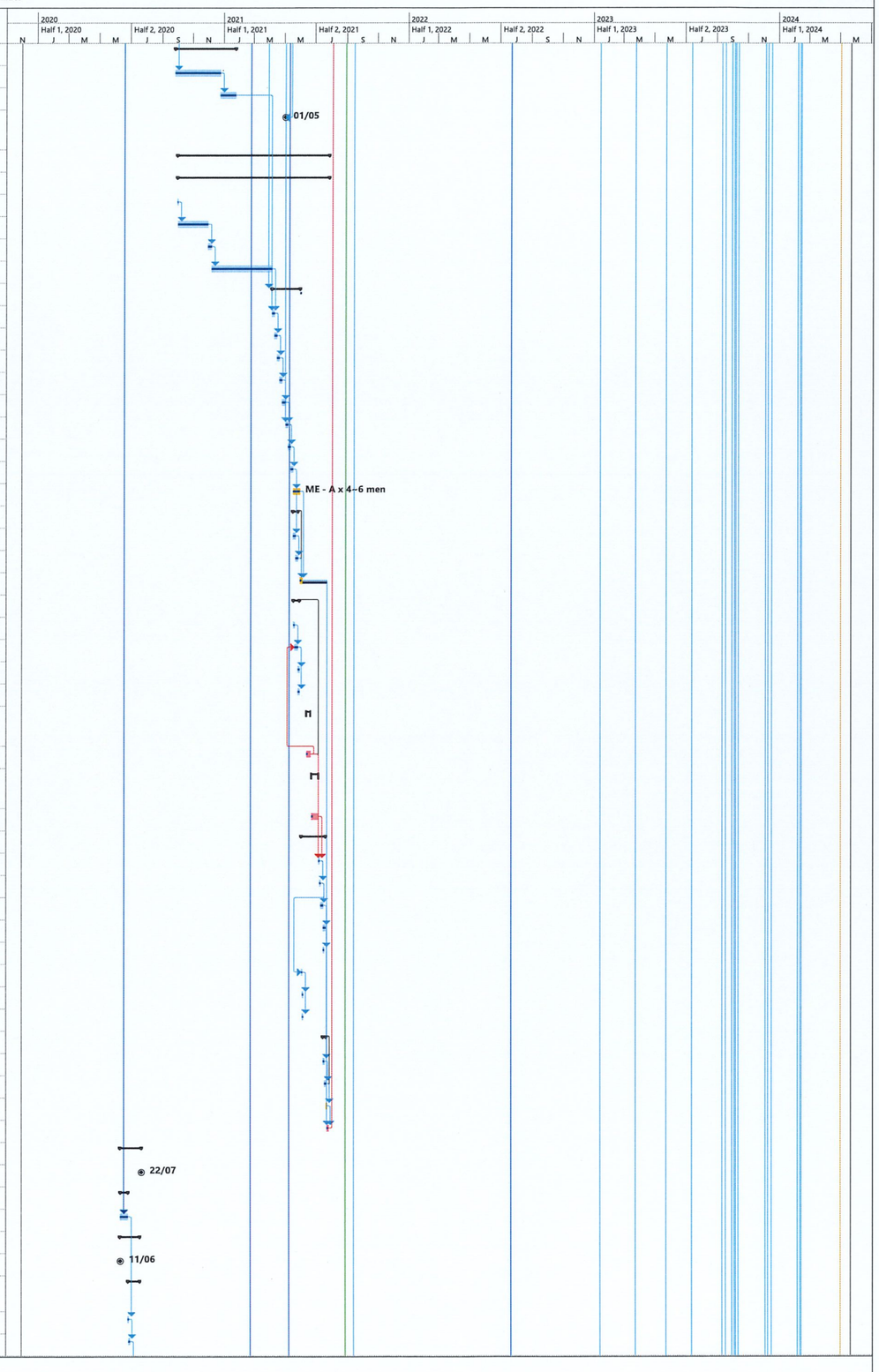
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
1053	**1053**	**5.30.3.2**	**Instrumentations**	**165 days**	**Mon 05/10/20**	**Thu 18/03/21**	**Mon 05/10/20**	**Thu 18/03/21**	**0 days**	**1048**		
1054	1054	5.30.3.2.1	Manufacturing and Factory Acceptance Test of Plant	120 days	Mon 05/10/20	Mon 01/02/21	Mon 05/10/20	Mon 01/02/...	0 days	1045,1033	1055	
1055	1055	5.30.3.2.2	Shipping and Delivery of Plant to site	45 days	Tue 02/02/21	Thu 18/03/21	Tue 02/02/21	Thu 18/03/21	0 days	1054	1082	
1056	**1056**	**5.30.3.3**	**Pipework**	**165 days**	**Mon 05/10/20**	**Thu 18/03/21**	**Mon 05/10/20**	**Thu 18/03/21**	**0 days**	**1048**		
1057	1057	5.30.3.3.1	Manufacturing and Factory Acceptance Test of Plant	120 days	Mon 05/10/20	Mon 01/02/21	Mon 05/10/20	Mon 01/02/...	0 days	1045,1037	1058	
1058	1058	5.30.3.3.2	Shipping and Delivery of Plant to site	45 days	Tue 02/02/21	Thu 18/03/21	Tue 02/02/21	Thu 18/03/21	0 days	1057	1080	
1059	**1059**	**5.30.3.4**	**Valve**	**165 days**	**Mon 05/10/20**	**Thu 18/03/21**	**Mon 05/10/20**	**Thu 18/03/21**	**0 days**	**1048**		
1060	1060	5.30.3.4.1	Manufacturing and Factory Acceptance Test of Plant	120 days	Mon 05/10/20	Mon 01/02/21	Mon 05/10/20	Mon 01/02/...	0 days	1045,1041	1061	
1061	1061	5.30.3.4.2	Shipping and Delivery of Plant to site	45 days	Tue 02/02/21	Thu 18/03/21	Tue 02/02/21	Thu 18/03/21	0 days	1060	1080	
1062	**1062**	**5.30.4**	**Site Installation Work**	**297 days**	**Sat 01/08/20**	**Tue 25/05/21**	**Sat 01/08/20**	**Tue 25/05/21**	**0 days**			
1063	**1063**	**5.30.4.1**	**Commencement of Civil Construction and E&M Installation at Temp. I**	**297 days**	**Sat 01/08/20**	**Tue 25/05/21**	**Sat 01/08/20**	**Tue 25/05/21**	**0 days**			
1064	**1064**	**5.30.4.1.1**	**Civil Construction Work**	**297 days**	**Sat 01/08/20**	**Tue 25/05/21**	**Sat 01/08/20**	**Tue 25/05/21**	**0 days**			
1065	1065	5.30.4.1.1.1	Civil on-site survey and report submission for acceptance	5 edays	Sat 01/08/20	Thu 06/08/20	Sat 01/08/20	Thu 06/08/20	0 edays	1045	1066,1067	
1066	1066	5.30.4.1.1.2	Civil structural design and drawing submission for acceptance	30 days	Fri 07/08/20	Sat 05/09/20	Fri 07/08/20	Sat 05/09/20	0 days	1065	1068	
1067	1067	5.30.4.1.1.3	Site Clearance, UU diversion and construction of U-channel	21 days	Fri 07/08/20	Thu 27/08/20	Fri 07/08/20	Thu 27/08/20	0 days	1065	1068	
1068	1068	5.30.4.1.1.4	ELS (Sheeting and Excavation)	60 days	Sun 06/09/20	Wed 04/11/20	Sun 06/09/20	Wed 04/11/...	0 days	1067,1066	1069	
1069	1069	5.30.4.1.1.5	Grouting Works	60 days	Thu 05/11/20	Sun 03/01/21	Thu 05/11/20	Sun 03/01/21	0 days	1068	1070	
1070	1070	5.30.4.1.1.6	RC structure works including cast-in items	60 days	Mon 04/01/21	Thu 04/03/21	Mon 04/01/21	Thu 04/03/21	0 days	1069	1079,1076,1071	
1071	1071	5.30.4.1.1.7	Removal Formwork and Flasework	8 days	Fri 05/03/21	Fri 12/03/21	Fri 05/03/21	Fri 12/03/21	0 days	1070	1076,1077,1080,1082,10	
1072	1072	5.30.4.1.1.8	Waterproofing	14 days	Sat 13/03/21	Fri 26/03/21	Sat 13/03/21	Fri 26/03/21	0 days	1071	1073	
1073	1073	5.30.4.1.1.9	Other architectual works and finishing works	60 days	Sat 27/03/21	Tue 25/05/21	Sat 27/03/21	Tue 25/05/21	0 days	1072	1090FF	
1074	**1074**	**5.30.4.1.2**	**E&M Installation Work**	**34 days**	**Sat 13/03/21**	**Thu 15/04/21**	**Sat 13/03/21**	**Thu 15/04/21**	**16 days**			
1075	**1075**	**5.30.4.1.2.**	**Installation of Lifting Appliances at Temporary Filtrate Lifting We**	**10 days**	**Sat 13/03/21**	**Mon 22/03/21**	**Sat 13/03/21**	**Mon 22/03...**	**40 days**			
1076	1076	5.30.4.1.2.1	GF MR LA-09-01 SWL 1t	7 days	Sat 13/03/21	Fri 19/03/21	Sat 13/03/21	Fri 19/03/21	0 days	1070,1047,1	1078	LA - A x 4~6 men
1077	1077	5.30.4.1.2.2	GF MR LA-09-02 SWL 1t	7 days	Sat 13/03/21	Fri 19/03/21	Sat 13/03/21	Fri 19/03/21	0 days	1071	1078	LA - A x 4~6 men
1078	1078	5.30.4.1.2.3	Site Acceptance test and loading test of LA	3 days	Sat 20/03/21	Mon 22/03/21	Sat 20/03/21	Mon 22/03/...	40 days	1076,1077	1113FF	LA - A x 4~6 men
1079	**1079**	**5.30.4.1.2.**	**Mechanical Installations for Temp. Filtrate Lifting Well and Eq. Ta**	**21 days**	**Fri 19/03/21**	**Thu 08/04/21**	**Fri 19/03/21**	**Thu 08/04/21**	**0 days**	**1070**	**1083FS-30 days**	
1080	1080	5.30.4.1.2.1	Installation of pipework, chemical pipework and valves, EQT036	14 days	Fri 19/03/21	Thu 01/04/21	Fri 19/03/21	Thu 01/04/21	0 days	1071,1058,1	1081	ME - A x 4~6 men
1081	1081	5.30.4.1.2.2	Installation of pumps	7 days	Fri 02/04/21	Thu 08/04/21	Fri 02/04/21	Thu 08/04/21	0 days	1080,1052	1085	ME - A x 4~6 men
1082	1082	5.30.4.1.2.3	Installation of instrumentations, EQT035-3	7 days	Fri 19/03/21	Thu 25/03/21	Fri 19/03/21	Thu 25/03/21	0 days	1071,1055	1085	ME - A x 4~6 men
1083	**1083**	**5.30.4.1.2.**	**Electrical Installations for Temp. Filtrate Lifting Well and Eq. Tan**	**34 days**	**Sat 13/03/21**	**Thu 15/04/21**	**Sat 13/03/21**	**Thu 15/04/21**	**0 days**	**1079FS-30 d**		
1084	1084	5.30.4.1.2.4	Installation of cable trays and cable containments	21 days	Sat 13/03/21	Fri 02/04/21	Sat 13/03/21	Fri 02/04/21	0 days	1071	1085	EE - A x 4~6 men
1085	1085	5.30.4.1.2.5	Cables laying and terminations	7 days	Fri 09/04/21	Thu 15/04/21	Fri 09/04/21	Thu 15/04/21	0 days	1084,1081,1	1086	EE - A x 4~6 men
1086	1086	5.30.4.1.3	Site Acceptance Test for E&M Equip at Filtrate Lifting Well and Eq. Ta	7 days	Fri 16/04/21	Thu 22/04/21	Fri 16/04/21	Thu 22/04/21	0 days	1085	1087	
1087	1087	5.30.4.1.4	System Commissioning for E&M Equip at Temp. Filtrate Lifting Well a	7 days	Fri 23/04/21	Thu 29/04/21	Fri 23/04/21	Thu 29/04/21	2 days	1086	1113FF	
1088	**1088**	**5.31**	**Existing PST No. 4 and No. 6, Portion B-3A (PS 6B.2.15)**	**397 days**	**Sat 01/08/20**	**Wed 01/09/21**	**Sat 01/08/20**	**Wed 01/09...**	**0 days**			
1089	1089	5.31.1	Planned Key Date Completion Date - KD3B	0 days	Mon 07/06/21	Mon 07/06/21	Mon 07/06/21	Mon 07/06/...	0 days	1156FF		
1090	1090	5.31.2	Planned Sectional Completion Date - Section 3, PST No. 4 and No. 6	0 days	Wed 01/09/21	Wed 01/09/21	Wed 01/09/21	Wed 01/09/...	0 days	1073FF,118		
1091	**1091**	**5.31.3**	**Selection of Suppliers for major plant and materials and Subcontractor for PST No. 4 and No. 6**	**137 days**	**Sat 01/08/20**	**Tue 15/12/20**	**Sat 01/08/20**	**Tue 15/12/20**	**0 days**			
1092	**1092**	**5.31.3.1**	**Mis - Rotating Bridge Scrapers and associated materials, C11, ref. EQT037-1**	**42 days**	**Sat 01/08/20**	**Fri 11/09/20**	**Sat 01/08/20**	**Fri 11/09/20**	**0 days**			
1093	1093	5.31.3.1.1	Submission for acceptance of purchasing package	7 days	Sat 01/08/20	Fri 07/08/20	Sat 01/08/20	Fri 07/08/20	0 days		1094	
1094	1094	5.31.3.1.2	Invitation of quotations for purchasing package	14 days	Sat 08/08/20	Fri 21/08/20	Sat 08/08/20	Fri 21/08/20	0 days	1093	1095	
1095	1095	5.31.3.1.3	Acceptance of conforming quotation (Completed)	21 days	Sat 22/08/20	Fri 11/09/20	Sat 22/08/20	Fri 11/09/20	0 days	1094	1105	
1096	**1096**	**5.31.3.2**	**Mis - Pipework, C11, ref. EQT037-2**	**42 days**	**Sat 01/08/20**	**Fri 11/09/20**	**Sat 01/08/20**	**Fri 11/09/20**	**0 days**			
1097	1097	5.31.3.2.1	Submission for acceptance of purchasing package	7 days	Sat 01/08/20	Fri 07/08/20	Sat 01/08/20	Fri 07/08/20	0 days		1098	
1098	1098	5.31.3.2.2	Invitation of quotations for purchasing package	14 days	Sat 08/08/20	Fri 21/08/20	Sat 08/08/20	Fri 21/08/20	0 days	1097	1099	
1099	1099	5.31.3.2.3	Acceptance of conforming quotation (Completed)	21 days	Sat 22/08/20	Fri 11/09/20	Sat 22/08/20	Fri 11/09/20	0 days	1098	1105	
1100	**1100**	**5.31.3.3**	**Subletting of Electrical and Mechanical Installation Work w/ supply of LCP**	**81 days**	**Sat 26/09/20**	**Tue 15/12/20**	**Sat 26/09/20**	**Tue 15/12/20**	**0 days**			
1101	1101	5.31.3.3.1	Submission for Subletting Package	30 days	Sat 26/09/20	Sun 25/10/20	Sat 26/09/20	Sun 25/10/20	0 days	1105	1102	
1102	1102	5.31.3.3.2	Invitation to tender	21 days	Mon 26/10/20	Sun 15/11/20	Mon 26/10/20	Sun 15/11/20	0 days	1101	1103	
1103	1103	5.31.3.3.3	Acceptance of conforming tender (Completed)	30 days	Mon 16/11/20	Tue 15/12/20	Mon 16/11/20	Tue 15/12/20	0 days	1102	1120	
1104	**1104**	**5.31.4**	**Design Submissions**	**14 days**	**Sat 12/09/20**	**Fri 25/09/20**	**Sat 12/09/20**	**Fri 25/09/20**	**0 days**			
1105	1105	5.31.4.1	Design submissions for retrofitting the existing PST No. 4 and No. 6	14 days	Sat 12/09/20	Fri 25/09/20	Sat 12/09/20	Fri 25/09/20	0 days	1095,1099	1108,1111,1101	
1106	**1106**	**5.31.5**	**Manufacturing and Delivery of Plant & Materials**	**195 days**	**Sat 26/09/20**	**Thu 08/04/21**	**Sat 26/09/20**	**Thu 08/04/21**	**0 days**			
1107	**1107**	**5.31.5.1**	**Rotating Bridge Scrapers and associated materials**	**195 days**	**Sat 26/09/20**	**Thu 08/04/21**	**Sat 26/09/20**	**Thu 08/04/21**	**0 days**			
1108	1108	5.31.5.1.1	Manufacturing and Factory Acceptance Test of Plant	150 days	Sat 26/09/20	Mon 22/02/21	Sat 26/09/20	Mon 22/02/...	0 days	1105	1109	
1109	1109	5.31.5.1.2	Shipping and Delivery of Plant to site (Rev. 8)	45 days	Tue 23/02/21	Thu 08/04/21	Tue 23/02/21	Thu 08/04/21	0 days	1108	1126	



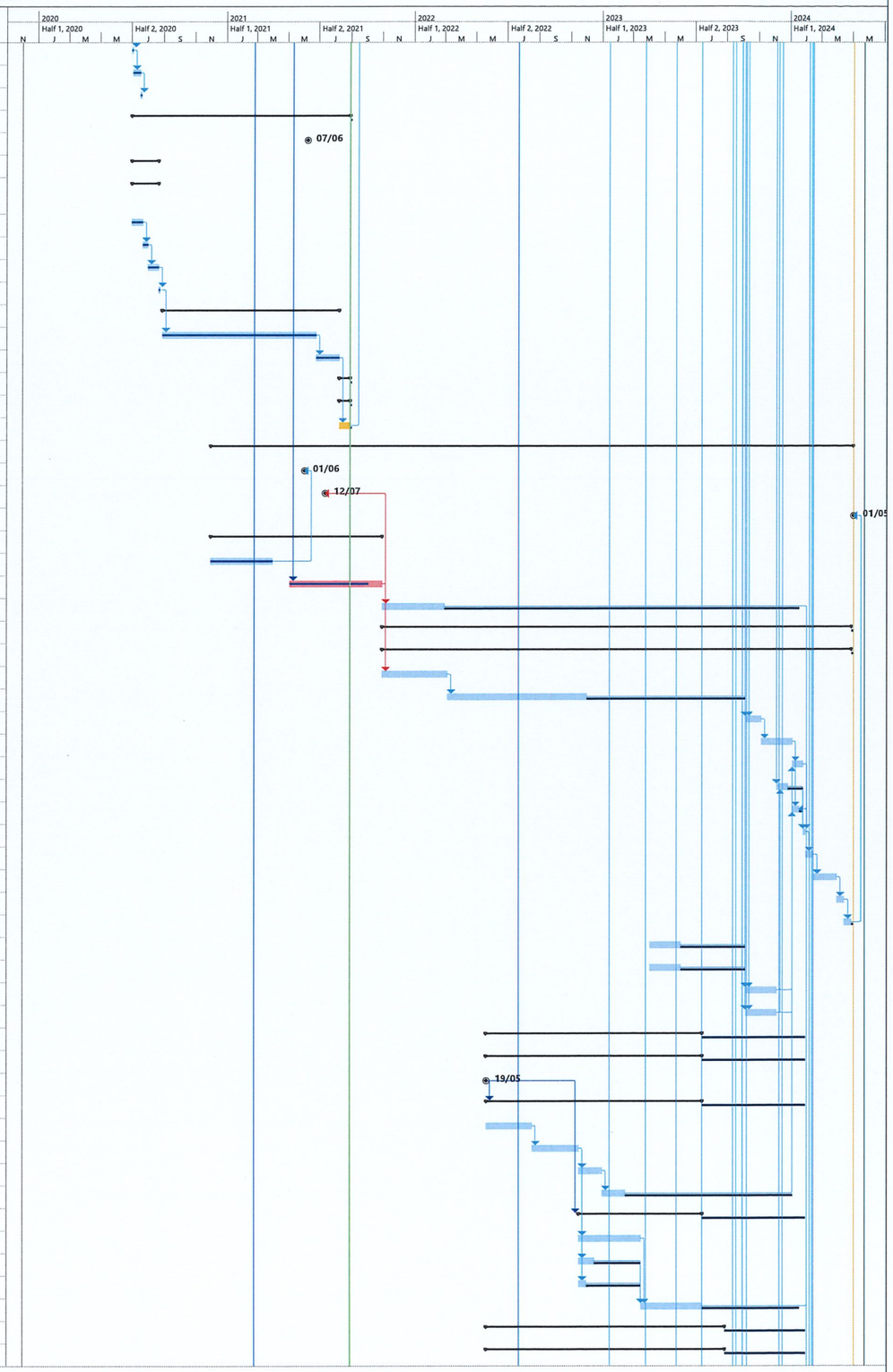
Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

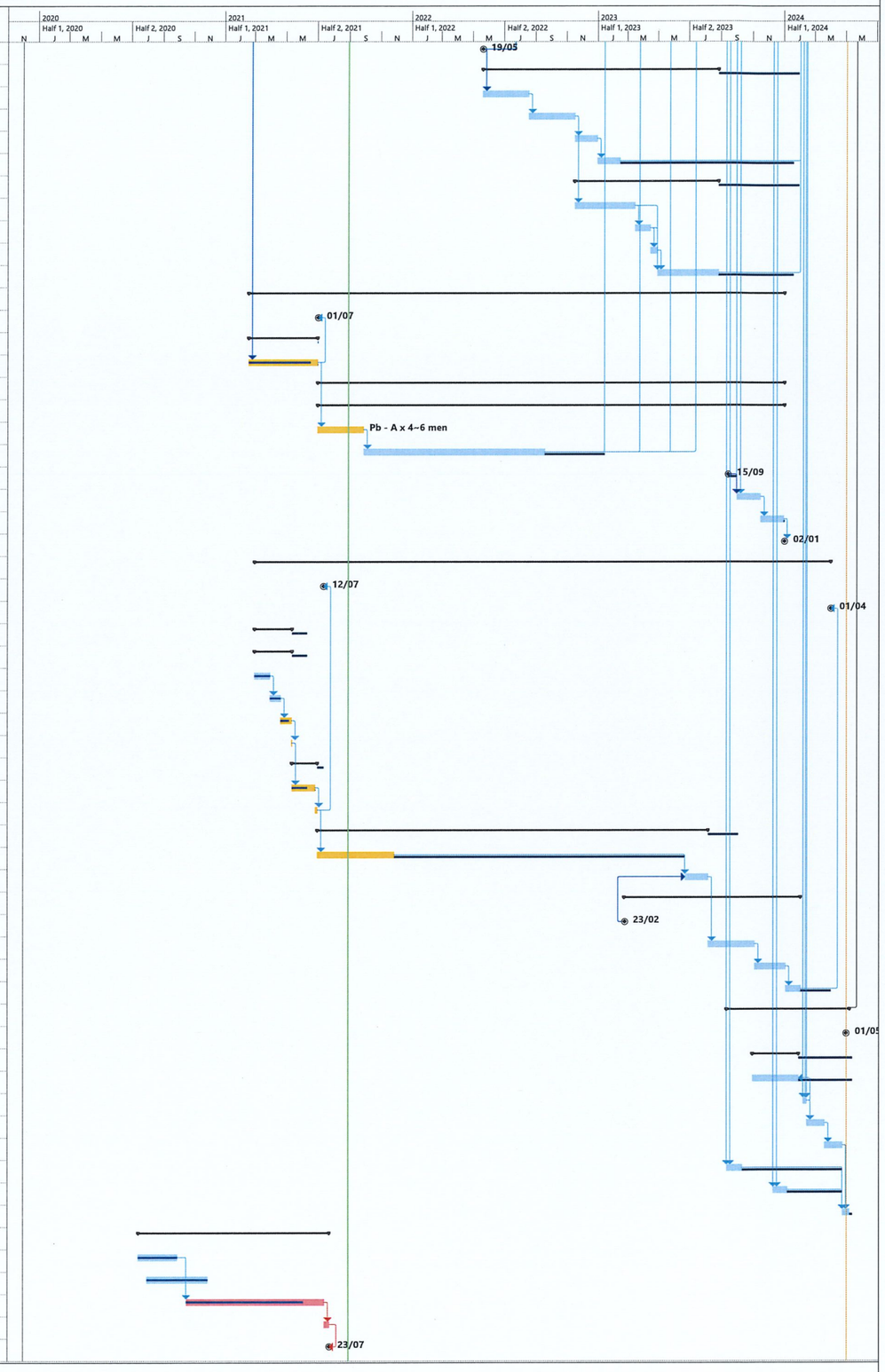
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
1110	**1110**	**5.31.5.2**	**Pipework**	**120 days**	**Sat 26/09/20**	**Sat 23/01/21**	**Sat 26/09/20**	**Sat 23/01/21**	**0 days**			
1111	1111	5.31.5.2.1	Manufacturing and Factory Acceptance Test of Plant	90 days	Sat 26/09/20	Thu 24/12/20	Sat 26/09/20	Thu 24/12/20	0 days	1105	1112	
1112	1112	5.31.5.2.2	Shipping and Delivery of Plant to site	30 days	Fri 25/12/20	Sat 23/01/21	Fri 25/12/20	Sat 23/01/21	0 days	1111	1121	
1113	1113	5.31.6	Tentative Civil Handover, Filtrate Lifting Well and Eq. Tank (Completion of work)	1 day	Sat 01/05/21	Sat 01/05/21	Sat 01/05/21	Sat 01/05/21	0 days	1087FF,107		
1114	**1114**	**5.31.7**	**Site Installation Work**	**300 days**	**Thu 01/10/20**	**Tue 27/07/21**	**Thu 01/10/20**	**Tue 27/07/21**	**0 days**			
1115	**1115**	**5.31.7.1**	**Commencement of retrofitting the existing PST No. 4 and No. 6**	**300 days**	**Thu 01/10/20**	**Tue 27/07/21**	**Thu 01/10/20**	**Tue 27/07/21**	**0 days**			
1116	1116	5.31.7.1.1	Temporary flow diversion of Filtrate from PST No. 4,	1 day	Thu 01/10/20	Thu 01/10/20	Thu 01/10/20	Thu 01/10/20	0 days		1117	
1117	1117	5.31.7.1.2	Dismantle and Removal of E&M Equipment at PST No. 6	60 days	Fri 02/10/20	Mon 30/11/20	Fri 02/10/20	Mon 30/11/...	0 days	1116	1118	
1118	1118	5.31.7.1.3	Temporary flow diversion of Filtrate from PST No. 6	7 days	Tue 01/12/20	Mon 07/12/20	Tue 01/12/20	Mon 07/12/...	0 days	1117	1119	
1119	1119	5.31.7.1.4	Dismantle and Removal of E&M Equipment at PST No. 4	119 days	Tue 08/12/20	Mon 05/04/21	Tue 08/12/20	Mon 05/04/...	0 days	1118	1121	
1120	**1120**	**5.31.7.1.5**	**Mechanical Installations of existing PSTs No. 4 (Completed)**	**56 days**	**Tue 06/04/21**	**Mon 31/05/21**	**Tue 06/04/21**	**Mon 31/05/21**	**2.5 days**	**1103**		
1121	1121	5.31.7.1.5.1	Installation of PST influent feed pipe	5 days	Tue 06/04/21	Sat 10/04/21	Tue 06/04/21	Sat 10/04/21	0 days	1119,1112	1122	ME - A x 4~6 men
1122	1122	5.31.7.1.5.2	Installation of circular baffle diffuser box	5 days	Sun 11/04/21	Thu 15/04/21	Sun 11/04/21	Thu 15/04/21	0 days	1121	1123	ME - A x 4~6 men
1123	1123	5.31.7.1.5.3	Installation of scum baffle plates	5 days	Fri 16/04/21	Tue 20/04/21	Fri 16/04/21	Tue 20/04/21	0 days	1122	1124	ME - A x 4~6 men
1124	1124	5.31.7.1.5.4	Installation of scum box with collection valve and pipework	5 days	Wed 21/04/21	Sun 25/04/21	Wed 21/04/21	Sun 25/04/21	0 days	1123	1125	ME - A x 4~6 men
1125	1125	5.31.7.1.5.5	Installation of v-notched weir plate	7 days	Mon 26/04/21	Sun 02/05/21	Mon 26/04/21	Sun 02/05/21	0 days	1124	1126	ME - A x 4~6 men
1126	1126	5.31.7.1.5.6	Installation of center bearing and slip ring assembly for rotating bridge	5 days	Mon 03/05/21	Fri 07/05/21	Mon 03/05/21	Fri 07/05/21	0 days	1125,1109	1127	ME - A x 4~6 men
1127	1127	5.31.7.1.5.7	Installation of motor and gearbox assembly for rotating bridge	5 days	Sat 08/05/21	Wed 12/05/21	Sat 08/05/21	Wed 12/05/21	0 days	1126	1128	ME - A x 4~6 men
1128	1128	5.31.7.1.5.8	Installation of rotating bridge sludge and scum scraper assembly	5 days	Thu 13/05/21	Mon 17/05/21	Thu 13/05/21	Mon 17/05/21	0 days	1127	1129,1131	ME - A x 4~6 men
1129	1129	5.31.7.1.5.9	installation of removable FRP covers for effluent channel	14 days	Tue 18/05/21	Mon 31/05/21	Tue 18/05/21	Mon 31/05/21	0 days	1128	1133	ME - A x 4~6 men
1130	**1130**	**5.31.7.1.6**	**Electrical Installations of existing PST No. 4**	**10 days**	**Tue 18/05/21**	**Thu 27/05/21**	**Tue 18/05/21**	**Thu 27/05/21**	**0 days**		**1133**	
1131	1131	5.31.7.1.6.1	Installation of local control panels	5 days	Tue 18/05/21	Sat 22/05/21	Tue 18/05/21	Sat 22/05/21	0 days	1128	1132	EE - A x 4~6 men
1132	1132	5.31.7.1.6.2	cable laying and terminations	5 days	Sun 23/05/21	Thu 27/05/21	Sun 23/05/21	Thu 27/05/21	0 days	1131	1133	EE - A x 4~6 men
1133	1133	5.31.7.1.7	Site Acceptance Test for E&M Equip at existing PST No. 4	5 days	Tue 01/06/21	Sat 05/06/21	Tue 01/06/21	Sat 05/06/21	49 days	1130,1129,11	1156	
1134	**1134**	**5.31.7.1.8**	**CNE-0229 - Removal of accumulated sludge inside PST No. 6**	**12 days**	**Wed 19/05/21**	**Sun 30/05/21**	**Wed 19/05/21**	**Sun 30/05/21**	**0 days**		**1144**	
1135	1135	5.31.7.1.8.1	Filtrate divserion to Temporary Filtrate Equalisation Tank	2 days	Wed 19/05/21	Thu 20/05/21	Wed 19/05/21	Thu 20/05/21	0 days		1136	
1136	1136	5.31.7.1.8.2	Removal of floating scum / sludge inside PST No. 6	7 days	Fri 21/05/21	Thu 27/05/21	Fri 21/05/21	Thu 27/05/21	0 days	1135,1140	1137,1138	
1137	1137	5.31.7.1.8.3	Clearance of blockage of PST No. 6 drain pipe	3 days	Fri 28/05/21	Sun 30/05/21	Fri 28/05/21	Sun 30/05/21	0 days	1136		
1138	1138	5.31.7.1.8.4	Retrofiting Concrete Structure of PST No. 6	3 days	Fri 28/05/21	Sun 30/05/21	Fri 28/05/21	Sun 30/05/21	0 days	1136		
1139	**1139**	**5.31.7.1.9**	**NCE-007 - Additional Contract Requirements for provision ICE's Certificates (RSE) on re-use of existing materials**	**8 days**	**Mon 14/06/21**	**Mon 21/06/21**	**Mon 14/06/21**	**Mon 21/06/21**	**0 days**			
1140	1140	5.31.7.1.9.1	Provision of ICE's Certificate	8 days	Mon 14/06/21	Mon 21/06/21	Mon 14/06/21	Mon 21/06/...	0 days		1136,1144	
1141	**1141**	**5.31.7.1.10**	**NCE-008 - Additional Contract Requirements for provision ICE's Certificates on product design of E&M plant and materials.**	**14 days**	**Thu 24/06/21**	**Wed 07/07/21**	**Thu 24/06/21**	**Wed 07/07/21**	**0 days**			
1142	1142	5.31.7.1.10	Provision of ICE's Certificate	14 days	Thu 24/06/21	Wed 07/07/21	Thu 24/06/21	Wed 07/07/...	0 days		1144	
1143	**1143**	**5.31.7.1.11**	**Mechanical Installations of existing PST No. 6**	**48 days**	**Fri 04/06/21**	**Wed 21/07/21**	**Fri 04/06/21**	**Wed 21/07...**	**0 days**			
1144	1144	5.31.7.1.11	Installation of PST influent feed pipe	2 days	Thu 08/07/21	Fri 09/07/21	Thu 08/07/21	Fri 09/07/21	0 days	1134,1140,11	1145	ME - A x 4~6 men
1145	1145	5.31.7.1.11	Installation of center bearing and slip ring assembly for rotating br	2 days	Sat 10/07/21	Sun 11/07/21	Sat 10/07/21	Sun 11/07/21	0 days	1144	1146,1149	ME - A x 4~6 men
1146	1146	5.31.7.1.11	Installation of motor and gearbox assembly for rotating bridge	5 days	Mon 12/07/21	Fri 16/07/21	Mon 12/07/21	Fri 16/07/21	0 days	1145	1153,1147,1148	ME - A x 4~6 men
1147	1147	5.31.7.1.11	Installation of rotating bridge sludge and scum scraper assembly	5 days	Sat 17/07/21	Wed 21/07/21	Sat 17/07/21	Wed 21/07/...	0 days	1146		ME - A x 4~6 men
1148	1148	5.31.7.1.11	Installation of circular baffle diffuser box	2 days	Sat 17/07/21	Sun 18/07/21	Sat 17/07/21	Sun 18/07/21	0 days	1146		ME - A x 4~6 men
1149	1149	5.31.7.1.11	Installation of v-notched weir plate	2 days	Fri 04/06/21	Sat 05/06/21	Fri 04/06/21	Sat 05/06/21	0 days	1145	1150,1151	ME - A x 4~6 men
1150	1150	5.31.7.1.11	Installation of scum baffle plates	2 days	Sun 06/06/21	Mon 07/06/21	Sun 06/06/21	Mon 07/06/...	0 days	1149		ME - A x 4~6 men
1151	1151	5.31.7.1.11	Installation of scum collection box	2 days	Sun 06/06/21	Mon 07/06/21	Sun 06/06/21	Mon 07/06/...	0 days	1149		ME - A x 4~6 men
1152	**1152**	**5.31.7.1.12**	**Electrical Installations of existing PSTs No. 6**	**6 days**	**Sat 17/07/21**	**Thu 22/07/21**	**Sat 17/07/21**	**Thu 22/07/21**	**0 days**		**1155**	
1153	1153	5.31.7.1.12	Installation of local control panels	3 days	Sat 17/07/21	Mon 19/07/21	Sat 17/07/21	Mon 19/07/...	0 days	1146	1154	
1154	1154	5.31.7.1.12	cable laying and terminations	3 days	Tue 20/07/21	Thu 22/07/21	Tue 20/07/21	Thu 22/07/21	0 days	1153	1155	
1155	1155	5.31.7.1.13	Site Acceptance Test for E&M Equip at existing PST No. 6	2 days	Fri 23/07/21	Sat 24/07/21	Fri 23/07/21	Sat 24/07/21	0 days	1152,1154	1156	
1156	1156	5.31.7.1.14	System Commissioning for E&M Equip at existing PST No. 4 and No. 6	3 days	Sun 25/07/21	Tue 27/07/21	Sun 25/07/21	Tue 27/07/21	0 days	1133,1155	1089FF	
1157	**1157**	**5.32**	**Existing Main Power House Electrical, Portion B-7A and B-7B (PS 6B.3.17)**	**42 days**	**Thu 11/06/20**	**Wed 22/07/20**	**Thu 11/06/20**	**Wed 22/07...**	**0 days**			
1158	1158	5.32.1	Planned Key Date Completion Date - KD3A	0 days	Wed 22/07/20	Wed 22/07/20	Wed 22/07/20	Wed 22/07/...	0 days			
1159	**1159**	**5.32.2**	**Design Submissions for Existing Emergency Generator House**	**15 days**	**Fri 12/06/20**	**Fri 26/06/20**	**Fri 12/06/20**	**Fri 26/06/20**	**0 days**			
1160	1160	5.32.2.1	Design submissions for E&M installation works of existing power house	15 days	Fri 12/06/20	Fri 26/06/20	Fri 12/06/20	Fri 26/06/20	0 days	184	1164	
1161	**1161**	**5.32.3**	**Site Installation Work**	**39 days**	**Thu 11/06/20**	**Sun 19/07/20**	**Thu 11/06/20**	**Sun 19/07/20**	**0 days**			
1162	1162	5.32.3.1	Tentative Civil Handover Date, Portion B-7A & 7B area for modification of exist	1 day	Thu 11/06/20	Thu 11/06/20	Thu 11/06/20	Thu 11/06/20	0 days			
1163	**1163**	**5.32.3.2**	**Commencement of Modification of existing emergency generator Electrical Works**	**23 days**	**Sat 27/06/20**	**Sun 19/07/20**	**Sat 27/06/20**	**Sun 19/07/20**	**0 days**			
1164	1164	5.32.3.2.1	Site survey and preparation work	1 day	Sat 27/06/20	Sat 27/06/20	Sat 27/06/20	Sat 27/06/20	0 days	1160	1165	
1165	1165	5.32.3.2.2	Modification of existing emergency generator electrical works	3 days	Sun 28/06/20	Tue 30/06/20	Sun 28/06/20	Tue 30/06/20	0 days	1164	1166	



ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
1166	1166	5.32.3.2.3	Test the new switchboard for on-site mobile generator	2 days	Wed 01/07/20	Thu 02/07/20	Wed 01/07/20	Thu 02/07/20	0 days	1165	1167	
1167	1167	5.32.3.2.4	Dismantling and removal the existing power & control cables	14 days	Fri 03/07/20	Thu 16/07/20	Fri 03/07/20	Thu 16/07/20	0 days	1166	1168	
1168	1168	5.32.3.2.5	Take down existing generator to DSD (Completed)	3 days	Fri 17/07/20	Sun 19/07/20	Fri 17/07/20	Sun 19/07/20	0 days	1167		
1169	**1169**	**5.33**	**Existing Sludge Press House, Portion B-10 (PS 6B.2.11)**	**425 days**	**Wed 01/07/20**	**Sun 29/08/21**	**Wed 01/07/20**	**Sun 29/08/21**	**3 days**			
1170	1170	5.33.1	Planned Key Date Completion Date - KD3B	0 days	Mon 07/06/21	Mon 07/06/21	Mon 07/06/21	Mon 07/06/...	0 days			
1171	**1171**	**5.33.2**	**Selection of Suppliers for major plant and materials for Filter Presses**	**52 days**	**Wed 01/07/20**	**Fri 21/08/20**	**Wed 01/07/20**	**Fri 21/08/20**	**0 days**			
1172	**1172**	**5.33.2.1**	**Mis - new replacement filter plates and provision of filter cloths, C11, ref. EQT038**	**52 days**	**Wed 01/07/20**	**Fri 21/08/20**	**Wed 01/07/20**	**Fri 21/08/20**	**0 days**			
1173	1173	5.33.2.1.1	Submission for acceptance of purchasing package	21 days	Wed 01/07/20	Tue 21/07/20	Wed 01/07/20	Tue 21/07/20	0 days		1174	
1174	1174	5.33.2.1.2	Invitation of quotations for purchasing package	10 days	Wed 22/07/20	Fri 31/07/20	Wed 22/07/20	Fri 31/07/20	0 days	1173	1175	
1175	1175	5.33.2.1.3	Acceptance of conforming quotation (Completed)	21 days	Sat 01/08/20	Fri 21/08/20	Sat 01/08/20	Fri 21/08/20	0 days	1174	1176	
1176	1176	5.33.3	Design submission for replacement of filter plates	7 edays	Fri 21/08/20	Fri 28/08/20	Fri 21/08/20	Fri 28/08/20	0 edays	1175	1178	
1177	**1177**	**5.33.4**	**Manufacturing and Delivery of Plant & Materials**	**345 days**	**Sat 29/08/20**	**Sun 08/08/21**	**Sat 29/08/20**	**Sun 08/08/21**	**0 days**			
1178	1178	5.33.4.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Sat 29/08/20	Thu 24/06/21	Sat 29/08/20	Thu 24/06/21	0 days	1176	1179	
1179	1179	5.33.4.2	Shipping and Delivery of Plant to site	45 days	Fri 25/06/21	Sun 08/08/21	Fri 25/06/21	Sun 08/08/21	0 days	1178	1182	
1180	**1180**	**5.33.5**	**Site Installation Work**	**21 days**	**Mon 09/08/21**	**Sun 29/08/21**	**Mon 09/08/21**	**Sun 29/08/21**	**3 days**			
1181	**1181**	**5.33.5.1**	**Commencement of replacement of filter plates**	**21 days**	**Mon 09/08/21**	**Sun 29/08/21**	**Mon 09/08/21**	**Sun 29/08/21**	**3 days**			
1182	1182	5.33.5.1.1	Replacement of filter plates (On Hold)	21 days	Mon 09/08/21	Sun 29/08/21	Mon 09/08/21	Sun 29/08/21	3 days	1179	1090FF	
1183	**1183**	**5.34**	**Fire Services Installation (PS 6B.6.9)**	**1248 days**	**Tue 01/12/20**	**Wed 01/05/24**	**Tue 01/12/20**	**Wed 01/05...**	**0 days**			
1184	1184	5.34.1	Planned Key Date Completion Date - KD1B, Fire	0 days	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days	1188FF		
1185	1185	5.34.2	Planned Sectional Completion Date - Section 1, FSI	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	1189FF		
1186	1186	5.34.3	Planned Sectional Completion Date - Section 4, FSI	0 days	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/...	0 days	1204FF		
1187	**1187**	**5.34.4**	**Design Submissions for FSI**	**334 days**	**Tue 01/12/20**	**Sat 30/10/21**	**Tue 01/12/20**	**Sat 30/10/21**	**0 days**			
1188	1188	5.34.4.1	CDS081-11 - Civil and dimensional requirements drawings for Fire Servi	120 days	Tue 01/12/20	Tue 30/03/21	Tue 01/12/20	Tue 30/03/21	0 days		1184FF	
1189	1189	5.34.4.2	CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkle	180 edays	Mon 03/05/21	Sat 30/10/21	Mon 03/05/21	Sat 30/10/21	0 edays	159	1193,1190,1185FF	
1190	1190	5.34.5	DG Stores Submissions to FSD for approval	120 days	Sun 31/10/21	Sun 27/02/22	Sun 31/10/21	Sun 27/02/22	690 days	1189	1199FF	
1191	**1191**	**5.34.6**	**Site Installation Work**	**910 days**	**Sun 31/10/21**	**Sat 27/04/24**	**Sun 31/10/21**	**Sat 27/04/24**	**4 days**			
1192	**1192**	**5.34.6.1**	**Commencement of Fire Services Installation**	**910 days**	**Sun 31/10/21**	**Sat 27/04/24**	**Sun 31/10/21**	**Sat 27/04/24**	**4 days**			
1193	1193	5.34.6.1.1	Design Review of Approved General Building Plan	126 days	Sun 31/10/21	Sat 05/03/22	Sun 31/10/21	Sat 05/03/22	0 days	1189	1194	
1194	1194	5.34.6.1.2	Submission of WWO542 for WSD's approval	270 days	Sun 06/03/22	Wed 30/11/22	Sun 06/03/22	Wed 30/11/22	310 days	1193	1195	
1195	1195	5.34.6.1.3	Submission of WWO46 for WSD's Inspection	30 days	Sat 07/10/23	Sun 05/11/23	Sat 07/10/23	Sun 05/11/23	0 days	1194,358,487	1196	
1196	1196	5.34.6.1.4	Obtain WWO46 Part V	60 days	Mon 06/11/23	Thu 04/01/24	Mon 06/11/23	Thu 04/01/24	0 days	1195	1199,1197	
1197	1197	5.34.6.1.5	FSD Inspection and Approval for MVAC	21 days	Fri 05/01/24	Thu 25/01/24	Fri 05/01/24	Thu 25/01/24	0 days	1207,1208,11	1200	
1198	1198	5.34.6.1.6	FSD Inspection and Approval for DG Stores	21 days	Wed 06/12/23	Tue 26/12/23	Wed 06/12/23	Tue 26/12/23	30 days	1207,1208,82	1200	
1199	1199	5.34.6.1.7	Submission of (FSI/314 & FSI/S01) to FSD	14 days	Fri 05/01/24	Thu 18/01/24	Fri 05/01/24	Thu 18/01/24	7 days	1207,1208,11	1200	
1200	1200	5.34.6.1.8	Pre-inspection meeting with FSD	5 days	Fri 26/01/24	Tue 30/01/24	Fri 26/01/24	Tue 30/01/24	0 days	1199,1197,11	1201	
1201	1201	5.34.6.1.9	Initial Inspection with FSD	15 days	Wed 31/01/24	Wed 14/02/24	Wed 31/01/24	Wed 14/02/24	0 days	1200	1202	
1202	1202	5.34.6.1.10	Document Checking	45 days	Thu 15/02/24	Sat 30/03/24	Thu 15/02/24	Sat 30/03/24	0 days	1201	1203	
1203	1203	5.34.6.1.11	Re-inspections with FSD	14 days	Sun 31/03/24	Sat 13/04/24	Sun 31/03/24	Sat 13/04/24	0 days	1202	1204	
1204	1204	5.34.6.1.12	Issue of acceptance memo by FSD	14 days	Sun 14/04/24	Sat 27/04/24	Sun 14/04/24	Sat 27/04/24	4 days	1203	1186FF	
1205	1205	5.34.6.1.13	Installation of FS Pumps and Sprinkler Pumps	60 days	Mon 03/04/23	Thu 01/06/23	Mon 03/04/23	Thu 01/06/23	127 days		1208	FS - A x 4~6 men
1206	1206	5.34.6.1.14	Installation of Fire Hydrant and Booster Pumps	60 days	Mon 03/04/23	Thu 01/06/23	Mon 03/04/23	Thu 01/06/23	127 days		1208	FS - A x 4~6 men
1207	1207	5.34.6.1.15	SAT for Manual and automatic fire detection and alarm system	60 days	Sat 07/10/23	Tue 05/12/23	Sat 07/10/23	Tue 05/12/23	0 days	358,487,598,	1199,1197,1198	
1208	1208	5.34.6.1.16	SAT for Fire hydrants, hose reels and street fire hydrant system	60 days	Sat 07/10/23	Tue 05/12/23	Sat 07/10/23	Tue 05/12/23	0 days	1205,1206,35	1199,1197,1198	
1209	**1209**	**5.35**	**Fire Services Sprinkler Pumping Room, Portion B-7 & B-7B (PS 6B.6.9)**	**421 days**	**Thu 19/05/22**	**Thu 13/07/23**	**Thu 19/05/22**	**Thu 13/07/23**	**200 days**			
1210	**1210**	**5.35.1**	**Site Installation Work**	**421 days**	**Thu 19/05/22**	**Thu 13/07/23**	**Thu 19/05/22**	**Thu 13/07/23**	**200 days**			
1211	1211	5.35.1.1	Tentative Civil Handover Date, FS Sprinkler Pump Room (Rev. 5)	1 day	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days		1212,1217	
1212	**1212**	**5.35.1.2**	**Commencement of E&M Installation at FS & Sprinkler Pump Room**	**420 days**	**Thu 19/05/22**	**Thu 13/07/23**	**Thu 19/05/22**	**Thu 13/07/23**	**200 days**	**1211**		
1213	1213	5.35.1.2.1	Mechanical Installations for FS & Sprinkler Pumps	90 edays	Thu 19/05/22	Wed 17/08/22	Thu 19/05/22	Wed 17/08/...	0 edays		1214	FS - A x 4~6 men
1214	1214	5.35.1.2.2	Electrical Installations for FS & Sprinkler Pumps	90 edays	Wed 17/08/22	Tue 15/11/22	Wed 17/08/22	Tue 15/11/22	0.63 edays	1213	1215,1218,1219,1220	FS - A x 4~6 men
1215	1215	5.35.1.2.3	Site Acceptance Test for FS & Sprinkler Pumps	45 days	Wed 16/11/22	Fri 30/12/22	Wed 16/11/22	Fri 30/12/22	0 days	1214	1216	
1216	1216	5.35.1.2.4	System Commissioning for FS & Sprinkler Pumps	45 days	Sat 31/12/22	Mon 13/02/23	Sat 31/12/22	Mon 13/02/...	325 days	1215	1199	
1217	**1217**	**5.35.1.2.5**	**Building Services Installations at FS & Sprinkler Pump Room**	**240 days**	**Wed 16/11/22**	**Thu 13/07/23**	**Wed 16/11/22**	**Thu 13/07/23**	**200 days**	**1211**		
1218	1218	5.35.1.2.5.1	Lighting and Power Distribution System, Chem 1&2	120 days	Wed 16/11/22	Wed 15/03/23	Wed 16/11/22	Wed 15/03/...	0 days	1214	1221	BS - A x 4~6 men
1219	1219	5.35.1.2.5.2	Lightning Protection System, FS & Sprinkler Pump Room	30 days	Wed 16/11/22	Thu 15/12/22	Wed 16/11/22	Thu 15/12/22	90 days	1214	1221	BS - A x 4~6 men
1220	1220	5.35.1.2.5.3	Mechanical Ventilation System, FS & Sprinkler PR	14 days	Wed 16/11/22	Tue 29/11/22	Wed 16/11/22	Tue 29/11/22	106 days	1214	1221	MVAC - A x 4~6 men
1221	1221	5.35.1.2.5.4	Testing and Commissioning of Building Services Installations, FS &	120 days	Thu 16/03/23	Thu 13/07/23	Thu 16/03/23	Thu 13/07/23	189 days	1218,1219,11	199FF	
1222	**1222**	**5.36**	**Fire Hydrant and Booster Pumping Room, Portion B7 & B-7B (PS 6B.6.9)**	**465 days**	**Thu 19/05/22**	**Sat 26/08/23**	**Thu 19/05/22**	**Sat 26/08/23**	**156 days**			
1223	**1223**	**5.36.1**	**Site Installation Work**	**465 days**	**Thu 19/05/22**	**Sat 26/08/23**	**Thu 19/05/22**	**Sat 26/08/23**	**156 days**			



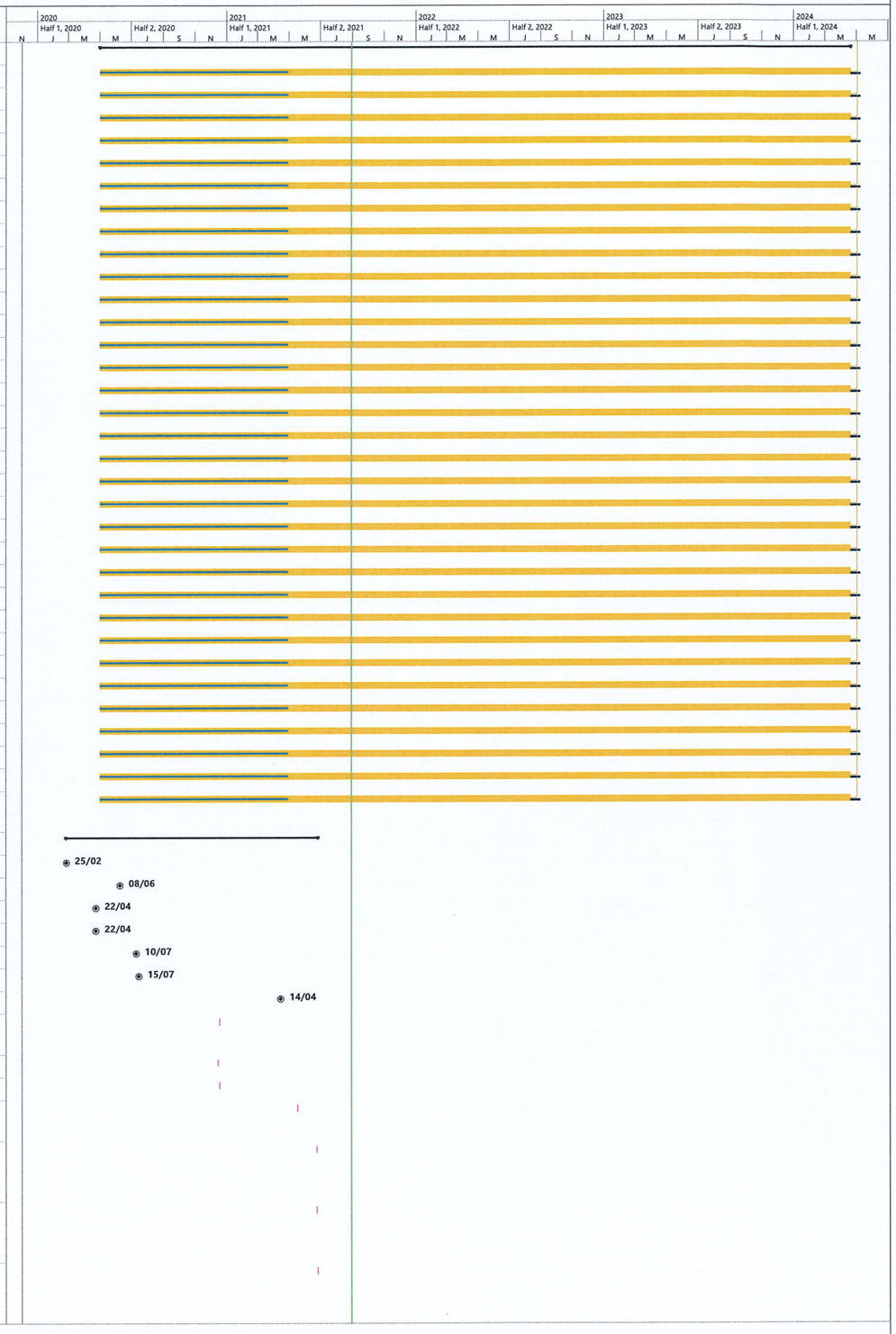
ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
1224	1224	5.36.1.1	Tentative Civil Handover Date, Fire Hydrant and Booster Pumping Roor	1 day	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days		861FF+50 days,1226	
1225	**1225**	**5.36.1.2**	**Commencement of E&M Installation at Street FH Pump Room**	**464 days**	**Thu 19/05/22**	**Sat 26/08/23**	**Thu 19/05/22**	**Sat 26/08/23**	**156 days**			
1226	1226	5.36.1.2.1	Mechanical Installations for Street FH Pumps	90 edays	Thu 19/05/22	Wed 17/08/22	Thu 19/05/22	Wed 17/08/...	0 edays	1224	1227	FS - A x 4~6 men
1227	1227	5.36.1.2.2	Electrical Installations for Street FH Pump	90 edays	Wed 17/08/22	Tue 15/11/22	Wed 17/08/22	Tue 15/11/22	0.63 edays	1226	1228,1231	FS - A x 4~6 men
1228	1228	5.36.1.2.3	Site Acceptance Test for Street FH Pump	45 days	Wed 16/11/22	Fri 30/12/22	Wed 16/11/22	Fri 30/12/22	0 days	1227	1229	
1229	1229	5.36.1.2.4	System Commissioning for Street FH Pumps	45 days	Sat 31/12/22	Mon 13/02/23	Sat 31/12/22	Mon 13/02/...	339 days	1228	1199FF	
1230	**1230**	**5.36.1.2.5**	**Building Services Installations at Street FH Pump Room**	**284 days**	**Wed 16/11/22**	**Sat 26/08/23**	**Wed 16/11/22**	**Sat 26/08/23**	**156 days**			
1231	1231	5.36.1.2.5.1	Lighting and Power Distribution System, Street FH PR	120 days	Wed 16/11/22	Wed 15/03/23	Wed 16/11/22	Wed 15/03/...	0 days	1227	1234,1232	BS - A x 4~6 men
1232	1232	5.36.1.2.5.2	Lightning Protection System, Street FH PR	30 days	Thu 16/03/23	Fri 14/04/23	Thu 16/03/23	Fri 14/04/23	0 days	1231	1233,1234	BS - A x 4~6 men
1233	1233	5.36.1.2.5.3	Mechanical Ventilation System, Street FH PR	14 days	Sat 15/04/23	Fri 28/04/23	Sat 15/04/23	Fri 28/04/23	0 days	1232	1234	MVAC - A x 4~6 men
1234	1234	5.36.1.2.5.4	Testing and Commissioning of Building Services Installations, FH PI	120 days	Sat 29/04/23	Sat 26/08/23	Sat 29/04/23	Sat 26/08/23	145 days	1231,1232,1	1199FF	
1235	**1235**	**5.37**	**Plumbing Installation (PS 6B.6.8)**	**1049 days**	**Tue 16/02/21**	**Tue 02/01/24**	**Tue 16/02/21**	**Tue 02/01/24**	**0 days**			
1236	1236	5.37.1	Planned Sectional Completion Date - Section 1, Plumbing	0 days	Thu 01/07/21	Thu 01/07/21	Thu 01/07/21	Thu 01/07/21	0 days	1238FF		
1237	**1237**	**5.37.2**	**Design Submissions for Plumbing**	**134 days**	**Tue 16/02/21**	**Wed 30/06/21**	**Tue 16/02/21**	**Wed 30/06...**	**1 day**			
1238	1238	5.37.2.1	CDS033 - Detailed Design for Plumbing System	134 edays	Tue 16/02/21	Wed 30/06/21	Tue 16/02/21	Wed 30/06/...	0.63 edays	154	1241,1236FF	
1239	**1239**	**5.37.3**	**Site Installation Work**	**915 days**	**Thu 01/07/21**	**Tue 02/01/24**	**Thu 01/07/21**	**Tue 02/01/24**	**0 days**			
1240	1240	5.37.3.1	Commencement of Plumbing Installation	915 days	Thu 01/07/21	Tue 02/01/24	Thu 01/07/21	Tue 02/01/24	0 days			
1241	1241	5.37.3.1.1	Submission of detail design for acceptance	90 days	Thu 01/07/21	Tue 28/09/21	Thu 01/07/21	Tue 28/09/21	0 days	1238	1242	Pb - A x 4~6 men
1242	1242	5.37.3.1.2	Submission of WWO542 for WSD's approval	355 days	Wed 29/09/21	Sun 18/09/22	Wed 29/09/21	Sun 18/09/22	118 days	1241	356,485,596,771	Pb - B x 4~6 men
1243	1243	5.37.3.1.3	Connection of External Pumping System (By others)	0 days	Fri 15/09/23	Fri 15/09/23	Fri 15/09/23	Fri 15/09/23	17 days		1244	
1244	1244	5.37.3.1.4	Submission of WWO46 for WSD's Inspection	45 days	Mon 02/10/23	Wed 15/11/23	Mon 02/10/23	Wed 15/11/23	0 days	1243,356,485	1245	
1245	1245	5.37.3.1.5	Obtain WWO46 Part V	45 days	Thu 16/11/23	Sat 30/12/23	Thu 16/11/23	Sat 30/12/23	2 days	1244	1246	
1246	1246	5.37.3.1.6	Tentative Date for connection of external water pipework (by others)	0 days	Tue 02/01/24	Tue 02/01/24	Tue 02/01/24	Tue 02/01/24	0 days	1245		
1247	**1247**	**5.38**	**Photovoltaic Power System (PS 6B.6.11)**	**1128 days**	**Mon 01/03/21**	**Mon 01/04/24**	**Mon 01/03/21**	**Mon 01/04...**	**0 days**			
1248	1248	5.38.1	Planned Sectional Completion Date - Section 1, BR 2A & 2B	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/...	0 days	1258FF		
1249	1249	5.38.2	Planned Sectional Completion Date - Section 2, BR 2A & 2B	0 days	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/...	0 days	1266FF		
1250	**1250**	**5.38.3**	**Selection of Suppliers for major plant and materials for BR 2A & 2B**	**73 days**	**Mon 01/03/21**	**Wed 12/05/21**	**Mon 01/03/21**	**Wed 12/05/21**	**29 days**			
1251	**1251**	**5.38.3.1**	**PV System (EQT041)**	**73 days**	**Mon 01/03/21**	**Wed 12/05/21**	**Mon 01/03/21**	**Wed 12/05...**	**29 days**			
1252	1252	5.38.3.1.1	Submission for acceptance of purchasing package	30 days	Mon 01/03/21	Tue 30/03/21	Mon 01/03/21	Tue 30/03/21	0 days	1253		
1253	1253	5.38.3.1.2	Invitation of quotations for purchasing package	21 days	Wed 31/03/21	Tue 20/04/21	Wed 31/03/21	Tue 20/04/21	0 days	1252	1254	
1254	1254	5.38.3.1.3	Acceptance of conforming quotation	21 days	Wed 21/04/21	Tue 11/05/21	Wed 21/04/21	Tue 11/05/21	0 days	1253	1255	
1255	1255	5.38.3.1.4	Commencement of Design Work	1 day	Wed 12/05/21	Wed 12/05/21	Wed 12/05/21	Wed 12/05/21	0 days	1254	1257	
1256	**1256**	**5.38.4**	**Design Submissions**	**49 days**	**Wed 12/05/21**	**Wed 30/06/21**	**Wed 12/05/21**	**Wed 30/06...**	**12 days**			
1257	1257	5.38.4.1	CDS060 - Detailed Design for PV System	45 edays	Wed 12/05/21	Sat 26/06/21	Wed 12/05/21	Sat 26/06/21	0.63 edays	1255	1258	
1258	1258	5.38.4.2	Complete the CLP's Electronic Application Form and Upload Required D	4 days	Sun 27/06/21	Wed 30/06/21	Sun 27/06/21	Wed 30/06/...	0 days	1257	1248FF,1260	
1259	**1259**	**5.38.5**	**Material ordering and delivery to site**	**767 days**	**Thu 01/07/21**	**Sun 06/08/23**	**Thu 01/07/21**	**Sun 06/08/23**	**59 days**			
1260	1260	5.38.5.1	Manufacturing and Factory Acceptance Test of Plant	150 days	Thu 01/07/21	Sat 27/11/21	Thu 01/07/21	Sat 27/11/21	572 days	1258	1261	
1261	1261	5.38.5.2	Shipping and Delivery of Plant to site	45 days	Fri 23/06/23	Sun 06/08/23	Fri 23/06/23	Sun 06/08/23	0 days	1260,1263S	1264	
1262	**1262**	**5.38.6**	**Site Installation Work**	**345 days**	**Thu 23/02/23**	**Fri 02/02/24**	**Thu 23/02/23**	**Fri 02/02/24**	**0 days**			
1263	1263	5.38.6.1	Tentative Civil Handover Date, Portion B-4, BR2A & 2B (Rev. 5)	1 day	Thu 23/02/23	Thu 23/02/23	Thu 23/02/23	Thu 23/02/23	0 days		1261SS+120 edays	
1264	1264	5.38.6.2	Commencement of Site Installation Work	90 days	Mon 07/08/23	Sat 04/11/23	Mon 07/08/23	Sat 04/11/23	0 days	1261	1265	PV - A x 4~6 men
1265	1265	5.38.6.3	Technical Assessment, System Test and Installation	60 days	Sun 05/11/23	Wed 03/01/24	Sun 05/11/23	Wed 03/01/...	0 days	1264	1266	PV - A x 4~6 men
1266	1266	5.38.6.4	CLP's smart meter installation and Final on-grid test with CLP	30 days	Thu 04/01/24	Fri 02/02/24	Thu 04/01/24	Fri 02/02/24	59 days	1265	1249FF	
1267	**1267**	**5.39**	**Plant Commissioning**	**240 days**	**Tue 12/09/23**	**Wed 08/05/24**	**Tue 12/09/23**	**Wed 08/05...**	**0 days**		**39FF**	
1268	1268	5.39.1	Planned Sectional Completion Date - Section 4, Plant Commissioning	0 days	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/...	0 days			
1269	**1269**	**5.39.2**	**Design Submission for Treatment Process Plant Testing & Commissionin**	**90 days**	**Wed 01/11/23**	**Mon 29/01/24**	**Wed 01/11/23**	**Mon 29/01...**	**105 days**			
1270	1270	5.39.2.1	Document Submission and Resubmission for T&C procedures	90 days	Wed 01/11/23	Mon 29/01/24	Wed 01/11/23	Mon 29/01/24	105 days	1271FF-120 d		
1271	1271	5.39.3	System Commissioning Tests of the E&M systems at IW, PST, BR 2A&2B, I	7 days	Thu 08/02/24	Wed 14/02/24	Thu 08/02/24	Wed 14/02/...	0 days	924,970,99(	1272,1270FF-120 days	
1272	1272	5.39.4	MBR System Process Startup	35 days	Thu 15/02/24	Wed 20/03/24	Thu 15/02/24	Wed 20/03/...	0 days	1271	1273	
1273	1273	5.39.5	Plant Commissioning	35 days	Thu 21/03/24	Wed 24/04/24	Thu 21/03/24	Wed 24/04/...	0 days	1272	1276	
1274	1274	5.39.6	Overall commissioning of CCTV system	30 days	Tue 12/09/23	Wed 11/10/23	Tue 12/09/23	Wed 11/10/23	196 days	357,486,597,	1276	
1275	1275	5.39.7	Overall commissioning of Facility Computerized Systems (SCADA, CMMS, PMS, ID	28 days	Mon 11/12/23	Sun 07/01/24	Mon 11/12/23	Sun 07/01/24	108 days	349,478,763,	1276	
1276	1276	5.39.8	Overall Plant Commissioning and DSD pre-handover inspections	14 days	Thu 25/04/24	Wed 08/05/24	Thu 25/04/24	Wed 08/05/24	5 days	1273,1274,12		
1277	**1277**	**5.40**	**CE No. 009 - Provision of an Additional Primary Sludge Thickening System**	**375 days**	**Tue 14/07/20**	**Fri 23/07/21**	**Tue 14/07/20**	**Fri 23/07/21**	**0 days**			
1278	1278	5.40.1	Detail Design Submission and Approval	77 days	Tue 14/07/20	Mon 28/09/20	Tue 14/07/20	Mon 28/09/...	0 days		1280	
1279	1279	5.40.2	Subletting, Procurement, Manufacturing and Delivery	120 days	Fri 31/07/20	Fri 27/11/20	Fri 31/07/20	Fri 27/11/20	0 days			
1280	1280	5.40.3	Site Installation	270 days	Sat 17/10/20	Tue 13/07/21	Sat 17/10/20	Tue 13/07/21	0 days	1278	1281	
1281	1281	5.40.4	Testing and Commissioning	10 days	Wed 14/07/21	Fri 23/07/21	Wed 14/07/21	Fri 23/07/21	0 days	1280	1282FF	
1282	1282	5.40.5	Planned Completion Date	1 day	Fri 23/07/21	Fri 23/07/21	Fri 23/07/21	Fri 23/07/21	0 days	1281FF		



Bestwise
Project: DE/2018/04
Date: 27/08/21

Task | Milestone | Project Summary | Late | Critical Split | Manual Progress | Milestone (Actual)
Milestone, Tentative | Summary | Manual Summary | Critical | Progress | Slack (Float) | Slack

ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
1283	**1283**	**6**	**Beam Plus Submissions**	**1450 days**	**Fri 01/05/20**	**Fri 19/04/24**	**Fri 01/05/20**	**Fri 19/04/24**	**0 days**			
1284	1284	6.1	SA10 - Environmental Management Plan	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1285	1285	6.2	SA11 - Air Pollution During Construction	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1286	1286	6.3	SA12 - Noise During Construction	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1287	1287	6.4	SA14 - Noise from Building Equipment	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1288	1288	6.5	SA15 - Light Pollution	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1289	1289	6.6	MAP1 - Timber used for Temporary Works	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1290	1290	6.7	MAP2 - Use of Non-CFC Based Refrigerants	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1291	1291	6.8	MAP3 - Waste Management Plan	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1292	1292	6.9	MA2 - Modular and Standardized Design	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1293	1293	6.10	MA8 - Ozone Depleting Substances	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1294	1294	6.11	MA11 - Construction Waste Reduction	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1295	1295	6.12	EUP1 - Minimum Energy Performance	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1296	1296	6.13	EU1 - Reduction of CO2 Emissions	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1297	1297	6.14	EU2 - Peak Electricity Demand Reduction	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1298	1298	6.15	EU6 - Renewable Energy Systems	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1299	1299	6.16	EU9 - Energy Efficient Appliances	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1300	1300	6.17	EU10 - Testing and Commissioning	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1301	1301	6.18	EU11 - Operation and Maintenance	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1302	1302	6.19	EU12 - Meter and Monitoring	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1303	1303	6.20	WUP1 - Water Quality Survey	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1304	1304	6.21	WUP2 - Minimum Water Saving Performance	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1305	1305	6.22	WU1 / WU6 - Annual Water Use / Effluent Discharge to Foul Sewers	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1306	1306	6.23	IEQP1 - Minimum Ventilation Performance	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1307	1307	6.24	IEQ1 - Security	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1308	1308	6.25	IEQ2 - Plumbing and Drainage	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1309	1309	6.26	IEQ3 - Biological Contamination	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1310	1310	6.27	IEQ5 - Construction IAQ Management	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1311	1311	6.28	IEQ6 / IEQ7 - IAQ	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1312	1312	6.29	IEQ9 - Increased Ventilation	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1313	1313	6.30	IEQ11 - Localised Ventilation	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1314	1314	6.31	IEQ12 - Ventilation in Common Areas	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1315	1315	6.32	IEQ13 - Thermal Comfort in Air - Conditioned Premises	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1316	1316	6.33	IEQ16 / IEQ17 - Interior Lighting in Normally Occupied Area / Interior Lighting in Areas not Normally Occupied	1450 days	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	19 days		39	
1317	**1317**	**7**	**Summary of compensation events notified**	**487 days**	**Tue 25/02/20**	**Fri 25/06/21**	**Tue 25/02/20**	**Fri 25/06/21**	**0 days**			
1318	1318	7.1	Compensation Event (CE) No. 001, Special Arrangement in Reducing the Risk	1 day	Tue 25/02/20	Tue 25/02/20	Tue 25/02/20	Tue 25/02/20	0 days			
1319	1319	7.2	Compensation Event (CE) No. 002, the Contractor's Site Accommodation by	1 day	Mon 08/06/20	Mon 08/06/20	Mon 08/06/20	Mon 08/06/...	0 days			
1320	1320	7.3	Compensation Event (CE) No. 003, Designated Area for the Contractor's Site	1 day	Wed 22/04/20	Wed 22/04/20	Wed 22/04/20	Wed 22/04/...	0 days			
1321	1321	7.4	Compensation Event (CE) No. 005, Designated Area for the Contractor's Stor	1 day	Wed 22/04/20	Wed 22/04/20	Wed 22/04/20	Wed 22/04/...	0 days			
1322	1322	7.5	Compensation Event (CE) No. 007, Employment of Temporary Staff under Ai	1 day	Fri 10/07/20	Fri 10/07/20	Fri 10/07/20	Fri 10/07/20	0 days			
1323	1323	7.6	Compensation Event (CE) No. 009, Provision of an Additional Primary Sludge	1 day	Wed 15/07/20	Wed 15/07/20	Wed 15/07/20	Wed 15/07/...	0 days			
1324	1324	7.7	Compensation Event (CE) No. 011, Dismantling, relocating, disconnecting an	1 day	Wed 14/04/21	Wed 14/04/21	Wed 14/04/21	Wed 14/04/...	0 days			
1325	1325	7.8	NCE-PPMI-0202 (CE) Revised GA for F.S. & Sprinkler Pumping Room and Emergency Generator Room	1 day	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	0 days			
1326	1326	7.9	NCE-PPMI-0203 (CE) Revised General Arrangement for Temp. Chemical Syst	1 day	Tue 15/12/20	Tue 15/12/20	Tue 15/12/20	Tue 15/12/20	0 days			
1327	1327	7.10	NCE-PPMI-0204 (CE) Revised GA Layout Plan for DO Sys. No. 3A	1 day	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	0 days			
1328	1328	7.11	NCE-PPMI-0205 (CE) Provision of Louvre Panel for Outdoor AC Units at Contractor's Site Accommodation	1 day	Mon 17/05/21	Mon 17/05/21	Mon 17/05/21	Mon 17/05/21	0 days			
1329	1329	7.12	NCE-PPMI-0206 (CE) Modification of Feeders of the existing switchboards at Inlet Work and Provision of MCB Distribution Boards and Cables for Sidewide Submersible Pumps	1 day	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	0 days			
1330	1330	7.13	NCE-PPMI-0207 (CE) Modification of Feeders of the existing switchboards at Inlet Consolidation House and Provision of MCB Distribution Boards and Cables for Sidewide Submersible Pumps	1 day	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	0 days			
1331	1331	7.14	NCE-PPMI-0208 (CE) Modification of Feeders of the existing switchboards at Membrane Facilities Building and Provision of MCB Distribution Boards and Cables for Sidewide Submersible Pumps	1 day	Fri 25/06/21	Fri 25/06/21	Fri 25/06/21	Fri 25/06/21	0 days			



ID	ID	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Free Slack	Predecessors	Successors	Resource Names
1332	1332	7.15	NCE-PPMI-0211 (CE) Provision of a New Chemical Storage and Dosing System fo the Application of Glycerin to Replace Methanol as an Alternative External Carbon Source for the Denitrification Process at BR2A and BR2B	1 day	Wed 08/07/20	Wed 08/07/20	Wed 08/07/20	Wed 08/07/20	0 days			
1333	1333	7.16	NCE-PPMI-0213 (CE) Revised General Arrangement for Chemical System No.	1 day	Tue 05/01/21	Tue 05/01/21	Tue 05/01/21	Tue 05/01/21	0 days			
1334	1334	7.17	NCE-PMI-0219 (CE) Provision and Removal of the Blank Flange to Blank Off Drain Valve and Temporary Submersible Pumps in PST No. 6	1 day	Thu 22/04/21	Thu 22/04/21	Thu 22/04/21	Thu 22/04/21	0 days			
1335	1335	7.18	NCE-PMI-0223 (CE) Revised GA for Chemical Pipe Trench	1 day	Wed 07/04/21	Wed 07/04/21	Wed 07/04/21	Wed 07/04/...	0 days			
1336	1336	7.19	NCE-PMI-0226 (CE) Modification Works of Manhole Cover for MHD13 for Filtrate Intake Pipe of Primary Sludge Thickening System	1 day	Fri 30/04/21	Fri 30/04/21	Fri 30/04/21	Fri 30/04/21	0 days			
1337	1337	7.20	NCE-PMI-0227 (CE) Provision of Project Jackets with Fleece Vests	1 day	Thu 29/04/21	Thu 29/04/21	Thu 29/04/21	Thu 29/04/21	0 days			
1338	1338	7.21	NCE-PMI-0234 (CE) Provision of removal of the blank flange to blank off drain valve of PST No. 4	1 day	Tue 25/05/21	Tue 25/05/21	Tue 25/05/21	Tue 25/05/21	0 days			