CONTRACT NO. SPW 12/2021

SHEK WU HUI EFFLUENT POLISHING PLANT – MAIN WORKS

UNDER FURTHER ENVIRONMENTAL PERMIT NO. FEP-02/474/2013

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

MARCH 2023

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Contract No. SPW 12/2021

Shek Wu Hui Effluent Polishing Plant – Main Work

Monthly Environmental Monitoring & Audit Report

March 2023

(April 2023)

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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – March 2023 of Shek Wu Hui Effluent Polishing Plant – Main Work under Further Environmental Permit no. FEP-02/474/2013 (Hereafter as "the Project"). This is the 19th EM&A report prepared by Environmental Team under Contract No. SPW 12/2021, presenting the environmental monitoring findings and information recorded during the period of 1 March 2023 to 31 March 2023. The cut-off date of reporting is at the end of each reporting month.

ii. In the reporting month, the principal work activities of individual contracts are conducted as follows:

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

- RC works
- Backfilling
- Sewage, utility and pipe works
- ABWF works
- Excavation and Lateral Support
- Construction of Outfall at Ng Tung River

Contract No. DC/2018/07 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – Civil Works for Sewage Treatment Facilities

- ELS works
- Sheet piling
- Excavation
- RC works
- Pipe laying

Contract No. DE/2018/03 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – Sidestream Treatment Facilities and EM&M Works for Sludge Treatment Facilities

- Superstructure works
- Electrical Installation
- Pipework Installation
- MFA and AFA Installation
- SPR Installation
- Plumbing installation
- MVAC Installation
- EOT and Monorail Installation
- Bio-Gas Holding tank Installation
- Penstock and Stoplog Installation

- Delivery and Installation of THP System

Contract No. DE/2018/04 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – E&M Works for Sewage Teatment Facilities

- Improvement Works for Temporary Primary Sludge Thickener and its accessories
- E&M works for Leachate Pre-treatment Plant at existing compressor house.

Air Quality Monitoring

iii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring was conducted at two monitoring station. 24-hour TSP shall be sampled at least once in every 6 days, while sampling for 1-hour TSP shall be at least 3 times in every 6 day in the reporting month.

iv. No action or limit level exceedance was recorded in this reporting period.

v. Power failure was encountered at AM2a on 31 March 2023, so the 24hr AQM for AM2a was temporarily suspended.

Noise Monitoring

vi. Noise monitoring was conducted at three noise monitoring stations once per week in the reporting month.

vii. No action or limit level exceedance was recorded in this reporting period.

Ecological Monitoring

viii. Ecological monitoring 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.

ix. No Action or Limit level was triggered in the reporting month.

Water Quality Monitoring

x. Water quality monitoring was conducted at two monitoring stations three days per week in the reporting month.

xi. Sixteen (16) limit level exceedances and three (3) action level exceedances were recorded in the reporting month. After investigation, all recorded exceedances were considered non-project related.

Site Inspections and Audit

xii. The Environmental Team (ET) conducted weekly site inspections on 7(DE/2018/03 and DE/2018/04), 9(DC/2018/06 and DC/2018/07), 14, 21 and 28 March 2023 and biweekly landscape inspection on 14 and 28 March 2023. IEC attended the joint site inspection on 14 March 2023. No non-compliance was found during the site inspection while reminders on environmental measures were recommended.

Complaints, Notifications of Summons and Successful Prosecutions

xiii. No environmental complaint, notification of summons and successful prosecution regarding the construction works was recorded in the reporting period.

Reporting Changes

xiv. There are no particular reporting changes.

Future Key Issues

xv. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

- RC works
- Backfilling
- ESL sheet pipe removal
- Sewage, utility and pipe works
- ABWF works
- Construction of Outfall at Ng Tung River

Contract No. DC/2018/07 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – Civil Works for Sewage Treatment Facilities

- ELS works
- Sheet piling
- RC works
- Excavation
- Pile laying

Contract No. DE/2018/03 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – Sidestream Treatment Facilities and EM&M Works for Sludge Treatment Facilities

- Superstructure works
- Electrical Installation
- Pipework Installation
- MFA and AFA Installation
- SPR Installation
- Plumbing installation
- MVAC Installation
- EOT and Monorail Installation
- Bio-Gas Holding tank Installation
- Penstock and Stoplog Installation
- Delivery and Installation of THP System

Contract No. DE/2018/04 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – E&M Works for Sewage Teatment Facilities

- Improvement works for Temporary Primary Sludge Thickener and its accessories.
- E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System.
- E&M works at Portion B-3, Primary Sedimentation Tanks No. 1-4.
- E&M & civil works for Leachate Pre-treatment Plant at existing compressor house and BR No 3&4.

1 Introduction

1.1 Scope of the Report

1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) under Environmental Permit (EP) No. FEP-02/474/2013 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for North East New Territories New Development Areas (Register No.: AEIAR-175/2013).

1.1.2. In accordance with Clause 3.4 stated in FEP-02/474/2013, 3 hard copies and 2 electronic copies of Monthly EM&A Report shall be submitted to the Director within 10 working days after the end of each reporting month throughout the entire construction period.

1.1.3. According to Section 9.4.1.1 of the Project EM&A Manual, the Monthly EM&A Report should be submitted within 10 working days at the end of each reporting month, with the first report due in the month after construction commences.

1.2 Structure of the Report

Section 1 ***Introduction*** – details the scope and structure of the report.

Section 2 ***Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.

Section 3 ***Status of Regulatory Compliance*** – summarizes the status of valid Environmental Permits / Licenses during the reporting period.

Section 4 ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.

Section 5 ***Monitoring Results*** – summarizes the monitoring results obtained in the reporting period.

Section 6 ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.

Section 7 **Environmental Site Audit** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

Section 8 ***Complaints, Notification of summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution

Section 9 ***Conclusion***

2 Project Background

2.1 Background

2.1.1. The existing Shek Wu Hui Sewage Treatment Works (SWHSTW) has been operating and maintaining for 30 years 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 years. In 1984, Stage I of SWHSTW was commissioned with design capacity of 60,000 cubic meters per day (m^3 /day) at Average Dry Weather Flow (ADWF). In 2001, Stage II of SWHSTW was completed with design capacity enhanced to 80,000 m^3 /day at ADWF. In 2009, the expansion of SWHSTW was completed and its design capacity was increased to 93,000m^3 /day at ADWF.

2.1.2. Further expansion of SWHSTW has been planned to be carried out in order to cope with the forecast increase in flow from Fanling North and Kwu Tong North New Development Area (NDA) and other NDAs and developments in three phases, namely Phase 1A, 1B and 2, which are later revised to Main Works Stage 1, Stage 2 and Stage 3 respectively. The EIA study report (Register No.: AEIAR-175/2013) for the NENT NDAs Study covered the assessment for the Further Expansion of SWHSTW, which is a designated project under item F.1 and F.2 of Part 1, Schedule 2 of the EIA Ordinance. The location of the project site is shown in ***Figure 2.1.***

A Further EP was applied on 18 January 2018 to assume the responsibility for constructing and operating the SWHEPP Project up to a capacity of 190,000 m^3/day. The Further EP No. FEP-02/474/2013 was issued to DSD as permit holder on 15 February 2018. Due to overlapping of scope with the Further EP currently in force, the Further EP No. FEP-01/474/2013 was subsequently surrendered on 15 August 2018.

2.2 Project Organization and Contact Personnel

2.2.1 Drainage Service Department (DSD) is the overall project controllers for the Project. For the construction phase of the Project, Engineer's Representative, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.

2.2.2 The project organization and lines of communication with respect to environmental protection works are shown in ***Figure 2.2***. Key personnel and contact particulars are summarized in ***Table 2.1***.

Table 2.1 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.
Drainage Services Department (DSD)	Permit Holder	CPC	Mr. Hanes Hui	2594 7459
AECOM	Supervisor Representative	Resident Engineer	Mr. Alex Leung	3907 6145
Kwan Lee - Chun Wo Joint Venture	Contractor (DC/2018/06)	Environmental Engineer	Ms. Ruby Hui	6218 6408
		Assistant Environmental Engineer	Mr. Marco Chan	6235 6017
	Contractor (DC/2018/07)	Environmental Engineer	Ms. Tiffany Choi	9789 1027
JEC	Contractor (DE/2018/03)	Environmental Officer	Ms. Juliet Ting	6826 7319
Bestwise	Contractor (DE/2018/04)	Environmental Officer	Mr. Albus Cheung	9731 0831
Meinhardt Infrastructure and Environment Ltd.	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Ms. Claudine Lee	9612 9229
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939

2.3 Construction Activities

2.3.1 In the reporting month, the principal work activities conducted of individual contracts are as follow. The layout plans showing the locations of reported construction activities, key PME used for the works contracts and site record photos are shown in ***Appendix 2.1***.

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

- RC works
- Backfilling
- Sewage, utility and pipe works
- ABWF works
- Excavation and Lateral Support
- Construction of Outfall at Ng Tung River

Contract No. DC/2018/07 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – Civil Works for Sewage Treatment Facilities

- ELS works
- Sheet piling
- Excavation
- RC works
- Pile laying

Contract No. DE/2018/03 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – Sidestream Treatment Facilities and EM&M Works for Sludge Treatment Facilities

- Superstructure works
- Electrical Installation
- Pipework Installation
- MFA and AFA Installation
- SPR Installation
- Plumbing installation
- MVAC Installation
- EOT and Monorail Installation
- Bio-Gas Holding tank Installation
- Penstock and Stoplog Installation
- Delivery and Installation of THP System

Contract No. DE/2018/04 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – E&M Works for Sewage Treatment Facilities

- Improvement Works for Temporary Primary Sludge Thickener and its accessories
- E&M works for Leachate Pre-treatment Plant at existing compressor house

2.3.2 The number of key PME and their working locations are shown in ***Table 2.2***.

Table 2.2 Summary of key PME and working locations of works contracts

Works Contract	Key PME	Number	Working locations
DC/2018/06	Excavator	6	Section 4, SDB, Outfall, SD, Jacking Pit, Transformer and Switchroom
	Tower Crane	1	Near Workshop No.2
	Mobile generator	1	Near Workshop No.2
	Scissor lift platform	4	SDB and CHP
DC/2018/07	Excavator	15	BR2, Inlet, MFB, PST and SAS
	Generator	3	BR2, MFB, PST and Inlet
	Air compressor	1	Inlet
	Mobile Crane	4	PST, MFB and Inlet
	Handheld breaker	1	Area D
DE/2018/03	Generator	6	UV No.1, Sidestream and Workshop No.2
	Tower Crane	1	Sidestream
DE/2018/04	-	-	-

2.3.3 In coming reporting month, the scheduled construction activities of individual contracts are listed as follows:

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

- RC works
- Backfilling
- ESL sheet pipe removal

- Sewage, utility and pipe works
- ABWF works
- Construction of Outfall at Ng Tung River

Contract No. DC/2018/07 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – Civil Works for Sewage Treatment Facilities

- ELS works
- Sheet piling
- RC works
- Excavation
- Pile Laying

Contract No. DE/2018/03 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – Sidestream Treatment Facilities and EM&M Works for Sludge Treatment Facilities

- Superstructure works
- Electrical Installation
- Pipework Installation
- MFA and AFA Installation
- SPR Installation
- Plumbing installation
- MVAC Installation
- EOT and Monorail Installation
- Bio-Gas Holding tank Installation
- Penstock and Stoplog Installation
- Delivery and Installation of THP System

Contract No. DE/2018/04 – Shek Wu Hui Effluent Polishing Plant – Main Works Stage 1 – E&M Works for Sewage Treatment Facilities

- Improvement works for Temporary Primary Sludge Thickener and its accessories.
- E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System.
- E&M works at Portion B-3, Primary Sedimentation Tanks No. 1-4.
- E&M & civil works for Leachate Pre-treatment Plant at existing compressor house and BR No 3&4.

3 Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in ***Table 3.1 to 3.4***.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project under Contract No. DC/2018/06

Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
Environmental Permit	FEP-02/474/2013	15 Feb 2018	N/A	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	449210 (Portion A & C)	23 Sep 2019	N/A	Valid
	449211 (WM1)	23 Sep 2019	N/A	Valid
Water Pollution Ordinance Licence	WT00035431-2019 (Portion C)	27 Jul 2020	31 Jan 2025	Valid
	WT00035718-2020 (Portion A)	02 Apr 2020	30 Apr 2025	Valid
Billing Account for Disposal of Construction Waste	7035390	11 Oct 2019	N/A	Valid
Registration as a Chemical Waste Producer	5213-624-K3371-01	14 Nov 2019	N/A	Valid
Construction Noise Permit	GW-RN0219-23	1 Mar 2023	30 Jun 2023	Valid

Table 3.2 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project under Contract No. DC/2018/07

Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
Environmental Permit	FEP-02/474/2013	15 Feb 2018	N/A	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	449210	23 Sep 2019	N/A	Valid
Water Pollution Ordinance Licence	WT00035727-2020	1 Apr 2020	30 Apr 2025	Valid
Billing Account for Disposal of Construction Waste	7035985	9 Dec 2019	N/A	Valid
Registration as a Chemical Waste Producer	5213-624-K3371-02	6 Jan 2020	N/A	Valid
Special Waste	17144	17 Nov 2022	16 May 2023	Valid
Construction Noise Permit	GW-RN0219-23	1 Mar 2023	30 Jun 2023	Valid

Table 3.3 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project under Contract No. DE/2018/03

Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
Environmental Permit	FEP-02/474/2013	15 Feb 2018	N/A	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	455843 (WA3)	6 May 2020	N/A	Valid
	457212 (WA1-B)	15 Jun 2020	N/A	Valid
	460065 (Sidestream)	16 Sep 2020	N/A	Valid
Water Pollution Ordinance Licence	WT00037220-2020	16 Mar 2021	31 Jan 2026	Valid
Billing Account for Disposal of Construction Waste	7035700	6 Nov 2019	N/A	Valid
Registration as a Chemical Waste Producer	5213-624-T3861-01	14 Apr 2020	N/A	Valid
Construction Noise Permit	GW-RN1190-22	8 Dec 2022	7 Apr 2023	Valid

Table 3.4 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project under Contract No. DE/2018/04

Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
Environmental Permit	FEP-02/474/2013	15 Feb 2018	N/A	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	460181	17 Sep 2020	N/A	Valid
Billing Account for Disposal of Construction Waste	703621912	2 Jan 2020	N/A	Valid
Registration as a Chemical Waste Producer	5213-624-B2592-01	7 Jul 2020	N/A	Valid

3.1.2. Implementation status of the recommended mitigation measures during this report month is presented in ***Appendix 3.1***.

3.2 Summary of submission status under FEP-02/474/2013

3.2.1 A summary of the current status on submission under FEP-02/474/2013 is shown in ***Table 3.5***.

Table 3.5 Summary of submission status under FEP-02/474/2013

EP Condition	Submission	Status
Condition 1.12	Commencement date of construction of the Project	Notified EPD on 8 Oct 2019
Condition 2.3 & 3.1	Updated EM&A Manual	The Manual was confirmed of no further comments by EPD on 17 Jan 2020
Condition 2.4	Management Organization of Main Construction Companies for Contract No.DC/2018/06	Informed EPD on 19 Nov 2019
Condition 2.4	Management Organization of Main Construction Companies for Contract No. DC/2018/07	Informed EPD on 20 Dec 2019
Condition 2.4	Management Organization of Main Construction Companies for Contract No. DE/2018/03	Informed EPD on 19 Feb 2020
Condition 2.4	Management Organization of Main Construction Companies for Contract No. DE/2018/04	Informed EPD on 15 Feb 2020
Condition 2.4	Replacement of Environmental Team Leader	Informed EPD on 13 Sep 2021
Condition 2.4	Replacement of Independent Environmental Checker	Informed EPD on 13 Sep 2021
Condition 2.5	Location Plans for Contract No. DC/2018/06	Deposited to EPD on 19 Nov 2019
Condition 2.5	Location Plans for Contract No. DC/2018/07	Deposited to EPD on 20 Dec 2019
Condition 2.5	Location Plans for Contract No. DE/2018/03	Deposited to EPD on 15 Feb 2020
Condition 2.5	Location Plans for Contract No. DE/2018/04	Deposited to EPD on 18 Sep 2020
Condition 2.6	Submission of Landscape Plan	Pending for revision
Condition 3.3	Baseline Monitoring Report (Ecology)	The Report was first submitted to IEC for review on 22 Nov 2019, and verified on 29 Nov 2019
Condition 3.3	Baseline Monitoring Report	The Report will be submitted to EPD at least 6 weeks before the commencement of Corresponding parts of landscape and visual mitigation measures of the Project

4 Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in ***Table 4.1*** and ***Figure 4.1***. ***Appendix 4.1*** shows the established Action/Limit Levels for the monitoring works.

Table 4.1 Noise Monitoring Station

Monitoring Station ID	Location
NM1	Wai Loi Tsuen
NM2(1)	Fu Tei Au
NM3	Man Kok Village

(1) Due to close proximity to construction works and heavy machines from another construction project, the air and noise monitoring at AM2 /NM2 (Fu Tei Au) were proposed to be conducted at AM2*/NM2* (Footbridge between Fu Tei Au and SWHSTW) from November 2022 to February 2023. The air and noise monitoring were resumed to be conducted at AM2/ NM2 in March 2023 since the completion of the nearby construction works.

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.2. The monitoring parameters, frequency and duration of noise monitoring are summarized in ***Table 4.2***.

Table 4.2 Noise Monitoring Parameters, Frequency and Duration

Monitoring Period	Duration	Sampling Parameter	Sampling Period(1)	Frequency
Impact Monitoring	Throughout the construction phase	1 set of Leq (30 min)	between 0700-1900 hours on normal weekdays;	on a per week basis when noise generating activities are underway

Remark (1): Additional weekly impact monitoring shall be carried out during evening and night-time works if construction works are extended to include works during the hours of 1900-0700

MONITORING EQUIPMENT

4.1.3. Noise monitoring was performed using sound level meter at the designated monitoring locations. The sound level meters shall comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator shall be deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in ***Table 4.3***.

Table 4.3 Noise Monitoring Equipment

Equipment	Brand and Model	Series Number	Expiry Date
Integrated Sound Level Meter	B&K 2250-L	2722311	12-May-2023
Acoustic Calibrator	LD CAL200	13437	04-Nov-2023

4.1.4. The calibration certificates of the noise monitoring equipment are attached in ***Appendix 4.2***.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

4.1.5. Monitoring Procedure

(a) Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s

(b) The monitoring station shall normally be at a point 1 m from the exterior of the sensitive receiver building facade and be at a position 1.2 m above the ground. If there is problem with access to the normal monitoring position, an alternative position may be chosen, and a correction to the measurements shall be made. For reference, a correction of +3 dB(A) shall be made to the free field measurements.

(c) The battery condition was checked to ensure the correct functioning of the meter.

(d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

- Frequency weighting: A
- Time weighting: Fast
- Time measurement: Leq (30min) for noise monitoring

(e) 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 recalibration or repair of the equipment.

(f) The wind speed was checked with the portable wind meter before noise monitoring.

(g) At the end of the monitoring period, the Leq, L90 and L10 were recorded. In addition, site conditions and noise sources were recorded on a record sheet.

4.1.6. Maintenance and Calibration

(a) The microphone head of the sound level and calibrator would be cleaned with soft cloth regularly.

(b) The noise monitoring equipment shall be calibrated annually.

CONSTRUCTION NOISE LEVEL

4.1.7. The construction noise level refers the corrected noise level based on the calculated difference between SPL of the Measured Noise Level and the SPL of the Baseline Noise Level. In the event of the Baseline Noise Level exceeds the Measured Noise Level, no correction would be applied and the Construction Noise Level would be indicated as below baseline noise level (<BL).

EVENT AND ACTION PLAN

4.1.8. Noise Standards for Daytime Construction Activities are specified under EIAO-TM. The Action and Limit levels for construction noise are defined in ***Table 4.4*** and ***Appendix 4.1.*** Should non-compliance of the criteria occurs, action in accordance with the Event and Action Plan in ***Appendix 6.1*** shall be carried out.

Table 4.4 Action and Limit Level for Noise Monitoring

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

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring stations for the Project are listed and shown in ***Table 4.5*** and ***Figure 4.2***.

Table 4.5 Air Monitoring Station

Monitoring Station ID	Location	Measurement
AM1	House No. 15, Wai Loi Tsuen	1-hour TSP
AM2 (1)	Fu Tei Au	1-hour TSP
AM1a* (2)	Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW	24-hour TSP
AM2a	Site boundary of the Shek Wu Hui STW (North)	24-hour TSP

(1) Due to close proximity to construction works and heavy machines from another construction project, the air and noise monitoring at AM2 /NM2 (Fu Tei Au) were proposed to be conducted at AM2*/NM2* (Footbridge between Fu Tei Au and SWHSTW) from November 2022 to February 2023. The air and noise monitoring were resumed to be conducted at AM2/ NM2 in March 2023 since the completion of the nearby construction works

(2) Due to close proximity to construction works and heavy machines, presence of physical barrier and safety concerns, find adjustment for the location of AM1a was proposed in accordance to Section 2.2.4.6 of the EM&A Manual. It was adjusted from the ground level near the control room of SWHSTW to the roof floor of that control room. The proposal has sought approval from ER and IEC, and agreement from EPD in May 2022.

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

4.2.2. 24-hour TSP shall be sampled at least once in every 6 days, while sampling for 1-hour TSP shall be at least 3 times in every 6 days when the highest dust impact takes place.

4.2.3. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

4.2.4. 24-hour TSP Measuring Installation (HVS)

(a) 0.6 – 1.7 m^3 per minute adjustable flow range

(b) Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;

(c) Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;

(d) Capable of providing a minimum exposed area of 406 cm2;

(e) Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;

(f) Equipped with a shelter to protect the filter and sampler;

(g) Incorporated with an electronic mass flow rate controller or other equivalent devices;

(h) Equipped with a flow recorder for continuous monitoring;

(i) Provided with a peaked roof inlet;

(j) Incorporated with a manometer;

(k) Able to hold and seal the filter paper to the sampler housing at horizontal position;

(l) Easily changeable filter; and

(m) Capable of operating continuously for a 24-hour period

Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. All the data should be converted into standard temperature and pressure condition.

24-hour Measuring Procedures

(a) Check the power supply to ensure the sampler works properly.

(b) Remove the filter hold down by loosening the four nuts and carefully centre a new filter, with stamped number upward, on a supporting screen.

(c) Properly align the filter on the screen so that the gasket will form an airtight seal on the outer edges of the filter.

(d) Fasten the filter hold down frame to the filter holder with swing bolts. The pressure applied should be sufficient to avoid air leakage at the edges.

(e) Close shelter lid and secure catch with the aluminum strip.

(f) Record the flow indicator reading and determine the sampler flow rate. If it is outside the acceptable range, adjust the sampler flow rate.

(g) Set the programmable timer and record the starting sampling time, weather condition and the filter identification number.

(h) At the end of sampling, the filter was transferred from the filter holder of the HVS to a filter bag and sent to the accredited laboratory for weighing. The elapsed time was also recorded.

4.2.5. 1-hour Measuring Procedures

Portable dust meter will be proposed and sufficient information will be submitted to IC (E) to prove that the instrument is capable of achieving a comparable result as that of the HVS and used for 1-hour sampling

(a) Slide the power switch to turn the power on

(b) Select the period of measurement to 60mins

(c) Check and set the correct time

(d) Select the appropriate unit display for the equipment

(e) Collected the sampled data for analysis

The portable dust meter is calibrated at 2-years interval and checked with HVS yearly to determine the accuracy and validity of the results measured. The checking of portable dust meter will be carried out in order to determine the conversion factor between the portable

dust meter and the standard equipment, HVS.

The calibration check is to be considered valid if the calculated correlation coefficient is >0.90.

4.2.6. Maintenance and Calibration

(a) The direct reading dust meter was calibrated at 2-years interval and checked with High Volume Sampler (HVS) yearly to determine the accuracy and validity of the results measured.

(b) Checking of direct reading dust meter will be carried out in order to determine the conversion factor between the direct reading dust meter and the standard equipment, HVS. The comparison check is to be considered valid based on correlation coefficient checked by HOKLAS laboratory

4.2.7. Laboratory measurement / analysis

(a) A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.

(b) Filter paper of size 8” x 10” shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24 hours and be pre-weighed before use for the sampling.

(c) After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity-controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.

4.2.8. High Volume Sampler (HVS – Model TE-5025A) completed with the appropriate sampling inlets were installed for the 24-hour TSP sampling. 1-hour TSP air quality monitoring was performed by using portable direct reading dust meters at each designated monitoring station. The brand and model of the equipment are given in ***Table 4.6***.

Table 4.6 Air Quality Monitoring Equipment

Equipment	Brand and model	Series Number	Expiry Date
Portable direct reading dust meter	Met One BT- 645 / Met One AEROCET831	C15622 Y23153	3-Feb-2024
Calibration Kit	Tisch Environmental (Calibration Model: TE-5025A)	3880	28-Jun-2023

High Volume Sampler	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model no. G3101)	0401-1105 & 2036 1096-2305 & 774	6-Mar-2023 & 7-May-2023
Wind Anemometer	YGY-FSXY1	YG 21071630T0924	29-Sep-2023

4.2.9. The calibration certificates of the air quality monitoring equipment are attached in ***Appendix 4.2***.

WIND DATA

4.2.10. Hong Wind data monitoring equipment was set up at roof floor (about 4/F) of the SWHSTW control room 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 sections of 22.5 degrees each. The wind data obtained from the on-site wind station during the reporting period is provided in ***Appendix 4.3.***

EVENT AND ACTION PLAN

4.2.11. The Action and Limit Levels for construction air quality are defined in ***Table 4.7*** and ***Appendix 4.1***. Should non-compliance of the air quality criteria occur, action in accordance with the Event and Action Plan in Appendix 6.1 shall be carried out.

Table 4.7 Action and Limit Level for Air Quality Monitoring

Parameter	**Monitoring Station**	**Action Level** (µgm-3)	**Limit Level** (µgm-3)
24-hour TSP Level	Site boundary of the Shek Wu Hui STW (East), Root Floor	189	260.0
	Site boundary of the Shek Wu Hui STW (North)	187	
1-hour TSP Level	House No. 15, Wai Loi Tsuen	320	500.0
	Fu Tei Au	322	

4.3 Ecological Monitoring

4.3.1. According to the Updated EM&A Manual, weekly transect at both high and low tides shall be undertaken 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. ***Appendix 4.1*** shows the established Action/Limit Levels for ecological monitoring works.

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

MONITORING LOCATIONS

4.3.3. 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 4.3*** and summarized in ***Table 4.8*** The photo of each transect is provided in ***Appendix 5.6***.

Table 4.8 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

4.3.4. 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 5.1.***

MONITORING METHODOLOGY

4.3.5. 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.

4.3.6. 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.

4.3.7. 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).

4.3.8. 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

4.3.9. The number and species of waterbirds utilizing the rivers fluctuate every day naturally. Therefore, the survey data were collectively analyzed 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 4.9***.

Table 4.9 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	普通鸬鹚
Ardea alba	Great Egret	大白鷺
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺

4.3.10. 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.

4.3.11. 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

4.4 Water Quality Monitoring

WATER QUALITY MONITORING STATIONS

4.4.1. Water quality monitoring was undertaken at 2 monitoring stations in the reporting month. The proposed water quality monitoring stations of the Project are shown in ***Table 4.10*** and ***Figure 4.4***.

Table 4.10 Water Quality Stations for Water Quality Monitoring

Stations	Description
M1	Impact Station, downstream of the proposed outfall
C1	Control Station, upstream of the proposed outfall

WATER QUALITY PARAMETERS, FREQUENCY AND DURATION

4.4.2. The levels of dissolved oxygen (DO), salinity, temperature, turbidity and pH shall be measured in situ while suspended solids (SS) is determined by laboratory analysis at all the designated monitoring stations.

4.4.3. In association with the water quality parameters, other relevant data shall also be recorded, such as monitoring location / position, time, DO saturation, weather conditions, and any special phenomena underway near the monitoring station.

4.4.4. During the course of the construction works at the outfall at Ng Tung River, impact monitoring shall be undertaken three days per week, with sampling/measurement at the monitoring stations. The ET should carry out spot check to ensure that the Contractor has undertaken all recommended control measures to prevent direct contact of pollutants with rainwater or runoff, and measures to abate contaminants in the stormwater runoff.

4.4.5. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased.

4.4.6. Replicate in-situ measurements should be carried out in each sampling event.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

Dissolved Oxygen and Temperature Measuring Equipment

4.4.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:

- a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
- a temperature of 0-45 degree Celsius

4.4.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

4.4.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

Turbidity Measurement Instrument

4.4.10. The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

Sampler

4.4.11. Due to low water level as mentioned in Section 6.4.3 of the EIA report, bucket sampler (Approximate 1L) will be use instead of water sampler in order to obtain surface water sample without disturb the stream sediment and collect representative results.

Salinity

4.4.12. A portable salinometer capable of measuring salinity in the range of 0-70 ppt shall be provided for measuring salinity of the water at each of monitoring location.

MONITORING METHODOLOGY

4.4.13. Monitoring Procedure

(a) The condition near the monitoring stations shall be observed and recorded on the data log sheet.
(b) Check of sensors and electrodes with certified standard solutions before each use.
(c) Wet bulb calibration for a DO meter should be carried out before measurement.
(d) Sample would be taken using bucket sampler at surface level.
(e) Transfer the sampled water carefully into cleaned water bottles (2x 1000ml) provided by the laboratory at the spot after the collection of the water sample for the subsequent laboratory Suspended Solid testing.
(f) Transfer the sampled water from the bucket sampler to the rinsed water container for in-situ measurement (In case of the in-situ measurement cannot be carried at spot due to safety and adverse weather condition, sampled water from the bucket sampler will be transfer to cleaned water bottles provided by laboratory. Then, In-situ measurement will be conducted at a safe location which sampled water inside cleaned water bottle will be transfer to the rinsed water container for in-situ measurement) In-situ measurement shall be measured in duplicate.

(g) Parameters including Water Temperature (°C), pH (units), Salinity (ppt), DO (mg/L), DO saturation (%) will be measured by the Multifunctional Meter and Turbidity (NTU) will be measured by turbid meter. (Water Temperature and Salinity will be measured as reference parameters)

(h) Record the result on the data log sheet and record any special finding during / after in-situ measurement.

(i) The water sample bottles will be stored in a cool box (at cooled to 4℃ without being frozen), which shall be delivered to HOKLAS laboratory (ALS Technichem (HK) Pty Ltd) for further testing to determine the level of SS.

4.4.14. Maintenance and Calibration

(a) The responses of sensors and electrodes of the water quality monitoring equipment were cleaned and checked at regular intervals.

(b) DO meter (Multifunctional Meter) and turbid meter was certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at three monthly intervals.

4.4.15. Brand and model of the equipment are given in **Table 4.11**.

Table 4.11 Water Quality Monitoring Equipment

Equipment	Brand and model	Series Number	Expiry Date
Multifunctional Meter	YSI Professional Plus	19H100656/ 14E101065	8-May-2023
Turbid meter	Xin Rui WGZ-3B	2202020/ 1807073	23-Mar-2023/ 10-Jun-2023

4.4.16. The calibration certificates of the water quality monitoring equipment are attached in **Appendix 4.2**.

LABORATORY MEASUREMENT / ANALYSIS

4.4.17. Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, which is ALS Technichem (HK) Pty Ltd.

EVENT AND ACTION PLAN

4.4.18. The Action and Limit levels for water quality are defined in **Table 4.12**. Should the monitoring results of the water quality parameters at impact station exceed the water quality criteria, action in accordance with the Event and Action Plan in **Appendix 6.1** shall be carried out.

Table 4.12 Action and Limit Level for Water Quality Monitoring

Parameter (Unit)	Depth	Action Level	Limit Level
DO (mg/L)	Depth-average	**≤ 7.8 mg/L**	**≤ 7.7 mg/L**
Turbidity (NTU)	Depth-average	**≥ 14.6 NTU** or 120% of upstream control station's Turbidity at the same tide of the same day	**≥ 15.6 NTU** or 130% of upstream control station's Turbidity at the same tide of the same day
SS (mg/L)	Depth-average	**≥ 18.8 mg/L** or 120% of upstream control station's SS at the same tide of the same day	**≥ 19.5 mg/L** or 130% of upstream control station's SS at the same tide of the same day

5 Monitoring Results

5.0.1 The environmental monitoring will be implemented based on the division of works areas of each designed projects. Overall layout showing work areas and monitoring stations is shown in ***Figure 2.1*** and ***Figure 4.1 – 4.4*** respectively**.**

5.0.2 The environmental monitoring schedules for reporting month and coming month are presented in ***Appendix 5.1*****.**

5.1 Noise Monitoring Results

5.1.1 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation are shown in **Table 5.1** and ***Appendix 5.2***.

Table 5.1 Summary Table of Noise Monitoring Results

Monitoring Location	Range, Leq (30min) dB(A)	Limit Level
NM1	56.8 – 62.0	75 dB
NM2	54.7 – 71.5	
NM3	59.1 – 62.1	

Remark: +3dB(A) façade correction included

5.1.2 No action or limit level exceedance was recorded in this reporting month.

5.1.3 According to our field observations, the major noise source identified were nearby road traffic and human activities.

5.1.4 The noise monitoring result measured in reporting month was similar to previous months. The noise monitoring result was slightly variated in the reporting month, and no increasing trend was identified due to the construction works conducted in the reporting month. No correlation between the project's construction work and the monitoring data was identified.

5.2 Air Quality Monitoring Results

5.2.1 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in **Table 5.2**, **Table 5.3** and ***Appendix 5.3***.

Table 5.2 Summary Table of 1-hour TSP Monitoring Results

Monitoring Station	Concentration (µg/m3)		Action Level, (µg/m3)	Limit Level, (µg/m3)
	Average	Range		
AM1	33	12 – 54	320	500
AM2	37	22 – 60	322	500

Table 5.3 Summary Table of 24-hour TSP Monitoring Results

Monitoring Station	Concentration (µg/m3)		Action Level, (µg/m3)	Limit Level, (µg/m3)
	Average	Range		
AM1a*	66	17 - 117	189	500
AM2a	56	14 - 97	187	500

5.2.2 Power failure was encountered at AM2a on 31 March 2023, so the 24hr AQM for AM2a was temporarily suspended.

5.2.3 No action or limit level exceedance was recorded in this reporting period.

5.2.4 According to our field observations, the major dust source identified were nearby road traffic.

5.2.5 The air quality monitoring result measured in reporting month was similar to previous months. The air quality monitoring result was slightly variated in the reporting month, and no increasing trend was identified due to the construction works conducted in the reporting month. No correlation between the project's construction work and the monitoring data was identified.

5.3 Ecology Monitoring Results

5.3.1 For this reporting month, the numbers of species and individuals recorded were provided in **Table 5.4** and the abundance of representative species were shown in **Table 5.5**.

Table 5.4 Total Bird Species and Abundance in the Reporting Month

	Number of Species	Abundance
All Avifauna	44	1303
Waterbirds	17	328

Table 5.5 Abundance of Representative Waterbirds in the Reporting Month

Species Name	Common Name	Chinese Name	Abundance
Egretta garzetta	Little Egret	小白鷺	132
Ardea cinerea	Grey Heron	蒼鷺	30
Ardeola bacchus	Chinese Pond Heron	池鷺	33
Phalacrocorax carbo	Great Cormorant	普通鸬鹚	19
Ardea alba	Great Egret	大白鷺	23
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	18
		Total	**255**

Ecological Analysis

5.3.2 The result of student t-tests for all waterbirds and representative waterbirds are compiled in **Table 5.6** and **Table 5.7** respectively. Further details are provided in **Appendix 5.4**.

Table 5.6 T-test Result for All Waterbirds in the Reporting Month

T-values of Data in Reporting Month			Confidence Level (Critical Value)	
			95% (-2.132)	99% (-3.747)
Abundance	**Monthly**	**1.710**	✓	✓
	Seasonal	**0.533**	✓	✓

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 5.7 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% (-2.132)	99% (-3.747)	Seasonal	95% (-2.132)	99% (-3.747)	
Little Egret	1.506	✔	✔	2.319	✔	✔	✔
Grey Heron	2.631	✔	✔	-6.139	X	X	✔
Chinese Pond Heron	-1.419	✔	✔	-1.419	✔	✔	✔
Great Cormorant	0.459	✔	✔	-1.835	✔	✔	✔
Great Egret	0.612	✔	✔	-0.408	✔	✔	✔
Eastern Cattle Egret	-2.785	X	✔	-0.206	✔	✔	✔

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 wet season.
**According to section 7.2 of the approved ecological baseline report, action/Limit level shall be triggered if reduction in bird abundance is found in both the respective month and season.

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

5.3.4 Site observation in the reporting month shows that construction activities are similar to previous months. The photos are provided in **Appendix 5.5**.

5.3.5 In recent months, it is found that there are different construction sites for example construction of footbridge, excavation and sheet-piling, and human activities including burning rubbish, jag walking, grazing, and fishing and landscape planting around the project site. The photos are provided in **Appendix 5.5**. These construction and human activities may affect activities of the waterbird. Although, there is no significant impact reduction in number of waterbirds, but it is recommended that construction site should continue keeping the good site practice to minimize disturbance caused to waterbirds.

5.3.6 Nesting and breeding behaviours were observed during the monitoring in reporting month. There was at least two nests observed along transects. Although the location of the nest is quite near to the project site but there was no significant impact observed on the nest in the month reported.

Observations

5.3.7 Waterbird behaviour observed during ecological monitoring are listed below:

- Flying
- Foraging
- Soraing
- Resting
- Breeding

5.3.8 The anthropogenic activities observed during ecological monitoring are listed in **Table 5.8**.

Table 5.8 Observations during Ecological Monitoring in the Reporting Month

Location(s)	Observations	
	Project Related	**Non-project Related**
T1 (PC1, PC2)	N/A	Human Activities such as Cycling, and Fishing Construction activities such as footbridge construction, excavation, and breaking works
T2 (PC3, PC4)	Construction activities such as generator & welding works, Scaffolding, sedimentation tank, Excavation and crane	Human Activities such as Fishing, Cycling, and Landscape Planting Construction activities such as Sheet-piling, generator & welding works, Scaffolding, sedimentation tank, Excavation, crane and breaking works
PC5	Construction activities such as Excavation and crane	N/A
T3 (PC6, PC7)	Construction activities such as Sheet-piling	Human Activities such as Cycling, Singing, Fishing and Landscape Planting Construction activities such as Excavation, Sheet-piling, generator & wielding works, Scaffolding, lifting works

5.4 Water Quality Monitoring Results

5.4.1 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water monitoring results and graphical presentation can be referred in **Table 5.9** and ***Appendix 5.7***. The laboratory analysis results can be referred in ***Appendix 5.8***.

Table 5.9 Summary Table of Water Quality Monitoring Results

Parameter	M1		C1		Action Level, (µg/m3)	Limit Level, (µg/m3)
	Range	Average	Range	Average		
DO (mg/L)	5.7 – 9.1	7.0	6.0 – 9.3	7.6	≤ 7.8 mg/L	≤ 7.7 mg/L
Turbidity (NTU)	6.7 – 22.3	10.7	5.9 – 16.1	11.5	≥ 14.6 NTU or When M1 ≥ 120% of C1	≥ 15.6 NTU or When M1 ≥ 130% of C1
SS (mg/L)	3.7 – 27.6	12.2	4.4 – 20.4	13.3	≥ 18.8 mg/L or When M1 ≥ 120% of C1	≥ 19.5 mg/L or When M1 ≥ 130% of C1

5.4.2 Sixteen (16) limit level exceedances and three (3) action level exceedances were recorded in the reporting month. **Table 5.10** shown all exceedances recorded in the reporting month.

Table 5.10 Summary Table of Exceedance

Date	Action Level (AL) / Limit Level (LL) Exceedance			Construction Works at Outfall (extracted from Site Diary of ER)
	DO	Turbidity	SS	
1 Mar 2023	-	AL	-	1.General site work
3 Mar 2023	LL	LL	-	
6 Mar 2023	LL	-	-	1.Excavation work for step-channel
8 Mar 2023	LL	-	-	1.Installation of step-channel moulds 2.Erect formwork for step-channel
13 Mar 2023	-	-	AL	No activity
15 Mar 2023	-	-	LL	
17 Mar 2023	LL	LL	AL	
20 Mar 2023	LL	-	-	
22 Mar 2023	LL	-	LL	
24 Mar 2023	LL	LL	LL	
27 Mar 2023	LL	-	-	
29 Mar 2023	LL	-	-	
31 Mar 2023	LL	-	-	

5.4.3 After the exceedances were recorded, the ET had taken the action required in the Event and Action Plan, the taken actions are mentioned in **Appendix 6.2**. The investigation result was provided in the following sections.

5.4.4 According to the Project Layout, most of the construction works under the Project are considered land-based construction. There are only construction works for Outfall conducted at the slope between the Project site and the Ng Tung River, which may contribute to water quality pollution in the Ng Tung River. The Project Layout and the location of the constructed outfall are shown in **Figure 2.1.**

5.4.5 ET conducted a site investigation after recorded exceedances. Except for the construction of the outfall, there was no construction work or exposed area under the Project identified at the site boundary and Ng Tung River. The photo record of the site boundary taken after the exceedance was annexed in **Appendix 5.10a**.

5.4.6 Considered only construction works for Outfall may affect the water quality of Ng Tung River, so the investigation should be focused on on-site practice and implementation of mitigation measures for outfall work instead of the entire Project area.

5.4.7 According to the site diary from ER and ET's photo record, the main construction works (excavation and sheet piling) for the outfall were completed in December 2022. Excepted on 6 March 2023, no excavation or sheet piling work was conducted in March 2023. The site diary was also showing that E&M work were main conducted in March 2023, and there was no construction work conducted at Outfall since 12 March 2023. The site diary from ER and the photo record taken by the ET for the outfall were annexed in **Appendix 5.10b** and **Appendix 5.10c** respectively.

5.4.8 According to the photo record taken during the water quality monitoring process on 6 March 2023, the excavation work for the step-channel was not conducted during the water quality monitoring process, which means the exceedance recorded on 6 March 2023 was not caused by the construction work under the project.

5.4.9 A trend plot of the ambient temperature in comparison with the DO levels was conducted by the ET. The trend plot showed that higher ambient temperatures were recorded during the water quality monitoring process, and lower DO levels would be measured. According to the result of the trend plot, the low DO levels measured during WQM shall be caused by the high ambient temperature. The trend plot of ambient temperature in comparison with the DO levels was annexed in **Appendix 5.7**.

5.4.10 After reviewing the DO levels measured since the commencement of WQM, the average DO levels recorded from November 2022 to March 2023 was 7.1 mg/ L, which exceeded the Limit Level. However, according to the Annual River Water Quality Reports [#1], which were published by the EPD, the average DO level at Ng Tung River (IN1, the monitoring point location around 600m away) was around 6.0 mg/L. That means the DO level at Ng Tung River near the Project site was close to the nearby river.

5.4.11 After reviewing the site diary for Outfall and the photo recorded taken during the water quality monitoring process, there was no evidence showing the exceedance recorded in March 2023 related to the Project's work, so the exceedances recorded in the reporting month should be considered as non-project related.

5.4.12 According to information from the ER and Contractor, the Outfall works will be completed at end of April 2023 tentatively, so the water quality monitoring is proposed to suspend since May 2023.

[#1]Ref: River Water Quality in Hong Kong in 2021 (page 57)

https://www.epd.gov.hk/epd/sites/default/files/epd/english/environmentinhk/water/hkwqrc/files/waterquality/annual-report/riverreport2021.pdf

5.5 Waste Management

5.5.1 The quantities of waste for disposal in the Reporting Period are summarized in ***Table 5.11*** to ***5.14***. The Monthly Summary Waste Flow Table is shown in ***Appendix 5.9***. Whenever possible, materials were reused on-site as far as practicable.

Table 5.11 Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract No. DC/2018/06

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2023)
Hard Rock and Large Broken Concrete (Inert) (in '000m^3)	0.000	0.000	0.000
Reused in this Contract (Inert) (in '000m^3)	0.000	0.000	0.000
Reused in other Projects (Inert) (in '000m^3)	0.000	0.000	0.000
Disposal as Public Fill (Inert) (in '000m^3)	1.381	2.381	4.204
Metals (in '000kg)	0.000	0.000	0.000
Paper / Cardboard Packing (in '000kg)	0.000	0.000	0.000
Plastics (in '000kg)	0.000	0.000	0.000
Chemical Wastes (in '000kg)	0.000	0.000	0.000
General Refuses (in '000m^3)	0.078	0.088	0.228

Table 5.12 Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract No. DC/2018/07

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2023)
Hard Rock and Large Broken Concrete (Inert) (in '000m^3)	0.000	0.000	0.000

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2023)
Reused in this Contract (Inert) (in '000m^3)	0.000	0.000	0.000
Reused in other Projects (Inert) (in '000m^3	0.000	0.000	0.000
Disposal as Public Fill (Inert) (in '000m^3)	3.950	0.341	13.251
Metals (in '000kg)	0.000	0.000	0.000
Paper / Cardboard Packing (in '000kg)	0.000	0.000	0.000
Plastics (in '000kg)	0.000	0.000	0.000
Chemical Wastes (in '000kg)	0.000	0.000	0.000
General Refuses (in '000m^3)	0.070	0.074	0.168

Table 5.13 Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract No. DE/2018/03

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2023)
Hard Rock and Large Broken Concrete (Inert) (in '000kg)	0.000	0.000	0.000
Reused in this Contract (Inert) (in '000kg)	0.000	0.000	0.000
Reused in other Projects (Inert) (in '000kg)	0.000	0.000	0.000
Disposal as Public Fill (Inert) (in '000kg)	0.000	0.000	0.000
Metals (in '000kg)	0.000	0.000	0.000

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2023)
Paper / Cardboard Packing (in '000kg)	0.000	0.000	0.130
Plastics (in '000kg)	0.000	0.000	0.000
Chemical Wastes (in '000kg)	0.000	0.000	0.000
General Refuses (in '000kg)	17.330	18.310	46.150

Table 5.14 Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract No. DE/2018/04

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2023)
Hard Rock and Large Broken Concrete (Inert) (in '000kg)	0.000	0.000	0.000
Reused in this Contract (Inert) (in '000kg)	0.000	0.000	0.000
Reused in other Projects (Inert) (in '000m^3)	0.000	0.000	0.000
Disposal as Public Fill (Inert) (in '000m^3)	0.000	0.000	7.260
Metals (in '000kg)	0.000	0.000	0.000
Paper / Cardboard Packing (in '000kg)	0.000	0.000	0.000
Plastics (in '000kg)	0.000	0.000	0.000
Chemical Wastes (in '000kg)	0.000	0.000	0.000
General Refuses (in '000kg)	1.970	0.000	1.970

6 Compliance Audit

6.0.1 The Event Action Plan for construction noise, air quality and ecological monitoring are presented in ***Appendix 6.1.***

6.0.2 The summary of exceedance is presented in ***Appendix 6.2.***

6.1 Noise Monitoring

6.1.1 No action or limit level exceedance was recorded in this reporting period.

6.2 Air Quality Monitoring

6.2.1 No action or limit level exceedance was recorded in this reporting period.

6.2.2 Power failure was encountered at AM2a on 31 March 2023, so the 24hr AQM for AM2a was temporarily suspended.

6.3 Ecological Monitoring

6.3.1 No action Level or Limit level was triggered for ecological monitoring in the reporting month.

6.4 Water Quality Monitoring

6.4.1 Sixteen (16) limit level exceedances and three (3) action level exceedances were recorded in the reporting month.

6.4.2 Investigation for the exceedances recorded in the reporting month was conducted, after investigation all recorded exceedances were considered non-project related.

6.4.3 The detail of investigation result can be referred to Section 5.4. The follow-up action for recorded exceedances can be referred to ***Appendix 6.2.***

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

6.5.1 No environmental non-compliance was recorded in the reporting month

6.6 Summary of action taken in the event of and follow-up on non-compliance

6.6.1 There was no particular action taken since no non-compliance was recorded in the reporting period.

7 Environmental Site Audit

7.1.1. Within this reporting month, weekly environmental site audits were conducted on 7(DE/2018/03 and DE/2018/04), 9(DC/2018/06 and DC/2018/07), 14, 21 and 28 March 2023 and biweekly landscape inspection on 14 and 28 March 2023. IEC attended the joint site inspection on 14 March 2023.

7.1.2. No non-compliance was found during the environmental site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting month are listed below in ***Table 7.1 to 7.4***.

Table 7.1 Summary of Environmental Inspections of Contract No. DC/2018/06

Item	Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
20230314_1	14-Mar-2023	Muddy tire tracks were observed at the site entrance. Contractor should clean up the muddy tire tracks and provide wheel washing to vehicles when leaving the site.	Wheel washing was provided to vehicle exit near SDB. No further muddy tire tracks was observed at vehicle exit.	Rectified on 21-Mar-23.
20230328_1	28-Mar-2023	Drip tray should be provided for the storage of oil drums.	Drip tray was provided to the oil drum stored onsite.	Rectified on 4-Apr-23.
20230328_2	28-Mar-2023	Noise Emission Label should be displayed on the air compressor.	NRMM was provided to the air compressor.	Rectified on 4-Apr-23.

Table 7.2 Summary of Environmental Inspections of Contract No. DC/2018/07

Item	Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
-	-	-	-	-

Table 7.3 Summary of Environmental Inspections of Contract No. DE/2018/03

Item	Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
20230321_3	21-Mar-2023	Chemical containers stored without drip tray was observed at Sidestream. The Contractor was advised to provide drip tray to the chemical stored onsite.	Chemical containers at Sidestream were removed.	Rectified on 28 Mar-2023.

Table 7.4 Summary of Environmental Inspections of Contract No. DE/2018/04

Item	Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
-	-	-	-	-

8 Complaints, Notification of Summons and Prosecution

8.1.1. No environmental complaint, notification of summons and successful prosecution regarding construction works was recorded in the reporting period.

8.1.2. The details environmental complaints for the Project are summarized by complaint log in ***Appendix 8.1.***

8.1.3. Cumulative statistics on complaints and successful prosecutions are summarized in ***Table 8.1*** and ***Table 8.2*** respectively.

Table 8.1 Cumulative Statistics on Complaints in the Reporting Month

Reporting Period	No. of Complaints
Commencement works (Feb 2018) to last reporting month	4
March 2023	0
Total	**4**

Table 8.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative no. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	**-**	**0**	**0**

9 Conclusion

9.1.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.

9.1.2. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

9.1.3. The scheduled construction activities and the recommended mitigation measures for the coming 3 months are listed in ***Table 9.1***. The construction programmes of individual activities are provided in ***Appendix 9.1.***

Table 9.1 Construction Activities and Recommended Mitigation Measures in Coming Reporting Month

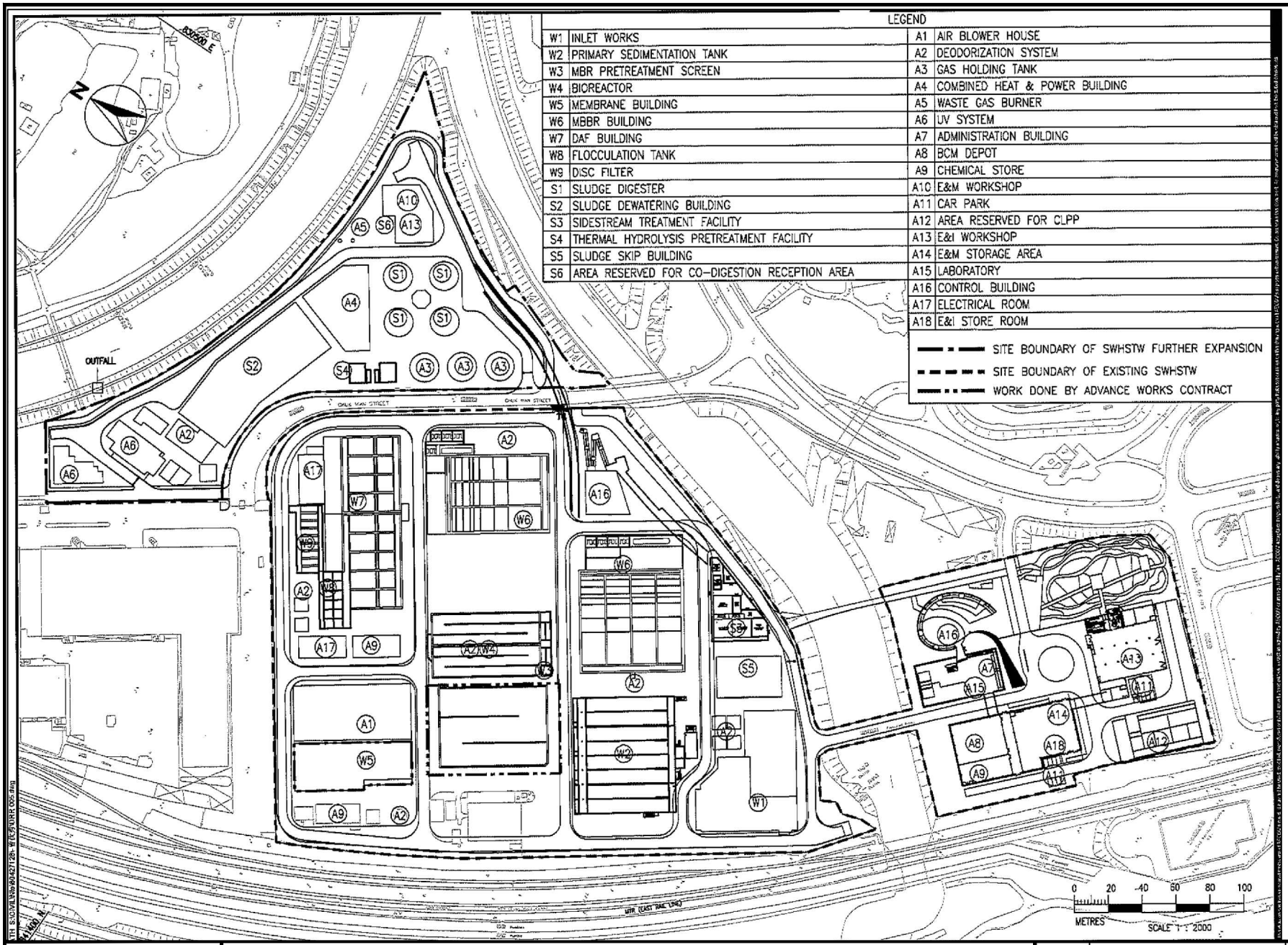
Contract No.	Key Construction Works	Recommended Mitigation Measures
DC/2018/06	• RC works • Backfilling • ESL sheet pipe removal • Sewage, utility and pipe works • ABWF works • Construction of Outfall at Ng Tung River	• Implement proper dust mitigation measures on dusty surface, stockpiles and related dusty works • Implement proper measures to prevent excavated material, silt or debris being deposited or washed into existing drainage systems and waterbodies • Implement proper noise mitigation measures to prevent potential noise nuisances to nearby sensitive receivers • Proper maintenance of the on-site drainage system • Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system • Good site practices should be adopted to check for any accumulation of waste materials on site and dispose waste materials at designated areas. • Segregate and store different types of waste to enhance reuse or recycling of materials and their proper disposal • Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel for diesel-powered machinery. • Implement proper water mitigation measures on Outfall works for preventing water pollution.

Contract No.	Key Construction Works	Recommended Mitigation Measures
DC/2018/07	• ELS works • Sheet piling • RC works • Excavation • Pile laying	• Implement proper dust mitigation measures on dusty surface and stockpiles • Implement proper measures to prevent excavated material, silt or debris being deposited or washed into existing drainage systems and waterbodies • Implement proper noise mitigation measures to prevent potential noise nuisances to nearby sensitive receivers, especially screening noise during piling related activities • Proper maintenance of the on-site drainage system • Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system • Good site practices should be adopted to check for any accumulation of waste materials on site and dispose waste materials at designated areas. • Segregate and store different types of waste to enhance reuse or recycling of materials and their proper disposal. • Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel for diesel-powered machinery.
DE/2018/03	• Superstructure works • Electrical Installation • Pipework Installation • MFA and AFA Installation • SPR Installation • Plumbing installation • MVAC Installation • EOT and Monorail Installation • Bio-Gas Holding tank Installation • Penstock and Stoplog Installation • Delivery and	• Implement proper noise mitigation measures to prevent potential noise nuisances to nearby sensitive receivers • Implement proper waste mitigation measures to prevent accidental leakage of chemical • Good site practices should be adopted to check for any accumulation of waste materials on site and dispose waste materials at designated areas. • Proper maintenance of the on-site drainage system • Segregate and store different types of waste to enhance reuse or recycling of materials and their proper disposal. • Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel for diesel-powered machinery.

Contract No.	Key Construction Works	Recommended Mitigation Measures
	Installation of THP System	
DE/2018/04	• Improvement works for Temporary Primary Sludge Thickener and its accessories. • E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System. • E&M works at Portion B-3, Primary Sedimentation Tanks No. 1-4. • E&M & civil works for Leachate Pre-treatment Plant at existing compressor house and BR No 3&4.	• Good site practices should be adopted to check for any accumulation of waste materials on site and dispose waste materials at designated areas. • Segregate and store different types of waste to enhance reuse or recycling of materials and their proper disposal.

Figure 2.1

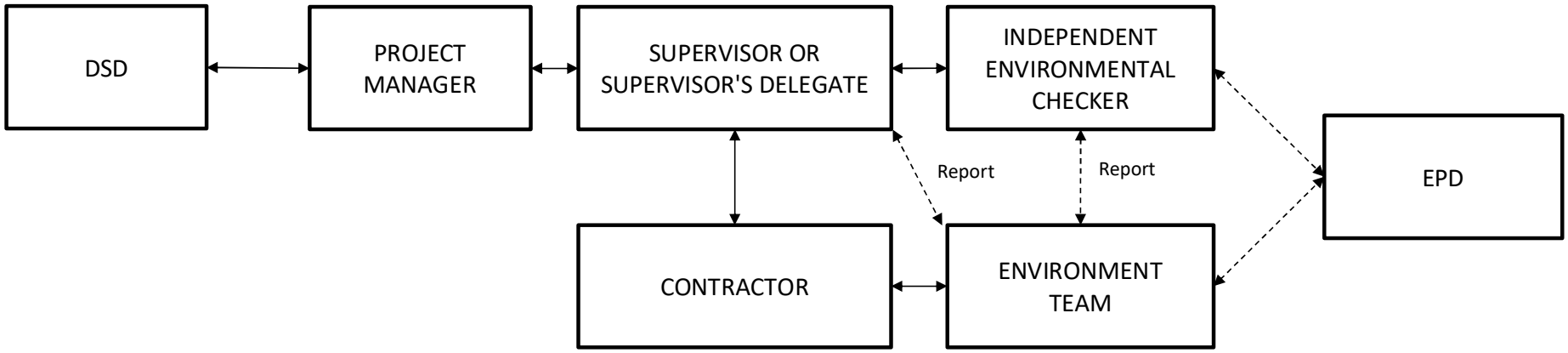
Project Layout



Shek Wu Hui E□luent Polishing Plant	SCALE	As Shown	DATE SEP 2019
	CHECK	JM	DRAWN SY
General Site Layout O□SWHEPP	JOB No.		FIGURE NO. 1.1 RE□ -

Figure 2.2

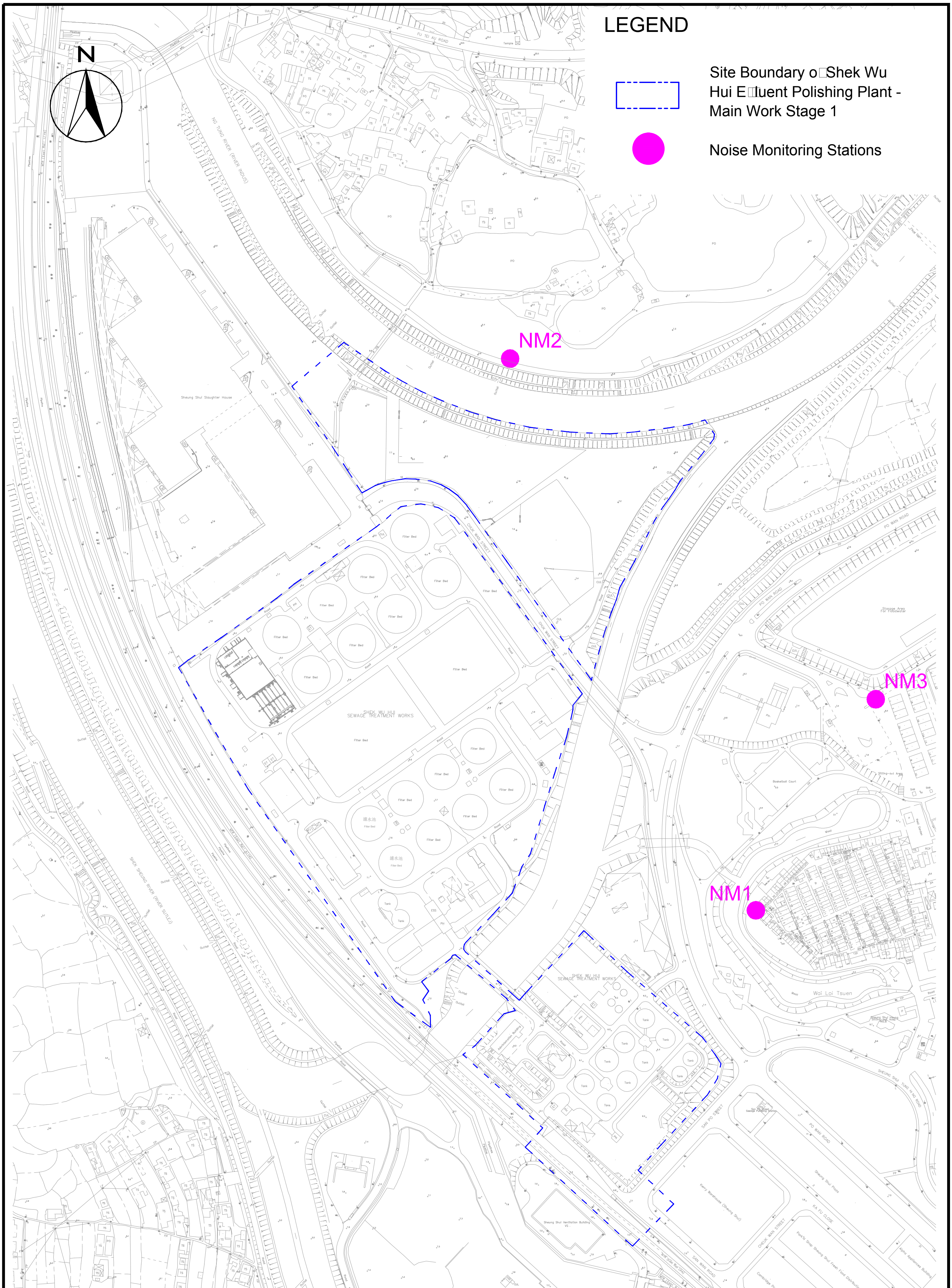
Project Organization Chart



	Shek Wu Hui Effluent Polishing Plant -	**SCALE**	N.T.S.	**DATE**	Sep 2019
		CHECK	JW	**DRAWN**	SY
	Project Organisation For Environmental Monitoring and Audit	**JOB NO.**		**FIGURE NO.**	1.2

Figure 4.1

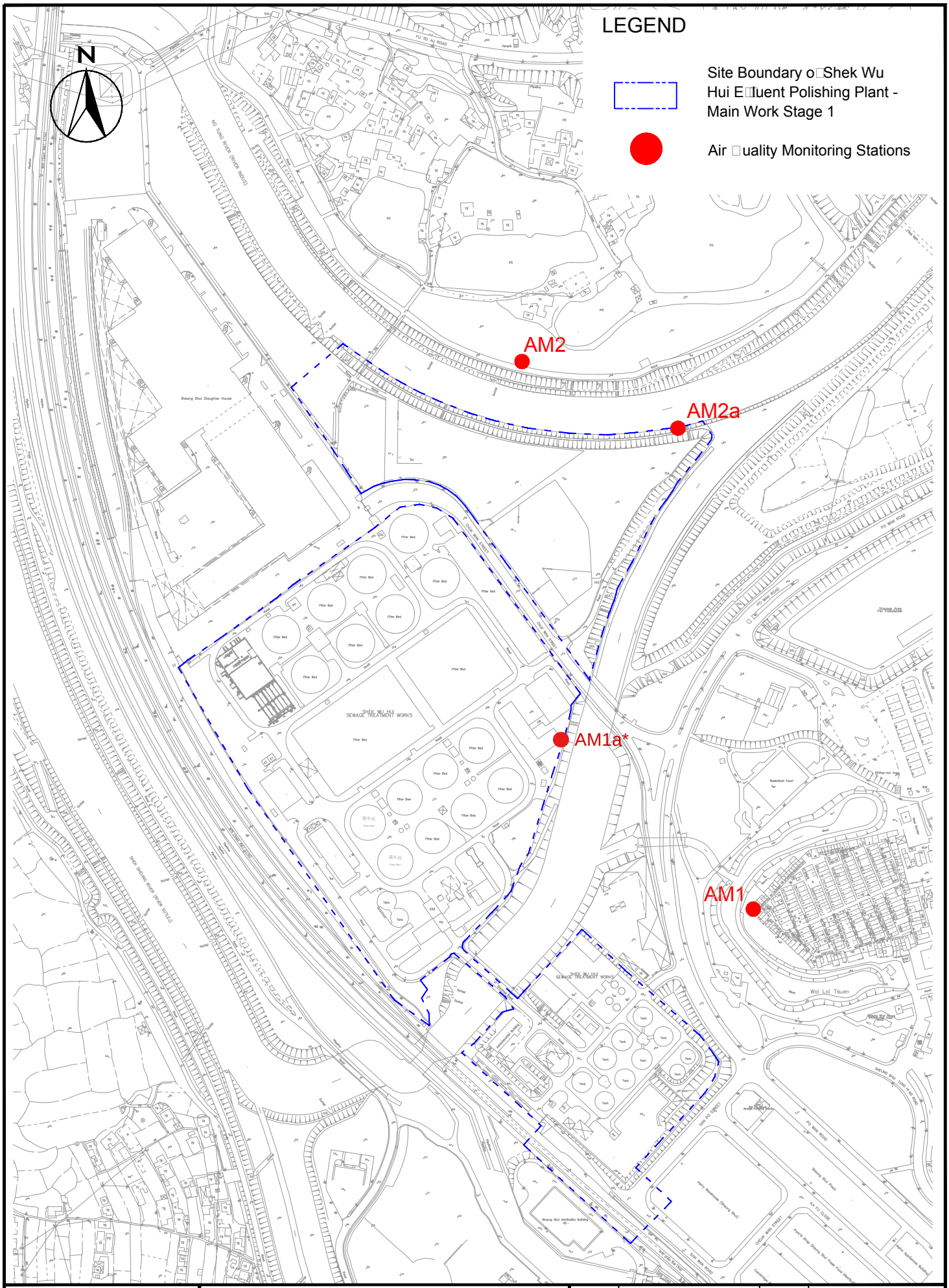
Locations of Noise Monitoring Stations



Shek Wu Hui Effluent Polishing Plant	SCALE	1:4000 A4	DATE	SEP 2019
	CHECK	JM	DRAWN	SY
Location of Noise Monitoring Stations	JOB No.	MA19019	FIGURE NO. 3	REV -

Figure 4.2

Locations of Air Quality Monitoring Stations

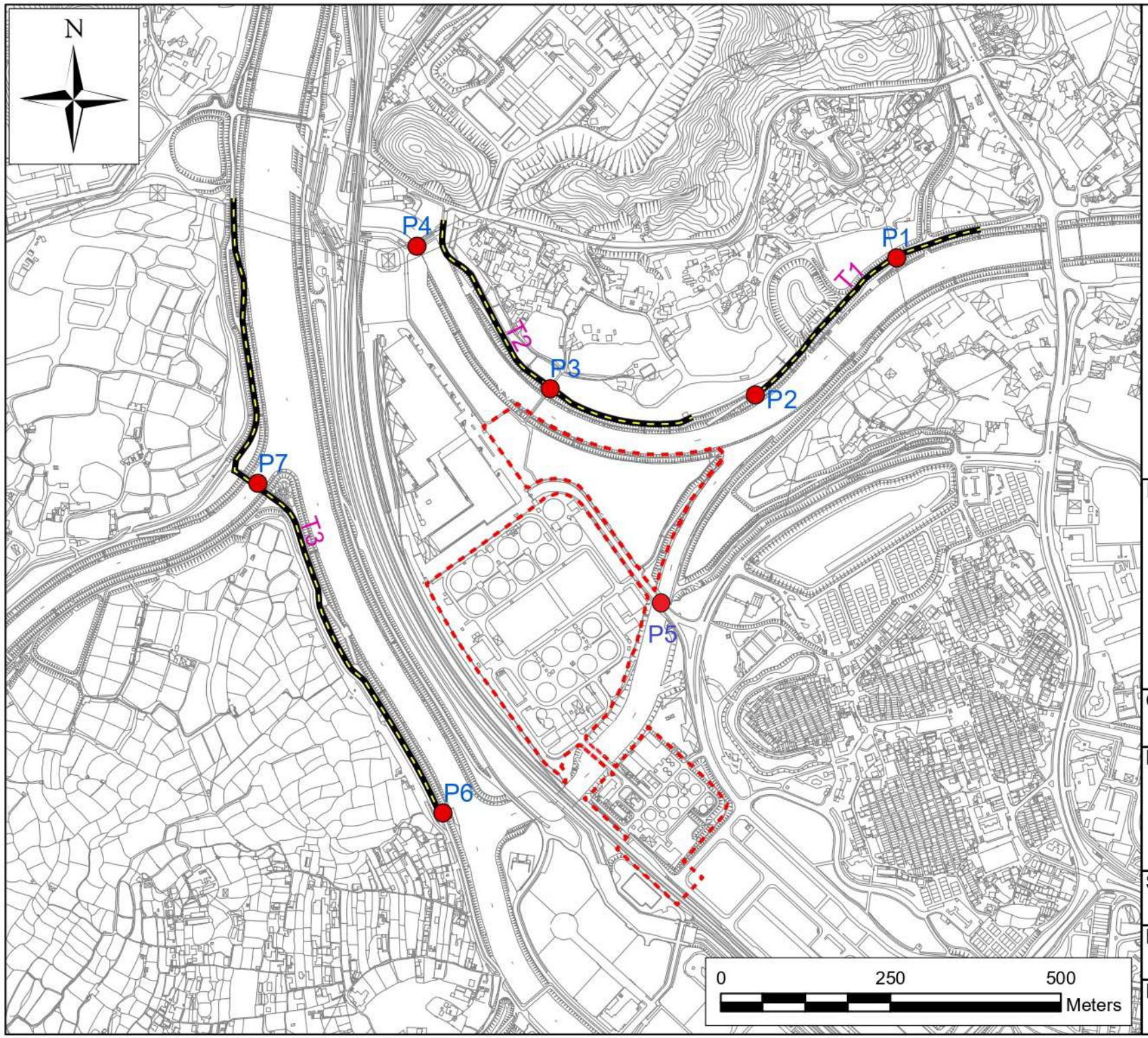


Shek Wu Hui E□luent Polishing Plant - Location o□Air □uality Monitoring Stations	SCALE	1:400□ A4	DATE	SEP 2019
	CHECK	JM	DRAWN	SY
	JOB No.		FIGURE NO. 2	RE□ -

F:/Project_drawings

Figure 4.3

Locations of Ecological Monitoring Stations



Legend

- Project Site Boundary
- Walk Transects
- Point Count Locations

PREPARED BY

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CONTRACT NO.

SPW 12/2021

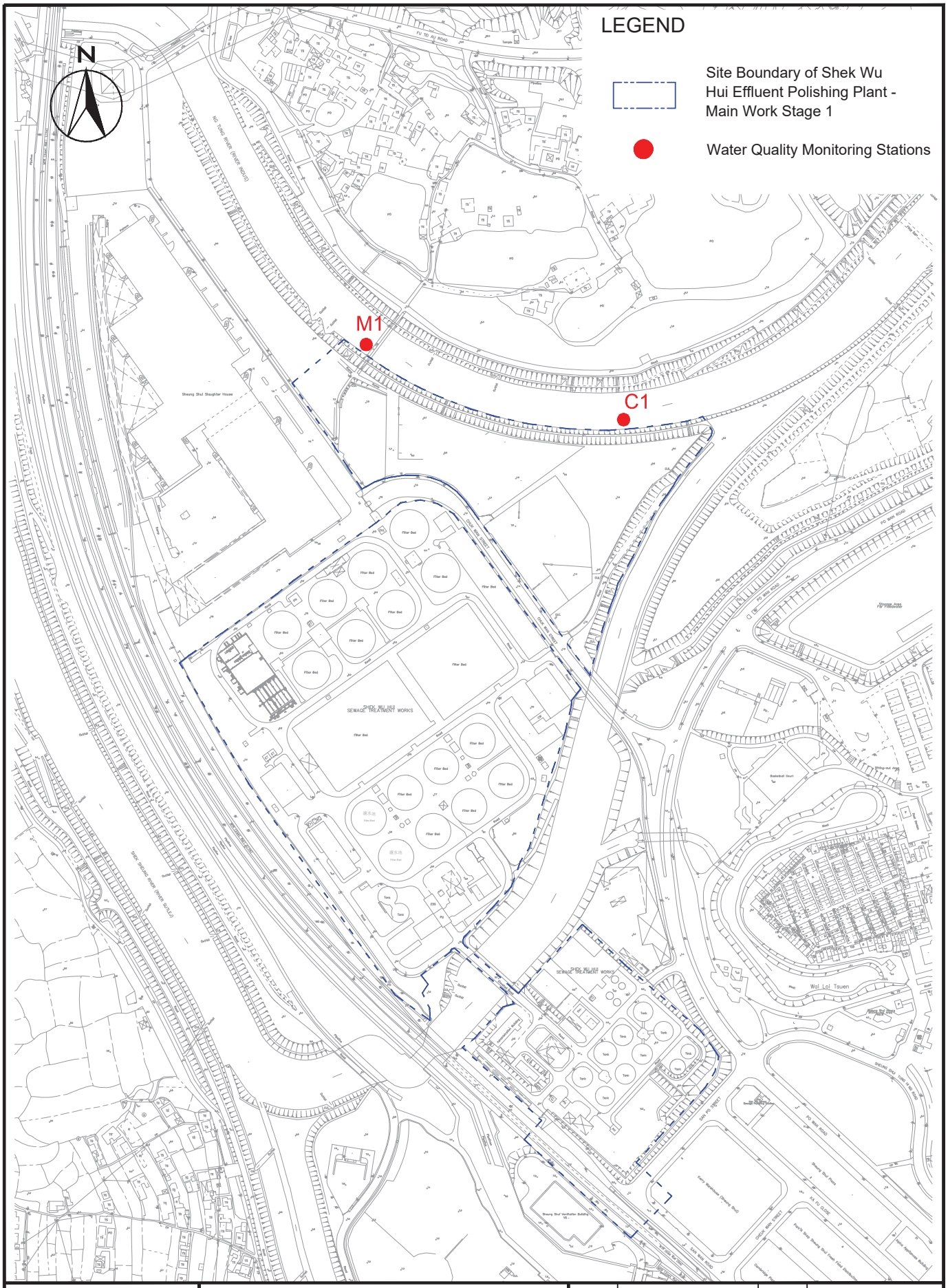
PROJECT TITLE

Shek Wu Hui Effluent Polishing Plant - Main Works Survey Location for Ecological Monitoring

SCALE	DATE
1:7500@A4	***Sept 2021***
DRAWN BY	CHECK BY
AL	***MC***
FIGURE NO.	REVISION NO.
1	*-*

Figure 4.4

Locations of Water Quality Monitoring Stations



	Shek Wu Hui Effluent Polishing Plant - Location of Water Quality Monitoring Stations	SCALE	1:400@A4	DATE	OCT 2019
		CHECK	JM	DRAWN	SY
		JOB No.		FIGURE NO. 5	REV -

F:/Project_drawings

Appendix 2.1

Layout Plan of Construction Activities and Site Record Photos

Site Record Photos

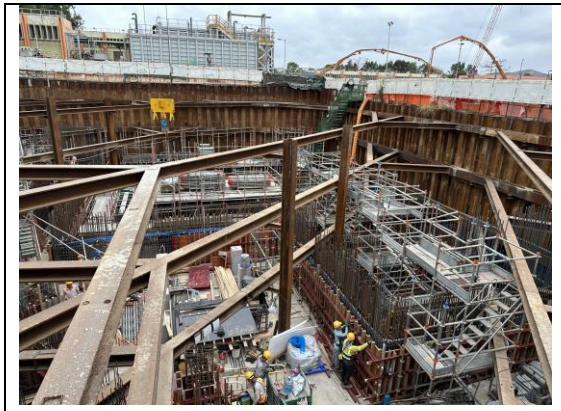
DC/2018/06

SD&THP	CHP	SDB	Outfall

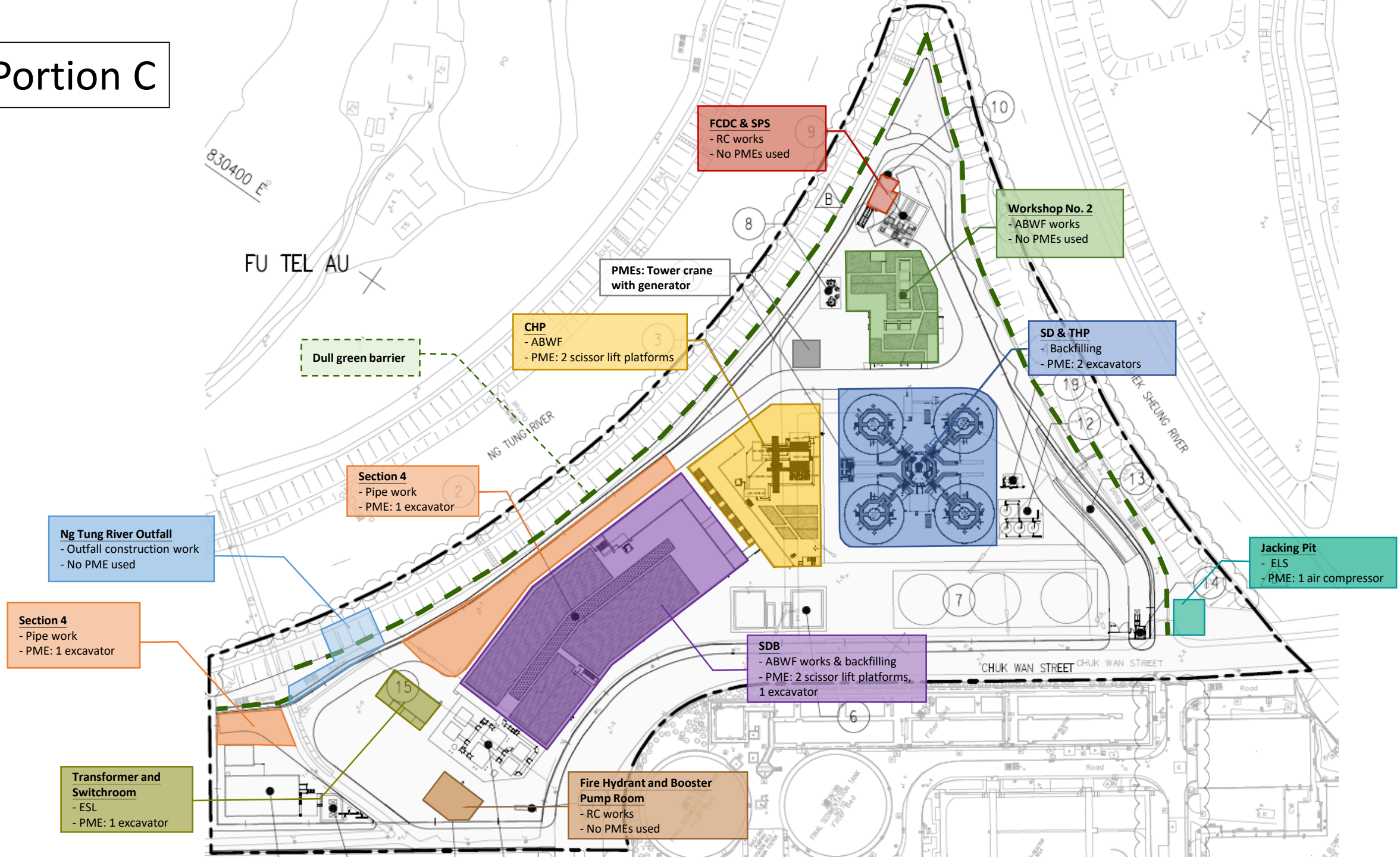
DC/2018/07

BR2	MFB	PST	Inlet

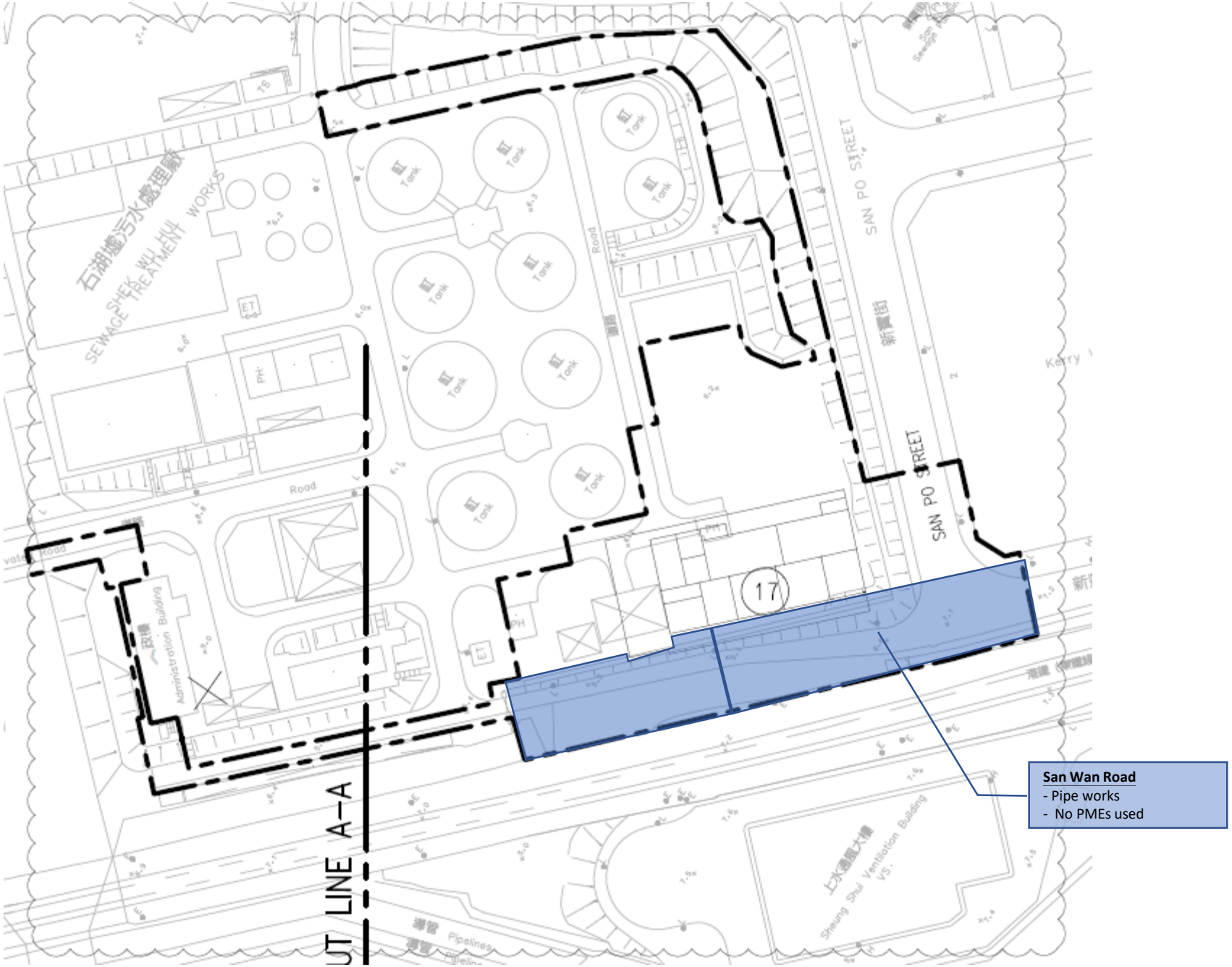
DE/2018/03

	
Sidestream	Bio Gas Tank

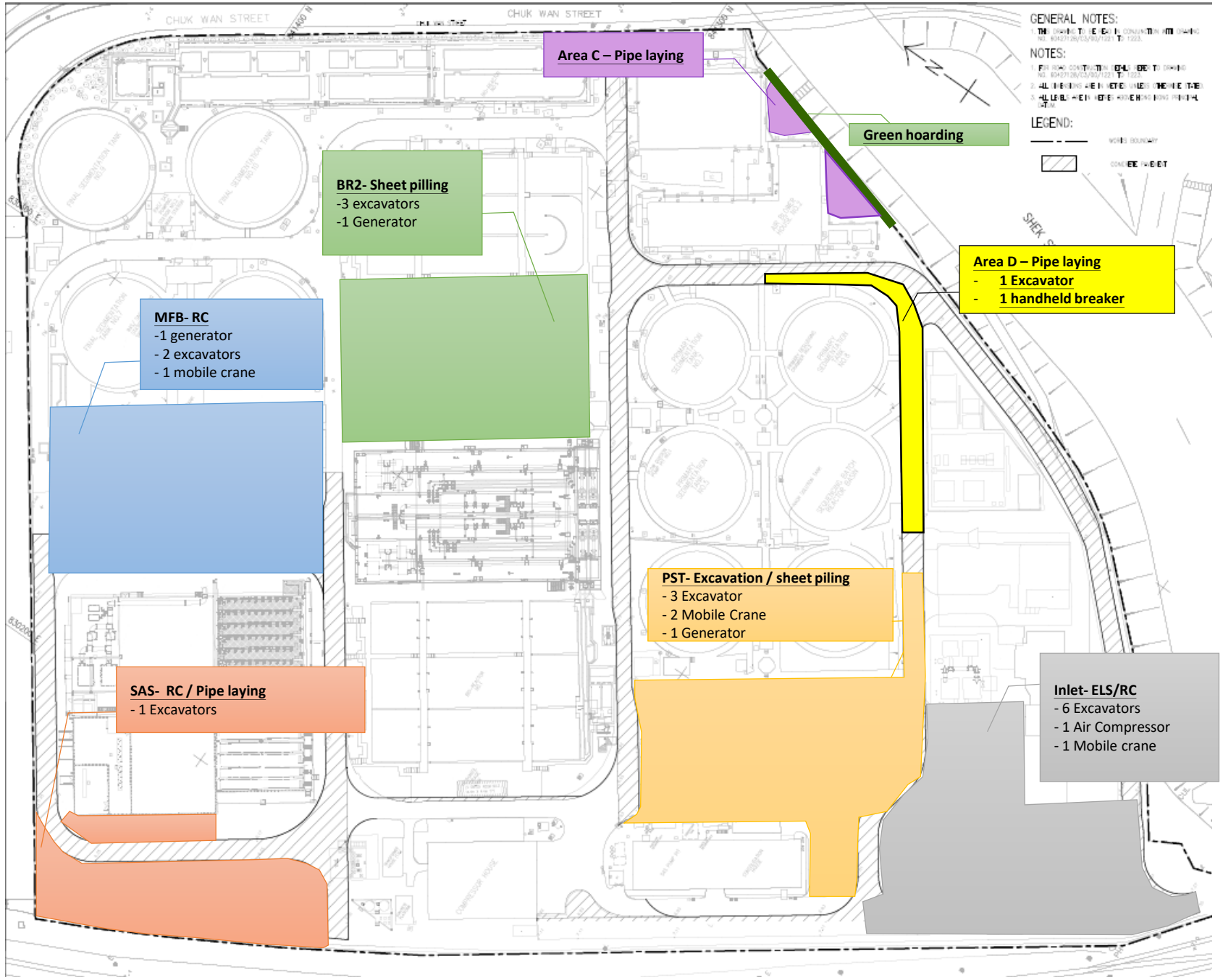
Portion C

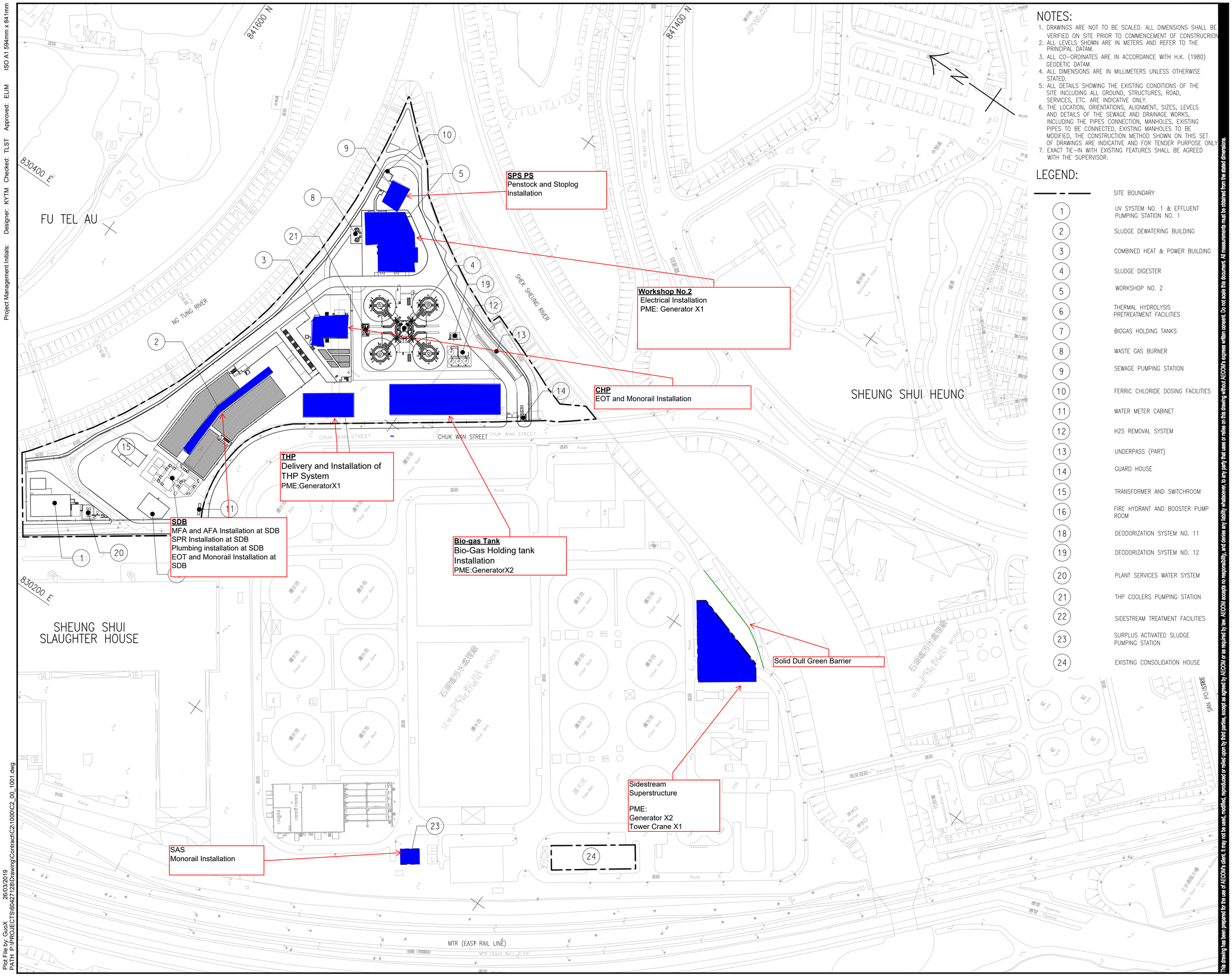

FCDC & SPS
- RC works
- No PMEs used
Workshop No. 2
- ABWF works
- No PMEs used
PMEs: Tower crane with generator
CHP
- ABWF
- PME: 2 scissor lift platforms
Dull green barrier
SD & THP
- Backfilling
- PME: 2 excavators
Section 4
- Pipe work
- PME: 1 excavator
Ng Tung River Outfall
- Outfall construction work
- No PME used
Jacking Pit
- ELS
- PME: 1 air compressor
Section 4
- Pipe work
- PME: 1 excavator
SDB
- ABWF works & backfilling
- PME: 2 scissor lift platforms, 1 excavator
Transformer and Switchroom
- ESL
- PME: 1 excavator
Fire Hydrant and Booster Pump Room
- RC works
- No PMEs used
830400 E
FU TEL AU
NG TUNG RIVER
SHEUNG RIVER
CHUK WAN STREET
CHUK WAN STREET

Portion A


SHEK WU HUI SEWAGE TREATMENT WORKS
石湖墟污水處理廠
Tank
Road
Administration Building
行政樓
Pipelines
管道
SAN PO STREET
新圍街
17
Sheung Shui Ventilation Building
上水通風大樓
CUT LINE A–A
San Wan Road
- Pipe works
- No PMEs used

Portion B


CHUK WAN STREET
CHUK WAN STREET
GENERAL NOTES:
NOTES:
LEGEND:
Area C – Pipe laying
Green hoarding
BR2- Sheet pilling
-3 excavators
-1 Generator
MFB- RC
-1 generator
- 2 excavators
- 1 mobile crane
Area D – Pipe laying
- 1 Excavator
- 1 handheld breaker
PST- Excavation / sheet piling
- 3 Excavator
- 2 Mobile Crane
- 1 Generator
SAS- RC / Pipe laying
- 1 Excavators
Inlet- ELS/RC
- 6 Excavators
- 1 Air Compressor
- 1 Mobile crane



NOTES:

1. DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCRION
2. ALL LEVELS SHOWN ARE IN METERS AND REFER TO THE PRINCIPAL DATAM.
3. ALL CO-ORDINATES ARE IN ACCORDANCE WITH H.K. (1980) GEODETIC DATAM.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
5. ALL DETAILS SHOWING THE EXISTING CONDITIONS OF THE SITE INCLUDING ALL GROUND, STRUCTURES, ROAD, SERVICES, ETC. ARE INDICATIVE ONLY.
6. THE LOCATION, ORIENTATIONS, ALIGNMENT, SIZES, LEVELS AND DETAILS OF THE SEWAGE AND DRAINAGE WORKS, INCLUDING THE PIPES CONNECTION, MANHOLES, EXISTING PIPES TO BE CONNECTED, EXISTING MANHOLES TO BE MODIFIED, THE CONSTRUCTION METHOD SHOWN ON THIS SET OF DRAWINGS ARE INDICATIVE AND FOR TENDER PURPOSE ONLY
7. EXACT TIE-IN WITH EXISTING FEATURES SHALL BE AGREED WITH THE SUPERVISOR.

LEGEND:

— - —	SITE BOUNDARY
1	UV SYSTEM NO. 1 & EFFLUENT PUMPING STATION NO. 1
2	SLUDGE DEWATERING BUILDING
3	COMBINED HEAT & POWER BUILDING
4	SLUDGE DIGESTER
5	WORKSHOP NO. 2
6	THERMAL HYDROLYSIS PRETREATMENT FACILITIES
7	BIOGAS HOLDING TANKS
8	WASTE GAS BURNER
9	SEWAGE PUMPING STATION
10	FERRIC CHLORIDE DOSING FACILITIES
11	WATER METER CABINET
12	H2S REMOVAL SYSTEM
13	UNDERPASS (PART)
14	GUARD HOUSE
15	TRANSFORMER AND SWITCHROOM
16	FIRE HYDRANT AND BOOSTER PUMP ROOM
18	DEODORIZATION SYSTEM NO. 11
19	DEODORIZATION SYSTEM NO. 12
20	PLANT SERVICES WATER SYSTEM
21	THP COOLERS PUMPING STATION
22	SIDESTREAM TREATMENT FACILITIES
23	SURPLUS ACTIVATED SLUDGE PUMPING STATION
24	EXISTING CONSOLIDATION HOUSE

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AECOM

PROJECT 項目

SHEK WU HUI EFFLUENT POLISHING PLANT

CONTRACT TITLE
SHEK WU HUI EFFLUENT POLISHING PLANT - MAIN WORKS STAGE 1 - SIDESTREAM TREATMENT FACILITIES AND E&M WORKS FOR SLUDGE TREATMENT FACILITIES

CLIENT 業主

渠務署 Drainage Services Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	MAR. 19	TENDER DRAWING	TLST

STATUS 階段

SCALE 比例: A1 1 : 1000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號: 60427128

CONTRACT NO. 合約編號: DE/2018/03

SHEET TITLE 圖紙名稱

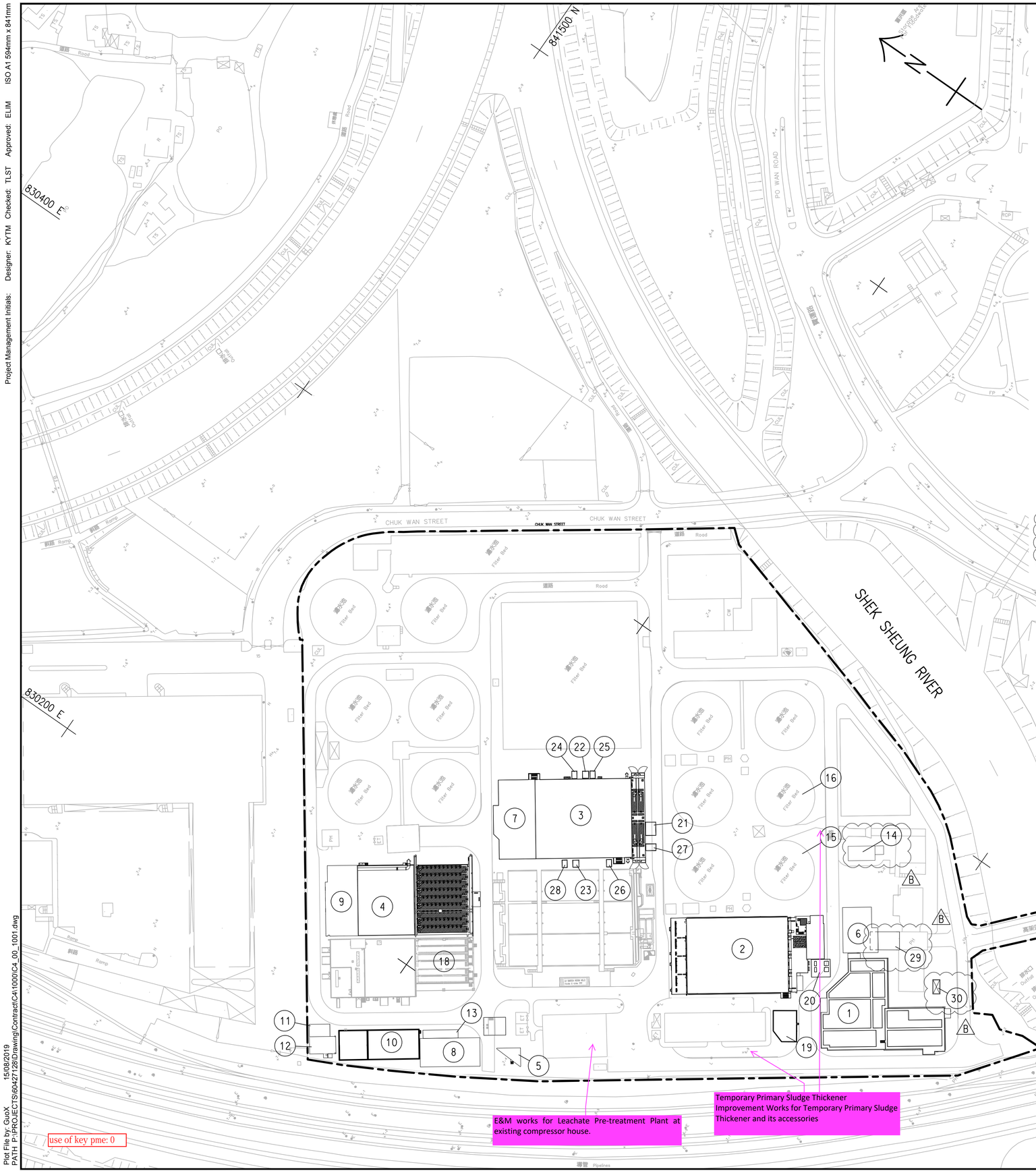
SHEK WU HUI EFFLUENT POLISHING PLANT GENERAL LAYOUT PLAN

SHEET NUMBER 圖紙編號

60427128/C2/00/1001

Project Management Initials: Designer: KYTM Checked: TLST Approved: ELIM ISO A1 594mm x 841mm

Plot File by: GuoX 26/03/2019
PATH P:\PROJECTS\60427128\Drawing\Contract\C2\1000\C2_00_1001.dwg



10	CHEMICAL SYSTEM NO. 1
11	EMERGENCY GENERATOR HOUSE
12	FS AND SPRINKLER PUMPING ROOM
13	CHEMICAL SYSTEM NO. 2
14	TEMPORARY FILTRATE LIFTING WELL AND EQUALISATION TANK
15	EXISTING PRIMARY SEDIMENTATION TANK NO.4
16	EXISTING PRIMARY SEDIMENTATION TANK NO.6
17	EXISTING SLUDGE PRESS HOUSE
18	EXISTING MBR FACILITIES BUILDING NO.1
19	STREET FIRE HYDRANT PUMP ROOM (B)
20	FLOWMETER CHAMBER NO.1
21	FLOWMETER CHAMBER NO.2
22	FLOWMETER CHAMBER NO.3
23	FLOWMETER CHAMBER NO.4
24	GATE VALVE CHAMBER NO.1
25	GATE VALVE CHAMBER NO.2
26	GATE VALVE CHAMBER NO.3
27	PLUG VALVE CHAMBER NO.1
28	PLUG VALVE CHAMBER NO.2
29	EXISTING MAIN POWER HOUSE
30	RELOCATED DEODORISATION SYSTEM (B)

NOTES:

1. DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCRION.
2. ALL LEVELS SHOWN ARE IN METERS AND REFER TO THE PRINCIPAL DATAM.
3. ALL CO-ORDINATES ARE IN ACCORDANCE WITH H.K. (1980) GEODETIC DATAM.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
5. ALL DETAILS SHOWING THE EXISTING CONDITIONS OF THE SITE INCLUDING ALL GROUND, STRUCTURES, ROAD, SERVICES, ETC. ARE INDICATIVE ONLY.
6. THE LOCATION, ORIENTATIONS, ALIGNMENT, SIZES, LEVELS AND DETAILS OF THE SEWAGE AND DRAINAGE WORKS, INCLUDING THE PIPES CONNECTION, MANHOLES, EXISTING PIPES TO BE CONNECTED, EXISTING MANHOLES TO BE MODIFIED, THE CONSTRUCTION METHOD SHOWN ON THIS SET OF DRAWINGS ARE INDICATIVE AND FOR TENDER PURPOSE ONLY.
7. EXACT TIE-IN WITH EXISTING FEATURES SHALL BE AGREED WITH THE SUPERVISOR.

LEGEND:

— - —	SITE BOUNDARY
1	INLET WORKS NO.1
2	PRIMARY SEDIMENTATION TANKS NO.1 – 4
3	BIOREACTOR NO. 2A & 2B
4	MEMBRANE FACILITIES BUILDING NO.2
5	TEMPORARY CHEMICAL DOSING SYSTEM
6	DEODORISATION SYSTEM NO.1
7	DEODORISATION SYSTEM NO.2A
8	DEODORISATION SYSTEM NO.3A
9 (B)	DEODORISATION SYSTEM NO.3B

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AECOM

PROJECT 項目

SHEK WU HUI EFFLUENT POLISHING PLANT

CONTRACT TITLE
SHEK WU HUI EFFLUENT POLISHING PLANT - MAIN WORKS STAGE 1 - E&M WORKS FOR SEWAGE TREATMENT FACILITIES

CLIENT 業主

渠務署 Drainage Services Department

CONSULTANT 工程顧問公司

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ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
B	AUG. 19	TENDER ADDENDUM NO. 3	TLST
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-	APR. 19	TENDER DRAWING	TLST

STATUS 階段

SCALE 比例: A1 1 : 1000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號: 60427128

CONTRACT NO. 合約編號: DE/2018/04

SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN

SHEET NUMBER 圖紙編號

60427128/C4/00/1001B

Project Management Initials: Designer: KYTM Checked: TLST Approved: ELIM ISO A1 594mm x 841mm

Plot File by: GuoX 15/08/2019
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use of key pme: 0

Appendix 3.1

Environmental Mitigation Implementation Schedule

Appendix 3.1 Environmental Mitigation Implementation Schedule

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	Remark
Air Quality Monitoring							
S2.4.1.3	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:						
	• 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;	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)	^
	• 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;						^

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	Remark
	• 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;						^
	• Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;						^
	• Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and 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;						^
	• Any skip hoist for material transport should be totally enclosed by impervious sheeting;						^
	• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;						^
	• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;						^

	• Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and						^
	• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies						^

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	Remark
Noise Impact							
S3.4.1.1	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)	^
S3.4.1.2	Good Site Practice:						
	• 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.						^

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	Remark
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 and operation 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	The following measures to avoid, minimise and mitigate impact on water quality during construction phase shall be implemented						
	• 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;						^

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	Remark
	• 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;						^
	• Proper locations for discharge outlets of temporary wastewater treatment facilities well away from sensitive receivers should be identified;						^
	• 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; 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.						^

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	Remark
	• 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; and						*
	• Other measures as detailed in this schedule.						^

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	Remark
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	Sewage from Workforce						
	• 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	Remark
Waste Management							
S6.2.2.1	Good Site Practices and Waste Reduction Measures						
	• 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	Contractors	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	Waste Reduction Measures						
	• 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	Contractors	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	Remark
S6.2.4.1	Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include:	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	• Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;						^
	• Stockpiling area should be provided with covers and water spraying system to prevent materials from windblown or being washed away; and						^
	• Different locations should be designated to stockpile each material to enhance reuse.						^
S6.2.4.2	Storage, Collection and Transportation of Waste (con't)						
	• 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; and						^
	• Disposal of waste should be done at licensed waste disposal facilities						^
S6.2.5.2	C&D Materials from Site Formation						
	• Maintain temporary stockpiles and reuse excavated fill material for backfilling;	Minimize waste impacts arising from waste storage	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						^
	• 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	C&D Material from Buildings Demolition and New Building Construction						

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	Remark
	• 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 arising from waste storage	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	*
	• The use of wooden hoardings shall not be allowed. An alternative material, such as metal, aluminium or alloy etc, could be used.						^
	• 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	Chemical Waste						
	• 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						

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	Remark
	• 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	Remark
Landscape and Visual							
S7.3.1.1	Good Site Practices Measures						
	• 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	Remark
S7.3.2.1	MM5 - Tree Transplantation • Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC No. 2/2004 and DEVB TC(W) No. 7/2015 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.	Transplant Trees where suitable for transplantation	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No.2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit	N/A
S7.3.2.1	MM6 - Slope Landscaping						
	• Site formation should be reduced as far as possible. Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape recourses and charter. Woodland tree seedings and/or shrubs should be planted where slope gradient and site conditions allow.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure manmade slopes are as visually amenable as possible.	Designer / Contractor	Work Sites	Prior to construction, construction phase and operation phase	GEO Publication (1999) - Use of Vegetation as Surface Protection on Slope; GEO Publication No. 1/2011- Technical Guidelines on Landscape Treatment for Slopes	N/A
	• In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping						N/A
S7.3.2.1	MM7 - Compensatory Planting						

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	Remark
	• 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	Remark
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. Details can refer to the ecological impact assessment. [Chapter 13 of the EIA Report of NENT NDAs (Register No. AEIAR-175- 2013)]	To screen undesirable views of the works site.	Designer	Work Sites	Construction phase		N/A
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		N/A

Remarks:
^ Implemented
* To be followed-up by Contractor
# Not Implemented
N/A Not Applicable

Appendix 4.1

Action and Limit Level

Action and Limit Levels

Air Quality Monitoring

Monitoring Station	1-hour TSP Level in μg/m^3		24-hour TSP Level in μg/m^3	
	Action Level	Limit Level	Action Level	Limit Level
AM1	320	500	189	260
AM2	322	500	187	260

Noise Monitoring

Monitoring Stations	Leq(30min),dB(A)	
	Action Level (dB(A))	Limit Level (dB(A))
NM1	When one documented complaint is received	75*
NM2		
NM3		

*Notes: (1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) used by the Noise Control Authority should be followed.

(2) The limit level shall be 70 dB(A) and 65 dB(A) for educational institute during normal teaching periods and school examination periods, respectively.

Ecological Monitoring of 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 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 data.

Water Quality Monitoring

Parameter (Unit)	Depth	Action Level	Limit Level
DO (mg/L)	Middle	**≤ 7.8 mg/L**	**≤ 7.7 mg/L**
Turbidity (NTU)	Depth-average	**≥ 14.6 NTU** or 120% of upstream control station's Turbidity at the same tide of the same day	**≥ 15.6 NTU** or 130% of upstream control station's Turbidity at the same tide of the same day
SS (mg/L)	Depth-average	**≥ 18.8 mg/L** or 120% of upstream control station's SS at the same tide of the same day	**≥ 19.5 mg/L** or 130% of upstream control station's SS at the same tide of the same day

Appendix 4.2

Copies of Calibration Certificates

TISCH Environmental

RECALIBRATION DUE DATE:
June 28, 2023

Certificate of Calibration

Calibration Certification Information					
Cal. Date:	June 28, 2022	**Rootsmeter S/N:** 438320		**Ta:** 296	°K
Operator:	Jim Tisch			**Pa:** 755.1	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **3880**			

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4500	3.2	2.00
2	3	4	1	1.0240	6.4	4.00
3	5	6	1	0.9130	7.9	5.00
4	7	8	1	0.8690	8.8	5.50
5	9	10	1	0.7180	12.8	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)
0.9961	0.6870	1.4144	0.9958	0.6867	0.8854
0.9918	0.9686	2.0003	0.9915	0.9683	1.2522
0.9899	1.0842	2.2364	0.9895	1.0838	1.4000
0.9887	1.1377	2.3456	0.9883	1.1373	1.4683
0.9834	1.3696	2.8289	0.9830	1.3691	1.7708
QSTD	**m=**	**2.07013**	**QA**	**m=**	**1.29628**
	b=	**-0.00727**		**b=**	**-0.00455**
	r=	**0.99999**		**r=**	**0.99999**

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

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

www.tisch-env.com
TOLL FREE: (877)263-7610
FAX: (513)467-9009

Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	AM1a	**Calbration Date**	:	6-Jan-23
Equipment no.	:	HVS001 (0401-1105)	**Calbration Due Date**	:	6-Mar-23

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	302	Kelvin	**Pressure, P_a**	1008	mmHg

Orifice Transfer Standard Information					
Equipment No.	**3880**	**Slope, m_c**	2.07013	**Intercept, bc**	-0.00727
Last Calibration Date	28-Jun-22	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-23	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
1	1.4	1.4	2.8	0.8044	21	20.8058
2	2.3	2.3	4.6	1.0300	32	31.7041
3	3.5	3.5	7.0	1.2698	44	43.5932
4	4.3	4.3	8.6	1.4070	51	50.5285
5	5.6	5.6	11.2	1.6052	60	59.4452

By Linear Regression of Y on X

Slope, m	=	48.9134	Intercept, b	=	-17.5531
Correlation Coefficient*	=	0.9998			
Calibration Accepted	=	Yes/~~No~~**			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : Serial No.:0401-1105

Calibrated by	:	Alan Ng	**Checked by**	:	Alex Chan
Date	:	6-Jan-23	**Date**	:	6-Jan-23

Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	AM1a	**Calbration Date**	:	7-Mar-23
Equipment no.	:	2036	**Calbration Due Date**	:	7-May-23

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1017	mmHg

Orifice Transfer Standard Information					
Equipment No.	**3880**	**Slope, m_c**	2.07013	**Intercept, bc**	-0.00727
Last Calibration Date	28-Jun-22	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-23	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
1	1.0	1.0	2.0	0.6914	36	36.2486
2	1.5	1.5	3.0	0.8460	42	42.2900
3	2.3	2.3	4.6	1.0467	50	50.3453
4	3.1	3.1	6.2	1.2146	54	54.3729
5	4.0	4.0	8.0	1.3793	60	60.4143

By Linear Regression of Y on X

Slope, m	=	34.6587	Intercept, b	=	12.8419
Correlation Coefficient*	=	0.9970			
Calibration Accepted	=	Yes/~~No~~**			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : Serial No.:2036

Calibrated by	:	William Cheung	**Checked by**	:	Derek Lo
Date	:	7-Mar-23	**Date**	:	7-Mar-23

Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	AM2a	**Calbration Date**	:	6-Jan-23
Equipment no.	:	HVS003 (1096-2305)	**Calbration Due Date**	:	6-Mar-23

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	302	Kelvin	**Pressure, P_a**	1008	mmHg

Orifice Transfer Standard Information					
Equipment No.	**3880**	**Slope, m_c**	2.07013	**Intercept, bc**	-0.00727
Last Calibration Date	28-Jun-22	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-23	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
1	2.3	2.3	4.6	1.0300	23	22.7873
2	3.5	3.5	7.0	1.2698	33	32.6949
3	4.6	4.6	9.2	1.4552	44	43.5932
4	5.2	5.2	10.4	1.5469	48	47.5562
5	6.1	6.1	12.2	1.6752	55	54.4915

By Linear Regression of Y on X

Slope, m	=	47.3405	Intercept, b	=	-26.2467
Correlation Coefficient*	=	0.9980			
Calibration Accepted	=	Yes/~~No~~**			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : Serial No.: 1096-2305

Calibrated by	:	Alan Ng	**Checked by**	:	Alex Chan
Date	:	6-Jan-23	**Date**	:	6-Jan-23

Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	AM2a	**Calbration Date**	:	7-Mar-23
Equipment no.	:	774	**Calbration Due Date**	:	7-May-23

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1017	mmHg

Orifice Transfer Standard Information					
Equipment No.	**3880**	**Slope, m_c**	2.07013	**Intercept, bc**	-0.00727
Last Calibration Date	28-Jun-22	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-23	$= m_c \times Q_{std} + b_c$			

Calibration of TSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W**	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$
	(up)	(down)	(difference)	**X-axis**	(CFM)	**Y-axis**
1	1.0	1.0	2.0	0.6914	10	10.0691
2	1.7	1.7	3.4	0.9004	20	20.1381
3	2.7	2.7	5.4	1.1338	30	30.2072
4	3.3	3.3	6.6	1.2531	34	34.2348
5	4.3	4.3	8.6	1.4299	40	40.2762

By Linear Regression of Y on X

Slope, m	=	41.0046	Intercept, b	=	-17.3701
Correlation Coefficient*	=	0.9970			
Calibration Accepted	=	Yes/~~No~~**			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : Serial No.:774

Calibrated by	:	William Cheung	**Checked by**	:	Derek Lo
Date	:	7-Mar-23	**Date**	:	7-Mar-23

Met One Instruments, Inc.
1600 NW Washington Blvd, Grants Pass, OR
TEL (541) 471-7111 Fax (541) 471-7116

Certificate of Calibration

BT-645

Particulate Monitor

Recommended calibration interval is 24 months from first day of use.

Unit Info

Model: *BT-645* **81865 Firmware Rev:** *1.3.0*

Serial Number: *C15622* **81113** *0.2.4*

Calibrated By: *J. Walker* AT28 **Cal. Date:** *07/07/2022*

Quality Inspector: Carri Chinkel **Date:** *07/07/2022*

Calibration Hz/µg/m³: *7.10*

Final Test

Flow (2.0 L/M): Pass

Ambient T (C) *23.8*

RH, % *38.7*

Serial Communication: Pass

BT-645 Conc.: *425.64* Standard Conc: *420.49*

Calibration Standards

Standards	Manufacturer	Model	SN	Cal Due
RMS Multimeter	Fluke	189 Multimeter	94060816	11/08/2022
RH &TEMPERATURE	Met One Instruments	083E-1-35	GP-679	05/17/2023
Primary Flow Meter	TSI	4040	40401945009	01/31/2023
Digital Dust Indicator	SIBATA	LD-3	476795	08/23/2022

The standards used for this calibration have accuracy equal to or greater than the instrument tested. These standards are on record and traceable to NIST to the extent allowed by the institute's calibration facility. Unless otherwise stated, all instruments are calibrated to meet the manufacturer's published specifications.

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. **211036**

Customer : Lam Environmental Services Limited

Address : 19/F, Remex Centre, 42 Wong Chuk Hang Road, Hong Kong

Order No. : Q24331 **Date of receipt :** 24-Nov-22

Item Tested

Description : Aerosol Mass Monitor

Manufacturer : Met One **I.D.** : --

Model : Aerocet 831 **Serial No.** : Y23153

Test Conditions

Date of Test : 13-Dec-22 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Calibration procedure : Manufacturer recommended method (gravimetric), Z28.

Test Results

All results were within the tolerance(s).

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S136B	Stop Watch	201879	SCL-HKSAR
S238	Micro Balance	108228	NIM-PRC
S201	Std. Test Dust	61291	NIST
S207B	Std. Flowmeter	LL-2104002489	NIM-PRC

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant.
The test results apply to the above Unit-Under-Test only

Calibrated by : Kin Wong

Approved by : Steve Kwan

Date: 13-Dec-22

This Certificate is issued by:
Hong Kong Calibration Ltd.
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong.
Tel: 2425 8801 Fax: 2425 8646

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O

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Results :

1. General

Internal Filters : checked and found clean.

2. Flow Meter

UUT Nominal Value (LPM)	Measured Value (LPM)	Tolerance (LPM)	Uncertainty
2.83	2.80	± 0.15	± 0.05

3. Timer

Reference Value	UUT Reading	Tolerance	Uncertainty
10′ 00″ 40	10 min	± 2 sec/hr	± 0.5 sec/hr

4. Dust Particle (PM_{10})

Applied Value ($\mu g/m^3$)	UUT Reading ($\mu g/m^3$) K Factor : 1.26	Tolerance	Uncertainty
350	364	± 20 %	± 10 %

Remark : 1. UUT: Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. ISO 12103-1 A1 respirable standard test dust was used for the calibration.
4. The K Factor had been adjusted from 3.00 to 1.26.

---------- END ----------

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GEOTECHNICS & CONCRETE ENGINEERING (H.K.) LTD.
6 KO SHAN RD., GROUND FL., HUNG HOM, KOWLOON, HONG KONG.
TEL.: 852-2365 9123 FAX NO.: 852-2765 8034

Calibration Data for High Volume Sampler (TSP Sampler)

Equipment no.	2493
Calbration Date	3/2/2023
Calbration Due Date	3/4/2023
Location	G/FL;No.20,Pak Kung Street,Hung Hom ,Kowloon.

Ambient Condition					
Temperature, T_a	292	Kelvin	**Pressure, P_a**	1018	mmHg

Orifice Transfer Standard Information					
Equipment No.	**3880**	**Slope, m_c**	2.07013	**Intercept, bc**	-0.00727
Last Calibration Date	28/6/2022	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28/6/2023	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

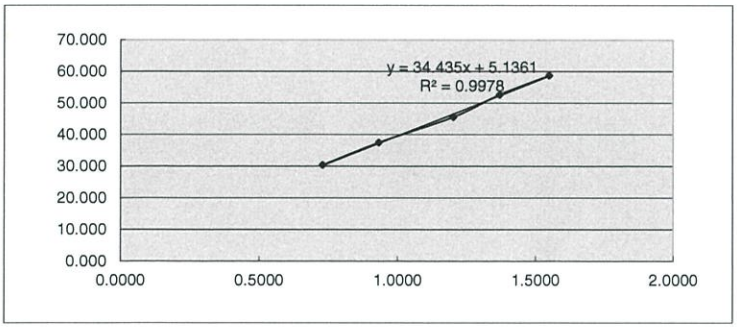
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	1.1	1.1	2.2	0.7290	30	30.3769
2	1.8	1.8	3.6	0.9316	37	37.4648
3	3.0	3.0	6.0	1.2016	45	45.5653
4	3.9	3.9	7.8	1.3696	52	52.6532
5	5.0	5.0	10.0	1.5503	58	58.7286

By Linear Regression of Y on X

Slope, m = 34.4355 Intercept, b = 5.1361

Correlation Coefficient* = 0.9989

Calibration Accepted = Yes/~~No~~**



* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks :

Calibrated by : Poon Wai Hung

Checked by : Lo Kam Chuen

Date : 3/4/2023

Date : 3/4/2023

GEOTECHNICS & CONCRETE ENGINEERING (H.K.) LTD.
6 KO SHAN RD., GROUND FL., HUNG HOM, KOWLOON, HONG KONG.
TEL.: 852-2365 9123 FAX NO.: 852-2765 8034

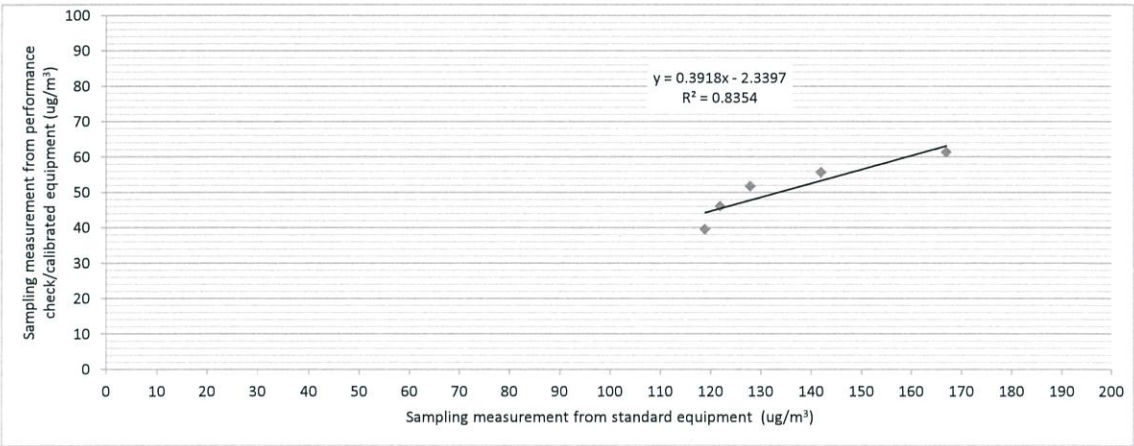
Equipment	Portable Dust Meter	Standard Equipment (High Volume Sampler)
Manufacturer	MET ONE INSTRUMENTS	TISCH
Model Number	AEROCET831	TE-5170
Serial Number	Y23153	2493
Date	3/2/2023	3/2/2023
Location	GCE laboratory-G/FL;No.20 Pak Kung Street., Hung Hom, Kowloon	

Portable Dust Meter Performance Check Results

Check Point	Date & Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m^3 (Standard equipment) (X - Axis)	Concentration in ug/m^3 (Performance Check / Calibrated equipment) (Y - Axis)
1	3/2/2023 9:30 -10:30	18	1019	167	61
2	3/2/2023 11:32 -12:32	18	1019	142	56
3	3/2/2023 12:34 - 13:34	18	1019	128	52
4	3/2/2023 13:36 - 14:36	18	1019	122	46
5	3/2/2023 14:38 - 15:38	18	1019	119	40

Linear Regression of Y on X

Slope (K- factor) : 2.2000
Correlation Coefficient : 0.9140
Validity of Performance Check / Calibration Record : 3/2/2024



Operator: Poon Wai Hung Date: 9/2/2023

Checked by: Lo Kam Chuen Date: 9/2/2023

GEOTECHNICS & CONCRETE ENGINEERING (H.K.) LTD.
6 KO SHAN RD., GROUND FL., HUNG HOM, KOWLOON, HONG KONG.
TEL.: 852-2365 9123 FAX NO.: 852-2765 8034

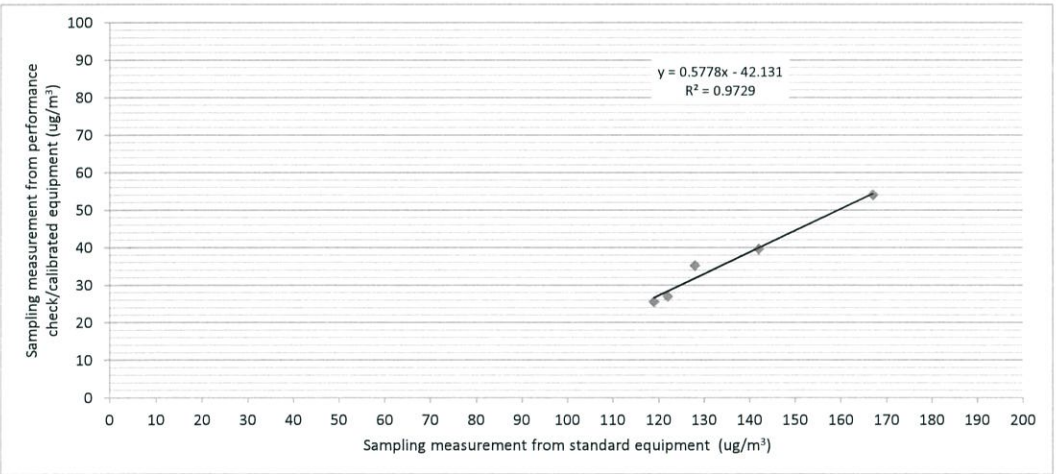
Equipment	Portable Dust Meter	Standard Equipment (High Volume Sampler)
Manufacturer	MET ONE INSTRUMENTS	TISCH
Model Number	BT-645	TE-5170
Serial Number	C15622	2493
Date	3/2/2023	3/2/2023
Location	GCE laboratory - G/FL; No.20, Pak Kung Street, Hung Hom,Kowloon.	

Portable Dust Meter Performance Check Results

Check Point	Date & Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m^3 (Standard equipment) (X - Axis)	Concentration in ug/m^3 (Performance Check / Calibrated equipment) (Y - Axis)
1	3/2/2023 9:30 -10:30	18	1019	167	54
2	3/2/2023 11:32 -12:32	18	1019	142	40
3	3/2/2023 12:34 - 13:34	18	1019	128	35
4	3/2/2023 13:36 - 14:36	18	1019	122	27
5	3/2/2023 14:38 - 15:38	18	1019	119	25

Linear Regression of Y on X

Slope (K- factor) : 1.7000
Correlation Coefficient : 0.9863
Validity of Performance Check / Calibration Record : 3/2/2024



Operator: Poon Wai Hung Date: 9/2/2023

Checked by: Ho Kam Chuen Date: 9/2/2023

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ilac-MRA HKAS HOKLAS 028 CAL

CERTIFICATE OF CALIBRATION

Certificate No.: 22CA0511 01 **Page** 1 **of** 2

Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250-L	4950	ZC0032
Serial/Equipment No.:	2722311	2698703	13318
Adaptors used:	-	-	-

Item submitted by

Customer Name:	Lam Environmental Services Limited
Address of Customer:	-
Request No.:	-
Date of receipt:	11-May-2022

Date of test: 12-May-2022

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2022	CIGISMEC
Signal generator	DS 360	61227	27-May-2022	CEPREI

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1005 ± 5 hPa

Test specifications

1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Feng Junqi **Date:** 13-May-2022 **Company Chop:** SOILS AND MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

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CERTIFICATE OF CALIBRATION

(Continuation Page)

1, Electrical Tests

The electrical tests were perfomed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100μs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor $1/10^3$ at 4kHz	Pass	0.3	
	1 ms burst duty factor $1/10^4$ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by: Fung Chi Yip
Date: 12-May-2022

Checked by: Chan Yuk Yiu
Date: 13-May-2022

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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SMECLab

Test Data for Sound Level Meter

Sound level meter type:	2250-L	Serial No.	2722311	Date	12-May-2022
Microphone type:	4950	Serial No.	2698703		
Preamp type:	ZC0032	Serial No.	13318	Report:	22CA0511 01

SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	13.3	dB
Noise level in C weighting	17.5	dB
Noise level in Lin	22.8	dB

LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals.(SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
124.0	124.0	124.0	0.7	0.0	0.0
129.0	129.0	129.0	0.7	0.0	0.0
134.0	134.0	134.0	0.7	0.0	0.0
135.0	135.0	135.0	0.7	0.0	0.0
136.0	136.0	136.0	0.7	0.0	0.0
137.0	137.0	137.0	0.7	0.0	0.0
138.0	138.0	138.0	0.7	0.0	0.0
139.0	139.0	139.0	0.7	0.0	0.0
140.0	140.0	140.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	49.0	49.0	0.7	0.0	0.0
44.0	44.0	44.0	0.7	0.0	0.0
39.0	39.0	39.0	0.7	0.0	0.0

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SMECLab

Sound level meter type:	2250-L	Serial No.	2722311	Date	12-May-2022
Microphone type:	4950	Serial No.	2698703		
Preamp type:	ZC0032	Serial No.	13318	Report:	22CA0511 01

34.0	34.0	34.0	0.7	0.0	0.0
33.0	33.0	33.0	0.7	0.0	0.0
32.0	32.0	32.0	0.7	0.0	0.0
31.0	31.0	31.0	0.7	0.0	0.0
30.0	29.9	29.9	0.7	-0.1	-0.1

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	30.0	29.9	0.7	-0.1
	138.0	138.0	0.7	0.0

FREQUENCY WEIGHTING TEST

The frequency response of the weighting netwoks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	N/A	54.5	1.5	1.5	-0.1
63.1	94.0	67.8	0.0	67.8	1.5	1.5	0.0
125.9	94.0	77.9	0.0	77.9	1.0	1.0	0.0
251.2	94.0	85.4	0.0	85.4	1.0	1.0	0.0
501.2	94.0	90.8	0.0	90.8	1.0	1.0	0.0
1995.0	94.0	95.2	0.0	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	-0.1	94.9	1.0	1.0	0.0
7943.0	94.0	92.9	-0.3	92.6	1.5	3.0	0.0
12590.0	94.0	89.7	-0.3	89.4	3.0	6.0	0.0

Frequency weighting C:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	N/A	91.1	1.5	1.5	0.1
63.1	94.0	93.2	0.0	93.2	1.5	1.5	0.0
125.9	94.0	93.8	0.0	93.8	1.0	1.0	0.0

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SMECLab

Sound level meter type: 2250-L Serial No. 2722311 Date 12-May-2022
Microphone type: 4950 Serial No. 2698703
Preamp type: ZC0032 Serial No. 13318 Report: 22CA0511 01

251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	93.8	0.0	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	-0.1	93.1	1.0	1.0	0.0
7943.0	94.0	91.0	-0.3	90.7	1.5	3.0	0.0
12590.0	94.0	87.8	-0.3	87.5	3.0	6.0	0.0

Frequency weighting Lin:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	N/A	94.1	1.5	1.5	0.1
63.1	94.0	94.0	0.0	94.0	1.5	1.5	0.0
125.9	94.0	94.0	0.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	0.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	-0.1	93.9	1.0	1.0	0.0
7943.0	94.0	94.0	-0.3	93.7	1.5	3.0	0.0
12590.0	94.0	94.0	-0.3	93.7	3.0	6.0	0.0

*Deviation = Actual level - (Expected level + Correction of electrical response)
The correction of electrical response is specified in the Table A.2 of technical documentation of BE 1853-11. The maximum expanded uncertainty of correction of electrical response is 0.3 dB.

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
dB	dB	dB	+	-	dB
136.0	135.0	135.0	1.0	1.0	0.0

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
dB	dB	dB	+	-	dB
136.0	131.9	131.9	1.0	1.0	0.0

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the

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SMECLab

Sound level meter type:	2250-L	Serial No.	2722311	Date	12-May-2022
Microphone type:	4950	Serial No.	2698703		
Preamp type:	ZC0032	Serial No.	13318	Report:	22CA0511 01

10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting C, set the generator signal to single, Lcpeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	137.6	2.0	-1.4

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	137.6	2.0	-1.4

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz
Amplitude: 2 dB below the upper limit of the primary indicator range.
Burst repetition frequency: 40 Hz
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time wighting	dB	dB	indication(dB)	+/- dB	dB
Slow	118.0+6.6	118.0	117.9	0.5	-0.1

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)
Test frequency: 2000 Hz
Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	131.2	131.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	137.3	137.2	1.0	-0.1

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz
Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	110.0	110.0	109.9	1.0	-0.1	60s integ.
10000	100.0	100.0	99.9	1.0	-0.1	6min. integ.

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SMECLab

Sound level meter type:	2250-L	Serial No.	2722311	Date	12-May-2022
Microphone type:	4950	Serial No.	2698703		
Preamp type:	ZC0032	Serial No.	13318	Report:	22CA0511 01

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	110.0	80.0	80.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	110.0	90.0	90.0	1.7	0.0

OVERLOAD INDICATION TEST

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz
Amplitude: 2 dB below the upper limit of the primary indicator range.
Burst repetition frequency: 40 Hz
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
135.4	134.4	131.4	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:
The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz
Integration time: 10 sec
Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
142.2	141.2	101.2	101.2	2.2	0.0

ACOUSTIC TEST

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level	Tolerance (dB)		Deviation
Hz	dB	Measured (dB)	+	-	dB
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	77.9	1.0	1.0	0.0
8000	92.9	93.6	1.5	3.0	0.7

----------END---------

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CERTIFICATE OF CALIBRATION

Certificate No.: 22CA1101 02-02 **Page:** 1 **of** 2

Item tested

Description:	Acoustical Calibrator (Class 1)
Manufacturer:	Larson Davis
Type/Model No.:	CAL200
Serial/Equipment No.:	13437
Adaptors used:	-

Item submitted by

Curstomer:	Lam Environmental Services Ltd.
Address of Customer:	-
Request No.:	-
Date of receipt:	01-Nov-2022

Date of test: 04-Nov-2022

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	23-May-2023	SCL
Preamplifier	B&K 2673	2743150	28-Jun-2023	CEPREI
Measuring amplifier	B&K 2610	2346941	30-Jun-2023	CEPREI
Signal generator	DS 360	33873	21-Jan-2023	CEPREI
Digital multi-meter	34401A	US36087050	30-May-2023	CEPREI
Audio analyzer	8903B	GB41300350	06-Jul-2023	CEPREI
Universal counter	53132A	MY40003662	13-Jun-2023	CEPREI

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1005 ± 5 hPa

Test specifications

1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.

2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.

3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on **page 2** of this certificate.

Approved Signatory: Feng Junqi **Date:** 05-Nov-2022 **Company Chop:** SOILS AND MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

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HKAS has accredited this laboratory (Reg. No. HOKLAS 028) under HOKLAS for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this certificate are traceable to the International System of Units (SI) or recognised measurement standards. The results relate only to the item(s) calibrated. This certificate shall not be reproduced except in full without approval of the laboratory.

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
香港新界葵涌永基路22-24號好爸爸創科大廈
Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 22CA1101 02-02 **Page:** 2 of 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

(Output level in dB re 20 μPa)

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.76	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz **STF = 0.011 dB**

Estimated expanded uncertainty 0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz **Actual Frequency = 1000.0 Hz**

Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz **TND = 0.7%**

Estimated expanded uncertainty 0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by: Fung Chi Yip **Checked by:** Chan Yuk Yiu

Date: 04-Nov-2022 **Date:** 05-Nov-2022

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Lam Environmental Services Limite

Wind Station Performance Check Record

Type : Weather Station

Manufacturer : 武汉辰云科技有限公司

Model Number : YGY-FSXY1

Serial Number : YG 21071630T0924

Performance Check Date : 30-Sep-2022

Performance Check Results

Wind Speed Range (m/s)	Reading Value (V1, m/s)	Anemometer Value (V2, m/s)	Difference (V1 - V2, m/s)
Zero Check	0.0	0.0	0.0
1 - 2	2.0	2.1	-0.1
3 - 4	3.4	3.2	0.2
5 - 6	5.7	5.6	0.1
7 - 8	7.9	8.2	-0.3

Wind Direction (^{o})	Reading Value (W1, ^{o})	Compass Value (W2, ^{o})	Difference (W1 - W2, ^{o})
0	-1	0	-1
90	90	90	0
180	178	180	-2
270	272	270	2

Test Reference:
1. Wind Speed Check - Speed reading checked on-site against anemometer logged value.
2. Wind Direction Check - Direction reading checked on on-site against compass marked reading.

Conducted by: William Cheung

Checked by: Raymond Dai

ALS Technichem (HK) Pty Ltd
11/F., Chung Shun Knitting Centre,
1 - 3 Wing Yip Street,
Kwai Chung, N.T., Hong Kong
T: +852 2610 1044
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www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	DEREK LO	**WORK ORDER:**	HK2303761
CLIENT:	LAM ENVIRONMENTAL SERVICES LTD		
ADDRESS:	19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	**SUB-BATCH:**	0
		LABORATORY:	HONG KONG
		DATE RECEIVED:	31-Jan-2023
		DATE OF ISSUE:	09-Feb-2023

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.
The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type:	Multifunctional Meter
Service Nature:	Performance Check
Scope:	Dissolved Oxygen, pH Value, Salinity and Temperature
Brand Name/ Model No.:	[YSI]/ [Professional Plus]
Serial No./ Equipment No.:	[19H100656/14E101065]/ [N/A]
Date of Calibration:	08-February-2023

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

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right solutions. right partner.

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2303761

SUB-BATCH: 0
DATE OF ISSUE: 09-Feb-2023
CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [YSI]/ [Professional Plus]
Serial No./ Equipment No.: [19H100656/14E101065]/ [N/A]
Date of Calibration: 08-February-2023 Date of Next Calibration: 08-May-2023

PARAMETERS:

Dissolved Oxygen **Method Ref: APHA (23rd edition), 4500O: G**

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.79	2.61	-0.18
5.24	5.34	+0.10
7.60	7.65	+0.05
	Tolerance Limit (mg/L)	±0.20

pH Value **Method Ref: APHA (23rd edition), 4500H: B**

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.91	-0.09
7.0	7.02	+0.02
10.0	9.90	-0.10
	Tolerance Limit (pH unit)	±0.20

Salinity **Method Ref: APHA (23rd edition), 2520B**

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	--
10	9.58	-4.2
20	19.84	-0.8
30	29.16	-2.8
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2303761

SUB-BATCH: 0
DATE OF ISSUE: 09-Feb-2023
CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [YSI]/ [Professional Plus]
Serial No./ Equipment No.: [19H100656/14E101065]/ [N/A]
Date of Calibration: 08-February-2023 Date of Next Calibration: 08-May-2023

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
11.5	10.9	-0.6
22.0	21.2	-0.8
38.0	37.3	-0.7
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

FT Laboratories Ltd
科達測檢試驗所有限公司

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT:	**MR. DEREK LO**	**JOB REFERENCE NO.:**	**22777053-M15C3701**
CLIENT:	**LAM ENVIRONMENTAL SERVICES LTD.**		
DATE RECEIVED:	**15/12/2022**		
DATE OF ISSUE:	**21/12/2022**		
ADDRESS:	**19/F, REMAX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG**		
PROJECT:	---		

METHOD OF PERFORMANCE CHECK/ CALIBRATION:
Ref: APHA22nd ed 2130B

COMMENTS
It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of FT Laboratories Ltd will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	2202020
Equipment No.:	---
Date of Calibration:	21/12/2022

Remarks:
This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Certified By: Rowena R De Jesus
Senior Chemist

Issue Date: 21/12/2022

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Address: Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, N.T., H.K.
Tel: 27584861, Fax: 27588962

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: 22777053-M15C3701
DATE OF ISSUE: 21/12/2022
CLIENT: LAM ENVIRONMENTAL SERVICES LTD.

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	2202020
Equipment No.:	---
Date of Calibration:	21/12/2022
Date of next Calibation:	23/03/2023
Lab I.D.:	H220058-01

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	3.99	-0.2%
10	9.99	-0.1%
40	39.99	0.0%
100	99.85	-0.2%
400	400	0.0%
1000	1002	0.2%
	Tolerance Limit (±)	10%

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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Tel: 27584861, Fax: 27588962

FT Laboratories Ltd
科達測檢試驗所有限公司

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT:	**MR. DEREK LO**	**JOB REFERENCE NO.:**	**22777053-C03D3701**
CLIENT:	**LAM ENVIRONMENTAL SERVICES LTD.**		
DATE RECEIVED:	**03/03/2023**		
DATE OF ISSUE:	**13/03/2023**		
ADDRESS:	**19/F, REMAX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG**		
PROJECT:	**---**		

METHOD OF PERFORMANCE CHECK/ CALIBRATION:
Ref: APHA22nd ed 2130B

COMMENTS
It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of FT Laboratories Ltd will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1807073
Equipment No.:	---
Date of Calibration:	10/03/2023

Remarks:
This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Certified By: _____ Issue Date: 13/03/2023
WONG Chi Wai Sanio
Senior Chemist

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Address: Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, N.T., H.K.
Tel: 27584861, Fax: 27588962

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: 22777053-C03D3701
DATE OF ISSUE: 13/03/2023
CLIENT: LAM ENVIRONMENTAL SERVICES LTD.

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1807073
Equipment No.:	---
Date of Calibration:	10/03/2023
Date of next Calibation:	10/06/2023
Lab I.D.:	H230010-01

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	4.00	0.0%
10	9.98	-0.2%
40	40.00	0.0%
100	98.86	-1.1%
400	400	0.0%
1000	994	-0.6%
	Tolerance Limit (±)	10%

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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Appendix 4.3

Wind Data

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
1-Mar-23	00:00	2.7	110(ESE)
	01:00	2.1	80(E)
	02:00	0.9	125(SE)
	03:00	0.9	124(SE)
	04:00	0.9	85(E)
	05:00	1.1	82(E)
	06:00	0.9	114(ESE)
	07:00	0.9	80(E)
	08:00	0.0	141(SE)
	09:00	0.0	251(WSW)
	10:00	1.3	142(SE)
	11:00	1.3	292(WNW)
	12:00	2.7	31(NNE)
	13:00	2.1	229(SW)
	14:00	1.9	121(ESE)
	15:00	1.7	286(WNW)
	16:00	1.9	292(WNW)
	17:00	2.7	283(WNW)
	18:00	1.5	254(WSW)
	19:00	0.7	112(ESE)
	20:00	0.7	120(ESE)
	21:00	0.0	260(W)
	22:00	0.0	264(W)
	23:00	0.5	189(S)
2-Mar-23	00:00	0.0	271(W)
	01:00	0.0	274(W)
	02:00	0.5	154(SSE)
	03:00	0.0	278(W)
	04:00	0.7	30(NNE)
	05:00	0.5	157(SSE)
	06:00	1.9	82(E)
	07:00	1.5	101(E)
	08:00	1.3	187(S)
	09:00	2.9	139(SE)
	10:00	1.5	111(ESE)
	11:00	2.7	82(E)
	12:00	1.9	42(NE)
	13:00	0.7	333(NNW)
	14:00	3.9	171(S)
	15:00	1.7	150(SSE)
	16:00	3.7	115(ESE)
	17:00	2.9	135(SE)
	18:00	1.5	191(S)
	19:00	2.5	110(ESE)
	20:00	3.5	135(SE)
	21:00	2.5	81(E)
	22:00	3.3	141(SE)
	23:00	4.1	120(ESE)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
3-Mar-23	00:00	6.5	87(E)
	01:00	3.1	137(SE)
	02:00	1.3	151(SSE)
	03:00	1.1	93(E)
	04:00	1.1	254(WSW)
	05:00	1.9	85(E)
	06:00	2.9	82(E)
	07:00	4.5	112(ESE)
	08:00	2.7	93(E)
	09:00	1.9	155(SSE)
	10:00	2.3	136(SE)
	11:00	2.5	54(NE)
	12:00	4.3	143(SE)
	13:00	2.3	210(SSW)
	14:00	1.3	113(ESE)
	15:00	1.7	356(N)
	16:00	1.1	258(WSW)
	17:00	1.9	111(ESE)
	18:00	2.1	97(E)
	19:00	0.9	149(SSE)
	20:00	1.5	54(NE)
	21:00	1.9	91(E)
	22:00	1.3	108(ESE)
	23:00	2.1	110(ESE)
4-Mar-23	00:00	1.9	60(ENE)
	01:00	1.7	108(ESE)
	02:00	2.3	74(ENE)
	03:00	1.3	174(S)
	04:00	2.1	125(SE)
	05:00	2.5	100(E)
	06:00	2.3	83(E)
	07:00	2.1	124(SE)
	08:00	2.1	122(ESE)
	09:00	1.1	80(E)
	10:00	0.9	355(N)
	11:00	1.3	24(NNE)
	12:00	2.1	92(E)
	13:00	1.5	136(SE)
	14:00	1.3	140(SE)
	15:00	1.1	268(W)
	16:00	2.9	165(SSE)
	17:00	2.9	89(E)
	18:00	2.1	161(SSE)
	19:00	1.9	93(E)
	20:00	1.9	102(ESE)
	21:00	0.9	97(E)
	22:00	1.9	71(ENE)
	23:00	1.9	111(ESE)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
5-Mar-23	00:00	1.7	75(ENE)
	01:00	1.9	59(ENE)
	02:00	1.7	90(E)
	03:00	1.3	31(NNE)
	04:00	1.7	85(E)
	05:00	1.3	71(ENE)
	06:00	1.1	131(SE)
	07:00	1.3	103(ESE)
	08:00	1.3	86(E)
	09:00	1.1	109(ESE)
	10:00	1.1	308(NW)
	11:00	1.7	76(ENE)
	12:00	1.1	240(WSW)
	13:00	1.1	266(W)
	14:00	1.9	125(SE)
	15:00	1.1	261(W)
	16:00	3.7	122(ESE)
	17:00	2.1	179(S)
	18:00	1.1	33(NNE)
	19:00	2.1	123(ESE)
	20:00	0.7	42(NE)
	21:00	2.3	58(ENE)
	22:00	1.3	102(ESE)
	23:00	0.5	293(WNW)
6-Mar-23	00:00	2.5	100(E)
	01:00	2.3	141(SE)
	02:00	0.5	232(SW)
	03:00	1.5	159(SSE)
	04:00	1.1	126(SE)
	05:00	0.0	66(ENE)
	06:00	0.7	79(E)
	07:00	1.3	140(SE)
	08:00	0.9	127(SE)
	09:00	2.7	110(ESE)
	10:00	1.7	115(ESE)
	11:00	3.1	111(ESE)
	12:00	5.9	189(S)
	13:00	2.7	114(ESE)
	14:00	5.5	133(SE)
	15:00	2.9	226(SW)
	16:00	2.3	179(S)
	17:00	2.7	108(ESE)
	18:00	2.1	137(SE)
	19:00	2.1	127(SE)
	20:00	0.7	191(S)
	21:00	1.3	105(ESE)
	22:00	1.7	76(ENE)
	23:00	1.9	98(E)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
7-Mar-23	00:00	0.5	345(NNW)
	01:00	0.0	42(NE)
	02:00	1.1	113(ESE)
	03:00	1.1	60(ENE)
	04:00	0.0	95(E)
	05:00	0.9	89(E)
	06:00	1.7	68(ENE)
	07:00	1.5	69(ENE)
	08:00	0.0	269(W)
	09:00	2.1	96(E)
	10:00	1.1	81(E)
	11:00	3.9	128(SE)
	12:00	3.1	119(ESE)
	13:00	0.5	162(SSE)
	14:00	1.3	60(ENE)
	15:00	3.5	101(E)
	16:00	1.7	69(ENE)
	17:00	2.3	106(ESE)
	18:00	2.3	140(SE)
	19:00	0.9	54(NE)
	20:00	1.5	67(ENE)
	21:00	1.3	102(ESE)
	22:00	0.7	100(E)
	23:00	1.3	102(ESE)
8-Mar-23	00:00	1.9	101(E)
	01:00	0.9	53(NE)
	02:00	0.0	275(W)
	03:00	0.7	306(NW)
	04:00	0.0	183(S)
	05:00	0.0	245(WSW)
	06:00	0.0	234(SW)
	07:00	0.7	21(NNE)
	08:00	0.0	226(SW)
	09:00	0.7	124(SE)
	10:00	0.9	286(WNW)
	11:00	0.0	309(NW)
	12:00	0.7	301(WNW)
	13:00	0.9	30(NNE)
	14:00	1.5	194(SSW)
	15:00	2.3	286(WNW)
	16:00	2.9	277(W)
	17:00	1.1	257(WSW)
	18:00	0.7	225(SW)
	19:00	1.3	114(ESE)
	20:00	0.0	182(S)
	21:00	0.9	120(ESE)
	22:00	2.1	122(ESE)
	23:00	0.5	281(W)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
9-Mar-23	00:00	0.0	135(SE)
	01:00	0.0	272(W)
	02:00	0.0	114(ESE)
	03:00	0.0	69(ENE)
	04:00	0.0	132(SE)
	05:00	0.0	167(SSE)
	06:00	0.0	267(W)
	07:00	0.5	67(ENE)
	08:00	0.0	278(W)
	09:00	0.5	277(W)
	10:00	0.0	252(WSW)
	11:00	1.3	279(W)
	12:00	0.7	209(SSW)
	13:00	1.9	150(SSE)
	14:00	1.7	122(ESE)
	15:00	2.1	111(ESE)
	16:00	2.9	133(SE)
	17:00	0.9	249(WSW)
	18:00	1.9	125(SE)
	19:00	1.3	96(E)
	20:00	0.5	339(NNW)
	21:00	1.9	196(SSW)
	22:00	1.5	98(E)
	23:00	1.5	101(E)
10-Mar-23	00:00	2.1	90(E)
	01:00	0.0	86(E)
	02:00	1.5	88(E)
	03:00	0.9	38(NE)
	04:00	1.3	57(ENE)
	05:00	0.7	120(ESE)
	06:00	1.3	105(ESE)
	07:00	1.3	93(E)
	08:00	1.5	109(ESE)
	09:00	0.7	141(SE)
	10:00	2.7	89(E)
	11:00	3.5	88(E)
	12:00	2.3	152(SSE)
	13:00	1.9	210(SSW)
	14:00	1.7	263(W)
	15:00	4.5	168(SSE)
	16:00	1.1	249(WSW)
	17:00	0.5	151(SSE)
	18:00	2.7	169(S)
	19:00	2.3	88(E)
	20:00	1.1	98(E)
	21:00	1.5	69(ENE)
	22:00	2.1	103(ESE)
	23:00	1.5	52(NE)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
11-Mar-23	00:00	1.3	104(ESE)
	01:00	0.0	216(SW)
	02:00	1.5	67(ENE)
	03:00	1.7	104(ESE)
	04:00	1.7	61(ENE)
	05:00	1.1	130(SE)
	06:00	0.5	109(ESE)
	07:00	0.7	147(SSE)
	08:00	0.7	222(SW)
	09:00	2.5	149(SSE)
	10:00	2.1	103(ESE)
	11:00	4.1	80(E)
	12:00	1.3	148(SSE)
	13:00	2.1	157(SSE)
	14:00	2.7	173(S)
	15:00	1.3	245(WSW)
	16:00	1.3	152(SSE)
	17:00	2.9	71(ENE)
	18:00	0.9	127(SE)
	19:00	2.1	135(SE)
	20:00	0.7	134(SE)
	21:00	1.1	63(ENE)
	22:00	1.1	56(NE)
	23:00	0.7	99(E)
12-Mar-23	00:00	1.1	309(NW)
	01:00	0.7	91(E)
	02:00	1.1	86(E)
	03:00	0.0	107(ESE)
	04:00	0.0	232(SW)
	05:00	0.9	153(SSE)
	06:00	0.0	58(ENE)
	07:00	1.5	74(ENE)
	08:00	0.7	310(NW)
	09:00	0.7	286(WNW)
	10:00	1.5	137(SE)
	11:00	0.9	322(NW)
	12:00	1.7	311(NW)
	13:00	2.5	51(NE)
	14:00	4.3	49(NE)
	15:00	1.9	143(SE)
	16:00	2.5	83(E)
	17:00	4.5	81(E)
	18:00	0.7	72(ENE)
	19:00	2.3	64(ENE)
	20:00	0.9	85(E)
	21:00	4.5	100(E)
	22:00	5.9	79(E)
	23:00	2.5	193(SSW)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
13-Mar-23	00:00	4.3	98(E)
	01:00	4.9	72(ENE)
	02:00	3.3	104(ESE)
	03:00	4.5	95(E)
	04:00	4.9	83(E)
	05:00	2.5	81(E)
	06:00	1.7	168(SSE)
	07:00	2.5	122(ESE)
	08:00	3.3	84(E)
	09:00	1.5	72(ENE)
	10:00	2.9	78(ENE)
	11:00	2.7	73(ENE)
	12:00	1.7	153(SSE)
	13:00	0.7	259(W)
	14:00	0.0	152(SSE)
	15:00	1.1	338(NNW)
	16:00	1.3	285(WNW)
	17:00	1.5	283(WNW)
	18:00	1.3	286(WNW)
	19:00	0.9	323(NW)
	20:00	2.9	98(E)
	21:00	1.1	125(SE)
	22:00	1.1	137(SE)
	23:00	1.9	106(ESE)
14-Mar-23	00:00	1.5	80(E)
	01:00	0.7	98(E)
	02:00	1.5	104(ESE)
	03:00	1.7	138(SE)
	04:00	1.5	126(SE)
	05:00	1.7	82(E)
	06:00	1.3	67(ENE)
	07:00	1.1	173(S)
	08:00	3.7	133(SE)
	09:00	1.7	74(ENE)
	10:00	2.3	143(SE)
	11:00	2.3	193(SSW)
	12:00	1.5	345(NNW)
	13:00	1.5	277(W)
	14:00	0.5	149(SSE)
	15:00	0.9	280(W)
	16:00	3.1	164(SSE)
	17:00	3.5	82(E)
	18:00	2.9	112(ESE)
	19:00	1.5	87(E)
	20:00	1.3	17(NNE)
	21:00	2.5	100(E)
	22:00	1.3	102(ESE)
	23:00	1.5	84(E)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
15-Mar-23	00:00	1.1	134(SE)
	01:00	1.5	95(E)
	02:00	1.1	76(ENE)
	03:00	0.7	116(ESE)
	04:00	1.3	86(E)
	05:00	1.5	76(ENE)
	06:00	1.9	88(E)
	07:00	0.7	199(SSW)
	08:00	3.3	115(ESE)
	09:00	3.1	80(E)
	10:00	1.5	126(SE)
	11:00	0.7	287(WNW)
	12:00	0.7	197(SSW)
	13:00	1.9	183(S)
	14:00	0.9	11(N)
	15:00	1.7	235(SW)
	16:00	2.3	314(NW)
	17:00	2.5	320(NW)
	18:00	1.3	180(S)
	19:00	0.9	193(SSW)
	20:00	1.9	84(E)
	21:00	1.5	95(E)
	22:00	0.5	144(SE)
	23:00	1.9	87(E)
16-Mar-23	00:00	1.7	64(ENE)
	01:00	1.1	103(ESE)
	02:00	0.7	154(SSE)
	03:00	0.7	130(SE)
	04:00	1.1	120(ESE)
	05:00	0.7	61(ENE)
	06:00	0.0	271(W)
	07:00	0.9	89(E)
	08:00	0.0	102(ESE)
	09:00	2.1	85(E)
	10:00	1.7	170(S)
	11:00	1.1	140(SE)
	12:00	3.9	91(E)
	13:00	3.3	110(ESE)
	14:00	3.3	125(SE)
	15:00	1.5	95(E)
	16:00	3.1	172(S)
	17:00	2.1	188(S)
	18:00	2.5	103(ESE)
	19:00	1.3	240(WSW)
	20:00	0.0	98(E)
	21:00	1.5	78(ENE)
	22:00	2.5	105(ESE)
	23:00	2.9	81(E)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
17-Mar-23	00:00	1.7	135(SE)
	01:00	2.3	66(ENE)
	02:00	2.3	138(SE)
	03:00	2.5	62(ENE)
	04:00	1.7	82(E)
	05:00	1.9	126(SE)
	06:00	3.3	126(SE)
	07:00	1.7	122(ESE)
	08:00	3.3	101(E)
	09:00	1.9	86(E)
	10:00	1.7	55(NE)
	11:00	1.1	274(W)
	12:00	0.9	156(SSE)
	13:00	3.1	188(S)
	14:00	2.1	168(SSE)
	15:00	1.5	293(WNW)
	16:00	1.1	266(W)
	17:00	2.9	163(SSE)
	18:00	0.7	170(S)
	19:00	0.9	328(NNW)
	20:00	1.7	102(ESE)
	21:00	2.3	93(E)
	22:00	1.9	74(ENE)
	23:00	1.7	87(E)
18-Mar-23	00:00	1.3	92(E)
	01:00	1.7	89(E)
	02:00	2.5	123(ESE)
	03:00	0.7	219(SW)
	04:00	0.0	224(SW)
	05:00	0.5	291(WNW)
	06:00	0.0	271(W)
	07:00	0.0	61(ENE)
	08:00	0.7	280(W)
	09:00	0.7	257(WSW)
	10:00	1.3	296(WNW)
	11:00	2.3	289(WNW)
	12:00	0.5	92(E)
	13:00	0.7	278(W)
	14:00	1.7	92(E)
	15:00	1.9	100(E)
	16:00	1.9	227(SW)
	17:00	1.9	126(SE)
	18:00	2.3	123(ESE)
	19:00	3.5	142(SE)
	20:00	1.7	116(ESE)
	21:00	2.5	168(SSE)
	22:00	5.5	95(E)
	23:00	1.5	133(SE)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
19-Mar-23	00:00	1.7	133(SE)
	01:00	2.5	84(E)
	02:00	1.9	160(SSE)
	03:00	1.1	117(ESE)
	04:00	4.3	81(E)
	05:00	2.7	132(SE)
	06:00	3.5	104(ESE)
	07:00	1.1	65(ENE)
	08:00	1.7	184(S)
	09:00	3.1	162(SSE)
	10:00	5.5	103(ESE)
	11:00	3.9	169(S)
	12:00	0.9	225(SW)
	13:00	3.9	143(SE)
	14:00	3.5	154(SSE)
	15:00	1.5	161(SSE)
	16:00	3.1	119(ESE)
	17:00	2.1	105(ESE)
	18:00	1.3	56(NE)
	19:00	2.7	70(ENE)
	20:00	0.0	315(NW)
	21:00	1.7	118(ESE)
	22:00	1.1	67(ENE)
	23:00	1.3	80(E)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
20-Mar-23	00:00	1.3	149(SSE)
	01:00	1.5	106(ESE)
	02:00	5.3	136(SE)
	03:00	2.7	105(ESE)
	04:00	1.9	88(E)
	05:00	2.3	271(W)
	06:00	2.3	115(ESE)
	07:00	2.9	90(E)
	08:00	0.7	273(W)
	09:00	2.3	133(SE)
	10:00	1.7	113(ESE)
	11:00	2.3	88(E)
	12:00	1.7	160(SSE)
	13:00	3.3	83(E)
	14:00	1.9	122(ESE)
	15:00	2.1	108(ESE)
	16:00	2.3	78(ENE)
	17:00	2.3	103(ESE)
	18:00	5.1	198(SSW)
	19:00	2.7	72(ENE)
	20:00	1.3	107(ESE)
	21:00	1.5	77(ENE)
	22:00	0.5	148(SSE)
	23:00	0.7	99(E)
21-Mar-23	00:00	0.0	184(S)
	01:00	0.0	101(E)
	02:00	0.7	148(SSE)
	03:00	0.0	147(SSE)
	04:00	0.7	91(E)
	05:00	0.9	94(E)
	06:00	0.9	76(ENE)
	07:00	1.3	40(NE)
	08:00	2.5	60(ENE)
	09:00	1.1	84(E)
	10:00	0.7	273(W)
	11:00	2.1	293(WNW)
	12:00	1.3	260(W)
	13:00	1.5	303(WNW)
	14:00	1.5	295(WNW)
	15:00	1.9	129(SE)
	16:00	1.3	294(WNW)
	17:00	1.5	269(W)
	18:00	1.1	152(SSE)
	19:00	1.1	320(NW)
	20:00	1.3	266(W)
	21:00	1.1	288(WNW)
	22:00	0.9	300(WNW)
	23:00	1.5	280(W)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
22-Mar-23	00:00	1.3	284(WNW)
	01:00	2.3	260(W)
	02:00	0.0	292(WNW)
	03:00	1.5	240(WSW)
	04:00	1.5	266(W)
	05:00	0.0	285(WNW)
	06:00	0.5	295(WNW)
	07:00	1.1	288(WNW)
	08:00	1.1	251(WSW)
	09:00	1.1	296(WNW)
	10:00	2.1	272(W)
	11:00	5.3	177(S)
	12:00	1.5	291(WNW)
	13:00	2.1	278(W)
	14:00	1.5	301(WNW)
	15:00	2.5	193(SSW)
	16:00	1.5	328(NNW)
	17:00	1.1	277(W)
	18:00	2.7	45(NE)
	19:00	2.9	164(SSE)
	20:00	1.3	262(W)
	21:00	2.1	275(W)
	22:00	0.5	127(SE)
	23:00	1.1	291(WNW)
23-Mar-23	00:00	1.7	295(WNW)
	01:00	0.9	249(WSW)
	02:00	0.9	293(WNW)
	03:00	1.5	223(SW)
	04:00	1.5	292(WNW)
	05:00	0.9	285(WNW)
	06:00	1.3	260(W)
	07:00	1.1	180(S)
	08:00	0.0	256(WSW)
	09:00	1.5	264(W)
	10:00	1.9	254(WSW)
	11:00	2.7	157(SSE)
	12:00	1.1	301(WNW)
	13:00	2.5	298(WNW)
	14:00	1.3	292(WNW)
	15:00	2.1	261(W)
	16:00	1.9	141(SE)
	17:00	1.7	287(WNW)
	18:00	1.5	303(WNW)
	19:00	0.5	265(W)
	20:00	1.1	145(SE)
	21:00	1.5	274(W)
	22:00	0.0	177(S)
	23:00	0.7	184(S)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
24-Mar-23	00:00	0.9	142(SE)
	01:00	0.0	260(W)
	02:00	0.9	101(E)
	03:00	0.0	260(W)
	04:00	1.5	80(E)
	05:00	1.7	94(E)
	06:00	0.0	224(SW)
	07:00	0.9	147(SSE)
	08:00	1.3	129(SE)
	09:00	2.9	117(ESE)
	10:00	1.3	251(WSW)
	11:00	0.7	209(SSW)
	12:00	1.9	136(SE)
	13:00	1.7	64(ENE)
	14:00	1.7	234(SW)
	15:00	2.3	212(SSW)
	16:00	0.9	300(WNW)
	17:00	0.5	60(ENE)
	18:00	1.1	102(ESE)
	19:00	1.7	159(SSE)
	20:00	2.5	125(SE)
	21:00	2.5	65(ENE)
	22:00	0.7	229(SW)
	23:00	1.9	134(SE)
25-Mar-23	00:00	0.0	180(S)
	01:00	1.9	231(SW)
	02:00	2.7	117(ESE)
	03:00	2.5	222(SW)
	04:00	1.3	112(ESE)
	05:00	0.9	186(S)
	06:00	1.1	125(SE)
	07:00	1.3	35(NE)
	08:00	1.5	86(E)
	09:00	0.9	115(ESE)
	10:00	2.9	149(SSE)
	11:00	1.3	149(SSE)
	12:00	2.7	64(ENE)
	13:00	3.9	101(E)
	14:00	2.7	102(ESE)
	15:00	1.7	88(E)
	16:00	1.5	159(SSE)
	17:00	2.1	85(E)
	18:00	3.5	82(E)
	19:00	1.1	40(NE)
	20:00	2.9	117(ESE)
	21:00	1.5	169(S)
	22:00	3.5	136(SE)
	23:00	1.5	136(SE)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
26-Mar-23	00:00	1.5	131(SE)
	01:00	3.5	94(E)
	02:00	2.5	71(ENE)
	03:00	1.7	89(E)
	04:00	1.9	62(ENE)
	05:00	1.3	81(E)
	06:00	2.1	93(E)
	07:00	2.1	60(ENE)
	08:00	1.1	86(E)
	09:00	0.0	65(ENE)
	10:00	1.5	75(ENE)
	11:00	0.0	119(ESE)
	12:00	0.0	130(SE)
	13:00	3.1	67(ENE)
	14:00	1.9	58(ENE)
	15:00	1.9	84(E)
	16:00	1.5	101(E)
	17:00	2.1	119(ESE)
	18:00	1.5	21(NNE)
	19:00	1.5	108(ESE)
	20:00	1.1	116(ESE)
	21:00	1.1	97(E)
	22:00	2.9	47(NE)
	23:00	1.1	77(ENE)
27-Mar-23	00:00	1.7	90(E)
	01:00	0.7	48(NE)
	02:00	2.9	77(ENE)
	03:00	0.9	113(ESE)
	04:00	1.9	93(E)
	05:00	2.3	88(E)
	06:00	3.1	103(ESE)
	07:00	2.5	92(E)
	08:00	1.9	116(ESE)
	09:00	2.3	37(NE)
	10:00	2.5	154(SSE)
	11:00	2.5	83(E)
	12:00	1.7	100(E)
	13:00	2.9	110(ESE)
	14:00	2.7	113(ESE)
	15:00	0.9	174(S)
	16:00	1.5	58(ENE)
	17:00	1.3	141(SE)
	18:00	1.9	83(E)
	19:00	2.7	67(ENE)
	20:00	0.5	302(WNW)
	21:00	1.5	48(NE)
	22:00	2.1	67(ENE)
	23:00	1.7	58(ENE)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
28-Mar-23	00:00	0.9	67(ENE)
	01:00	1.3	63(ENE)
	02:00	1.5	100(E)
	03:00	2.3	66(ENE)
	04:00	1.3	57(ENE)
	05:00	0.5	82(E)
	06:00	1.1	130(SE)
	07:00	1.1	112(ESE)
	08:00	0.9	58(ENE)
	09:00	2.1	91(E)
	10:00	1.9	77(ENE)
	11:00	1.7	114(ESE)
	12:00	3.3	132(SE)
	13:00	2.5	92(E)
	14:00	1.5	112(ESE)
	15:00	2.1	117(ESE)
	16:00	2.1	95(E)
	17:00	0.9	22(NNE)
	18:00	1.1	86(E)
	19:00	0.9	57(ENE)
	20:00	2.1	70(ENE)
	21:00	1.5	70(ENE)
	22:00	1.1	69(ENE)
	23:00	1.1	60(ENE)
29-Mar-23	00:00	3.9	87(E)
	01:00	1.9	114(ESE)
	02:00	4.5	79(E)
	03:00	3.7	91(E)
	04:00	1.5	103(ESE)
	05:00	1.9	142(SE)
	06:00	3.7	74(ENE)
	07:00	1.9	200(SSW)
	08:00	1.5	128(SE)
	09:00	3.9	102(ESE)
	10:00	4.1	145(SE)
	11:00	2.9	121(ESE)
	12:00	1.7	208(SSW)
	13:00	1.1	33(NNE)
	14:00	1.7	38(NE)
	15:00	1.1	118(ESE)
	16:00	0.5	314(NW)
	17:00	1.1	197(SSW)
	18:00	1.9	192(SSW)
	19:00	1.9	100(E)
	20:00	0.9	84(E)
	21:00	0.9	160(SSE)
	22:00	1.1	108(ESE)
	23:00	0.0	252(WSW)

Wind Speed and Wind Direction

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
30-Mar-23	00:00	1.3	123(ESE)
	01:00	0.7	66(ENE)
	02:00	1.7	67(ENE)
	03:00	1.1	20(NNE)
	04:00	0.5	158(SSE)
	05:00	0.9	127(SE)
	06:00	2.7	94(E)
	07:00	2.5	80(E)
	08:00	2.3	92(E)
	09:00	1.7	108(ESE)
	10:00	0.7	249(WSW)
	11:00	2.5	108(ESE)
	12:00	2.1	40(NE)
	13:00	1.1	228(SW)
	14:00	0.0	263(W)
	15:00	3.3	123(ESE)
	16:00	0.9	74(ENE)
	17:00	0.5	210(SSW)
	18:00	1.9	68(ENE)
	19:00	1.7	103(ESE)
	20:00	1.5	114(ESE)
	21:00	2.1	134(SE)
	22:00	1.3	37(NE)
	23:00	2.1	113(ESE)
31-Mar-23	00:00	1.5	87(E)
	01:00	2.1	154(SSE)
	02:00	1.1	73(ENE)
	03:00	2.3	97(E)
	04:00	1.7	31(NNE)
	05:00	1.9	116(ESE)
	06:00	1.7	107(ESE)
	07:00	1.3	123(ESE)
	08:00	2.3	117(ESE)
	09:00	0.9	109(ESE)
	10:00	2.5	164(SSE)
	11:00	4.1	98(E)
	12:00	2.3	77(ENE)
	13:00	1.7	125(SE)
	14:00	1.9	59(ENE)
	15:00	3.3	79(E)
	16:00	0.7	247(WSW)
	17:00	3.5	87(E)
	18:00	1.3	141(SE)
	19:00	2.3	96(E)
	20:00	2.1	120(ESE)
	21:00	2.9	106(ESE)
	22:00	1.9	25(NNE)
	23:00	2.3	156(SSE)

Appendix 5.1

Monitoring Schedule for Reporting Month and Next Reporting Month

Contract No. SPW 12/2021
Environmental Team (2021-2024)
for Shek Wui Effluent Polishing Plant - Main Works
Impact Monitoring Schedule
Mar 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Mar Ecological Monitoring Water Quality Monitoring	2-Mar AQM+24hr TSP	3-Mar AQM + 1hr TSP NM Water Quality Monitoring	4-Mar
5-Mar	6-Mar Water Quality Monitoring	7-Mar Ecological Monitoring	8-Mar AQM+24hr TSP Water Quality Monitoring	9-Mar AQM + 1hr TSP NM	10-Mar Water Quality Monitoring	11-Mar
12-Mar	13-Mar Water Quality Monitoring	14-Mar AQM+24hr TSP Ecological Monitoring	15-Mar AQM + 1hr TSP NM Water Quality Monitoring	16-Mar	17-Mar Water Quality Monitoring	18-Mar
19-Mar	20-Mar AQM+24hr TSP Water Quality Monitoring	21-Mar AQM + 1hr TSP	22-Mar Ecological Monitoring Water Quality Monitoring	23-Mar	24-Mar Water Quality Monitoring	25-Mar AQM+24hr TSP
26-Mar	27-Mar AQM + 1hr TSP NM Water Quality Monitoring	28-Mar	29-Mar Ecological Monitoring Water Quality Monitoring	30-Mar	31-Mar AQM+24hr TSP Water Quality Monitoring	

Remarks
- AQM: Air Quality Monitoring
- NM: Noise Monitoring, the monitoring dates are tentative and subject to change
- Ecological Monitoring dates are tentative and subject to change based on real-time tide.

Contract No. SPW 12/2021
Environmental Team (2021-2024)
for Shek Wui Effluent Polishing Plant - Main Works
Tentative Impact Monitoring Schedule
Apr 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Apr AQM + 1hr TSP
2-Apr	3-Apr Water Quality Monitoring	4-Apr	5-Apr	6-Apr AQM+24hr TSP AQM + 1hr TSP NM Water Quality Monitoring Ecological Monitoring	7-Apr	8-Apr
9-Apr	10-Apr	11-Apr AQM + 1hr TSP NM	12-Apr AQM+24hr TSP Water Quality Monitoring	13-Apr AQM + 1hr TSP Ecological Monitoring	14-Apr Water Quality Monitoring	15-Apr
16-Apr	17-Apr AQM+24hr TSP Water Quality Monitoring	18-Apr AQM + 1hr TSP NM	19-Apr Water Quality Monitoring	20-Apr Ecological Monitoring	21-Apr Water Quality Monitoring	22-Apr AQM+24hr TSP
23-Apr	24-Apr AQM + 1hr TSP NM Water Quality Monitoring Ecological Monitoring	25-Apr	26-Apr Water Quality Monitoring	27-Apr	28-Apr AQM+24hr TSP Water Quality Monitoring	29-Apr AQM + 1hr TSP
30-Apr						

Remarks
- AQM: Air Quality Monitoring
- NM: Noise Monitoring, the monitoring dates are tentative and subject to change
- Ecological Monitoring dates are tentative and subject to change based on real-time tide.
- No outfall work was conducted during Ching Ming Festival and Easter Holiday, the related WQM monitoring was cancelled.

Contract No. SPW 12/2021
Environmental Team (2021-2024)
for Shek Wui Effluent Polishing Plant - Main Works
Tentative Impact Monitoring Schedule
May 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-May	2-May	3-May AQM+24hr TSP	4-May AQM + 1hr TSP NM Ecological Monitoring	5-May	6-May
7-May	8-May	9-May AQM+24hr TSP	10-May AQM + 1hr TSP NM Ecological Monitoring	11-May	12-May	13-May
14-May	15-May AQM+24hr TSP	16-May AQM + 1hr TSP NM	17-May Ecological Monitoring	18-May	19-May	20-May AQM+24hr TSP
21-May	22-May AQM + 1hr TSP NM	23-May	24-May	25-May AQM+24hr TSP Ecological Monitoring	26-May	27-May AQM + 1hr TSP
28-May	29-May	30-May	31-May AQM+24hr TSP			

Remarks
- AQM: Air Quality Monitoring
- NM: Noise Monitoring, the monitoring dates are tentative and subject to change
- Ecological Monitoring dates are tentative and subject to change based on real-time tide.
- According to information from the ER and Contractor, the Outfall works will be completed at end of April 2023 tentatively, so the water quality monitoring is proposed to suspend since May 2023.

Appendix 5.2

Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result

Location: NM1 - G/F, Wai Loi Tsuen

Date	Time	Weather	Wind Speed (m/s)	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
				Leq	L10	L90	Leq	Leq	Leq
				Unit: dB(A), (30min)					
03/03/2023	11:30	Sunny	0.0	58.2	59.7	55.1	63.4	58.2	75
09/03/2023	8:45	Sunny	0.0	61.9	62.9	56.5	63.4	61.9	75
15/03/2023	8:35	Cloudy	0.0	62.0	64.3	53.0	63.4	62.0	75
21/03/2023	9:00	Cloudy	0.0	56.8	58.3	54.5	63.4	56.8	75
27/03/2023	11:30	Cloudy	0.0	56.8	58.8	51.3	63.4	56.8	75

Location: NM2 - G/F, Fu Tei Au

Date	Time	Weather	Wind Speed (m/s)	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
				Leq	L10	L90	Leq	Leq	Leq
				Unit: dB(A), (30-min)					
03/03/2023	9:15	Sunny	0.0	66.7	68.5	63.1	58.0	66.1	75
09/03/2023	13:50	Sunny	0.0	71.7	72.4	57.1	58.0	71.5	75
15/03/2023	9:15	Cloudy	0.0	66.3	69.0	61.3	58.0	65.6	75
21/03/2023	11:30	Cloudy	0.0	54.7	57.3	48.5	58.0	54.7	75
27/03/2023	9:30	Cloudy	4.3	61.5	63.3	57.3	58.0	58.9	75

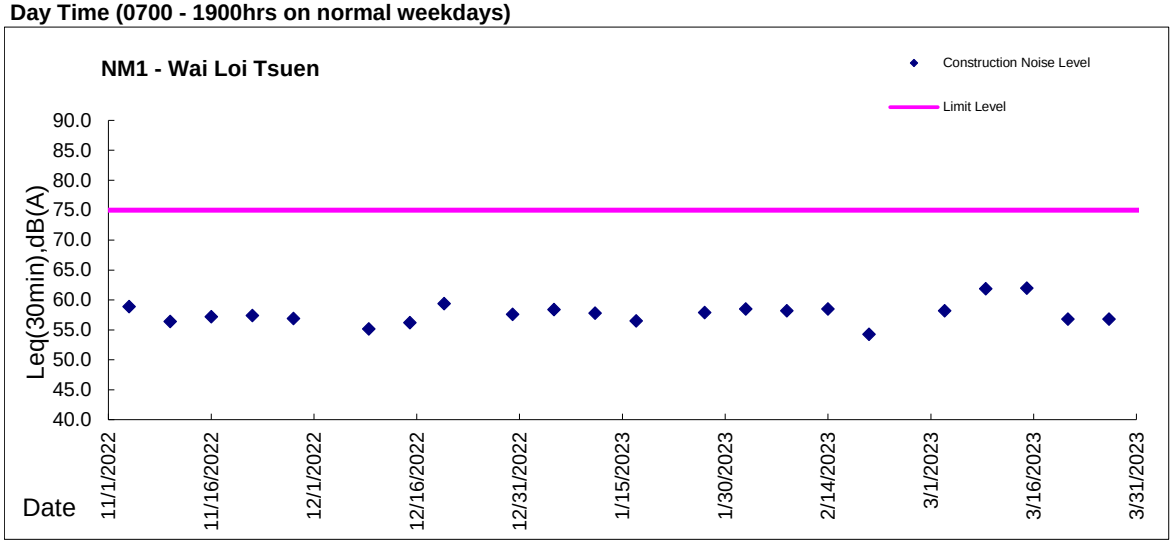
Location: NM3 - G/F, Man kok Village

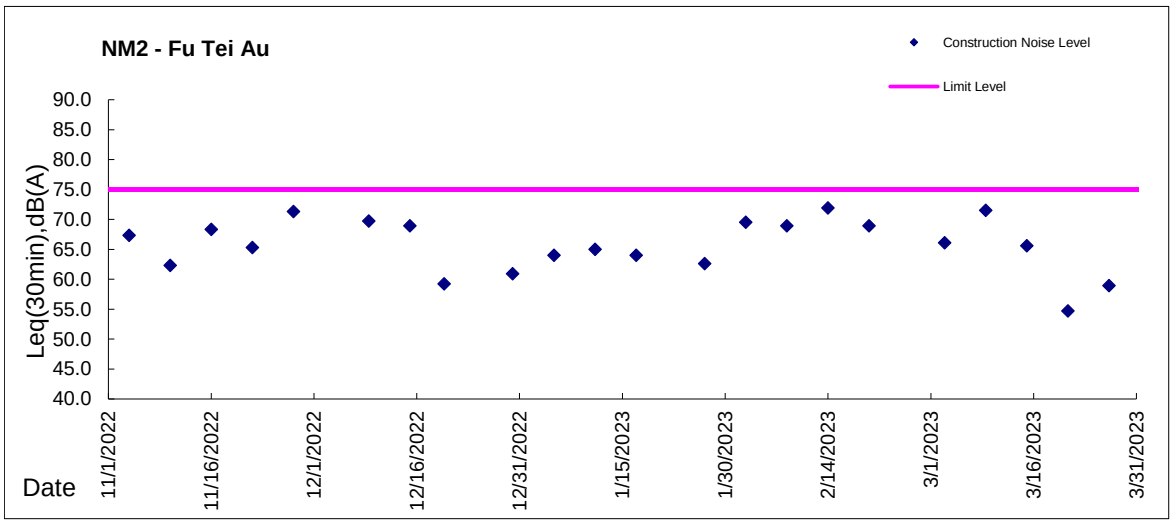
Date	Time	Weather	Wind Speed (m/s)	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
				Leq	L10	L90	Leq	Leq	Leq
				Unit: dB(A), (30min)					
03/03/2023	10:40	Sunny	0.0	59.2	62.1	51.4	63.4	59.2	75
09/03/2023	13:10	Sunny	0.0	65.4	68.7	58.6	63.4	61.1	75
15/03/2023	11:15	Cloudy	0.0	60.6	62.7	52.0	63.4	60.6	75
21/03/2023	10:20	Cloudy	0.0	62.1	63.8	53.5	63.4	62.1	75
27/03/2023	10:30	Cloudy	0.0	59.1	61.8	54.4	63.4	59.1	75

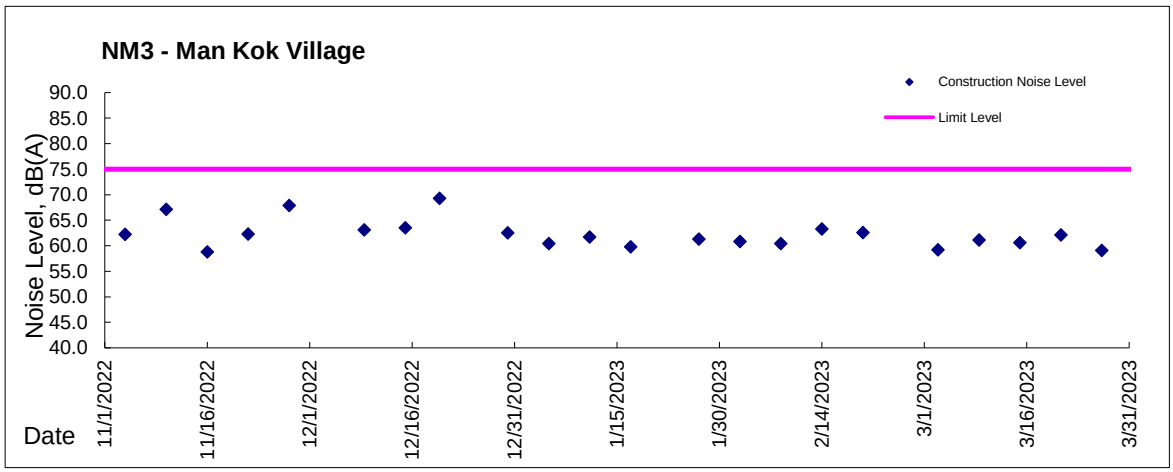
* Free field correction (Additional 3dB(A)) was made on NM1, NM2, and NM3 measurement result

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)







Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations

Report on 1-hour TSP monitoring at AM1 - Wai Loi Tsuen
Action Level (µg/m3) - 320
Limit Level (µg/m3) - 500

Date	Weather Condition	Time	Mass Concentration (µg/m3)	Model No.	Serial No.
3-Mar-23	Sunny	8:42	42	AEROCET 831	C15622
3-Mar-23	Sunny	9:43	39		
3-Mar-23	Sunny	10:44	39		
9-Mar-23	Sunny	7:58	36		
9-Mar-23	Sunny	8:59	37		
9-Mar-23	Sunny	10:00	50		
15-Mar-23	Cloudy	9:03	54		
15-Mar-23	Cloudy	10:03	43		
15-Mar-23	Cloudy	11:04	41		
21-Mar-23	Cloudy	8:34	37		
21-Mar-23	Cloudy	9:35	20		
21-Mar-23	Cloudy	10:36	14		
27-Mar-23	Drizzle	8:39	17		
27-Mar-23	Drizzle	9:40	14		
27-Mar-23	Drizzle	10:41	12		

Report on 1-hour TSP monitoring at AM2 - Fu Tei Au

Action Level (µg/m3) - 322
Limit Level (µg/m3) - 500

Date	Weather Condition	Time	Mass Concentration (µg/m3)	Model No.	Serial No.
3-Mar-23	Sunny	9:16	48	AEROCET 831	Y23153
3-Mar-23	Sunny	10:17	45		
3-Mar-23	Sunny	11:18	42		
9-Mar-23	Sunny	8:26	44		
9-Mar-23	Sunny	9:27	49		
9-Mar-23	Sunny	10:28	60		
15-Mar-23	Cloudy	8:55	30		
15-Mar-23	Cloudy	9:57	25		
15-Mar-23	Cloudy	10:58	25		
21-Mar-23	Cloudy	9:31	35		
21-Mar-23	Cloudy	10:32	42		
21-Mar-23	Cloudy	11:33	22		
27-Mar-23	Drizzle	9:07	25		
27-Mar-23	Drizzle	10:08	28		
27-Mar-23	Drizzle	11:09	34		

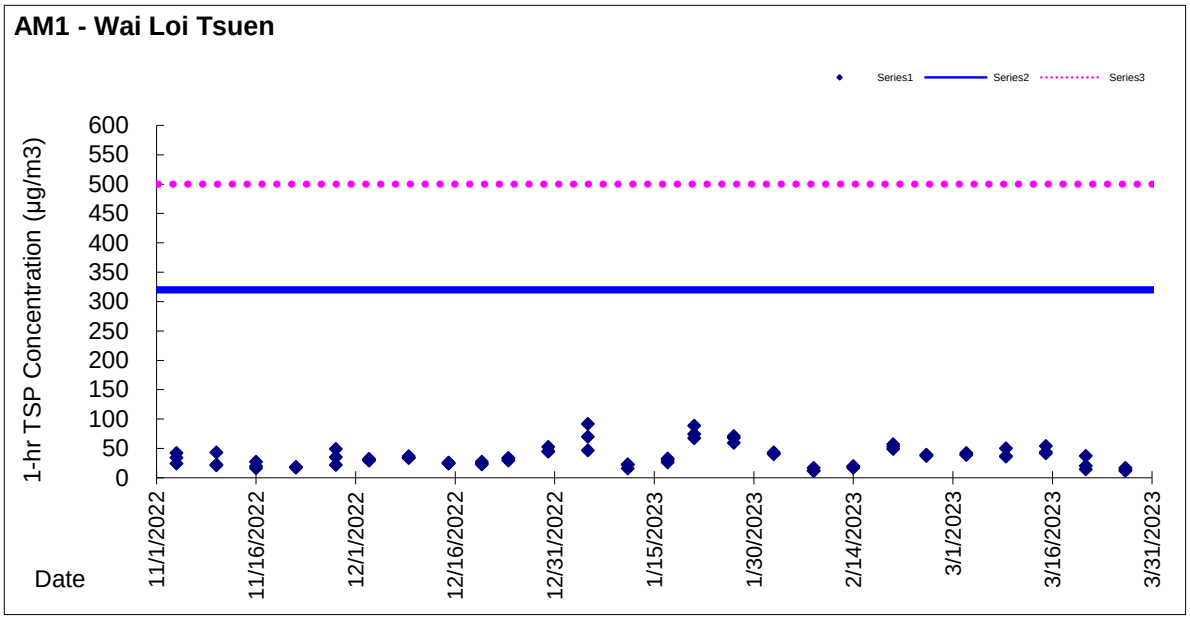
Location: AM1a* - Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW
Impact Monitoring Result on 24-hour TSP monitoring

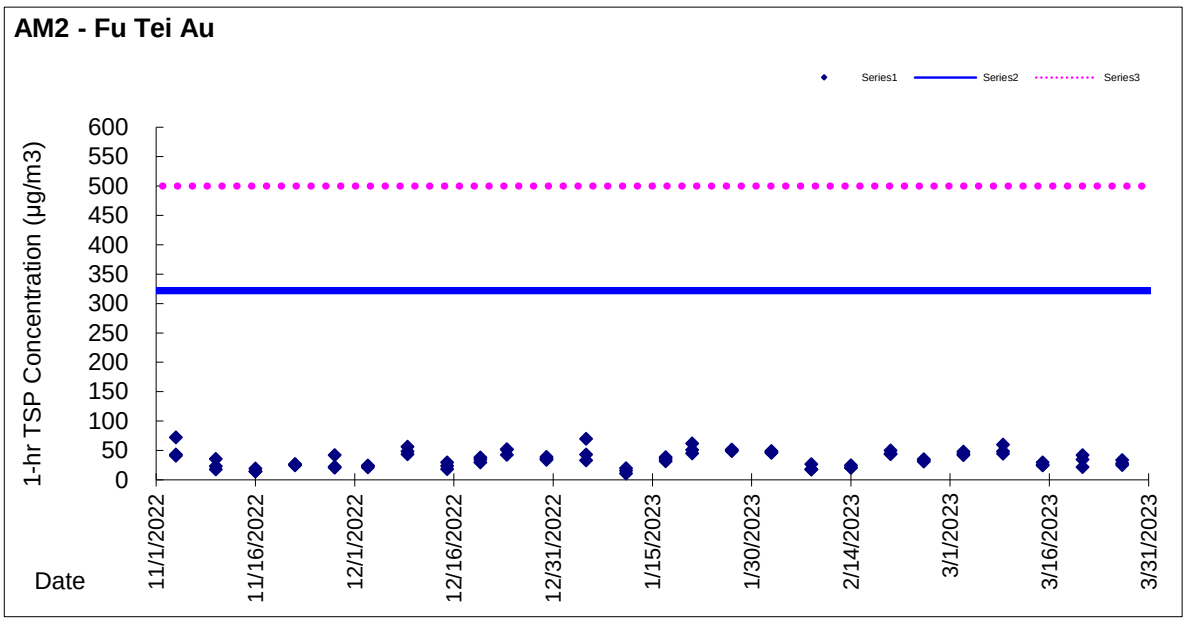
Date	Sampling Time	Weather Condition	Pressure, hPa		Temp. , °C		Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, ug/m^3	Model No.	Serial No.
			Initial	Final	Initial	Final		Initial	Final	Initial	Final		Initial, Qsi	Final, Qsf	Average				
02-Mar-23	8:00	Sunny	1023.8	1024.9	19.8	18.6	AM1a_24hr_011146	2.7767	2.9631	16211.89	16235.89	24.00	1.20	1.21	1.20	1734	107	G3101	0401-1105
08-Mar-23	8:00	Sunny	1019.7	1017.7	21.6	22.5	AM1a_24hr_011147	2.7762	2.9484	16259.89	16283.89	24.00	1.24	1.26	1.25	1806	95		
14-Mar-23	8:00	Fine	1016.8	1017.4	19.7	21.0	AM1a_24hr_011149	2.7691	2.9728	16283.89	16307.89	24.00	1.20	1.22	1.21	1744	117		
20-Mar-23	8:00	Cloudy	1012.0	1009.2	21.8	23.7	AM1a_24hr_011143	2.7867	2.8527	16307.89	16331.89	24.00	1.24	1.24	1.24	1783	37		
25-Mar-23	8:00	Cloudy	1013.1	1014.0	23.4	20.8	AM1a_24hr_011153	2.7870	2.8255	16331.89	16355.89	24.00	1.24	1.24	1.24	1786	22		
31-Mar-23	8:00	Cloudy	1013.3	1012.7	20.3	20.3	AM1a_24hr_011144	2.7869	2.8224	16355.89	16379.89	24.00	1.49	1.49	1.49	2142	17		

Location: AM2a - Site Boundary of the Shek Wu Hui STW (North)
Impact Monitoring Result on 24-hour TSP monitoring

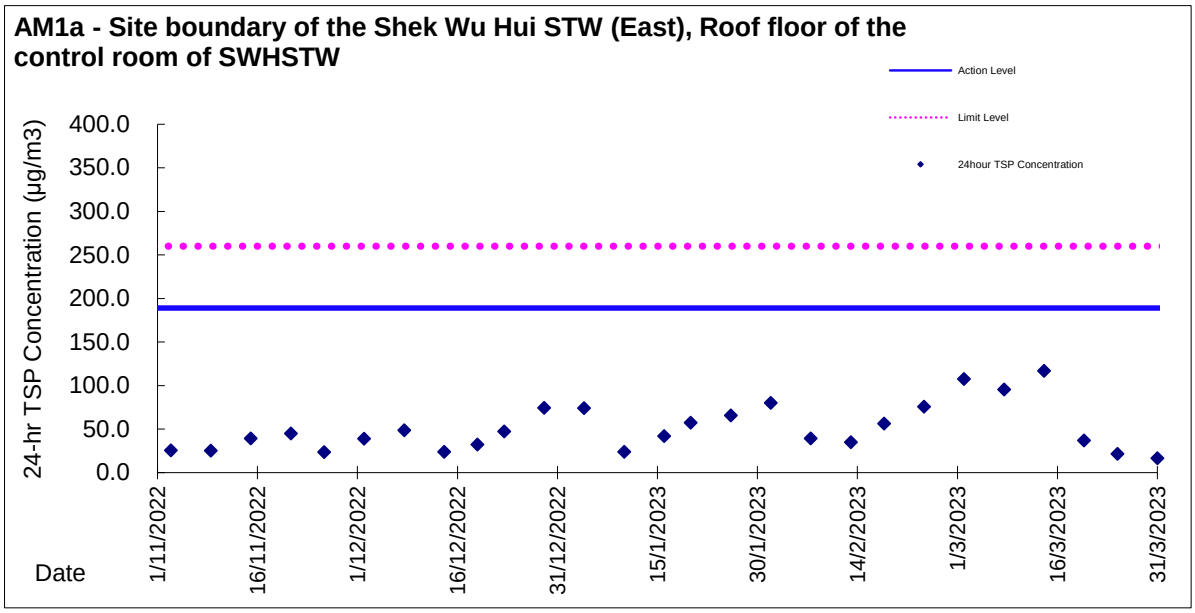
Date	Sampling Time	Weather Condition	Pressure, hPa		Temp. , °C		Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, ug/m^3	Model No.	Serial No.
			Initial	Final	Initial	Final		Initial	Final	Initial	Final		Initial, Qsi	Final, Qsf	Average				
02-Mar-23	8:00	Sunny	1023.8	1024.9	19.8	18.6	AM2a_24hr_011112	2.7739	2.9494	18923.53	18947.53	24.00	1.27	1.25	1.26	1808	97	G3101	1096-2305
08-Mar-23	8:00	Sunny	1019.7	1017.7	21.6	22.5	AM2a_24hr_011148	2.7801	2.8112	18947.53	18971.53	24.00	1.54	1.54	1.54	2216	14		
14-Mar-23	8:00	Fine	1016.8	1017.4	19.7	21.0	AM2a_24hr_011150	2.7534	2.9617	18923.53	18947.53	24.00	1.50	1.49	1.49	2152	97		
20-Mar-23	8:00	Cloudy	1012.0	1009.2	21.8	23.7	AM2a_24hr_011139	2.7879	2.8846	18947.53	18971.53	24.00	1.49	1.49	1.49	2143	45		
25-Mar-23	8:00	Cloudy	1013.1	1014.0	23.4	20.8	AM2a_24hr_011154	2.7875	2.8391	18923.53	18947.53	24.00	1.44	1.45	1.44	2080	25		
31-Mar-23	24hr-TSP monitoring was suspended due to power failure																		

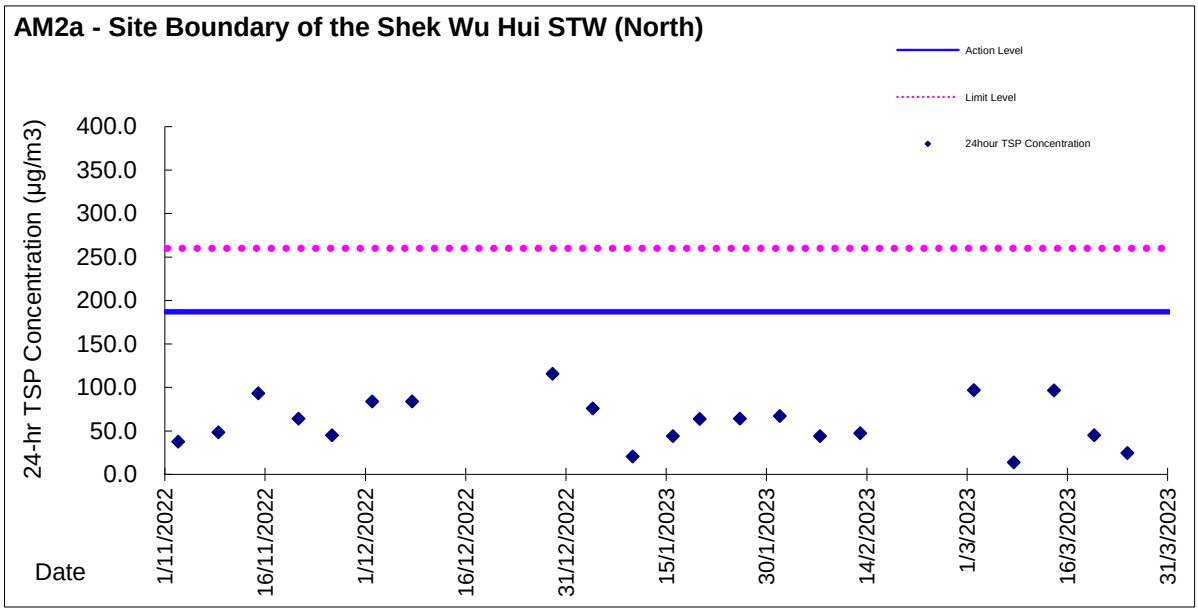
Graphic Presentation of TSP Result





Graphic Presentation of TSP Result





1. 24hr-TSP monitoring at AM2a was suspended on 31 Mar 2023 due to power failure.

Appendix 5.4

Details of Ecological Monitoring Results in the Reporting Month

Summary data of the Ecological Monitoring

Scientific Names	Common Names	Chinese Names	Waterbird	Point Count Abundance	Transect Count Abundance
Ardeola bacchus	Chinese Pond Heron	池鷺	X	33	++++
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	X	18	++
Ardea cinerea	Grey Heron	蒼鷺	X	30	++++
Ardea alba	Great Egret	大白鷺	X	23	+++
Egretta garzetta	Little Egret	小白鷺	X	132	+++++
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	X	19	++
Milvus migrans	Black Kite	0	X	6	+
Amaurornis phoenicurus	White-breasted Waterhen	白胸苦惡鳥	X	5	+
Himantopus himantopus	Black-winged Stilt	黑翅長腳鷸	X	18	+++
Tringa stagnatilis	Marsh Sandpiper	澤鷸	X	0	+
Tringa nebularia	Common Greenshank	青腳鷸	X	3	+
Tringa ochropus	Green Sandpiper	白腰草鷸	X	2	+
Actitis hypoleucos	Common Sandpiper	磯鷸	X	26	++++
Spilopelia chinensis	Spotted Dove	珠頸斑鳩		51	+++++
Centropus sinensis	Greater Coucal	褐翅鴉鵑		8	+

Scientific Names	Common Names	Chinese Names	Waterbird	Point Count Abundance	Transect Count Abundance
Eudynamys scolopaceus	Asian Koel	噪鵑		32	+++++
Hierococcyx sparverioides	Large Hawk Cuckoo	大鷹鵑		1	+
Apus nipalensis	House Swift	小白腰雨燕		12	++
Halcyon smyrnensis	White-throated Kingfisher	白胸翡翠	X	4	+
Alcedo atthis	Common Kingfisher	普通翠鳥	X	4	+
Ceryle rudis	Pied Kingfisher	斑魚狗	X	3	+
Dicrurus macrocercus	Black Drongo	黑卷尾		1	+
Urocissa erythroryncha	Red-billed Blue Magpie	紅嘴藍鵲		2	+
Pica pica	Eurasian Magpie	喜鵲		10	++
Corvus torquatus	Collared Crow	白頸鴉	X	2	+
Parus cinereus	Cinereous Tit	蒼背山雀		7	++
Pycnonotus jocosus	Red-whiskered Bulbul	紅耳鵯		118	+++++
Pycnonotus sinensis	Chinese Bulbul	白頭鵯		44	+++++
Hirundo rustica	Barn Swallow	家燕		11	+++
Phylloscopus fuscatus	Dusky Warbler	褐柳鶯		4	+
Phylloscopus proregulus	Pallas's Leaf Warbler	黃腰柳鶯		2	+

Scientific Names	Common Names	Chinese Names	Waterbird	Point Count Abundance	Transect Count Abundance
Phylloscopus inornatus	Yellow-browed Warbler	黃眉柳鶯		24	+++
Prinia flaviventris	Yellow-bellied Prinia	黃腹鷦鶯		3	+
Prinia inornata	Plain Prinia	純色鷦鶯		7	++
Orthotomus sutorius	Common Tailorbird	長尾縫葉鶯		36	+++++
Garrulax perspicillatus	Masked Laughingthrush	黑臉噪鶥		42	+++++
Zosterops japonicus	Japanese White-eye	暗綠繡眼鳥		51	+++++
Acridotheres cristatellus	Crested Myna	八哥		344	+++++
Gracupica nigricollis	Black-collared Starling	黑領椋鳥		88	+++++
Copsychus saularis	Oriental Magpie Robin	鵲鴝		7	+
Phoenicurus auroreus	Daurian Redstart	北紅尾鴝		1	+
Passer montanus	Eurasian Tree Sparrow	樹麻雀		22	+++++
Motacilla alba	White Wagtail	白鶺鴒		45	+++++
Anthus godlewskii	Olive-backed Pipit	樹鷚		2	+

Remarks:

X: Waterbird ;

Transect abundance, +: <10, ++: 11-20, +++: 21-30, ++++: 31-40, +++++: >40

According to S4.7 of the approved Baseline Monitoring Report (Ecology), "waterbirds" was defined as "waterbirds and wetland-dependent species", which was referenced to Monthly Waterbird Monitoring Biannual Reports prepared by the Hong Kong Bird Watching Society (Anon, 2020).

Also, S.13.11.3.2 of NENT NDA EIA Study requires "Monitoring of Measures to Mitigate for Impacts of the Project on Wetland-dependent Fauna using the Ng Tung, Sheung Yue and Shek Sheung Rivers". Therefore, "wetland-dependent birds" should be considered as "waterbirds". As raptors and Collared Crow are "wetland-dependent species", they should be taken into consideration in data analysis and impact assessment on waterbirds.

Waterbird Ecological Monitoring Result

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	1/3/2023	12:00	H	105	252	25
		10:00	L	147		27
2	7/3/2023	11:30	H	96	289	21
		15:30	L	193		27
3	14/3/2023	11:00	H	79	223	18
		8:45	L	144		24
4	22/3/2023	12:30	H	103	298	21
		14:45	L	195		27
5	29/3/2023	10:00	H	146	241	21
		8:15	L	95		24

Remarks: H: High Tide; L: Low Tide

Total Waterbird Abundance from Point Count					
Survey Information				Total Waterbird Abundance from Point Count	
No.	Date	Time	Tide Level	Individuals Recorded	Total
1	1/3/2023	12:15	H	18	55
		10:00	L	37	
2	7/3/2023	11:30	H	24	112
		15:30	L	88	
3	14/3/2023	11:00	H	15	45
		8:45	L	30	
4	22/3/2023	12:30	H	18	62
		14:45	L	44	
5	29/3/2023	10:00	H	33	54
		8:15	L	21	

Remarks: H: High Tide; L: Low Tide

T-Test Analysis for All Waterbirds

Baseline Data

Monthly Average Abundance (March)	48.13
Seasonal Average Abundance (Winter season)	62.15

T-Test

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

H_0: The data collected in the reporting month falls within the normal distribution when compared to the baseline monitoring data;

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

If t-test value is **smaller** than the critical value, then rejects H_0.

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

Crit. Value = -2.132 (95% Confidence Level)

Crit. Value = -3.747 (99% Confidence Level)

T-values of Data in Reporting Month			Confidence Level (Critical Value)	
			95% (-2.132)	99% (-3.747)
Abundance	Monthly	1.710	✓	✓
	Seasonal	0.533	✓	✓

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.

Abundance of Representative Waterbirds from Point Count											
Representative Species			**Recorded Abundance**							**Baseline Data**	
			Week 1	**Week2**	**Week 3**	**Week 4**	**Week 5**	**Total**	**Avg.**	**Avg (Mar)**	**Avg (Winter)**
Species Name	**Common Name**	**Chinese Name**	**1/3/2023**	**7/3/2023**	**14/3/2023**	**22/3/2023**	**29/3/2023**				
Egretta garzetta	Little Egret	小白鷺	19	42	15	33	23	132	26	19	15
Ardea cinerea	Grey Heron	蒼鷺	8	9	4	3	6	30	6	3	13
Ardeola bacchus	Chinese Pond Heron	池鷺	4	13	4	7	5	33	7	9	9
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	6	9	4	0	0	19	4	3	7
Ardea alba	Great Egret	大白鷺	5	7	5	5	1	23	5	4	5
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	2	10	0	0	6	18	4	9	4

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 distribution when compared to the baseline monitoring data;

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

If t-test value is **smaller** than the critical value, then rejects H_0.

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

Crit. Value = -2.132 (95% Confidence Level)

Crit. Value = -3.747 (99% Confidence Level)

Common Name of Representative Waterbird	T-value	Confidence Level (Critical Value)		T-value	Confidence Level (Critical Value)		Overall
	Monthly	95%	99%	Seasonal	95%	99%	
Little Egret	1.506	✓	✓	2.319	✓	✓	✓
Grey Heron	2.631	✓	✓	-6.139	X	X	✓
Chinese Pond Heron	-1.419	✓	✓	-1.419	✓	✓	✓
Great Cormorant	0.459	✓	✓	-1.835	✓	✓	✓
Great Egret	0.612	✓	✓	-0.408	✓	✓	✓
Eastern Cattle Egret	-2.785	X	✓	-0.206	✓	✓	✓

Remarks:

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

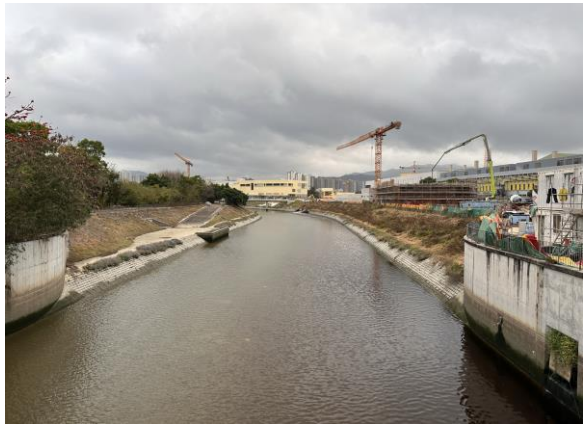
✚ = T-value falls outside the confidence level; the impact monitoring data shows significant difference to the baseline data.

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

Appendix 5.6

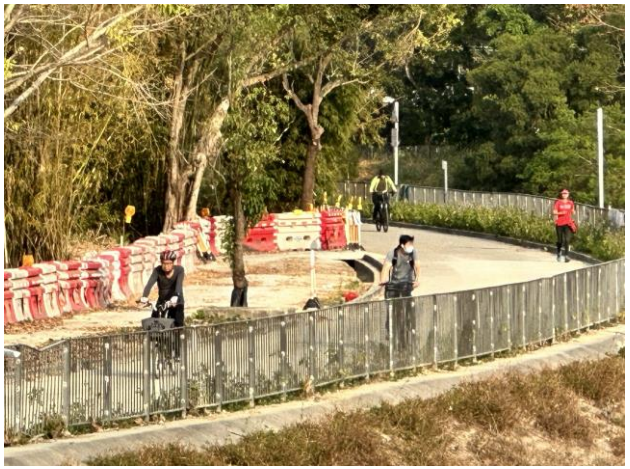
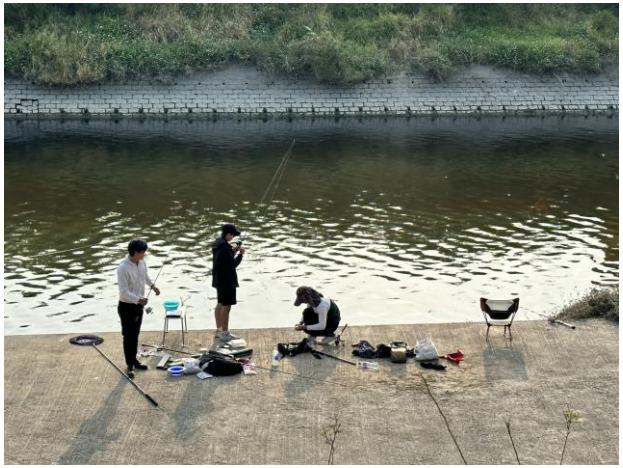
Photo Record of Ecological Monitoring

Conditions of Rivers

Sheung Yue River – Survey Point 7 (Taken on 29 Mar 2023)	**Shek Sheung River – Survey Point 6 (Taken on 7 Mar 2023)**
	
Shek Sheung River - Survey Point 5 (Taken on 14 Mar 2023)	**Ng Tung River - Survey Point 4 (Taken on 22 Mar 2023)**

Human Activities & Site Conditions

Construction Activities (Ng Tung River) **(Project-related, taken on 7 Mar 2023)**	**Construction Activities (Shek Sheung River)** **(Project-related, taken on 1 Mar 2023)**
Construction Activities (Sheung Yue River) **(Non-project-related, taken on 29 Mar 2023)**	**Construction Activities (Ng Tung River)** **(Non-Project-related, taken on 22 Mar 2023)**

		
Human Activities (Sheung Yue River) **(Non-project-related, taken on 14 Mar 2023)**	**Human Activities (Ng Tung River)** **(Non- project-related, taken on 22 Mar 2023)**	**Human Activities (Ng Tung River)** **(Non-project-related, taken on 1 Mar 2023)**
		
Construction Activities (Ng Tung River) **(Non-Project-related, taken on 7 Mar 2023)**	**Construction Activities (Sheung Yue River)** **(Non-project-related, taken on 14 Mar 2023)**	**Human Activities (Ng Tung River)** **(Non-project-related, taken on 7 Mar 2023)**

Waterbird Species

Collared Crow	**Great Cormorant**	**Great Egret**
Eastern Cattle Egret	**Chinese Pond Heron**	**Waterbird in Shek Sheung River**

Appendix 5.7

Water Quality Monitoring Result

Data Sheet for Impact Water Quality Monitoring - SPW 12/2021

Date of Sampling: 1-Mar-23 Weather Condition: Fine Ambient Temperature,°C: 22

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	10:35	Middle	Pale Green	22.0	22.0	7.21	7.21	0.18	0.18	90.5	90.6	7.92	7.92	7.95	7.27	7.27	7.23	7.8		7.45	Turbidity exceeded action level.
Impact Station, Downstream of the proposed outfall	M1 DUP	10:37			22.0	22.0	7.21	7.21	0.18	0.18	91.0	91.2	7.97	7.99		7.19	7.18		7.1			
C1	C1	10:50	Middle	Pale Green	21.4	21.4	7.47	7.47	0.12	0.12	104.7	104.8	9.24	9.25	9.20	5.83	5.95	5.93	8.0		8.35	
Control Station, Upstream of the proposed outfall	C1 DUP	10:52			21.4	21.4	7.47	7.47	0.12	0.12	105.0	102.3	9.27	9.03		5.96	5.99		8.7			

Action Level Exceedance
Limit Level Exceedance

Date of Sampling: 3-Mar-23 Weather Condition: Fine Ambient Temperature,°C: 19

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	10:10	Middle	Pale Green	21.4	21.4	7.13	7.13	0.28	0.28	77.7	77.6	6.87	6.86	6.87	12.62	12.62	12.62	8.4			DO and Turbidity exceeded limit levels.
Impact Station, Downstream of the proposed outfall	M1 DUP	10:12			21.4	21.4	7.13	7.13	0.28	0.28	77.7	77.7	6.87	6.87		12.62	12.62		7.7			
C1	C1		Middle	Pale Green	20.4	20.4	7.81	7.81	0.11	0.11	103.7	102.8	9.33	9.25	9.27	8.70	8.49	8.54	8.1			
Control Station, Upstream of the proposed outfall	C1 DUP				20.4	20.4	7.81	7.81	0.11	0.11	103.0	102.5	9.28	9.23		8.48	8.50		8.1			

Action Level Exceedance
Limit Level Exceedance

Date of Sampling: 6-Mar-23 Weather Condition: Sunny Ambient Temperature,°C: 20

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	10:02	Middle	Pale Green	23.9	23.9	7.03	7.03	0.30	0.30	82.2	82.0	6.91	6.90	6.96	8.54	8.51	8.52	6.4		6.60	DO exceeded limit level.
Impact Station, Downstream of the proposed outfall	M1 DUP	10:04			23.9	23.9	7.03	7.03	0.30	0.30	83.2	83.4	7.00	7.01		8.51	8.51		6.8			
C1	C1	10:20	Middle	Pale Green	24.0	24.0	7.25	7.25	0.24	0.24	93.4	93.5	7.85	7.86	7.87	15.02	15.03	15.03	13.4		13.40	
Control Station, Upstream of the proposed outfall	C1 DUP	10:22			24.0	24.0	7.25	7.25	0.24	0.24	94.2	94.7	7.91	7.86		15.03	15.03		13.4			

Action Level Exceedance
Limit Level Exceedance

Data Sheet for Impact Water Quality Monitoring - SPW 12/2021

Date of Sampling: 8-Mar-23 Weather Condition: Sunny Ambient Temperature,°C: 22

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	10:33	Middle	Pale Green	24.0	24.0	7.12	7.12	0.31	31.00	80.4	79.6	6.76	6.70	6.74	7.64	7.65	7.61	6.6		6.75	DO exceeded limit level.
Impact Station, Downstream of the proposed outfall	M1 DUP	10:37			24.0	24.0	7.12	7.12	0.31	0.31	79.8	80.9	6.71	6.80		7.58	7.55		6.9			
C1	C1	11:00	Middle	Pale Green	24.2	24.2	7.21	7.21	0.20	0.20	94.0	94.2	7.90	7.92	7.92	16.11	16.11	16.11	13.8		13.70	
Control Station, Upstream of the proposed outfall	C1 DUP	11:02			24.2	24.2	7.21	7.21	0.20	0.20	94.5	94.8	7.85	7.99		16.11	16.11		13.6			

Action Level Exceedance
Limit Level Exceedance

Date of Sampling: 10-Mar-23 Weather Condition: Fine Ambient Temperature,°C: 24

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	10:25	Middle	Pale Green	24.5	24.5	7.91	7.91	0.08	0.08	109.6	109.1	9.13	9.09	9.10	8.20	8.21	8.14	11.4		11.30	
Impact Station, Downstream of the proposed outfall	M1 DUP	10:27			24.5	24.5	7.91	7.91	0.08	0.08	109.0	108.8	9.09	9.07		8.07	8.07		11.2			
C1	C1	10:40	Middle	Pale Green	24.0	24.0	7.70	7.70	0.12	0.12	105.8	105.1	8.91	8.85	8.81	14.11	14.11	14.11	18.5		18.80	
Control Station, Upstream of the proposed outfall	C1 DUP	10:42			24.0	24.0	7.70	7.70	0.12	0.12	104.1	103.3	8.77	8.70		14.11	14.11		19.1			

Action Level Exceedance
Limit Level Exceedance

Date of Sampling: 13-Mar-23 Weather Condition: Fine Ambient Temperature,°C: 21

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	10:30	Middle	Pale Green	21.9	21.9	7.67	7.67	0.12	0.12	97.7	97.6	8.55	8.54	8.51	11.76	11.73	11.76	19.0		18.85	SS exceeded action level.
Impact Station, Downstream of the proposed outfall	M1 DUP	10:32			21.9	21.9	7.67	7.67	0.12	0.12	96.9	96.6	8.48	8.45		11.77	11.77		18.7			
C1	C1	10:00	Middle	Pale Green	21.8	21.8	7.62	7.62	0.12	0.12	102.5	102.2	8.98	8.95	8.96	10.61	10.62	10.61	17.8		17.55	
Control Station, Upstream of the proposed outfall	C1 DUP	10:02			21.8	21.8	7.62	7.62	0.12	0.12	102.4	102.3	8.97	8.95		10.61	10.61		17.3			

Action Level Exceedance
Limit Level Exceedance

Data Sheet for Impact Water Quality Monitoring - SPW 12/2021

Date of Sampling: 15-Mar-23 Weather Condition: Fine Ambient Temperature, °C: 26

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	10:20	Middle	Pale Green	22.0	22.0	7.55	7.55	0.11	0.11	95.7	94.2	8.37	8.24	8.28	10.42	10.47	10.51	20.0		**20.20**	SS exceeded limit level.
Impact Station, Downstream of the proposed outfall	M1 DUP	10:22			22.0	22.0	7.55	7.55	0.11	0.11	94.4	94.5	8.26	8.26		10.27	10.88		20.4			
C1	C1		Middle	Pale Green	21.9	21.9	7.58	7.58	0.10	0.10	95.7	95.9	8.37	8.30	8.34	13.07	13.06	13.68	18.4		18.65	
Control Station, Upstream of the proposed outfall	C1 DUP				21.9	21.9	7.58	7.58	0.10	0.10	95.5	90.3	8.35	8.34		13.04	15.53		18.9			

Action Level Exceedance
Limit Level Exceedance

Date of Sampling: 17-Mar-23 Weather Condition: Fine Ambient Temperature, °C: 24

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	12:00	Middle	Pale Green	24.2	24.2	7.40	7.40	0.16	0.16	78.6	79.3	6.58	6.64	**6.64**	22.24	22.26	**22.29**	15.7		**15.50**	DO and turbidity exceeded limit levels; SS exceeded action level.
Impact Station, Downstream of the proposed outfall	M1 DUP	12:02			24.2	24.0	7.40	7.40	0.16	0.16	79.6	79.8	6.67	6.68		22.32	22.33		15.3			
C1	C1	11:30	Middle	Pale Green	24.8	24.8	7.57	7.57	0.12	0.12	100.6	99.6	8.32	8.26	8.10	13.47	13.49	13.53	12.7		12.70	
Control Station, Upstream of the proposed outfall	C1 DUP	11:32			24.8	24.8	7.57	7.57	0.12	0.12	97.9	93.0	8.10	7.71		13.58	13.59		12.7			

Action Level Exceedance
Limit Level Exceedance

Date of Sampling: 20-Mar-23 Weather Condition: Cloudy Ambient Temperature, °C: 24

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	11:10	Middle	Pale Green	24.1	24.1	7.09	7.09	0.28	0.28	69.2	69.1	5.80	5.79	**5.85**	6.85	6.80	6.71	9.5		9.45	DO exceeded limit level.
Impact Station, Downstream of the proposed outfall	M1 DUP	11:12			24.1	24.1	7.09	7.09	0.28	0.28	70.6	70.4	5.91	5.90		6.65	6.54		9.4			
C1	C1	10:55	Middle	Pale Green	23.7	23.7	7.23	7.23	0.24	0.24	72.3	73.1	6.12	6.19	6.14	8.88	8.85	8.87	12.3		12.20	
Control Station, Upstream of the proposed outfall	C1 DUP	10:57			23.7	23.7	7.23	7.23	0.24	0.24	73.7	77.6	6.09	6.15		8.87	8.86		12.1			

Action Level Exceedance
Limit Level Exceedance

Data Sheet for Impact Water Quality Monitoring - SPW 12/2021

Date of Sampling: 22-Mar-23 Weather Condition: Fine Ambient Temperature,°C: 27

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	10:30	Middle	Pale green	24.5	24.5	7.10	7.00	0.26	0.26	68.1	68.3	5.67	5.68	5.65	8.60	8.65	8.69	27.9		27.55	DO and SS exceeded limit levels.
Impact Station, Downstream of the proposed outfall	M1 DUP	10:32			24.5	24.8	7.00	7.00	0.26	0.26	68.1	67.3	5.66	5.60		8.81	8.68		27.2			
C1	C1	11:30	Middle	Pale green	24.8	24.8	7.23	7.23	0.26	0.26	73.0	73.2	6.04	6.05	6.01	7.77	7.77	7.76	19.5		19.70	
Control Station, Upstream of the proposed outfall	C1 DUP	11:32			24.8	24.8	7.23	7.23	0.26	0.26	72.8	71.7	6.02	5.93		7.75	7.75		19.9			

Action Level Exceedance
Limit Level Exceedance

Date of Sampling: 24-Mar-23 Weather Condition: Fine Ambient Temperature,°C: 26

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	10:00	Middle	Pale green	26.7	26.7	7.09	7.09	0.31	0.31	77.9	78.8	6.22	6.30	6.26	16.88	16.87	16.90	23.6		23.35	DO, turbidity and SS exceeded limit levels.
Impact Station, Downstream of the proposed outfall	M1 DUP	10:02			26.7	26.7	7.09	7.09	0.31	0.31	78.4	78.3	6.26	6.25		16.89	16.95		23.1			
C1	C1	10:40	Middle	Pale green	26.5	26.5	7.21	7.21	0.22	0.22	81.0	80.1	6.50	6.43	6.50	13.89	13.95	13.99	20.8		20.40	
Control Station, Upstream of the proposed outfall	C1 DUP	10:42			26.5	26.5	7.21	7.21	0.22	0.22	81.8	81.0	6.57	6.50		13.99	14.12		20.0			

Action Level Exceedance
Limit Level Exceedance

Date of Sampling: 27-Mar-23 Weather Condition: Cloudy Ambient Temperature,°C: 20

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		DO Average	Turbidity NTU		Turb Average	SS mg/L		SS Aaverage	Remarks / Observations
M1	M1	12:15	Middle	Pale green	22.4	22.4	7.24	7.24	0.16	0.16	77.1	77.4	6.63	6.66	6.60	7.65	7.60	7.60	7.0		7.00	DO exceeded limit level.
Impact Station, Downstream of the proposed outfall	M1 DUP	12:17			22.4	22.4	7.24	7.24	0.16	0.16	76.8	75.7	6.60	6.51		7.58	7.55		7.0			
C1	C1	12:35	Middle	Pale green	20.3	20.3	7.31	7.31	0.10	0.10	67.1	68.2	6.06	6.15	6.06	8.99	8.87	8.75	11.0		10.80	
Control Station, Upstream of the proposed outfall	C1 DUP	12:37			20.3	20.3	7.31	7.31	0.10	0.10	66.1	67.2	5.96	6.06		8.85	8.29		10.6			

Action Level Exceedance
Limit Level Exceedance

Data Sheet for Impact Water Quality Monitoring - SPW 12/2021

Date of Sampling: 29-Mar-23 Weather Condition: Cloudy Ambient Temperature,°C: 21

Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature		pH		Salinity		DO Saturation		DO		DO Average	Turbidity		Turb Average	SS		SS Aaverage	Remarks / Observations
					°C		-		ppt		%		mg/L			NTU			mg/L			
M1	M1	10:25	Middle	Pale green	20.1	20.1	7.09	7.07	0.13	0.13	66.5	67.1	6.03	6.08	**6.06**	11.48	11.48	11.48	3.2		3.65	DO exceeded limit level.
Impact Station, Downstream of the proposed outfall	M1 DUP	10:27			20.1	20.1	7.09	7.09	0.13	0.13	67.1	66.8	6.08	6.05		11.48	11.48		4.1			
C1	C1	10:45	Middle	Pale green	20.3	20.3	7.17	7.17	0.12	0.12	67.2	67.3	6.07	6.07	6.11	11.60	11.62	11.75	4.7		4.35	
Control Station, Upstream of the proposed outfall	C1 DUP	10:47			20.3	20.3	7.17	7.17	0.12	0.12	67.9	68.3	6.13	6.16		11.86	11.92		4.0			

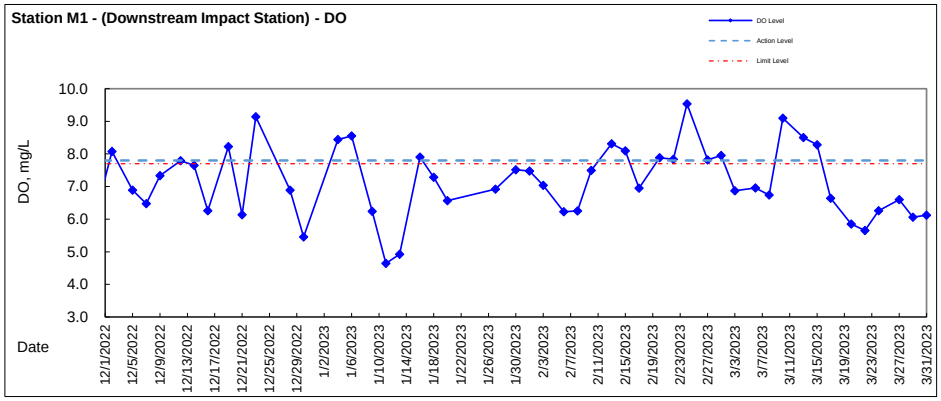
Action Level Exceedance
Limit Level Exceedance

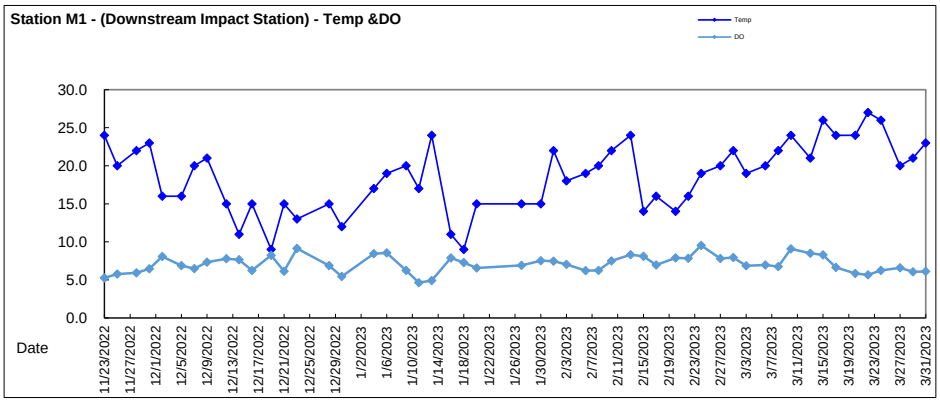
Date of Sampling: 31-Mar-23 Weather Condition: Fine Ambient Temperature,°C: 23

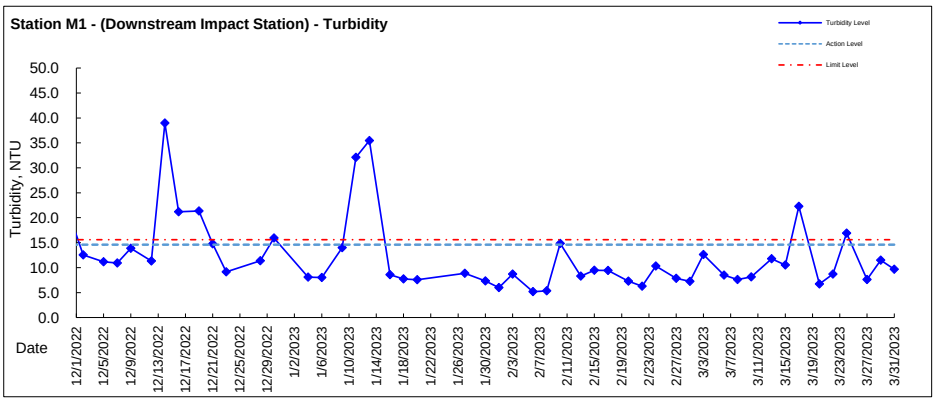
Station Reference	Sample ID	Time	Sampling Depth	Appearance	Temperature		pH		Salinity		DO Saturation		DO		DO Average	Turbidity		Turb Average	SS		SS Aaverage	Remarks / Observations
					°C		-		ppt		%		mg/L			NTU			mg/L			
M1	M1	11:00	Middle	Pale green	21.6	21.6	7.17	7.17	0.13	0.13	68.9	69.5	6.07	6.12	**6.12**	9.74	9.73	9.68	4.3		4.50	DO exceeded limit level.
Impact Station, Downstream of the proposed outfall	M1 DUP	11:02			21.6	21.6	7.17	7.17	0.13	0.13	70.0	69.6	6.17	6.13		9.62	9.62		4.7			
C1	C1	11:40	Middle	Pale green	21.9	21.0	7.15	7.15	0.12	0.12	76.6	77.4	6.72	6.79	6.76	11.77	11.84	11.84	7.8		7.55	
Control Station, Upstream of the proposed outfall	C1 DUP	11:41			21.9	21.9	7.15	7.15	0.12	0.12	77.5	76.9	6.79	6.74		11.83	11.93		7.3			

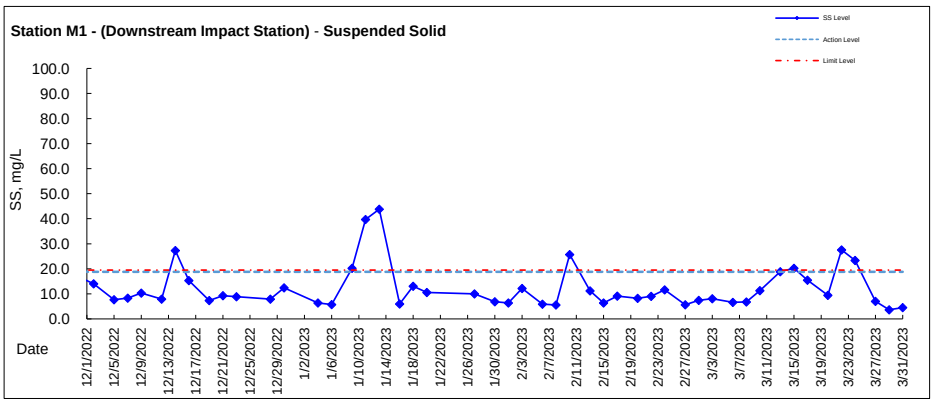
Action Level Exceedance
Limit Level Exceedance

Graphic Presentation of WQM Result

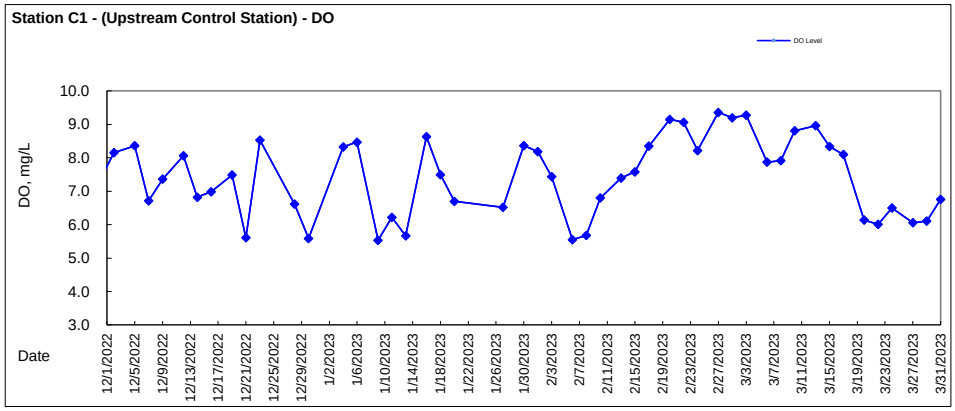


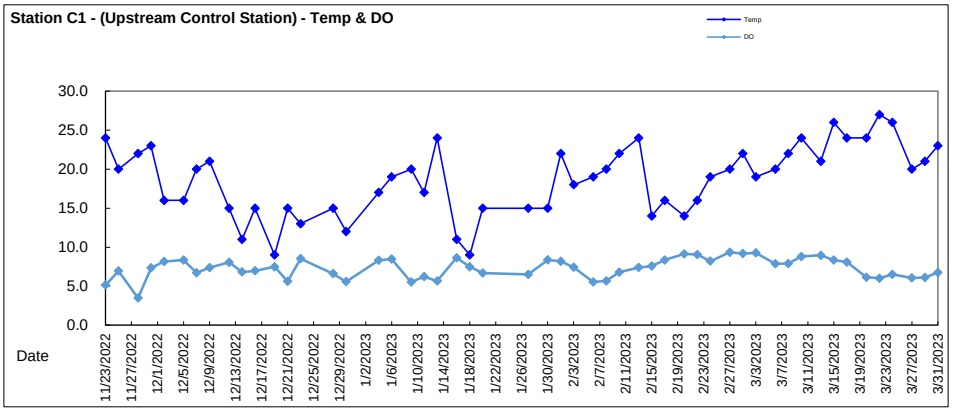


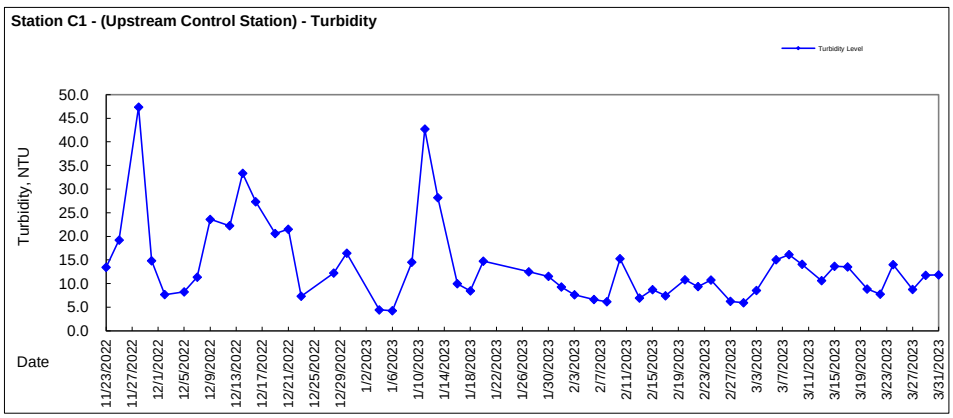


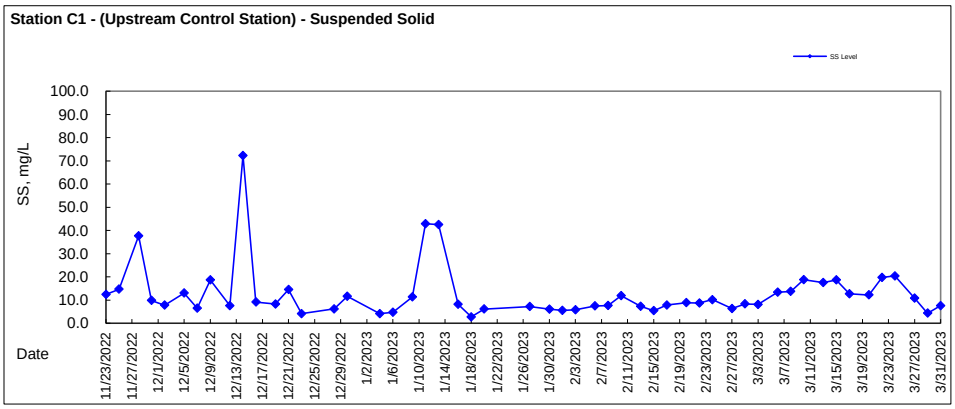


Graphic Presentation of WQM Result









Appendix 5.8

Laboratory Analysis Result

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307550
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong		
E-mail	: alexchan@lamenviro.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 03-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 07-Mar-2023
C-O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics, Kwai Tsing

General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 03-Mar-2023 to 07-Mar-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307550

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	01-Mar-2023	01-Mar-2023	01-Mar-2023	01-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307550-001	HK2307550-002	HK2307550-003	HK2307550-004	———
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	8.0	8.7	7.8	7.1	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4910814)								
HK2303355-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.6	6.3	5.0
HK2307552-003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	8.4	7.9	5.2

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report: Spike Concentration	Spike Recovery (%) LCS	DCS	Recovery Limits (%) Low	High	RPD (%) Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4910814)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	96.5	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307552
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Kwai Tsing Hong Kong		
E-mail	: alexchan@lamenviro.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 03-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 07-Mar-2023
C-O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics, Kwai Tsing

General Comments

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Testing period is from 03-Mar-2023 to 07-Mar-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307552

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	03-Mar-2023	03-Mar-2023	03-Mar-2023	03-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307552-001	HK2307552-002	HK2307552-003	HK2307552-004	———
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	8.1	8.1	8.4	7.7	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4910814)								
HK2303355-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.6	6.3	5.0
HK2307552-003	M1	EA025: Suspended Solids (SS)	----	0.5	mg/L	8.4	7.9	5.2

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report: Spike Concentration	Spike Recovery (%) LCS	DCS	Recovery Limits (%) Low	High	RPD (%) Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4910814)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	96.5	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307553
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: alexchan@lamenviro.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 08-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 15-Mar-2023
C-O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 08-Mar-2023 to 15-Mar-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307553

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	06-Mar-2023	06-Mar-2023	06-Mar-2023	06-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307553-001	HK2307553-002	HK2307553-003	HK2307553-004	———
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	13.4	13.4	6.4	6.8	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4923191)								
HK2307553-001	C1	EA025: Suspended Solids (SS)	----	0.5	mg/L	13.4	13.9	3.1
HK2308819-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	29.8	29.1	2.1

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report: Spike Concentration	Spike Recovery (%) LCS	DCS	Recovery Limits (%) Low	High	RPD (%) Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4923191)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	97.0	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307554
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: alexchan@lamenviro.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 08-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 15-Mar-2023
C-O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

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Testing period is from 08-Mar-2023 to 15-Mar-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307554

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	08-Mar-2023	08-Mar-2023	08-Mar-2023	08-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307554-001	HK2307554-002	HK2307554-003	HK2307554-004	———
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	13.8	13.6	6.6	6.9	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4923191)								
HK2307553-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	13.4	13.9	3.1
HK2308819-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	29.8	29.1	2.1

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report: Spike Concentration	Spike Recovery (%) LCS	DCS	Recovery Limits (%) Low	High	RPD (%) Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4923191)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	97.0	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307555
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: alexchan@lamenviro.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 10-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 15-Mar-2023
C-O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

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Testing period is from 10-Mar-2023 to 15-Mar-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307555

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	10-Mar-2023	10-Mar-2023	10-Mar-2023	10-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307555-001	HK2307555-002	HK2307555-003	HK2307555-004	——
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	18.5	19.1	11.4	11.2	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4923191)								
HK2307553-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	13.4	13.9	3.1
HK2308819-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	29.8	29.1	2.1

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4923191)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	97.0	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307557
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: alexchan@lamenviro.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 15-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 21-Mar-2023
C-O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

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Testing period is from 15-Mar-2023 to 21-Mar-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307557

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	13-Mar-2023	13-Mar-2023	13-Mar-2023	13-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307557-001	HK2307557-002	HK2307557-003	HK2307557-004	———
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	17.8	17.3	19.0	18.7	—

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4939903)								
HK2307557-001	C1	EA025: Suspended Solids (SS)	----	0.5	mg/L	17.8	18.2	2.2
HK2307559-003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	15.7	15.0	4.3

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4939903)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307558
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E- mail	: alexchan@lamenviro.com	E- mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 15-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 21-Mar-2023
C- O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.
Testing period is from 15- Mar- 2023 to 21-Mar- 2023.
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307558

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	15-Mar-2023	15-Mar-2023	15-Mar-2023	15-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307558-001	HK2307558-002	HK2307558-003	HK2307558-004	——
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	18.4	18.9	20.0	20.4	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
				Laboratory Duplicate (DUP) Report				
EA/ED: Physical and Aggregate Properties (QC Lot: 4939903)								
HK2307557- 001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	17.8	18.2	2.2
HK2307559- 003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	15.7	15.0	4.3

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4939903)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307559
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: alexchan@lamenviro.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 17-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 21-Mar-2023
C-O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

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Testing period is from 17-Mar-2023 to 21-Mar-2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307559

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	17-Mar-2023	17-Mar-2023	17-Mar-2023	17-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307559-001	HK2307559-002	HK2307559-003	HK2307559-004	———
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	12.7	12.7	15.7	15.3	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4939903)								
HK2307557-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	17.8	18.2	2.2
HK2307559-003	M1	EA025: Suspended Solids (SS)	----	0.5	mg/L	15.7	15.0	4.3

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report: Spike Concentration	Spike Recovery (%) LCS	DCS	Recovery Limits (%) Low	High	RPD (%) Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4939903)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
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E- mail	: alexchan@lamenviro.com	E- mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 20-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 29-Mar-2023
C- O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

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Testing period is from 20- Mar- 2023 to 29Mar- 2023.
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307560

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	20-Mar-2023	20-Mar-2023	20-Mar-2023	20-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307560-001	HK2307560-002	HK2307560-003	HK2307560-004	——
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	12.3	12.1	9.5	9.4	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
				Laboratory Duplicate (DUP) Report				
EA/ED: Physical and Aggregate Properties (QC Lot: 4953305)								
HK2307560- 001	C1	EA025: Suspended Solids (SS)	----	0.5	mg/L	12.3	12.6	2.2
HK2307562- 003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	23.6	24.0	1.8

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4953305)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307561
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E- mail	: alexchan@lamenviro.com	E- mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 22-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 29-Mar-2023
C- O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

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Testing period is from 22- Mar- 2023 to 29Mar- 2023.
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307561

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	22-Mar-2023	22-Mar-2023	22-Mar-2023	22-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307561-001	HK2307561-002	HK2307561-003	HK2307561-004	——
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	19.5	19.9	27.9	27.2	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
				Laboratory Duplicate (DUP) Report				
EA/ED: Physical and Aggregate Properties (QC Lot: 4953305)								
HK2307560- 001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	12.3	12.6	2.2
HK2307562- 003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	23.6	24.0	1.8

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4953305)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307562
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E- mail	: alexchan@lamenviro.com	E- mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 24-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 29-Mar-2023
C- O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

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Testing period is from 24- Mar- 2023 to 29Mar- 2023.
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307562

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	24-Mar-2023	24-Mar-2023	24-Mar-2023	24-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307562-001	HK2307562-002	HK2307562-003	HK2307562-004	——
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	20.8	20.0	23.6	23.1	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
				Laboratory Duplicate (DUP) Report				
EA/ED: Physical and Aggregate Properties (QC Lot: 4953305)								
HK2307560- 001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	12.3	12.6	2.2
HK2307562- 003	M1	EA025: Suspended Solids (SS)	----	0.5	mg/L	23.6	24.0	1.8

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4953305)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307563
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E- mail	: alexchan@lamenviro.com	E- mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 28-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 04-Apr-2023
C- O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

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Testing period is from 28- Mar- 2023 to 04-Apr- 2023.
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307563

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	27-Mar-2023	27-Mar-2023	27-Mar-2023	27-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307563-001	HK2307563-002	HK2307563-003	HK2307563-004	——
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	11.0	10.6	7.0	7.0	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4965849)								
HK2307563- 003	M1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.0	7.6	8.6
HK2311780- 003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	8.9	92	3.9

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report: Spike Concentration	Spike Recovery (%) LCS	DCS	Recovery Limits (%) Low	High	RPD (%) Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4965849)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	95.5	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307564
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E- mail	: alexchan@lamenviro.com	E- mail	: richard.fung@alsglobal.com		
Telephone	: 2839 5629	Telephone	: +852 2610 1044		
Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 29-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 04-Apr-2023
C- O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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This document has been signed by those names that appear on this report and are the authorised signatories.

Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Testing period is from 29- Mar- 2023 to 04-Apr- 2023.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307564

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	29Mar-2023	29Mar-2023	29Mar-2023	29Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307564-001	HK2307564-002	HK2307564-003	HK2307564-004	——
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	4.7	4.0	3.2	4.1	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4965849)								
HK2307563- 003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.0	7.6	8.6
HK2311780- 003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	8.9	92	3.9

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report: Spike Concentration	Spike Recovery (%) LCS	DCS	Recovery Limits(%) Low	High	RPD (%) Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4965849)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	95.5	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: LAM ENVIRONMENTAL SERVICES LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
Contact	: ALEX CHAN	Contact	: Richard Fung	Work Order	: HK2307565
Address	: 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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Facsimile	: 2882 3331	Facsimile	: +852 2610 2021		
Project	: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT			Date Samples Received	: 31-Mar-2023
Order number	: —	Quote number	: HKE/2224/2021_V3	Issue Date	: 13-Apr-2023
C- O-C number	: —			No. of samples received	: 4
Site	:			No. of samples analysed	: 4

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This document has been signed by those names that appear on this report and are the authorised signatories.

Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.
Testing period is from 31- Mar- 2023 to 13-Apr- 2023.
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2307565

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	—
			Sampling date / time	31-Mar-2023	31-Mar-2023	31-Mar-2023	31-Mar-2023	----
Compound	CAS Number	LOR	Unit	HK2307565-001	HK2307565-002	HK2307565-003	HK2307565-004	——
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	2.0	mg/L	7.8	7.3	4.3	4.7	—

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
				Laboratory Duplicate (DUP) Report				
EA/ED: Physical and Aggregate Properties (QC Lot: 4984811)								
HK2307565- 001	C1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.8	8.1	4.1
HK2312886- 003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	17.3	17.8	2.7

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4984811)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	96 .0	----	85.1	116	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Appendix 5.9

Monthly Summary Waste Flow Table

Name of Department: DSD

Contract No. DC/2018/06

Monthly Summary Waste Flow Table for 2023

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	0.442	0.000	0.000	0.000	0.442	3.796	0.000	0.000	0.000	0.000	0.061
Feb	1.381	0.000	0.000	0.000	1.381	2.962	0.000	0.000	0.000	0.000	0.078
Mar	2.381	0.000	0.000	0.000	2.381	3.349	0.000	0.000	0.000	0.000	0.088
Apr											
May											
Jun											
Sub-total	4.204	0.000	0.000	0.000	4.204	10.108	0.000	0.000	0.000	0.000	0.228
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	4.204	0.000	0.000	0.000	4.204	10.108	0.000	0.000	0.000	0.000	0.228

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 non-inert C&D wastes are disposed at NENT.
7. The cut-off date of the quantity of waste disposed as public fill or general refuse was 30 Mar 2023.

Name of Department: DSD

Contract No. DC/2018/07

Monthly Summary Waste Flow Table for 2023

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	8.960	0.000	0.000	0.000	8.960	0.089	0.00	0.000	0.000	0.000	0.025
Feb	3.950	0.000	0.000	0.000	3.950	0.043	0.00	0.000	0.000	0.000	0.070
Mar	0.341	0.000	0.000	0.000	0.341	0.000	0.00	0.000	0.000	0.000	0.074
Apr											
May											
Jun											
Sub-total											
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	13.251	0.000	0.000	0.000	13.251	0.132	0.000	0.000	0.000	0.000	0.168

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

EM&A Monthly Reporting Template (cut-off at the end of each month)

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

Monthly Summary Waste Flow Table for 2023 (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	0	0	0	0	0	0	0	0.13	0	0	10.51T
Feb	0	0	0	0	0	0	0	0	0	0	17.33T
Mar	0	0	0	0	0	0	0	0	0	0	18.31T
Apr											
May											
June											
Sub-total											
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	0	0	0	0	0	0	0	0.13	0	0	46.15T

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

Monthly Summary Waste Flow Table for 2023 (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	7.26	0	0	0	7.26	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	1.97
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr											
May											
June											
Sub-total	7.26	0	0	0	7.26	0	0	0	0	0	1.97
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	7.26	0	0	0	7.26	0	0	0	0	0	1.97

Appendix 5.10

Exceedance Investigation Finding

Appendix 5.10a

Photo Record for

Out-site Boundary

Photo record of outside boundary taken on 11 April 2023

Appendix 5.10b

Site Diary

From Engineer Respective

Diary Date	Location	Sub Location	Period	Activity
2023/04/10	Portion C	Outfall	08:00 - 18:00	No activity on Public Holiday
2023/04/09	Portion C	Outfall	08:00 - 18:00	No activity on Sunday
2023/04/08	Portion C	Outfall	08:00 - 18:00	No activity on Public Holiday
2023/04/07	Portion C	Outfall	08:00 - 18:00	No activity on Public Holiday
2023/04/06	Portion C	Outfall	08:00 - 18:00	No activity
2023/04/05	Portion C	Outfall	08:00 - 18:00	No activity on Public Holiday
2023/04/04	Portion C	Outfall	08:00 - 18:00	No activity
2023/04/03	Portion C	Outfall	08:00 - 18:00	No activity
2023/04/02	Portion C	Outfall	08:00 - 18:00	No activity on Sunday
2023/04/01	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/31	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/30	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/29	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/28	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/27	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/26	Portion C	Outfall	08:00 - 18:00	No activity on Sunday
2023/03/25	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/24	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/23	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/22	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/21	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/20	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/19	Portion C	Outfall	08:00 - 18:00	No activity on Sunday
2023/03/18	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/17	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/16	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/15	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/14	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/13	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/12	Portion C	Outfall	08:00 - 18:00	No activity on Sunday
2023/03/11	Portion C	Outfall	08:00 - 18:00	1. Striking formwork from step-channel

2023/03/10	Portion C	Outfall	08:00 - 18:00	1.Installation of step-channel moulds 2.Erect formwork for step-channel 3.Pouring concrete to step-channel
2023/03/09	Portion C	Outfall	08:00 - 18:00	1.Installation of step-channel moulds 2.Erect formwork for step-channel
2023/03/08	Portion C	Outfall	08:00 - 18:00	1.Installation of step-channel moulds 2.Erect formwork for step-channel
2023/03/07	Portion C	Outfall	08:00 - 18:00	1. Erection of formwork for step-channel
2023/03/06	Portion C	Outfall	08:00 - 18:00	1. Excavation work for step-channel
2023/03/05	Portion C	Outfall	08:00 - 18:00	No activity on Sunday
2023/03/04	Portion C	Outfall	08:00 - 18:00	No activity
2023/03/03	Portion C	Outfall	08:00 - 18:00	1.General site work

2023/03/02	Portion C	Outfall	08:00 - 18:00	1.General site work
2023/03/01	Portion C	Outfall	08:00 - 18:00	1.General site work

Appendix 5.10c

Site Photo Record

Taken During WQM

Photo record from ET Team on 1 Mar 2023

Photo record from ET Team on 3 Mar 2023

Photo record from ET Team on 6 Mar 2023

Photo record from ET Team on 8 Mar 2023

Photo record from ET Team on 10 Mar 2023

Photo record from ET Team on 13 Mar 2023

Photo record from ET Team on 15 Mar 2023

Photo record from ET Team on 17 Mar 2023

Photo record from ET Team on 20 Mar 2023

Photo record from ET Team on 22 Mar 2023

Photo record from ET Team on 24 Mar 2023

Photo record from ET Team on 27 Mar 2023

Photo record from ET Team on 29 Mar 2023	Photo record from ET Team on 31 Mar 2023

Appendix 6.1

Event and Action Plans

Event and Action Plan

Event and Action Plan for Construction Noise

Event	Action			
	ET	IEC	ER	Contractor
Action Level exceeded	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. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures.	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level exceeded	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 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.	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; 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 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.	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; 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.

Event and Action Plan for Construction Dust Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level				
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 the Contractor.	1. Rectify any unacceptable practices. 2. Amend working methods agreed with the ER as appropriate.
Action level being exceeded by two or more consecutive sampling	1. Identify sources. 2. Inform the 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 the IEC, ER and Contractor on remedial action required. 7. If exceedance continues, arrange meeting with the IEC, Contractor and ER. 8. If exceedance stops, cease additional monitoring.	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.
Limit Level				
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	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.

Event	Action			
	ET	IEC	ER	Contractor
	ER informed of the results.			
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; 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.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the 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.	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. 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.

Event and Action Plan for Ecological Monitoring

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.

Event and 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 failure 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.
Repeated Non-conformity	1. Identify source; 2. Inform IEC, ER, EPD; 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.

Event and Action Plan for Water Quality Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level				
Action level being exceeded by one sampling day	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD.	1. Confirm receipt of notification of exceedance in writing	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice
Action level being exceeded by two or more consecutive sampling	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Consider changes of working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level				
Limit level being exceeded by one sampling day	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented. 4. Request Contractor(s) to critically review the working methods.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Critically review the need to change working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed mitigation measures.
Limit level being exceeded by two or more consecutive sampling days	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented. 4. Request Contractor(s) to critically review the working methods.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Critically review the need to change working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed mitigation measures.

Appendix 6.2

Summary of Notification of Exceedance

Summary for Notification of Exceedance

Reporting Period: March 2023

Ref No.	Date	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up Action
-	-	-	-	-	-	-	-

Ref. No.	Date	Time	Location	Construction Noise Level	Parameter	Action Level	Limit Level	Follow-up action
-	-	-	-	-	-	-	-	-

Ref no.	Date	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	Ref no.
SWH_034_w	1-Mar-23	M1	Turbidity (NTU)	**7.23 NTU (Action Level Exceedance)**	>7.12 NTU (>120% of C1)	>7.71 NTU (>130% of C1)	Cause of Exceedance:	Unknown pollution source from upstream of Ng Tung River
							ET's conclusions and recommendations for mitigation:	Exceedance not related to project, advised contractor to maintain on-going water mitigation measures.
							Contractor's actions to implement the mitigation:	Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	Turbidity (NTU)	5.93 NTU			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.

SWH_035_w	3-Mar-23	M1	DO (mg/L)	**6.87 mg/L (Limit Level Exceedance)**	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance:	Unknown pollution source from upstream of Ng Tung River
			Turbidity (NTU)	**12.62 NTU (Limit Level Exceedance)**	>10.02 NTU (>120% of C1)	>11.11 NTU (>130% of C1)	ET's conclusions and recommendations for mitigation:	Exceedance not related to project, advised contractor to maintain on-going water mitigation measures.
							Contractor's actions to implement the mitigation:	Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	DO (mg/L)	9.27 mg/L			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.
			Turbidity (NTU)	8.54 NTU				
SWH_036_w	6-Mar-23	M1	DO (mg/L)	**6.96 mg/L (Limit Level Exceedance)**	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance:	Unknown pollution source from upstream of Ng Tung River
							ET's conclusions and recommendations for mitigation:	Exceedance not related to project, advised contractor to maintain on-going water mitigation measures.
							Contractor's actions to implement the mitigation:	Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	DO (mg/L)	7.92 mg/L			Action taken under EAP :	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.

SWH_037_w	8-Mar-23	M1	DO (mg/L)	**6.74 mg/L (Limit Level Exceedance)**	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance: ET's conclusions and recommendations for mitigation: Contractor's actions to implement the mitigation:	Unknown pollution source from upstream of Ng Tung River Exceedance not related to project, advised contractor to maintain on-going water mitigation measures. Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	DO (mg/L)	5.68 mg/L			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.
SWH_038_w	13-Mar-23	M1	SS (mg/L)	**18.85 mg/L (Action Level Exceedance)**	>18.8 mg/L	>19.5 mg/L	Cause of Exceedance: ET's conclusions and recommendations for mitigation: Contractor's actions to implement the mitigation:	Unknown pollution source from upstream of Ng Tung River Exceedance not related to project, advised contractor to maintain on-going water mitigation measures. Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	SS (mg/L)	17.55 mg/L			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.
SWH_039_w	15-Mar-23	M1	SS (mg/L)	**20.20 mg/L (Limit Level Exceedance)**	>18.8 mg/L	>19.5 mg/L	Cause of Exceedance: ET's conclusions and recommendations for mitigation: Contractor's actions to implement the mitigation:	Unknown pollution source from upstream of Ng Tung River Exceedance not related to project, advised contractor to maintain on-going water mitigation measures. Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.

		C1 (Control Station for comparing to the impact station - M1)	SS (mg/L)	18.65 mg/L			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.
SWH_040_w	17-Mar-23	M1	DO (mg/L)	**6.64 mg/L (Limit Level Exceedance)**	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance:	Unknown pollution source from upstream of Ng Tung River
			Turbidity (NTU)	**22.29 NTU (Limit Level Exceedance)**	>14.6 NTU	>15.6 NTU	ET's conclusions and recommendations for mitigation:	Exceedance not related to project, advised contractor to maintain on-going water mitigation measures.
			SS (mg/L)	**15.50 mg/L (Action Level Exceedance)**	>15.24 mg/L (>120% of C1)	>16.51 mg/L (>130% of C1)	Contractor's actions to implement the mitigation:	Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	DO (mg/L)	8.10 mg/L			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.
			Turbidity (NTU)	13.53 NTU				
			SS (mg/L)	12.70 mg/L				
SWH_042_w	22-Mar-23	M1	DO (mg/L)	**5.65 mg/L (Limit Level Exceedance)**	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance:	Unknown pollution source from upstream of Ng Tung River
			SS (mg/L)	**27.55 mg/L (Limit Level Exceedance)**	>18.8 mg/L	>19.5mg/L	ET's conclusions and recommendations for mitigation:	Exceedance not related to project, advised contractor to maintain on-going water mitigation measures.
							Contractor's actions to implement the mitigation:	Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	DO (mg/L)	6.01 mg/L			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.
			SS (mg/L)	19.70 mg/L				

SWH_043_w	24-Mar-23	M1	DO (mg/L)	**6.26 mg/L (Limit Level Exceedance)**	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance:	Unknown pollution source from upstream of Ng Tung River
			Turbidity (NTU)	**16.90 NTU (Limit Level Exceedance)**	>14.6 NTU	>15.6 NTU	ET's conclusions and recommendations for mitigation:	Exceedance not related to project, advised contractor to maintain on-going water mitigation measures.
			SS (mg/L)	**23.35 mg/L (Action Level Exceedance)**	18.8 mg/L	19.5 mg/L	Contractor's actions to implement the mitigation:	Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	DO (mg/L)	6.50 mg/L			Action taken under EAP :	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.
			Turbidity (NTU)	13.99 NTU				
			SS (mg/L)	20.40 mg/L				
SWH_044_w	27-Mar-23	M1	DO (mg/L)	**6.60 mg/L (Limit Level Exceedance)**	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance:	Unknown pollution source from upstream of Ng Tung River
							ET's conclusions and recommendations for mitigation:	Exceedance not related to project, advised contractor to maintain on-going water mitigation measures.
							Contractor's actions to implement the mitigation:	Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	DO (mg/L)	6.06 mg/L			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.

SWH_045_w	29-Mar-23	M1	DO (mg/L)	**6.06 mg/L (Limit Level Exceedance)**	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance: ET's conclusions and recommendations for mitigation: Contractor's actions to implement the mitigation:	Unknown pollution source from upstream of Ng Tung River Exceedance not related to project, advised contractor to maintain on-going water mitigation measures. Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	DO (mg/L)	6.11 mg/L			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.
SWH_046_w	31-Mar-23	M1	DO (mg/L)	**6.12 mg/L (Limit Level Exceedance)**	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance: ET's conclusions and recommendations for mitigation: Contractor's actions to implement the mitigation:	Unknown pollution source from upstream of Ng Tung River Exceedance not related to project, advised contractor to maintain on-going water mitigation measures. Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed.
		C1 (Control Station for comparing to the impact station - M1)	DO (mg/L)	6.76 mg/L			Action taken under EAP:	1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. 2. ET checked the monitoring data, plant and equipment, and no abnormality was identified. 3. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works 4. After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. 5. Notification of Exceedance was sent to IEC and ER.

Appendix 8.1

Complaint Log

Summary of Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
1	18 March 2020	EPD	Expansion Site of SWHSTP (Portion C)	Water contamination	Muddy water was suspected to be discharged from the expansion site of SWHSTP to Shek Sheung River, manholes and foul drains nearby The investigation and mitigation measures included - 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
2	19 February 2021	EPD	SWHEPP	Odour nuisance	Significant odour nuisance was suspected to be emitted from the construction activities of SWHEPP The investigation and mitigation measures included - 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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
3	9 August 2021	EPD	SWHEPP	Air Quality	Air nuisance was suspected to be originated from the construction activities of SWHEPP The investigation and mitigation measures included - 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	Closed
20220304	4 March 2022	EPD	SWHEPP	Odour nuisance	The complainant alleged the odour nuisance was sourced from the construction site of Shek Wu Hui Effluent Polishing Plant on 4 March 2022. Thus, all four contracts (Contract Nos. DC/2018/06, DC/2018/07, DE/2018/03 and DE/2018/04) were involved in the complaint investigation. After investigation, no construction activities undertaken by all four contracts was associated with the odour nuisance received on 4 March 2022. Nevertheless, the contractors were reminded and recommended to: • Ensure only equipment with valid NRMM label is allowed to be used at site and regular maintenance of equipment • Provide regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart • Use ULSD as fuel for diesel-powered equipment • Maintain proper segregation and storage of general refuse	Closed on 22 April 2022 as confirmed with EPD.

Appendix 9.1

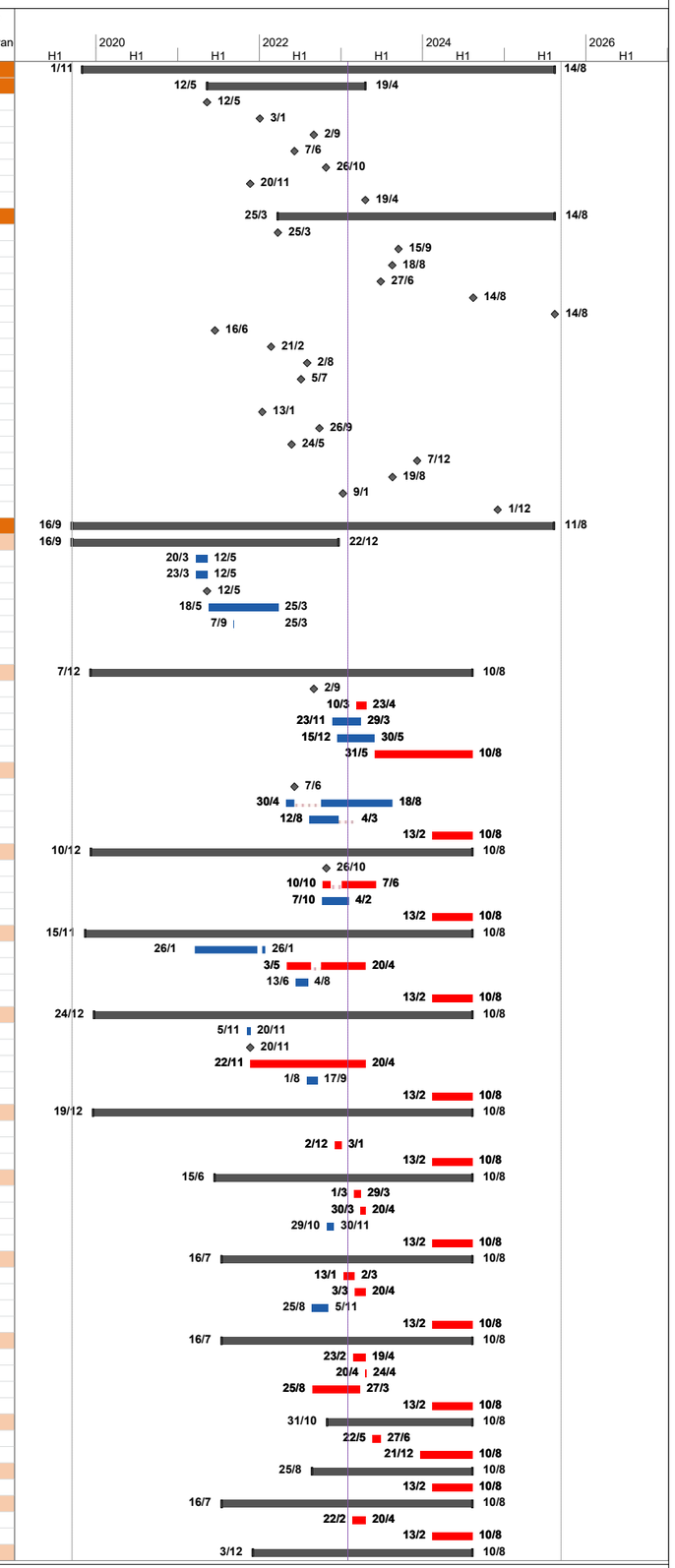
Construction Programme of Individual Contracts

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

Executive Summary Programme (Status Date:20/2/2023)

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	Predecessors	Successors	% Complete	Time Risk Allowan
34	**PD-00000**	*	**Planned Completion - Key Date (cal. day)**			**2114 days**	**Fri 1/11/19**	**Thu 14/8/25**	**Fri 1/11/19**	**NA**			**29%**	
35	**PKD-00000**	*	**Planned Completion - Key Dates**			**707.8 days**	**Wed 12/5/21**	**Wed 19/4/23**	**Wed 12/5/21**	**NA**			**0%**	
36	PKD-01000	KD1A	KD1A			0 days	Wed 12/5/21	Wed 12/5/21	Wed 12/5/21	Wed 12/5/21	301FF	19FF	100%	
37	PKD-02000	KD2A	KD2A			0 days	Mon 3/1/22	Mon 3/1/22	Mon 3/1/22	Mon 3/1/22	661FF	20FF	100%	
38	PKD-03000	KD3A	KD3A			0 days	Fri 2/9/22	Fri 2/9/22	Fri 2/9/22	Fri 2/9/22	331FF	21FF	100%	
39	PKD-04000	KD3B	KD3B			0 days	Tue 7/6/22	Tue 7/6/22	Tue 7/6/22	Tue 7/6/22	367FF	22FF	100%	
40	PKD-05000	KD3C	KD3C			0 days	Wed 26/10/22	Wed 26/10/22	Wed 26/10/22	Wed 26/10/22	389FF	23FF	100%	
41	PKD-06000	KD3D	KD3D			0 days	Sat 20/11/21	Sat 20/11/21	Sat 20/11/21	Sat 20/11/21	421FF	24FF	100%	
42	PKD-07000	KD3E	KD3E			0 days	Wed 19/4/23	Wed 19/4/23	NA	NA	436FF,445FF,455FF,465FF,50	25FF	0%	
43	**PCD-00000**	*	**Planned Completion - Section of the Works (cal. day)**			**1239 days**	**Fri 25/3/22**	**Thu 14/8/25**	**Fri 25/3/22**	**NA**			**0%**	
44	PCD-01000	SW1	Section 1 of Works			0 days	Fri 25/3/22	Fri 25/3/22	Fri 25/3/22	Fri 25/3/22	557FF,589FF,590FF,591FF,59	27FF	100%	
45	PCD-02000	SW2	Section 2 of Works			0 days	Fri 15/9/23	Fri 15/9/23	NA	NA	682FF,694FF	28FF	0%	
46	PCD-03000	SW3	Section 3 of Works			0 days	Fri 18/8/23	Fri 18/8/23	NA	NA	205FF,391FF,405FF,423FF,44	627,29FF	0%	
47	PCD-04000	SW4	Section 4 of Works			0 days	Tue 27/6/23	Tue 27/6/23	NA	NA	558FF,346FF,372FF,392FF,40	30FF	0%	
48	PCD-05000	SW5	Section 5 of Works			0 days	Wed 14/8/24	Wed 14/8/24	NA	NA	308FF,347FF,373FF,393FF,40	49,50,31FF	0%	
49	PCD-06000	DLP	Defect Liability Period			365 days	Thu 15/8/24	Thu 14/8/25	NA	NA	48,628FF		0%	
56	IWKD1A-01040	KD1A	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Wed 16/6/21	Wed 16/6/21	Wed 16/6/21	Wed 16/6/21	55		100%	
64	IWKD2A-01040	KD2A	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Mon 21/2/22	Mon 21/2/22	Mon 21/2/22	Mon 21/2/22	63		100%	
72	IWKD3A-01040	KD3A	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Tue 2/8/22	Tue 2/8/22	Tue 2/8/22	Tue 2/8/22	71		100%	
81	IWKD3B-01040	KD3B	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Tue 5/7/22	Tue 5/7/22	Tue 5/7/22	Tue 5/7/22			100%	
89	IWKD3C-01040	KD3C	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Fri 8/7/22	Fri 8/7/22	Fri 8/7/22	NA			99%	
97	IWKD3D-01040	KD3D	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Thu 13/1/22	Thu 13/1/22	Thu 13/1/22	Thu 13/1/22			100%	
104	IWKD3E-01040	KD3E	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Mon 26/9/22	Mon 26/9/22	NA	NA	103		0%	
112	IWSW1-01040	SW1	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Tue 24/5/22	Tue 24/5/22	Tue 24/5/22	Tue 24/5/22	111		100%	
121	IWSW1-01040	SW2	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Thu 7/12/23	Thu 7/12/23	NA	NA	120		0%	
130	IWSW3-01040	SW3	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Sat 19/8/23	Sat 19/8/23	NA	NA	129		0%	
139	IWSW4-01040	SW4	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Mon 9/1/23	Mon 9/1/23	NA	NA	138		0%	
148	IWSW5-01040	SW5	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for January 2023			0 days	Sun 1/12/24	Sun 1/12/24	NA	NA	147		0%	
266	**CWPC-00000**	*	**Construction Works of Portion C of the Site**			**1753.8 days**	**Mon 16/9/19**	**Mon 11/8/25**	**Mon 16/9/19**	**NA**			**53%**	
267	**CUV1-00000**	*	**UV System No. 1 & Effluent Pumping Station No. 1 (1)**			**971 days**	**Mon 16/9/19**	**Thu 22/12/22**	**Mon 16/9/19**	**Thu 22/12/22**			**100%**	
298	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	295	301,302,300,304	100%	
299	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			100%	
301	**CUV1-11000**	**KD1A**	**Allow access to Contractor DE/2018/03 for E&M Installation**			**0 days**	**Wed 12/5/21**	**Wed 12/5/21**	**Wed 12/5/21**	**Wed 12/5/21**	**298**	**36FF**	**100%**	
302	CUV1-12000	SW1	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining		(95), (296), (367), 359	256 days	Tue 18/5/21	Fri 25/3/22	Tue 18/5/21	Fri 25/3/22	245SS,168SS,298	621,622,303,620	100%	
305	CUV1-12200	SW1	Effluent Chamber (including Additional Works from PMI)		292	163 days	Tue 7/9/21	Fri 25/3/22	Tue 7/9/21	Fri 25/3/22	304FS+1 day	44FF,306	100%	
307	CUV1-12500	SW4	Underground utilities works - Revised Cable Ducts plan		318, 276,219,248,207	47 days	Tue 30/8/22	Wed 26/10/22	NA	NA	303FF		0%	
308	CUV1-13000	SW5	Surrounding Site formation works and road works			180 days	Thu 21/12/23	Sat 10/8/24	NA	NA	347FF	48FF	0%	
309	**CSDC-00000**	*	**Sludge Digesters and Distribution Chamber (4)**			**1376.8 days**	**Sat 7/12/19**	**Sat 10/8/24**	**Sat 7/12/19**	**NA**			**64%**	
331	**CSDC-12000**	**KD3A**	**Allow access to Contractor DE/2018/03 for E&M Installation**			**0 days**	**Fri 2/9/22**	**Fri 2/9/22**	**Fri 2/9/22**	**Fri 2/9/22**	**322,330**	**38FF**	**100%**	
342	CSDC-12050	SW3	Civil & Structural works at G/F			45 days	Fri 10/3/23	Sun 23/4/23	NA	NA	340FF+29 days	46FF,343FF	0%	
345	CSDC-15000	SW3	ABWF Works & BS Works		(173),594	127 days	Wed 23/11/22	Wed 29/3/23	Wed 23/11/22	NA	245SS,168SS,322FS+15 days,	46FF	0%	
346	CSDC-15500	SW4	Surrounding sewerage, utility and process pipe works		358,298,222,248,205,206	131 days	Thu 15/12/22	Tue 30/5/23	Thu 15/12/22	NA	341	47FF,621FF,622FF,347,540FF,	0%	
347	CSDC-16000	SW5	Surrounding Site formation works and road works			350 days	Wed 31/5/23	Sat 10/8/24	NA	NA	346	48FF,373FF,393FF,407FF,425F	0%	
348	**CSDB-00000**	*	**Sludge Dewatering Building (2)**			**875.8 days?**	**Tue 26/11/19**	**Wed 9/11/22**	**Tue 26/11/19**	**NA**			**68%**	
367	**CSDB-12000**	**KD3B**	**Allow access to Contractor DE/2018/03 for E&M Installation**			**0 days**	**Tue 7/6/22**	**Tue 7/6/22**	**Tue 7/6/22**	**Tue 7/6/22**	**366**	**39FF,368FS+62 days,370**	**100%**	
371	CSDB-14000	SW3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining		(95), (173),594	288 days	Sat 30/4/22	Fri 18/8/23	Sat 30/4/22	NA	245SS,168SS,366SS+37 days	46FF	10%	
372	CSDB-14500	SW4	Surrounding sewerage, utility and process pipe works		(335),(53),219,248,205,206,207	167 days	Fri 12/8/22	Sat 4/3/23	Fri 12/8/22	NA	368SS,369SS-45 days	47FF,621FF,622FF,620FF	30%	
373	CSDB-15000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
374	**CHPB-00000**	*	**Combined Heat Power Building (3)**			**1374.8 days**	**Tue 10/12/19**	**Sat 10/8/24**	**Tue 10/12/19**	**NA**			**51%**	
389	**CHPB-09000**	**KD3C**	**Allow access to Contractor DE/2018/03 for E&M Installation**			**0 days**	**Wed 26/10/22**	**Wed 26/10/22**	**NA**	**NA**	**388**	**40FF,392FS-17 days**	**0%**	
391	CHPB-11000	SW3	ABWF Works & BS Works with additional/change to works information		(173)	156 days	Mon 10/10/22	Wed 7/6/23	Mon 10/10/22	NA	245SS,168SS,388FS-15 days	46FF	20%	
392	CHPB-11500	SW4	Surrounding sewerage, utility and process pipe works		221,219,220,248,205,206	98 days	Fri 7/10/22	Sat 4/2/23	Fri 7/10/22	NA	389FS-17 days	47FF,621FF,622FF,620FF	20%	
393	CHPB-12000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
394	**CSPS-00000**	*	**Sewage Pumping Station (9)**			**1395.8 days**	**Fri 15/11/19**	**Sat 10/8/24**	**Fri 15/11/19**	**NA**			**62%**	
404	CSPS-09000	KD3E	R.C. Structure & waterproofing works - Change to Work Information (Additional Puddle Flange and Civil Provision)	268, 338,	*(63) ,(303), (341)*	297 days	Tue 26/1/21	Wed 26/1/22	Tue 26/1/21	Wed 26/1/22	402,166,238,239,240,403SS-2	405,42FF	100%	
405	CSPS-10000	SW3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining			250 days	Tue 3/5/22	Thu 20/4/23	Tue 3/5/22	NA	245SS,168SS,167,404	46FF	36%	3
406	CSPS-10500	SW4	Surrounding sewerage, utility and process pipe works		386 , 299	45 days	Mon 13/6/22	Thu 4/8/22	Mon 13/6/22	Thu 4/8/22	328FS-38 days	47FF,621FF,622FF,424FS-4 da	100%	
407	CSPS-11000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
408	**CWS2-00000**	*	**Workshop No. 2 (5)**			**1362.8 days**	**Tue 24/12/19**	**Sat 10/8/24**	**Tue 24/12/19**	**NA**			**76%**	
420	CWS2-08030	KD3D	Roof Construction @+19.00mPD - Revised Civil Requirements in R/F		(302)	14 days	Fri 5/11/21	Sat 20/11/21	Fri 5/11/21	Sat 20/11/21	419	421	100%	
421	**CWS2-09000**	**KD3D**	**Allow access to Contractor DE/2018/03 for E&M Installation**			**0 days**	**Sat 20/11/21**	**Sat 20/11/21**	**Sat 20/11/21**	**Sat 20/11/21**	**420**	**41FF,422**	**100%**	
423	CWS2-11000	SW3	ABWF Works & BS Works - Revised Architectural Layout & Schedule for Doors, Louvers and Windows		(95), (173), (406,407,408)	415 days	Mon 22/11/21	Thu 20/4/23	Mon 22/11/21	NA	245SS,168SS	46FF	80%	
424	CWS2-11500	SW4	Surrounding sewerage, utility and process pipe works		221,219,220,205,206,207	41 days	Mon 1/8/22	Sat 17/9/22	Mon 1/8/22	Sat 17/9/22	406FS-4 days	47FF,621FF,622FF,447FS+34 d	100%	
425	CWS2-12000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
426	**CTHP-00000**	*	**Thermal Hydrolysis Pretreatment (6)**			**1366.8 days**	**Thu 19/12/19**	**Sat 10/8/24**	**Thu 19/12/19**	**NA**			**33%**	
436	CTHP-09000	KD3E, SW3	R.C. Plinth - Change to Works Information	268, 338	225, (115),(236)	0 days	Mon 2/11/20	Mon 2/11/20	Mon 2/11/20	Mon 2/11/20	434,325,435SS-2 emons	42FF,46FF	100%	
437	CTHP-09500	SW4	Surrounding sewerage, utility and process pipe works			25 days	Fri 2/12/22	Tue 3/1/23	Fri 2/12/22	NA	368FS+58 days,369SS+1 emor	47FF,621FF,622FF,620FF	0%	
438	CTHP-10000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
439	**CFCD-00000**	*	**Ferric Chloride Dosing Facilities (10)**			**930.8 days**	**Tue 15/6/21**	**Sat 10/8/24**	**Tue 15/6/21**	**NA**			**33%**	
445	CFCD-04000	KD3E	Steel Roof Structure (On-site Fabrication)			25 days	Wed 1/3/23	Wed 29/3/23	NA	NA	444	446,42FF	0%	
446	CFCD-05000	SW3	ABWF Works & BS Works, Change to Work Information (Application of Protective Lining System)		*594*	15 days	Thu 30/3/23	Thu 20/4/23	NA	NA	445,245,168	46FF	0%	
447	CFCD-05500	SW4	Surrounding sewerage, utility and process pipe works - Updated Process Pipes Arrangement		386, 298	28 days	Sat 29/10/22	Wed 30/11/22	Sat 29/10/22	Wed 30/11/22	424FS+34 days	47FF,621FF,622FF,620FF,508F	100%	
448	CFCD-06000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
449	**CFHB-00000**	*	**Fire Hydrant and Booster Pump Room (16)**			**904.8 days**	**Fri 16/7/21**	**Sat 10/8/24**	**Fri 16/7/21**	**NA**			**23%**	
455	CFHB-03000	KD3E	R.C. Structure & waterproofing works			39 days	Fri 13/1/23	Thu 2/3/23	NA	NA	454FS+1 day	456,42FF	0%	5
456	CFHB-04000	SW3	ABWF Works & BS Works			38 days	Fri 3/3/23	Thu 20/4/23	NA	NA	455,245SS,168SS	46FF	0%	
457	CFHB-04500	SW4	Surrounding sewerage, utility and process pipe works			60 days	Thu 25/8/22	Sat 5/11/22	Thu 25/8/22	Sat 5/11/22	368SS+15 days	47FF,621FF,622FF,620FF	100%	
458	CFHB-05000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
459	**CTFS-00000**	*	**Transformer and Switchroom (15)**			**904.8 days**	**Fri 16/7/21**	**Sat 10/8/24**	**Fri 16/7/21**	**NA**			**14%**	
465	CTFS-03000	KD3E	R.C. Structure			44 days	Thu 23/2/23	Wed 19/4/23	NA	NA	462,166,238,460,464	466,42FF	0%	5
466	CTFS-04000	SW3	ABWF Works & BS Works		(95)	4 days	Thu 20/4/23	Mon 24/4/23	NA	NA	465,245SS,168SS	46FF	0%	
467	CTFS-04500	SW4	Surrounding sewerage, utility and process pipe works			175 days	Thu 25/8/22	Mon 27/3/23	Thu 25/8/22	NA	368SS+15 days	47FF,621FF,622FF,620FF	34%	
468	CTFS-05000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
469	**CUC-00000**	*	**Utility Corridor (13)**		**204**	**520 days**	**Mon 31/10/22**	**Sat 10/8/24**	**Mon 31/10/22**	**NA**			**12%**	
478	CUC-03500	SW4	Surrounding sewerage, utility and process pipe works		248,205,207	30 days	Mon 22/5/23	Tue 27/6/23	NA	NA	474,340FS-35 days,475	47FF,621FF,622FF,488SS,620F	0%	
479	CUC-04000	SW5	Surrounding Site formation works and road works			180 days	Thu 21/12/23	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
480	**CWMC-00000**	*	**Water Meter Cabinet (11)**		**204**	**574.8 days**	**Thu 25/8/22**	**Sat 10/8/24**	**Thu 25/8/22**	**NA**			**21%**	
486	CWMC-04000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
487	**CGH-00000**	*	**Guard House (14)**			**904.8 days**	**Fri 16/7/21**	**Sat 10/8/24**	**Fri 16/7/21**	**NA**			**0%**	
492	CGH-03500	SW4	Surrounding sewerage, utility and process pipe works		205	46 days	Wed 22/2/23	Thu 20/4/23	NA	NA	340FS-28 days	620FF,621FF,622FF	0%	
493	CGH-04000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
494	**CCPS-00000**	*	**THP Coolers Pumping Station (21)**			**787.8 days**	**Fri 3/12/21**	**Sat 10/8/24**	**Fri 3/12/21**	**NA**			**55%**	



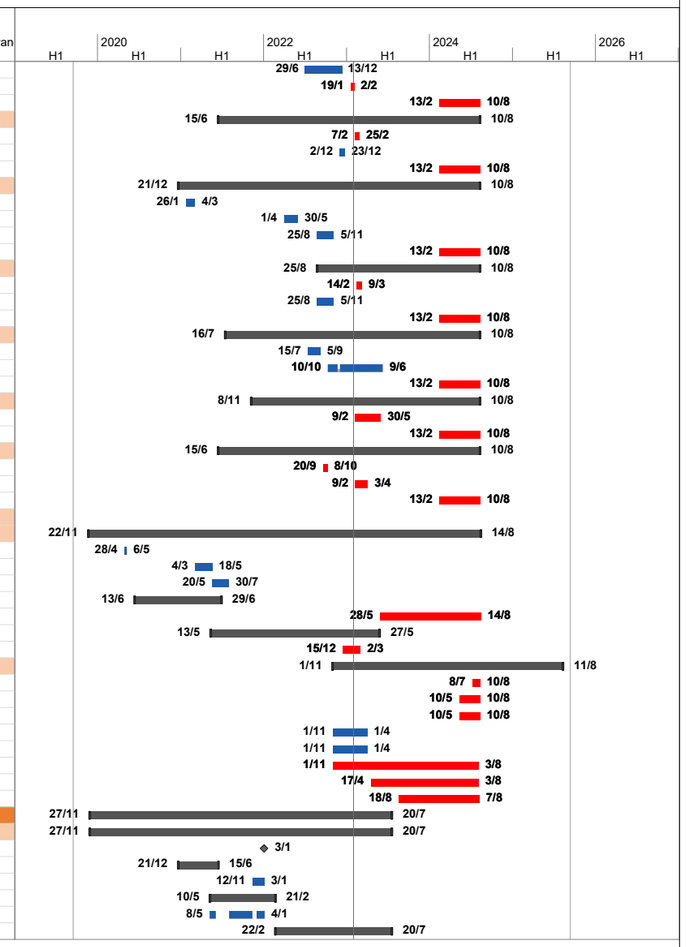
Critical Split | Task | Milestone | Summary | Critical

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

Executive Summary Programme (Status Date:20/2/2023)

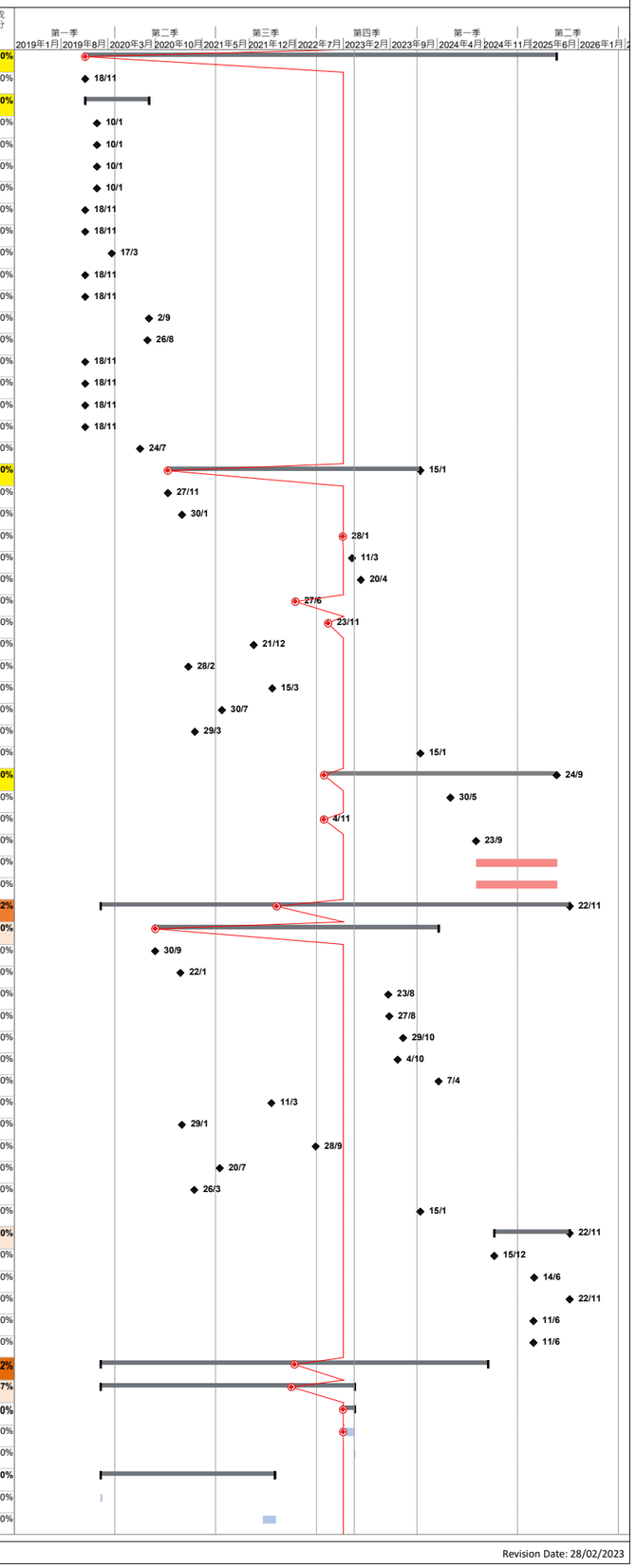
群利－俊和聯營體
KL－CW JV

ID	Activity ID	KD	Task Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	% Complete	Time Risk Allowan
498	CCPS-02000	KD3E	R.C. Structure			140 days	Wed 29/6/22	Tue 13/12/22	Wed 29/6/22	Tue 13/12/22	166,238,497SS-2 emons,496FS	499	100%	5
499	CCPS-02500	SW4	Surrounding sewerage, utility and process pipe works			10 days	Thu 19/1/23	Thu 2/2/23	NA	NA	498,388,340FS-54 days	47FF,620FF,621FF,622FF	0%	
500	CCPS-03000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	620FF,621FF,622FF	0%	
501	**CWGB-00000**	*	**Waste Gas Burner (8)**			**930.8 days**	**Tue 15/6/21**	**Sat 10/8/24**	**Tue 15/6/21**	**NA**			**13%**	
507	CWGB-03000	KD3E	R.C. Plinth			17 days	Tue 7/2/23	Sat 25/2/23	NA	NA	166,506SS-2 emons,503FS+30	42FF	0%	
508	CWGB-03500	SW4	Surrounding sewerage, utility and process pipe works			19 days	Fri 2/12/22	Fri 23/12/22	Fri 2/12/22	Fri 23/12/22	447FS+1 day	47FF,621FF,622FF,620FF,504F	100%	
509	CWGB-04000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
510	**CPSW-00000**	*	**Plant Services Water System (20)**			**1068.8 days**	**Mon 21/12/20**	**Sat 10/8/24**	**Mon 21/12/20**	**NA**			**50%**	
514	CPSW-03000	KD3E	Basement Construction @+1.20mPD - Change to Works Information (Basement)		*(136), (117)*	30 days	Tue 26/1/21	Thu 4/3/21	Tue 26/1/21	Thu 4/3/21	512,166,513SS-2 emons	42FF,515	100%	
515	CPSW-03500	SW3	ABWF Works & BS Works			60 days	Fri 1/4/22	Mon 30/5/22	Fri 1/4/22	Mon 30/5/22	514	46FF	100%	
516	CPSW-03600	SW4	Surrounding sewerage, utility and process pipe works - (Updated Process Pipe Arrangement)		*439,455*	60 days	Thu 25/8/22	Sat 5/11/22	Thu 25/8/22	Sat 5/11/22	368SS+2 days	47FF,621FF,622FF,620FF	100%	
517	CPSW-04000	SW5	Surrounding Site formation works and road works	338,(204),		180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
518	**CDS11-00000**	*	**Deodorization System No. 11 (18)**			**574.8 days**	**Thu 25/8/22**	**Sat 10/8/24**	**Thu 25/8/22**	**NA**			**23%**	
524	CDS11-03000	KD3E, SW3	R.C. Plinth			21 days	Tue 14/2/23	Thu 9/3/23	NA	NA	166,519SS-2 emons,523FS+1	42FF,481SS,46FF	0%	
525	CDS11-03500	SW4	Surrounding sewerage, utility and process pipe works			60 days	Thu 25/8/22	Sat 5/11/22	Thu 25/8/22	Sat 5/11/22	368SS+2 days	47FF,620FF,621FF,622FF	100%	
526	CDS11-04000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
527	**CBGH-00000**	*	**Biogas Holder (7)**			**904.8 days**	**Fri 16/7/21**	**Sat 10/8/24**	**Fri 16/7/21**	**NA**			**35%**	
531	CBGH-03000	KD3E, SW3	R.C. Plinth - Change to Works Information (Resize of Plinth)		481	45 days	Fri 15/7/22	Mon 5/9/22	Fri 15/7/22	Mon 5/9/22	529,166,530SS-2 emons,528FS	42FF,46FF,532	100%	
532	CBGH-03500	SW4	Surrounding sewerage, utility and process pipe works - update process pipe arrangement, Revised Plan for Pipe		262,297,248	196.8 days	Mon 10/10/22	Fri 9/6/23	Mon 10/10/22	NA	531,341SS+5 days	47FF,621FF,622FF,620FF	30%	
533	CBGH-04000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
534	**CH2S-00000**	*	**H2S Removal System (12)**			**809.8 days**	**Mon 8/11/21**	**Sat 10/8/24**	**Mon 8/11/21**	**NA**			**8%**	
540	CH2S-03500	SW4	Surrounding sewerage, utility and process pipe works	248		89 days	Thu 9/2/23	Tue 30/5/23	NA	NA	346FF	47FF,621FF,622FF,620FF,547S	0%	
541	CH2S-04000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
542	**CDS12-00000**	*	**Deodorization System No. 12 (19)**			**930.8 days**	**Tue 15/6/21**	**Sat 10/8/24**	**Tue 15/6/21**	**NA**			**4%**	
546	CDS12-03000	KD3E, SW3	R.C. Plinth			15 days	Tue 20/9/22	Sat 8/10/22	NA	NA	166,545SS-2 emons,544	42FF,46FF	0%	
547	CDS12-03500	SW4	Surrounding sewerage, utility and process pipe works			46 days	Thu 9/2/23	Mon 3/4/23	NA	NA	540SS	47FF,621FF,622FF,620FF	0%	
548	CDS12-04000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA	347FF	48FF,620FF,621FF,622FF	0%	
549	CUPH-00000	SW5	Underpass & Pump House			711 days	Thu 20/2/20	Sat 16/7/22	NA	NA		47FF	0%	
550	**CPWU-00000**	*	**Pipe Works and Utility Installation**			**1392.8 days**	**Fri 22/11/19**	**Wed 14/8/24**	**Fri 22/11/19**	**NA**			**57%**	
555	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		280	100%	
556	CPWU-01140	KD1A	Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng Drainage	338, (204),		60 days	Thu 4/3/21	Tue 18/5/21	Thu 4/3/21	Tue 18/5/21	292	557	100%	
557	CPWU-01150	SW1	Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng Drainage Cul			60 days	Thu 20/5/21	Fri 30/7/21	Thu 20/5/21	Fri 30/7/21	556	44FF	100%	
558	**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**		**47FF**	**100%**	
581	CPWU-01020	SW5	Surrounding Site formation works and road works			445 days	Sun 28/5/23	Wed 14/8/24	NA	NA	580,582	48FF	0%	
582	**CPWU-02160**	**SW4**	Cable & Other Underground Utility Pipeworks	**17, 21, 22,**	**(283)**	**604.8 days**	**Thu 13/5/21**	**Sat 27/5/23**	**Thu 13/5/21**	**NA**	**171,358,415**	**581,47FF**	**78%**	
618	CPWU-02200	SW4	Pipe Bridge No.1		297	60 days	Thu 15/12/22	Thu 2/3/23	NA	NA	366FS+120 days	614FF	0%	
619	**CRWL-00000**	*	**Remaining Works & Landscape Works**			**827 days**	**Tue 1/11/22**	**Mon 11/8/25**	**Tue 1/11/22**	**NA**			**0%**	
620	CRWL-01000	SW5	Irrigation System		218	30 days	Mon 8/7/24	Sat 10/8/24	NA	NA	174,302,346FF,347FF,372FF,3	48FF,50	0%	
621	CRWL-02000	SW5	Hard Landscape Works			77 days	Fri 10/5/24	Sat 10/8/24	NA	NA	174,302,346FF,372FF,392FF,4	48FF,50	0%	
622	CRWL-03000	SW5	Soft Landscape Works			77 days	Fri 10/5/24	Sat 10/8/24	NA	NA	174,302,346FF,372FF,392FF,4	628,48FF,50	0%	
623	CRWL-04000	SW5	Outfall for Effluent Pipes			124.2 days	Tue 1/11/22	Sat 1/4/23	Tue 1/11/22	NA	214	48FF	0%	
624	CRWL-05000	SW5	Slope Formation Works near Outfall			124.2 days	Tue 1/11/22	Sat 1/4/23	Tue 1/11/22	NA	214	48FF,626FF	0%	
625	CRWL-06000	SW5	Removal of invasive trees along River Embankment		(37)	512.2 days	Tue 1/11/22	Sat 3/8/24	Tue 1/11/22	NA	214	626FF	0%	
626	CRWL-07000	SW5	Retaining Wall along River Embankment, street furniture & road works			379 days	Mon 17/4/23	Sat 3/8/24	NA	NA	214,625FF,624FF	48FF	0%	
627	CRWL-08000	SW5	Remaining Site formation works, road works and boundary fence wall		(348), 299	280 days	Fri 18/8/23	Wed 7/8/24	NA	NA	46	48FF	0%	
629	**CWPA-00000**	*	**Construction of Portion A of the Site**			**1077 days**	**Wed 27/11/19**	**Thu 20/7/23**	**Wed 27/11/19**	**NA**			**86%**	
630	**C132S-00000**	*	**132kV Substation**			**1077 days**	**Wed 27/11/19**	**Thu 20/7/23**	**Wed 27/11/19**	**NA**			**86%**	
661	**C132SI-31000**	**KD2A**	**Allow for CLP to carry out E&M installation works**			**0 days**	**Mon 3/1/22**	**Mon 3/1/22**	**Mon 3/1/22**	**Mon 3/1/22**	**659,658,679**	**662SS-30 days,37FF,682**	**100%**	
664	**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**		**682**	**100%**	
673	C132SE-02030	KD2A	Backfilling and Reinstatement Works		(312), (332), (322)	42 days	Fri 12/11/21	Mon 3/1/22	Fri 12/11/21	Mon 3/1/22	672		100%	
674	C132SE-02040	KD2A	CLP Cable & Other Underground Utility Pipeworks			235 days	Mon 10/5/21	Mon 21/2/22	Mon 10/5/21	Mon 21/2/22		682	100%	
681	C132SE-03000	KD2A	Construction of New Boundary Wall		(155)	135 days	Sat 8/5/21	Tue 4/1/22	Sat 8/5/21	Tue 4/1/22	645	694	100%	
682	C132SE-04000	SW2	Remaining Works after allowing CLP Plant and Power Cables Installation			416 days	Tue 22/2/22	Thu 20/7/23	Tue 22/2/22	NA	662,660,661,664,669,674	45FF,694	43%	

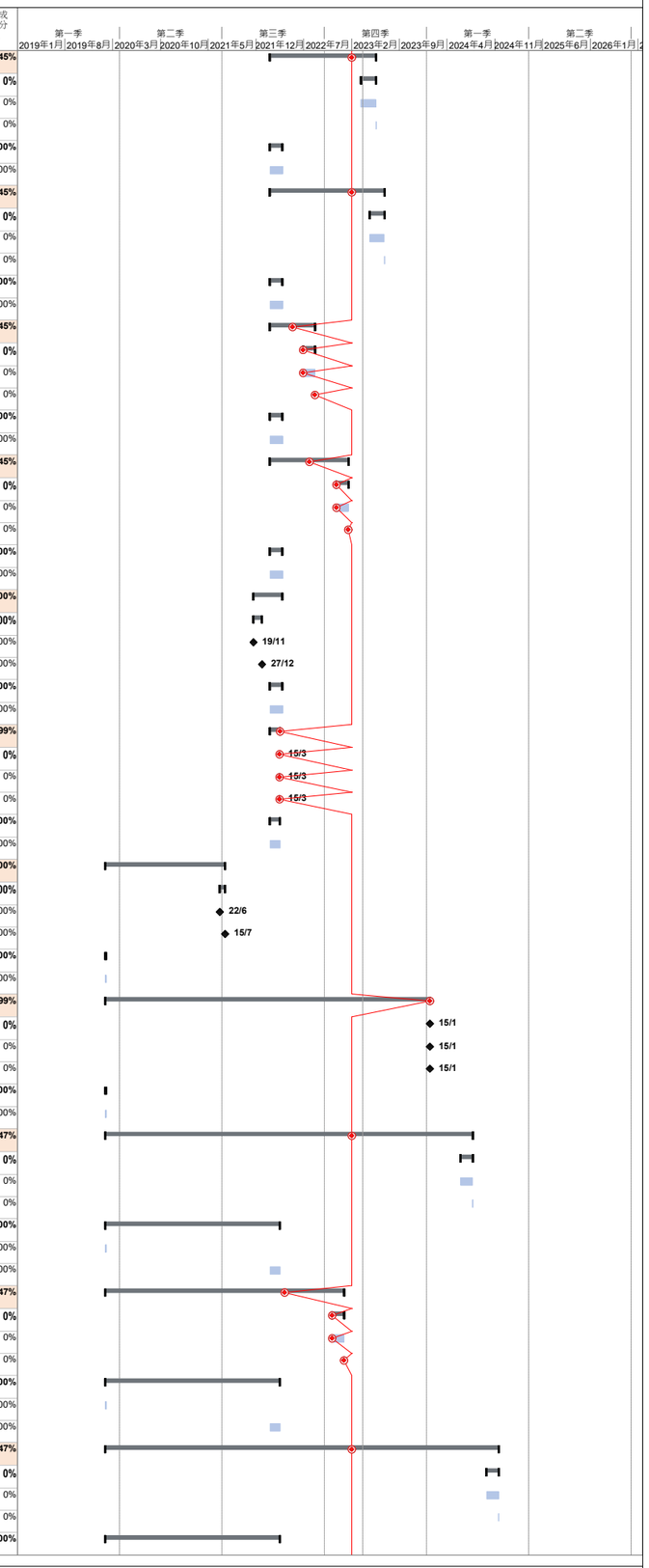


Critical Split | Task | Milestone | Summary | Critical

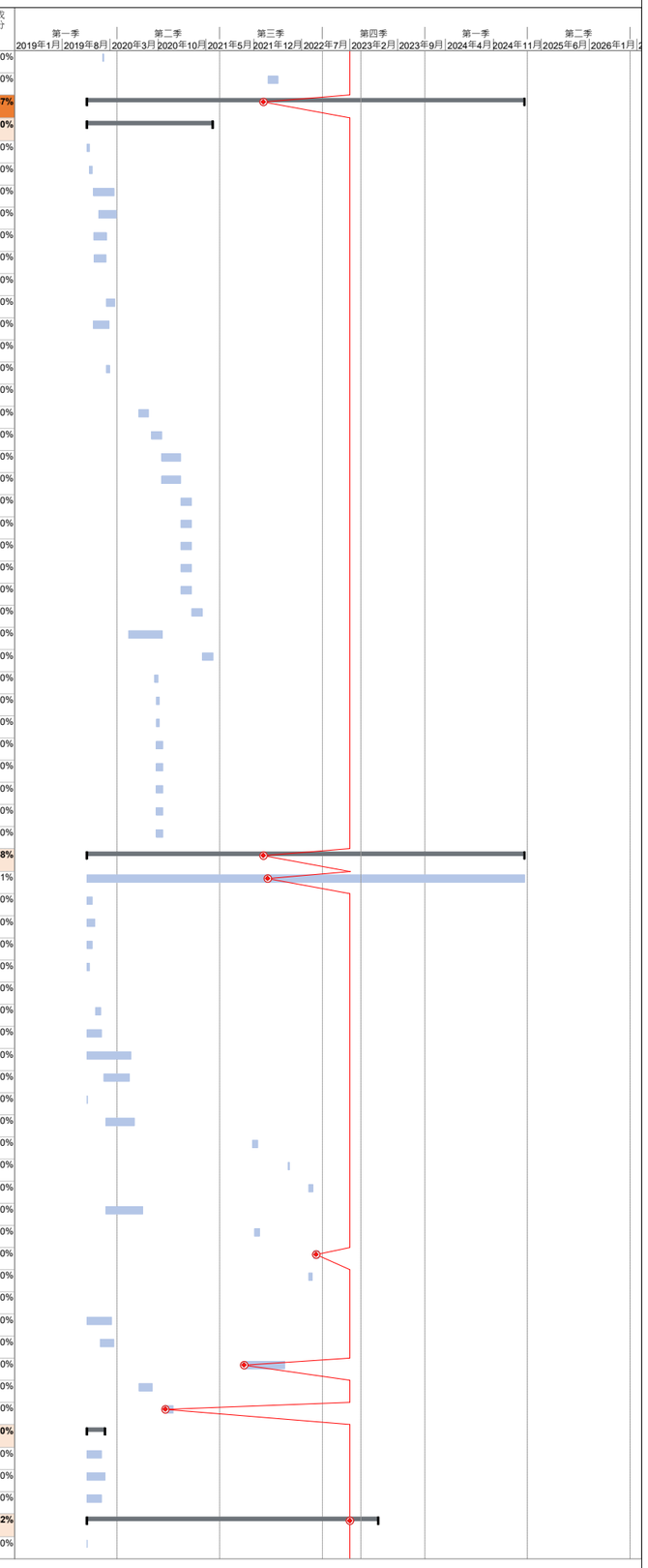
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Ris AII	完成百分比
1	**CD-1000**				**Contract Dates**	**1651.5 days**	**11月18日星期一**	**6月13日星期五**	**1747 days**	**11月18日星期一**	**9月24日星期三**	**月18日星期一11**	**NA**			**0 days**		**0%**
2	CD-1010				Starting Date	0 days	11月18日星期一	11月18日星期一	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一11		8,9,13FS+290 days,14FS+311 day	0 days		100%
3	**CAD-1000**				**Access Dates (cal. day)**	**289 days**	**11月18日星期一**	**9月2日星期三**	**289 days**	**11月18日星期一**	**9月2日星期三**	**月18日星期一11**	**月2日星期三9**			**0 days**		**100%**
4	CAD-1010				Portion B-1 (Access Road AR3)	0 days	1月10日星期五	1月10日星期五	0 days	1月10日星期五	1月10日星期五	月10日星期五1	月10日星期五12		223	0 days		100%
5	CAD-1020				Portion B-1A (Area for the works for Sidestream Treatment Facilities by Others	0 days	1月10日星期五	1月10日星期五	0 days	1月10日星期五	1月10日星期五	月10日星期五1	月10日星期五12			0 days		100%
6	CAD-1030				Portion B-2 (Inlet Works No.1)	0 days	1月10日星期五	1月10日星期五	0 days	1月10日星期五	1月10日星期五	月10日星期五1	月10日星期五12		322,334	0 days		100%
7	CAD-1040				Portion B-2A (Area for the pipe-jacking works by others)	0 days	1月10日星期五	1月10日星期五	0 days	1月10日星期五	1月10日星期五	月10日星期五1	月10日星期五12			0 days		100%
8	CAD-1050				Portion B-3 (Primary Sedimentation Tanks No. 1-4)	0 days	11月18日星期一	11月18日星期一	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一12		414	0 days		100%
9	CAD-1060				Portion B-4 (Bioreactor No. 2A & 2B)	0 days	11月18日星期一	11月18日星期一	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一12		494	0 days		100%
10	CAD-1070				Portion B-5 (Membrane Facilities Building No.2)	0 days	3月17日星期二	3月17日星期二	0 days	3月17日星期二	3月17日星期二	月17日星期二3	月17日星期二32		582,646,655	0 days		100%
11	CAD-1080				Portion B-6 (SAS Pumping Station)	0 days	11月18日星期一	11月18日星期一	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一12		736	0 days		100%
12	CAD-1090				Portion B-7 (Ancillary structures)	0 days	11月18日星期一	11月18日星期一	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一12		774	0 days		100%
13	CAD-1100				Portion B-7A (Alternation works for existing Power House)	0 days	9月2日星期三	9月2日星期三	0 days	9月2日星期三	9月2日星期三	月2日星期三9	月2日星期三92	FS+290 days	960FS-1 day,29FS+180 days	0 days		100%
14	CAD-1110				Portion B-8 (Alternation for existing Membrane Facilities Building No.1)	0 days	8月26日星期三	8月26日星期三	0 days	8月26日星期三	8月26日星期三	月26日星期三8	月26日星期三82	FS+311 days	962FS-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	11月18日星期一	11月18日星期一	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一12		953	0 days		100%
16	CAD-1130				Portion B-9 (remainder works in Zone B)	0 days	11月18日星期一	11月18日星期一	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一12		963,1912	0 days		100%
17	CAD-1140				Portion B-9A (Area for the pipe-jacking works by others)	0 days	11月18日星期一	11月18日星期一	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一12			0 days		100%
18	CAD-1150				Portion B-9B (Area for underground pipework modification and connection works by others)	0 days	11月18日星期一	11月18日星期一	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一12			0 days		100%
19	CAD-1160				Portion B-9C (Area for the works for pipe works)	0 days	7月24日星期五	7月24日星期五	0 days	7月24日星期五	7月24日星期五	月24日星期五7	月24日星期五72	FS+151 days	971	0 days		100%
20	**CKD-1000**				**Key Dates (cal. day)**	**1144 days**	**11月27日星期五**	**1月15日星期一**	**1145 days**	**11月27日星期五**	**1月15日星期一**	**月27日星期五11**	**NA**			**0 days**		**0%**
21	CKD-1010				KD1A completion of AR3 in Portion B-1	0 days	11月27日星期五	11月27日星期五	0 days	11月27日星期五	11月27日星期五	月27日星期五11	月27日星期五11	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	0 days	1月30日星期六	1月30日星期六	0 days	1月30日星期六	1月30日星期六	月30日星期六1	月30日星期六12	FS+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	0 days	10月22日星期六	10月22日星期六	0 days	1月28日星期六	1月28日星期六	NA	NA	2FS+1167.5 days,44FF	67,64	-207 days		0%
24	CKD-1040				KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3	0 days	2月20日星期一	2月20日星期一	0 days	3月11日星期六	3月11日星期六	NA	NA	2FS+1209.5 days,45FF	71	-169 days		0%
25	CKD-1050				KD1E completion of civil and structural works of Bioreactor in Portion B-4	0 days	1月1日星期日	1月1日星期日	0 days	4月20日星期四	4月20日星期四	NA	NA	2FS+1250 days,46FF	80,77	-192 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	0 days	3月23日星期三	3月23日星期三	0 days	6月27日星期一	6月27日星期一	NA	NA	2FS+952.5 days,47FF	86,83	-464 days		0%
27	CKD-1070				KD1G completion of civil and structural works of MFB in Portion B-5	0 days	8月17日星期三	8月17日星期三	0 days	11月23日星期三	11月23日星期三	NA	NA	2FS+1102 days,48FF	89	-501 days		0%
28	CKD-1080				KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6	0 days	10月22日星期五	10月22日星期五	0 days	12月21日星期二	12月21日星期二	月21日星期二12	月21日星期二12	2FS+764.5 days,49FF	95	0 days		100%
29	CKD-1090				KD1I completion alternation works for existing Power House in Portion B-7A	0 days	3月1日星期一	3月1日星期一	0 days	2月28日星期日	2月28日星期日	月28日星期日2	月28日星期日2	13FS+180 days		0 days		100%
30	CKD-1100				KD1J completion of auxiliary facilities in Portion B-7	0 days	2月7日星期一	2月7日星期一	0 days	3月15日星期二	3月15日星期二	月15日星期二3	月15日星期二32	FS+849 days,51FF	101	0 days		100%
31	CKD-1110				KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9	0 days	6月18日星期五	6月18日星期五	0 days	7月30日星期五	7月30日星期五	月30日星期五7	月30日星期五72	FS+621 days	107	0 days		100%
32	CKD-1120				KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A	0 days	3月26日星期五	3月26日星期五	0 days	3月29日星期一	3月29日星期一	月29日星期一3	月29日星期一32	FS+498 days		0 days		100%
33	CKD-1130				KD3A completion of all utilities and road works in Portion B-9A	0 days	1月15日星期一	1月15日星期一	0 days	1月15日星期一	1月15日星期一	NA	NA	2FS+1520 days,54FF	113	0 days		0%
34	**CCD-1000**				**Completion Date (cal. Day)**	**1056 days**	**7月23日星期六**	**6月13日星期五**	**1055 days**	**11月4日星期五**	**9月24日星期三**	**NA**	**NA**			**0 days**		**0%**
35	CCD-1010				Section 1 of the Works	0 days	2月9日星期五	2月9日星期五	0 days	5月30日星期四	5月30日星期四	NA	NA	2FS+1655.5 days,56FF	119	-199 days		0%
36	CCD-1020				Section 2 of the Works	0 days	7月23日星期六	7月23日星期六	0 days	11月4日星期五	11月4日星期五	NA	NA	2FS+1082.5 days,57FF	126	-953 days		0%
37	CCD-1030				Section 3 of the Works	0 days	6月12日星期三	6月12日星期三	0 days	9月23日星期一	9月23日星期一	NA	NA	2FS+1771.5 days,58FF	39FS+1 day,38FS+1 day,133	-425 days		0%
38	CCD-1040				Defects Liability Period	365 days	6月13日星期四	6月13日星期五	365 days	9月25日星期三	9月24日星期三	NA	NA	37FS+1 day,59FF		0 days		0%
39	CCD-1050				Landscape Establishment Works	365 days	6月13日星期四	6月13日星期五	365 days	9月25日星期三	9月24日星期三	NA	NA	37FS+1 day,60FF		0 days		0%
40	**PD-1000**	*			**Planned Completion**	**2049 days**	**9月30日星期三**	**5月11日星期一**	**2126 days**	**1月28日星期二**	**11月22日星期六**	**月28日星期二1**	**NA**			**0 days**		**52%**
41	**PCD-1000**	*			**Planned Completion - Key Dates (cal. day)**	**1202 days**	**9月30日星期三**	**1月15日星期一**	**1285 days**	**9月30日星期三**	**4月7日星期日**	**月30日星期三9**	**NA**			**-83 days**		**0%**
42	PKD-1010	KD1A			KD1A completion of AR3 in Portion B-1	0 days	9月30日星期三	9月30日星期三	0 days	9月30日星期三	9月30日星期三	月30日星期三9	月30日星期三92	32FF		0 days		100%
43	PCD-1020	KD1B			KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2	0 days	1月22日星期五	1月22日星期五	0 days	1月22日星期五	1月22日星期五	月22日星期五1	月22日星期五12	15FF,297FF		0 days		100%
44	PCD-1030	KD1C			KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2	0 days	12月1日星期四	12月1日星期四	0 days	8月23日星期三	8月23日星期三	NA	NA	272FF,319FF,234FF,274	23FF	-207 days		0%
45	PCD-1040	KD1D			KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3	0 days	2月20日星期一	2月20日星期一	0 days	8月27日星期日	8月27日星期日	NA	NA	483FF	24FF	-188 days		0%
46	PCD-1050	KD1E			KD1E completion of civil and structural works of Bioreactor in Portion B-4	0 days	6月26日星期一	6月26日星期一	0 days	10月29日星期日	10月29日星期日	NA	NA	570FF,562FF,564FF	25FF	-192 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	0 days	9月17日星期六	9月17日星期六	0 days	10月4日星期三	10月4日星期三	NA	NA	722FF,681FF	26FF	-464 days		0%
48	PCD-1070	KD1G			KD1G completion of civil and structural works of MFB in Portion B-5	0 days	1月16日星期一	1月16日星期一	0 days	4月7日星期日	4月7日星期日	NA	NA	723FF	27FF	-501 days		0%
49	PCD-1080	KD1H			KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6	0 days	1月7日星期五	1月7日星期五	0 days	3月11日星期五	3月11日星期五	月11日星期五3	月11日星期五32	61FF,759FF	28FF	0 days		100%
50	PCD-1090	KD1I			KD1I completion alternation works for existing Power House in Portion B-7A	0 days	1月29日星期五	1月29日星期五	0 days	1月29日星期五	1月29日星期五	月29日星期五1	月29日星期五12	960FF		0 days		100%
51	PCD-1100	KD1J			KD1J completion of auxiliary facilities in Portion B-7	0 days	7月11日星期一	7月11日星期一	0 days	9月28日星期三	9月28日星期三	月28日星期三9	月28日星期三92	93FF,892FF,917FF,900	30FF	0 days		100%
52	PCD-1110	KD2A			KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9	0 days	7月20日星期二	7月20日星期二	0 days	7月20日星期二	7月20日星期二	月20日星期二7	月20日星期二72	66FF,964FF		0 days		100%
53	PCD-1120	KD2B			KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A	0 days	3月26日星期五	3月26日星期五	0 days	3月26日星期五	3月26日星期五	月26日星期五3	月26日星期五32	53FF,957FF,958FF,959		0 days		100%
54	PCD-1130	KD3A			KD3A completion of all utilities and road works in Portion B-9A	0 days	1月15日星期一	1月15日星期一	0 days	1月15日星期一	1月15日星期一	NA	NA	962FF,961FF,1055FF	33FF	0 days		0%
55	**PCD-1000**	*			**Planned Completion Date (cal. Day)**	**1077 days**	**6月30日星期四**	**6月11日星期三**	**342 days**	**12月15日星期日**	**11月22日星期六**	**NA**	**NA**			**-772 days**		**0%**
56	PCD-1010	SW1			Section 1 of the Works	0 days	1月19日星期五	1月19日星期五	0 days	12月15日星期日	12月15日星期日	NA	NA	949FF,951FF,764FF,879	35FF	-199 days		0%
57	PCD-1020	SW2			Section 2 of the Works	0 days	6月30日星期四	6月30日星期四	0 days	6月14日星期六	6月14日星期六	NA	NA	980FF,1014FF,1024FF,1	36FF	-953 days		0%
58	PCD-1030	SW3			Section 3 of the Works	0 days	6月11日星期二	6月11日星期二	0 days	11月22日星期六	11月22日星期六	NA	NA	1914FF,1915FF,962FF,9	37FF	-425 days		0%
59	PCD-1040	DLP			Defects Liability Period	0 days	6月11日星期三	6月11日星期三	0 days	6月11日星期三	6月11日星期三	NA	NA	1916FF,173FF	38FF	105 days		0%
60	PCD-1050				Landscape Establishment Works	0 days	6月11日星期三	6月11日星期三	0 days	6月11日星期三	6月11日星期三	NA	NA	1916FF	39FF	105 days		0%
61	**ET-1000**				**Effects from Inclement Weather and Other Time Affected Events**	**1158.5 days**	**6月18日星期五**	**8月19日星期日**	**1756 days**	**1月28日星期二**	**11月17日星期五**	**月28日星期二1**	**NA**			**370 days**		**52%**
62	**ET1C-1000**				**Effects to KD1C**	**58.5 days**	**10月22日星期六**	**12月19日星期一**	**1152 days**	**1月28日星期二**	**3月24日星期五**	**月28日星期二1**	**NA**			**974 days**		**47%**
63	**ET1C-1100**				**Inclement Weather to KD1C (cal. Day)**	**54.5 days**	**10月26日星期三**	**12月19日星期一**	**55 days**	**1月29日星期四**	**3月24日星期五**	**NA**	**NA**			**974 days**		**0%**
64	ET1C-1110		421,429,		Delay and Disruption of Works before February 2023	31.5 days	10月26日星期三	11月26日星期六	53 days	1月29日星期日	3月22日星期三	NA	NA	23	65	974 days		0%
65	ET1C-1120				Delay and Disruption of Works in February 2023	23 days	11月27日星期日	12月19日星期一	2 days	3月23日星期四	3月24日星期五	NA	NA	64		974 days		0%
66	**ET1C-1200**				**Other Events to KD1C (not all)**	**4 days**	**10月22日星期六**	**10月26日星期三**	**791 days**	**1月28日星期二**	**3月28日星期一**	**月28日星期二1**	**月28日星期一3**			**0 days**		**100%**
67	ET1C-1210		9		Special working arrangement due to COVID-19 in January 2020	4 days	10月22日星期六	10月26日星期三	4 days	1月28日星期二	1月31日星期五	月28日星期二1	月31日星期五12	23		0 days		100%
68	ET1C-1220		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月28日星期一	月1日星期二2	月28日星期一3			0 days		100%



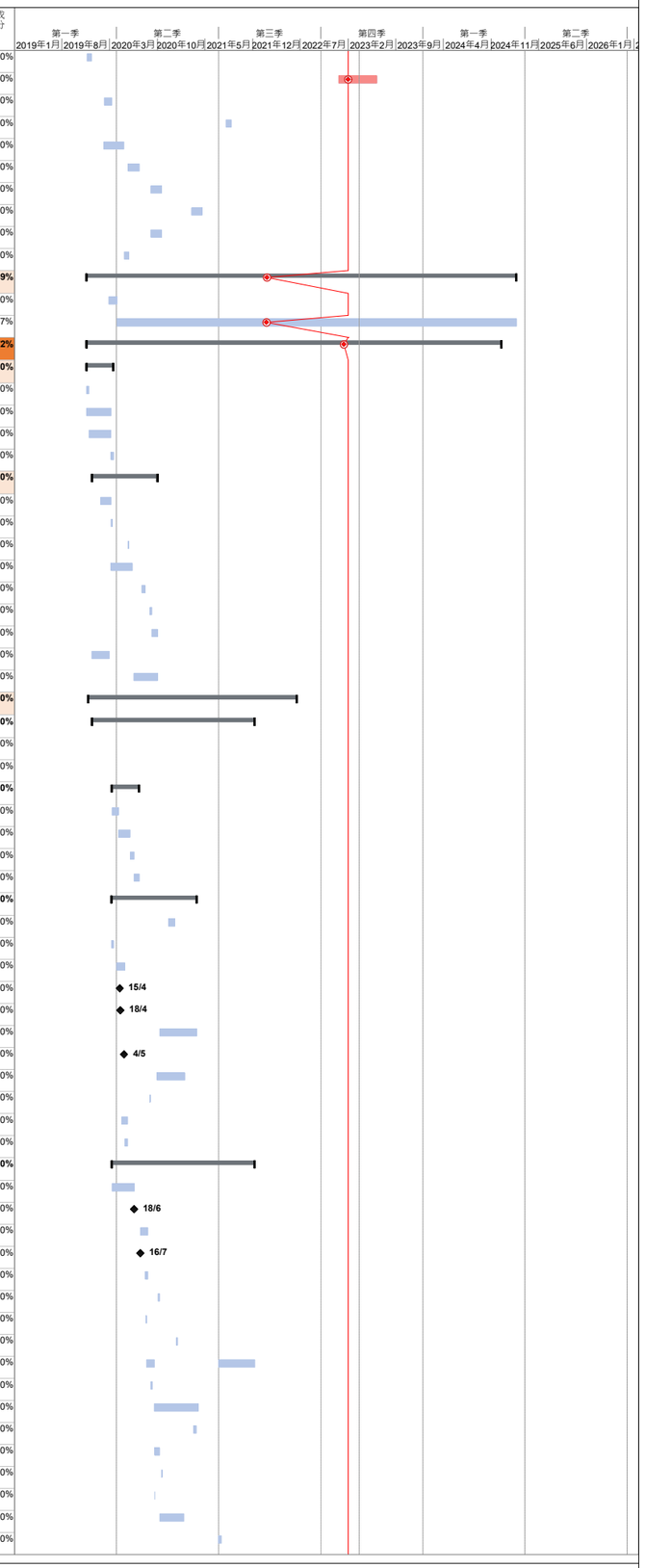
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
69	**ET1D-1000**				**Effects to KD1D**	**0 days**	**2月20日星期一**	**2月20日星期一**	**382 days**	**2月1日星期二**	**5月20日星期六**	**月1日星期二2**	**NA**			**761 days**		**45%**
70	**ET1D-1100**				**Inclement Weather to KD1D (cal. Day)**	**0 days**	**2月20日星期**	**2月20日星期**	**55 days**	**3月13日星期**	**5月20日星期**	**NA**	**NA**			**761 days**		**0%**
71	ET1D-1110		421,429,		Delay and Disruption of Works before February 2023	0 days	2月20日星期一	2月20日星期一	53 days	3月13日星期一	5月18日星期四	NA	NA	24	72	761 days		0%
72	ET1D-1120				Delay and Disruption of Works in February 2023	0 days	NA	2月20日星期一	2 days	5月19日星期五	5月20日星期六	NA	NA	71		761 days		0%
73	**ET1D-1200**				**Other Events to KD1D (not all)**	**0 days**	**NA**	**NA**	**45 days**	**2月1日星期二**	**3月28日星期一**	**月1日星期二2**	**月28日星期一3**			**0 days**		**100%**
74	ET1D-1210		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月28日星期一	月1日星期二2	月28日星期一3			0 days		100%
75	**ET1E-1000**				**Effects to KD1E**	**57.5 days**	**1月3日星期二**	**3月14日星期二**	**412 days**	**2月1日星期二**	**6月27日星期二**	**月1日星期二2**	**NA**			**731 days**		**45%**
76	**ET1E-1100**				**Inclement Weather to KD1E (cal. Day)**	**57.5 days**	**1月3日星期二**	**3月14日星期**	**55 days**	**4月21日星期**	**6月27日星期**	**NA**	**NA**			**731 days**		**0%**
77	ET1E-1110		421,429,		Delay and Disruption of Works before February 2023	36.5 days	1月3日星期二	2月17日星期五	53 days	4月21日星期五	6月24日星期六	NA	NA	25	78	731 days		0%
78	ET1E-1120				Delay and Disruption of Works in February 2023	21 days	2月17日星期五	3月14日星期二	2 days	6月26日星期一	6月27日星期二	NA	NA	77		731 days		0%
79	**ET1E-1200**				**Other Events to KD1E (not all)**	**0 days**	**NA**	**NA**	**45 days**	**2月1日星期二**	**3月28日星期一**	**月1日星期二2**	**月28日星期一3**			**0 days**		**100%**
80	ET1E-1210		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月28日星期一	月1日星期二2	月28日星期一3	25		0 days		100%
81	**ET1F-1000**				**Effects to KD1F**	**64.5 days**	**3月23日星期三**	**5月26日星期四**	**202 days**	**2月1日星期二**	**8月21日星期日**	**月1日星期二2**	**NA**			**1189 da...**		**45%**
82	**ET1F-1100**				**Inclement Weather to KD1F (cal. Day)**	**64.5 days**	**3月23日星期**	**5月26日星期**	**55 days**	**6月28日星期**	**8月21日星期**	**NA**	**NA**			**1189 da...**		**0%**
83	ET1F-1110		421,429,		Delay and Disruption of Works before February 2023	43.5 days	3月23日星期三	5月5日星期四	53 days	6月28日星期二	8月19日星期五	NA	NA	26	84	1189 days		0%
84	ET1F-1120				Delay and Disruption of Works in February 2023	21 days	5月6日星期五	5月26日星期四	2 days	8月20日星期六	8月21日星期日	NA	NA	83		1189 days		0%
85	**ET1F-1200**				**Other Events to KD1F (not all)**	**0 days**	**NA**	**NA**	**45 days**	**2月1日星期二**	**3月28日星期一**	**月1日星期二2**	**月28日星期一3**			**0 days**		**100%**
86	ET1F-1210		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月28日星期一	月1日星期二2	月28日星期一3	26		0 days		100%
87	**ET1G-1000**				**Effects to KD1G**	**61.5 days**	**8月17日星期三**	**10月17日星期一**	**351 days**	**2月1日星期二**	**1月17日星期二**	**月1日星期二2**	**NA**			**1040 da...**		**45%**
88	**ET1G-1100**				**Inclement Weather to KD1G (cal. Day)**	**61.5 days**	**8月17日星期**	**10月17日星期**	**55 days**	**11月24日星期**	**1月17日星期**	**NA**	**NA**			**1040 da...**		**0%**
89	ET1G-1110		421,429,		Delay and Disruption of Works before February 2023	40.5 days	8月17日星期三	9月26日星期一	53 days	11月24日星期四	1月15日星期日	NA	NA	27	90	1040 days		0%
90	ET1G-1120				Delay and Disruption of Works in February 2023	21 days	9月27日星期二	10月17日星期一	2 days	1月16日星期一	1月17日星期二	NA	NA	89		1040 days		0%
91	**ET1G-1200**				**Other Events to KD1G (not all)**	**0 days**	**NA**	**NA**	**45 days**	**2月1日星期二**	**3月28日星期一**	**月1日星期二2**	**月28日星期一3**			**0 days**		**100%**
92	ET1G-1210		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月28日星期一	月1日星期二2	月28日星期一3			0 days		100%
93	**ET1H-1000**				**Effects to KD1H**	**52.5 days**	**10月22日星期五**	**12月13日星期一**	**130 days**	**11月19日星期五**	**3月28日星期一**	**月19日星期五11**	**月28日星期一3**			**0 days**		**100%**
94	**ET1H-1100**				**Inclement Weather to KD1H (cal. Day)**	**52.5 days**	**10月22日星期**	**12月13日星期**	**39 days**	**11月19日星期**	**12月27日星期**	**月19日星期五11**	**月27日星期一12**			**0 days**		**100%**
95	ET1H-1110		421,429,		Delay and Disruption of Works before February 2023	39.5 days	10月22日星期五	11月30日星期二	0 days	11月19日星期五	11月19日星期五	月19日星期五11	月19日星期五11	28	96	0 days		100%
96	ET1H-1120				Delay and Disruption of Works in February 2023	13 days	12月1日星期三	12月13日星期一	0 days	12月27日星期一	12月27日星期一	月27日星期一12	月27日星期一12	95		0 days		100%
97	**ET1H-1200**				**Other Events to KD1H (not all)**	**0 days**	**NA**	**NA**	**45 days**	**2月1日星期二**	**3月28日星期一**	**月1日星期二2**	**月28日星期一3**			**0 days**		**100%**
98	ET1H-1210		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月28日星期一	月1日星期二2	月28日星期一3			0 days		100%
99	**ET1J-1000**				**Effects to KD1J**	**57 days**	**2月7日星期一**	**4月5日星期二**	**45 days**	**2月1日星期二**	**3月17日星期四**	**月1日星期二2**	**NA**			**1346 da...**		**99%**
100	**ET1J-1100**				**Inclement Weather to KD1J (cal. Day)**	**57 days**	**2月7日星期**	**4月5日星期二**	**0 days**	**3月15日星期**	**3月15日星期**	**NA**	**NA**			**1349 da...**		**0%**
101	ET1J-1110		421,429,		Delay and Disruption of Works before February 2023	33 days	2月7日星期一	3月12日星期六	0 days	3月15日星期二	3月15日星期二	NA	NA	30	102	1349 days		0%
102	ET1J-1120				Delay and Disruption of Works in February 2023	24 days	3月12日星期六	4月5日星期二	0 days	3月15日星期二	3月15日星期二	NA	NA	101		1349 days		0%
103	**ET1J-1200**				**Other Events to KD1J**	**0 days**	**NA**	**NA**	**36 days**	**2月1日星期二**	**3月17日星期四**	**月1日星期二2**	**月17日星期四3**			**0 days**		**100%**
104	ET1J-1210		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月17日星期四	月1日星期二2	月17日星期四3			0 days		100%
105	**ET2A-1000**				**Effects to KD2A**	**44.5 days**	**6月18日星期五**	**8月1日星期日**	**534.5 days**	**1月28日星期二**	**7月15日星期四**	**月28日星期二1**	**月15日星期四7**			**0 days**		**100%**
106	**ET2A-1100**				**Inclement Weather to KD2A (cal. Day)**	**40.5 days**	**6月22日星期**	**8月1日星期日**	**23 days**	**6月22日星期**	**7月15日星期**	**月22日星期二6**	**月15日星期四7**			**0 days**		**100%**
107	ET2A-1110				Delay and Disruption of Works before February 2023	40.5 days	6月22日星期二	8月1日星期日	0 days	6月22日星期二	6月22日星期二	月22日星期二6	月22日星期二6	31	108	0 days		100%
108	ET2A-1120				Delay and Disruption of Works in February 2023	16 days	7月15日星期四	7月31日星期六	0 days	7月15日星期四	7月15日星期四	月15日星期四7	月15日星期四7	107		0 days		100%
109	**ET2A-1200**				**Other Events to KD2A (not all)**	**4 days**	**6月18日星期五**	**6月22日星期二**	**4 days**	**1月28日星期二**	**1月31日星期五**	**月28日星期二1**	**月31日星期五1**			**0 days**		**100%**
110	ET2A-1210		9		Special working arrangement due to COVID-19 in January 2020	4 days	6月18日星期五	6月22日星期二	4 days	1月28日星期二	1月31日星期五	月28日星期二1	月31日星期五1			0 days		100%
111	**ET3A-1000**				**Effects to KD3A**	**4 days**	**1月16日星期二**	**1月19日星期五**	**1449 days**	**1月28日星期二**	**1月15日星期一**	**月28日星期二1**	**NA**			**677 days**		**99%**
112	**ET3A-1100**				**Inclement Weather to KD3A (cal. Day)**	**0 days**	**1月19日星期**	**1月19日星期**	**0 days**	**1月15日星期**	**1月15日星期**	**NA**	**NA**			**677 days**		**0%**
113	ET3A-1110				Delay and Disruption of Works before February 2023	0 days	1月19日星期五	1月19日星期五	0 days	1月15日星期一	1月15日星期一	NA	NA	33	114	677 days		0%
114	ET3A-1120				Delay and Disruption of Works in February 2023	0 days	1月19日星期五	1月19日星期五	0 days	1月15日星期一	1月15日星期一	NA	NA	113		677 days		0%
115	**ET3A-1200**				**Other Events to KD3A (not all)**	**4 days**	**1月16日星期二**	**1月19日星期五**	**4 days**	**1月28日星期二**	**1月31日星期五**	**月28日星期二1**	**月31日星期五1**			**0 days**		**100%**
116	ET3A-1210		9		Special working arrangement due to COVID-19 in January 2020	4 days	1月16日星期二	1月19日星期五	4 days	1月28日星期二	1月31日星期五	月28日星期二1	月31日星期五1			0 days		100%
117	**ETS1-1000**				**Effects to Section 1 of the Works**	**71.5 days**	**2月9日星期五**	**4月20日星期六**	**1640 days**	**1月28日星期二**	**7月24日星期三**	**月28日星期二1**	**NA**			**486 days**		**47%**
118	**ETS1-1100**				**Inclement Weather to Section 1 of the Works (cal. Day)**	**67.5 days**	**2月13日星期**	**4月20日星期**	**55 days**	**5月31日星期**	**7月24日星期**	**NA**	**NA**			**486 days**		**0%**
119	ETS1-1110		421,429,		Delay and Disruption of Works before February 2023	43.5 days	2月13日星期二	3月27日星期三	53 days	5月31日星期五	7月22日星期一	NA	NA	35	120	486 days		0%
120	ETS1-1120				Delay and Disruption of Works in February 2023	24 days	3月28日星期四	4月20日星期六	2 days	7月23日星期二	7月24日星期三	NA	NA	119		486 days		0%
121	**ETS1-1200**				**Other Events to Section 1 of the Works (not all)**	**4 days**	**2月9日星期五**	**2月13日星期二**	**780 days**	**1月28日星期二**	**3月17日星期四**	**月28日星期二1**	**月17日星期四3**			**0 days**		**100%**
122	ETS1-1210		9		Special working arrangement due to COVID-19 in January 2020	4 days	2月9日星期五	2月13日星期二	4 days	1月28日星期二	1月31日星期五	月28日星期二1	月31日星期五1			0 days		100%
123	ETS1-1220		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月17日星期四	月1日星期二2	月17日星期四3			0 days		100%
124	**ETS2-1000**				**Effects to Section 2 of the Works**	**67.5 days**	**7月23日星期六**	**9月28日星期三**	**1067 days**	**1月28日星期二**	**12月29日星期四**	**月28日星期二1**	**NA**			**1059 da...**		**47%**
125	**ETS2-1100**				**Inclement Weather to Section 2 of the Works (cal. Day)**	**63.5 days**	**7月27日星期**	**9月28日星期**	**55 days**	**11月5日星期**	**12月29日星期**	**NA**	**NA**			**1059 da...**		**0%**
126	ETS2-1110		421,429,		Delay and Disruption of Works before February 2023	39.5 days	7月27日星期三	9月4日星期日	53 days	11月5日星期六	12月27日星期二	NA	NA	36	127	1059 days		0%
127	ETS2-1120				Delay and Disruption of Works in February 2023	24 days	9月5日星期一	9月28日星期三	2 days	12月28日星期三	12月29日星期四	NA	NA	126		1059 days		0%
128	**ETS2-1200**				**Other Events to Section 2 of the Works (not all)**	**4 days**	**7月23日星期六**	**7月27日星期三**	**780 days**	**1月28日星期二**	**3月17日星期四**	**月28日星期二1**	**月17日星期四3**			**0 days**		**100%**
129	ETS2-1210		9		Special working arrangement due to COVID-19 in January 2020	4 days	7月23日星期六	7月27日星期三	4 days	1月28日星期二	1月31日星期五	月28日星期二1	月31日星期五1			0 days		100%
130	ETS2-1220		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月17日星期四	月1日星期二2	月17日星期四3			0 days		100%
131	**ETS3-1000**				**Effects to Section 3 of the Works**	**68.5 days**	**6月12日星期三**	**8月19日星期一**	**1756 days**	**1月28日星期二**	**11月17日星期日**	**月28日星期二1**	**NA**			**370 days**		**47%**
132	**ETS3-1100**				**Inclement Weather to Section 3 of the Works (cal. Day)**	**64.5 days**	**6月16日星期**	**8月19日星期**	**55 days**	**9月24日星期**	**11月17日星期**	**NA**	**NA**			**370 days**		**0%**
133	ETS3-1110		421,429,		Delay and Disruption of Works before February 2023	40.5 days	6月16日星期日	7月26日星期五	53 days	9月24日星期二	11月15日星期五	NA	NA	37	134	370 days		0%
134	ETS3-1120				Delay and Disruption of Works in February 2023	24 days	7月27日星期六	8月19日星期一	2 days	11月16日星期六	11月17日星期日	NA	NA	133		370 days		0%
135	**ETS3-1200**				**Other Events to Section 3 of the Works (not all)**	**4 days**	**6月12日星期三**	**6月16日星期日**	**780 days**	**1月28日星期二**	**3月17日星期四**	**月28日星期二1**	**月17日星期四3**			**0 days**		**100%**



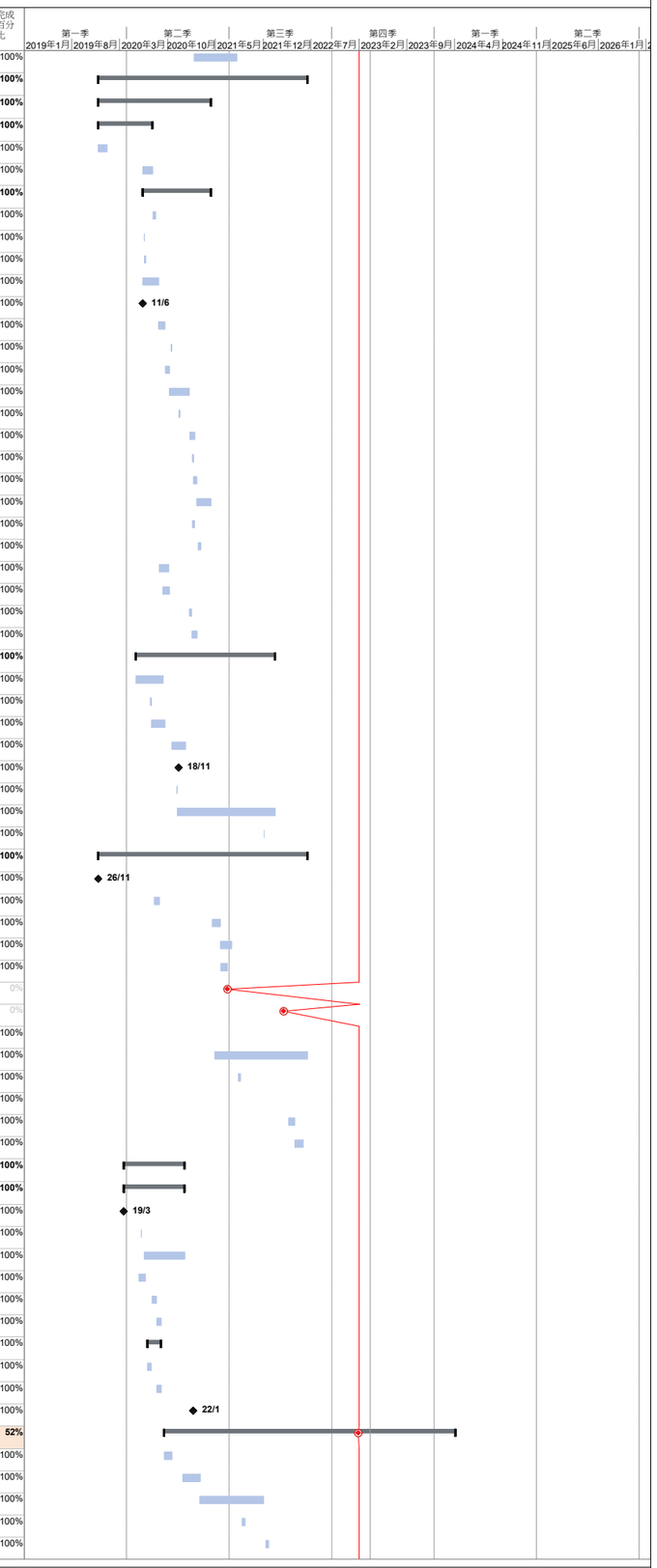
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
136	ETS3-1210		9		Special working arrangement due to COVID-19 in January 2020	4 days	6月12日星期三	6月16日星期日	4 days	1月28日星期二	1月31日星期五	月28日星期二1	月31日星期五1			0 days		100%
137	ETS3-1220		293		Special working arrangement due to 5th Wave of COVID-19 between Feb-May 2022	0 days	NA	NA	45 days	2月1日星期二	3月17日星期四	月1日星期二2	月17日星期四3			0 days		100%
138	**SUB-1000**				**Submissions (cal.day)**	**1956 days**	**11月18日星期一**	**3月26日星期三**	**1948 days**	**11月18日星期一**	**3月18日星期二**	**月18日星期一11**	**NA**			**249 days**		**67%**
139	**SUBS-1000**				**Subletting Package**	**562 days**	**11月18日星期一**	**6月1日星期二**	**562 days**	**11月18日星期一**	**6月1日星期二**	**月18日星期一11**	**月1日星期二6**			**0 days**		**100%**
140	SUBS-1010				Prepare & submit subletting procedure	12 days	11月18日星期一	11月29日星期五	12 days	11月18日星期一	11月29日星期五	月18日星期一11	月29日星期五11	2	141	0 days		100%
141	SUBS-1020				PM review and accept subletting procedure	12 days	11月30日星期六	12月11日星期三	12 days	11月30日星期六	12月11日星期三	月30日星期六11	月11日星期三12	140	162,142,145,144,143	0 days		100%
142	SUBS-1030				Subletting for demolition works	93 days	12月17日星期二	3月18日星期三	93 days	12月17日星期二	3月18日星期三	月17日星期二12	月18日星期三3	141,174	423,775,322,582,960,500,424	0 days		100%
143	SUBS-1040				Subletting for UU diversion for Inlet Works No.1	78 days	1月10日星期五	3月27日星期五	78 days	1月10日星期五	3月27日星期五	月10日星期五1	月27日星期五3	141	234	0 days		100%
144	SUBS-1050				Subletting for Inspection pit excavation	56 days	12月19日星期四	2月12日星期三	56 days	12月19日星期四	2月12日星期三	月19日星期四12	月12日星期二2	141,174	236,146	0 days		100%
145	SUBS-1060				Subletting for Preliminary Works (topographic surveying)	54 days	12月20日星期五	2月11日星期二	54 days	12月20日星期五	2月11日星期二	月20日星期五12	月11日星期二2	141,174	179,220,149,150,151,147	0 days		100%
146	SUBS-1070				Subletting for AR3 access road	0 days	12月13日星期五	2月11日星期二	0 days	12月13日星期五	12月13日星期五	月13日星期五12	月13日星期五12	144	147,232	0 days		100%
147	SUBS-1080				Subletting for pre-drilling works	38 days	2月6日星期四	3月20日星期五	38 days	2月6日星期四	3月20日星期五	月6日星期四2	月20日星期五3	145,146	427,625,148,753	0 days		100%
148	SUBS-1090				Subletting for Contractor designer for temporary works and ICE	71 days	12月16日星期一	2月24日星期一	71 days	12月16日星期一	2月24日星期一	月16日星期一12	月24日星期一2	147		0 days		100%
149	SUBS-1100				Subletting for independent BIM consultant	0 days	12月11日星期三	1月23日星期四	0 days	12月11日星期三	12月11日星期三	月11日星期三12	月11日星期三12	145	215	0 days		100%
150	SUBS-1110				Subletting for independent BIM services	15 days	1月14日星期二	2月26日星期三	15 days	1月14日星期二	2月26日星期三	月14日星期二1	月26日星期三2	145	215	0 days		100%
151	SUBS-1120				Subletting for Design, Supply & Install of Temporary Activated Carbon Deodorization Units (E&M Works)	0 days	12月13日星期五	2月11日星期二	0 days	12月13日星期五	12月13日星期五	月13日星期五12	月13日星期五12	145	152,153	0 days		100%
152	SUBS-1130				Subletting for pre-bored H pile works	45 days	7月5日星期日	8月18日星期二	45 days	7月5日星期日	8月18日星期二	月5日星期日7	月18日星期二8	151	431,754,337	0 days		100%
153	SUBS-1140				Subletting for Sheetpile installation works	45 days	9月1日星期二	10月15日星期四	45 days	9月1日星期二	10月15日星期四	月1日星期二9	月15日星期四10	151	434,756,154,155	0 days		100%
154	SUBS-1150				Subletting for ELS works for Inlet Works No.1	85 days	10月16日星期五	1月8日星期五	85 days	10月16日星期五	1月8日星期五	月16日星期五10	月8日星期五1	153		0 days		100%
155	SUBS-1160				Subletting for ELS works for Membrane Facilities Building and other buildings	85 days	10月16日星期五	1月8日星期五	85 days	10月16日星期五	1月8日星期五	月16日星期五10	月8日星期五1	153	439,544,757,156,157,158,159,160	0 days		100%
156	SUBS-1170				Subletting for structural works for Inlet Works Building	48 days	1月9日星期六	2月25日星期四	48 days	1月9日星期六	2月25日星期四	月9日星期六1	月25日星期四2	155		0 days		100%
157	SUBS-1180				Subletting for structural works for Primary Sedimentation Tanks	48 days	1月9日星期六	2月25日星期四	48 days	1月9日星期六	2月25日星期四	月9日星期六1	月25日星期四2	155		0 days		100%
158	SUBS-1190				Subletting for structural works for Bioreactors	48 days	1月9日星期六	2月25日星期四	48 days	1月9日星期六	2月25日星期四	月9日星期六1	月25日星期四2	155	547	0 days		100%
159	SUBS-1200				Subletting for structural works for Membrane Facilities Building	48 days	1月9日星期六	2月25日星期四	48 days	1月9日星期六	2月25日星期四	月9日星期六1	月25日星期四2	155	666	0 days		100%
160	SUBS-1210				Subletting for structural works for SAS pumping house and ancillary structures	48 days	1月9日星期六	2月25日星期四	48 days	1月9日星期六	2月25日星期四	月9日星期六1	月25日星期四2	155	161	0 days		100%
161	SUBS-1220				Subletting for ABWF works	48 days	2月26日星期五	4月14日星期三	48 days	2月26日星期五	4月14日星期三	月26日星期五2	月14日星期三4	160	163,407,487,573	0 days		100%
162	SUBS-1230				Subletting for Process Pipeworks, Utilities and Roadworks	150 days	5月22日星期五	10月18日星期日	150 days	5月22日星期五	10月18日星期日	月22日星期五5	月18日星期日10	141	953,964	0 days		100%
163	SUBS-1240				Subletting for Landscape Hardworks and Softworks	48 days	4月15日星期四	6月1日星期二	48 days	4月15日星期四	6月1日星期二	月15日星期四4	月1日星期二6	161	1916	0 days		100%
164	SUBS-1250				Subletting for Trial dewatering works and installation of additional stop logs at BR2 connon channel due to malfunctioned of existing penstock at FST no. 5 and 7 (EWN 055)	15 days	9月15日星期二	9月29日星期二	15 days	9月15日星期二	9月29日星期二	月15日星期二9	月29日星期二9		496	0 days		100%
165	SUBS-1260				Subletting for Diversion of Power supply for existing Slaughter House pump station (CE 034)	14 days	9月21日星期一	10月4日星期日	14 days	9月21日星期一	10月4日星期日	月21日星期一9	月4日星期日10			0 days		100%
166	SUBS-1270				Subletting for Decommission of existing power and signal systems in leachate Pump station switch room (PMI 039)	14 days	9月21日星期一	10月4日星期日	14 days	9月21日星期一	10月4日星期日	月21日星期一9	月4日星期日10		741	0 days		100%
167	SUBS-1280				Subletting for Diversion of Existing DN250 Leachate Raising Main (PPMI 025)	31 days	9月21日星期一	10月21日星期三	31 days	9月21日星期一	10月21日星期三	月21日星期一9	月21日星期三10			0 days		100%
168	SUBS-1290				Subletting for Construction of Cable trough for CLP 11kv Cable Diversion (PPMI 041)	31 days	9月21日星期一	10月21日星期三	31 days	9月21日星期一	10月21日星期三	月21日星期一9	月21日星期三10		754	0 days		100%
169	SUBS-1300				Subletting for Demolition of Existing Pillar box and its concrete plinth (CE 030)	31 days	9月21日星期一	10月21日星期三	31 days	9月21日星期一	10月21日星期三	月21日星期一9	月21日星期三10		743	0 days		100%
170	SUBS-1310				Subletting for Excavation to locate existing underground cable near SAS Pump Station (PPMI 038)	31 days	9月21日星期一	10月21日星期三	31 days	9月21日星期一	10月21日星期三	月21日星期一9	月21日星期三10			0 days		100%
171	SUBS-1320				Subletting for Diversion of pumping system sewerage (PPMI 083)	31 days	9月21日星期一	10月21日星期三	31 days	9月21日星期一	10月21日星期三	月21日星期一9	月21日星期三10		747	0 days		100%
172	**SUBA-1000**				**Statutory Submission, Submission and Approval**	**1956 days**	**11月18日星期一**	**3月26日星期三**	**1948 days**	**11月18日星期一**	**3月18日星期二**	**月18日星期一11**	**NA**			**249 days**		**58%**
173	SUBA-1010				Liaison with operator of SWHSTW and obtain their consent of associated method statement of major activities	1584 days	11月18日星期一	3月26日星期三	1584 days	11月18日星期一	3月18日星期二	月18日星期一11	NA	2	59FF	163 days		41%
174	SUBA-1020				Prepare and submit Subcontractor Management Plan (SMP)	24 days	11月18日星期一	12月11日星期三	24 days	11月18日星期一	12月11日星期三	月18日星期一11	月11日星期三12	2	142,145,144	0 days		100%
175	SUBA-1030				Prepare and submit Interface Management Plan	36 days	11月18日星期一	12月23日星期一	36 days	11月18日星期一	12月23日星期一	月18日星期一11	月23日星期一12	2		0 days		100%
176	SUBA-1040				Prepare and submit the TTA plans inside Treatment Plant for UU diversion and buildings construction	24 days	11月18日星期一	12月11日星期三	24 days	11月18日星期一	12月11日星期三	月18日星期一11	月11日星期三12	2	223	0 days		100%
177	SUBA-1050				Prepare and submit method statement for UU diversion for Inlet Works No.1	12 days	11月18日星期一	11月29日星期五	12 days	11月18日星期一	11月29日星期五	月18日星期一11	月29日星期五11	2	178	0 days		100%
178	SUBA-1060				PM review and accept the method statement	0 days	11月30日星期六	12月11日星期三	0 days	11月30日星期六	11月30日星期六	月30日星期六11	月30日星期六11	177	235,236	0 days		100%
179	SUBA-1070				Prepare and submit combine underground services drawing for PM's review the alignment	23 days	12月26日星期四	1月18日星期六	23 days	12月26日星期四	1月18日星期六	月26日星期四12	月18日星期六1	145		0 days		100%
180	SUBA-1080				Prepare and submit method statement for demolition existing structures	66 days	11月18日星期一	1月22日星期三	66 days	11月18日星期一	1月22日星期三	月18日星期一11	月22日星期三1	2	582,423,775,322,960,424	0 days		100%
181	SUBA-1090				Prepare and submit method statement for structural works for buildings	197 days	11月18日星期一	6月1日星期一	197 days	11月18日星期一	6月1日星期一	月18日星期一11	月1日星期一6	2		0 days		100%
182	SUBA-1100				Prepare and submit method statements to MTRC regarding the works within railing protection boundary	92 days	2月1日星期六	5月25日星期一	92 days	2月1日星期六	5月25日星期一	月1日星期六2	月25日星期一5	2	423,775,960,500,424	0 days		100%
183	SUBA-1110				Prepare and submit & approve Safety Management Plan	3 days	11月18日星期一	11月20日星期三	3 days	11月18日星期一	11月20日星期三	月18日星期一11	月20日星期三11	2		0 days		100%
184	SUBA-1120				Prepare and submit Excavation and lateral support (ELS) proposal	128 days	2月10日星期一	6月16日星期二	128 days	2月10日星期一	6月16日星期二	月10日星期一2	月16日星期二6	2		0 days		100%
185	SUBA-1120a				Prepare and submit Excavation and lateral support (ELS) proposal for Inlet Works No.1	24 days	11月24日星期三	12月17日星期五	24 days	11月24日星期三	12月17日星期五	月24日星期三11	月17日星期五12	342SF		0 days		100%
186	SUBA-1120b				Prepare and submit Excavation and lateral support (ELS) proposal for Primary Sedimentation tanks No.1-4	24 days	6月28日星期二	7月22日星期五	6 days	5月1日星期日	5月6日星期五	月1日星期日5	月6日星期五5	439SF		0 days		100%
187	SUBA-1120c				Prepare and submit Excavation and lateral support (ELS) proposal for Bioreactor No. 2A&2B	24 days	8月7日星期日	8月31日星期三	18 days	8月1日星期一	8月18日星期四	月1日星期一8	月18日星期四8	8	544	0 days		100%
188	SUBA-1130				Prepare and submit Dewatering proposal for basement construction	165 days	2月10日星期一	7月23日星期四	165 days	2月10日星期一	7月23日星期四	月10日星期一2	月23日星期四7	2		0 days		100%
189	SUBA-1130a				Prepare and submit Dewatering proposal for basement construction for Inlet Works No.1	24 days	12月2日星期四	12月25日星期六	24 days	12月2日星期四	12月25日星期六	月2日星期四12	月25日星期六12	342SF		0 days		100%
190	SUBA-1130b				Prepare and submit Dewatering proposal for basement construction for Primary Sedimentation tanks No.1-4	24 days	6月28日星期二	7月22日星期五	24 days	8月23日星期二	9月16日星期五	月23日星期二8	NA	439SF		1164 days		50%
191	SUBA-1130c				Prepare and submit Dewatering proposal for basement construction for Bioreactor No. 2A&2B	24 days	8月7日星期日	8月31日星期三	16 days	8月1日星期一	8月16日星期二	月1日星期一8	月16日星期二8		544	0 days		100%
192	SUBA-1140				Prepare and submit Pre-construction condition survey of existing structures/ services	0 days	11月18日星期一	3月6日星期五	0 days	11月18日星期一	11月18日星期一	月18日星期一11	月18日星期一11	220		0 days		100%
193	SUBA-1150				Prepare and submit Settlement and movement monitoring proposal of existing structures/ services	110 days	11月18日星期一	3月6日星期五	110 days	11月18日星期一	3月6日星期五	月18日星期一11	月6日星期五3	220FS+120 days		0 days		100%
194	SUBA-1160				Prepare and submit design of structure elements of the temporary activated carbon deodorization unit	60 days	11月18日星期一	3月16日星期一	60 days	11月18日星期一	3月16日星期一	月18日星期一11	月16日星期一3	2FS+60 days		0 days		100%
195	SUBA-1170				Prepare of RSE and structural design for alternation and additional (A&A) works at Membrane Facilities Building No.1	180 days	10月18日星期一	4月15日星期五	180 days	10月18日星期一	4月15日星期五	月18日星期一10	NA		962FS+160 days	3 days		0%
196	SUBA-1180				Prepare of RSE and structural design for alternation and additional (A&A) works at Main Power House	60 days	7月6日星期一	9月3日星期四	60 days	7月6日星期一	9月3日星期四	月6日星期一7	月3日星期四9		960	0 days		100%
197	SUBA-1190				Prepare and submit relevant documents to WSD for watermain works (license plumber)	0 days	NA	NA	30 days	11月2日星期一	12月5日星期六	NA	NA	2	1043,1176,1193,1213,1391,1410,	108 days		0%
198	**SUBE-1000**				**Environmental Aspect Submissions**	**81 days**	**11月18日星期一**	**2月6日星期四**	**81 days**	**11月18日星期一**	**2月6日星期四**	**月18日星期一11**	**月6日星期四2**			**0 days**		**100%**
199	SUBE-1010				Prepare, submit & approve Site Management Plan for Trip Tricket System	66 days	11月18日星期一	1月22日星期三	66 days	11月18日星期一	1月22日星期三	月18日星期一11	月22日星期三1	2		0 days		100%
200	SUBE-1020				Prepare, submit & approve Waste Management Plan	81 days	11月18日星期一	2月6日星期四	81 days	11月18日星期一	2月6日星期四	月18日星期一11	月6日星期四2	2		0 days		100%
201	SUBE-1030				Prepare, submit & approve Environmental Management Plan	66 days	11月18日星期一	1月22日星期三	66 days	11月18日星期一	1月22日星期三	月18日星期一11	月22日星期三1	2		0 days		100%
202	**SUBP-1000**				**Procurement**	**648 days**	**11月18日星期一**	**8月26日星期四**	**1298 days**	**11月18日星期一**	**6月7日星期三**	**月18日星期一11**	**NA**			**0 days**		**82%**
203	SUBP-1010				Prepare and submit the Procurement Procedure	2 days	11月18日星期一	11月19日星期二	2 days	11月18日星期一	11月19日星期二	月18日星期一11	月19日星期二11	2	204	0 days		100%



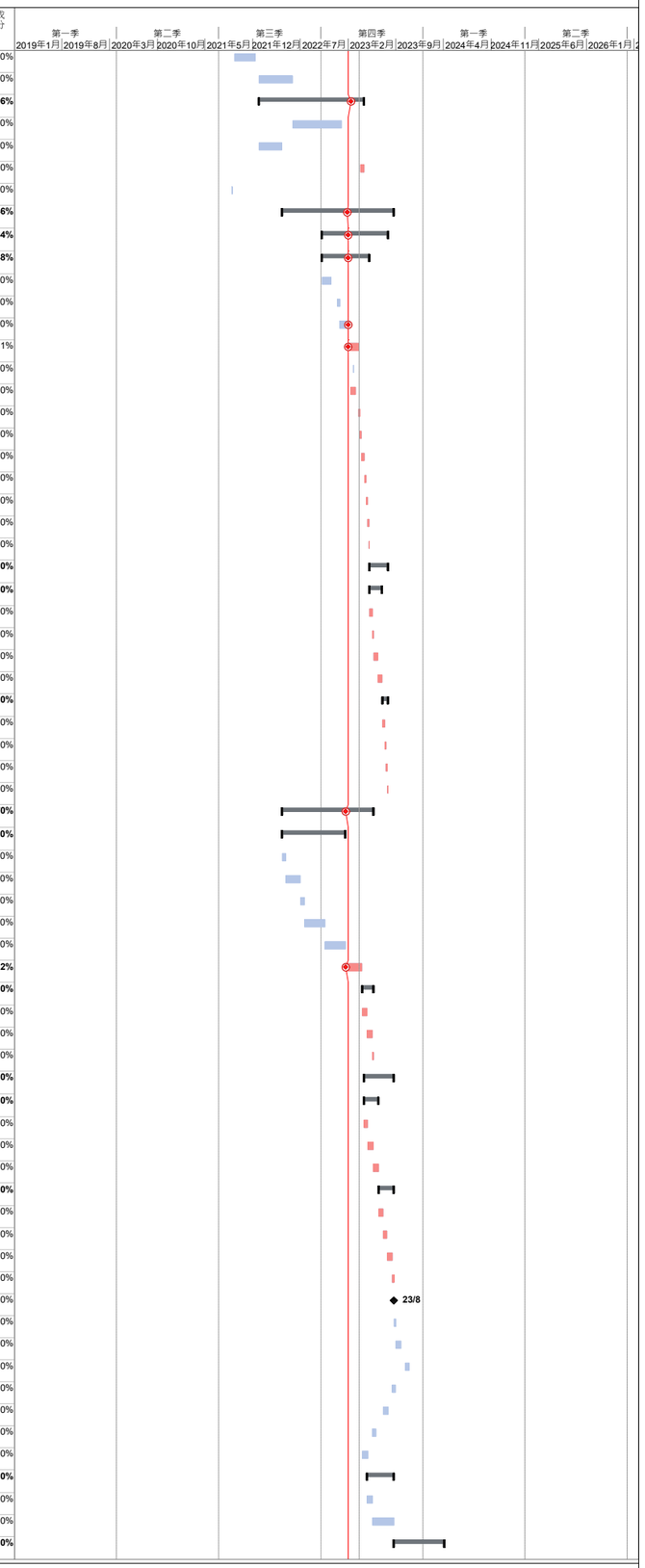
識別碼	Activity ID	Key Date	NCE/(EW)	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Rid All	完成百分比
204	SUBP-1020				PM Review & Accept Procurement Procedure	21 days	11月19日星期二	12月10日星期二	21 days	11月19日星期二	12月10日星期二	月19日星期二11	月10日星期二12	203	207,208,209,210,211,212,213,205	0 days		100%
205	SUBP-NCE-447		447		Cable Draw Pit Material - I-Beam	0 days	NA	NA	135 days	12月19日星期一	6月7日星期三	月19日星期一12	NA	204	206,1139FF,1233FF,1260FF,1417	-332 days		30%
206	SUBP-1030				Prepare, submit and approve the pipe works material	34 days	2月6日星期四	3月10日星期二	34 days	2月6日星期四	3月10日星期二	月6日星期四2	月10日星期二3	205	234,953,964	0 days		100%
207	SUBP-1040				Prepare, submit and approve the water proofing material	25 days	8月2日星期一	8月26日星期四	25 days	8月2日星期一	8月26日星期四	月2日星期一8	月26日星期四8	204		0 days		100%
208	SUBP-1050				Prepare, submit and approve the concrete mix material	90 days	2月3日星期一	5月2日星期六	90 days	2月3日星期一	5月2日星期六	月3日星期一2	月2日星期六5	204	547,666	0 days		100%
209	SUBP-1060				Prepare, submit and approve the rebar material	49 days	5月23日星期六	7月10日星期五	49 days	5月23日星期六	7月10日星期五	月23日星期六5	月10日星期五7	204	547,666	0 days		100%
210	SUBP-1070				Prepare, submit and approve the metal works material	48 days	9月1日星期二	10月18日星期日	48 days	9月1日星期二	10月18日星期日	月1日星期二9	月18日星期日10	204	547,666	0 days		100%
211	SUBP-1080				Prepare, submit and approve the ABWF works material	48 days	3月1日星期一	4月17日星期六	48 days	3月1日星期一	4月17日星期六	月1日星期一3	月17日星期六4	204	407,487,573,724	0 days		100%
212	SUBP-1090				Prepare, submit and approve the protective lining to concrete	48 days	9月1日星期二	10月18日星期日	48 days	9月1日星期二	10月18日星期日	月1日星期二9	月18日星期日10	204	547,666	0 days		100%
213	SUBP-1100				Prepare, submit and approve the multi-part covers	21 days	5月5日星期二	5月25日星期一	21 days	5月5日星期二	5月25日星期一	月5日星期二5	月25日星期一5	204		0 days		100%
214	**SUBB-1000**				**BIM**	**1562 days**	**11月18日星期一**	**2月28日星期五**	**1562 days**	**11月18日星期一**	**2月20日星期四**	**月18日星期一11**	**NA**			**236 days**		**39%**
215	SUBB-1010				Prepare, submit and approve the proposal of details of Common data environment (CDE)	37 days	11月18日星期一	4月1日星期三	37 days	11月18日星期一	4月1日星期三	月18日星期一11	月1日星期一4	149,150	216	0 days		100%
216	SUBB-1020				Prepare and submit BIM submission	1451 days	4月2日星期四	2月28日星期五	1451 days	4月2日星期四	2月20日星期四	月2日星期四4	NA	215		236 days		37%
217	**C-1000**	*			**Construction Works (Working day)**	**1524 days**	**11月18日星期一**	**1月19日星期五**	**1855 days**	**11月18日星期一**	**12月15日星期日**	**月18日星期一11**	**NA**			**342 days**		**72%**
218	**CPW-1000**				**Preliminary Works**	**121 days**	**11月18日星期一**	**3月17日星期二**	**121 days**	**11月18日星期一**	**3月17日星期二**	**月18日星期一11**	**月17日星期二3**			**0 days**		**100%**
219	CPW-1000				Initial Survey	10 days	11月18日星期一	11月28日星期四	10 days	11月18日星期一	11月28日星期四	月18日星期一11	月28日星期四11	2	220	0 days		100%
220	CPW-2000				Condition Survey	89 days	11月18日星期一	3月6日星期五	89 days	11月18日星期一	3月6日星期五	月18日星期一11	月6日星期五3	145,219	221,192,222,193FS+120 days	0 days		100%
221	CPW-3000				Installation of Monitoring Markers	78 days	11月29日星期五	3月5日星期四	78 days	11月29日星期五	3月5日星期四	月29日星期五11	月5日星期四3	220		0 days		100%
222	CPW-4000			22, 235	Tree Felling Works	9 days	3月7日星期六	3月17日星期二	9 days	3月7日星期六	3月17日星期二	月7日星期六3	月17日星期二3	220		0 days		100%
223	**CAR-0000**	*			**Access Road (AR3), B-1**	**238 days**	**12月12日星期四**	**9月30日星期三**	**238 days**	**12月12日星期四**	**9月30日星期三**	**月12日星期四12**	**月30日星期三9**	**4,176**	**1055SS**	**0 days**		**100%**
224	CAR-1000			05	Site setup and clearance works	38 days	1月20日星期一	3月6日星期五	38 days	1月20日星期一	3月6日星期五	月20日星期一1	月6日星期五3		225	0 days		100%
225	CAR-1001			055	Awaiting for AECOM instruction for alignment confirmation for road works	5 days	2月17日星期一	3月12日星期四	5 days	2月17日星期一	3月12日星期四	月17日星期一2	月12日星期四3	224	226	0 days		100%
226	CAR-1002		031	215-1	Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07	4 days	5月21日星期四	5月25日星期一	4 days	5月21日星期四	5月25日星期一	月21日星期四5	月25日星期一5	225	227	0 days		100%
227	CAR-2000				Drainage and Utilities Works	75 days	3月7日星期六	6月9日星期二	75 days	3月7日星期六	6月9日星期二	月7日星期六3	月9日星期二6	226	228	0 days		100%
228	CAR-2000a			215-2	Trimming of Existing Sheet Piles in Access Road AR3	20 days	7月14日星期二	8月5日星期三	20 days	7月14日星期二	8月5日星期三	月14日星期二7	月5日星期三8	227	229	0 days		100%
229	CAR-2000b			215	Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1	7 days	8月28日星期五	9月4日星期五	7 days	8月28日星期五	9月4日星期五	月28日星期五8	月4日星期五9	228	230	0 days		100%
230	CAR-2001			036	Diversion of Existing Underground Cables in Portion B-1A	172 days	3月5日星期四	9月30日星期三	172 days	3月5日星期四	9月30日星期三	月5日星期四3	月30日星期三9	229	232	0 days		100%
231	CAR-2002			055	Additional U-channel, beam barrier and footway concrete pavement	60 days	12月12日星期四	2月26日星期三	60 days	12月12日星期四	2月26日星期三	月12日星期四12	月26日星期二2		232	0 days		100%
232	CAR-3000	KD1A			Roadworks	133 days	4月24日星期五	9月30日星期三	133 days	4月24日星期五	9月30日星期三	月24日星期五4	月30日星期三9	146,231,230	42FF	0 days		100%
233	**CIW-0000**	*			**Inlet Works No.1, B-2**	**665 days**	**11月26日星期二**	**2月23日星期三**	**754 days**	**11月26日星期二**	**6月15日星期三**	**月26日星期二11**	**月15日星期三6**			**0 days**		**100%**
234	**CIW-1000**				**Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thickeners)**	**665 days**	**11月26日星期二**	**2月23日星期三**	**590 days**	**12月13日星期五**	**12月8日星期三**	**月13日星期五12**	**月8日星期三12**	**206,143**	**44FF**	**0 days**		**100%**
235	CIW-1100				Utilities scanning to identify existing UU arrangement	0 days	12月13日星期五	1月18日星期六	0 days	12月13日星期五	12月13日星期五	月13日星期五12	月13日星期五12	178	236SS,238	0 days		100%
236	CIW-1200				Trial pits to locate the collection points	0 days	1月6日星期一	3月10日星期二	0 days	1月6日星期一	1月6日星期一	月6日星期一1	月6日星期一1	178,235SS,144	254,275	0 days		100%
237	**CIW-1300**				**Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works**	**98 days**	**3月11日星期三**	**7月11日星期六**	**98 days**	**3月11日星期三**	**7月11日星期六**	**月11日星期三3**	**月11日星期六7**			**0 days**		**100%**
238	CIW-1310				Construction of concrete plinth	24 days	3月11日星期三	4月8日星期三	24 days	3月11日星期三	4月8日星期三	月11日星期三3	月8日星期三4	235	239	0 days		100%
239	CIW-1320				Installation of Deodorizer	40 days	4月9日星期四	5月30日星期六	40 days	4月9日星期四	5月30日星期六	月9日星期四4	月30日星期六5	238	240	0 days		100%
240	CIW-1330				Testing & commissioning	15 days	6月1日星期一	6月17日星期三	15 days	6月1日星期一	6月17日星期三	月1日星期一6	月17日星期三6	239	241FS-1 day	0 days		100%
241	CIW-1340				Demolishment of the existing carbon deodorization unit	20 days	6月17日星期三	7月11日星期六	20 days	6月17日星期三	7月11日星期六	月17日星期三6	月11日星期六7	240FS-1 day		0 days		100%
242	**CIW-1400**				**Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)**	**310 days**	**3月9日星期一**	**3月24日星期三**	**310 days**	**3月9日星期一**	**3月24日星期三**	**月9日星期一3**	**月24日星期三3**			**0 days**		**100%**
243	CIW-1405				Joint Initial Survey arrangement with MTRCL	24 days	11月19日星期四	12月16日星期三	24 days	11月19日星期四	12月16日星期三	月19日星期四11	月16日星期三12		244	0 days		100%
244	CIW-1410			41	Remedial Works for uncharted sludge Pipe leakage	8 days	3月9日星期一	3月17日星期二	8 days	3月9日星期一	3月17日星期二	月9日星期一3	月17日星期二3	243	245	0 days		100%
245	CIW-1420			41	Diversion of uncharted DN250 sludge pipe	27 days	3月31日星期二	5月7日星期四	27 days	3月31日星期二	5月7日星期四	月31日星期二3	月7日星期四5	244	252,246,247	0 days		100%
246	CIW-1421			24	Diversion of uncharted 2' water pipe	9 days	4月15日星期三	4月24日星期五	0 days	4月15日星期三	4月15日星期三	月15日星期三4	月15日星期三4	245	252	0 days		100%
247	CIW-1422			32	Additional Underground Utility Scanning for existing sludge pipe	1 day	4月18日星期六	4月18日星期六	0 days	4月18日星期六	4月18日星期六	月18日星期六4	月18日星期六4	245		0 days		100%
248	CIW-1423			84	HV Cable Diversion for Inlet Works	135 days	10月10日星期六	3月24日星期三	135 days	10月10日星期六	3月24日星期三	月10日星期六10	月24日星期三3			0 days		100%
249	CIW-1423a			236	Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1	268 days	5月4日星期一	3月24日星期三	0 days	5月4日星期一	5月4日星期一	月4日星期一5	月4日星期一5			0 days		100%
250	CIW-1424			81	Diversion of Existing Sludge Rising Main and Sewerage System	102 days	9月28日星期一	1月30日星期六	102 days	9月28日星期一	1月30日星期六	月28日星期一9	月30日星期六1		335,337,303,304	0 days		100%
251	CIW-1425			037	Demolition of Deodorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pump Pit	1 day	8月28日星期五	8月28日星期五	1 day	8月28日星期五	8月28日星期五	月28日星期五8	月28日星期五8			0 days		100%
252	CIW-1430			030	Removal of concrete surround and uncharted sludge pipe	20 days	4月24日星期五	5月19日星期二	20 days	4月24日星期五	5月19日星期二	月24日星期五4	月19日星期二5	245,246	253	0 days		100%
253	CIW-1440			273	Remedial works for uncharted pipe and unforeseen water seepage	10 days	5月8日星期五	5月19日星期二	10 days	5月8日星期五	5月19日星期二	月8日星期五5	月19日星期二5	252	254,255	0 days		100%
254	**CIW-1450**				**Trench Excavation for 1800mm dia pipeline and manholes**	**520 days**	**3月11日星期三**	**12月8日星期三**	**520 days**	**3月11日星期三**	**12月8日星期三**	**月11日星期三3**	**月8日星期三12**	**236,253**		**0 days**		**100%**
255	CIW-1450a			28	Sheetpile installation (on hold due to identification of uncharted obstruction)	80 days	3月11日星期三	6月18日星期四	80 days	3月11日星期三	6月18日星期四	月11日星期三3	月18日星期四6	253	256	0 days		100%
256	CIW-1450b				Trench Excavation for 1800mm dia pipeline and manholes	22 days	6月18日星期四	7月15日星期三	0 days	6月18日星期四	6月18日星期四	月18日星期四6	月18日星期四6	255	257,270	0 days		100%
257	CIW-1450c			28	Identification of uncharted concrete surround and pipes near MHA01	29 days	7月16日星期四	8月18日星期二	29 days	7月16日星期四	8月18日星期二	月16日星期四7	月18日星期二8	256	260,265,270	0 days		100%
258	CIW-1450d		051	215-2	Removal of existing DSD drawpits near IRC & exposure of CLP cables with installation of additional temporary support	26 days	7月16日星期四	8月14日星期五	0 days	7月16日星期四	7月16日星期四	月16日星期四7	月16日星期四7			0 days		100%
259	CIW-1450e		045	(045)	Removal of uncharted concrete surround and pipes near MHA01 and Sheetpile installation	10 days	8月7日星期五	8月18日星期二	10 days	8月7日星期五	8月18日星期二	月7日星期五8	月18日星期二8		260,265	0 days		100%
260	CIW-1450f		078	096	Revised type of pipe bedding between Manholes no. MHA01 and MHA02	6 days	10月3日星期六	10月9日星期五	6 days	10月3日星期六	10月9日星期五	月3日星期六10	月9日星期五10	259,257	261	0 days		100%
261	CIW-1450g		072,078	079	Replace top soil with Grade 200 Rockfill below Formation level of the proposed pipe between MHA01 and MHA02	3 days	8月10日星期一	8月12日星期三	3 days	8月10日星期一	8月12日星期三	月10日星期一8	月12日星期三8	260	263	0 days		100%
262	CIW-1450h		161	(161)	Grade 200 Rockfill in ELS cofferdam of IRC	3 days	12月23日星期三	12月28日星期一	3 days	12月23日星期三	12月28日星期一	月23日星期三12	月28日星期一12		263	0 days		100%
263	CIW-1451				Construct M/H MHA01, MHA02, MHA04 and Inlet Reception Chamber	395 days	8月13日星期四	3月31日星期三	395 days	8月13日星期四	12月8日星期三	月13日星期四8	月8日星期三12	261,265,264,267,262	307	0 days		100%
264	CIW-1452		022	052	Enlarged size of Manhole MHA02	6 days	9月1日星期二	9月7日星期一	6 days	9月1日星期二	9月7日星期一	月1日星期二9	月7日星期一9		263	0 days		100%
265	CIW-1453		094,146	(094) (146)	Additional Works for Manhole MHA01 Construction and Pipe Connection to Manhole MHA01	160 days	9月16日星期三	3月31日星期三	160 days	9月16日星期三	3月31日星期三	月16日星期三9	月31日星期三3	257,259	263	0 days		100%
266	CIW-PMI440			440	Additional Works for Diversion of Cables at Inlet Reception Chamber	0 days	NA	NA	10 days	3月11日星期四	3月22日星期一	月11日星期四3	月22日星期一3			0 days		100%
267	CIW-1454		096	(096)	Additional Works for IRC and Pipe Connection to IRC from Existing Manhole FMH1004115	17 days	9月18日星期五	10月9日星期五	17 days	9月18日星期五	10月9日星期五	月18日星期五9	月9日星期五10		268,270,263	0 days		100%
268	CIW-1455		111	381	Removal of left-in sheetpiles at IRC	3 days	10月19日星期一	10月21日星期三	3 days	10月19日星期一	10月21日星期三	月19日星期一10	月21日星期三10	267		0 days		100%
269	CIW-1456		077	065	Compliance Test for DN1800 Precast Concrete Pipe	1 day	9月18日星期五	9月18日星期五	1 day	9月18日星期五	9月18日星期五	月18日星期五9	月18日星期五9			0 days		100%
270	CIW-1457				Lay 1800mm dia concrete pipe	88 days	9月17日星期四	1月25日星期一	88 days	9月17日星期四	1月25日星期一	月17日星期四9	月25日星期一1	256,257,267	271	0 days		100%
271	CIW-1457a			296	Left-in Temporary Works at Proposed Manhole MHA01	0 days	NA	NA	11 days	6月29日星期二	7月12日星期一	月29日星期二6	月12日星期一7	270	272FF	0 days		100%



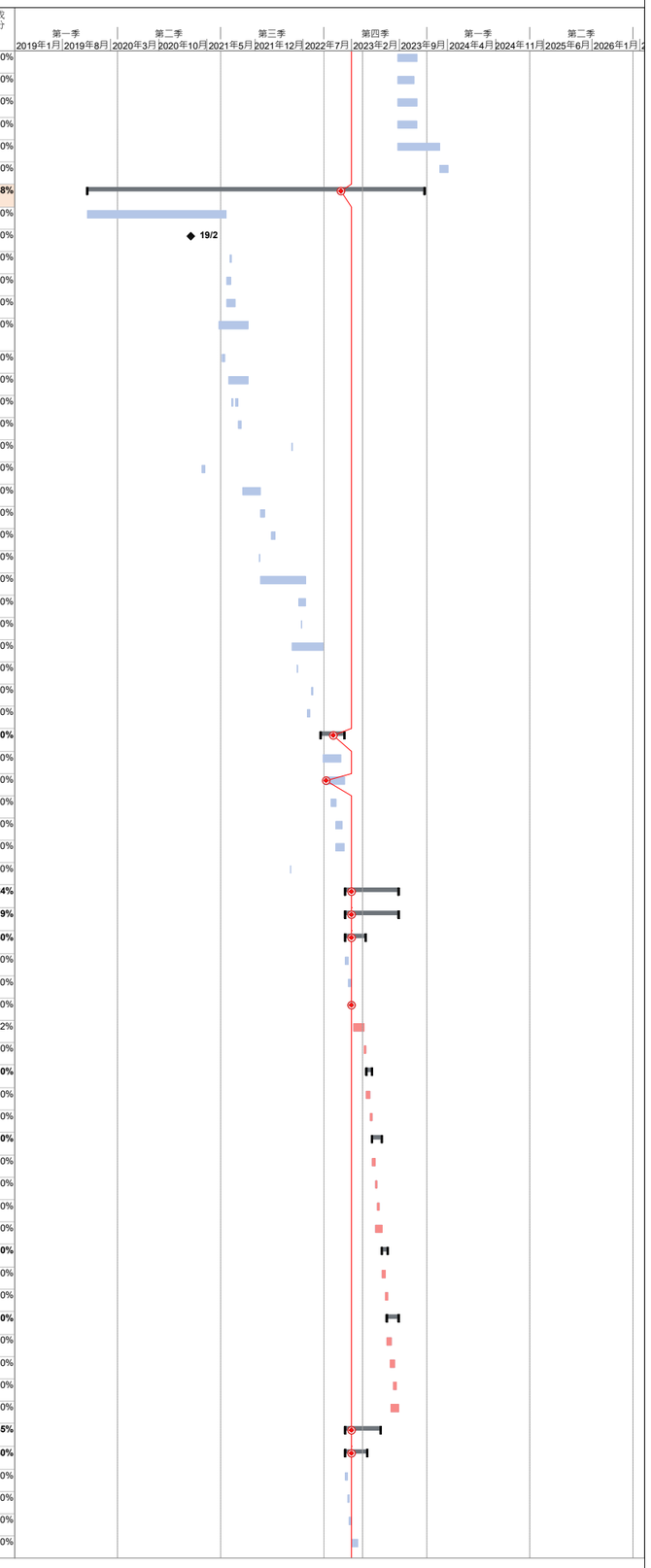
識別碼	Activity ID	Key Date	NCE/(EW)	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
272	CIW-1458				Connection to existing Inlet Chamber	152 days	1月26日星期二	8月2日星期一	152 days	1月26日星期二	8月2日星期一	月26日星期二1	月2日星期一8	271FF	335,44FF	0 days		100%
273	**CIW-1500**				**Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain**	**665 days**	**11月26日星期二**	**2月23日星期三**	**754 days**	**11月26日星期二**	**6月15日星期三**	**月26日星期二11**	**月15日星期三6**			**0 days**		**100%**
274	**CIW-1510**	**KD1B**			**Diversion of Tank Drain MHD9.5 (approx. 70m CHES1 & CHES2)**	**405 days**	**11月26日星期二**	**4月10日星期六**	**405 days**	**11月26日星期二**	**4月10日星期六**	**月26日星期二11**	**月10日星期六4**	**302**	**335,44FF**	**0 days**		**100%**
275	**CIW-1500a**				**Diversion of Tank Drain MHD9.5 to MHA04 (approx. 70m 675mm dia concrete pipe, 24m DN250 DI leachate rising main, 90m CHES1&S2 DN250 CI)**	**195 days**	**11月26日星期二**	**7月25日星期六**	**195 days**	**11月26日星期二**	**7月25日星期六**	**月26日星期二11**	**月25日星期六7**	**236**		**0 days**		**100%**
276	CIW-1500b				Joint Initial Survey arrangement with MTRCL	158 days	11月26日星期二	6月10日星期三	31.6 days	11月26日星期二	1月4日星期六	月26日星期二11	月4日星期六1			0 days		100%
277	CIW-1500c				Site Clearance & inspection pit excavation under conforming alignments	36 days	6月12日星期五	7月25日星期六	36 days	6月12日星期五	7月25日星期六	月12日星期五6	月25日星期六7			0 days		100%
278	**CIW-1511**				**Tank Drain Diversion near MTRCL track**	**247 days**	**6月11日星期四**	**4月10日星期六**	**247 days**	**6月11日星期四**	**4月10日星期六**	**月11日星期四6**	**月10日星期六4**			**0 days**		**100%**
279	CIW-1511a		044	040	Excavation of trial pit near MHD9.5 (TP45 & 47)	12 days	7月27日星期一	8月8日星期六	12 days	7月27日星期一	8月8日星期六	月27日星期一7	月8日星期六8		280,284	0 days		100%
280	CIW-1511b		044		Uncharted cables found near MTRC track and identification	1 day	6月18日星期四	6月18日星期四	1 day	6月18日星期四	6月18日星期四	月18日星期四6	月18日星期四6	279		0 days		100%
281	CIW-1511c				Excavation of trial pit near MHD8.5	5 days	6月19日星期五	6月24日星期三	5 days	6月19日星期五	6月24日星期三	月19日星期五6	月24日星期三6		282	0 days		100%
282	CIW-1511d		046	(046)	Lower the ground surface, opening and additional trial pit (TP38)	60 days	6月11日星期四	8月21日星期五	60 days	6月11日星期四	8月21日星期五	月11日星期四6	月21日星期五8	281	283	0 days		100%
283	CIW-1511e			040	Excavation of Trial Pits near Manhole MHA04 and MH09	60 days	6月11日星期四	8月21日星期五	0 days	6月11日星期四	6月11日星期四	月11日星期四6	月11日星期四6	282		0 days		100%
284	CIW-1511f		095	040	Additional Trial Pit between MHD9.5 and MHA04	25 days	8月21日星期五	9月18日星期五	25 days	8月21日星期五	9月18日星期五	月21日星期五8	月18日星期五9	279		0 days		100%
285	CIW-1511g				Sheetpile installation for MHD9.5	38 days	9月1日星期二	10月16日星期五	38 days	9月1日星期二	10月16日星期五	月1日星期二9	月16日星期五10			0 days		100%
286	CIW-1511h				Sheetpile installation between MHD9.5 & MHA04	25 days	9月8日星期二	10月8日星期四	25 days	9月8日星期二	10月8日星期四	月8日星期二9	月8日星期四10			0 days		100%
287	CIW-1511i				UU supporting & ELS works& excavation between MHD9.5 & MHA04	73 days	10月7日星期三	1月4日星期一	73 days	10月7日星期三	1月4日星期一	月7日星期三10	月4日星期一1			0 days		100%
288	CIW-1511j		127	261	Unsuits excavated material from MHD9.5 to MHA04	4 days	11月20日星期五	11月24日星期二	4 days	11月20日星期五	11月24日星期二	月20日星期五11	月24日星期二11			0 days		100%
289	CIW-1511k		167	(167)	Revise design of manhole MHD9.5	20 days	1月7日星期四	1月29日星期五	20 days	1月7日星期四	1月29日星期五	月7日星期四1	月29日星期五1			0 days		100%
290	CIW-1511l				Break up opening and plugging existing concrete pipe at MHD9.5	6 days	1月18日星期一	1月23日星期六	6 days	1月18日星期一	1月23日星期六	月18日星期一1	月23日星期六1			0 days		100%
291	CIW-1511l1				Trimming existing concrete pipe at MHD9.5	13 days	1月22日星期五	2月5日星期五	13 days	1月22日星期五	2月5日星期五	月22日星期五1	月5日星期五2			0 days		100%
292	CIW-1511l2				Construction of manhole MHD9.5	49 days	2月6日星期六	4月10日星期六	49 days	2月6日星期六	4月10日星期六	月6日星期六2	月10日星期六4			0 days		100%
293	CIW-1511m		176	(176)	Additional work to prevent backflow from MHl1 to MHD9.5	9 days	1月18日星期一	1月27日星期三	9 days	1月18日星期一	1月27日星期三	月18日星期一1	月27日星期三1			0 days		100%
294	CIW-1511n		180	(180)	Sewage overflow incident of MHD11	9 days	2月13日星期六	2月25日星期四	9 days	2月13日星期六	2月25日星期四	月13日星期六2	月25日星期四2			0 days		100%
295	CIW-1512				Additional Special manhole for tank drain (NCE)	35 days	8月24日星期一	10月5日星期一	35 days	8月24日星期一	10月5日星期一	月24日星期一8	月5日星期一10		296,297	0 days		100%
296	CIW-1513				Breaking of concrete surround of cables (0.8mx0.8mx70m) (NCE)	24 days	9月8日星期二	10月7日星期三	24 days	9月8日星期二	10月7日星期三	月8日星期二9	月7日星期三10	295		0 days		100%
297	CIW-1514			051	Construction of tank drain along revised alignment w/ concrete surround	10 days	1月5日星期二	1月15日星期五	10 days	1月5日星期二	1月15日星期五	月5日星期二1	月15日星期五1	295	43FF,335	0 days		100%
298	CIW-1516				Backfilling trench between MHD9.5 & MHA04	20 days	1月16日星期六	2月8日星期一	20 days	1月16日星期六	2月8日星期一	月16日星期六1	月8日星期一2			0 days		100%
299	**CIW-1520**				**Diversion of Sludge Pipes**	**364 days**	**5月11日星期一**	**7月29日星期四**	**509 days**	**5月11日星期一**	**1月21日星期五**	**月11日星期一5**	**月21日星期五1**			**0 days**		**100%**
300	CIW-1520a		064	351	Excavation of trial pit and identification of connection point	103 days	5月11日星期一	9月9日星期三	103 days	5月11日星期一	9月9日星期三	月11日星期一5	月9日星期三9		301	0 days		100%
301	CIW-1520b		064	351	Trench excavation for twin DN250 sludge pipe ,on hold due to encounter of uncharted sludge pipe	4 days	7月15日星期三	7月18日星期六	4 days	7月15日星期三	7月18日星期六	月15日星期三7	月18日星期六7	300	302	0 days		100%
302	CIW-1520c				Additional hole drilling works and identification of connection point	53 days	7月20日星期一	9月18日星期五	53 days	7月20日星期一	9月18日星期五	月20日星期一7	月18日星期五9	301	274	0 days		100%
303	CIW-1520d		120	202	Temporary diversion of substandard DI 250 Leachate raising main	127 days	10月20日星期二	3月24日星期三	51 days	10月20日星期二	12月18日星期五	月20日星期二10	月18日星期五12	250		0 days		100%
304	CIW-1520e		133	302	Protection work for substandard DI 500 tank drain Pipe (near MHD 9.5)	93 days	11月18日星期三	3月12日星期五	0 days	11月18日星期三	11月18日星期三	月18日星期三11	月18日星期三11	250		0 days		100%
305	CIW-1520f		123		Encounter of uncharted concrete pipe within sheetpile cofferdam at MHA04	2 days	11月10日星期二	11月11日星期三	2 days	11月10日星期二	11月11日星期三	月10日星期二11	月11日星期三11		306	0 days		100%
306	CIW-1520g				Resumption and construction of sludge pipe construction	253 days	9月19日星期六	7月29日星期四	398 days	9月19日星期六	1月21日星期五	月19日星期六9	月21日星期五1	305	335,44FF	0 days		100%
307	CIW-1530				Diversion of Leachate Rising Main	60 days	12月9日星期四	2月23日星期三	1 day	12月3日星期五	12月3日星期五	月3日星期五12	月3日星期五12	263		0 days		100%
308	**CIW-1600**				**Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes)**	**370 days**	**8月1日星期六**	**10月28日星期四**	**754 days**	**11月26日星期二**	**6月15日星期三**	**月26日星期二11**	**月15日星期三6**			**0 days**		**100%**
309	CIW-1610			87	~~Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long with M/Hs MHD1A, 1B, 1C, 1D & 1E) - realigned~~	~~0 days~~	~~3月27日星期五~~	~~3月27日星期五~~	~~0 days~~	~~11月26日星期二~~	~~11月26日星期二~~	~~月26日星期二11~~	~~月26日星期二11~~			0 days		100%
310	CIW-1621			034	Temporary Diversion of Existing DN200 Filtrate Rising Main	20 days	8月1日星期六	8月24日星期一	20 days	8月1日星期六	8月24日星期一	月1日星期六8	月24日星期一8		311	0 days		100%
311	CIW-1623		114	(114)	Pipeline Diversion Works near Primary Sludge Thickening Tank	30 days	4月16日星期五	5月22日星期六	30 days	4月16日星期五	5月22日星期六	月16日星期五4	月22日星期六5	310	312	0 days		100%
312	CIW-1624				Uncharted underground utilities at Proposed MHD5B	41 days	5月24日星期一	7月12日星期一	41 days	5月24日星期一	7月12日星期一	月24日星期一5	月12日星期一7	311	313	0 days		100%
313	CIW-1625		141	0260	Uncharted underground utilities near Proposed MHD5B	26 days	5月24日星期一	6月23日星期三	26 days	5月24日星期一	6月23日星期三	月24日星期一5	月23日星期三6	312	314	0 days		100%
314	~~CIW-1630~~		~~012~~		~~Trench Excavation from M/H (approx. 90m long with M/Hs M1A to M3B).~~	~~0 days~~	~~6月23日星期三~~	~~6月23日星期三~~	~~204 days~~	~~6月24日星期四~~	~~2月28日星期一~~	NA	NA	~~313~~	~~316,315,318SS+14 days~~	-330 days		0%
315	~~CIW-1640~~		~~012~~		~~Manholes construction (M1A, M1B, M2B, M3B) and Pipe laying~~	~~0 days~~	~~6月23日星期三~~	~~6月23日星期三~~	~~12 days~~	~~3月1日星期三~~	~~3月14日星期一~~	NA	NA	~~314~~	~~43FF~~	-330 days		0%
316	CIW-1650			(114)	Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with M/Hs MHD5A & 5B)	60 days	4月28日星期三	8月28日星期六	60 days	4月28日星期三	8月24日星期二	月28日星期三4	月24日星期二8	314,323,328,330,332		0 days		100%
317	CIW-1660			542	Provision of Pumping System from Screen to Flume Channel	287 days	11月10日星期二	10月28日星期四	380 days	3月3日星期三	6月15日星期三	月3日星期三3	月15日星期三6			0 days		100%
318	CIW-1670				Manholes construction (MHD5C) and Pipe laying	36 days	8月11日星期三	9月21日星期二	9 days	8月11日星期三	8月20日星期五	月11日星期三8	月20日星期五8	314SS+14 days	319	0 days		100%
319	CIW-1680		267		Manholes construction (MHD5A, MHD5B) and Pipe laying	293 days	11月3日星期二	10月28日星期四	60 days	1月8日星期六	3月22日星期二	月8日星期六1	月22日星期二3	318,337	44FF,945,320	0 days		100%
320	CIW-1690				Backfilling works for the trench	0 days	NA	NA	20 days	3月23日星期三	4月19日星期二	月23日星期三3	月19日星期二4	319	321	0 days		100%
321	CIW-1700				Remedial Works for Pipe Laying between MHD5A and MHD5C	0 days	NA	NA	30 days	4月20日星期三	5月26日星期四	月20日星期三4	月26日星期四5	320		0 days		100%
322	**CIW-2000**				**Decommission and Demolition of Existing Facilitates and Structures**	**222 days**	**3月19日星期四**	**12月15日星期二**	**222 days**	**3月19日星期四**	**12月15日星期二**	**月19日星期四3**	**月15日星期二12**	**6,142,180**		**0 days**		**100%**
323	**CIW-2100**				**Primary Sludge Thickening Tank No.1 and No.2**	**222 days**	**3月19日星期四**	**12月15日星期二**	**222 days**	**3月19日星期四**	**12月15日星期二**	**月19日星期四3**	**月15日星期二12**		**316**	**0 days**		**100%**
324	CIW-2101		012		Additional Works for Temporary Diversion of Bypass Pipe near Primary Sludge Thickeners	45 days	3月19日星期四	5月17日星期日	0 days	3月19日星期四	3月19日星期四	月19日星期四3	月19日星期四3			0 days		100%
325	CIW-2110		020		Removal of E&M equipment of primary sludge thickening tank	1 day	6月4日星期四	6月4日星期四	1 day	6月4日星期四	6月4日星期四	月4日星期四6	月4日星期四6		326	0 days		100%
326	CIW-2120		052		Decommission and Demolition the tank	150 days	6月18日星期四	12月15日星期二	150 days	6月18日星期四	12月15日星期二	月18日星期四6	月15日星期二12	325	328	0 days		100%
327	CIW-2130				Demolition of structure no.2	24 days	5月18日星期一	6月22日星期一	24 days	5月18日星期一	6月22日星期一	月18日星期一5	月22日星期一6			0 days		100%
328	CIW-2200				Primary Sludge Pump Pit	18 days	7月22日星期三	8月11日星期二	18 days	7月22日星期三	8月11日星期二	月22日星期三7	月11日星期二8	326	329,330,316,331	0 days		100%
329	CIW-2300				Septic Tank	18 days	8月12日星期三	9月1日星期二	18 days	8月12日星期三	9月1日星期二	月12日星期三8	月1日星期二9	328		0 days		100%
330	CIW-2400				Diesel Tank	53 days	7月2日星期四	9月1日星期二	53 days	7月2日星期四	9月1日星期二	月2日星期四7	月1日星期二9	328	316	0 days		100%
331	CIW-2410		001		Transfers of Remaining Diesel Fuel of Existing Diesel Tank	15 days	7月2日星期四	7月21日星期二	15 days	7月2日星期四	7月18日星期六	月2日星期四7	月18日星期六7	328	333,332	0 days		100%
332	CIW-2420				Demolition of diesel tank	18 days	8月12日星期三	9月1日星期二	18 days	8月12日星期三	9月1日星期二	月12日星期三8	月1日星期二9	333,331	316	0 days		100%
333	CIW-2500	KD1B			Conditions to be met for KD1B	0 days	NA	NA	0 days	1月22日星期五	1月22日星期五	月22日星期五1	月22日星期五1	331	332	0 days		100%
334	**CIW-3000**	*			**Inlet Works No.1 Building (1)**	**747 days**	**9月15日星期二**	**3月23日星期四**	**1050 days**	**9月15日星期二**	**4月3日星期三**	**月15日星期二9**	**NA 6**			**503 days**		**52%**
335	CIW-3100				Predrilling (10nrs, 1rigs, 2.5days/drillhole/rig) - stage 1	28 days	9月15日星期二	10月19日星期一	28 days	9月15日星期二	10月19日星期一	月15日星期二9	月19日星期一10	272,274,297,250,306		0 days	1	100%
336	CIW-3100a				Predrilling (22nrs, 1rigs, 2.5days/drillhole/rig) - stage 2	60 days	12月8日星期二	2月22日星期一	60 days	12月8日星期二	2月22日星期一	月8日星期二12	月22日星期一2			0 days		100%
337	CIW-3200				Pre-bored H piles (188nos, 1.8rigs, 2days/rig/pile)	210 days	2月19日星期五	11月2日星期二	235 days	2月19日星期五	12月1日星期三	月19日星期五2	月1日星期三12	250,152	338SS+150 days,339,319,1277	0 days	5	100%
338	CIW-3400a				Pile Load Test at zone 1	12 days	8月27日星期五	9月9日星期四	12 days	8月27日星期五	9月9日星期四	月27日星期五8	月9日星期四9	337SS+150 days	340	0 days		100%
339	CIW-3400b				Pile Load Test at zone 2 & 3	21 days	11月3日星期三	11月26日星期五	11 days	12月11日星期六	12月23日星期四	月11日星期六12	月23日星期四12	337	341	0 days		100%



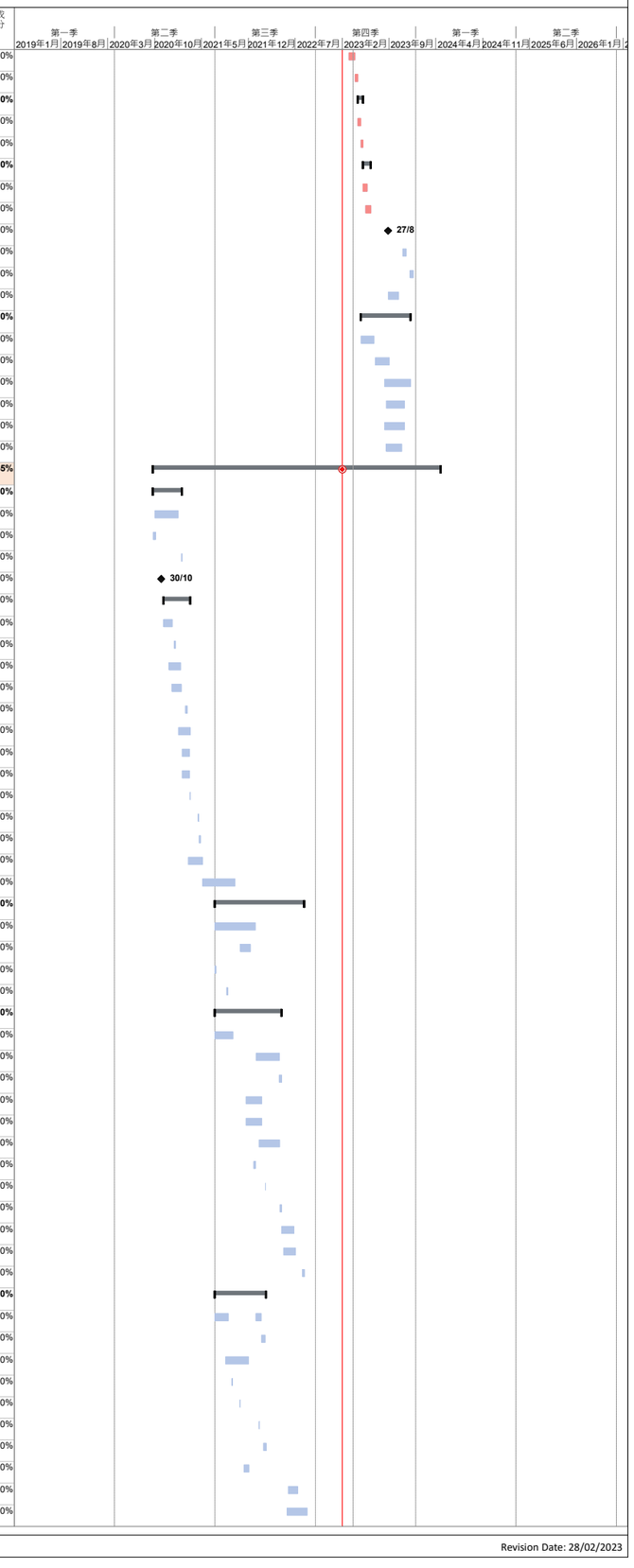
識別碼	Activity ID	Key Date	NCE/(EW)	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
340	CIW-3300a				Sheetpile Installation at Phase C(900sq.m, 1rigs, 50sqm/rig/day)	30 days	9月10日星期五	10月18日星期一	77 days	9月10日星期五	12月11日星期六	9	月10日星期五	9月11日星期六	12 338	344	0 days		100%
341	CIW-3300b				Sheetpile Installation at Phase B (2300sq.m, 1rigs, 50sqm/rig/day)	50 days	11月27日星期六	1月27日星期四	120 days	12月28日星期二	5月27日星期五	12	月28日星期二	12月27日星期五	5 339	343	0 days		100%
342	**CIW-3500**				**ELS works**	**161 days**	**10月19日星期二**	**5月6日星期五**	**378 days**	**12月28日星期二**	**4月11日星期二**	**12**	**月28日星期二**	**NA**		**185SF,189SF**	**-78 days**	**5**	**96%**
343	CIW-3520				Phase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding (strutting 4 layers, excavate soil 10000cu.m)	77 days	1月28日星期五	5月6日星期五	180 days	5月28日星期六	12月31日星期六	12	月28日星期六	5月31日星期六	12 341	351FS-15 days,345	0 days		100%
344	CIW-3510				Phase C (Grid G3 to L7)) - Excavation to +2.6mPD and blinding (strutting 2 layers, excavate soil 2250 cu.m)	77 days	10月19日星期二	1月19日星期三	84 days	12月28日星期二	4月9日星期六	12	月28日星期二	月9日星期六	4 340	375	0 days		100%
345	CIW-3530				Phase A (Grid G1 to L3) - Excavation to +6.5 mPD and blinding (excavate soil 726 cu. M)	30 days	10月23日星期六	11月26日星期五	10 days	3月27日星期一	4月11日星期二	NA		NA	343,356SS+7 days	387	-169 days		0%
346	CIW-3590				Receiving of the First Edition of Civil Requirements from PM	1 day	8月30日星期一	8月30日星期一	1 day	8月30日星期一	8月30日星期一	8	月30日星期一	月30日星期一	8		0 days		100%
347	**CIW-3600**				**R.C. Structure works**	**300 days**	**11月27日星期六**	**12月1日星期四**	**405 days**	**4月11日星期一**	**8月23日星期三**	**4**	**月11日星期一**	**NA**			**-115 days**	**5**	**46%**
348	**CIW-3610**				**Phase B (Grid A1 to G3) South West Side**	**193 days**	**1月5日星期三**	**8月30日星期二**	**240 days**	**10月5日星期三**	**7月27日星期四**	**10**	**月5日星期三**	**NA**			**-105 days**		**34%**
349	**CIW-3611**				**Rebar fix and formwork and concreting for the Inlet Works structure up to Ground Level (including ELS strut removal)**	**54 days**	**5月7日星期六**	**7月12日星期二**	**172 days**	**10月5日星期三**	**5月5日星期五**	**10**	**月5日星期三**	**NA**			**-37 days**		**48%**
350	CIW-NCE444		444		Enhancement work for Inlet Seepage Incident	0 days	NA	NA	36 days	10月5日星期三	11月15日星期二	10	月5日星期三	月15日星期二	11		0 days		100%
351	CIW-3611a				Installation of capping plate	0 days	NA	NA	11 days	12月13日星期二	12月24日星期六	12	月13日星期二	月24日星期六	12 343FS-15 days	353FS+16 days	0 days		100%
352	CIW-NCE444		444		Pile Cap works put on hold due to MTRCL	0 days	NA	NA	35 days	12月24日星期六	2月9日星期四	12	月24日星期六	月9日星期四	2	353FS-9 days	0 days		100%
353	CIW-3611b				R.C. works of pile cap to -6.0mPD	0 days	NA	NA	40 days	1月31日星期二	3月17日星期五	1	月31日星期二	NA	351FS+16 days,352FS-9	355SS+10 days,354SS+20 days,3	-169 days		1%
354	CIW-3611c				Vertical Blinding	0 days	NA	NA	2 days	2月23日星期四	2月24日星期五	2	月23日星期四	月24日星期五	2 353SS+20 days	355FF	0 days		100%
355	CIW-3611d				R.C. works of wall to -1.4mPD and cap with 500 kicker	0 days	NA	NA	19 days	2月11日星期六	3月4日星期六	2	月11日星期六	NA	353SS+10 days,354FF	356FS+2 days	-160 days		0%
356	CIW-3611e				Removal for 2nd and 3rd layer of ELS Strut	0 days	NA	NA	6 days	3月18日星期六	3月24日星期五	NA		NA	355FS+2 days,353	345SS+7 days,357	-169 days		0%
357	CIW-NCE302a		302		Additional Work due to Change in works information on Updated Civil Requirement for Basement Floor	0 days	NA	NA	5 days	3月25日星期六	3月30日星期四	NA		NA	356	358	-151 days		0%
358	CIW-3611f				R.C. works of wall up to +5.4mPD	0 days	NA	NA	7 days	3月31日星期五	4月12日星期三	NA		NA	357	359FS+2 days	-151 days		0%
359	CIW-3611g				Backfill and ELS Removal for 1st layer of strut	0 days	NA	NA	5 days	4月15日星期六	4月20日星期四	NA		NA	358FS+2 days	360	-151 days		0%
360	CIW-NCE302b		302		Additional Work due to Change in works information on Updated Civil Requirement for G/F	0 days	NA	NA	5 days	4月21日星期五	4月26日星期三	NA		NA	359	361	-151 days		0%
361	CIW-3611i				R.C. works of wall, channel and slab to +7.46mPD	0 days	NA	NA	5 days	4月27日星期四	5月3日星期三	NA		NA	360	398,362	-151 days		0%
362	CIW-PMI392			392	Additional Puddle	0 days	NA	NA	2 days	5月4日星期四	5月5日星期五	NA		NA	361	365	-151 days		0%
363	**CIW-3612**				**Rebar fix and formwork and concreting for the Inlet Works structure up to Roof Level**	**105 days**	**7月29日星期五**	**12月1日星期四**	**68 days**	**5月6日星期六**	**7月27日星期四**	**NA**		**NA**			**-151 days**		**0%**
364	**CIW-3612a**				**Lower ground floor to roof floor (+7.46mPD to +21.31mPD)**	**0 days**	**NA**	**NA**	**46 days**	**5月6日星期六**	**6月30日星期五**	**NA**		**NA**			**-151 days**		**0%**
365	CIW-3612b				R.C. works of wall and column to +13.45mPD	0 days	NA	NA	12 days	5月6日星期六	5月19日星期五	NA		NA	362	366	-151 days		0%
366	CIW-NCE302c		302		Additional Work due to Change in works information on Updated Civil Requirement	0 days	NA	NA	4 days	5月20日星期六	5月24日星期三	NA		NA	365	367	-151 days		0%
367	CIW-3612c				R.C. works for wall, column, beam and slab to +20.11mPD	0 days	NA	NA	15 days	5月25日星期四	6月12日星期一	NA		NA	366	368,393FS-5 days	-151 days		0%
368	CIW-3612d				R.C. works for wall and double slab to +21.31mPD	0 days	NA	NA	15 days	6月13日星期二	6月30日星期五	NA		NA	367	370	-151 days		0%
369	**CIW-3612e**				**Roof floor to upper roof floor (+21.36mPD to +27.5mPD)**	**0 days**	**NA**	**NA**	**22 days**	**7月3日星期一**	**7月27日星期四**	**NA**		**NA**			**-151 days**		**0%**
370	CIW-3612f				R.C. works for wall, beam and slab to +25.8mPD	0 days	NA	NA	10 days	7月3日星期一	7月13日星期四	NA		NA	368	394SS,371	-151 days		0%
371	CIW-NCE302d		302		Additional Work due to Change in works information on Updated Civil Requirement	0 days	NA	NA	4 days	7月14日星期五	7月18日星期二	NA		NA	370	372	-146 days		0%
372	CIW-3612g				R.C. works for beam and double slab to +27.5mPD	0 days	NA	NA	5 days	7月19日星期三	7月24日星期一	NA		NA	371	373	-146 days		0%
373	CIW-3612h				Remaining R.C. works	0 days	NA	NA	3 days	7月25日星期二	7月27日星期四	NA		NA	372	396,44FF	-146 days		0%
374	**CIW-3620**				**Phase C (Grid G3 to L7) North East Side**	**105 days**	**1月25日星期二**	**6月7日星期二**	**330 days**	**4月11日星期一**	**5月24日星期三**	**月11日星期一**	**4**	**NA**			**-40 days**		**70%**
375	**CIW-3621**				**Rebar fix and formwork and concreting for the pile cap (G/F) (including ELS strut removal)**	**40 days**	**1月25日星期二**	**3月15日星期二**	**230 days**	**4月11日星期一**	**1月18日星期三**	**月11日星期一**	**4**	**月18日星期三**	**1 344**		**0 days**		**100%**
376	CIW-36210				Capping Plate Installation (52nos.)	0 days	NA	NA	11 days	4月11日星期一	4月26日星期二	月11日星期一	4	月26日星期二	4	377	0 days		100%
377	CIW-3621a				R.C. works of pile cap +5.4mPD	0 days	NA	NA	53 days	4月27日星期三	6月30日星期四	月27日星期三	4	月30日星期四	6 376	378	0 days		100%
378	CIW-3621b				Backfilling and removal for first layer of strut	0 days	NA	NA	15 days	7月2日星期六	7月19日星期二	月2日星期六	7	月19日星期二	7 377	379	0 days		100%
379	CIW-3621c				R.C. works of wall and pile cap +7.53mPD	0 days	NA	NA	75 days	7月20日星期三	10月18日星期二	月20日星期三	7	月18日星期二	10 378	380	0 days		100%
380	CIW-3621d				R.C. works of pile cap to +8.93mPD	0 days	NA	NA	76 days	10月19日星期三	1月18日星期三	月19日星期三	10	月18日星期三	1 379	381	0 days		100%
381	**CIW-3622**				**Rebar fix and formwork and concreting up to +13.45mPD (1/F)**	**25 days**	**3月16日星期三**	**4月14日星期四**	**60 days**	**1月19日星期四**	**4月1日星期六**	**月19日星期四**	**1**	**NA**	**380**	**383,924,945,403**	**-121 days**		**2%**
382	**CIW-3623**				**Rebar fix and formwork and concreting up to +25.80mPD (R/F)**	**40 days**	**4月19日星期二**	**6月7日星期二**	**40 days**	**4月3日星期一**	**5月24日星期三**	**NA**		**NA**			**-94 days**		**0%**
383	CIW-3623a				R.C. works of column and wall (+13.45mPD to +20.11mPD)	0 days	NA	NA	15 days	4月3日星期一	4月24日星期一	NA		NA	381	384	-94 days		0%
384	CIW-3623b				R.C. works of column, wall, beam and slab (+20.11mPD to +25.8mPD)	0 days	NA	NA	20 days	4月25日星期二	5月18日星期四	NA		NA	383	385	-94 days		0%
385	CIW-3623c				Remaining R.C. works	0 days	NA	NA	5 days	5月19日星期五	5月24日星期三	NA		NA	384	396,44FF	-94 days		0%
386	**CIW-3630**				**Phase A (G1 to L3) ; South East Side**	**173 days**	**11月27日星期六**	**7月2日星期六**	**111 days**	**4月12日星期三**	**8月23日星期三**	**NA**		**NA**			**-169 days**		**0%**
387	**CIW-3631**				**Rebar fix and formwork and concreting for the Inlet Works structure up to Ground Level (including ELS demolition works)**	**54 days**	**11月27日星期六**	**2月4日星期五**	**54 days**	**4月12日星期三**	**6月15日星期四**	**NA**		**NA**	**345**		**-169 days**		**0%**
388	CIW-36310				Capping Plate Installation (60nos.)	0 days	NA	NA	14 days	4月12日星期三	4月27日星期四	NA		NA		389	-169 days		0%
389	CIW-3631a				R.C. works of pile cap to +7.46mPD	0 days	NA	NA	20 days	4月28日星期五	5月22日星期一	NA		NA	388	390	-169 days		0%
390	CIW-3631b				R.C. works of pile cap to +9.04mPD	0 days	NA	NA	20 days	5月23日星期二	6月15日星期四	NA		NA	389	391	-169 days		0%
391	**CIW-3632**				**Rebar fix and formwork and concreting for the Inlet Works structure up to Roof Level**	**105 days**	**2月22日星期二**	**7月2日星期六**	**57 days**	**6月16日星期五**	**8月23日星期三**	**NA**		**NA**	**390**		**-169 days**		**0%**
392	CIW-3632a				R.C. works for wall, beam and slab to +13.45mPD	0 days	NA	NA	15 days	6月16日星期五	7月5日星期三	NA		NA		393,401	-169 days		0%
393	CIW-3632b				R.C. works of column and wall (+13.45mPD to +20.21mPD)	0 days	NA	NA	15 days	7月6日星期四	7月22日星期六	NA		NA	392,367FS-5 days	394	-169 days		0%
394	CIW-3632c				R.C. works of column, wall, beam and slab (+20.21mPD to +25.8mPD)	0 days	NA	NA	20 days	7月24日星期一	8月15日星期二	NA		NA	393,370SS	395	-169 days		0%
395	CIW-3632d				Remaining R.C. works	0 days	NA	NA	7 days	8月16日星期三	8月23日星期三	NA		NA	394	44FF,396	-169 days		0%
396	CIW-3700	KD1C			Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	12月1日星期四	12月1日星期四	0 days	8月23日星期三	8月23日星期三	NA		NA	373,385,395	44FF,407,397	-169 days		0%
397	CIW-3750				Removal of 4th Layer strut	0 days	NA	NA	7 days	8月24日星期四	8月31日星期四	NA		NA	396	398	171 days		0%
398	CIW-4010				Application of waterproof coatings in Phase B	55 days	7月20日星期三	9月22日星期四	20 days	9月1日星期五	9月23日星期六	NA		NA	361,397	56FF,399FS+14 days	171 days		0%
399	CIW-3800				Water tightness test in Phase B	14 days	7月4日星期一	7月19日星期二	14 days	10月13日星期五	10月30日星期一	NA		NA	398FS+14 days	56FF	171 days		0%
400	CIW-4011				Water tightness test in Phase A	0 days	NA	NA	14 days	8月15日星期二	8月30日星期三	NA		NA	401FS+14 days		677 days		0%
401	CIW-4012				Application of waterproof coatings in Phase A	0 days	NA	NA	20 days	7月6日星期四	7月28日星期五	NA		NA	392	400FS+14 days	677 days		0%
402	CIW-4013				Water tightness test in Phase C	0 days	NA	NA	14 days	5月18日星期四	6月3日星期六	NA		NA	403FS+14 days		750 days		0%
403	CIW-4014				Application of waterproof coatings in Phase C	0 days	NA	NA	20 days	4月3日星期一	4月29日星期六	NA		NA	381	402FS+14 days	750 days		0%
404	CIW-NCE0485		485		**Discrepency between drawing specification and window schedule**	**0 days**	**NA**	**NA**	**100 days**	**4月25日星期二**	**8月24日星期四**	**NA**		**NA**			**683 days**		**0%**
405	CIW-NCE0485a				Material manufacturing	0 days	NA	NA	20 days	4月25日星期二	5月19日星期五	NA		NA	406SF		763 days		0%
406	CIW-NCE0485b				Delivery Time	0 days	NA	NA	80 days	5月19日星期五	8月24日星期四	NA		NA	409SF	405SF	683 days		0%
407	**CIW-4000**	SW1			**ABWF Works**	**90 days**	**12月2日星期五**	**3月23日星期四**	**180 days**	**8月24日星期四**	**4月3日星期三**	**NA**		**NA**	**211,161,396**		**46 days**		**0%**



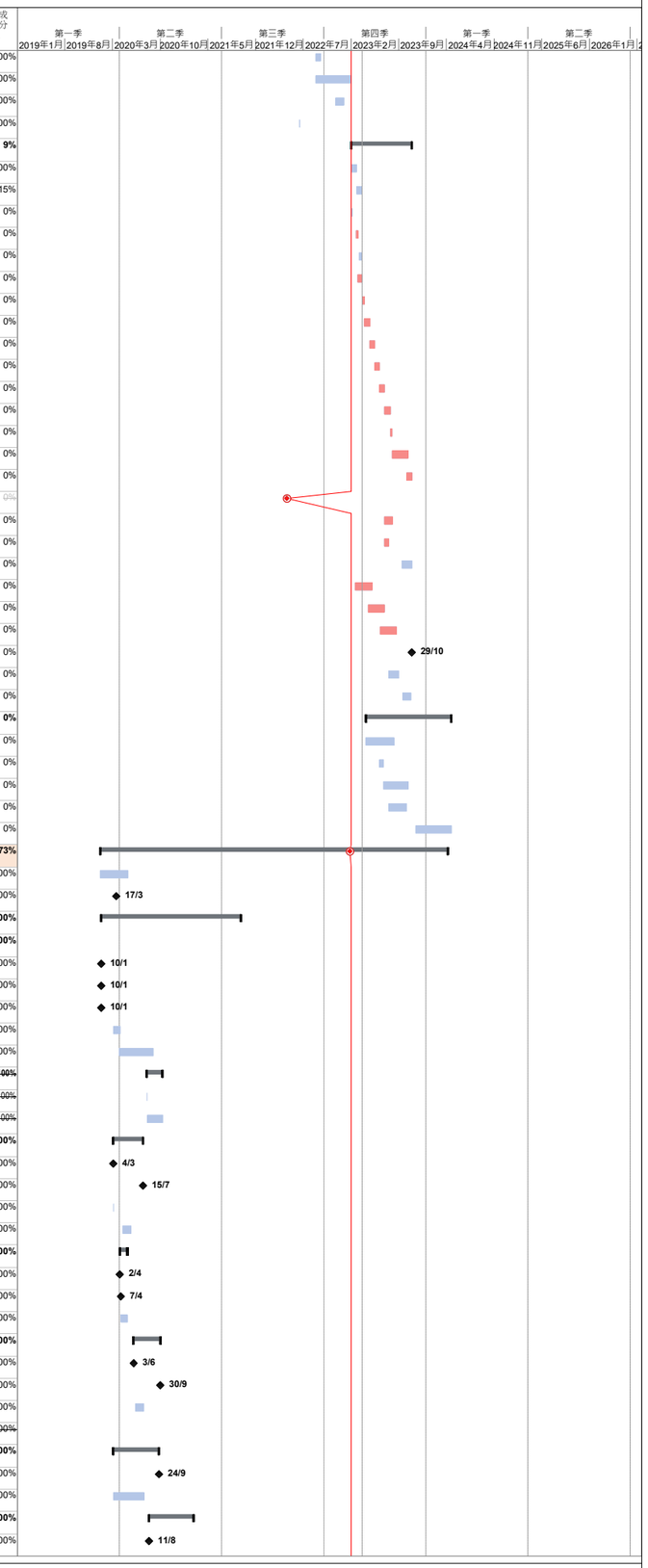
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk	All	完成百分比
408	CIW-4020				G/F ABWF Works	0 days	NA	NA	71 days	8月24日星期四	11月17日星期五	NA	NA		56FF	155 days			0%
409	CIW-4030				1/F ABWF Works	0 days	NA	NA	59 days	8月24日星期四	11月3日星期五	NA	NA		56FF,406SF	167 days			0%
410	CIW-4040				2/F ABWF Works	0 days	NA	NA	71 days	8月24日星期四	11月17日星期五	NA	NA		56FF	155 days			0%
411	CIW-4050				R/F ABWF Works	0 days	NA	NA	68 days	8月24日星期四	11月14日星期二	NA	NA		56FF	158 days			0%
412	CIW-4060				External Works	0 days	NA	NA	150 days	8月24日星期四	2月24日星期六	NA	NA		56FF,413	46 days			0%
413	CIW-NCE401		401		Extra Work due to revised tile pattern of external wall tiles	0 days	NA	NA	30 days	2月26日星期一	4月3日星期三	NA	NA	412	56FF	46 days			0%
414	**CPS-0000**	*			**Primary Sedimentation Tanks, B-3 (2)**	**1115 days**	**11月18日星期一**	**8月23日星期三**	**1214 days**	**11月18日星期一**	**12月20日星期三**	**月18日星期一**	**11**	**NA**	**8**		**127 days**		**68%**
415	CPS-1000				Operation of the Existing Primary sedimentation Tanks	615 days	11月18日星期一	7月24日星期六	615 days	11月18日星期一	7月24日星期六	月18日星期一	11	月24日星期六	7 2	417	0 days			100%
416	CPS-1100			88	Identification of existing cables near Primary Sedimentation Tank	3 days	2月19日星期五	2月22日星期一	0 days	2月19日星期五	2月19日星期五	月19日星期五	2	月19日星期五	2		0 days			100%
417	CPS-1200				Removal of residual sludge	6 days	8月11日星期三	8月17日星期二	6 days	8月11日星期三	8月17日星期二	月11日星期三	8	月17日星期二	8 4 15	423,424	0 days			100%
418	CPS-1300a		217,246	(217)	Handover delay of existing PSTs due to the operational requirement of PSTs before decommissioning of electrical power supply of existing PST No. 1	34 days	7月27日星期二	9月3日星期五	16 days	7月27日星期二	8月13日星期五	月27日星期二	7	月13日星期五	8	423	0 days			100%
419	CPS-1300b		217,246		Handover delay of existing PSTs due to the operational requirement of PSTs before decommissioning of electrical power supply of existing PST No. 2	0 days	NA	NA	34 days	7月27日星期二	9月3日星期五	月27日星期二	7	月3日星期五	9	420,424	0 days			100%
420	CPS-1400			380,408,422, 439, 486, 474, 481, 533,535	Control and Power Cable Realignment Works for Existing PST,Cable Laying Works from Existing SAS Consolidation House, Laying of New Fiber and Associated Cable Survey and Identification Works for Existing Compressor House and SAS Consolidation House	109 days	6月22日星期二	10月30日星期六	109 days	6月22日星期二	10月30日星期六	月22日星期二	6	月30日星期六	10 4 19	423SS+2 emons,424SS+2 emons	0 days			100%
421	CPS-PMI-486a		214	486	Additional Cleansing Works of Cable Draw Pit due to Seepage of Sewage in the Vicinity of PST No.1 and 2	0 days	NA	NA	12 days	7月6日星期二	7月19日星期一	月6日星期二	7	月19日星期一	7	434FF	0 days			100%
422	CPS-PMI-439			439	Laying of New Fiber and Associated Cable Survey and Identification Works	0 days	NA	NA	72 days	8月5日星期四	10月30日星期六	月5日星期四	8	月30日星期六	10	423	0 days			100%
423	CPS-2000			435	Demolition of existing primary sedimentation tanks no. 1	15 days	8月19日星期四	9月15日星期三	15 days	8月19日星期四	9月15日星期三	月19日星期四	8	月15日星期三	9 142,180,182,420SS+2 er	427	0 days			100%
424	CPS-2000a			435	Demolition of existing primary sedimentation tanks no. 2	16 days	9月16日星期四	10月6日星期三	12 days	9月16日星期四	9月30日星期四	月16日星期四	9	月30日星期四	9 4 19,142,180,182,420SS+	427	0 days			100%
425	CPS-2000b		312		Additional modification works of access to primary sludge drawoff chamber	0 days	NA	NA	4 days	5月11日星期三	5月14日星期六	月11日星期三	5	月14日星期六	5		0 days			100%
426	CPS-3000a				Predrilling (5nrs, 1rigs, 3days/drillhole/rig) - In-advanced stage	13 days	4月8日星期四	4月22日星期四	13 days	4月8日星期四	4月22日星期四	月8日星期四	4	月22日星期四	4	431	0 days			100%
427	CPS-3000				Predrilling (36nrs, 3rigs, 3days/drillhole/rig)	38 days	10月7日星期四	11月20日星期六	66 days	10月7日星期四	12月23日星期四	月7日星期四	10	月23日星期四	12 147,753,423,424	428	0 days	1		100%
428	CPS-PMI-588			588	Existing DN80 and DN100 MBR Pre-Treatment Screen Pipe to be demolished	0 days	NA	NA	12 days	12月24日星期五	1月10日星期一	月24日星期五	12	月10日星期一	1 427	429	0 days			100%
429	CPS-PMI-587		248	587	Temporary Diversion of DN100 Pre-Treatment Screen Pipe to Sludge Draw-off Chamber No.1	0 days	NA	NA	15 days	2月10日星期四	2月26日星期六	月10日星期四	2	月26日星期六	2 428		0 days			100%
430	CPS-PMI-584			584	Removal of Existing Left-in Sheetpiles at Excavated Trench for DN250 SAS Pipeline near SAS Consolidation House	0 days	NA	NA	3 days	12月20日星期一	12月22日星期三	月20日星期一	12	月22日星期三	12	431	0 days			100%
431	CPS-4000				Pre-bored H piles (136nos, 2.5rigs, 2days/pile/rig)	164 days	11月22日星期一	6月15日星期三	157 days	12月24日星期五	7月11日星期一	月24日星期五	12	月11日星期一	7 152,754,426,430	439,437,434FS-50 days,432FF	0 days	5		100%
432	CPS-NCE-424		424		Additional time for Socket H-Pile due to revised rock head level	0 days	NA	NA	25 days	6月11日星期六	7月11日星期一	月11日星期六	6	月11日星期一	7 431FF		0 days			100%
433	CPS-PMI-762		314	762	Relocation of Exitsing Cable near Flow Distribution Chamber No.1	0 days	NA	NA	2 days	6月23日星期四	6月24日星期五	月23日星期四	6	月24日星期五	6		0 days			100%
434	CPS-5000				Sheetpile Installation (FSP-II, 3360sq.m, 1rigs, 50sqm/rig/day)	42 days	4月27日星期三	6月17日星期五	115 days	5月12日星期四	9月26日星期一	月12日星期四	5	月26日星期一	9 153,431FS-50 days,421F	439,1224FS+30 days,436FF,435F	0 days			100%
435	CPS-NCE369		369		Additional Removal Work of uncharted concrete	0 days	NA	NA	2 days	6月4日星期六	6月6日星期一	月4日星期六	6	月6日星期一	6 434FF		0 days			100%
436	CPS-NCE389		389		Revised Sheetpile Alignment due to unforeseen concrete surround	0 days	NA	NA	7 days	8月6日星期六	8月13日星期六	月6日星期六	8	月13日星期六	8 434FF		0 days			100%
437	CPS-6000				Pile Load Test	26 days	6月16日星期四	7月16日星期六	11 days	7月18日星期一	7月30日星期六	月18日星期一	7	月30日星期六	7 431	438	0 days			100%
438	**CPS-7000**				**ELS works (20000cu.m soil with 2 layers wailing / strutting)**	**60 days**	**7月18日星期一**	**9月26日星期一**	**88 days**	**9月16日星期五**	**12月31日星期六**	**月16日星期五**	**9**	**月31日星期六**	**12 437**		**0 days**		**100%**
439	CPS-7000a				ELS works for Zone A	0 days	NA	NA	67 days	9月16日星期五	12月15日星期四	月16日星期五	9	月15日星期四	12 431,155,434	444FF-3 emons,186SF,190SF,44	0 days	3		100%
440	CPS-7000a				ELS works for Zone B	0 days	NA	NA	76 days	9月30日星期五	12月31日星期六	月30日星期五	9	月31日星期六	12		0 days			100%
441	CPS-NCE-417		417		Additional Cleaning due to unexpected sewage overflow incident	0 days	NA	NA	19 days	11月2日星期三	11月23日星期三	月2日星期三	11	月23日星期三	11 439FF	442	0 days			100%
442	CPS-NCE-451		451		Additional Work due to unexpected sewage overflow incident	0 days	NA	NA	24 days	11月23日星期三	12月20日星期二	月23日星期三	11	月20日星期二	12 441,439FF		0 days			100%
443	CPS-NCE-441		441 (143)		Unsuitable Excavated Material	0 days	NA	NA	30 days	11月23日星期三	12月29日星期四	月23日星期三	11	月29日星期四	12 439FF		0 days			100%
444	CPS-7900				Receiving of Civil Requirements from PM	1 day	6月28日星期二	6月28日星期二	1 day	5月6日星期五	5月6日星期五	月6日星期五	5	月6日星期五	5 439FF-3 emons		0 days			100%
445	**CPS-8000**				**R.C. Structure works (including ELS strut removal works)**	**84 days**	**9月27日星期二**	**1月7日星期六**	**192 days**	**1月3日星期二**	**8月27日星期日**	**月3日星期二**	**1**	**NA**		**483**	**0 days**		**24%**
446	**CPS-8100**				**Right Hand Side G.L. 7-11 / D-H (Zone A)**	**0 days**	**NA**	**NA**	**192 days**	**1月3日星期二**	**8月27日星期日**	**月3日星期二**	**1**	**NA**			**0 days**		**19%**
447	**CPS-8110**				**RC structure for Pile Cap**	**0 days**	**NA**	**NA**	**76 days**	**1月3日星期二**	**4月4日星期二**	**月3日星期二**	**1**	**NA**			**-7 days**		**60%**
448	CPS-8111a				Capping Plate Installation	0 days	NA	NA	12 days	1月3日星期二	1月16日星期一	月3日星期二	1	月16日星期一	1 439	449	0 days			100%
449	CPS-8111				Waterproofing Membrane laying	0 days	NA	NA	7 days	1月17日星期二	1月27日星期五	月17日星期二	1	月27日星期五	1 448	450	0 days			100%
450	CPS-8112				Vertical Blinding and mass fill	0 days	NA	NA	10 days	1月28日星期六	2月8日星期三	月28日星期六	1	月8日星期三	2 449	451	0 days			100%
451	CPS-8113				RC works for Pile Cap (-1.3mPD)	0 days	NA	NA	40 days	2月9日星期四	3月27日星期一	月9日星期四	2	NA	450	452,475SS+18 days	-146 days			42%
452	CPS-8114				Backfilling and Removal of 3rd layer of Strut (+0mPD)	0 days	NA	NA	7 days	3月28日星期二	4月4日星期二	NA		NA	451	454	-146 days			0%
453	**CPS-8120**				**RC structure to 2nd layer of strut**	**0 days**	**NA**	**NA**	**19 days**	**4月6日星期四**	**5月2日星期二**	**NA**		**NA**			**-146 days**		**0%**
454	CPS-8121				RC works for wall, column	0 days	NA	NA	12 days	4月6日星期四	4月22日星期六	NA		NA	452	455	-146 days			0%
455	CPS-8123				Backfilling and removal of 2nd layer of strut (+3mPD)	0 days	NA	NA	7 days	4月24日星期一	5月2日星期二	NA		NA	454	460,457	-146 days			0%
456	**CPS-8130**				**RC structure to 1st layer of strut**	**0 days**	**NA**	**NA**	**36 days**	**5月3日星期三**	**6月14日星期三**	**NA**		**NA**			**-146 days**		**0%**
457	CPS-8131				RC works for wall, column and beam	0 days	NA	NA	12 days	5月3日星期三	5月16日星期二	NA		NA	455	458,460	-146 days			0%
458	CPS-8133				Backfilling and removal of 1st layer of strut (+6.5mPD)	0 days	NA	NA	7 days	5月17日星期三	5月24日星期三	NA		NA	457	459	-124 days			0%
459	CPS-8134				Backfilling and removal of 1st layer of strut (+4.9mPD) in Zone A	0 days	NA	NA	7 days	5月25日星期四	6月2日星期五	NA		NA	458	463	-124 days			0%
460	CPS-NCE-392a		392		Additional Work due to Change in works information on Updated Civil Requirement	0 days	NA	NA	24 days	5月17日星期三	6月14日星期三	NA		NA	455,457	462	-146 days			0%
461	**CPS-8140**				**RC structure to +7.2mPD (Ground Floor)**	**0 days**	**NA**	**NA**	**21 days**	**6月15日星期四**	**7月11日星期二**	**NA**		**NA**			**-146 days**		**0%**
462	CPS-8141				RC works for beam and slab	0 days	NA	NA	12 days	6月15日星期四	6月29日星期四	NA		NA	460	489,463	-146 days			0%
463	CPS-NCE-392b		392		Additional Work due to Change in works information on Updated Civil Requirement	0 days	NA	NA	9 days	6月30日星期五	7月11日星期二	NA		NA	459,462	465FS-5 days	-146 days			0%
464	**CPS-8150**				**RC structure to +12.2mPD (Coping Level)**	**0 days**	**NA**	**NA**	**45 days**	**7月6日星期四**	**8月27日星期日**	**NA**		**NA**		**486**	**-146 days**		**0%**
465	CPS-8151				RC works to +8.15mPD (Switch Room)	0 days	NA	NA	18 days	7月6日星期四	7月26日星期三	NA		NA	463FS-5 days	466FS-5 days	-146 days			0%
466	CPS-8152				RC works to +11.95mPD (Switch Room)	0 days	NA	NA	18 days	7月21日星期五	8月10日星期四	NA		NA	465FS-5 days	467FS-5 days,490	-146 days			0%
467	CPS-8153				RC works to +12.20mPD (Coping Level)	0 days	NA	NA	12 days	8月5日星期六	8月18日星期五	NA		NA	466FS-5 days	491,468	-146 days			0%
468	CPS-NCE-392c		392		Additional Work due to Change in works information on Updated Civil Requirement	0 days	NA	NA	30 days	7月24日星期一	8月27日星期日	NA		NA	467		-23 days			0%
469	**CPS-8200**				**Left Hand Side G.L. 1-5 / D-H (Zone B)**	**0 days**	**NA**	**NA**	**127 days**	**1月3日星期二**	**6月9日星期五**	**月3日星期二**	**1**	**NA**			**-81 days**		**35%**
470	**CPS-8210**				**RC structure for Pile Cap**	**0 days**	**NA**	**NA**	**78 days**	**1月3日星期二**	**4月11日星期二**	**月3日星期二**	**1**	**NA**			**-32 days**		**60%**
471	CPS-8211a				Capping Plate Installation	0 days	NA	NA	10 days	1月3日星期二	1月13日星期五	月3日星期二	1	月13日星期五	1 439	472	0 days			100%
472	CPS-8211				Vertical Blinding and mass fill	0 days	NA	NA	5 days	1月14日星期六	1月19日星期四	月14日星期六	1	月19日星期四	1 471	473	0 days			100%
473	CPS-8212				Waterproofing Membrane laying	0 days	NA	NA	7 days	1月20日星期五	1月31日星期二	月20日星期五	1	月31日星期二	1 472	474	0 days			100%
474	CPS-8213				RC works for Pile Cap for G.L. 1-5	0 days	NA	NA	24 days	2月1日星期三	2月28日星期二	月1日星期三	2	月28日星期二	2 473	475	0 days			100%



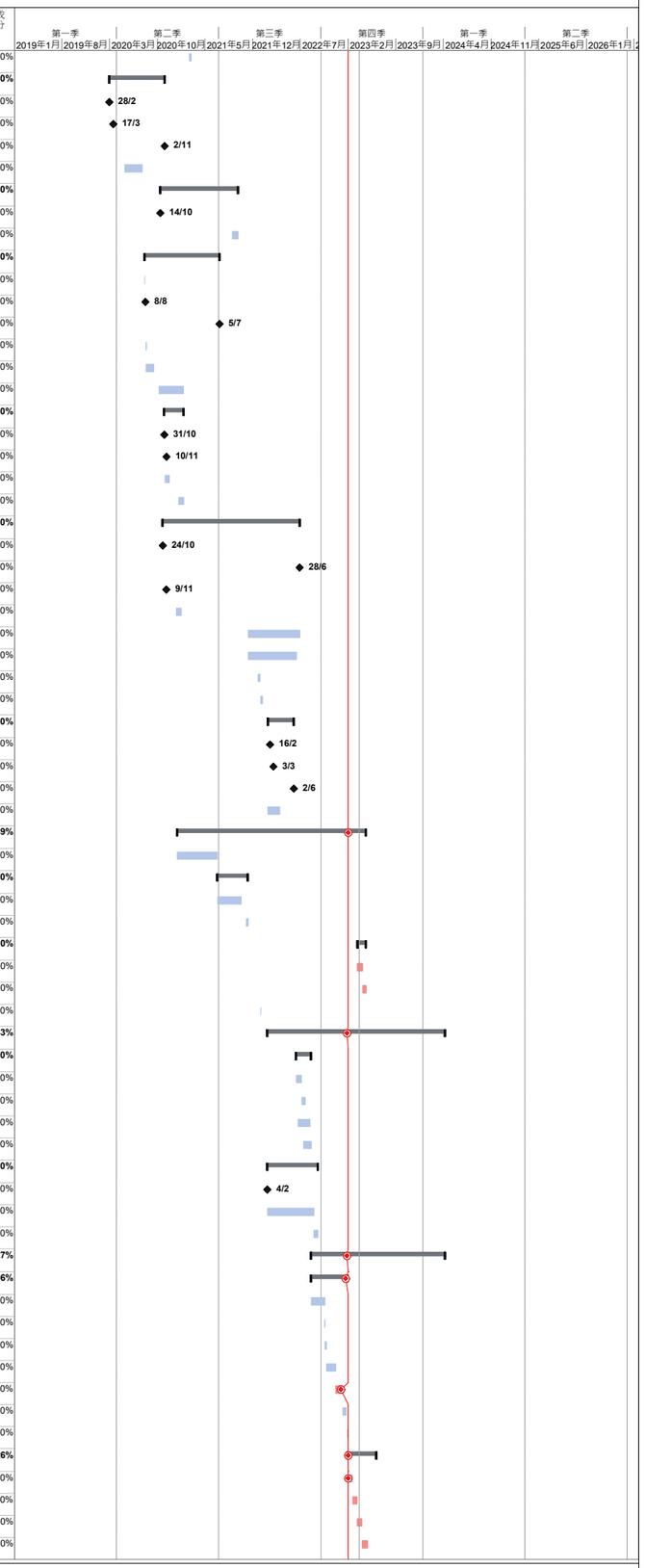
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
475	CPS-8214				RC works for Pile Cap for G.L. 5-7	0 days	NA	NA	24 days	3月2日星期四	3月29日星期三	NA	NA	474,451SS+18 days	476	-88 days		0%
476	CPS-8215				Backfilling and Removal of 2nd layer of Strut (+3mPD)	0 days	NA	NA	7 days	3月30日星期四	4月11日星期二	NA	NA	475	478	-88 days		0%
477	**CPS-8220**				**RC structure to 1st layer of strut**	**0 days**	**NA**	**NA**	**19 days**	**4月12日星期三**	**5月4日星期四**	**NA**	**NA**			**-88 days**		**0%**
478	CPS-8221				RC works for wall, column	0 days	NA	NA	12 days	4月12日星期三	4月25日星期二	NA	NA	476	479,488	-88 days		0%
479	CPS-8222				Backfilling and removal of 1st layer of strut (+6.5mPD)	0 days	NA	NA	7 days	4月26日星期三	5月4日星期四	NA	NA	478	489,481	-88 days		0%
480	**CPS-8230**				**RC structure to +16.9mPD (Roof Level)**	**0 days**	**NA**	**NA**	**30 days**	**5月5日星期五**	**6月9日星期五**	**NA**	**NA**			**-88 days**		**0%**
481	CPS-NCE-392d		392		Additional Work due to Change in works information on Updated Civil Requirement	0 days	NA	NA	16 days	5月5日星期五	5月23日星期二	NA	NA	479	482FS-6 days	-88 days		0%
482	CPS-8232				RC works to +16.90mPD (Roof Level)	0 days	NA	NA	20 days	5月17日星期三	6月9日星期五	NA	NA	481FS-6 days	491,483	-88 days		0%
483	CPS-9000	KD1D			Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2月20日星期一	2月20日星期一	0 days	8月27日星期日	8月27日星期日	NA	NA	445,482	45FF	-153 days		0%
484	CPS-9100				Water tightness test to the tanks (no. 1&3)	14 days	1月9日星期一	1月27日星期五	14 days	11月2日星期四	11月17日星期五	NA	NA	486FS+14 days	56FF,485FS+14 days	127 days		0%
485	CPS-9200				Water tightness test to the tanks (no. 2&4)	0 days	NA	NA	14 days	12月5日星期二	12月20日星期三	NA	NA	484FS+14 days	56FF	127 days		0%
486	CPS-9300				Application of waterproof coatings in the tanks	20 days	1月28日星期六	2月20日星期一	40 days	8月28日星期一	10月14日星期六	NA	NA	464	56FF,484FS+14 days	127 days		0%
487	**CPS-10000**	**SW1**			**ABWF works + BS works**	**150 days**	**2月21日星期二**	**8月23日星期三**	**187 days**	**4月26日星期三**	**12月7日星期四**	**NA**	**NA**	**211,161**		**138 days**		**0%**
488	CPS-10010				B/F ABWF Works	0 days	NA	NA	49 days	4月26日星期三	6月24日星期六	NA	NA	478	56FF	276 days		0%
489	CPS-10020				G/F ABWF Works	0 days	NA	NA	54 days	6月30日星期五	9月1日星期五	NA	NA	462,479	56FF	218 days		0%
490	CPS-10030				Coping Level ABWF Works	0 days	NA	NA	99 days	8月11日星期五	12月7日星期四	NA	NA	466	56FF,492SS	138 days		0%
491	CPS-10040				R/F ABWF Works	0 days	NA	NA	68 days	8月19日星期六	11月9日星期四	NA	NA	467,482	56FF,493SS	162 days		0%
492	CPS-10050				External Works	0 days	NA	NA	75 days	8月11日星期五	11月9日星期四	NA	NA	490SS	56FF	162 days		0%
493	CPS-10060				Staircase Works	0 days	NA	NA	58 days	8月19日星期六	10月28日星期六	NA	NA	491SS	56FF	172 days		0%
494	**CBR-0000**	*			**Bioreactors No.2A & 2B, B-4 (3)**	**1237 days**	**11月18日星期一**	**1月19日星期五**	**1058 days**	**9月23日星期三**	**4月22日星期一**	**月23日星期三9**	**NA**	**9**		**488 days**		**65%**
495	**CBR-1000**				**Operation of 2no. Existing 800mm air mains over bioreactor no.2**	**360 days**	**11月18日星期一**	**2月2日星期二**	**107 days**	**9月23日星期三**	**2月1日星期一**	**月23日星期三9**	**月1日星期一**	**2 2**		**0 days**		**100%**
496	CBR-2000			67	Construction of Removable Steel Shutter in the Common Channel of BR2 and 3	86 days	10月1日星期四	1月15日星期五	86 days	10月1日星期四	1月15日星期五	月1日星期四10	月15日星期五1	164	506	0 days		100%
497	CBR-4100			95	Take Down E&M Equipment & cables in Bioreactor BR2 and Return to DSD	8 days	9月23日星期三	10月3日星期六	8 days	9月23日星期三	10月3日星期六	月23日星期三9	月3日星期六10		507	0 days		100%
498	CBR-4200			219	Installation of monitoring points before demolition of BR2	5 days	1月27日星期三	2月1日星期一	5 days	1月27日星期三	2月1日星期一	月27日星期三1	月1日星期一2	504	499	0 days		100%
499	CBR-4300				Condition Survey for BR2	1 day	10月30日星期五	10月30日星期五	0 days	10月30日星期五	10月30日星期五	月30日星期五10	月30日星期五10	498	507	0 days		100%
500	CBR-5000				Demolition of existing bioreactor no.2	98 days	11月10日星期二	3月10日星期三	98 days	11月10日星期二	3月10日星期三	月10日星期二11	月10日星期三3	142,182		0 days		100%
501	CBR-5100			210	Identification and removal of existing cables on air main pipe bridge	35 days	11月10日星期二	12月19日星期六	35 days	11月10日星期二	12月19日星期六	月10日星期二11	月19日星期六12		502,506	0 days		100%
502	CBR-5300				Plugging and demolition of existing DN800 air main	5 days	12月28日星期一	1月2日星期六	5 days	12月28日星期一	1月2日星期六	月28日星期一12	月2日星期六1	501		0 days		100%
503	CBR-5200			264	Diversion of existing lighting cable and Earthing ducts_stage 1	43 days	12月4日星期五	1月26日星期二	43 days	12月4日星期五	1月26日星期二	月4日星期五12	月26日星期二1	504	507	0 days		100%
504	CBR-5400			285	Overflow incident from BR1 to BR2 works area no.1 (Dec 2020)	33 days	12月18日星期五	1月28日星期四	33 days	12月18日星期五	1月28日星期四	月18日星期五12	月28日星期四1	505	498,503	0 days		100%
505	CBR-5410			340	Overflow incident from BR1 to BR2 works area (Feb 2021)	8 days	2月16日星期二	2月24日星期三	8 days	2月16日星期二	2月24日星期三	月16日星期二2	月24日星期三2	506	504,507	0 days		100%
506	CBR-3000			277	Construction of Isolation Wall & stoplog in common channel of BR2 & BR3	43 days	1月16日星期六	3月10日星期三	43 days	1月16日星期六	3月10日星期三	月16日星期六1	月10日星期三3	496,501	505	0 days		100%
507	CBR-5500a				Demolition of existing pipe bridge, partition wall and base slab (Stage 1)	26 days	2月2日星期二	3月6日星期六	26 days	2月2日星期二	3月6日星期六	月2日星期二2	月6日星期六3	503,499,505,497	508SS,509	0 days		100%
508	CBR-5520			(174)	Removal of additional concrete infill within the partition walls	26 days	2月2日星期二	3月6日星期六	26 days	2月2日星期二	3月6日星期六	月2日星期二2	月6日星期六3	507SS	509	0 days		100%
509	CBR-5900			322	Construction of precautionary measures (i.e. isolation wall)	2 days	3月9日星期二	3月10日星期三	2 days	3月9日星期二	3月10日星期三	月9日星期二3	月10日星期三3	507,508	510,512	0 days		100%
510	CBR-5905			305	Construction of precautionary measures (i.e. bund wall)	3 days	4月15日星期四	4月17日星期六	3 days	4月15日星期四	4月17日星期六	月15日星期四4	月17日星期六4	509		0 days		100%
511	CBR-5910			209	Removal of abandoned DN250 air pipe	6 days	4月20日星期二	4月26日星期一	6 days	4月20日星期二	4月26日星期一	月20日星期二4	月26日星期一4			0 days		100%
512	CBR-6000				Predrilling (33nrs, 3rigs, 2days/drillhole/rig)_stage 1	44 days	3月1日星期一	5月5日星期三	53 days	3月1日星期一	5月5日星期三	月1日星期一3	月5日星期三5	509	513	0 days		100%
513	CBR-7000				Pre-bored H piles (131nos, 2rigs, 2days/pile/rig)_stage 1	113 days	5月6日星期四	9月17日星期五	123 days	5月6日星期四	9月30日星期四	月6日星期四5	月30日星期四9	512	532SS+30 days,515SS+45 days	0 days	5	100%
514	**CBR-7100**				**External works between BR2 and MFB2**	**217 days**	**6月30日星期三**	**3月21日星期一**	**332 days**	**6月30日星期三**	**8月11日星期四**	**月30日星期三6**	**月11日星期四8**			**0 days**		**100%**
515	CBR-7110		224, 270,	511	DN700 (CHER)RAS Diversion	75 days	6月30日星期三	9月27日星期一	153 days	6月30日星期三	12月31日星期五	月30日星期三6	月31日星期五12	513SS+45 days	533,516FF	0 days		100%
516	CBR-PMI-691			691	Trimming of existing concrete surround for connection of DN700 RAS Diversion Pipe(CHER)	0 days	NA	NA	40 days	10月25日星期一	12月9日星期四	月25日星期一10	月9日星期四12	515FF		0 days		100%
517	CBR-7115		224		DN150 SAS pipe near RAS pumping station	5 days	6月30日星期三	7月6日星期二	5 days	6月30日星期三	7月6日星期二	月30日星期三6	月6日星期二7		518SS	0 days		100%
518	CBR-7120				Temporary vehicle diversion for RAS operation	6 days	8月23日星期一	8月28日星期六	6 days	8月23日星期一	8月28日星期六	月23日星期一8	月28日星期六8	517SS		0 days		100%
519	**CBR-7130**			**482**	**DN600 Temporary Sewage Diversion**	**127 days**	**6月30日星期三**	**11月29日星期一**	**247 days**	**6月30日星期三**	**4月29日星期五**	**月30日星期三6**	**月29日星期五4**			**0 days**		**100%**
520	CBR-7130a		111,113,2	353	Confirmation of Manhole and Alignment of existing DN600 Tank Drain	0 days	NA	NA	70 days	6月30日星期三	9月20日星期一	月30日星期三6	月20日星期一9			0 days		100%
521	CBR-7130b		292	353	DN250 SAS concrete pipe diversion by PE 250 pipe	0 days	NA	NA	85 days	1月4日星期二	4月20日星期三	月4日星期二1	月20日星期三4		522	0 days		100%
522	CBR-7130b1		290	711	Uncharted Pipework diversion for DN25, DN50 GI Pipe, DN25 Irrigation Pipe	0 days	NA	NA	10 days	4月19日星期二	4月29日星期五	月19日星期二4	月29日星期五4	521		0 days		100%
523	CBR-7130c		234	204	Revise Detail and construction of MHTD1	0 days	NA	NA	59 days	11月19日星期五	1月29日星期六	月19日星期五11	月29日星期六1			0 days		100%
524	CBR-7130d		234	204	Revise Detail and construction of MHTD2	0 days	NA	NA	59 days	11月19日星期五	1月29日星期六	月19日星期五11	月29日星期六1		1517SS,1543SS	0 days		100%
525	CBR-7132		111, 113,	204, 353	Existing DN600 tank drain diversion	75 days	10月18日星期一	1月15日星期六	75 days	1月17日星期一	4月21日星期四	月17日星期一1	月21日星期四4		528	0 days		100%
526	CBR-PMI-565b			565	Clearance of Sludge in Works Area near RAS Pump Station	0 days	NA	NA	5 days	12月24日星期五	12月31日星期五	月24日星期五12	月31日星期五12	533	534	0 days		100%
527	CBR-PMI-624			624	Remove Existing Cables and E&M Equipment at the Inlet Side of BR2	0 days	NA	NA	1 day	2月15日星期二	2月15日星期二	月15日星期二2	月15日星期二2			0 days		100%
528	CBR-7140				Temporary earth retaining measure (Open Cut)	7 days	1月17日星期一	1月24日星期一	7 days	4月22日星期五	4月29日星期五	月22日星期五4	月29日星期五4	525	529	0 days		100%
529	CBR-7141			353, 336	Demolition of abandoned DN600 pipe and existing surrounded wall & channel of BR2	45 days	1月25日星期二	3月21日星期一	45 days	4月30日星期六	6月24日星期五	月30日星期六4	月24日星期五6	528	530	0 days		100%
530	CBR-7150				Pre-drilling(3nr.) & Pre-bored H piles (11nrs, 1rig, 2days/drillhole/rig)_stage 2A	26 days	3月22日星期二	4月25日星期一	44 days	5月9日星期一	6月30日星期四	月9日星期一5	月30日星期四6	529	531,563FF	0 days		100%
531	CBR-7160				Proof Drilling Test	26 days	4月26日星期二	5月27日星期五	8 days	8月3日星期三	8月11日星期四	月3日星期三8	月11日星期四8	530,541	544	0 days		100%
532	**CBR-7200**				**External works between BR2 and PST**	**226 days**	**6月30日星期三**	**3月31日星期四**	**191 days**	**6月30日星期三**	**2月18日星期五**	**月30日星期三6**	**月18日星期五2**	**513SS+30 days**		**0 days**		**100%**
533	CBR-7210		226, 234,	91, 449, 511, 481, 535	Demolition of existing DN1200. DN900 and DN500 pipe (w/ ELS works)	153 days	6月30日星期三	12月31日星期五	175 days	6月30日星期三	1月27日星期四	月30日星期三6	月27日星期四1	515	1367SS,542,526	0 days		100%
534	CBR-7231			336	Demolition of existing side wall	12 days	2月26日星期六	3月11日星期五	12 days	1月28日星期五	2月14日星期一	月28日星期五1	月14日星期一2	526	541	0 days		100%
535	CBR-7340				Demolition of existing side wall between BR2 & BR3 and baseslab	60 days	9月18日星期六	11月30日星期二	86 days	8月19日星期四	11月30日星期二	月19日星期四8	月30日星期二11			0 days		100%
536	CBR-PMI529a			529	Relocation of Existing Lamp Post and Water Hydrant, demolition of existing concrete plinth and concrete stair	0 days	NA	NA	2 days	9月16日星期四	9月17日星期五	月16日星期四9	月17日星期五9			0 days		100%
537	CBR-PMI529b			529	Relocation of Existing Lamp Post and Water Hydrant, demolition of existing concrete plinth and concrete stair	0 days	NA	NA	2 days	10月22日星期五	10月23日星期六	月22日星期五10	月23日星期六10			0 days		100%
538	CBR-PMI529c			529	Relocation of Existing Lamp Post and Water Hydrant, demolition of existing concrete plinth and concrete stair	0 days	NA	NA	2 days	1月17日星期一	1月18日星期二	月17日星期一1	月18日星期二1			0 days		100%
539	CBR-7220		225, 287	264, 529	Diversion of existing lighting cable and Earthing ducts (w/ ELS)	30 days	1月3日星期一	2月9日星期三	11 days	2月7日星期一	2月18日星期五	月7日星期一2	月18日星期五2		542FS+30 days	0 days		100%
540	CBR-7230				Temporary earth retaining measure (ELS)	14 days	2月10日星期四	2月25日星期五	20 days	11月10日星期三	12月2日星期四	月10日星期三11	月2日星期四12			0 days		100%
541	CBR-7240		274		Pre-bored H piles (15nrs, 2rig, 2days/drillhole/rig)_stage 2B	24 days	3月12日星期六	4月9日星期六	35 days	5月30日星期一	7月11日星期一	月30日星期一5	月11日星期一7	534	531,542FS-40 days	0 days		100%
542	CBR-8000				Sheetpile Installation (3000sq.m, 1rigs, 50sqm/rig/day)	60 days	5月28日星期六	8月8日星期一	78 days	5月14日星期六	8月24日星期三	月14日星期六5	月24日星期三8	533,539FS+30 days,541	543,544	0 days		100%



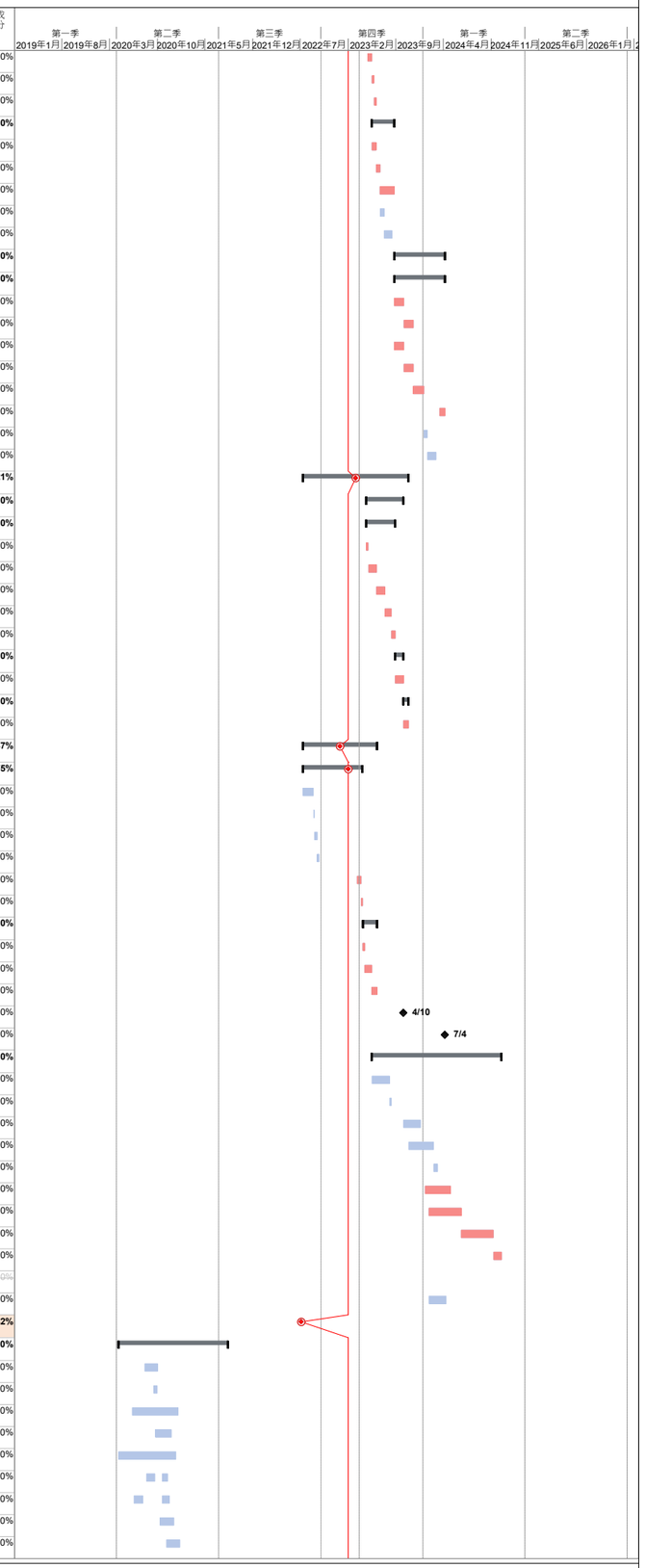
識別碼	Activity ID	Key Date	NCE/(EW)	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
543	CBR-NCE-410		410		Unexpected Ground Condition	0 days	NA	NA	18 days	8月25日星期四	9月15日星期四	月25日星期四	8月15日星期四	9 542	544FF	0 days		100%
544	CBR-10000				ELS works (18100cu.m soil with 4 layers wailing / strutting)	80 days	8月9日星期二	11月12日星期六	128 days	8月25日星期四	1月31日星期二	月25日星期四	8月31日星期二	1 155,531,187,191,542,543	546FF-3 emons,547,545FF	0 days	3	100%
545	CBR-NCE-441		441 (143)		Unsuitable Excavated Material	0 days	NA	NA	30 days	11月23日星期三	12月29日星期四	月23日星期三	11月29日星期四	12 544FF		0 days		100%
546	CBR-10900				Receiving of Civil Requirements from PM	1 day	8月13日星期六	8月14日星期日	1 day	6月14日星期二	6月14日星期二	月14日星期二	月14日星期二	6 544FF-3 emons	547SS-3 emons	0 days		100%
547	**CBR-11000**				**R.C. Structure works (including ELS strut removal)**	**136 days**	**11月14日星期一**	**5月3日星期三**	**221 days**	**2月1日星期三**	**10月29日星期日**	**月1日星期三**	**NA**	**158,208,209,212,210,544**	**567SS+15 days**	**629 days**		**9%**
548	CBR-11090				Capping Plate Installation	0 days	NA	NA	20 days	2月1日星期三	2月23日星期四	月1日星期三	月23日星期四	2	549,551FS-1 day	0 days		100%
549	CBR-11100				R.C. to tank bottom level (-1.08 mPD)	0 days	NA	NA	20 days	2月24日星期五	3月18日星期六	月24日星期五	NA	548	574FS+14 days,552FF	238 days		15%
550	CBR-NCE-394a		394		Additional Work due to Change in works information on Updated Civil Requirement for Basement Floor	0 days	NA	NA	4 days	2月1日星期三	2月4日星期六	NA	NA			846 days		0%
551	CBR-11150				Backfilling up to -1.08mPD	0 days	NA	NA	7 days	2月23日星期四	3月2日星期四	NA	NA	548FS-1 day	557,553FS-2 days	-285 days		0%
552	CBR-NCE-427		427		Revised Details of 3 nos. of Chambers for CHP Pipeline	0 days	NA	NA	10 days	3月8日星期三	3月18日星期六	NA	NA	549FF		810 days		0%
553	CBR-11160				R.C. wall from -1.08mPD to +1.3mPD	0 days	NA	NA	18 days	3月1日星期三	3月21日星期二	NA	NA	551FS-2 days	554FS-1 day	-285 days		0%
554	CBR-11170				Backfilling up to +1.3mPD and removal of 2nd layer of strut	0 days	NA	NA	10 days	3月21日星期二	3月31日星期五	NA	NA	553FS-1 day	555FS-2 days	-285 days		0%
555	CBR-11180				R.C. Wall up to +5.2mPD	0 days	NA	NA	18 days	3月30日星期四	4月24日星期一	NA	NA	554FS-2 days	556FS-1 day	-285 days		0%
556	CBR-11190				Backfilling up to +5.2mPD and removal of 1st layer of strut	0 days	NA	NA	18 days	4月24日星期一	5月15日星期一	NA	NA	555FS-1 day	557	-285 days		0%
557	CBR-11200				R.C. to intermediate level (+6.40 mPD)	0 days	NA	NA	18 days	5月16日星期二	6月6日星期二	NA	NA	551,556	558,576FS+14 days,1406	-285 days		0%
558	CBR-11300				R.C. to coping level (+10.05mPD)	0 days	NA	NA	18 days	6月7日星期三	6月28日星期三	NA	NA	557	577FS+14 days,564,571FS+14 da	-204 days		0%
559	CBR-NCE-394b		394		Additional Work due to Change in works information on Updated Civil Requirement for Coping Level	0 days	NA	NA	22 days	6月29日星期四	7月25日星期二	NA	NA	558	560	0 days		0%
560	CBR-NCE-414		414		Additional Works on Revised Works Information on additional curb	0 days	NA	NA	6 days	7月26日星期三	8月1日星期二	NA	NA	559	561	0 days		0%
561	CBR-NCE-394c		394		Additional Work due to Change in works information on Updated Civil Requirement for Roof Floor	0 days	NA	NA	59 days	8月2日星期三	10月11日星期三	NA	NA	560	562FS-5 days	0 days		0%
562	CBR-11400				R.C. to roof level (+18.70mPD)	0 days	NA	NA	19 days	10月6日星期五	10月29日星期日	NA	NA	561FS-5 days	46FF,566FF,578FS+14 days,570	0 days		0%
563	~~CBR-12000~~		~~284~~		~~Process pipe CHO chainage 65-170, CHP chainage 60-130, CHO chainage 65-140, CHK chainage 0-35 and CHK chainage 0-60~~	~~0 days~~	~~NA~~	~~NA~~	~~60 days~~	~~4月19日星期三~~	~~6月30日星期四~~	~~NA~~	~~NA~~	~~530FF~~		~~1024 days~~		~~0%~~
564	CBR-13000			277	Additional backfill works after end wall construction at BR2 common channel	30 days	3月24日星期五	5月3日星期三	30 days	6月29日星期四	8月3日星期四	NA	NA	558	46FF	-86 days		0%
565	CBR-13500				Construction of Process Pipe CHO DN1000 air main	0 days	NA	NA	15 days	6月29日星期四	7月17日星期一	NA	NA	558	57FF	-204 days		0%
566	CBR-14000				Construction 2nos. Lightning earthing pits and 1no. earthing pit	35 days	5月3日星期三	6月13日星期二	35 days	9月15日星期五	10月29日星期日	NA	NA	562FF	56FF	172 days		0%
567	CBR-15000				Flowmeter no. 2-4	60 days	12月13日星期二	2月27日星期一	60 days	2月18日星期六	5月4日星期四	NA	NA	547SS+15 days	568FS-15 days,570	-101 days		0%
568	CBR-16000				Gate Valve Chamber no.1-3	60 days	2月13日星期一	4月27日星期四	60 days	4月17日星期一	6月28日星期三	NA	NA	567FS-15 days	569FS-15 days,570	-101 days		0%
569	CBR-17000				Plug Valve Chamber no.1-2	60 days	4月14日星期五	6月26日星期一	60 days	6月10日星期六	8月21日星期一	NA	NA	568FS-15 days	570	-101 days		0%
570	CBR-18000	KD1E			Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	6月26日星期一	6月26日星期一	0 days	10月29日星期日	10月29日星期日	NA	NA	562,567,568,569	46FF	-157 days		0%
571	CBR-20000				Application of waterproof coatings in the tanks	30 days	5月20日星期六	6月26日星期一	40 days	7月17日星期一	8月31日星期四	NA	NA	558FS+14 days	56FF,572FS+14 days	175 days		0%
572	CBR-19000				Water tightness test to the tanks of BR2A & 2B	14 days	5月4日星期四	5月19日星期五	30 days	9月18日星期一	10月25日星期三	NA	NA	571FS+14 days	56FF	175 days		0%
573	**CBR-21000**	**SW1**			**ABWF Works + BS Works**	**171 days**	**6月27日星期二**	**1月19日星期五**	**308 days**	**4月6日星期四**	**4月22日星期一**	**NA**	**NA**	**211,161**	**56FF**	**31 days**		**0%**
574	CBR-21010				Tank Bottom Level ABWF Works	0 days	NA	NA	101 days	4月6日星期四	8月9日星期三	NA	NA	549FS+14 days	56FF	238 days		0%
575	CBR-NCE-483		483		Redesign/ Resubmission of RC and Drainage System in Coping Level	0 days	NA	NA	15 days	6月6日星期二	6月24日星期六	NA	NA	576SF		277 days		0%
576	CBR-21020				Coping Level ABWF Works	0 days	NA	NA	93 days	6月24日星期六	10月13日星期五	NA	NA	557FS+14 days	56FF,575SF	184 days		0%
577	CBR-21030				Roof Level ABWF Works	0 days	NA	NA	68 days	7月17日星期一	10月5日星期四	NA	NA	558FS+14 days	56FF	191 days		0%
578	CBR-21040				External Works	0 days	NA	NA	127 days	11月15日星期三	4月22日星期一	NA	NA	562FS+14 days	56FF	31 days		0%
579	**CMF-0000**	*			**Membrane Facilities Building No.2 , B-5**	**1650 days**	**11月18日星期一**	**6月11日星期三**	**1258 days**	**1月6日星期一**	**4月7日星期日**	**月6日星期一**	**NA**	**2**		**44 days**		**73%**
580	CMF-0500			26	Operation of existing Final Sedimentation Tanks no.3 & 4	98 days	11月18日星期一	3月17日星期二	98 days	1月6日星期一	5月8日星期五	月6日星期一	月8日星期五	52		0 days		100%
581	CMF-0100		370		Allow Access for Decommission of Existing Final Sedimentation Tanks No.3 & 4	0 days	11月18日星期一	11月18日星期一	0 days	3月17日星期二	3月17日星期二	月17日星期二	月17日星期二	32	588	0 days		100%
582	**CMF-1000**				**Demolition of existing final sedimentation tanks no. 3 & 4**	**340 days**	**1月6日星期一**	**2月27日星期六**	**508 days**	**1月10日星期五**	**9月25日星期六**	**月10日星期五**	**月25日星期六**	**9 180,142,10**		**0 days**		**100%**
583	**CMF-NCE-003**		**3**		**NCE-003 : Additional Works to assist Decomissioning of Final Sedimentation Tank No.3 and 4**	**0 days**	**NA**	**NA**	**0 days**	**1月10日星期五**	**1月10日星期五**	**月10日星期五**	**月10日星期五**	**1**		**0 days**		**100%**
584	CMF-NCE-003a				Advised by DSD/ST1 : Construction of Concrete End Wall at RAS Channel No.1 and associated temporary works for isolation of existing RAS Channel NO.1 (Further Rejected)	0 days	NA	NA	0 days	1月10日星期五	1月10日星期五	月10日星期五	月10日星期五	1		0 days		100%
585	CMF-NCE-003b				Advised by DSD/ST and representative of SWHSTW: Relocation of Existing Submersible Pump Sets to RAS Channel No.2 (Further Issued PMI-026)	0 days	NA	NA	0 days	1月10日星期五	1月10日星期五	月10日星期五	月10日星期五	1		0 days		100%
586	CMF-NCE-003c				Advised by DSD/ST and representative of SWHSTW: additional stoplogs (Further Rejected)	0 days	NA	NA	0 days	1月10日星期五	1月10日星期五	月10日星期五	月10日星期五	1		0 days		100%
587	CMF-1205		3	7,26	Assistant to decommissioning of Final Sedimentation Tank No. 3 and 4	27 days	3月4日星期三	4月3日星期五	27 days	3月4日星期三	4月3日星期五	月4日星期三	月3日星期五	4 596	588	0 days		100%
588	CMF-1250				Demolition of structure no. 3 & 4	122 days	4月1日星期三	8月29日星期六	122 days	4月1日星期三	8月29日星期六	月1日星期三	月29日星期六	8 609FF,611FF,616FF,596	625,597SS	0 days		100%
589	~~CMF-PMI-030~~			~~30~~	~~PMI-030 : Demolition of Existing Pillar Box and Concrete Plinth at Existing Leachate Pump Pit~~	~~58 days~~	~~1月6日星期一~~	~~3月16日星期一~~	~~59 days~~	~~8月4日星期六~~	~~10月10日星期六~~	~~月4日星期六~~	~~月10日星期六~~	~~8 10~~		~~0 days~~		~~100%~~
590	~~CMF-PMI-030a~~				~~Issuance of PMI~~	~~0 days~~	~~NA~~	~~NA~~	~~1 day~~	~~8月1日星期六~~	~~8月1日星期六~~	~~月1日星期六~~	~~月1日星期六~~	~~8~~	~~591~~	~~0 days~~		~~100%~~
591	~~CMF-PMI-030b~~				~~Demolition Works~~	~~0 days~~	~~NA~~	~~NA~~	~~58 days~~	~~8月3日星期一~~	~~10月10日星期六~~	~~月3日星期一~~	~~月10日星期六~~	~~10 590~~	~~592~~	~~0 days~~		~~100%~~
592	**CMF-PMI-026**		**3**	**26**	**PMI-026 : New Submersible Pump System Prior to Demolition of FST No.3 & No.4 (Critical Path)**	**0 days**	**NA**	**NA**	**106 days**	**3月4日星期三**	**7月15日星期三**	**月4日星期三**	**月15日星期三**	**7 591**		**0 days**		**100%**
593	CMF-PMI-026a		3		NCE on Additional Works to assist Decomissioning of Final Sedimentation Tank No.3 and 4	0 days	NA	NA	0 days	3月4日星期三	3月4日星期三	月4日星期三	月4日星期三	3		0 days		100%
594	CMF-PMI-026b				Issuance of PMI	0 days	NA	NA	0 days	7月15日星期三	7月15日星期三	月15日星期三	月15日星期三	7	595	0 days		100%
595	CMF-PMI-026c				Provision of New Submersible Pump System and disconnect power cables to the existing Submersible Pump at RAS Channel near FST No.1 and No.2	0 days	NA	NA	1 day	3月4日星期三	3月4日星期三	月4日星期三	月4日星期三	3 594	596	0 days		100%
596	CMF-PMI-026d				Provision of disconnect the existing Submersible Pump and deliver to designated storage location of RAS Channel near FST No.3 and No.4	27 days	3月4日星期三	4月3日星期五	30 days	4月15日星期三	5月21日星期四	月15日星期三	月21日星期四	5 595	587,588FF	0 days		100%
597	**CMF-NCE-013**		**013**		**NCE-013 : Additional works before dismantling of FST No.3 and No.4**	**0 days**	**NA**	**NA**	**24 days**	**4月2日星期四**	**5月6日星期三**	**月2日星期四**	**月6日星期三**	**5 588SS**		**0 days**		**100%**
598	CMF-NCE-013a				Email Record from DSD	0 days	NA	NA	0 days	4月2日星期四	4月2日星期四	月2日星期四	月2日星期四	4		0 days		100%
599	CMF-NCE-013b				NCE from Contractor	0 days	NA	NA	0 days	4月7日星期二	4月7日星期二	月7日星期二	月7日星期二	4		0 days		100%
600	CMF-NCE-013c				Additional dismantling works to retain specified electrical and mechanical equipment	21 days	4月7日星期二	5月6日星期三	21 days	4月7日星期二	5月6日星期三	月7日星期二	月6日星期三	5		0 days		100%
601	**CMF-PMI-044**		**015**	**44**	**NCE-015 / PMI-044 : Additional Works for Plugging Existing 1200mm dia. Conc. S&S Pipe at Washwater Pumping Station Chamber (Critical Path)**	**0 days**	**NA**	**NA**	**100 days**	**6月3日星期三**	**9月30日星期三**	**月3日星期三**	**月30日星期三**	**9**		**0 days**		**100%**
602	CMF-PMI-044a				NCE from Contractor	0 days	NA	NA	0 days	6月3日星期三	6月3日星期三	月3日星期三	月3日星期三	6		0 days		100%
603	CMF-PMI-044b				Issuance of PMI	0 days	NA	NA	0 days	9月30日星期三	9月30日星期三	月30日星期三	月30日星期三	9		0 days		100%
604	CMF-PMI-044c				Additional plugging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber	70 days	6月8日星期一	8月29日星期六	30 days	6月11日星期四	7月17日星期五	月11日星期四	月17日星期五	6 7		0 days		100%
605	~~CMF-1500~~			~~032~~	~~Diversion of wash water main~~	~~21 days~~	~~6月16日星期一~~	~~7月10日星期五~~	~~21 days~~	~~6月16日星期一~~	~~7月10日星期五~~	~~月16日星期一~~	~~月10日星期五~~	~~6 7~~		~~0 days~~		~~100%~~
606	**CMF-PMI-035**			**035**	**PMI-035 : Isolation Wall at RAS Channel No.1 for FST No.3 & No.4 (Critical Path)**	**40 days**	**6月1日星期一**	**7月18日星期六**	**166 days**	**3月5日星期四**	**9月24日星期四**	**月5日星期四**	**月24日星期四**	**3 9**		**0 days**		**100%**
607	CMF-PMI-035a				Issuance of PMI	0 days	NA	NA	0 days	9月24日星期四	9月24日星期四	月24日星期四	月24日星期四	9 9		0 days		100%
608	CMF-PMI-035b				Isolation wall for RAS Channel No.1	40 days	6月1日星期一	7月18日星期六	109 days	3月5日星期四	7月18日星期六	月5日星期四	月18日星期六	3 7	619	0 days		100%
609	**CMF-PMI-043**			**043**	**PMI-043 : Removal of Existing DN1400 Bioreactor No.2 Effluent Pipe**	**0 days**	**NA**	**NA**	**164 days**	**8月11日星期二**	**2月27日星期六**	**月11日星期二**	**月27日星期六**	**8 2**	**588FF**	**0 days**		**100%**
610	CMF-PMI-043a				Issuance of PMI	0 days	NA	NA	0 days	8月11日星期二	8月11日星期二	月11日星期二	月11日星期二	8 8		0 days		100%



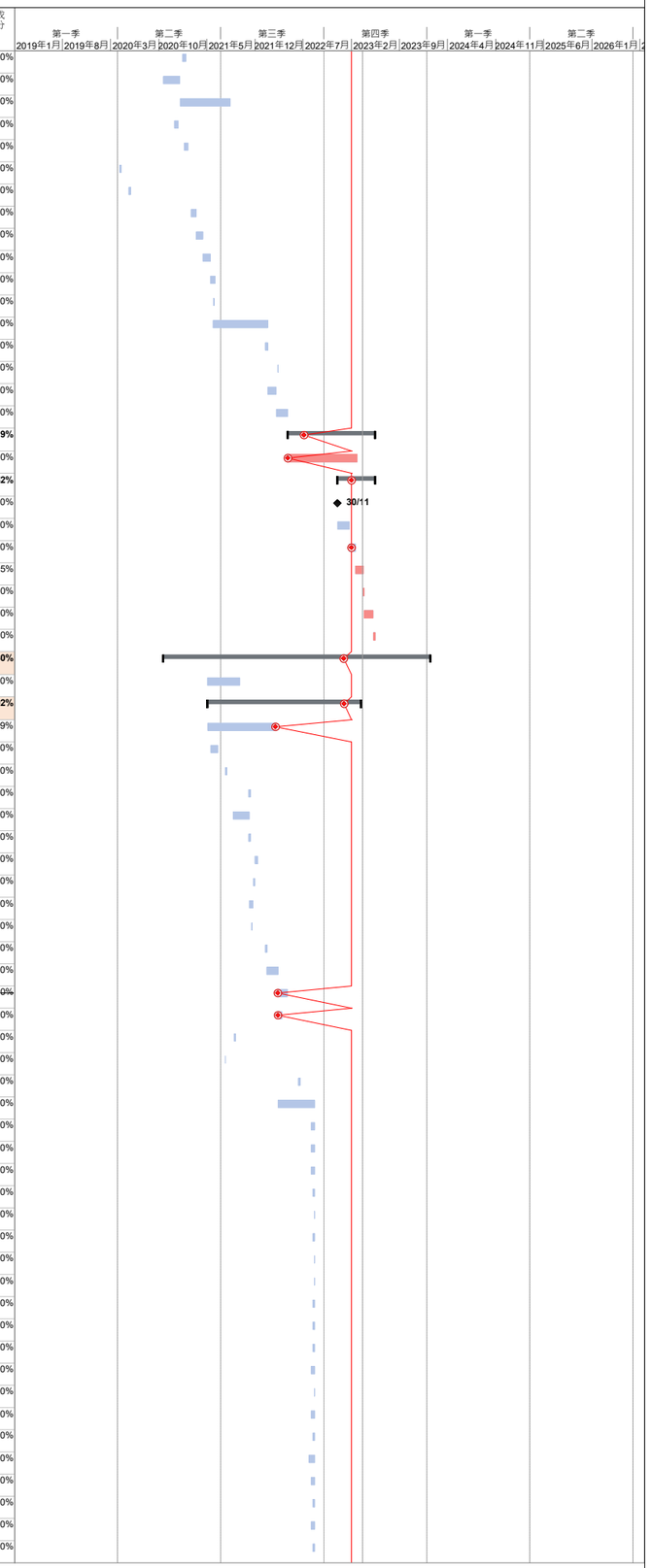
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk	完成百分比
611	CMF-PMI-043b				Removal of DN1400 Bioreactor No. 2 Effluent Pipe	8 days	2月19日星期五	2月27日星期六	8 days	2月19日星期五	2月27日星期六	月19日星期五2	月27日星期六2		588FF	0 days		100%
612	**CMF-PMI-038**		**007**	**038**	**NCE-007 / PMI-038 : Identifying, Exposing and Disconnecting Existing Cables between FST No.3 and No.4 (Critical Path)**	**0 days**	**NA**	**NA**	**201 days**	**2月28日星期五**	**11月2日星期一**	**月28日星期五2**	**月2日星期一11**			**0 days**		**100%**
613	CMF-PMI-038a				RFI on potential conflict between construction drawing and site	0 days	NA	NA	0 days	2月28日星期五	2月28日星期五	月28日星期五2	月28日星期五2			0 days		100%
614	CMF-PMI-038b				NCE from Contractor	0 days	NA	NA	0 days	3月17日星期二	3月17日星期二	月17日星期二3	月17日星期二3			0 days		100%
615	CMF-PMI-038c				Issuance of PMI	0 days	NA	NA	0 days	11月2日星期一	11月2日星期一	月2日星期一11	月2日星期一11			0 days		100%
616	CMF-PMI-038d				Exposed and disconnect uncharted existing cable between FST3 and FST 4	20 days	7月2日星期四	7月24日星期五	66 days	5月7日星期四	7月24日星期五	月7日星期四5	月24日星期五7		588FF	0 days		100%
617	**CMF-PMI-060**			**060**	**PMI-060 : Removal of Existing DN150 SAS Rising Main at RAS Channel No.1**	**0 days**	**NA**	**NA**	**283 days**	**10月14日星期三**	**9月25日星期六**	**月14日星期三10**	**月25日星期六9**			**0 days**		**100%**
618	CMF-PMI-060a				Issuance of PMI	0 days	NA	NA	0 days	10月14日星期三	10月14日星期三	月14日星期三10	月14日星期三10			0 days		100%
619	CMF-PMI-060b				Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1	22 days	8月31日星期二	9月25日星期六	22 days	8月31日星期二	9月25日星期六	月31日星期二8	月25日星期六9	608	626	0 days		100%
620	**CMF-PMI-427**		**67**	**427**	**NCE-067 / PMI-427 : Plugging of Existing DN80 Pipe near Footpath of MFB No.1**	**0 days**	**NA**	**NA**	**271 days**	**8月4日星期二**	**7月5日星期一**	**月4日星期二8**	**月5日星期一7**			**0 days**		**100%**
621	CMF-PMI-427a				Joint Site Inspection with Supervisor	0 days	NA	NA	1 day	8月4日星期二	8月4日星期二	月4日星期二8	月4日星期二8			0 days		100%
622	CMF-PMI-427b				NCE from Contractor	0 days	NA	NA	0 days	8月8日星期六	8月8日星期六	月8日星期六8	月8日星期六8		624	0 days		100%
623	CMF-PMI-427c				Issuance of PMI	0 days	NA	NA	0 days	7月5日星期一	7月5日星期一	月5日星期一7	月5日星期一7			0 days		100%
624	CMF-PMI-427d				Plugging Works	0 days	NA	NA	2 days	8月10日星期一	8月11日星期二	月10日星期一8	月11日星期二8	622,625SS		0 days		100%
625	CMF-2000			120	Predrilling (83nrs, 4rigs, 2.5days/drillhole/rig)	31 days	8月10日星期一	9月14日星期一	31 days	8月10日星期一	9月14日星期一	月10日星期一8	月14日星期一9	147,588	624SS	0 days	1	100%
626	CMF-3000			120	Pre-bored H piles (171nos, 2rigs, 1.5days/pile/rig) [Extended working hours 0700-1900 & shorten pile length]	96 days	9月28日星期二	1月22日星期六	90 days	10月7日星期三	1月23日星期六	月7日星期三10	月23日星期六1	155,619	631	0 days	5	100%
627	**CMF-NCE-102**		**102**	**207**	**NCE-102 / PMI-207 : Change of Layout of Basement of MFB No.2**	**0 days**	**NA**	**NA**	**71 days**	**10月31日星期六**	**1月25日星期一**	**月31日星期六10**	**月25日星期一1**			**0 days**		**100%**
628	CMF-NCE-102a				Instructed by the Supervisor in late of October 2020	0 days	NA	NA	0 days	10月31日星期六	10月31日星期六	月31日星期六10	月31日星期六10			0 days		100%
629	CMF-NCE-102b				NCE from Contractor	0 days	NA	NA	0 days	11月10日星期二	11月10日星期二	月10日星期二11	月10日星期二11			0 days		100%
630	CMF-NCE-102c				Socket H-pile works suiting the change of layout	17 days	11月3日星期二	11月21日星期六	17 days	11月3日星期二	11月21日星期六	月3日星期二11	月21日星期六11			0 days		100%
631	CMF-4000				Pile Load Test	19 days	1月4日星期一	1月25日星期一	19 days	1月4日星期一	1月25日星期一	月4日星期一1	月25日星期一1	626	649,647	0 days		100%
632	**CMF-CE120**		**112,350**	**(120)**	**NCE-112/ NCE-350 / CE-120 : Additional Works to deal with High Rockhead Profile for Construction of Membrane Facilities Building No.2**	**0 days**	**NA**	**NA**	**495 days**	**10月24日星期六**	**6月28日星期二**	**月24日星期六10**	**月28日星期二6**		**640FF**	**0 days**		**100%**
633	CMF-NCE-112				NCE-112 from Contractor	0 days	NA	NA	0 days	10月24日星期六	10月24日星期六	月24日星期六10	月24日星期六10			0 days		100%
634	CMF-NCE-350				NCE-350 from Contractor	0 days	NA	NA	0 days	6月28日星期二	6月28日星期二	月28日星期二6	月28日星期二6			0 days		100%
635	CMF-CE120a				Issuance of CE	0 days	NA	NA	0 days	11月9日星期一	11月9日星期一	月9日星期一11	月9日星期一11			0 days		100%
636	CMF-CE120b				Additional Rock Drilling on pre-boring of sheetpile	0 days	NA	NA	17 days	12月23日星期三	1月14日星期四	月23日星期三12	月14日星期四1	647		0 days		100%
637	CMF-6122a				Rock Excavation for High Rockhead Profile (Additional Rock Breaking and Grouting for ELS) [2600cu. m/group x2]	115 days	10月9日星期六	2月28日星期一	185 days	11月10日星期三	6月28日星期二	月10日星期三11	月28日星期二6	649	666,657FF+7 days,638	0 days		100%
638	CMF-6122b				Additional Time for High Rockhead Profile with Soil Omission	0 days	NA	NA	172 days	11月10日星期三	6月13日星期一	月10日星期三11	月13日星期一6	637		0 days		100%
639	CMF-PMI565			565	Clearance of Sludge in Works Area near RAS Pump Station	0 days	NA	NA	5 days	12月24日星期五	12月31日星期五	月24日星期五12	月31日星期五12			0 days		100%
640	CMF-PMI-788			788	Removal of Sludge near MFB2 due to Overflow Incident from the Existing MFB1 Facilities	0 days	NA	NA	7 days	1月5日星期三	1月12日星期三	月5日星期三1	月12日星期三1	632FF		0 days		100%
641	**CMF-CNE-293**		**293, (124**	**(293)**	**EWN-124/ NCE-293 / CNE-293 : Shortage of Human Resources due to 5th wave of COVID-19 Outbreak**	**0 days**	**NA**	**NA**	**93 days**	**2月7日星期一**	**6月2日星期四**	**月7日星期一2**	**月2日星期四6**			**0 days**		**100%**
642	CMF-CNE-293a				EWN from Contractor	0 days	NA	NA	0 days	2月16日星期三	2月16日星期三	月16日星期三2	月16日星期三2			0 days		100%
643	CMF-CNE-293b				NCE from Contractor	0 days	NA	NA	0 days	3月3日星期四	3月3日星期四	月3日星期四3	月3日星期四3			0 days		100%
644	CMF-CNE-293c				Issuance of CNE	0 days	NA	NA	0 days	6月2日星期四	6月2日星期四	月2日星期四6	月2日星期四6			0 days		100%
645	CMF-CNE-293d				Affected Period	0 days	NA	NA	45 days	2月7日星期一	3月30日星期三	月7日星期一2	月30日星期三3			0 days		100%
646	**CMF-6000**				**ELS works**	**203 days**	**6月25日星期五**	**2月28日星期一**	**683 days**	**12月28日星期一**	**4月20日星期四**	**月28日星期一12**	**NA**	**10**		**-378 days**	**5**	**89%**
647	CMF-6050		112	120	Installation of sheetpile [with pre-boring]	144 days	12月28日星期一	6月24日星期四	144 days	12月28日星期一	6月24日星期四	月28日星期一12	月24日星期四6	631	649,636	0 days		100%
648	**CMF-6100**			**45**	**Phase A (A1 to N6) - Excavation to -9mPD and blinding**	**203 days**	**6月25日星期五**	**2月28日星期一**	**113 days**	**6月25日星期五**	**11月8日星期一**	**月25日星期五6**	**月8日星期一11**			**0 days**		**100%**
649	CMF-6110			(120), 207	Soil Excavation [Extended working hours 0700-1900 & reduction of excavation volume]	88 days	6月25日星期五	10月8日星期五	88 days	6月25日星期五	10月8日星期五	月25日星期五6	月8日星期五10	647,155,631	637	0 days		100%
650	CFS-PMI-580b		258	580	Additional Cleaning and Pumping Works at Excavated Trench of MFB No.2 and EVA outside MFB No.1	0 days	NA	NA	7 days	11月1日星期一	11月8日星期一	月1日星期一11	月8日星期一11			0 days		100%
651	**CMF-6200**				**Phase B (A6 to N10) - Excavation to -1.9mPD and blinding**	**100 days**	**6月25日星期五**	**10月23日星期六**	**30 days**	**3月13日星期一**	**4月20日星期四**	**NA**	**NA**			**-378 days**		**0%**
652	CMF-6210				ELS for A6-A8	0 days	NA	NA	20 days	3月13日星期一	4月4日星期二	NA	NA	676	653	-378 days		0%
653	CMF-6220				Installation of Capping Plate	0 days	NA	NA	10 days	4月6日星期四	4月20日星期四	NA	NA	652	701	-378 days		0%
654	CMF-6300				Receiving of Civil Requirements from PM	1 day	11月30日星期二	11月30日星期二	1 day	1月5日星期三	1月5日星期三	月5日星期三1	月5日星期三1	655SS-3 emons		0 days		100%
655	**CMF-6400**				**RC Structure works**	**262 days**	**3月1日星期二**	**1月16日星期一**	**642 days**	**2月4日星期五**	**4月7日星期日**	**月4日星期五2**	**NA**	**10**	**654SS-3 emons**	**44 days**	**5**	**43%**
656	**CMF-6500**				**Phase A RC Structure Works (Left Hand Side)**	**0 days**	**NA**	**NA**	**57 days**	**6月13日星期一**	**8月18日星期四**	**月13日星期一6**	**月18日星期四8**			**0 days**		**100%**
657	CMF-6510				Vertical Blinding	0 days	NA	NA	20 days	6月13日星期一	7月6日星期三	月13日星期一6	月6日星期三7	637FF+7 days	658,659SS+7 days	0 days		100%
658	CMF-6520				Application of waterproofing membrane after blinding layer	0 days	NA	NA	25 days	6月23日星期四	7月22日星期五	月23日星期四6	月22日星期五7	657		0 days		100%
659	CMF-6530				R.C. works for Pile Cap at -7.4mPD	0 days	NA	NA	45 days	6月21日星期二	8月12日星期五	月21日星期二6	月12日星期五8	657SS+7 days	660SS+20 days	0 days		100%
660	CMF-6540				Modification of ELS	0 days	NA	NA	30 days	7月15日星期五	8月18日星期四	月15日星期五7	月18日星期四8	659SS+20 days	666	0 days		100%
661	**CMF-PMI-568**			**568,602**	**PMI-568 : Supply and Installation of Puddle for MFB No.2**	**0 days**	**NA**	**NA**	**185 days**	**2月4日星期五**	**9月17日星期六**	**月4日星期五2**	**月17日星期六9**			**0 days**		**100%**
662	CMF-PMI-568a				Issuance of PMI	0 days	NA	NA	0 days	2月4日星期五	2月4日星期五	月4日星期五2	月4日星期五2		663	0 days		100%
663	CMF-PMI-568b				Procurement of Puddle	0 days	NA	NA	170 days	2月4日星期五	8月30日星期二	月4日星期五2	月30日星期二8	662	664	0 days		100%
664	CMF-PMI-568c				Installation of Puddle	0 days	NA	NA	15 days	8月31日星期三	9月17日星期六	月31日星期三8	月17日星期六9	663,665SS		0 days		100%
665	**CMF-6600**				**Phase A - from B2 - Level 1 (including ELS demolition works)**	**90 days**	**3月1日星期二**	**6月21日星期二**	**482 days**	**8月19日星期五**	**4月7日星期日**	**月19日星期五8**	**NA**		**664SS**	**44 days**		**27%**
666	**CMF-6610**				**GL 1-6 (B2 to B1)**	**0 days**	**NA**	**NA**	**131 days**	**8月19日星期五**	**1月28日星期六**	**月19日星期五8**	**NA**	159,208,209,212,210,660		**0 days**		**96%**
667	CMF-6611				R.C. works for wall, column and corbel at-3.22mPD	0 days	NA	NA	49 days	8月19日星期五	10月18日星期二	月19日星期五8	月18日星期二10		669,668FF	0 days		100%
668	CMF-NCE-387		387	755	Cast-in Bolt Issue for Wall Corbel at B2 of MFB No.2	0 days	NA	NA	2 days	10月17日星期一	10月18日星期二	月17日星期一10	月18日星期二10	667FF		0 days		100%
669	CMF-6612				Dismatle of scaffolding	0 days	NA	NA	6 days	10月19日星期三	10月25日星期二	月19日星期三10	月25日星期二10	667	670	0 days		100%
670	CMF-6613				Backfilling and removal of 3rd layer of strut	0 days	NA	NA	35 days	10月26日星期三	12月5日星期一	月26日星期三10	月5日星期一12	669	671	0 days		100%
671	CMF-6614				R.C. works for wall,column and slab at -0.05mPD	0 days	NA	NA	24 days	12月6日星期二	1月5日星期四	月6日星期二12	NA	670	677,672	-291 days		80%
672	CMF-NCE-443		443		Additional Works due to Separation of Pressurised Waste Water Pipe for Sump Pits	0 days	NA	NA	14 days	1月6日星期五	1月21日星期六	月6日星期五1	月21日星期六1	671	56FF,673	0 days		100%
673	CMF-6616				Backfilling to -0.05mPD with concrete	0 days	NA	NA	3 days	1月26日星期四	1月28日星期六	月26日星期四1	月28日星期六1	672	675	0 days		100%
674	**CMF-6620**				**GL 1-5 (B1 to G/F)**	**0 days**	**NA**	**NA**	**103 days**	**1月30日星期一**	**6月5日星期一**	**月30日星期一1**	**NA**			**-67 days**		**26%**
675	CMF-6621				R.C. Works for wall 01 and wall 03 (facing SSSH)	0 days	NA	NA	18 days	1月30日星期一	2月18日星期六	月30日星期一1	月18日星期六2	673	676	0 days		100%
676	CMF-6622				Backfilling and removal of 1st and 2nd layer of strut	0 days	NA	NA	18 days	2月20日星期一	3月11日星期六	月20日星期一2	NA	675	652,716,677	-378 days		50%
677	CMF-6623				R.C. Works for wall, column, water tank to first beam soffit level (+5.2mPD)	0 days	NA	NA	18 days	3月13日星期一	4月1日星期六	NA	NA	671,676	678	-344 days		0%
678	CMF-6624				R.C. Works for wall, column, water tank to first beam soffit level (+6.6mPD)	0 days	NA	NA	18 days	4月3日星期一	4月27日星期四	NA	NA	677	679	-344 days		0%



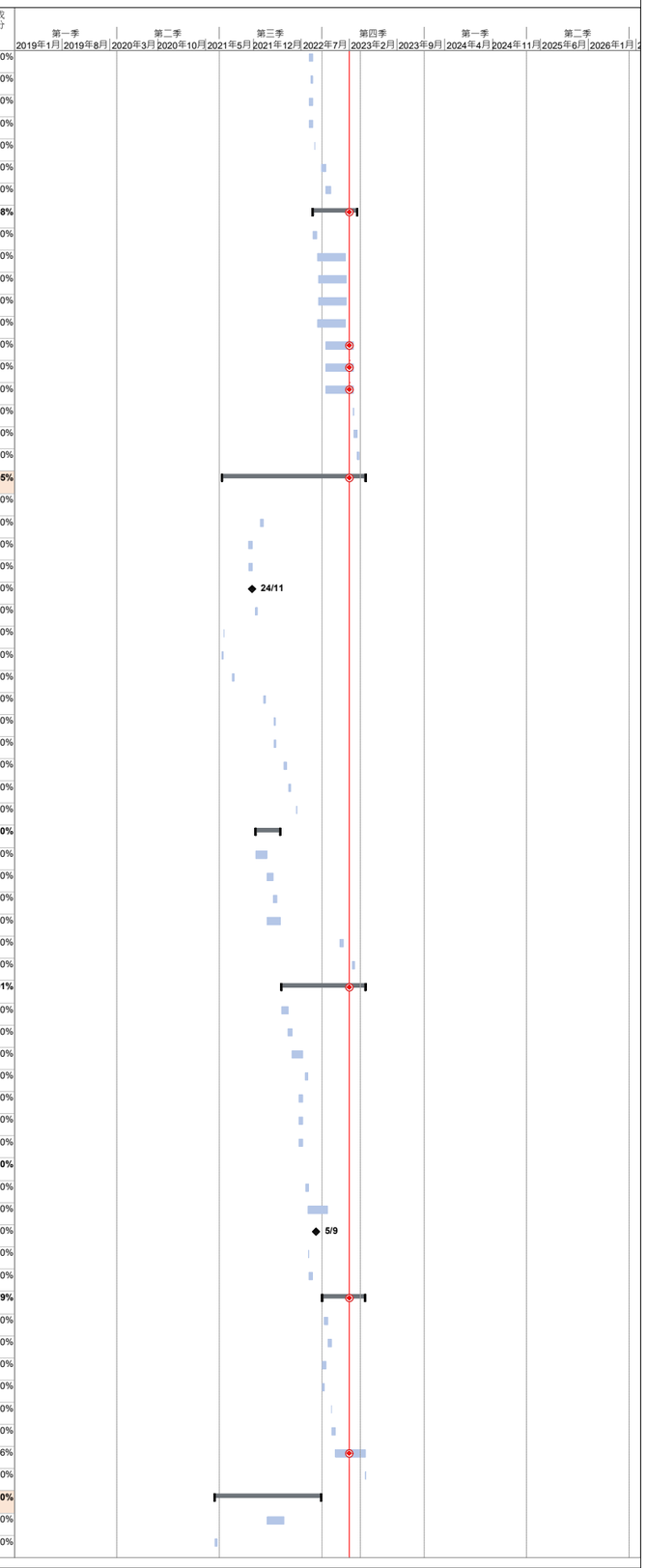
識別碼	Activity ID	Key Date	NCE/(EW)	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
679	CMF-6625				R.C. Works for wall, column, water tank, beam and slab to +7.45mPD and +7.8mPD	0 days	NA	NA	15 days	4月28日星期五	5月16日星期二	NA	NA	678	725,683,680	-344 days		0%
680	CMF-6627				Backfilling to Ground Level with sand	0 days	NA	NA	8 days	5月17日星期三	5月25日星期四	NA	NA	679	681	-278 days		0%
681	CMF-6628				Extraction of Sheet Pile	0 days	NA	NA	8 days	5月27日星期六	6月5日星期一	NA	NA	680	47FF	-278 days		0%
682	**CMF-6630**				**GL 1-5 (G/F- 1/F)**	**0 days**	**NA**	**NA**	**83 days**	**5月17日星期三**	**8月24日星期四**	**NA**	**NA**			**-345 days**		**0%**
683	CMF-6631				R.C. works for wall, column to slab soffit level	0 days	NA	NA	15 days	5月17日星期三	6月3日星期六	NA	NA	679	684	-344 days		0%
684	CMF-6632				R.C. works for wall, column, beam and double slab to 14.15mPD	0 days	NA	NA	15 days	6月5日星期一	6月21日星期三	NA	NA	683	722,686,692,685	-344 days		0%
685	CMF-CR1F		393	647	Additional Works for Civil Requirement (For KD1F)	0 days	NA	NA	64 days	6月22日星期四	8月24日星期四	NA	NA	684	689,722	-423 days		0%
686	CMF-6633				Water tightness test to the tanks (from B1, B2 - Level 1)	14 days	7月28日星期四	8月12日星期五	14 days	6月23日星期五	7月10日星期一	NA	NA	684	687	234 days		0%
687	CMF-6634				Application of waterproof coatings in the tanks (from B1, B2 - Level 1)	30 days	8月13日星期六	9月17日星期六	30 days	7月11日星期二	8月14日星期一	NA	NA	686	56FF	234 days		0%
688	**CMF-6700**				**Phase A - from Level 1 to Roof**	**98 days**	**6月22日星期三**	**10月18日星期二**	**181 days**	**8月25日星期五**	**4月7日星期日**	**NA**	**NA**			**-328 days**		**0%**
689	**CMF-6710**				**GL 1-5 (1/F- R/F)**	**0 days**	**NA**	**NA**	**181 days**	**8月25日星期五**	**4月7日星期日**	**NA**	**NA**	685		**-328 days**		**0%**
690	CMF-6711				R.C. works for wall and column to slab soffit level (GL 1-3)	0 days	NA	NA	35 days	8月25日星期五	10月6日星期五	NA	NA		691	-328 days		0%
691	CMF-6712				R.C. works for wall, column, beam and slab to 21.6mPD	0 days	NA	NA	35 days	10月7日星期六	11月17日星期五	NA	NA	690	694	-328 days		0%
692	CMF-6713				R.C. works for wall and column to slab soffit level (GL 3-5)	0 days	NA	NA	35 days	8月25日星期五	10月6日星期五	NA	NA	684	693	-328 days		0%
693	CMF-6714				R.C. works for wall, cloumn, beam and slab to 25.7mPD	0 days	NA	NA	35 days	10月7日星期六	11月17日星期五	NA	NA	692	694	-328 days		0%
694	CMF-6715				Remaining R.C. works +29.17mPD	0 days	NA	NA	37 days	11月18日星期六	1月3日星期三	NA	NA	693,691	723,696,695	-328 days		0%
695	CMF-CR1G		393	647	Additional Works for Civil Requirement (For KD1G)	0 days	NA	NA	24 days	3月15日星期五	4月7日星期日	NA	NA	694	723	0 days		0%
696	CMF-6800				Water tightness test to the buildings (from Level 1 to Roof)	14 days	11月23日星期三	12月8日星期四	14 days	1月4日星期四	1月19日星期五	NA	NA	694	697	74 days		0%
697	CMF-6900				Application of waterproof coatings in the buildings (from Level 1 to Roof)	30 days	12月9日星期五	1月16日星期一	30 days	1月20日星期六	2月27日星期二	NA	NA	696	56FF	74 days		0%
698	**CMF-7000**				**Phase B RC Structure Works (Right Hand Side)**	**0 days**	**NA**	**NA**	**385 days**	**7月13日星期三**	**10月27日星期五**	**月13日星期三7**	**NA**			**-273 days**		**21%**
699	**CMF-7100**				**Phase B - from B1 - Level 1 (including ELS demolition works)**	**90 days**	4月6日星期三	7月27日星期三	**137 days**	**4月21日星期五**	**10月4日星期三**	**NA**	**NA**			**-378 days**		**0%**
700	**CMF-7110**				**GL 5-8 (Pile Cap, B1/F to G/F)**	**0 days**	**NA**	**NA**	**107 days**	**4月21日星期五**	**8月28日星期一**	**NA**	**NA**			**-378 days**		**0%**
701	CMF-7111				Apply waterproofing membrane	0 days	NA	NA	8 days	4月21日星期五	4月29日星期六	NA	NA	653	702	-378 days		0%
702	CMF-7112				R.C. works for pile cap (GL6-8) -0.05mPD (connection of coupling at GL6)	0 days	NA	NA	30 days	5月2日星期二	6月6日星期二	NA	NA	701	703	-378 days		0%
703	CMF-7113				R.C. works of wall to ground floor +7.45mPD	0 days	NA	NA	30 days	6月7日星期三	7月13日星期四	NA	NA	702	704	-378 days		0%
704	CMF-7114				R.C. works for Ground Floor Slab	0 days	NA	NA	25 days	7月14日星期五	8月11日星期五	NA	NA	703	705	-378 days		0%
705	CMF-7115				Backfilling and removal of strut for 1st layer	0 days	NA	NA	14 days	8月12日星期六	8月28日星期一	NA	NA	704	707	-378 days		0%
706	**CMF-7120**				**GL 5-8 (G/F to 1/F)**	**0 days**	**NA**	**NA**	**30 days**	**8月29日星期二**	**10月4日星期三**	**NA**	**NA**			**-378 days**		**0%**
707	CMF-7121				R.C. works for wall, column, beam and double slab to 14.15mPD	0 days	NA	NA	30 days	8月29日星期二	10月4日星期三	NA	NA	705	709,722,727	-378 days		0%
708	**CMF-7200**				**Phase B - from Level 1 to Roof**	**98 days**	7月28日星期四	11月22日星期二	**19 days**	**10月5日星期四**	**10月27日星期五**	**NA**	**NA**			**-273 days**		**0%**
709	CMF-7210				R.C. works for wall, column, beam and slab to 25.7mPD	0 days	NA	NA	19 days	10月5日星期四	10月27日星期五	NA	NA	707	723,728,730FS+60 days	-273 days		0%
710	**CMF-7300**				**GL 8-10**	**0 days**	**NA**	**NA**	**269 days**	**7月13日星期三**	**6月8日星期四**	**月13日星期三7**	**NA**			**-208 days**		**47%**
711	**CMF-7310**				**ELS and Erection of tower crane**	**0 days**	**NA**	**NA**	**219 days**	**7月13日星期三**	**4月4日星期二**	**月13日星期三7**	**NA**			**-158 days**		**75%**
712	CMF-7311				ELS works for tower crane	0 days	NA	NA	40 days	7月13日星期三	8月27日星期六	月13日星期三7	月27日星期六8		713	0 days		100%
713	CMF-7312				Welding and installation of capping plate	0 days	NA	NA	4 days	8月29日星期一	9月1日星期四	月29日星期一8	月1日星期四9	712	714	0 days		100%
714	CMF-7313				R.C. works of 10m x 10m x 0.8m cap	0 days	NA	NA	10 days	9月2日星期五	9月14日星期三	月2日星期五9	月14日星期三9	713	715	0 days		100%
715	CMF-7314				Installation of tower crane	0 days	NA	NA	7 days	9月15日星期四	9月22日星期四	月15日星期四9	月22日星期四9	714		0 days		100%
716	CMF-7315				ELS for remaining area	0 days	NA	NA	15 days	3月13日星期一	3月29日星期三	NA	NA	676	717	-281 days		0%
717	CMF-7316				Intsallation of capping plate	0 days	NA	NA	5 days	3月30日星期四	4月4日星期二	NA	NA	716	718	-281 days		0%
718	**CMF-7320**				**GL 8-10 (Pile Cap to Ground level)**	**0 days**	**NA**	**NA**	**50 days**	**4月6日星期四**	**6月8日星期四**	**NA**	**NA**	**717**		**-281 days**		**0%**
719	CMF-7321				Apply waterproofing membrane	0 days	NA	NA	5 days	4月6日星期四	4月14日星期五	NA	NA		720	-281 days		0%
720	CMF-7322				R.C. works for pile cap (GL8-10) +2.2 mPD	0 days	NA	NA	25 days	4月15日星期六	5月15日星期一	NA	NA	719	721	-281 days		0%
721	CMF-7323				R.C. works of Wall to +7.45mPD	0 days	NA	NA	20 days	5月16日星期二	6月8日星期四	NA	NA	720	722	-281 days		0%
722	CMF-8000	KD1F			Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from B1 to Level 1)	0 days	9月17日星期六	9月17日星期六	0 days	10月4日星期三	10月4日星期三	NA	NA	684,707,721,685	47FF	-378 days		0%
723	CMF-8100	KD1G			Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from Level 1 to Roof)	0 days	1月16日星期一	1月16日星期一	0 days	4月7日星期日	4月7日星期日	NA	NA	709,694,695	48FF	-402 days		0%
724	**CMF-9000**	**SW1**		**751**	**ABWF works + BS works**	**210 days**	**1月17日星期二**	**10月3日星期二**	**473 days**	**5月17日星期三**	**12月15日星期日**	**NA**	**NA**	**211**	**56FF**	**0 days**		**0%**
725	CMF-9100				B2/F ABWF +BS Works	0 days	NA	NA	65 days	5月17日星期三	8月3日星期四	NA	NA	679	56FF,726	236 days		0%
726	CMF-NCE-486		486		Revised Works Information on Floor Screeding on B2/F	0 days	NA	NA	7 days	8月4日星期五	8月11日星期五	NA	NA	725	56FF	236 days		0%
727	CMF-9200				B1/F ABWF +BS Works	0 days	NA	NA	65 days	10月5日星期四	12月20日星期三	NA	NA	707	56FF	127 days		0%
728	CMF-9300				G/F ABWF +BS Works	0 days	NA	NA	90 days	10月28日星期六	2月16日星期五	NA	NA	709	56FF,729	69 days		0%
729	CMF-NCE-431		431		Revised Works Information on Metal Gate for Tx Room at G/F	0 days	NA	NA	14 days	2月17日星期六	3月4日星期一	NA	NA	728	56FF	69 days		0%
730	CMF-9400				1/F ABWF +BS Works	0 days	NA	NA	90 days	1月10日星期三	5月2日星期四	NA	NA	709FS+60 days	56FF,731SS+15 days	-135 days		0%
731	CMF-9500				R/F ABWF +BS Works	0 days	NA	NA	113 days	1月27日星期六	6月18日星期二	NA	NA	730SS+15 days	56FF,735SS,732	-135 days		0%
732	CMF-9600				External Works	0 days	NA	NA	120 days	6月19日星期三	11月9日星期六	NA	NA	731	56FF,733	-135 days		0%
733	CMF-NCE-367		367		Revised Works Information of Windows and Louvers	0 days	NA	NA	30 days	11月11日星期一	12月15日星期日	NA	NA	732	734,56FF	0 days		0%
734	~~CMF-NCE401~~		~~401~~		~~Extra work due to revised tile pattern of external wall tiles~~	~~0 days~~	~~NA~~	~~NA~~	~~27 days~~	~~12月18日星期一~~	~~1月17日星期五~~	~~NA~~	~~NA~~	~~733~~	~~56FF~~	~~-192 days~~		~~0%~~
735	CMF-9700				Staircase Works	0 days	NA	NA	58 days	1月27日星期六	4月11日星期四	NA	NA	731SS	56FF	40 days		0%
736	**CSA-0000**	*			**SAS Pumping Station, B-6**	**733 days**	**4月9日星期四**	**9月28日星期三**	**733 days**	**4月9日星期四**	**9月28日星期三**	**月9日星期四4**	**NA**	**11**		**144 days**		**82%**
737	**CSA-1000**				**Additional Preliminary Works**	**396 days**	**4月9日星期四**	**8月10日星期二**	**397 days**	**4月9日星期四**	**8月11日星期三**	**月9日星期四4**	**月11日星期三8**			**0 days**		**100%**
738	CSA-1020			78	Expose and abandon existing electric cable & trial pits	50 days	8月4日星期二	9月30日星期三	50 days	8月4日星期二	9月30日星期三	月4日星期二8	月30日星期三9			0 days		100%
739	CSA-1030			71	Installation of standpipes	13 days	9月14日星期一	9月28日星期一	13 days	9月14日星期一	9月28日星期一	月14日星期一9	月28日星期一9			0 days		100%
740	CSA-1100			69	Diversion of Existing SAS Rising Main near SAS Pumping Station	170 days	6月9日星期二	12月31日星期四	170 days	6月9日星期二	12月31日星期四	月9日星期二6	月31日星期四12		754	0 days		100%
741	CSA-1200			74	Decommission of existing power and signal systems in leachate Pump station switch room	58 days	9月21日星期一	11月30日星期一	58 days	9月21日星期一	11月30日星期一	月21日星期一9	月30日星期一11	166	754	0 days		100%
742	CSA-1300			61	Construction of Cable trough for CLP 11kv Cable Diversion	210 days	4月9日星期四	12月21日星期一	210 days	4月9日星期四	12月21日星期一	月9日星期四4	月21日星期一12		754	0 days		100%
743	CSA-1400			30	Demolition of Existing Pillar box and its concrete plinth	53 days	8月12日星期三	11月14日星期六	53 days	8月12日星期三	11月14日星期六	月12日星期三8	月14日星期六11	169	754	0 days		100%
744	CSA-1500			78	Excavation to locate existing underground cable near SAS Pump Station	59 days	6月17日星期三	11月21日星期六	59 days	6月17日星期三	11月21日星期六	月17日星期三6	月21日星期六11		754	0 days		100%
745	CSA-1800			97	Trench Excavation near SAS for CLP diversion of 11kV cable	53 days	10月12日星期一	12月12日星期六	53 days	10月12日星期一	12月12日星期六	月12日星期一10	月12日星期六12		754	0 days		100%
746	CSA-1700			70	Relocation of Oil Interceptor Near Existing Compressor House	50 days	11月9日星期一	1月8日星期五	50 days	11月9日星期一	1月8日星期五	月9日星期一11	月8日星期五1		754	0 days		100%



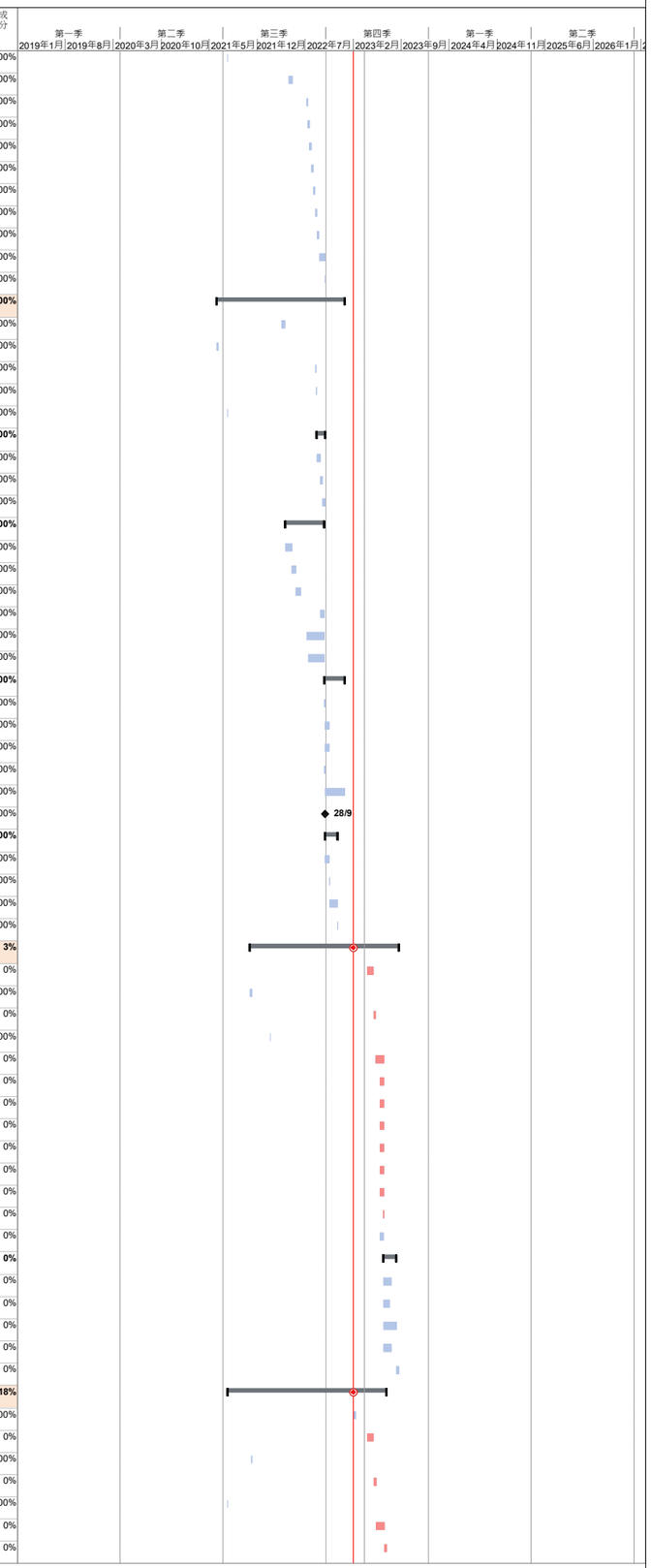
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
747	CSA-1900			83	Diversion of pumping system sewerage	36 days	1月13日星期三	2月26日星期五	13 days	1月13日星期三	1月27日星期三	1月13日星期三	1月27日星期三	171	756,754,748	0 days		100%
748	CSA-1910		107	225	Diversion of Existing copper pipe near proposed SAS pumping station	61 days	10月19日星期一	12月31日星期四	61 days	10月19日星期一	12月31日星期四	月19日星期一	10月31日星期四	12747	754,749	0 days		100%
749	CSA-1920			221	Pipework of proposed SAS Pumping Station - 18 nos. of puddles	180 days	12月31日星期四	8月10日星期二	180 days	1月2日星期六	8月11日星期三	月2日星期六	月11日星期三	8748		0 days		100%
750	CSA-1930			220/69	Additional DN150 Rising main for SAS	15 days	12月8日星期二	12月24日星期四	15 days	12月8日星期二	12月24日星期四	月8日星期二	月24日星期四	12		0 days		100%
751	CSA-1970			81	Additional diversion of existing sludge rising main and sewerage system	15 days	1月21日星期四	2月6日星期六	15 days	1月21日星期四	2月6日星期六	月21日星期四	月6日星期六	2		0 days		100%
752	CSA-PMI-279			279	Revised Foundation Layout	0 days	NA	NA	3 days	4月9日星期四	4月15日星期三	月9日星期四	月15日星期三	4		0 days		100%
753	CSA-2000				Predrilling (4nrs, 1rig, 4days/drillhole/rig)	7 days	5月20日星期三	5月27日星期三	7 days	5月20日星期三	5月27日星期三	月20日星期三	月27日星期三	5147	427,754	0 days		100%
754	CSA-3000				Pre-bored H piles (12nos, 1rigs, 4days/pile/rig)	19 days	2月20日星期六	3月13日星期六	19 days	2月20日星期六	3月13日星期六	月20日星期六	月13日星期六	3152,753,168,740,741,743	431,755	0 days	2	100%
755	CSA-4000				Pile Load Test	22 days	3月15日星期一	4月12日星期一	22 days	3月15日星期一	4月12日星期一	月15日星期一	月12日星期一	4754	757,756	0 days		100%
756	CSA-5000				Sheetpile Installation (FSP-II, 690sq.m, 40sqm/day)	28 days	4月13日星期二	5月15日星期六	28 days	4月13日星期二	5月15日星期六	月13日星期二	月15日星期六	5153,755,747	757	0 days		100%
757	CSA-6000				ELS works (1300cu.m soil with 2 layers wailing / strutting)	17 days	5月17日星期一	6月5日星期六	17 days	5月17日星期一	6月5日星期六	月17日星期一	月5日星期六	6756,155,755	759,758FF-3 emons	0 days	2	100%
758	CSA-6900				Receiving of Civil Requirements from PM	1 day	3月6日星期六	3月6日星期六	1 day	5月31日星期一	5月31日星期一	月31日星期一	月31日星期一	5757FF-3 emons	759SS-3 emons	0 days		100%
759	CSA-7000	KD1H			R.C. Structure works (including ELS demolition works)	142 days	5月27日星期四	11月13日星期六	201 days	5月27日星期四	1月25日星期二	月27日星期四	月25日星期二	1757,758SS-3 emons	49FF,760FF	0 days	5	100%
760	CSA-PMI-430			430	Revision of Architectural Layout	0 days	NA	NA	10 days	1月14日星期五	1月25日星期二	月14日星期五	月25日星期二	1759FF	761	0 days		100%
761	CSA-8000	KD1H			Allow access to Contractor DE/2018/03 for E&M installation and T&C works	0 days	1月7日星期五	1月7日星期五	1 day	3月11日星期五	3月11日星期五	月11日星期五	月11日星期五	3760	49FF,762SS-1 day	0 days		100%
762	CSA-8010				Water tightness test to the buildings	14 days	11月15日星期一	11月30日星期二	30 days	1月25日星期二	3月3日星期四	月25日星期二	月3日星期四	3761SS-1 day	763	0 days		100%
763	CSA-8020				Application of waterproof coatings in the buildings	30 days	12月1日星期三	1月7日星期五	40 days	3月4日星期五	4月23日星期六	月4日星期五	月23日星期六	4762	764,765	0 days		100%
764	**CSA-9000**	**SW1**			**ABWF works + BS works**	**90 days**	**6月14日星期二**	**9月28日星期三**	**313 days**	**4月25日星期一**	**5月15日星期一**	**月25日星期一**	**NA**	**763**	**56FF**	**-39 days**		**19%**
765	CSA-9010				ABWF works	90 days	6月14日星期二	9月28日星期三	250 days	4月25日星期一	2月24日星期五	月25日星期一	NA	763		-120 days		0%
766	**CSA-NCE484**		**484**		**Revised Works information for FRP Platform**	**0 days**	**NA**	**NA**	**132 days**	**11月30日星期三**	**5月15日星期一**	**月30日星期三**	**NA**			**-39 days**		**52%**
767	CSA-NCE484a				Shop Drawing Submission (CSF/918B) rejected by AECOM	0 days	NA	NA	0 days	11月30日星期三	11月30日星期三	月30日星期三	月30日星期三	11	768	0 days		100%
768	CSA-NCE484b				Shop Drawing Submission	0 days	NA	NA	52 days	11月30日星期三	1月20日星期五	月30日星期三	月20日星期五	1767	769	0 days		100%
769	CSA-NCE484c				Estimated approval date for shop drawing	0 days	NA	NA	21 days	1月21日星期六	2月17日星期五	月21日星期六	月17日星期五	2768	770	0 days		100%
770	CSA-NCE484d				Lead time for procurement and delivery	0 days	NA	NA	30 days	2月18日星期六	3月24日星期五	月18日星期六	NA	769	771	-183 days		5%
771	CSA-NCE484e				Idling for E&M works	0 days	NA	NA	2 days	3月25日星期六	3月27日星期一	NA	NA	770	772	-183 days		0%
772	CSA-NCE484f				Installation time	0 days	NA	NA	30 days	3月28日星期二	5月6日星期六	NA	NA	771	773	-183 days		0%
773	CSA-NCE484g				Additional time for installation	0 days	NA	NA	7 days	5月8日星期一	5月15日星期一	NA	NA	772		-183 days		0%
774	**CAS-0000**				**Auxiliary Structures, B-7**	**443 days**	**5月3日星期一**	**10月27日星期四**	**961 days**	**10月19日星期一**	**1月15日星期一**	**月19日星期一**	**NA**	**12**		**565 days**		**80%**
775	CAS-1000				Demolition of Existing Facilitates and Structures (leachate pump pit & pumping station)	120 days	5月3日星期一	9月23日星期四	120 days	5月3日星期一	9月23日星期四	月3日星期一	月23日星期四	9142,180,182		0 days		100%
776	**CFS-1000**	*		**301**	**Fire Services Sprinkler Pumping Room & Emergency Generator House (9)+(10)****	**442 days**	**5月4日星期二**	**10月27日星期四**	**555 days**	**5月4日星期二**	**3月15日星期三**	**月4日星期二**	**NA**			**813 days**		**92%**
777	CFS-1000		268	384, 479	Water Sampling and Testing for existing effluent pump pit	220 days	5月4日星期二	1月25日星期二	249 days	5月4日星期二	3月3日星期四	月4日星期二	NA	5	778FS+167 days	1119 days		99%
778	CFS-1150			86	Identification, decommission and demolition of the existing kiosk	26 days	5月18日星期二	6月18日星期五	26 days	5月18日星期二	6月18日星期五	月18日星期二	月18日星期五	6777FS+167 days	835,779	0 days		100%
779	CFS-PMI-483		230,238,2	483	Additional Cleaning and Pumping Works along EVA outside MFB No.1	0 days	NA	NA	7 days	7月21日星期三	7月28日星期三	月21日星期三	月28日星期三	7778	780	0 days		100%
780	CFS-PMI-580a		258	580	Additional Cleaning and Pumping Works at Excavated Trench of MFB No.2 and EVA outside MFB No.1	0 days	NA	NA	7 days	11月1日星期一	11月8日星期一	月1日星期一	月8日星期一	11779	781	0 days		100%
781	CFS-1100		285, 230,	85	Provision of Flowmeter chamber, gate valve chamber and diversion works of existing pipes near SSSH	110 days	6月19日星期六	10月29日星期五	59 days	8月25日星期三	11月4日星期四	月25日星期三	月4日星期四	11780	785,782	0 days		100%
782	CFS-PMI-626			626	Left-in Sheet Piles for Flowmeter Chamber Construction	0 days	NA	NA	7 days	11月1日星期一	11月8日星期一	月1日星期一	月8日星期一	11781	783	0 days		100%
783	CFS-1250		288	202	Diversion of DN250 Leachate Rising Main near SSSH	18 days	7月28日星期三	8月17日星期二	12 days	11月29日星期一	12月11日星期六	月29日星期一	月11日星期六	12782		0 days		100%
784	CFS-1200			86	Decommission and demolition of the existing pump pit and associated sewerage manholes and pipes	40 days	10月30日星期六	12月15日星期三	7 days	11月22日星期一	11月29日星期一	月22日星期一	月29日星期一	11785	788	0 days		100%
785	CFS-1300			256	E&M provision of flowmeter chamber and associated sewerage for effluent and sewage from SSSH	60 days	8月18日星期三	10月29日星期五	14 days	11月5日星期五	11月20日星期六	月5日星期五	月20日星期六	11781,786FF	784	0 days		100%
786	CFS-PMI-586			586	Additional Core Holes for Flowmeter Chamber	0 days	NA	NA	2 days	11月15日星期一	11月16日星期二	月15日星期一	月16日星期二	11	785FF	0 days		100%
787	CFS-PMI-578a		205	578	Unexpected Sewage Overflow near MFB No.1 and auxciliary facilities	0 days	NA	NA	7 days	1月14日星期五	1月21日星期五	月14日星期五	月21日星期五	1	788	0 days		100%
788	CFS-2000				Excavation for Raft Footing (800cu.m)	44 days	12月16日星期四	2月11日星期五	40 days	1月21日星期五	3月11日星期五	月21日星期五	月11日星期五	3784,787	789,790,792FF-3 mons	0 days		100%
789	~~CFS-2900~~				~~Soil Replacement (14 layers SRT)~~	~~42 days~~	~~2月11日星期五~~	~~3月25日星期五~~	~~42 edays~~	~~3月11日星期五~~	~~4月22日星期五~~	~~NA~~	~~NA~~	~~788~~		~~1310 ed...~~		~~0%~~
790	~~CFS-2910~~				~~Grade 200 Rockfill under Raft Footing~~	~~0 days~~	~~NA~~	~~NA~~	~~14 days~~	~~3月12日星期六~~	~~3月28日星期一~~	~~NA~~	~~NA~~	~~788~~		1098 days		0%
791	CFS-3000				Plate load test (PLT20A)	14 days	3月26日星期六	4月12日星期二	6 days	8月30日星期一	9月4日星期六	月30日星期一	月4日星期六	9		0 days		100%
792	CFS-3900				Receiving of Civil Requirements from PM	1 day	12月20日星期一	12月20日星期一	1 day	7月21日星期三	7月21日星期三	月21日星期三	月21日星期三	7788FF-3 mons		0 days		100%
793	CFS-PMI-674a		337	674	Additional Cleaning and Pumping Works for Sewage Pipelines laying and reinstatement works	0 days	NA	NA	7 days	6月9日星期四	6月16日星期四	月9日星期四	月16日星期四	6	794FF	0 days		100%
794	CFS-4000		298,303,3		R.C. structure works	40 days	4月13日星期三	6月4日星期六	131 days	3月12日星期六	8月20日星期六	月12日星期六	月20日星期六	8793FF	51FF,823,795FF,819	0 days	2	100%
795	CFS-PMI-0301			301	revised general layout and structure drawing	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五	月20日星期六	8794FF	796FF	0 days		100%
796	CFS-PMI-504			504	revised civil requirements	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五	月20日星期六	8795FF	797FF	0 days		100%
797	CFS-PMI-640			640	updated general arrangement (structural, architectural, E&M)	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五	月20日星期六	8796FF	798FF	0 days		100%
798	CFS-PMI-676			676	additional works (lifting bolts, revise location of puddles, manhole dimension, kerb, and blank flange)	0 days	NA	NA	7 days	8月13日星期六	8月20日星期六	月13日星期六	月20日星期六	8797FF	799FF	0 days		100%
799	CFS-PMI-701			701	revise road contour and terrin level	0 days	NA	NA	1 day	8月20日星期六	8月20日星期六	月20日星期六	月20日星期六	8798FF	800FF	0 days		100%
800	CFS-PMI-700			700	revise watermain layout	0 days	NA	NA	7 days	8月13日星期六	8月20日星期六	月13日星期六	月20日星期六	8799FF	801FF	0 days		100%
801	CFS-NCE-230		230		Unexpected leakage of existing pump pit at SSSH, seweage overflow at manhole MH06	0 days	NA	NA	1 day	8月20日星期六	8月20日星期六	月20日星期六	月20日星期六	8800FF	802FF	0 days		100%
802	CFS-NCE-258		258		Unexpected sewage overflow incident	0 days	NA	NA	1 day	8月20日星期六	8月20日星期六	月20日星期六	月20日星期六	8801FF	803FF	0 days		100%
803	CFS-NCE-262		262		additional works for diversion od leachate pipe near SSSH and MTRC track	0 days	NA	NA	7 days	8月13日星期六	8月20日星期六	月13日星期六	月20日星期六	8802FF	804FF	0 days		100%
804	CFS-NCE-268		268		Extension of water sampling by auto sampler and testing at SSSH effluent pump pit	0 days	NA	NA	7 days	8月13日星期六	8月20日星期六	月13日星期六	月20日星期六	8803FF	805FF	0 days		100%
805	CFS-NCE-285		285.		instructed by the Supervisor to carry out coring works	0 days	NA	NA	7 days	8月13日星期六	8月20日星期六	月13日星期六	月20日星期六	8804FF	806FF	0 days		100%
806	CFS-NCE-286		286		revised details of MHFB51, MHFB51A, and flowmeter chamber near SSSH	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五	月20日星期六	8805FF	807FF	0 days		100%
807	CFS-NCE-288		288		Additional pipe diversion works for DN250 pipe	0 days	NA	NA	1 day	8月20日星期六	8月20日星期六	月20日星期六	月20日星期六	8806FF	808FF	0 days		100%
808	CFS-NCE-294		294		Instructed to lay over grade200 rockfill with blinding layer, and provide concrete surround to the mis-aligned DN250 PE golf pipe	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五	月20日星期六	8807FF	809FF	0 days		100%
809	CFS-NCE-298		298		Additional obstacle removal works near FSPR	0 days	NA	NA	7 days	8月13日星期六	8月20日星期六	月13日星期六	月20日星期六	8808FF		0 days		100%
810	CFS-NCE-303		303		Revised structural framing	0 days	NA	NA	21 days	7月28日星期四	8月20日星期六	月28日星期四	月20日星期六	8	811FF	0 days		100%
811	CFS-NCE-309		309		Revised civil requirements	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五	月20日星期六	8810FF	812FF	0 days		100%
812	CFS-NCE-311		311		Additional cleaning works due to seweage overflow	0 days	NA	NA	7 days	8月13日星期六	8月20日星期六	月13日星期六	月20日星期六	8811FF	813FF	0 days		100%
813	CFS-NCE-315		315		change in civil requirement	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五	月20日星期六	8812FF	814FF	0 days		100%
814	CFS-NCE-317		317		Additional cleaning works due to unexpected seweage overflow	0 days	NA	NA	7 days	8月13日星期六	8月20日星期六	月13日星期六	月20日星期六	8813FF	815FF	0 days		100%



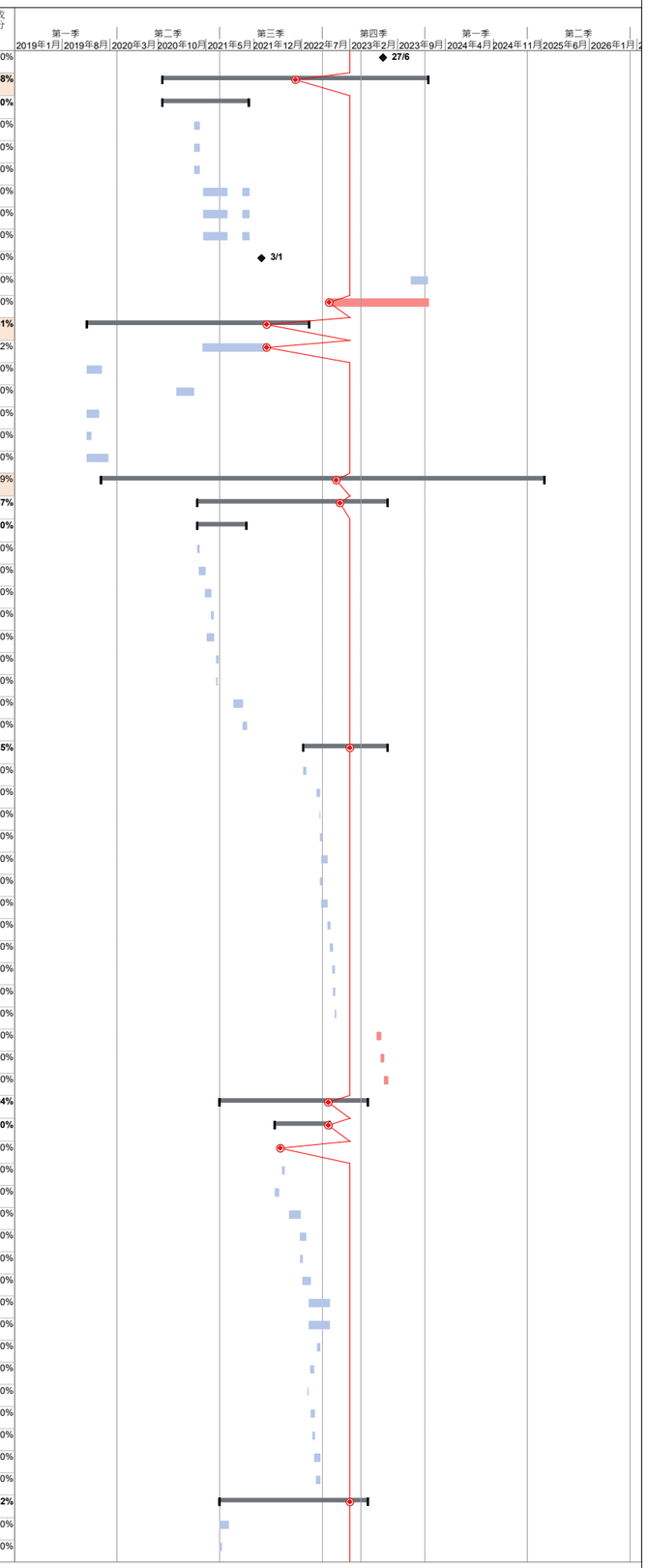
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
815	CFS-NCE-324		324		change in civil requirement	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五8	月20日星期六8	814FF	816FF	0 days		100%
816	CFS-NCE-337		337		Additional cleaning works due to unexpected seweage overflow	0 days	NA	NA	7 days	8月13日星期六	8月20日星期六	月13日星期六8	月20日星期六8	815FF	817FF	0 days		100%
817	CFS-NCE-358		358		change in work information (reroute pipe)	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五8	月20日星期六8	816FF	818FF	0 days		100%
818	CFS-NCE-360		360		change in civil requirement	0 days	NA	NA	14 days	8月5日星期五	8月20日星期六	月5日星期五8	月20日星期六8	817FF		0 days		100%
819	CFS-5000				Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	7月11日星期一	7月11日星期一	1 day	8月29日星期一	8月29日星期一	月29日星期一8	月29日星期一8	794	51FF,820SS-1 day	0 days		100%
820	CFS-4010				Water tightness test to the buildings	10 days	6月6日星期一	6月16日星期四	14 days	9月29日星期四	10月17日星期一	月29日星期四9	月17日星期一10	819SS-1 day	821,828,829,830	0 days		100%
821	CFS-4020				Application of waterproof coatings in the buildings	20 days	6月17日星期五	7月11日星期一	20 days	10月18日星期二	11月9日星期三	月18日星期二10	月9日星期三11	820		0 days		100%
822	**CFS-6000**				**ABWF + BS works**	**90 days**	**7月12日星期二**	**10月27日星期四**	**161 days**	**8月22日星期一**	**3月7日星期二**	**月22日星期一8**	**NA**			**356 days**		**98%**
823	CFS-6010				RC Defect Rectification works and Site Clearance	0 days	NA	NA	15 days	8月22日星期一	9月7日星期三	月22日星期一8	月7日星期三9	794	824,825,826,827	0 days		100%
824	CFS-6020				FS LV Switch Room	0 days	NA	NA	100 days	9月11日星期日	1月12日星期四	月11日星期日9	月12日星期四1	823	831	0 days		100%
825	CFS-6030				Emergency Generator Room	0 days	NA	NA	100 days	9月16日星期五	1月16日星期一	月16日星期五9	月16日星期一1	823	831	0 days		100%
826	CFS-6040				DG Room	0 days	NA	NA	100 days	9月16日星期五	1月16日星期一	月16日星期五9	月16日星期一1	823	831	0 days		100%
827	CFS-6050				FS Pump Room	0 days	NA	NA	100 days	9月11日星期日	1月12日星期四	月11日星期日9	月12日星期四1	823	831	0 days		100%
828	CFS-6060				Water Tank	0 days	NA	NA	100 days	10月18日星期二	2月17日星期五	月18日星期二10	月17日星期五2	820	831	0 days		100%
829	CFS-6070				Roof	0 days	NA	NA	100 days	10月18日星期二	2月17日星期五	月18日星期二10	月17日星期五2	820	831	0 days		100%
830	CFS-6080				External Wall	0 days	NA	NA	100 days	10月18日星期二	2月17日星期五	月18日星期二10	月17日星期五2	820	831	0 days		100%
831	CFS-6090				Site Clearance	0 days	NA	NA	1 day	2月18日星期六	2月18日星期六	月18日星期六2	月18日星期六2	824,825,826,827,828,829	833,832	0 days		100%
832	CFS-PMI-0476			476	Design, supply, install, test for the revised drainage system	0 days?	NA	NA	14 days	2月20日星期一	3月7日星期二	月20日星期一2	NA	831	833	356 days		0%
833	CFS-6100	SW1			Inspection and Handover	0 days	NA	NA	7 days	3月8日星期三	3月15日星期三	NA	NA	831,832	56FF	356 days		0%
834	**CCS-1000**	*	**295,297**		**Chemical System No.1 (8)***	**323 days**	**8月27日星期五**	**9月28日星期三**	**519 days**	**7月13日星期二**	**4月13日星期四**	**月13日星期二7**	**NA**			**335 days**		**95%**
835	CCS-1310			086	Demolition of SSSH Pump Pit and Associated Sewerage System	40 days	11月18日星期四	1月6日星期四	40 days	11月18日星期四	1月6日星期四	月18日星期四11	月6日星期四1	778		0 days		100%
836	CCS-1110			241	Removal of existing Leachate Rising Main near SSSH	12 days	12月30日星期四	1月13日星期四	12 days	12月30日星期四	1月13日星期四	月30日星期四12	月13日星期四1			0 days		100%
837	CCS-1100				Excavation for Raft Footing (20cu.m)	10 days	1月14日星期五	1月25日星期二	15 days	11月8日星期一	11月24日星期三	月8日星期一11	月24日星期三11		841FF-3 emons,838FF	0 days		100%
838	CCS-PMI-0543			543	revised raft footing	0 days	NA	NA	14 days	11月9日星期二	11月24日星期三	月9日星期二11	月24日星期三11	837FF	839	0 days		100%
839	CCS-1150				Grade 200 Rockfill under Raft Footing	0 days	NA	NA	0 days	11月24日星期三	11月24日星期三	月24日星期三11	月24日星期三11	838	850	0 days		100%
840	CCS-NCE-0262		262		additional works for diversion of leachate pipe near SSSH and MTRC track	0 days	NA	NA	7 days	12月9日星期四	12月16日星期四	月9日星期四12	月16日星期四12			0 days		100%
841	CCS-1190				Receiving of Civil Requirements from PM	1 day	10月27日星期三	10月27日星期三	1 day	7月21日星期三	7月21日星期三	月21日星期三7	月21日星期三7	837FF-3 emons	842	0 days		100%
842	CCS-NCE-0230		230		unexpected leakage of existing pump pit at SSSH, seweage overflow at manhole MH06	0 days	NA	NA	4 days	7月13日星期二	7月16日星期五	月13日星期二7	月16日星期五7	841	843	0 days		100%
843	CCS-1200				Plate load test (PLT16)	8 days	8月27日星期五	9月4日星期六	8 days	8月27日星期五	9月4日星期六	月27日星期五8	月4日星期六9	842		0 days		100%
844	CCS-NCE-0205		205		unexpected sewerage flow near MFB1	0 days	NA	NA	7 days	1月14日星期五	1月21日星期五	月14日星期五1	月21日星期五1			0 days		100%
845	CCS-PMI-648			648	Additional Cleaning Works for Works Area and EVA near Chemical System No.1	0 days	NA	NA	5 days	3月2日星期三	3月7日星期一	月2日星期三3	月7日星期一3	850FF		0 days		100%
846	CCS-NCE-0295		295		additional cleaning works due to unexpected seweage overflow	0 days	NA	NA	7 days	3月2日星期三	3月9日星期三	月2日星期三3	月9日星期三3			0 days		100%
847	CCS-NCE-0311		311		additional cleaning works due to seweage overflow	0 days	NA	NA	7 days	4月14日星期四	4月25日星期一	月14日星期四4	月25日星期一4			0 days		100%
848	CCS-NCE-0317		317		additional cleaning works due to unexpected seweage overflow	0 days	NA	NA	7 days	5月6日星期五	5月14日星期六	月6日星期五5	月14日星期六5			0 days		100%
849	CCS-NCE-0337		337		additional cleaning works due to unexpected seweage overflow	0 days	NA	NA	3 days	6月9日星期四	6月11日星期六	月9日星期四6	月11日星期六6			0 days		100%
850	**CCS-1300**			**543**	**R.C. structure works**	**0 days**	**1月26日星期三**	**4月9日星期六**	**88 days**	**12月10日星期五**	**3月29日星期二**	**月10日星期五12**	**月29日星期二3**	**839**	**51FF,845FF**	**0 days**	**2**	**100%**
851	CCS-1301				R.C. for base slab	0 days	NA	NA	40 days	12月10日星期五	1月28日星期五	月10日星期五12	月28日星期五1		852	0 days		100%
852	CCS-PMI-366			366	revised bund wall, staircase, concrete surround, and additional finishes	0 days	NA	NA	21 days	1月29日星期六	2月25日星期五	月29日星期六1	月25日星期五2	851	853	0 days		100%
853	CCS-PMI-0523			523	amend staircase, plinth, bund wall, sump pit	0 days	NA	NA	14 days	2月26日星期六	3月14日星期一	月26日星期六2	月14日星期一3	852	854	0 days		100%
854	CCS-1302				R.C. for bund wall and plinth	0 days	NA	NA	48 days	1月29日星期六	3月29日星期二	月29日星期六1	月29日星期二3	853	51FF	0 days		100%
855	CCS-1303				R.C. for concrete surround of steel columns	0 days	NA	NA	10 days	12月21日星期三	1月4日星期三	月21日星期三12	月4日星期三1		856FS+30 days	0 days		100%
856	CCS-1304				R.C. for external staircases	0 days	NA	NA	10 days	2月13日星期一	2月23日星期四	月13日星期一2	月23日星期四2	855FS+30 days		0 days		100%
857	**CCS-1350**				**Steel Shelter Construction**	**0 days**	**NA**	**NA**	**301 days**	**4月4日星期一**	**4月13日星期四**	**月4日星期一4**	**NA**			**335 days**		**91%**
858	CCS-1400				Procurement of steel in HK	0 days	NA	NA	21 days	4月4日星期一	5月3日星期二	月4日星期一4	月3日星期二5	859SF	905SS	0 days		100%
859	CCS-1500		296,300,		Deliver steel material from HK to mainland factory	0 days	NA	NA	15 days	5月3日星期二	5月20日星期五	月3日星期二5	月20日星期五5	860SF	906SS,858SF	0 days		100%
860	CCS-1600		289		Offsite Fabrication of steelwork	0 days	NA	NA	40 days	5月20日星期五	7月7日星期四	月20日星期五5	月7日星期四7	861SF	907SS,859SF,862FF,864FF,863F	0 days		100%
861	CCS-1700				Transportation of fabricated steel to site	0 days	NA	NA	11 days	7月18日星期一	7月29日星期五	月18日星期一7	月29日星期五7		909SS,860SF	0 days		100%
862	CCS-PMI-0543			543	revised steel roof details	0 days	NA	NA	14 days	6月21日星期二	7月7日星期四	月21日星期二6	月7日星期四7	860FF		0 days		100%
863	CCS-NCE-0264		264		revised roof level and change in painting system	0 days	NA	NA	14 days	6月21日星期二	7月7日星期四	月21日星期二6	月7日星期四7	860FF		0 days		100%
864	CCS-NCE-0300		300		Delay of transportation time: lockdown in mainland china	0 days	NA	NA	14 days	6月21日星期二	7月7日星期四	月21日星期二6	月7日星期四7	860FF		0 days		100%
865	**CCS-1800**				**Installation of steelworks**	**0 days**	**NA**	**NA**	**120 days**	**7月21日星期四**	**12月10日星期六**	**月21日星期四7**	**月25日星期二10**			**0 days**		**100%**
866	CCS-1801				installation of holding down bolt	0 days	NA	NA	10 days	7月21日星期四	8月1日星期一	月21日星期四7	月1日星期一8		869	0 days		100%
867	CCS-1802				installation of steel shelter	0 days	NA	NA	72 days	7月30日星期六	10月25日星期二	月30日星期六7	月25日星期二10			0 days		100%
868	CCS-1900	KD1J			Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	4月9日星期六	4月9日星期六	0 days	9月5日星期一	9月5日星期一	月5日星期一9	月5日星期一9	870	51FF,875,874	0 days		100%
869	CCS-PMI-0591			591	engage in HOKLAS lab to carry out tensile test and prof-load test of M36 bolt	0 days?	NA	NA	2 days	8月2日星期二	8月3日星期三	月2日星期二8	月3日星期三8	866	870	0 days		100%
870	CCS-NCE-0362		0362		engage in independent private laboratory for testing for bolts&nuts	0 days?	NA	NA	14 days	8月4日星期四	8月19日星期五	月4日星期四8	月19日星期五8	869	868	0 days		100%
871	**CCS-2000**				**ABWF works + BS works**	**90 days**	**6月14日星期二**	**9月28日星期三**	**154 days**	**10月3日星期一**	**4月12日星期三**	**月3日星期一10**	**NA**			**335 days**		**79%**
872	CCS-PMI-048			048	construct the amended drainage system	0 days	NA	NA	14 days	10月12日星期三	10月27日星期四	月12日星期三10	月27日星期四10	875	873	0 days		100%
873	CCS-PMI-0557			557	design, supply, deliver and install the drainage system to revised layout	0 days	NA	NA	14 days	10月28日星期五	11月12日星期六	月28日星期五10	月12日星期六11	872	876	0 days		100%
874	CCS-PMI-0729			729	design, supply and install the FRP handrailing	0 days	NA	NA	14 days	10月3日星期一	10月19日星期三	月3日星期一10	月19日星期三10	868	56FF	0 days		100%
875	CCS-2010				Floor Drain Works (By DE/2018/04)	0 days	NA	NA	7 days	10月3日星期一	10月11日星期二	月3日星期一10	月11日星期二10	868	872	0 days		100%
876	CCS-2020				Inspection	0 days	NA	NA	1 day	11月12日星期六	11月12日星期六	月12日星期六11	月12日星期六11	873	877	0 days		100%
877	CCS-2030				EG & FS Pump Room External Tile Facing CS1	0 days	NA	NA	14 days	11月14日星期一	11月29日星期二	月14日星期一11	月29日星期二11	876	878	0 days		100%
878	CCS-2040				Bund Wall and Floor Finish	0 days	NA	NA	105 days	11月30日星期三	4月12日星期三	月30日星期三11	NA	877	879	335 days		66%
879	CCS-2050				Inspection and Handover	0 days	NA	NA	1 day	4月13日星期四	4月13日星期四	NA	NA	878	56FF	335 days		0%
880	**CDS-0000**	*			**Deodorization System No.3A (7)***	**159 days**	**6月11日星期五**	**12月18日星期六**	**387 days**	**6月11日星期五**	**9月28日星期三**	**月11日星期五6**	**月28日星期三9**			**0 days**		**100%**
881	CDS-2000				Excavation for Raft Footing (400cu.m)	20 days	8月26日星期四	9月17日星期五	60 days	1月31日星期一	4月14日星期四	月31日星期一1	月14日星期四4		884,883FF-3 emons	0 days		100%
882	CDS-3000				Plate load test (PLT15)	8 days	6月11日星期五	6月21日星期一	8 days	6月11日星期五	6月21日星期一	月11日星期五6	月21日星期一6			0 days		100%



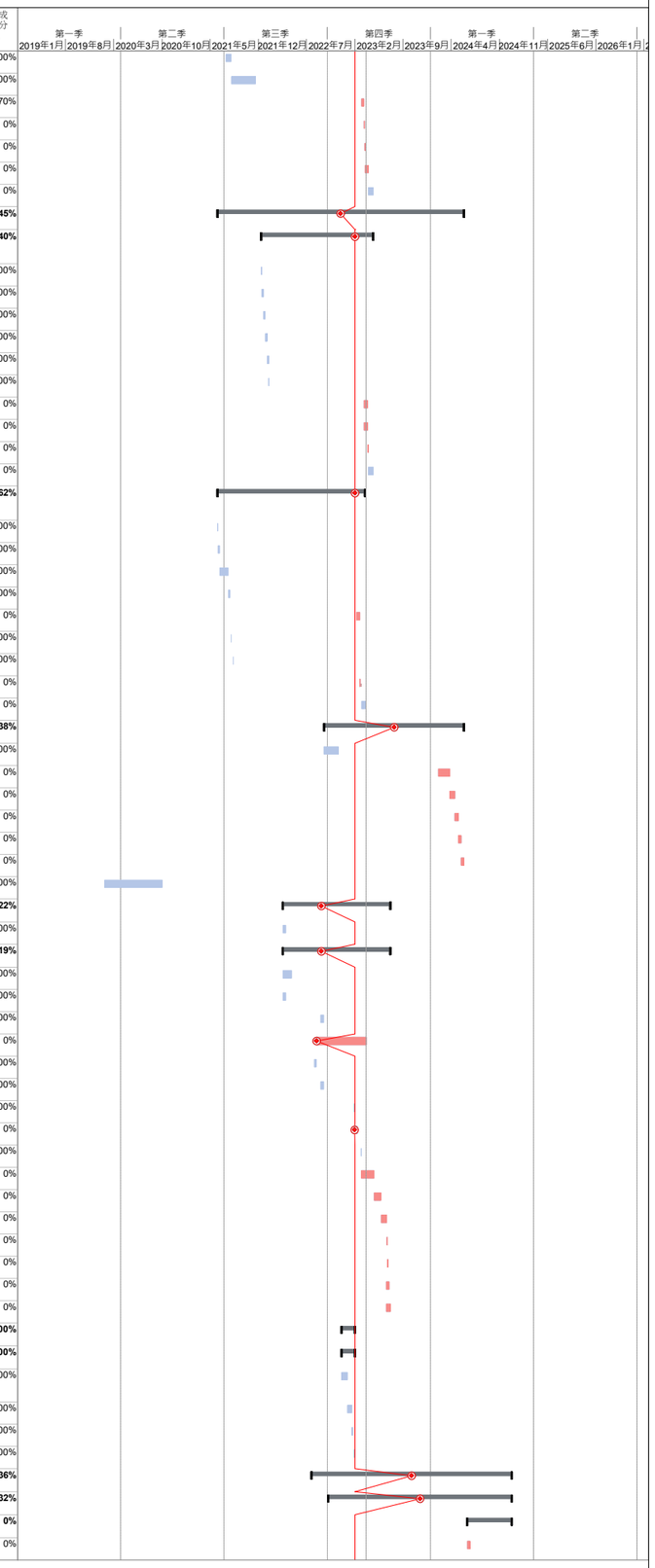
識別碼	Activity ID	Key Date	NCE/(EW)	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
883	CDS-3900				Receiving of Civil Requirements from PM	1 day	8月14日星期六	8月14日星期六	1 day	7月21日星期三	7月21日星期三	月21日星期三7	月21日星期三7	881FF-3 emons	892	0 days		100%
884	CDS-4000		325		Allow access to Contractor DE/2018/04 for earthing works	0 days	NA	NA	14 days	4月19日星期二	5月5日星期四	月19日星期二4	月5日星期四5	881	885	0 days		100%
885	CDS-5000				Grade 200 Rockfill under Raft Footing	0 days	NA	NA	5 days	7月7日星期四	7月12日星期二	月7日星期四7	月12日星期二7	884	886	0 days		100%
886	CDS-PMI-0509			509	Civil Provision of Deodorization System No. 3A	0 days	NA	NA	7 days	7月13日星期三	7月20日星期三	月13日星期三7	月20日星期三7	885	887	0 days		100%
887	CDS-PMI-0510			510	Revision of Structural Framing Plan of Deodorization System No.3A	0 days	NA	NA	7 days	7月21日星期四	7月28日星期四	月21日星期四7	月28日星期四7	886	888	0 days		100%
888	CDS-PMI-0655			655	Additional Protection of Earth Rods at Deodorization System No. 3A	0 days	NA	NA	7 days	7月29日星期五	8月5日星期五	月29日星期五7	月5日星期五8	887	889	0 days		100%
889	CDS-NCE-0297		297		Pumping and maintenance and replacement of rockfill due to unexpected water seepage	0 days	NA	NA	7 days	8月6日星期六	8月13日星期六	月6日星期六8	月13日星期六8	888	890	0 days		100%
890	CDS-NCE-0304		304		Changing structural framing	0 days	NA	NA	7 days	8月15日星期一	8月22日星期一	月15日星期一8	月22日星期一8	889	891	0 days		100%
891	CDS-NCE-0325		325		provide additional protection of earth rod	0 days	NA	NA	7 days	8月23日星期二	8月30日星期二	月23日星期二8	月30日星期二8	890		0 days		100%
892	CDS-6000		304	509	Footing works	30 days	11月15日星期一	12月18日星期六	21 days	9月3日星期六	9月28日星期三	月3日星期六9	月28日星期三9	883	893,51FF	0 days		100%
893	CDS-7000				Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	12月18日星期六	12月18日星期六	1 day	9月28日星期三	9月28日星期三	月28日星期三9	月28日星期三9	892	51FF,897	0 days		100%
894	**CTC-0000**	*			**Temporary Chemical Dosing System (5)**	**312 days**	**9月9日星期四**	**9月28日星期三**	**466 days**	**6月3日星期四**	**12月23日星期五**	**月3日星期四6**	**月23日星期五12**			**0 days**		**100%**
895	CTC-NCE-0297		297		delay of work starting time: water seepage between MHD7A to MHD7B	0 days	NA	NA	14 days	3月18日星期五	4月2日星期六	月18日星期五3	月2日星期六4			0 days		100%
896	CTC-1000				Plate load test (PLT9)	14 days	11月23日星期二	12月8日星期三	7 days	6月3日星期四	6月10日星期四	月3日星期四6	月10日星期四6			0 days		100%
897	CTC-2000				Excavation for Raft Footing (300cu.m)	30 days	9月16日星期四	10月24日星期日	3 days	8月16日星期二	8月18日星期四	月16日星期二8	月18日星期四8	893	898,899FF-3 emons	0 days		100%
898	CTC-3000				Grade 200 Rockfill under Raft Footing	0 days	NA	NA	2 days	8月19日星期五	8月20日星期六	月19日星期五8	月20日星期六8	897	900	0 days		100%
899	CTC-4000				Receiving of Civil Requirements from PM	1 day	9月9日星期四	9月9日星期四	1 day	7月21日星期三	7月21日星期三	月21日星期三7	月21日星期三7	897FF-3 emons	900,911	0 days		100%
900	**CTC-5000**				**R.C. structure works**	**45 days**	**12月9日星期四**	**2月5日星期六**	**32 days**	**8月22日星期一**	**9月28日星期三**	**月22日星期一8**	**月28日星期三9**	**899,898**	**51FF,911FS+2 days**	**0 days**	**1**	**100%**
901	CTC-5001				R.C. for base slab	0 days	NA	NA	14 days	8月22日星期一	9月6日星期二	月22日星期一8	月6日星期二9		902	0 days		100%
902	CTC-5002				R.C. for bund wall, plinth, and stairs	0 days	NA	NA	7 days	9月7日星期三	9月15日星期四	月7日星期三9	月15日星期四9	901	903	0 days		100%
903	CTC-PMI-0524			524	advised concrete plinths, bund wall, sump pit, and finishes schedule	0 days	NA	NA	11 days	9月16日星期五	9月28日星期三	月16日星期五9	月28日星期三9	902		0 days		100%
904	CTC-5050				**Steel Member preparation**	**0 days**	**NA**	**NA**	**140 days**	**4月4日星期一**	**9月23日星期五**	**月4日星期一4**	**月23日星期五9**			**0 days**		**100%**
905	CTC-6000				Procurement of steel in HK	0 days	NA	NA	21 days	4月4日星期一	5月3日星期二	月4日星期一4	月3日星期二5	858SS		0 days		100%
906	CTC-7000		296,300,		Deliver steel material from HK to mainland factory	0 days	NA	NA	15 days	5月3日星期二	5月20日星期五	月3日星期二5	月20日星期五5	859SS		0 days		100%
907	CTC-8000		289		Offsite Fabrication of steelwork	0 days	NA	NA	19 days	5月20日星期五	6月11日星期六	月20日星期五5	月11日星期六6	860SS		0 days		100%
908	CTC-NCE-0300		300		delay of transportation time: lockdown in mainland china	0 days	NA	NA	14 days	9月7日星期三	9月23日星期五	月7日星期三9	月23日星期五9	909FF		0 days		100%
909	CTC-9000				Transportation of fabricated steel to site	0 days	NA	NA	66 days	7月8日星期五	9月23日星期五	月8日星期五7	月23日星期五9	861SS	908FF,910FF	0 days		100%
910	CTC-NCE-0269		269		change in works info: superstructure change from RC to steel	0 days	NA	NA	60 days	7月15日星期五	9月23日星期五	月15日星期五7	月23日星期五9	909FF	911	0 days		100%
911	**CTC-10000**				**Fabrication and installation of steelworks**	**0 days**	**NA**	**NA**	**76 days**	**9月24日星期六**	**12月23日星期五**	**月24日星期六9**	**月23日星期五12**	**899,900FS+2 days,910**		**0 days**		**100%**
912	CTC-PMI-0591			591	engage in HOKLAS lab to carry out tensile test and prof-load test of M36 bolt	0 days	NA	NA	2 days	9月24日星期六	9月26日星期一	月24日星期六9	月26日星期一9	915SS	913	0 days		100%
913	CTC-NCE-0362		362		engage in independent private laboratory for testing for bolts&nuts	0 days	NA	NA	14 days	9月28日星期三	10月15日星期六	月28日星期三9	月15日星期六10	912,914	916	0 days		100%
914	CTC-PMI-0563			563	revised steel roof details, and provide footing fixing detail	0 days	NA	NA	14 days	9月28日星期三	10月15日星期六	月28日星期三9	月15日星期六10	915	913	0 days		100%
915	CTC-10010				installation of holding down bolt	0 days	NA	NA	3 days	9月24日星期六	9月27日星期二	月24日星期六9	月27日星期二9		912SS,914,917FS+1 day	0 days		100%
916	CTC-10011				installation of steel shelter	0 days	NA	NA	73 days	9月28日星期三	12月23日星期五	月28日星期三9	月23日星期五12	913		0 days		100%
917	CTC-11000	KD1J			Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2月5日星期六	2月5日星期六	0 days	9月28日星期三	9月28日星期三	月28日星期三9	月28日星期三9	915FS+1 day	51FF,919	0 days		100%
918	**CTC-12000**				**ABWF Works + BS works**	**90 days**	**6月14日星期二**	**9月28日星期三**	**45 days**	**9月28日星期三**	**11月21日星期一**	**月28日星期三9**	**月21日星期一11**			**0 days**		**100%**
919	CTC-12010				Floor Drain Works (By DE/2018/04)	0 days	NA	NA	14 days	9月28日星期三	10月15日星期六	月28日星期三9	月15日星期六10	917	920	0 days		100%
920	CTC-12020				Inspection	0 days	NA	NA	1 day	10月17日星期一	10月17日星期一	月17日星期一10	月17日星期一10	919	921	0 days		100%
921	CTC-12030				Bund Wall and Floor Finish	0 days	NA	NA	30 days	10月18日星期二	11月21日星期一	月18日星期二10	月21日星期一11	920	922	0 days		100%
922	CTC-13000				Inspection and Handover	0 days	NA	NA	1 day	11月22日星期二	11月22日星期二	月22日星期二11	月22日星期二11	921	56FF	0 days		100%
923	**CFB-0000**	*			**Fire Hydrant and Booster Pump Room (13)***	**193 days**	**2月5日星期六**	**9月28日星期三**	**536 days**	**10月29日星期五**	**8月21日星期一**	**月29日星期五10**	**NA**			**228 days**		**3%**
924	CFB-1000				Excavation for Raft Footing (200cu.m)	30 days	2月24日星期四	3月30日星期三	20 days	4月3日星期一	4月29日星期六	NA	NA	381	926,927FF-3 emons	-111 days		0%
925	CFB-2000				Plate load test (PLT 6)	10 days	4月20日星期三	5月3日星期二	7 days	10月29日星期五	11月5日星期五	月29日星期五10	月5日星期五11			0 days		100%
926	CTC-2500				Grade 200 Rockfill under Raft Footing	0 days	NA	NA	7 days	5月2日星期二	5月9日星期二	NA	NA	924	928	-111 days		0%
927	CFB-2900				Receiving of Civil Requirements from PM	1 day	2月5日星期六	2月6日星期日	1 day	1月27日星期四	1月27日星期四	月27日星期四1	月27日星期四1	924FF-3 emons	928	0 days		100%
928	CFB-3000		306		R.C. structure works	30 days	5月7日星期六	6月13日星期一	30 days	5月10日星期三	6月14日星期三	NA	NA	926,927	929FF,44FF	-111 days	1	0%
929	CFB-PMI-638			638	revised general arrangement and associated works	0 days	NA	NA	14 days	5月30日星期二	6月14日星期三	NA	NA	928FF	930FF	-111 days		0%
930	CFB-PMI-590			590	revised structural layout	0 days	NA	NA	14 days	5月30日星期二	6月14日星期三	NA	NA	929FF	931FF	-111 days		0%
931	CFB-PMI-372			372	revised drainage system	0 days	NA	NA	14 days	5月30日星期二	6月14日星期三	NA	NA	930FF	932FF	-111 days		0%
932	CFB-PMI-362			362	relocation of existing street fire hydrant in B7	0 days	NA	NA	14 days	5月30日星期二	6月14日星期三	NA	NA	931FF	933FF	-111 days		0%
933	CFB-PMI-050			050	revised drainage system	0 days	NA	NA	14 days	5月30日星期二	6月14日星期三	NA	NA	932FF	934FF	-111 days		0%
934	CFB-NCE-306		306		Changing in works information	0 days	NA	NA	14 days	5月30日星期二	6月14日星期三	NA	NA	933FF	935FF	-111 days		0%
935	CFB-4000	KD1C			Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	6月13日星期一	6月13日星期一	1 day	6月14日星期三	6月14日星期三	NA	NA	934FF	936SF,44FF	-111 days		0%
936	CFB-4010				Water Tightness Test to the building	0 days	NA	NA	14 days	5月29日星期一	6月14日星期三	NA	NA	935SF	938,939,940,941	228 days		0%
937	**CFB-5000**				**ABWF works + BS works**	**90 days**	**6月14日星期二**	**9月28日星期三**	**47 days**	**6月14日星期三**	**8月9日星期三**	**NA**	**NA**			**228 days**		**0%**
938	CFB-5010				Pump Room	0 days	NA	NA	29 days	6月14日星期三	7月19日星期三	NA	NA	936	942	246 days		0%
939	CFB-5020				Water Tank	0 days	NA	NA	21 days	6月14日星期三	7月10日星期一	NA	NA	936	942	254 days		0%
940	CFB-5030				Roof	0 days	NA	NA	47 days	6月14日星期三	8月9日星期三	NA	NA	936	942	228 days		0%
941	CFB-5040				External Wall	0 days	NA	NA	28 days	6月14日星期三	7月18日星期二	NA	NA	936	942	247 days		0%
942	CFB-5100				Inspection and Handover	0 days	NA	NA	10 days	8月10日星期四	8月21日星期一	NA	NA	938,939,940,941	56FF	228 days		0%
943	**CDS1-0000**				**Deodorization System No.1 (6)***	**259 days**	**8月13日星期五**	**6月30日星期四**	**573 days**	**7月21日星期三**	**6月27日星期二**	**月21日星期三7**	**NA**			**-110 days**		**18%**
944	CDS1-NCE488		488		Additional Concrete Trimming Works due to Uncharted Concrete Surround	0 days	NA	NA	8 days	2月2日星期四	2月10日星期五	月2日星期四2	月10日星期五2		945	0 days		100%
945	CDS1-1000				Excavation for Raft Footing (400cu.m)	20 days	6月8日星期三	6月30日星期四	20 days	4月3日星期一	4月29日星期六	NA	NA	319,381,944	947,948FF-3 emons	-121 days		0%
946	CDS1-2000				Plate load test (PLT3)	6 days	11月5日星期五	11月11日星期四	6 days	11月5日星期五	11月11日星期四	月5日星期五11	月11日星期四11			0 days		100%
947	CDS1-2500				Grade 200 Rockfill under Raft Footing	0 days	NA	NA	10 days	5月2日星期二	5月12日星期五	NA	NA	945	949	-121 days		0%
948	CDS1-2900				Receiving of Civil Requirements from PM	0 days	8月13日星期五	8月13日星期五	1 day	7月21日星期三	7月21日星期三	月21日星期三7	月21日星期三7	945FF-3 emons		0 days		100%
949	CDS1-3000	KD1C			Footing works	30 days	11月12日星期五	12月16日星期四	30 days	5月13日星期六	6月17日星期六	NA	NA	947	56FF,950,44FF	-121 days		0%
950	CDS1-NCE-305		305		Changed structural framing	0 days	NA	NA	7 days	6月19日星期一	6月27日星期二	NA	NA	949	951	-121 days		0%



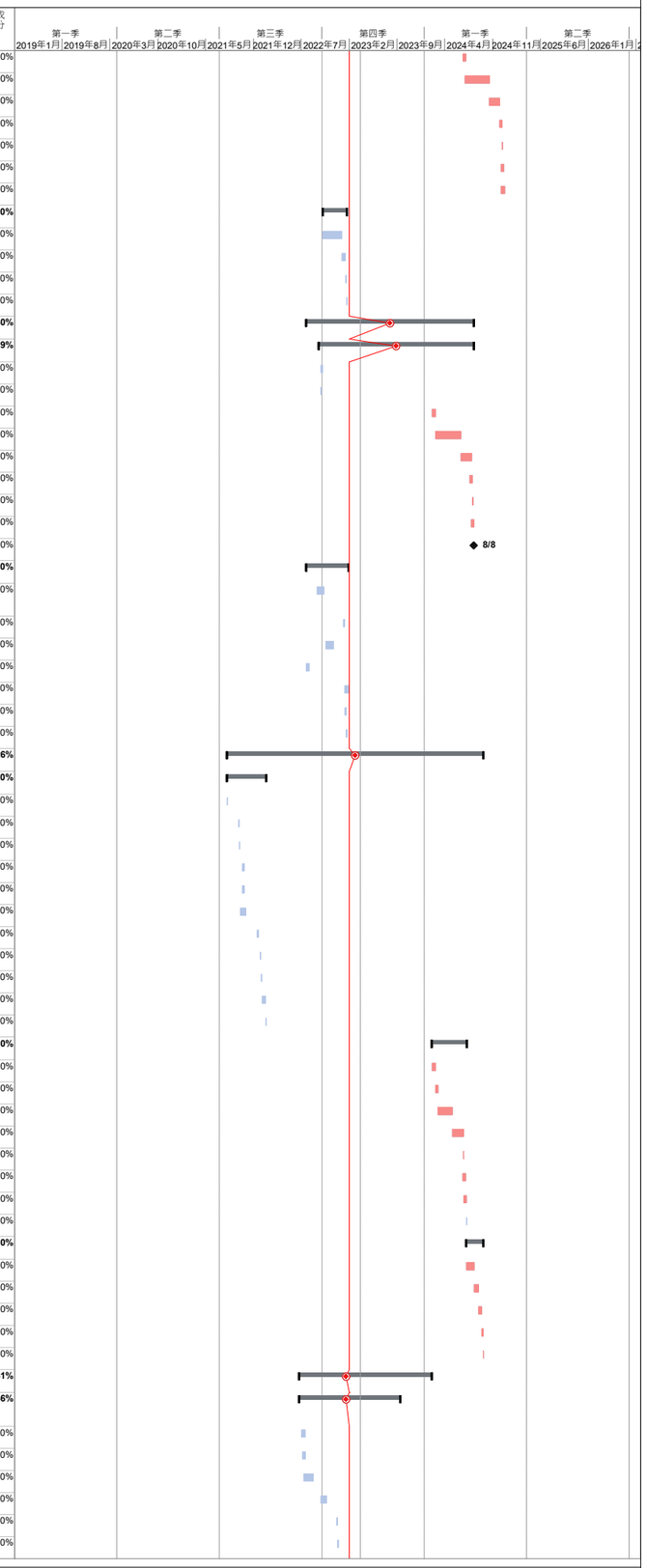
識別碼	Activity ID	Key Date	NCE/(EW)	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
951	CDS1-4000				Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	12月16日星期四	12月16日星期四	0 days	6月27日星期二	6月27日星期二	NA	NA	950	56FF,44FF	-121 days		0%
952	**CAA-0000**	*			**Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)**	**1074 days**	**11月18日星期一**	**7月6日星期四**	**961 days**	**10月19日星期一**	**1月15日星期一**	**月19日星期一**	**10 NA**			**0 days**		**68%**
953	**CAA-1000**	**KD2B**			**B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)**	**359 days**	**10月19日星期一**	**1月3日星期一**	**315 days**	**10月19日星期一**	**11月9日星期二**	**月19日星期一**	**10 月9日星期二**	**11 15,162,206**	**53FF**	**0 days**		**100%**
954	CAA-1100		057	(057)	Change of pipe bridge design	135 days	10月19日星期一	4月1日星期四	135 days	10月19日星期一	4月1日星期四	月19日星期一	10 月1日星期四	4	957,958,959	0 days		100%
955	CAA-1200				Additional inspection pit to verify the connection point to existing (CE xxx)	135 days	10月19日星期一	4月1日星期四	135 days	10月19日星期一	4月1日星期四	月19日星期一	10 月1日星期四	4	957,958,959	0 days		100%
956	CAA-1300				Additional MBV installation (CE xxx)	135 days	10月19日星期一	4月1日星期四	135 days	10月19日星期一	4月1日星期四	月19日星期一	10 月1日星期四	4	957,958,959	0 days		100%
957	CAA-1400				Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)	212 days	4月20日星期二	1月3日星期一	168 days	4月20日星期二	11月9日星期二	月20日星期二	4 月9日星期二	11 954,955,956	53FF	0 days		100%
958	CAA-1500	KD2B		064	Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases	212 days	4月20日星期二	1月3日星期一	168 days	4月20日星期二	11月9日星期二	月20日星期二	4 月9日星期二	11 954,955,956	53FF	0 days		100%
959	CAA-1600	KD2B	017	062	Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2	212 days	4月20日星期二	1月3日星期一	168 days	4月20日星期二	11月9日星期二	月20日星期二	4 月9日星期二	11 954,955,956	53FF,960	0 days		100%
960	CAA-2000	KD1I			B7-A Alternation works for existing Power House	0 days	1月3日星期一	1月3日星期一	0 days	1月3日星期一	1月3日星期一	月3日星期一	1 月3日星期一	1 13FS-1 day,142,180,182,	50FF,961FS+540 days	0 days		100%
961	CAA-2100	SW3		224	Additional works for Power House	60 days	3月18日星期六	6月2日星期五	60 days	10月31日星期二	1月11日星期四	NA	NA	960FS+540 days	58FF,54FF	3 days		0%
962	CAA-3000	SW3			Alternation works for existing Membrane Facilities Building No.1	360 days	4月19日星期二	7月6日星期四	359 days	10月31日星期一	1月15日星期一	NA	NA	14FS-1 day,195FS+160 d	58FF,54FF	0 days		0%
963	**C2AUU-0000**	*			**External Underground Service, Utilities, Road/Drain (KD2A)**	**802 days**	**11月18日星期一**	**8月3日星期三**	**802 days**	**11月18日星期一**	**8月3日星期三**	**月18日星期一**	**11 NA**	**16**		**996 days**		**81%**
964	C2AUU-1000	KD2A		33, 222, 255	Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)	530 days	10月19日星期一	8月3日星期三	530 days	10月19日星期一	8月3日星期三	月19日星期一	10 NA	206,162	52FF	996 days		72%
965	C2AUU-1000a	KD2A	029	33	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	54 days	11月18日星期一	1月22日星期三	54 days	11月18日星期一	1月22日星期三	月18日星期一	11 月22日星期三	1		0 days		100%
966	C2AUU-1000b	KD2A		255	Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.)	60 days	12月21日星期一	3月6日星期六	60 days	12月21日星期一	3月6日星期六	月21日星期一	12 月6日星期六	3	52FF	0 days		100%
967	C2AUU-1001	KD2A		033	Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area	43 days	11月18日星期一	1月9日星期四	43 days	11月18日星期一	1月9日星期四	月18日星期一	11 月9日星期四	1		0 days		100%
968	C2AUU-1002	KD2A		222	Grouting for Sheung Shui Slaughter House Boundary Walls along CHR & CHS Pipes Works Area	20 days	11月18日星期一	12月10日星期二	16.83 days	11月18日星期一	12月6日星期五	月18日星期一	11 月6日星期五	12		0 days		100%
969	C2AUU-1004	KD2A		(076)	Delay Delivery of DI pipes due to COVID-19	75 days	11月18日星期一	2月19日星期三	75 days	11月18日星期一	2月19日星期三	月18日星期一	11 月19日星期三	2		0 days		100%
970	CS2-0000	SW2			**External Underground Service, Utilities, Road/Drain (Section 2)**	616 days	3月24日星期三	4月24日星期一	1609 days	1月20日星期一	6月14日星期六	月20日星期一	1 NA			138 days		49%
971	**CS2-0000**				**Sewerage and utilities in Workfront A1**	**90 days**	**3月24日星期三**	**7月14日星期三**	**685 days**	**3月24日星期三**	**7月18日星期二**	**月24日星期三**	**3 NA**	**19**		**-184 days**		**87%**
972	**CS2-0100a**				**Workfront A1a: Construction of 7 nos. of process pipes (CHPS1&CHPS2 CH236-250, CHT, CHW, CHX, CHY, CHZ CH0-CH15)**	**90 days**	**3月24日星期三**	**7月14日星期三**	**178 days**	**3月24日星期三**	**10月28日星期四**	**月24日星期三**	**3 月28日星期四**	**10**		**0 days**		**100%**
973	CS2-0110a				Conduct underground utilities detection and setting out	7 days	3月24日星期三	3月31日星期三	7 days	3月24日星期三	3月31日星期三	月24日星期三	3 月31日星期三	3	974	0 days		100%
974	CS2-0120a				Expose and abandon existing electric cable & trial pits	20 days	4月1日星期四	4月27日星期二	20 days	4月1日星期四	4月27日星期二	月1日星期四	4 月27日星期二	4 973	975	0 days		100%
975	CS2-0130a				Installing sheetpiles and ELS works	20 days	4月28日星期三	5月22日星期六	20 days	4月28日星期三	5月22日星期六	月28日星期三	4 月22日星期六	5 974,1055	983,976	0 days		100%
976	CS2-0140a				Process Pipes laying works ; Fresh Water Supply Pipe Laying Works	0 days	NA	NA	7 days	5月24日星期一	5月31日星期一	月24日星期一	5 月31日星期一	5 987,975	978SS+2 days	0 days		100%
977	CS2-PMI-0446		206	446	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional Works for Construction of 7 nos. of Process Pipes in Portion B-9C	0 days	NA	NA	26 days	5月5日星期三	6月4日星期五	月5日星期三	5 月4日星期五	6		0 days		100%
978	CS2-0145a				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	6月17日星期四	6月24日星期四	月17日星期四	6 月24日星期四	6 976SS+2 days	979	0 days		100%
979	CS2-0150a				Inspection and connection works	3 days	6月17日星期四	6月19日星期六	3 days	6月17日星期四	6月19日星期六	月17日星期四	6 月19日星期六	6 978	980SS+2 days	0 days		100%
980	CS2-0160a				Backfilling and reinstatement works	20 days	6月21日星期一	7月14日星期三	33 days	9月1日星期三	10月11日星期一	月1日星期三	9 月11日星期一	10 979SS+2 days	981,57FF	0 days		100%
981	CS2-0170a				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	7月14日星期三	7月14日星期三	14 days	10月12日星期二	10月28日星期四	月12日星期二	10 月28日星期四	10 980		0 days		100%
982	**CS2-0100b**				**Workfront A1b: Construction of 7 nos. of process pipes (CHPS1&CHPS2 CH224-236, CHT, CHW, CHX, CHY, CHZ CH15-CH29), watermains**	**0 days**	**NA**	**NA**	**305 days**	**7月8日星期五**	**7月18日星期二**	**月8日星期五**	**7 NA**			**-184 days**		**75%**
983	CS2-NCE-0343		343		DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-A1) Uncharted and Unforeseen Concrete Surround of Master Water Meter Cabinet near Gate	0 days	NA	NA	10 days	7月8日星期五	7月19日星期二	月8日星期五	7 月19日星期二	7 975	984	0 days		100%
984	CS2-NCE-0333		333		DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-A1) Revise Details of Master Water Meter Cabinet	0 days	NA	NA	11 days	9月6日星期二	9月19日星期一	月6日星期二	9 月19日星期一	9 983	985	0 days		100%
985	CS2-NCE-0428A		428		DC/2018/07 - Notification of Compensation Event:- (Section 2 WF-A1&A2) Additional Works due to Site Condition and Revised Utility Trough Arrangement near Main Entrance (7 no. process pipes)	0 days	NA	NA	10 days	9月8日星期四	9月20日星期二	月8日星期四	9 月20日星期二	9 984	986	0 days		100%
986	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	5 days	9月21日星期三	9月26日星期一	月21日星期三	9 月26日星期一	9 985	987	0 days		100%
987	CS2-NCE-0425		425		DC/2018/07 - Notification of Compensation Event:- (Section 2 WF-A1) Additional Works due to the Unforeseen Concrete Surround near Main Entrance (7 nos. process pipes)	0 days	NA	NA	21 days	9月27日星期二	10月22日星期六	月27日星期二	9 月22日星期六	10 986	976	0 days		100%
988	CS2-0110b				Conduct underground utilities detection and setting out	0 days	NA	NA	5 days	9月21日星期三	9月26日星期一	月21日星期三	9 月26日星期一	9 999	989	0 days		100%
989	CS2-NCE-425				Additional Works due to Unforeseen Concrete Surround	0 days	NA	NA	21 days	9月27日星期二	10月22日星期六	月27日星期二	9 月22日星期六	10 988	990	0 days		100%
990	CS2-0120b				Expose and abandon existing electric cable & trial pits	0 days	NA	NA	10 days	10月24日星期一	11月3日星期四	月24日星期一	10 月3日星期四	11 989	991	0 days		100%
991	CS2-0130b				Installing sheetpiles and ELS works	0 days	NA	NA	10 days	11月4日星期五	11月15日星期二	月4日星期五	11 月15日星期二	11 990,1055	992	0 days		100%
992	CS2-0140b				Process Pipes laying works	0 days	NA	NA	7 days	11月16日星期三	11月23日星期三	月16日星期三	11 月23日星期三	11 991	993SS+2 days	0 days		100%
993	CS2-0145b				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	11月18日星期五	11月25日星期五	月18日星期五	11 月25日星期五	11 992SS+2 days	994	0 days		100%
994	CS2-0150b				Inspection and connection works	0 days	NA	NA	3 days	11月26日星期六	11月29日星期二	月26日星期六	11 月29日星期二	11 993		0 days		100%
995					Fresh Water Supply Pipe Laying Works	0 days	NA	NA	15 days	6月1日星期四	6月17日星期六	NA	NA		996	-205 days		0%
996	CS2-0160b				Backfilling and reinstatement works	0 days	NA	NA	10 days	6月19日星期一	6月30日星期五	NA	NA	995	997,57FF	-205 days		0%
997	CS2-0170b				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	14 days	7月3日星期一	7月18日星期二	NA	NA	996	57FF	-205 days		0%
998	**CS2-1000**	**SW2**			**Sewerage and utilities in Workfront A2**	**179 days**	**6月30日星期三**	**2月4日星期五**	**536 days**	**6月30日星期三**	**4月21日星期五**	**月30日星期三**	**6 NA**			**785 days**		**94%**
999	**CS2-1010**				**Workfront A2a : Construction of 2 nos. of DN250 DI sludge pipe (CHPS1, CHPS2 CH190-224), 2 nos. of DN350 DI sewage pipe (CHT CH29-62, CHY CH29-62) and 3 nos. of DN150 DI pipe (CHW, CHX, CHZ CH29-62)**	**0 days**	**NA**	**NA**	**197 days**	**3月4日星期五**	**11月1日星期二**	**月4日星期五**	**3 月1日星期二**	**11 1016**	**988**	**0 days**		**100%**
1000	CS2-1019a		313		Temporary Diversion of DN40, DN50 and DN80 irrigation pipe near Air Blower House	0 days	NA	NA	11 days	3月24日星期四	4月6日星期三	月24日星期四	3 月6日星期三	4	1001	0 days		100%
1001	CS2-1020				Conduct underground utilities detection and setting out	0 days	NA	NA	7 days	4月7日星期四	4月14日星期四	月7日星期四	4 月14日星期四	4 1000	1002	0 days		100%
1002	CS2-1030				Expose and abandon utilities detection and setting out & breaking of existing utility trough	0 days	NA	NA	15 days	3月4日星期五	3月21日星期一	月4日星期五	3 月21日星期一	3 1001	1003	0 days		100%
1003	CS2-1040				Installing sheetpiles and ELS works	0 days	NA	NA	40 days	5月7日星期六	6月24日星期五	月7日星期六	5 月24日星期五	6 1002	1004	0 days		100%
1004	CS2-NCE-0344		344		DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-A2) Additional Work for Utility Trough	0 days	NA	NA	20 days	6月24日星期五	7月18日星期一	月24日星期五	6 月18日星期一	7 1003	1005	0 days		100%
1005	CS2-1045		331		Additional Work of Temporary Support for Cable Duct Relocation near Air Blower No.2	0 days	NA	NA	7 days	6月25日星期六	7月4日星期一	月25日星期六	6 月4日星期一	7 1004	1006	0 days		100%
1006	CS2-1046				Utility Trough for 7 pipes	0 days	NA	NA	30 days	7月5日星期二	8月8日星期一	月5日星期二	7 月8日星期一	8 1005	1011FF,1007	0 days		100%
1007	CS2-PMI-0607		313	607	DC/2018/07 - Notification of Compensation Event:- Section 2 - Temporary Diversion of DN40, DN80 Irrigation Pipe near Air Blower House	0 days	NA	NA	76 days	8月2日星期二	11月1日星期二	月2日星期二	8 月1日星期二	11 1006	1008	0 days		100%
1008	CS2-PMI-0607		331	607	DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-A2) Additional Work of Temporary Support for Cable Duct Relocation near Air Blower No. 2	0 days	NA	NA	76 days	8月2日星期二	11月1日星期二	月2日星期二	8 月1日星期二	11 1007	1009	0 days		100%
1009	CS2-NCE-0428B		428		DC/2018/07 - Notification of Compensation Event:- (Section 2 WF-A1&A2) Additional Works due to Site Condition and Revised Utility Trough Arrangement near Main Entrance (7 no. process pipes)	0 days	NA	NA	10 days	9月8日星期四	9月20日星期二	月8日星期四	9 月20日星期二	9 1008	1010	0 days		100%
1010	CS2-1050				Process Pipes Laying works	0 days	NA	NA	14 days	8月9日星期二	8月24日星期三	月9日星期二	8 月24日星期三	8 1009	1012SS+2 days	0 days		100%
1011	CS2-NCE383		383		Unforeseen Concrete Structure	0 days	NA	NA	1 day	7月29日星期五	7月29日星期五	月29日星期五	7 月29日星期五	7 1006FF		0 days		100%
1012	CS2-1060				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	14 days	8月11日星期四	8月26日星期五	月11日星期四	8 月26日星期五	8 1010SS+2 days	1013FF	0 days		100%
1013	CS2-1070				Inspection and connection works	0 days	NA	NA	7 days	8月19日星期五	8月26日星期五	月19日星期五	8 月26日星期五	8 1012FF	1014	0 days		100%
1014	CS2-1080				Backfilling and reinstatement works including existing utility trough	0 days	NA	NA	20 days	8月27日星期六	9月20日星期二	月27日星期六	8 月20日星期二	9 1013	1015FF,57FF	0 days		100%
1015	CS2-1090				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	14 days	9月3日星期六	9月20日星期二	月3日星期六	9 月20日星期二	9 1014FF		0 days		100%
1016	**CS2-1100**	**SW2**			**Workfront A2b : Construction of 2 nos. of DN250 DI sludge pipe (CHPS1,CHPS2 CH157-190), 2 nos. of DN350 DI sewage pipe (CHT CH62-91, CHY CH62-91) and 3 nos. of DN150 DI pipe (CHW, CHX, CHZ CH62-91)**	**179 days**	**6月30日星期三**	**2月4日星期五**	**536 days**	**6月30日星期三**	**4月21日星期五**	**月30日星期三**	**6 NA**		**999**	**785 days**		**82%**
1017	CS2-PMI-0446		207	446	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional Works for Construction of 7 nos. of Process Pipes near Chemical Waste Store No. 1 and No. 2	0 days	NA	NA	34 days	6月30日星期三	8月9日星期一	月30日星期三	6 月9日星期一	8		0 days		100%
1018	CS2-1110				Conduct underground utilities detection and setting out	7 days	6月30日星期三	7月8日星期四	7 days	6月30日星期三	7月8日星期四	月30日星期三	6 月8日星期四	7 1046FF	1019	0 days		100%



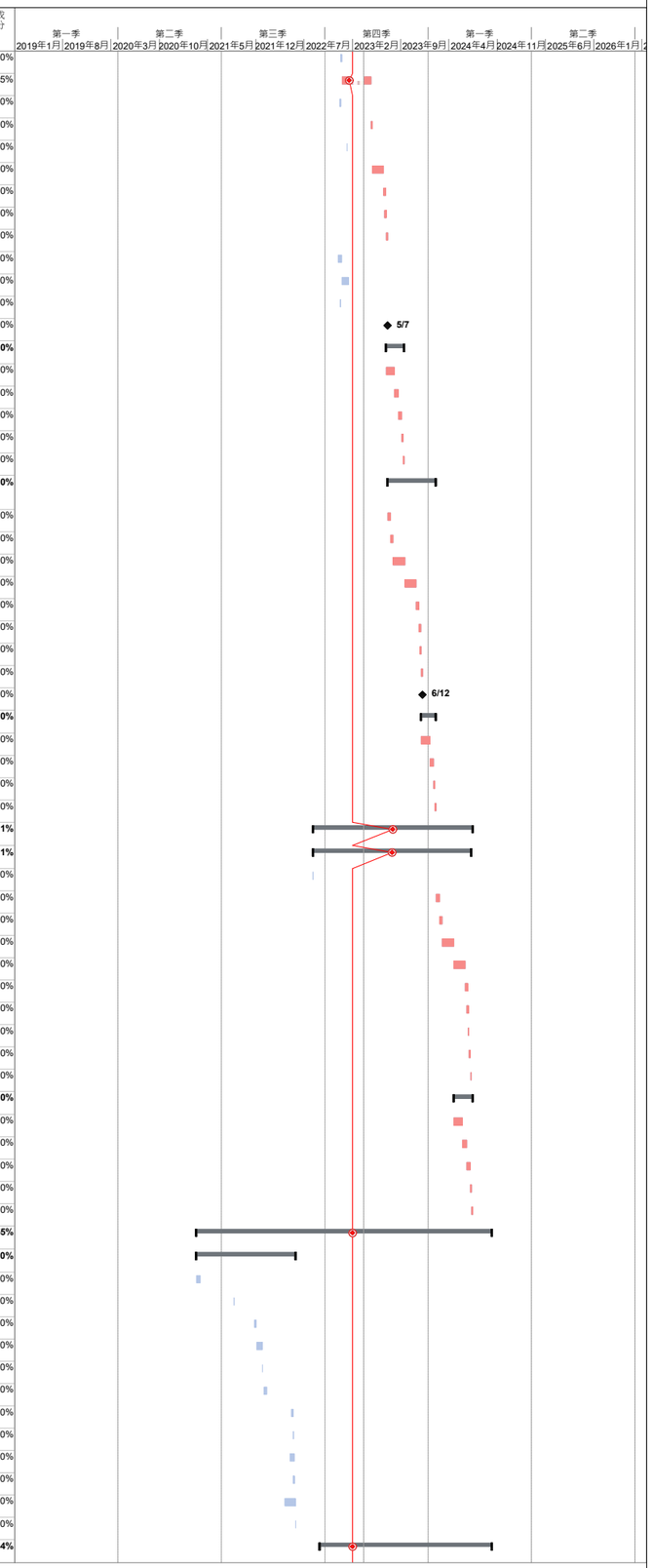
識別碼	Activity ID	Key Date	NCE/(EW)	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1019	CS2-1120				Expose and abandon existing electric cable & trial pits	20 days	7月9日星期五	7月31日星期六	20 days	7月9日星期五	7月31日星期六	月9日星期五7	月31日星期六7	1018	1020	0 days		100%
1020	CS2-1130				Installing sheetpiles and ELS works	90 days	8月2日星期一	11月17日星期三	90 days	8月2日星期一	11月17日星期三	月2日星期一8	月17日星期三11	1019,1055	1021	0 days		100%
1021	CS2-1140				Process Pipes Laying works	0 days	NA	NA	10 days	3月1日星期三	3月11日星期六	月1日星期三3	NA	1020	1022	-120 days		70%
1022	CS2-1145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	2 days	3月13日星期一	3月14日星期二	NA	NA	1021	1023	-120 days		0%
1023	CS2-1150				Inspection and connection works	7 days	12月11日星期六	12月18日星期六	2 days	3月15日星期三	3月16日星期四	NA	NA	1022	1024	-120 days		0%
1024	CS2-1160				Backfilling and reinstatement works	35 days	12月20日星期一	2月4日星期五	13 days	3月17日星期五	3月31日星期五	NA	NA	1023	1025,57FF	-120 days		0%
1025	CS2-1170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	2月4日星期五	2月4日星期五	14 days	4月1日星期六	4月21日星期五	NA	NA	1024		785 days		0%
1026	**CS2-2000**	**SW2**			**Sewerage and utilities in Workfront A3**	**54 days**	**12月13日星期一**	**2月19日星期六**	**883.25 days**	**6月2日星期三**	**5月27日星期一**	**月2日星期三6**	**NA**			**460.75 days**		**45%**
1027	**CS2-2050**				**Workfront A3a : Construction of 2 nos. of DN250 DI sludge pipe (CHPS1,CHPS2 CH146-157), 2 nos. of DN350 DI sewage pipe (CHT CH91-100, CHY CH91-100) and 3 nos. of DN150 DI pipe (CHW CH91-100, CHX&CHZ CH91-100), watermains and cable ductings**	**0 days**	**NA**	**NA**	**398 days**	**12月13日星期一**	**4月21日星期五**	**月13日星期一12**	**NA**			**785 days**		**40%**
1028	CS2-2051				Conduction underground utilities detection and setting out	2 days	12月13日星期一	12月14日星期二	2 days	12月13日星期一	12月14日星期二	月13日星期一12	月14日星期二12		1029	0 days		100%
1029	CS2-2052				Expose and abandon exsiting electric cable and trial pits	7 days	12月15日星期三	12月22日星期三	7 days	12月15日星期三	12月22日星期三	月15日星期三12	月22日星期三12	1028	1030	0 days		100%
1030	CS2-2053				Installing sheetpiles and ELS works	30 days	12月23日星期四	1月29日星期六	4 days	12月23日星期四	12月29日星期三	月23日星期四12	月29日星期三12	1029	1031	0 days		100%
1031	CS2-2054				Process Pipes Laying works	0 days	NA	NA	7 days	12月30日星期四	1月7日星期五	月30日星期四12	月7日星期五1	1030	1032	0 days		100%
1032	CS2-2056				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	1月8日星期六	1月15日星期六	月8日星期六1	月15日星期六1	1031	1033FF	0 days		100%
1033	CS2-2057				Inspection and connection works	2 days	2月11日星期五	2月12日星期六	2 days	1月14日星期五	1月15日星期六	月14日星期五1	月15日星期六1	1032FF		0 days		100%
1034					Watermains (Fire Service Water and relocation of existing Fire Hydrant)	0 days	NA	NA	13 days	3月13日星期一	3月27日星期一	NA	NA		1035SS-14 days	0 days		0%
1035					Cable Ductings (LVCP19A-LVCP19B)	0 days	NA	NA	13 days	3月13日星期一	3月27日星期一	NA	NA	1034SS-14 days	1036	0 days		0%
1036	CS2-2058				Backfilling and reinstatement works	6 days	2月14日星期一	2月19日星期六	4 days	3月28日星期二	3月31日星期五	月28日星期二3	NA	1035	57FF,1037	-120 days		0%
1037	CS2-2059				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	2月19日星期六	2月19日星期六	14 days	4月1日星期六	4月21日星期五	NA	NA	1036		785 days		0%
1038	**CS2-2100**	**SW2**			**Workfront A3b: Construction of 2 nos. of DN250 DI sludge pipe (CHPS1, CHPS2 CH133-146), 2 nos. of DN350 DI sewage pipe (CHT CH100-114, CHY CH100-114) and 3 nos. of DN150 DI pipe (CHW CH100-114, CHX&CHZ CH100-114); Watermains**	**54 days**	**12月13日星期一**	**2月19日星期六**	**532 days**	**6月2日星期三**	**3月16日星期四**	**月2日星期三6**	**NA**			**812 days**		**62%**
1039	CS2-2110				Conduct underground utilities detection and setting out	0 days	NA	NA	2 days	6月2日星期三	6月3日星期四	月2日星期三6	月3日星期四6		1040	0 days		100%
1040	CS2-2120				Expose and abandon existing electric cable & trial pits	0 days	NA	NA	7 days	6月4日星期五	6月11日星期五	月4日星期五6	月11日星期五6	1039	1041	0 days		100%
1041	CS2-2130				Installing sheetpiles and ELS works	0 days	NA	NA	30 days	6月12日星期六	7月19日星期一	月12日星期六6	月19日星期一7	1040,1055	1042	0 days		100%
1042	CS2-2135				Process Pipes Laying works	0 days	NA	NA	7 days	7月20日星期二	7月27日星期二	月20日星期二7	月27日星期二7	1041	1044SS+2 days,1043	0 days		100%
1043	CS2-2142				Watermains (Flushing Water Pipe; Fresh Water Supply; Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	14 days	2月6日星期一	2月21日星期二	NA	NA	1042,197	1046	-93 days		0%
1044	CS2-2145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	8月1日星期日	8月9日星期一	月1日星期日8	月9日星期一8	1042SS+2 days	1045FF	0 days		100%
1045	CS2-2150				Inspection and connection works	0 days	NA	NA	2 days	8月10日星期二	8月11日星期三	月10日星期二8	月11日星期三8	1044FF		0 days		100%
1046	CS2-2160				Backfilling and reinstatement works	0 days	NA	NA	6 days	2月21日星期二	2月28日星期二	NA	NA	1043	1018FF,57FF,1047	-93 days		0%
1047	CS2-2170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	14 days	3月1日星期三	3月16日星期四	NA	NA	1046		812 days		0%
1048	**CS2-2200**				**Construction of Cable Duct**	**0 days**	**NA**	**NA**	**499.25 days**	**9月16日星期五**	**5月27日星期一**	**月16日星期五9**	**NA**			**-446.25 ...**		**38%**
1049	CS2-NCE-0423A		423		DC/2018/07 - Notification of Compensation Event:- (Section 2&3 WF-D1, A3&C1) Additional Manhole MHD14B due to the Revised Drainage Arrangement from MHD14 to MHD15	0 days	NA	NA	53 days	9月16日星期五	11月18日星期五	月16日星期五9	月18日星期五11			0 days		100%
1050	CS2-2210b				Cable Duct Laying Works (HV uPVC 2x3xDN150 Cable Ducts & LV 3X3xDN150 Cable Ducts) ; with Cable Draw Pit Construction (LVCP19B, LVCP10A, HVCP11, HVCP10A)	0 days	NA	NA	40 days	2月3日星期六	3月25日星期一	NA	NA	1185,205FF,1170	1051	-458.25 days		0%
1051	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	3月25日星期一	4月16日星期二	NA	NA	1050	1052	-458.25 ...		0%
1052	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	4月16日星期二	5月2日星期四	NA	NA	1051	1053	-458.25 ...		0%
1053	CS2-2220n				Inspection and connection works	0 days	NA	NA	10 days	5月2日星期四	5月14日星期二	NA	NA	1052	1054	-458.25 ...		0%
1054	CS2-2230b				Backfilling and reinstatement works	0 days	NA	NA	10 days	5月14日星期二	5月27日星期一	NA	NA	1053	57FF	-458.25 ...		0%
1055	CS2-2500				**Sewerage and utilities in Workfront A4**	0 days	**NA**	**NA**	208 days	1月20日星期一	9月30日星期三	月20日星期一1	月30日星期三9	223SS	1041,1020,975,54FF,991	0 days		100%
1056	**CS2-3000a**	**SW2**			**Sewerage and utilities in Workfront A5a**	**86 days**	**2月4日星期五**	**5月21日星期六**	**383 days**	**3月18日星期五**	**7月6日星期四**	**月18日星期五3**	**NA**		**1745**	**-83 days**		**22%**
1057	CS2-3010		299		Additional Trial Pit for DN825 clash with Existing Retaining Wall and Existing leakage collection system	0 days	NA	NA	12 days	3月18日星期五	3月31日星期四	月18日星期五3	月31日星期四3			0 days		100%
1058	**CS2-3100a**	**SW2**			**Construction of DN825 concrete pipe (CHU CH9.81-67.72) and manhole MHS01-MHS02**	**86 days**	**2月4日星期五**	**5月21日星期六**	**383 days**	**3月18日星期五**	**7月6日星期四**	**月18日星期五3**	**NA**			**-83 days**		**19%**
1059	CS2-PMI-0558		266	558	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional inspection pits near flume channel and AR3 access road for identification of pipeline CHU	0 days	NA	NA	29 days	3月18日星期五	4月25日星期一	月18日星期五3	月25日星期一4			0 days		100%
1060	CS2-PMI-0598		299	598	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional trial pits for DN 825 concrete pipe clash with existing retaining wall and existing leakage collection system	0 days	NA	NA	12 days	3月18日星期五	3月31日星期四	月18日星期五3	月31日星期四3			0 days		100%
1061	CS2-PMI-0749		404	749	DC/2018/07 - Notification of Compensation Event:- (Section 2 WF-A5) Additional Works due to the Possible Conflict with the Existing Cable Drawpit for the Proposed Jacking Pit Location of CHU	0 days	NA	NA	11 days	9月1日星期四	9月14日星期三	月1日星期四9	月14日星期三9			0 days		100%
1062	CS2-PMI-0621			621	Change of Construction Method at Process Pipe CHU between Manhole no. MHS01 to MHS03	0 days	NA	NA	180 days	8月15日星期一	3月22日星期三	月15日星期一8	NA			-21 days		0%
1063	CS2-NCE-404a		404		Additional Underground Works due to possible conflict : inspection for existing cable draw pit	0 days	NA	NA	7 days	8月4日星期四	8月11日星期四	月4日星期四8	月11日星期四8			0 days		100%
1064	CS2-NCE-404b		404		Additional Underground Works due to possible conflict : Trial Pit	0 days	NA	NA	11 days	9月1日星期四	9月14日星期三	月1日星期四9	月14日星期三9			0 days		100%
1065	CS2-3110a				Conduct underground utilities detection and setting out	3 days	2月4日星期五	2月7日星期一	3 days	1月26日星期四	1月28日星期六	月26日星期四1	月28日星期六1	1115	1066	0 days		100%
1066	CS2-3120a				Expose and abandon existing electric cable & trial pits	10 days	2月8日星期二	2月18日星期五	11 days	1月30日星期一	2月10日星期五	月30日星期一1	NA	1065	1067	13 days		0%
1067	CS2-NCE-455		455		Additional Hand Trimming Work due to Site Condition near Flume Channel	0 days	NA	NA	1 day	2月27日星期一	2月27日星期一	月27日星期一2	月27日星期一2	1066	1068	0 days		100%
1068	CS2-3130a				Pipe jacking Works (jacking pit and receiving pit preparation and construction, setting up for pipe jacking works)	45 days	2月19日星期六	4月13日星期三	45 days	2月28日星期二	4月25日星期二	NA	NA	1067	1069	-191 days		0%
1069	CS2-3135a				Process Pipes Laying Works	0 days	NA	NA	25 days	4月26日星期三	5月25日星期四	NA	NA	1068	1071FF+2 days,1070	-191 days		0%
1070	CS2-PMI-514			514	Revised Utilities Arrangement near Inlet Works No.1 and the Elevated Road	0 days	NA	NA	20 days	5月27日星期六	6月19日星期一	NA	NA	1069	1071	-191 days		0%
1071	CS2-3145a				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	3 days	6月20日星期二	6月23日星期五	NA	NA	1069FF+2 days,1070	1072FF+2 days	-191 days		0%
1072	CS2-3150a				Inspection and connection works	3 days	5月6日星期五	5月10日星期二	3 days	6月23日星期五	6月26日星期一	NA	NA	1071FF+2 days	1073FF+4 days	-191 days		0%
1073	CS2-3160a				Backfilling and reinstatement works	10 days	5月11日星期三	5月21日星期六	10 days	6月19日星期一	6月30日星期五	NA	NA	1072FF+4 days	57FF,1074FF+4 days	-191 days		0%
1074	CS2-3170a				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	5月21日星期六	5月21日星期六	14 days	6月19日星期一	7月6日星期四	NA	NA	1073FF+4 days		-104 days		0%
1075	**CS2-3000b**	**SW2**			**Sewerage and utilities in Workfront A5b**	**86 days**	**2月4日星期五**	**5月21日星期六**	**45 days**	**12月3日星期六**	**1月31日星期二**	**月3日星期六12**	**月31日星期二1**		**1745**	**0 days**		**100%**
1076	**CS2-3200b**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**45 days**	**12月3日星期六**	**1月31日星期二**	**月3日星期六12**	**月31日星期二1**			**0 days**		**100%**
1077	CS2-3210b				Cable Duct Laying Works (HV 2x3xDN150 uPVC Cable Ducts,CLP 2x3x200 uPVC + 2xDN100 Cable Duct, LV 3x3xDN150 uPVC Cable Duct, 14+2nos. CLP duct to bri) ; with Cable Draw Pit Construction (CLPCP14, CLPCP13, CLPCP12,CLPCP11; HVCP8,HVCP7,HVCP6, LVCP34,LVCP33)	0 days	NA	NA	20 days	12月3日星期六	12月28日星期三	月3日星期六12	月28日星期三12	1115	1078	0 days		100%
1078	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	12月29日星期四	1月16日星期一	月29日星期四12	月16日星期一1	1077	1079	0 days		100%
1079	CS2-3220b				Inspection and connection works	0 days	NA	NA	5 days	1月17日星期二	1月21日星期六	月17日星期二1	月21日星期六1	1078	1080	0 days		100%
1080	CS2-3230b				Backfilling and reinstatement works	0 days	NA	NA	5 days	1月26日星期四	1月31日星期二	月26日星期四1	月31日星期二1	1079	57FF	0 days		100%
1081	**CS2-3300**	**SW2**			**Sewerage and utilities in Workfront A6**	**0 days**	**NA**	**NA**	**721.25 days**	**7月23日星期六**	**12月24日星期二**	**月23日星期六7**	**NA**			**-342.25 ...**		**36%**
1082	**CS2-3301**				**Sewerage and utilities in Workfront A6a (Horizontal Portion)**	**0 days**	**NA**	**NA**	**660.25 days**	**10月6日星期四**	**12月24日星期二**	**月6日星期四10**	**NA**			**-342.25 ...**		**32%**
1083	**CS2-3310**	**SW2**			**Construction of CHPS1 CH274.233 - 355.037 ; CHPSW8 CH0-3.640**	**0 days**	**NA**	**NA**	**164 days**	**6月11日星期二**	**12月24日星期二**	**NA**	**NA**	**1102**		**-630.25 ...**		**0%**
1084	CS2-3310a				Conduct underground utilities detection and setting out	0 days	NA	NA	10 days	6月11日星期二	6月22日星期六	NA	NA		1085FS-2 days	-630.25 ...		0%



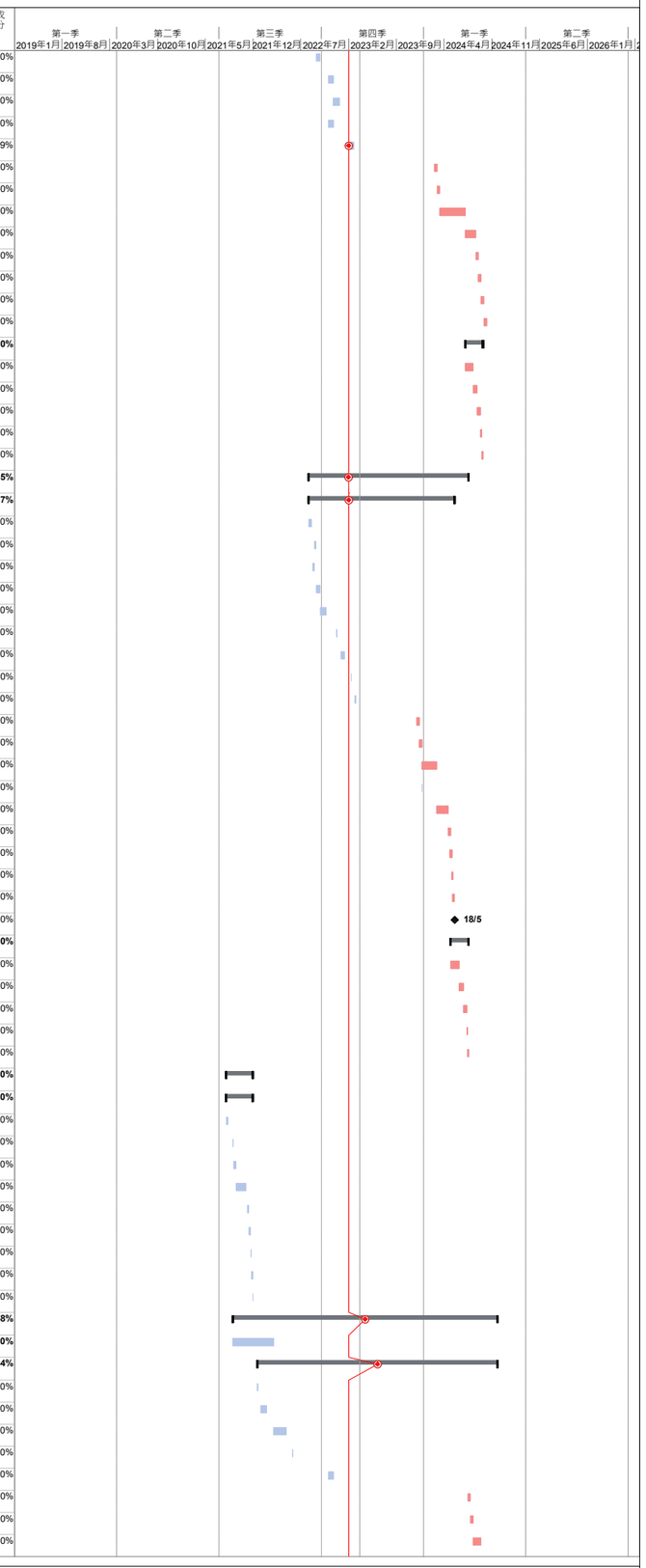
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1085	CS2-3320a				Expose and abandon existing electric cable & trial pits	0 days	NA	NA	10 days	6月20日星期四	7月3日星期三	NA	NA	1084FS-2 days	1086FS-2 days	-630.25 ...		0%
1086	CS2-3330a				Installing sheetpiles and ELS works	0 days	NA	NA	90 days	6月29日星期六	10月17日星期四	NA	NA	1085FS-2 days	1087FS-2 days	-630.25 ...		0%
1087	CS2-3335a				Process Pipes Laying Works; Fire Service Water; Street Fire Hydrant Water	0 days	NA	NA	40 days	10月15日星期二	11月30日星期六	NA	NA	1086FS-2 days	1088	-630.25 ...		0%
1088	CS2-3345a				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	11月30日星期六	12月12日星期四	NA	NA	1087	1089FF+2 days	-630.25 ...		0%
1089	CS2-3350a				Inspection and connection works	0 days	NA	NA	3 days	12月11日星期三	12月14日星期六	NA	NA	1088FF+2 days	1090FF+4 days	-630.25 ...		0%
1090	CS2-3360a				Backfilling and reinstatement works	0 days	NA	NA	10 days	12月7日星期六	12月19日星期四	NA	NA	1089FF+4 days	57FF,1091FF+4 days	-630.25 ...		0%
1091	CS2-3370a				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	14 days	12月7日星期六	12月24日星期二	NA	NA	1090FF+4 days	1752	-342.25 ...		0%
1092	**CS2-3400a**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**89 days**	**10月6日星期四**	**1月20日星期五**	**月6日星期四10**	**月20日星期五1**			**0 days**		**100%**
1093	CS2-3410a				Cable Duct Laying Works (HV 2x4xDN150 uPVC Cable Ducts,CLP 2x3x200 uPVC+ 2xDN100 Cable Duct, LV 3x4xDN150 Cable Ducts) ; with Cable Draw Pit Construction (CLPCP6, LVCP15,LVCP15A)	0 days	NA	NA	70 days	10月6日星期四	12月28日星期三	月6日星期四10	月28日星期三12	1109SS+20 days	1094	0 days		100%
1094	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	12月29日星期四	1月13日星期五	月29日星期四12	月13日星期五1	1093	1095	0 days		100%
1095	CS2-3420a				Inspection and connection works	0 days	NA	NA	3 days	1月14日星期六	1月17日星期二	月14日星期六1	月17日星期二1	1094	1096	0 days		100%
1096	CS2-3430a				Backfilling and reinstatement works	0 days	NA	NA	3 days	1月18日星期三	1月20日星期五	月18日星期三1	月20日星期五1	1095	57FF	0 days		100%
1097	**CS2-3301**				**Sewerage and utilities in Workfront A6b (Vertical Portion)**	**0 days**	**NA**	**NA**	**606.25 days**	**7月23日星期六**	**8月8日星期四**	**月23日星期六7**	**NA**			**-452.25 ...**		**40%**
1098	**CS2-3310**				**Construction of CHC CH0-15.383, CHD CH0-15.844, CHU CH 67.72-103.223 and Manhole OF1, OF2**	**0 days**	**NA**	**NA**	**560.25 days**	**9月16日星期五**	**8月8日星期四**	**月16日星期五9**	**NA**	**1160,1179**		**-519.25 ...**		**9%**
1099	CS2-3310b		418		Additional Demolition and Trimming Works for Existing Underground Utilities at Jacking Pit of CHU	0 days	NA	NA	14 days	9月16日星期五	10月3日星期一	月16日星期五9	月3日星期一10		1102	0 days		100%
1100	CS2-3320b				Conduct underground utilities detection and setting out	0 days	NA	NA	3 days	9月26日星期一	9月28日星期三	月26日星期一9	月28日星期三9			0 days		100%
1101	CS2-3330b				Expose and abandon existing electric cable & trial pits	0 days	NA	NA	10 days	2月3日星期六	2月19日星期一	NA	NA	1185,1170	1102	-630.25 ...		0%
1102	CS2-3335b				Installing sheetpiles and ELS works	0 days	NA	NA	90 days	2月19日星期一	6月11日星期二	NA	NA	1101,1099	1103,1083	-630.25 ...		0%
1103	CS2-3345b				Process Pipes Laying Works; Fire Service Water; Street Fire Hydrant Water	0 days	NA	NA	40 days	6月11日星期二	7月29日星期一	NA	NA	1102	1104FF+3 days	-519.25 ...		0%
1104	CS2-3350b				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	7月20日星期六	8月1日星期四	NA	NA	1103FF+3 days	1105FF+3 days	-519.25 ...		0%
1105	CS2-3360b				Inspection and connection works	0 days	NA	NA	3 days	8月1日星期四	8月5日星期一	NA	NA	1104FF+3 days	1106FF+3 days	-519.25 ...		0%
1106	CS2-3370b				Backfilling and reinstatement works	0 days	NA	NA	10 days	7月27日星期六	8月8日星期四	NA	NA	1105FF+3 days	1107FF	-519.25 ...		0%
1107	CS2-3380b				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	0 days	8月8日星期四	8月8日星期四	NA	NA	1106FF	57FF	-519.25 ...		0%
1108	**CS2-3400b**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**154 days**	**7月23日星期六**	**1月28日星期六**	**月23日星期六7**	**月28日星期六1**			**0 days**		**100%**
1109	CS2-3410b				Cable Duct Laying Works (HV 2x3xDN150 uPVC Cable Ducts, CLP 2x4x200 + 2xDN100 Cable Duct, LV 2x2xDN150) ; with Cable Draw Pit Construction (HVCP5A, HVCP5, HVCP4, CLPCP11, CLPCP10, CLPCP9, CLPCP8, CLPCP7, LVCP32, LVCP31, LVCP15B)	0 days	NA	NA	24 days	9月9日星期五	10月10日星期一	月9日星期五9	月10日星期一10	1112FS+30 days	1114,1111FF,1113,1093SS+20 days,1110FF	0 days		100%
1110	CS2-NCE462		462		Additional Cutting Works due to blockage of Existing Sheet Pile	0 days	NA	NA	5 days	1月5日星期四	1月10日星期二	月5日星期四1	月10日星期二1	1109FF		0 days		100%
1111	CS2-NCE-438		433		Cable Pit Cover Issue	0 days	NA	NA	30 days	10月18日星期二	11月21日星期一	月18日星期二10	月21日星期一11	1109FF	1114	0 days		100%
1112	CS2-3420b		405		Additional Trial Pit Excavation and Backfillling	0 days	NA	NA	11 days	7月23日星期六	8月4日星期四	月23日星期六7	月4日星期四8		1109FS+30 days	0 days		100%
1113	CS2-3430b		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	1月11日星期三	1月28日星期六	月11日星期三1	月28日星期六1	1109		0 days		100%
1114	CS2-3440b				Inspection and connection works	0 days	NA	NA	5 days	1月11日星期三	1月16日星期一	月11日星期三1	月16日星期一1	1109,1111	1115	0 days		100%
1115	CS2-3450b				Backfilling and reinstatement works	0 days	NA	NA	5 days	1月17日星期二	1月21日星期六	月17日星期二1	月21日星期六1	1114	57FF,1065,1077	0 days		100%
1116	**CS2-4000**	**SW2**			**Sewerage and utilities in Workfront B1**	**49 days**	**9月1日星期三**	**10月30日星期六**	**928.25 days**	**8月4日星期三**	**9月20日星期五**	**月4日星期三8**	**NA**			**363.75 ...**		**26%**
1117	**CS2-4010**				**Workfront B1a : Construction of 2 nos. of DN350 DI sewage pipe (CHT, CHY CH189-219) and manhole MHSS1 and discharge chamber**	**49 days**	**9月1日星期三**	**10月30日星期六**	**145 days**	**8月4日星期三**	**1月26日星期三**	**月4日星期三8**	**月26日星期三1**			**0 days**		**100%**
1118	CS2-4020		254		Diversion of existing wash wash water pipe	0 days	NA	NA	3 days	8月4日星期三	8月6日星期五	月4日星期三8	月6日星期五8			0 days		100%
1119	CS2-4030				Conduct underground utilities detection and setting out	2 days	9月1日星期三	9月2日星期四	2 days	9月25日星期六	9月27日星期一	月25日星期六9	月27日星期一9			0 days		100%
1120	CS2-4040				Expose and abandon existing electric cable & trial pits	7 days	9月3日星期五	9月10日星期五	3 days	9月28日星期二	9月30日星期四	月28日星期二9	月30日星期四9		1121	0 days		100%
1121	CS2-PMI594			594	Diversion of Existing Water Main and Fire Hydrant	0 days	NA	NA	7 days	10月11日星期一	10月19日星期二	月11日星期一10	月19日星期二10	1120	1123,1122	0 days		100%
1122	CS2-PMI-0594		254	594	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional Pipe Diversion Works for Pipe Laying (i.e. CHT & CHY) near Flume Channel in Portion B-9	0 days	NA	NA	6 days	10月11日星期一	10月18日星期一	月11日星期一10	月18日星期一10	1127,1121	1140	0 days		100%
1123	CS2-4050				Installing sheetpiles and ELS works	20 days	9月11日星期六	10月6日星期三	20 days	10月2日星期六	10月26日星期二	月2日星期六10	月26日星期二10	1121	1124	0 days		100%
1124	CS2-4055				Process Pipes Laying Works	0 days	NA	NA	6 days	12月16日星期四	12月22日星期三	月16日星期四12	月22日星期三12	1123	1125	0 days		100%
1125	CS2-4070				Pipe testing (Pressure Test)	0 days	NA	NA	1 day	12月31日星期五	12月31日星期五	月31日星期五12	月31日星期五12	1124	1126	0 days		100%
1126	CS2-4080				Inspection and connection works	3 days	10月20日星期三	10月22日星期五	4 days	1月3日星期一	1月6日星期四	月3日星期一1	月6日星期四1	1125	1127	0 days		100%
1127	CS2-4090				Backfilling and reinstatement works	7 days	10月23日星期六	10月30日星期六	14 days	1月7日星期五	1月22日星期六	月7日星期五1	月22日星期六1	1126	57FF,1122	0 days		100%
1128	CS2-4095				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	3 days	1月24日星期一	1月26日星期三	月24日星期一1	月26日星期三1	1140	57FF	0 days		100%
1129	**CS2-4100**	**SW2**			**Workfront B1b: DN600 concrete pipe (CHU CH0-9.81)**	**0 days**	**NA**	**NA**	**122 days**	**2月3日星期六**	**7月8日星期一**	**NA**	**NA**	**1145,1171**		**-555.25 ...**		**0%**
1130	CS2-4110				Conduct underground utilities detection and setting out	0 days	NA	NA	10 days	2月3日星期六	2月19日星期一	NA	NA		1131	-555.25 ...		0%
1131	CS2-4120				Expose and abandon existing electric cable & trial pits	0 days	NA	NA	10 days	2月19日星期一	3月1日星期五	NA	NA	1130	1132	-555.25 ...		0%
1132	CS2-4130				Installing sheetpiles and ELS works	0 days	NA	NA	50 days	3月1日星期五	5月4日星期六	NA	NA	1131	1133	-555.25 ...		0%
1133	CS2-4135				Process Pipes Laying Works	0 days	NA	NA	40 days	5月4日星期六	6月22日星期六	NA	NA	1132	1134	-555.25 ...		0%
1134	CS2-4145				Pipe testing (Pressure Test)	0 days	NA	NA	5 days	6月22日星期六	6月28日星期五	NA	NA	1133	1135FF+2 days	-555.25 ...		0%
1135	CS2-4150				Inspection and connection works	0 days	NA	NA	10 days	6月19日星期三	7月2日星期二	NA	NA	1134FF+2 days	1136FF+4 days	-555.25 ...		0%
1136	CS2-4160				Backfilling and reinstatement works	0 days	NA	NA	10 days	6月24日星期一	7月6日星期六	NA	NA	1135FF+4 days	57FF,1139,1137	-555.25 ...		0%
1137	CS2-4170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	1 day	7月6日星期六	7月8日星期一	NA	NA	1136		426.75 ...		0%
1138	**CS2-4200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**64 days**	**7月6日星期六**	**9月20日星期五**	**NA**	**NA**			**-555.25 ...**		**0%**
1139	CS2-4210				Cable Duct Laying Works (HV 2x3xDN150 uPVC Cable Ducts) ; with Cable Draw Pit Construction (HVCP9)	0 days	NA	NA	30 days	7月6日星期六	8月10日星期六	NA	NA	1136,205FF	1140	-555.25 ...		0%
1140	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	8月10日星期六	8月28日星期三	NA	NA	1122,1139	1128,1141	-555.25 ...		0%
1141	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	8月28日星期三	9月12日星期四	NA	NA	1140	1142	-555.25 ...		0%
1142	CS2-4220				Inspection and connection works	0 days	NA	NA	5 days	9月12日星期四	9月19日星期四	NA	NA	1141	1143	-555.25 ...		0%
1143	CS2-4230				Backfilling and reinstatement works	0 days	NA	NA	1 day	9月19日星期四	9月20日星期五	NA	NA	1142	57FF	-555.25 ...		0%
1144	**CS2-5000**	**SW2**			**Sewerage and utilities in Workfront C1**	**152 days**	**7月2日星期六**	**12月31日星期六**	**484.25 days**	**6月21日星期二**	**2月3日星期六**	**月21日星期二6**	**NA**		**1759**	**-236 days**		**31%**
1145	**CS2-5100**	**SW2**			**Workfront C1a: Construction of 2 nos. of DN250 DI sludge pipe (CHPS1,CHPS2 CH50-133), 2 nos. of DN350 DI sewage pipe (CHT&CHY CH114-189) and 3 nos. of DN150 DI pipe (CHW CH114-140, CHX&CHZ CH114-140), MHFB64B-MHFB64C**	**152 days**	**7月2日星期六**	**12月31日星期六**	**370.25 days**	**6月21日星期二**	**9月16日星期六**	**月21日星期二6**	**NA**	**1304**	**1129**	**-122 days**		**46%**
1146	CS2-NCE-0375		375		DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-C1) Replacement of Grade 200 Rockfill for 7 nos. Process Pipe near Primary Sedimentation Tank No. 8	0 days	NA	NA	23 days	6月21日星期二	7月18日星期一	月21日星期二6	月18日星期一7		1147	0 days		100%
1147	CS2-PMI-0486		214	486	DC/2018/07 - Notification of Compensation Event:- Section 1, KD1D - Additional cleansing works of cable drawpit due to seepage of sewage in the vicinity of PST no. 1 and 2	0 days	NA	NA	12 days	7月6日星期三	7月19日星期二	月6日星期三7	月19日星期二7	1146	1148	0 days		100%
1148	CS2-NCE-0371		371		DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-C1) Utility Support due to Unknown Water Leadage in 7nos. Process Pipe Trench near PST 8 and Existing DN1350 pipe	0 days	NA	NA	38 days	7月11日星期一	8月23日星期二	月11日星期一7	月23日星期二8	1147	1149	0 days		100%
1149	CS2-NCE-0423B		423		DC/2018/07 - Notification of Compensation Event:- (Section 2&3 WF-D1, A3&C1) Additional Manhole MHD14B due to the Revised Drainage Arrangement from MHD14 to MHD15	0 days	NA	NA	21 days	9月26日星期一	10月21日星期五	月26日星期一9	月21日星期五10	1148	1163	0 days		100%
1150	CS2-5110				Conduct underground utilities detection and setting out	5 days	7月2日星期六	7月7日星期四	5 days	12月5日星期一	12月9日星期五	月5日星期一12	月9日星期五12		1151,1152	0 days		100%
1151	CS2-NCE465		465		Water Leakage from Side Stream Facilities Contractor	0 days	NA	NA	3 days	12月10日星期六	12月13日星期二	月10日星期六12	月13日星期二12	1150		0 days		100%



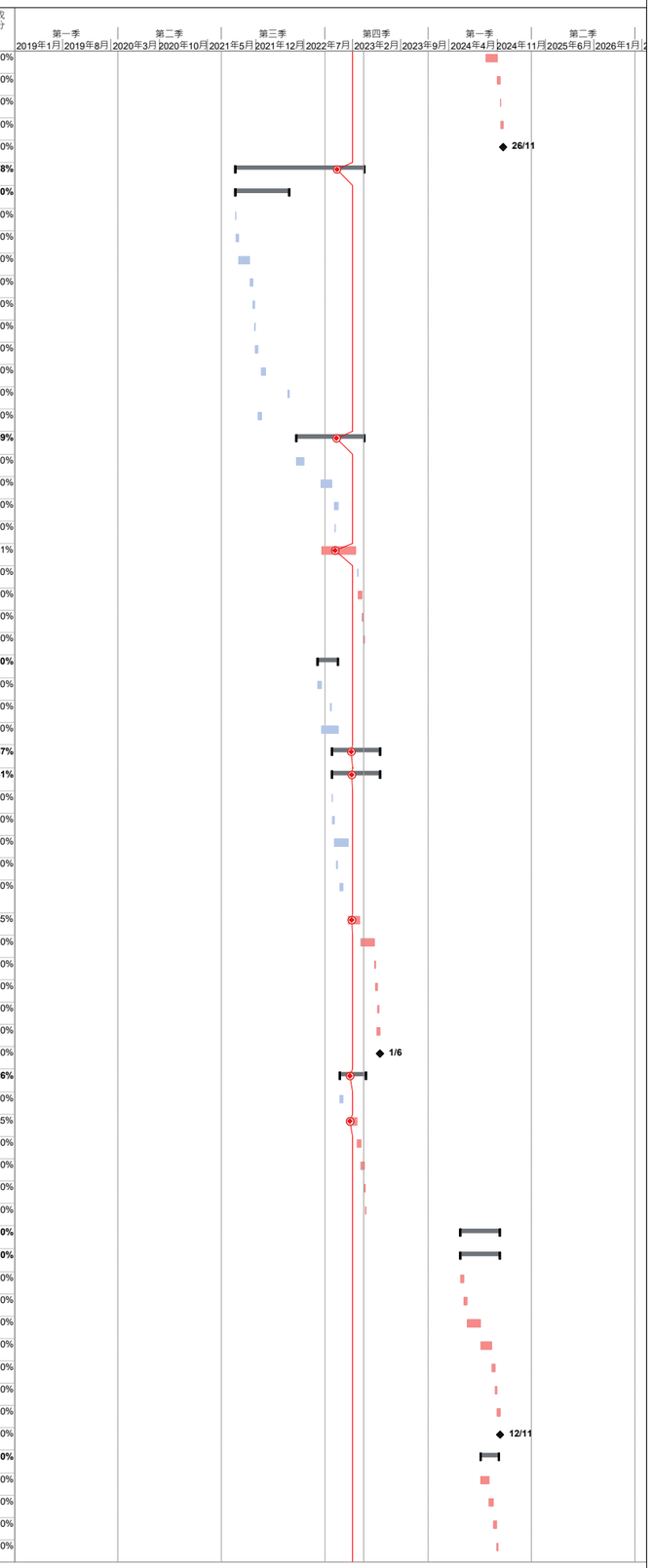
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1152	CS2-5120				Expose and abandon existing electric cable & trial pits	12 days	7月8日星期五	7月21日星期四	5 days	12月10日星期六	12月15日星期四	月10日星期六12	月15日星期四12	1150	1153	0 days		100%
1153	CS2-5130				Installing sheetpiles and ELS works	90 days	7月22日星期五	11月7日星期一	99.25 days	12月16日星期五	4月22日星期六	月16日星期五12	NA	1152	1155	-756.25 ...		25%
1154	CS2-PMI-486b		214	486	Facilitate the cleansing and plugging work for existing cable draw pit for nearby PST Sludge Drawoff Chamber No.1	0 days	NA	NA	6 days	12月5日星期一	12月10日星期六	月5日星期一12	月10日星期六12			0 days		100%
1155	CS2-5135				Process Pipes Laying Works	0 days	NA	NA	5 days	4月22日星期六	4月28日星期五	NA	NA	1153	1156,1157	-756.25 ...		0%
1156	CS2-NCE-0374		374		DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-C1) Revised Connection Point for Pipes CHW, CHZ and CHX	0 days	NA	NA	1 day	1月6日星期五	1月6日星期五	月6日星期五1	月6日星期五1	1155		0 days		100%
1157	CS2-5142				Watermains (Flushing Water Pipe; Fresh Water Supply; Potable Water; Fire Service Water; Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	40 days	4月28日星期五	6月16日星期五	NA	NA	1155	1158	-756.25 days		0%
1158	CS2-5145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	6月16日星期五	6月26日星期一	NA	NA	1157	1159FF+2 days	-756.25 ...		0%
1159	CS2-5150				Inspection and connection works	5 days	12月1日星期四	12月6日星期二	5 days	6月21日星期三	6月28日星期三	NA	NA	1158FF+2 days	1160,1239	-756.25 ...		0%
1160	CS2-5160				Backfilling and reinstatement works	20 days	12月7日星期三	12月31日星期六	5 days	6月28日星期三	7月5日星期三	NA	NA	1159,1161FF,1162	57FF,1098,1164,1166SS,1171	-756.25 ...		0%
1161	CS2-NCE-406a		406		Unexpected Flooding in the Trench	0 days	NA	NA	14 days	11月29日星期二	12月14日星期三	月29日星期二11	月14日星期三12		1160FF,1162	0 days		100%
1162	CS2-NCE-423				Additional Manhole MHD14B due to Revised Drainage	0 days	NA	NA	21 days	12月15日星期四	1月11日星期三	月15日星期四12	月11日星期三1	1161	1160	0 days		100%
1163	CS2-NCE-0465A		465		DC/2018/07 - Notification of Compensation Event:- (Section 2 WF D1&C1) Water Leakage from Side Stream Facilities Contractor (DE/2018/03)	0 days	NA	NA	3 days	12月7日星期三	12月9日星期五	月7日星期三12	月9日星期五12	1149		0 days		100%
1164	CS2-5170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	12月31日星期六	12月31日星期六	0 days	7月5日星期三	7月5日星期三	NA	NA	1160		-378.25 ...		0%
1165	**CS2-5200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**68 days**	**6月28日星期三**	**9月16日星期六**	**NA**	**NA**			**-516.25 ...**		**0%**
1166	CS2-5210				Cable Duct Laying Works (HV 2x3xDN150 uPVC Cable Ducts ; LV Cable 4x3xDN150 uPVC Cable ducts) ; with Cable Draw Pit Construction (HVCP10, HVCP9A, LVCP19, LVCP18A, LVCP18)	0 days	NA	NA	30 days	6月28日星期三	8月3日星期四	NA	NA	1160SS	1167	-516.25 days		0%
1167	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	8月3日星期四	8月21日星期一	NA	NA	1166	1168	-516.25 ...		0%
1168	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	8月21日星期一	9月5日星期二	NA	NA	1167	1169	-516.25 ...		0%
1169	CS2-5220				Inspection and connection works	0 days	NA	NA	5 days	9月5日星期二	9月11日星期一	NA	NA	1168	1170	-516.25 ...		0%
1170	CS2-5230				Backfilling and reinstatement works	0 days	NA	NA	5 days	9月11日星期一	9月16日星期六	NA	NA	1169	1050,57FF,1101	-516.25 ...		0%
1171	**CS2-5100**	**SW2**			**Workfront C1b: Construction of 2 nos. of DN250 DI sludge pipe (CHPS1,CHPS2 CH50-133), 2 nos. of DN350 DI sewage pipe (CHT&CHY CH114-189) and 3 nos. of DN150 DI pipe (CHW CH114-140, CHX&CHZ CH114-140), MHFB64B-MHFB64C**	**152 days**	**7月2日星期六**	**12月31日星期六**	**177 days**	**7月5日星期三**	**2月3日星期六**	**NA**	**NA**	**1160**	**1129,1187**	**-756.25 days**		**0%**
1172	CS2-5110				Conduct underground utilities detection and setting out	5 days	7月2日星期六	7月7日星期四	10 days	7月5日星期三	7月17日星期一	NA	NA		1173	-756.25 ...		0%
1173	CS2-5120				Expose and abandon existing electric cable & trial pits	12 days	7月8日星期五	7月21日星期四	10 days	7月17日星期一	7月28日星期五	NA	NA	1172	1174	-756.25 ...		0%
1174	CS2-5130				Installing sheetpiles and ELS works	90 days	7月22日星期五	11月7日星期一	45 days	7月28日星期五	9月19日星期二	NA	NA	1173	1175	-756.25 ...		0%
1175	CS2-5135				Process Pipes Laying Works	0 days	NA	NA	40 days	9月19日星期二	11月8日星期三	NA	NA	1174	1176	-756.25 ...		0%
1176	CS2-5142				Watermains (Flushing Water Pipe; Fresh Water Supply; Potable Water; Fire Service Water; Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	10 days	11月8日星期三	11月20日星期一	NA	NA	1175,197	1177	-756.25 days		0%
1177	CS2-5145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	11月20日星期一	11月28日星期二	NA	NA	1176	1178FF+2 days	-756.25 ...		0%
1178	CS2-5150				Inspection and connection works	5 days	12月1日星期四	12月6日星期二	5 days	11月24日星期五	11月30日星期四	NA	NA	1177FF+2 days	1179,1239	-756.25 ...		0%
1179	CS2-5160				Backfilling and reinstatement works	20 days	12月7日星期三	12月31日星期六	5 days	11月30日星期四	12月6日星期三	NA	NA	1178	57FF,1182SS,1098,1180	-756.25 ...		0%
1180	CS2-5170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	12月31日星期六	12月31日星期六	0 days	12月6日星期三	12月6日星期三	NA	NA	1179		-708.25 ...		0%
1181	**CS2-5200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**53 days**	**11月30日星期四**	**2月3日星期六**	**NA**	**NA**			**-756.25 ...**		**0%**
1182	CS2-5210				Cable Duct Laying Works (HV 2x3xDN150 uPVC Cable Ducts ; LV Cable 4x3xDN150 uPVC Cable ducts) ; with Cable Draw Pit Construction (HVCP10, HVCP9A, LVCP19, LVCP18A, LVCP18)	0 days	NA	NA	30 days	11月30日星期四	1月8日星期一	NA	NA	1179SS	1183	-756.25 days		0%
1183	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	1月8日星期一	1月23日星期二	NA	NA	1182	1184	-756.25 ...		0%
1184	CS2-5220				Inspection and connection works	0 days	NA	NA	5 days	1月23日星期二	1月29日星期一	NA	NA	1183	1185	-756.25 ...		0%
1185	CS2-5230				Backfilling and reinstatement works	0 days	NA	NA	5 days	1月29日星期一	2月3日星期六	NA	NA	1184	1050,57FF,1101	-756.25 ...		0%
1186	**CS2-6000**	**SW2**			**Sewerage and utilities in Workfront C2**	**77 days**	**7月2日星期六**	**9月30日星期五**	**571.25 days**	**8月9日星期二**	**7月15日星期一**	**月9日星期二8**	**NA**		**1766,1278**	**-570.25 ...**		**1%**
1187	**CS2-6100**	**SW2**			**Construction of 2 nos. of DN250 DI sludge pipe(CHPS1, CHPS2 CH25-50), CH PSW-7**	**77 days**	**7月2日星期六**	**9月30日星期五**	**565.25 days**	**8月9日星期二**	**7月8日星期一**	**月9日星期二8**	**NA**	**1171**		**-564.25 ...**		**1%**
1188	CS2-PMI-0376		237	376	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional sludge removal and sub-water sealing works at MHD2	0 days	NA	NA	1 day	8月9日星期二	8月9日星期二	月9日星期二8	月9日星期二8			0 days		100%
1189	CS2-6110				Conduct underground utilities detection and setting out	2 days	7月2日星期六	7月4日星期一	10 days	2月3日星期六	2月19日星期一	NA	NA		1190	-756.25 ...		0%
1190	CS2-6120				Expose and abandon existing electric cable & trial pits	7 days	7月5日星期二	7月12日星期二	10 days	2月19日星期一	3月1日星期五	NA	NA	1189	1191	-756.25 ...		0%
1191	CS2-6130				Installing sheetpiles and ELS works	40 days	7月13日星期三	8月27日星期六	40 days	3月1日星期五	4月22日星期一	NA	NA	1190	1192	-756.25 ...		0%
1192	CS2-6135				Process Pipes Laying Works	0 days	NA	NA	40 days	4月22日星期一	6月11日星期二	NA	NA	1191	1199SS,1193	-756.25 ...		0%
1193	CS2-6142				Watermains (Fresh Water Supply; Potable Water; Fire Service Water; Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	10 days	6月11日星期二	6月22日星期六	NA	NA	1192,197	1194FF+2 days	-750.25 ...		0%
1194	CS2-6145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	6月17日星期一	6月25日星期二	NA	NA	1193FF+2 days	1195FF+2 days	-750.25 ...		0%
1195	CS2-6150				Inspection and connection works	3 days	9月15日星期四	9月17日星期六	3 days	6月24日星期一	6月27日星期四	NA	NA	1194FF+2 days	1196FF+4 days	-750.25 ...		0%
1196	CS2-6160				Backfilling and reinstatement works	11 days	9月19日星期一	9月30日星期五	3 days	6月28日星期五	7月3日星期三	NA	NA	1195FF+4 days	57FF,1197FF+4 days	-750.25 ...		0%
1197	CS2-6170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	9月30日星期五	9月30日星期五	1 day	7月6日星期六	7月8日星期一	NA	NA	1196FF+4 days		-750.25 ...		0%
1198	**CS2-6200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**68 days**	**4月22日星期一**	**7月15日星期一**	**NA**	**NA**			**-756.25 ...**		**0%**
1199	CS2-6210				Cable Duct Laying Works (LV Cable 3x3xDN150 uPVC Cable ducts) ; with Cable Draw Pit Construction (LVCP17)	0 days	NA	NA	30 days	4月22日星期一	5月29日星期三	NA	NA	1192SS	1200	-756.25 ...		0%
1200	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	5月29日星期三	6月17日星期一	NA	NA	1199	1201	-756.25 ...		0%
1201	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	6月17日星期一	7月3日星期三	NA	NA	1200	1202	-756.25 ...		0%
1202	CS2-6220				Inspection and connection works	0 days	NA	NA	5 days	7月3日星期三	7月9日星期二	NA	NA	1201	1203	-756.25 ...		0%
1203	CS2-6230				Backfilling and reinstatement works	0 days	NA	NA	5 days	7月9日星期二	7月15日星期一	NA	NA	1202	57FF	-756.25 ...		0%
1204	**CS2-7000**	**SW2**			**Sewerage and utilities in Workfront C3**	**219 days**	**10月2日星期六**	**6月30日星期四**	**1058 days**	**3月13日星期六**	**10月7日星期一**	**月13日星期六3**	**NA**		**1773**	**-236 days**		**55%**
1205	**CS2-7100**	**SW2**			**Construction of DN1000 HDPE odour pipe (CHDO2), DN250 DI sludge pipe (CHPS1, CHPS2; CH0-25), DN250 DI pipe (CHPSW-6), DN300 DI pipe(CHTFT2), manhole MHD5A and its associated backdrop manhole**	**219 days**	**10月2日星期六**	**6月30日星期四**	**353 days**	**3月13日星期六**	**5月24日星期二**	**月13日星期六3**	**月24日星期二5**	**1298**		**0 days**		**100%**
1206	CS2-PMI-0349			349	Additional Works Due to Sewage Overflow Incident on 13 March 2021 near PST No. 1	0 days	NA	NA	14 days	3月13日星期六	3月29日星期一	月13日星期六3	月29日星期一3	1210	1207	0 days		100%
1207	CS2-PMI-0376		211	376	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional sub-water sealing works at MHD2	0 days	NA	NA	1 day	8月25日星期三	8月25日星期三	月25日星期三8	月25日星期三8	1206,1210	1211	0 days		100%
1208	CS2-7110				Conduct underground utilities detection and setting out	7 days	10月2日星期六	10月9日星期六	7 days	11月24日星期三	12月1日星期三	月24日星期三11	月1日星期三12		1209	0 days		100%
1209	CS2-7120				Expose and abandon existing electric cable & trial pits	20 days	10月11日星期一	11月3日星期三	20 days	12月3日星期五	12月28日星期二	月3日星期五12	月28日星期二12	1208	1210	0 days		100%
1210	CS2-7130				Installing sheetpiles and ELS works	130 days	11月4日星期四	4月12日星期二	100 days	12月29日星期三	5月4日星期三	月29日星期三12	月4日星期三5	1209	1206,1207	0 days		100%
1211	CS2-NCE-0276		276		DC/2018/07 - Notification of Compensation Event:- Section 2 & KD1D - Demolition and Reinstatement of Existing Manhole for Twin DN250 Sludge Pipe (CHES2 and CHES3)	0 days	NA	NA	10 days	1月6日星期四	1月17日星期一	月6日星期四1	月17日星期一1	1207	1219	0 days		100%
1212	CS2-7135				Process Pipes Laying Works	0 days	NA	NA	7 days	5月5日星期四	5月13日星期五	月5日星期四5	月13日星期五5	1223	1213	0 days		100%
1213	CS2-7142				Watermains (Fresh Water Supply; Potable Water; Fire Service Water; Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	2 days	5月14日星期六	5月16日星期一	月14日星期六5	月16日星期一5	1212,197	1214FF+2 days	0 days		100%
1214	CS2-7145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	14 days	4月30日星期六	5月18日星期三	月30日星期六4	月18日星期三5	1213FF+2 days	1215FF+2 days	0 days		100%
1215	CS2-7150				Inspection and connection works	7 days	5月12日星期四	5月19日星期四	7 days	5月13日星期五	5月20日星期五	月13日星期五5	月20日星期五5	1214FF+2 days	1216FF+2 days	0 days		100%
1216	CS2-7160				Backfilling and reinstatement works	35 days	5月20日星期五	6月30日星期四	35 days	4月7日星期四	5月23日星期一	月7日星期四4	月23日星期一5	1215FF+2 days	1217	0 days		100%
1217	CS2-7170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	6月30日星期四	6月30日星期四	1 day	5月24日星期二	5月24日星期二	月24日星期二5	月24日星期二5	1216	57FF	0 days		100%
1218	**CS2-7200**				**Construction of DN1600 DI Sewage Pipe (CHE,CHF)**	**0 days**	**NA**	**NA**	**616 days**	**9月8日星期四**	**10月7日星期一**	**月8日星期四9**	**NA**			**-236 days**		**34%**



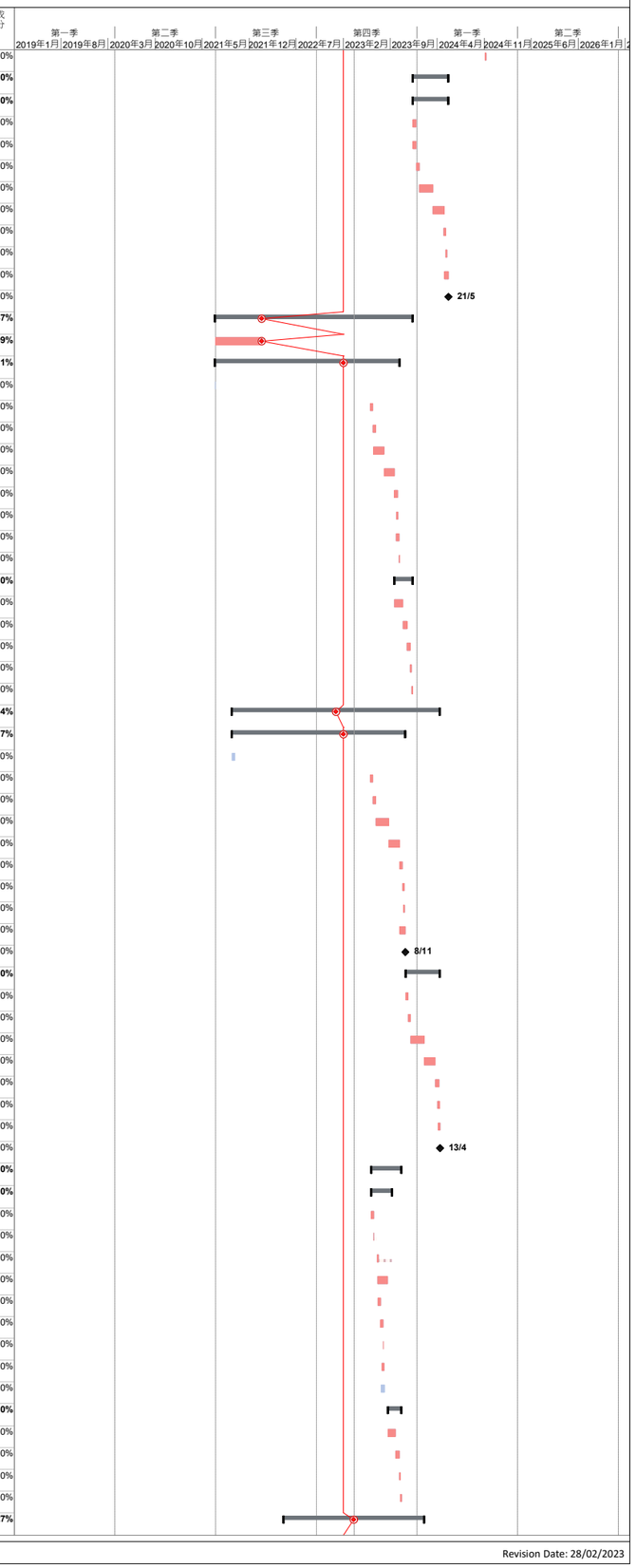
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1219	CS2-NCE-0406B		406		DC/2018/07 - (Section 2 WF D1&C1) Water Leakege from Side Stream Facilities Contractor (DE/2018/04)	0 days	NA	NA	14 days	9月8日星期四	9月24日星期六	月8日星期四9	月24日星期六9	1211		0 days		100%
1220	CS2-NCE417		417		Additional Cleaning due to unexpected sewage overflow incident	0 days	NA	NA	19 days	11月2日星期三	11月23日星期三	月2日星期三11	月23日星期三11		1221	0 days		100%
1221	CS2-NCE451		451		Additional Work due to unexpected sewage overflow incident	0 days	NA	NA	24 days	11月23日星期三	12月20日星期二	月23日星期三11	月20日星期二12	1220	1231FF	0 days		100%
1222	CS2-NCE-0417A		417		DC/2018/07 - Notification of Compensation Event:- Section 2 (WF - D3, C3) & KD1D - Additional Cleaning Works due to Unexpected Sewage Overflow Incident between PST No. 1-2 & RAS Pumping Station	0 days	NA	NA	19 days	11月2日星期三	11月23日星期三	月2日星期三11	月23日星期三11		1223	0 days		100%
1223	CS2-PMI-0360		381	360	DC/2018/07 - Notification of Compensation Event:- Section 1 & Section 2 - (WF-C2) - Additional Work for Left-in Sheet Pile at Deodourization System No. 1	0 days	NA	NA	21 days	1月30日星期一	2月22日星期三	月30日星期一1	NA	1222	1212	245 days		99%
1224	CS2-7210				Conduct underground utilities detection and setting out	0 days	NA	NA	10 days	2月17日星期六	2月28日星期三	NA	NA	434FS+30 days,1614,162	1225	-569 days		0%
1225	CS2-7220				Expose and abandon existing electric cable & trial pits	0 days	NA	NA	10 days	2月29日星期四	3月11日星期一	NA	NA	1224	1226	-569 days		0%
1226	CS2-7230				Installing sheetpiles and ELS works	0 days	NA	NA	90 days	3月12日星期二	7月3日星期三	NA	NA	1225	1227	-569 days		0%
1227	CS2-7240				Process Pipes Laying Works	0 days	NA	NA	40 days	7月4日星期四	8月19日星期一	NA	NA	1226	1228,1233SS	-569 days		0%
1228	CS2-7250				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	8月20日星期二	8月30日星期五	NA	NA	1227	1229	-569 days		0%
1229	CS2-7260				Inspection and connection works	0 days	NA	NA	10 days	8月31日星期六	9月11日星期三	NA	NA	1228	1230	-569 days		0%
1230	CS2-7270				Backfilling and reinstatement works	0 days	NA	NA	10 days	9月12日星期四	9月24日星期二	NA	NA	1229	1231	-569 days		0%
1231	CS2-7280				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	10 days	9月25日星期三	10月7日星期一	NA	NA	1230,1221FF	57FF	-569 days		0%
1232	**CS2-7300**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**68 days**	**7月4日星期四**	**9月21日星期六**	**NA**	**NA**		**1791**	**-557 days**		**0%**
1233	CS2-7310				Cable Duct Laying Works (LV Cable 3x3xDN150 uPVC Cable Ducts) ; with Cable Draw Pit Construction (LVCP16, LVCP14B. LVCP14A)	0 days	NA	NA	30 days	7月4日星期四	8月7日星期三	NA	NA	205FF,1227SS	1234	-557 days		0%
1234	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	8月8日星期四	8月24日星期六	NA	NA	1233	1235	-557 days		0%
1235	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	8月26日星期一	9月9日星期一	NA	NA	1234	1236	-557 days		0%
1236	CS2-7320				Inspection and connection works	0 days	NA	NA	5 days	9月10日星期二	9月14日星期六	NA	NA	1235	1237	-557 days		0%
1237	CS2-7330				Backfilling and reinstatement works	0 days	NA	NA	5 days	9月16日星期一	9月21日星期六	NA	NA	1236	57FF	-557 days		0%
1238	**CS2-8000**	**SW2**			**Sewerage and utilities in Workfront D1**	**91 days**	**6月1日星期三**	**9月13日星期二**	**578.25 days**	**8月5日星期五**	**7月19日星期五**	**月5日星期五8**	**NA**			**416.75 days**		**15%**
1239	**CS2-8100**	**SW2**			**Construction of DN250 DI pipe (CHTFT-2), DN800 MS pipe (CHTA)**	**91 days**	**6月1日星期三**	**9月13日星期二**	**527.25 days**	**8月5日星期五**	**5月18日星期六**	**月5日星期五8**	**NA**	**1159,1178**		**467.75 ...**		**17%**
1240	CS2-NCE-398a		398		Additional Works due to unforeseen concrete : expose the concrete	0 days	NA	NA	11 days	8月5日星期五	8月17日星期三	月5日星期五8	月17日星期三8		1241	0 days		100%
1241	CS2-NCE-0409		409		DC/2018/07 - Notification of Compensation Event:- (Section2&3 WF-D1) - Additional Works due to the Uncharted Concrete Surround near MHD15 and Main Control Room	0 days	NA	NA	5 days	8月31日星期三	9月5日星期一	月31日星期三8	月5日星期一9	1240	1244,1242	0 days		100%
1242	CS2-NCE-398b		398		Additional Works due to unforeseen concrete : trim the concrete	0 days	NA	NA	6 days	8月23日星期二	8月29日星期一	月23日星期二8	月29日星期一8	1241		0 days		100%
1243	CS2-NCE-406b		406		Unexpected Flooding in the Trench	0 days	NA	NA	14 days	9月8日星期四	9月24日星期六	月8日星期四9	月24日星期六9	1251SS		0 days		100%
1244	CS2-NCE-0423C		423		DC/2018/07 - Notification of Compensation Event:- (Section 2&3 WF-D1, A3&C1) Additional Manhole MHD14B due to the Revised Drainage Arrangement from MHD14 to MHD15	0 days	NA	NA	21 days	9月26日星期一	10月21日星期五	月26日星期一9	月21日星期五10	1241	1245	0 days		100%
1245	CS2-NCE-0465B		465		DC/2018/07 - Notification of Compensation Event:- (Section 2 WF D1&c1) Water Leakage from Side Stream Facilities Contractor (DE/2018/03)	0 days	NA	NA	3 days	12月7日星期三	12月9日星期五	月7日星期三12	月9日星期五12	1244		0 days		100%
1246	CS2-NCE-506		506		Additional Works of Concrete Trimming due to Unforeseen Concrete Surround and Obstruction of Existing Cable Duct near Manhole no. MHD16 near Main Control Room	0 days	NA	NA	12 days	12月28日星期三	1月11日星期三	月28日星期三12	月11日星期三1	1247	1249	0 days		100%
1247	CS2-NCE-499		499		Revised Drainage Arrangement :Obstruction of Existing Cable Ducts between Manhole no. MHD15 and MHD16	0 days	NA	NA	240.25 days	2月10日星期五	11月30日星期四	月10日星期五2	NA		1246	601.75 ...		0%
1248	CS2-NCE-502		502		Concrete Trimming Works for Two Uncharted Concrete Blocks near Manhole no. MHD15 in front of Main Control Room	0 days	NA	NA	5 days	2月27日星期一	3月3日星期五	月27日星期一2	月3日星期五3			0 days		100%
1249	CS2-8110				Conduct underground utilities detection and setting out	2 days	6月1日星期三	6月2日星期四	10 days	11月30日星期四	12月12日星期二	NA	NA	1246	1250	-502.25 ...		0%
1250	CS2-8120				Expose and abandon existing electric cable & trial pits	10 days	6月4日星期六	6月15日星期三	10 days	12月12日星期二	12月23日星期六	NA	NA	1249	1251	-502.25 ...		0%
1251	CS2-8130				Installing sheetpiles and ELS works	50 days	6月16日星期四	8月13日星期六	50 days	12月23日星期六	2月27日星期二	NA	NA	1250	1243SS,1253,1252SS	-502.25 ...		0%
1252	CS2-NCE-409		409		Additional Works due to Uncharted Concrete Surround near MHD15 and Main Control Room	0 days	NA	NA	5 days	12月23日星期六	1月2日星期二	NA	NA	1251SS		576.75 ...		0%
1253	CS2-8135				Process Pipes Laying Works	0 days	NA	NA	40 days	2月27日星期二	4月18日星期四	NA	NA	1251	1254	-502.25 ...		0%
1254	CS2-8142				Watermains (Flushing Water Pipe; Fresh Water Supply; Fire Service Water; Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	10 days	4月18日星期四	4月30日星期二	NA	NA	1253	1255FF+4 days,1260	-502.25 days		0%
1255	CS2-8145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	8 days	4月25日星期四	5月6日星期一	NA	NA	1254FF+4 days	1256FF+4 days	-449.25 ...		0%
1256	CS2-8150				Inspection and connection works	2 days	9月7日星期三	9月8日星期四	5 days	5月4日星期六	5月10日星期五	NA	NA	1255FF+4 days	1257FF+4 days	-449.25 ...		0%
1257	CS2-8160				Backfilling and reinstatement works	5 days	9月9日星期五	9月13日星期二	7 days	5月7日星期二	5月16日星期四	NA	NA	1256FF+4 days	57FF,1258FF+2 days	-449.25 ...		0%
1258	CS2-8170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	9月13日星期二	9月13日星期二	0 days	5月18日星期六	5月18日星期六	NA	NA	1257FF+2 days		467.75 ...		0%
1259	**CS2-8200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**65 days**	**4月30日星期二**	**7月19日星期五**	**NA**	**NA**			**-502.25 ...**		**0%**
1260	CS2-8210				Cable Duct Laying Works (LV Cable 3x4xDN150 uPVC Cable Ducts) ; with Cable Draw Pit Construction (LVCP20, LVCP20A)	0 days	NA	NA	30 days	4月30日星期二	6月6日星期四	NA	NA	1254,205FF	1261	-502.25 days		0%
1261	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	6月6日星期四	6月25日星期二	NA	NA	1260	1262	-502.25 ...		0%
1262	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	6月25日星期二	7月11日星期四	NA	NA	1261	1263	-502.25 ...		0%
1263	CS2-8220				Inspection and connection works	0 days	NA	NA	2 days	7月11日星期四	7月13日星期六	NA	NA	1262	1264	-502.25 ...		0%
1264	CS2-8230				Backfilling and reinstatement works	0 days	NA	NA	5 days	7月13日星期六	7月19日星期五	NA	NA	1263	57FF	-502.25 ...		0%
1265	**CS2-9000**	**SW2**			**Sewerage and utilities in Workfront D2**	**67 days**	**9月1日星期三**	**11月20日星期六**	**100 days**	**8月2日星期一**	**11月29日星期一**	**月2日星期一8**	**月29日星期一11**			**0 days**		**100%**
1266	**CS2-9100**	**SW2**			**Construction of DN350 DI temportary flow diversion pipe (CHTE(A), CHTE(B))**	**67 days**	**9月1日星期三**	**11月20日星期六**	**100 days**	**8月2日星期一**	**11月29日星期一**	**月2日星期一8**	**月29日星期一11**			**0 days**		**100%**
1267	CS2-PMI-0460			460	Assist the Trial Operation at Primary Sedimentation Tanks on 4 August 2021	0 days	NA	NA	7 days	8月2日星期一	8月9日星期一	月2日星期一8	月9日星期一8	1273		0 days		100%
1268	CS2-9110				Conduct underground utilities detection and setting out	2 days	9月1日星期三	9月2日星期四	2 days	9月1日星期三	9月2日星期四	月1日星期三9	月2日星期四9		1269	0 days		100%
1269	CS2-9120				Expose and abandon existing electric cable& trial pits	10 days	9月3日星期五	9月14日星期二	10 days	9月3日星期五	9月14日星期二	月3日星期五9	月14日星期二9	1268	1270	0 days		100%
1270	CS2-9130				Installing sheetpiles and ELS works	36 days	9月15日星期三	10月29日星期五	36 days	9月15日星期三	10月29日星期五	月15日星期三9	月29日星期五10	1269	1271	0 days		100%
1271	CS2-9140				Process Pipes Laying Works	0 days	NA	NA	5 days	11月5日星期五	11月10日星期三	月5日星期五11	月10日星期三11	1270	1272	0 days		100%
1272	CS2-9145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	11月11日星期四	11月18日星期四	月11日星期四11	月18日星期四11	1271	1273	0 days		100%
1273	CS2-9150				Inspection and connection works	2 days	11月11日星期四	11月12日星期五	2 days	11月19日星期五	11月20日星期六	月19日星期五11	月20日星期六11	1272	1267	0 days		100%
1274	CS2-9160				Backfilling and reinstatement works	7 days	11月13日星期六	11月20日星期六	7 days	11月22日星期一	11月29日星期一	月22日星期一11	月29日星期一11		1275,57FF	0 days		100%
1275	CS2-9170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	11月20日星期六	11月20日星期六	1 day	11月29日星期一	11月29日星期一	月29日星期一11	月29日星期一11	1274		0 days		100%
1276	**CS2-10000**	**SW2**			**Sewerage and utilities in Workfront D3**	**64 days**	**2月4日星期五**	**4月23日星期六**	**960.25 days**	**8月31日星期二**	**11月26日星期二**	**月31日星期二8**	**NA**			**308.75 days**		**68%**
1277	**CS2-10050**		**267, 255,**		**Construction of DN375 pipe of manhole MHSA5-MHSA4R**	**0 days**	**NA**	**NA**	**149 days**	**8月31日星期二**	**3月2日星期三**	**月31日星期二8**	**月2日星期三3**	**337**		**0 days**		**100%**
1278	**CS2-10100**	**SW2**			**Construction of DN100 DI pretreatment screen pipe (CHPT2)**	**64 days**	**2月4日星期五**	**4月23日星期六**	**868.25 days**	**12月20日星期一**	**11月26日星期二**	**月20日星期一12**	**NA**	**1186**		**308.75 days**		**44%**
1279	CS2-PMI-0584		265	584	DC/2018/07 - Notification of Compensation Event:- Section 2 and Key Date KD1D - Unforseen Underground Condition during construction of DN250 pipeline from MHSA4R to MHSA5	0 days	NA	NA	1 day	12月20日星期一	12月20日星期一	月20日星期一12	月20日星期一12		1283,1284	0 days		100%
1280	CS2-PMI-0513		255	513	DC/2018/07 - Notification of Compensation Event:- Section 2 and KD1D - Additional concrete surround and trimming works for pipe works from MHSA4R to MHSA5	0 days	NA	NA	23 days	1月3日星期一	1月28日星期五	月3日星期一1	月28日星期五1		1281	0 days		100%
1281	CS2-PMI-0597		267	597	DC/2018/07 - Notification of Compensation Event:- Section 2 - Replacement of Grade 200 Rockfill for DN375 Pipeline from Trench MHD5A to MHD5B, MHD10 to MHD5B and MHD5B to MHD9.5	0 days	NA	NA	44 days	3月1日星期二	4月25日星期一	月1日星期二3	月25日星期一4	1280	1282	0 days		100%
1282	CS2-PMI-0657		330	657	DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-D3) Additional Work for Assist DSD/BCM in Cleaning of SAS pipeline	0 days	NA	NA	2 days	5月24日星期二	5月25日星期三	月24日星期二5	月25日星期三5	1281		0 days		100%
1283	CS2-NCE-0417B		417		DC/2018/07 - Notification of Compensation Event:- Section 2 (WF - D3, C3) & KD1D - Additional Cleaning Works due to Unexpected Sewage Overflow Incident between PST No. 1-2 & RAS Pumping Station	0 days	NA	NA	19 days	11月2日星期三	11月23日星期三	月2日星期三11	月23日星期三11	1279		0 days		100%
1284	CS2-10110				Conduct underground utilities detection and setting out	2 days	2月4日星期五	2月5日星期六	10 days	7月15日星期一	7月26日星期五	NA	NA	1279	1285	-610.25 ...		0%
1285	CS2-10120				Expose and abandon existing electric cable& trial pits	10 days	2月7日星期一	2月17日星期四	10 days	7月26日星期五	8月7日星期三	NA	NA	1284	1286	-610.25 ...		0%
1286	CS2-10130				Installing sheetpiles and ELS works	30 days	2月18日星期五	3月24日星期四	30 days	8月7日星期三	9月11日星期三	NA	NA	1285	1287	-610.25 ...		0%



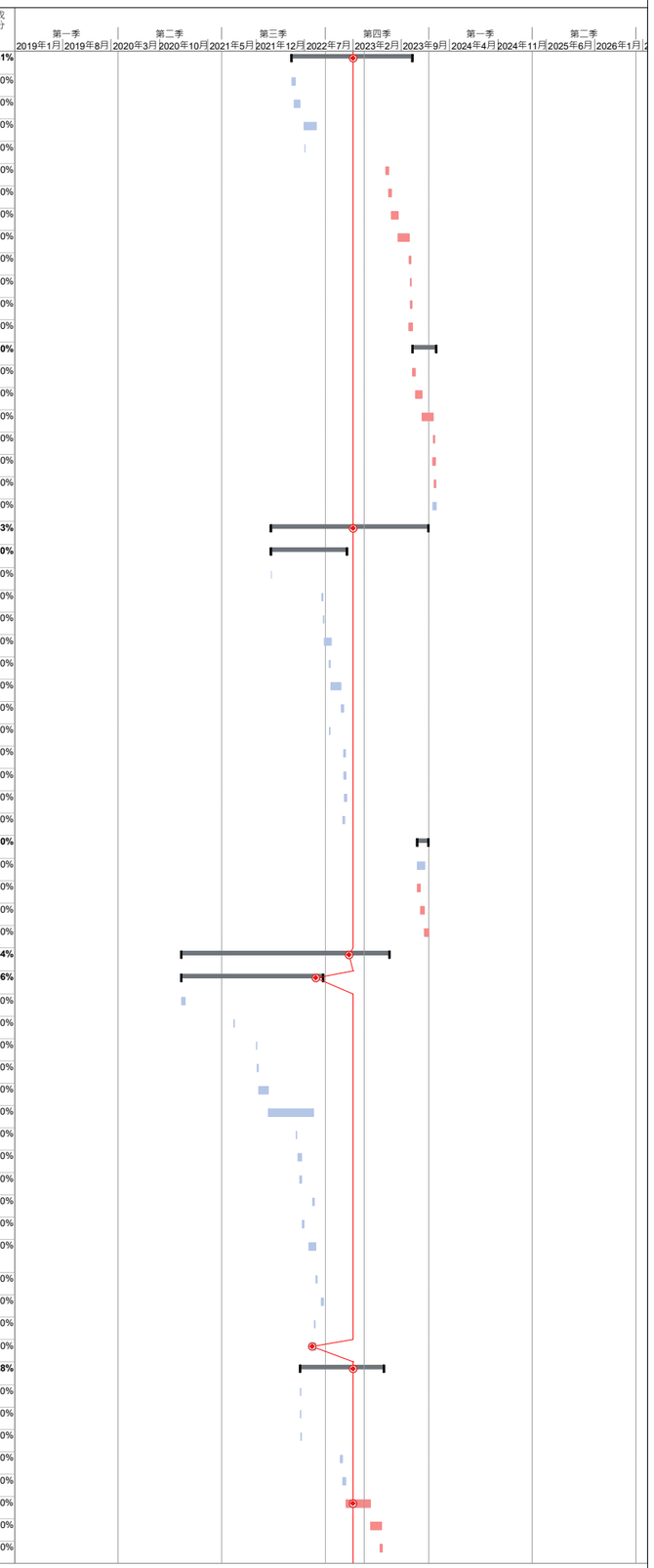
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1287	CS2-10140				Process Pipes Laying Works	0 days	NA	NA	40 days	9月11日星期三	10月31日星期四	NA	NA	1286	1288	-610.25 ...		0%
1288	CS2-10145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	10月31日星期四	11月12日星期二	NA	NA	1287	1289	-610.25 ...		0%
1289	CS2-10150				Inspection and connection works	3 days	4月7日星期四	4月9日星期六	3 days	11月12日星期二	11月15日星期五	NA	NA	1288	1290	-610.25 ...		0%
1290	CS2-10160				Backfilling and reinstatement works	9 days	4月11日星期一	4月23日星期六	9 days	11月15日星期五	11月26日星期二	NA	NA	1289	1291,57FF	-610.25 ...		0%
1291	CS2-10170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	4月23日星期六	4月23日星期六	0 days	11月26日星期二	11月26日星期二	NA	NA	1290		308.75 ...		0%
1292	**CS2-11000**	**SW2**			**Sewerage and utilities in Portion D4**	**75 days**	**9月1日星期三**	**11月30日星期二**	**463 days**	**9月1日星期三**	**3月24日星期五**	**月1日星期三9**	**NA**			**-25 days**		**78%**
1293	**CS2-11100**	**SW2**			**Construction of DN350 DI pipe (CHPSW-1)**	**75 days**	**9月1日星期三**	**11月30日星期二**	**191 days**	**9月1日星期三**	**4月26日星期二**	**月1日星期三9**	**月26日星期二4**			**0 days**		**100%**
1294	CS2-11110				Conduct underground utilities detection and setting out	2 days	9月1日星期三	9月2日星期四	2 days	9月1日星期三	9月2日星期四	月1日星期三9	月2日星期四9		1295	0 days		100%
1295	CS2-11120				Expose and abandon existing electric cable & trial pits	10 days	9月3日星期五	9月14日星期二	10 days	9月3日星期五	9月14日星期二	月3日星期五9	月14日星期二9	1294	1296	0 days		100%
1296	CS2-11130				Installing sheetpiles and ELS works	39 days	9月15日星期三	11月2日星期二	39 days	9月15日星期三	11月2日星期二	月15日星期三9	月2日星期二11	1295	1315,1297	0 days		100%
1297	CS2-11135				Process Pipes Laying Works and Watermains (Potable Water Pipe; Fire Service Water; Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	11 days	11月5日星期五	11月17日星期三	月5日星期五11	月17日星期三11	1315,1296	1298	0 days		100%
1298	CS2-11145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	11月17日星期三	11月24日星期三	月17日星期三11	月24日星期三11	1297	1299,1205	0 days		100%
1299	CS2-11150				Inspection and connection works	2 days	11月17日星期三	11月18日星期四	2 days	11月25日星期四	11月26日星期五	月25日星期四11	月26日星期五11	1298	1300	0 days		100%
1300	CS2-11160				Backfilling and reinstatement works	10 days	11月19日星期五	11月30日星期二	10 days	11月27日星期六	12月8日星期三	月27日星期六11	月8日星期三12	1299	57FF,1301	0 days		100%
1301	CS2-PMI-0588B		263	588	DC/2018/07 - Notification of Compensation Event:- Section 2 and Key Date KD1D - Unforseen Underground Condition of DN80 Pre-treatment Screen Pipe and DN150 Drainage Pipe to MHD2	0 days	NA	NA	12 days	12月24日星期五	1月10日星期一	月24日星期五12	月10日星期一1	1300	1302	0 days		100%
1302	CS2-PMI-0659		329	659	DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-D4) Uncharted Underground Utilities near SAS Consolidation House and MTR	0 days	NA	NA	6 days	4月20日星期三	4月26日星期二	月20日星期三4	月26日星期二4	1301	1305,1303	0 days		100%
1303	CS2-11170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	11月30日星期二	11月30日星期二	14 days	12月9日星期四	12月24日星期五	月9日星期四12	月24日星期五12	1308,1302		0 days		100%
1304	**CS2-11200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**247 days**	**5月28日星期六**	**3月24日星期五**	**月28日星期六5**	**NA**		**1317,1484,1145**	**-25 days**		**59%**
1305	CS2-PMI-0745		373	745	DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-D4) Additional underground works due to Unforeseen Concrete Surround of CLPCP5 Cable Jointing Draw Pit near Consolidation House and MTRCL Track	0 days	NA	NA	28 days	5月28日星期六	6月30日星期四	月28日星期六5	月30日星期四6	1302	1306	0 days		100%
1306	CS2-PMI-0754		408	754	DC/2018/07 - Notification of Compensation Event:- (Section 2 WF-D4) Additional Works due to the Uncharted Underground Utilities and Unforeseen Concrete Surround at LVCP12 near SAS Consolidation House and MTRCL	0 days	NA	NA	40 days	9月13日星期二	10月31日星期一	月13日星期二9	月31日星期一10	1305	1307	0 days		100%
1307	CS2-PMI-0754B		426	754	DC/2018/07 - Notification of Compensation Event:- (Section 2 WF-D4) Additional Concrete Trimming Work due to the Uncharted Underground Utilities and Uncharted Concrete Surround Between Consolidailton House and MTRC	0 days	NA	NA	15 days	11月11日星期五	11月28日星期一	月11日星期五11	月28日星期一11	1306	1308	0 days		100%
1308	CS2-NCE-0439		439		DC/2018/07 - Notification of Compensation Event:- (Section 2 WF-D4) Additional Steel Plate due to Shallow Cover for Cable Ducts next to MTRCL near Consolidation House and Inlet Work No. 1	0 days	NA	NA	3 days	11月14日星期一	11月16日星期三	月14日星期一11	月16日星期三11	1307	1303	0 days		100%
1309	CS2-11210		329		Cable Duct Laying Works (CLP HV Cable 2x4xDN200 + 2xDN100 Cable Ducts; LV Cable 4x4xDN150 Cable Ducts) ; with Cable Draw Pit Construction (CLPCP5, LVCP12, LVCP13, LVCP14)	0 days	NA	NA	120 days	9月17日星期六	2月13日星期一	月17日星期六9	NA		1310	-702 days		41%
1310	CS2-NCE-469		469		Additional Drainage Works due to Site Condition near SAS Consolidation House	0 days	NA	NA	1 day	2月23日星期四	2月23日星期四	月23日星期四2	月23日星期四2	1309	1311	0 days		100%
1311	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	2月24日星期五	3月13日星期一	NA	NA	1310	1312	-736 days		0%
1312	CS2-11220				Inspection and connection works	0 days	NA	NA	5 days	3月14日星期二	3月18日星期六	NA	NA	1311	1313	-736 days		0%
1313	CS2-11230				Backfilling and reinstatement works	0 days	NA	NA	5 days	3月20日星期一	3月24日星期五	NA	NA	1312	57FF	-736 days		0%
1314	**CS2-11300**				**Construction of water pipes and valve chamber**	**0 days**	**NA**	**NA**	**76 days**	**8月29日星期一**	**11月28日星期一**	**月29日星期一8**	**月28日星期一11**			**0 days**		**100%**
1315	CS2-NCE-426		426		Additional Concrete trimming works to uncharted utilities and unforeseen concrete	0 days	NA	NA	15 days	8月29日星期一	9月15日星期四	月29日星期一8	月15日星期四9	1296	1297,1316	0 days		100%
1316	CS2-NCE-437		437		Additional Demolition and Trimming Works for Existing Cable Drawpit next to MTRCL, near Consolidation House and Inlet Works No.1 Building	0 days	NA	NA	6 days	10月24日星期一	10月29日星期六	月24日星期一10	月29日星期六10	1315	1317	0 days		100%
1317	CS2-11301				Construction work for water pipes and valve chamber	0 days	NA	NA	61 days	9月16日星期五	11月28日星期一	月16日星期五9	月28日星期一11	1304,1316		0 days		100%
1318	**CS2-12000**	**SW2**			**Sewerage and utilities in Portion E1**	**88 days**	**1月3日星期二**	**4月22日星期六**	**171 days**	**11月1日星期二**	**6月1日星期四**	**月1日星期二11**	**NA**			**752 days**		**37%**
1319	**CS2-12100**	**SW2**			**Construction of watermains**	**88 days**	**1月3日星期二**	**4月22日星期六**	**171 days**	**11月1日星期二**	**6月1日星期四**	**月1日星期二11**	**NA**			**752 days**		**41%**
1320	CS2-12110				Conduct underground utilities detection and setting out	2 days	1月3日星期二	1月4日星期三	2 days	11月1日星期二	11月2日星期三	月1日星期二11	月2日星期三11	1679SS	1321	0 days		100%
1321	CS2-12120				Expose and abandon existing electric cable & trial pits	10 days	1月5日星期四	1月16日星期一	7 days	11月3日星期四	11月10日星期四	月3日星期四11	月10日星期四11	1320	1322	0 days		100%
1322	CS2-12130				Installing sheetpiles and ELS works	50 days	1月17日星期二	3月18日星期六	50 days	11月11日星期五	1月11日星期三	月11日星期五11	月11日星期三1	1321	1325	0 days		100%
1323	CS2-NCE-449		449		Unforeseen Concrete surround	0 days	NA	NA	4 days	11月21日星期一	11月24日星期四	月21日星期一11	月24日星期四11		1324	0 days		100%
1324	CS2-NCE-0448		448		DC/2018/07 - Notification of Compensation Event:- Section 2 (WF-E1) Revised alignment, Additional Concrete Trimming, Additional GI Cable Ducts & Additional Concrete Surround for the additional cable drawpits and cable ducts adjacent to BR5	0 days	NA	NA	12 days	12月6日星期二	12月19日星期一	月6日星期二12	月19日星期一12	1330,1323		0 days		100%
1325	CS2-12135				Watermains (Flushing Water Pipe; Fresh Water Supply; Fire Service Water; Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	45 days	1月12日星期四	3月8日星期三	月12日星期四1	NA	1322	1334SS,1326	-169 days		25%
1326	CS2-NCE-466		466		Revise Alignment and level for watermains and additional fittings	0 days	NA	NA	60 days	3月9日星期四	5月7日星期日	NA	NA	1325	1327	-208 days		0%
1327	CS2-NCE-471		471		Temporary Reinstatement due to Procurement of additional fittings water pipies	0 days	NA	NA	5 days	5月8日星期一	5月12日星期五	NA	NA	1326	1328	-167 days		0%
1328	CS2-12145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	5月13日星期六	5月20日星期六	NA	NA	1327	1329	-167 days		0%
1329	CS2-12150				Inspection and connection works	2 days	4月6日星期四	4月11日星期二	5 days	5月22日星期一	5月27日星期六	NA	NA	1328	1330FF+4 days	-167 days		0%
1330	CS2-12160				Backfilling and reinstatement works	10 days	4月12日星期三	4月22日星期六	12 days	5月18日星期四	6月1日星期四	NA	NA	1329FF+4 days	57FF,1324,1331	-167 days		0%
1331	CS2-12170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	4月22日星期六	4月22日星期六	0 days	6月1日星期四	6月1日星期四	NA	NA	1330		752 days		0%
1332	**CS2-12200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**93 days**	**12月6日星期二**	**3月30日星期四**	**月6日星期二12**	**NA**			**-34 days**		**26%**
1333	CS2-NCE-448		448		Revised Alignment, Additional Concrete Trimming, Additional GI Cable Ducts & Additional Concrete Surround	0 days	NA	NA	12 days	12月6日星期二	12月19日星期一	月6日星期二12	月19日星期一12		1334	0 days		100%
1334	CS2-12210				Cable Duct Laying Works (LV Cable 2x2xDN150 Cable Ducts) ; with Cable Draw Pit Construction (CDP29, LVCP26A)	0 days	NA	NA	30 days	1月12日星期四	2月18日星期六	月12日星期四1	NA	1325SS,1333	1335	-119 days		25%
1335	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	2月20日星期一	3月8日星期三	NA	NA	1334	1336	-119 days		0%
1336	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	3月9日星期四	3月23日星期四	NA	NA	1335	1337	-119 days		0%
1337	CS2-12220				Inspection and connection works	0 days	NA	NA	3 days	3月24日星期五	3月27日星期一	NA	NA	1336	1338	-119 days		0%
1338	CS2-12230				Backfilling and reinstatement works	0 days	NA	NA	3 days	3月28日星期二	3月30日星期四	NA	NA	1337	57FF	-119 days		0%
1339	**CS2-13000**	**SW2**			**Sewerage and utilities in Portion E2**	**86 days**	**9月19日星期一**	**12月31日星期六**	**145 days**	**5月22日星期三**	**11月12日星期二**	**NA**	**NA**		**1804**	**-599 days**		**0%**
1340	**CS2-13100**	**SW2**			**Construction of DN1600 DI sewage pipe (CHI CH75-95)**	**86 days**	**9月19日星期一**	**12月31日星期六**	**145 days**	**5月22日星期三**	**11月12日星期二**	**NA**	**NA**	**1355**		**-599 days**		**0%**
1341	CS2-13110				Conduct underground utilities detection and setting out	2 days	9月19日星期一	9月20日星期二	12 days	5月22日星期三	6月4日星期二	NA	NA		1342	-599 days		0%
1342	CS2-13120				Expose and abandon existing electric cable & trial pits	10 days	9月21日星期三	10月3日星期一	12 days	6月5日星期三	6月19日星期三	NA	NA	1341	1343	-599 days		0%
1343	CS2-13130				Installing sheetpiles and ELS works	50 days	10月5日星期三	12月1日星期四	50 days	6月20日星期四	8月17日星期六	NA	NA	1342	1344	-599 days		0%
1344	CS2-13135				Process Pipes Laying Works	0 days	NA	NA	40 days	8月19日星期一	10月5日星期六	NA	NA	1343	1350SS,1345	-599 days		0%
1345	CS2-13145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	12 days	10月7日星期一	10月21日星期一	NA	NA	1344	1346	-599 days		0%
1346	CS2-13150				Inspection and connection works	2 days	12月14日星期三	12月15日星期四	7 days	10月22日星期二	10月29日星期二	NA	NA	1345	1347	-599 days		0%
1347	CS2-13160				Backfilling and reinstatement works	12 days	12月16日星期五	12月31日星期六	12 days	10月30日星期三	11月12日星期二	NA	NA	1346	1348,57FF	-599 days		0%
1348	CS2-13170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	12月31日星期六	12月31日星期六	0 days	11月12日星期二	11月12日星期二	NA	NA	1347		-225 days		0%
1349	**CS2-13200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**68 days**	**8月19日星期一**	**11月8日星期五**	**NA**	**NA**			**-596 days**		**0%**
1350	CS2-13210				Cable Duct Laying Works (LV Cable 3x3xDN150 Cable Ducts) ; with Cable Draw Pit Construction (LVCP26, LVCP25)	0 days	NA	NA	30 days	8月19日星期一	9月23日星期一	NA	NA	1344SS,205FF	1351	-596 days		0%
1351	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	9月24日星期二	10月12日星期六	NA	NA	1350	1352	-596 days		0%
1352	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	10月14日星期一	10月28日星期一	NA	NA	1351	1353	-596 days		0%
1353	CS2-13220				Inspection and connection works	0 days	NA	NA	5 days	10月29日星期二	11月2日星期六	NA	NA	1352	1354	-596 days		0%



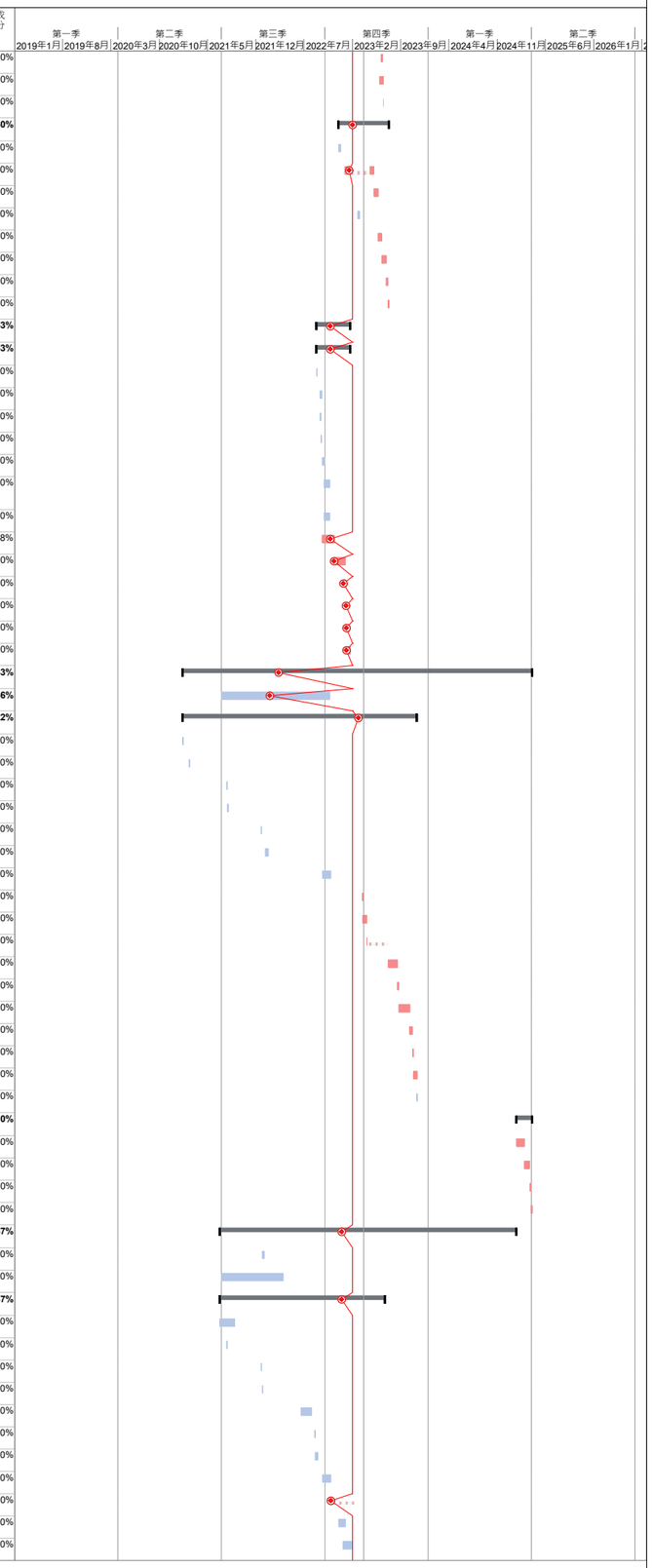
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk AII	完成百分比
1354	CS2-13230				Backfilling and reinstatement works	0 days	NA	NA	5 days	11月4日星期一	11月8日星期五	NA	NA	1353	57FF	-596 days		0%
1355	**CS2-14000**	**SW2**			**Sewerage and utilities in Portion E3**	**93 days**	**10月11日星期一**	**1月31日星期一**	**127 days**	**12月12日星期二**	**5月21日星期二**	**NA**	**NA**		**1811,1340**	**-599 days**		**0%**
1356	**CS2-14100**	**SW2**			**Construction of DN1600 DI sewage pipe (CHI CH35-75), CHJ**	**93 days**	**10月11日星期一**	**1月31日星期一**	**127 days**	**12月12日星期二**	**5月21日星期二**	**NA**	**NA**	**1366**		**-599 days**		**0%**
1357	CS2-PMI-0541			541	CCTV Condition Inspection to the Existing 1050 dia. Overflow Pipe	0 days	NA	NA	12 days	12月12日星期二	12月27日星期三	NA	NA			-484 days		0%
1358	CS2-14110				Conduct underground utilities detection and setting out	2 days	10月11日星期一	10月12日星期二	12 days	12月12日星期二	12月27日星期三	NA	NA		1359	-599 days		0%
1359	CS2-14120				Expose and abandon existing electric cable & trial pits	10 days	10月13日星期三	10月25日星期一	10 days	12月28日星期四	1月9日星期二	NA	NA	1358	1360	-599 days		0%
1360	CS2-14130				Installing sheetpiles and ELS works	50 days	10月26日星期二	12月22日星期三	50 days	1月10日星期三	3月11日星期一	NA	NA	1359	1361	-599 days		0%
1361	CS2-14140				Process Pipe laying works ; Street Fire Hydrant Water Pipe Laying Works	14 days	12月23日星期四	1月11日星期二	40 days	3月12日星期二	5月2日星期四	NA	NA	1360	1362FF+5 days	-599 days		0%
1362	CS1-14145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	4月30日星期二	5月8日星期三	NA	NA	1361FF+5 days	1363FF+5 days	-599 days		0%
1363	CS2-14150				Inspection and connection works	2 days	1月12日星期三	1月13日星期四	5 days	5月9日星期四	5月14日星期二	NA	NA	1362FF+5 days	1364FF+5 days	-599 days		0%
1364	CS2-14160				Backfilling and reinstatement works	15 days	1月14日星期五	1月31日星期一	15 days	5月3日星期五	5月21日星期二	NA	NA	1363FF+5 days	1365,57FF	-599 days		0%
1365	CS2-14170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	1月31日星期一	1月31日星期一	0 days	5月21日星期二	5月21日星期二	NA	NA	1364		-599 days		0%
1366	**CS2-15000**	**SW2**			**Sewerage and utilities in Portion E4**	**75 days**	**8月2日星期一**	**10月30日星期六**	**730 days**	**6月29日星期二**	**12月11日星期一**	**月29日星期二6**	**NA**		**1356**	**-554 days**		**47%**
1367	**CS2-15050**				**Demolition of existing DN1200. DN900 and DN500 pipe (w/ ELS works)**	**0 days**	**NA**	**NA**	**175 days**	**6月30日星期三**	**1月27日星期四**	**月30日星期三6**	**NA**	**533SS**		**-45 days**		**99%**
1368	**CS2-15100**	**SW2**			**Construction of DN1600 DI sewage pipe (CHH), CHG**	**75 days**	**8月2日星期一**	**10月30日星期六**	**680 days**	**6月29日星期二**	**10月12日星期四**	**月29日星期二6**	**NA**	**1387SS**		**-549 days**		**1%**
1369	CS2-PMI-0449		229	449	DC/2018/07 - Notification of Compensation Event:- KD1E & Section 2 - Trial Operation for DN1200 Gate Valve near Bioreactor No. 2	0 days	NA	NA	1 day	6月29日星期二	6月29日星期二	月29日星期二6	月29日星期二6			0 days		100%
1370	CS2-15110				Conduct underground utilities detection and setting out	2 days	8月2日星期一	8月3日星期二	10 days	6月2日星期五	6月13日星期二	NA	NA		1371	-599 days		0%
1371	CS2-15120				Expose and abandon existing electric cable & trial pits	8 days	8月4日星期三	8月12日星期四	10 days	6月14日星期三	6月26日星期一	NA	NA	1370	1372SS+2 days	-599 days		0%
1372	CS2-15130				Installing sheetpiles and ELS works	40 days	8月13日星期五	9月29日星期三	40 days	6月16日星期五	8月3日星期四	NA	NA	1371SS+2 days	1373	-599 days		0%
1373	CS2-15135				Process Pipes Laying Works	0 days	NA	NA	40 days	8月4日星期五	9月19日星期二	NA	NA	1372	1374,1379	-599 days		0%
1374	CS2-15145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	9月20日星期三	10月3日星期二	NA	NA	1373	1375FF+2 days	-549 days		0%
1375	CS2-15150				Inspection and connection works	3 days	10月16日星期六	10月19日星期二	5 days	9月28日星期四	10月5日星期四	NA	NA	1374FF+2 days	1376FF+4 days	-549 days		0%
1376	CS2-15160				Backfilling and reinstatement works	10 days	10月20日星期三	10月30日星期六	10 days	9月27日星期三	10月10日星期二	NA	NA	1375FF+4 days	57FF,1377	-549 days		0%
1377	CS2-15170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	10月30日星期六	10月30日星期六	2 days	10月11日星期三	10月12日星期四	NA	NA	1376		-549 days		0%
1378	**CS2-15200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**68 days**	**9月20日星期三**	**12月11日星期一**	**NA**	**NA**			**-599 days**		**0%**
1379	CS2-15210				Cable Duct Laying Works (LV Cable 3x3xDN150 Cable Ducts) ; with Cable Draw Pit Construction (LVCP23, LVCP24)	0 days	NA	NA	30 days	9月20日星期三	10月27日星期五	NA	NA	1373	1380	-599 days		0%
1380	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	10月28日星期六	11月14日星期二	NA	NA	1379	1381	-599 days		0%
1381	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	11月15日星期三	11月29日星期三	NA	NA	1380	1382	-599 days		0%
1382	CS2-15220				Inspection and connection works	0 days	NA	NA	5 days	11月30日星期四	12月5日星期二	NA	NA	1381	1383	-599 days		0%
1383	CS2-15230				Backfilling and reinstatement works	0 days	NA	NA	5 days	12月6日星期三	12月11日星期一	NA	NA	1382	57FF	-599 days		0%
1384	**CS2-16000**	**SW2**			**Sewerage and utilities in Workfront E5**	**100 days**	**9月10日星期六**	**1月11日星期三**	**763 days**	**9月13日星期一**	**4月13日星期六**	**月13日星期一9**	**NA**		**1823**	**-81 days**		**4%**
1385	**CS2-16100a**	**SW2**			**Workfront E5a: Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHI chainage 0-35 & CHJ chainage 0-40, CHPSW-4, CHPT1, CHPT2 diversion pipe, manhole MHSA4A, MHSA4R**	**100 days**	**9月10日星期六**	**1月11日星期三**	**638 days**	**9月13日星期一**	**11月8日星期三**	**月13日星期一9**	**NA**	**1556**	**1396,1457**	**-423 days**		**7%**
1386	CS2-PMI-0513		248	513	DC/2018/07 - Notification of Compensation Event:- Section 2 and KD1D - Additional concrete surround and trimming works for DN100 Pre-Treatment screen pipes	0 days	NA	NA	11 days	9月13日星期一	9月25日星期六	月13日星期一9	月25日星期六9			0 days		100%
1387	CS2-16110a				Conduct underground utilities detection and setting out	2 days	9月10日星期六	9月13日星期二	10 days	6月2日星期五	6月13日星期二	NA	NA		1388,1368SS	-599 days		0%
1388	CS2-16120a				Expose and abandon existing electric cable& trial pits	10 days	9月14日星期三	9月24日星期六	10 days	6月14日星期三	6月26日星期一	NA	NA	1387	1389	-423 days		0%
1389	CS2-16130a				Installing sheetpiles and ELS works	50 days	9月26日星期一	11月24日星期四	50 days	6月27日星期二	8月24日星期四	NA	NA	1388	1390	-423 days		0%
1390	CS2-16135a				Process Pipes Laying Works	0 days	NA	NA	40 days	8月25日星期五	10月12日星期四	NA	NA	1389	1391	-423 days		0%
1391	CS2-16142a				Watermains (Street Fire Hydrant Water)	0 days	NA	NA	10 days	10月13日星期五	10月25日星期三	NA	NA	1390,197	1392	-423 days		0%
1392	CS2-16145a				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	10月26日星期四	11月2日星期四	NA	NA	1391	1393FF+2 days	-423 days		0%
1393	CS2-16150a				Inspection and connection works	3 days	12月13日星期二	12月15日星期四	5 days	10月31日星期二	11月4日星期六	NA	NA	1392FF+2 days	1394FF+2 days	-423 days		0%
1394	CS2-16160a				Backfilling and reinstatement works	20 days	12月16日星期五	1月11日星期三	20 days	10月14日星期六	11月7日星期二	NA	NA	1393FF+2 days	57FF,1395FF+1 day	-423 days		0%
1395	CS2-16170a				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	1月11日星期三	1月11日星期三	0 days	11月8日星期三	11月8日星期三	NA	NA	1394FF+1 day		-423 days		0%
1396	**CS2-16100b**	**SW2**			**Workfront E5b: Process Pipe CHI chainage 0-35**	**0 days**	**NA**	**NA**	**125 days**	**11月9日星期四**	**4月13日星期六**	**NA**	**NA**	**1385**		**-423 days**		**0%**
1397	CS2-16110b				Conduct underground utilities detection and setting out	0 days	NA	NA	10 days	11月9日星期四	11月20日星期一	NA	NA		1398	-423 days		0%
1398	CS2-16120b				Expose and abandon existing electric cable& trial pits	0 days	NA	NA	10 days	11月21日星期二	12月1日星期五	NA	NA	1397	1399	-423 days		0%
1399	CS2-16130b				Installing sheetpiles and ELS works	0 days	NA	NA	50 days	12月2日星期六	2月1日星期四	NA	NA	1398	1400	-423 days		0%
1400	CS2-16135b				Process Pipes Laying Works	0 days	NA	NA	40 days	2月2日星期五	3月22日星期五	NA	NA	1399	1401	-423 days		0%
1401	CS2-16145b				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	3月23日星期六	4月8日星期一	NA	NA	1400	1402FF+2 days	-423 days		0%
1402	CS2-16150b				Inspection and connection works	0 days	NA	NA	7 days	4月2日星期二	4月10日星期三	NA	NA	1401FF+2 days	1403FF+2 days	-423 days		0%
1403	CS2-16160b				Backfilling and reinstatement works	0 days	NA	NA	7 days	4月5日星期五	4月12日星期五	NA	NA	1402FF+2 days	57FF,1404FF+1 day	-423 days		0%
1404	CS2-16170b				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	0 days	4月13日星期六	4月13日星期六	NA	NA	1403FF+1 day		-81 days		0%
1405	**CS2-31000**				**Sewerage and utilities in Workfront E6**	**0 days**	**NA**	**NA**	**114 days**	**6月7日星期三**	**10月21日星期六**	**NA**	**NA**		**1830**	**-285 days**		**0%**
1406	**CS2-31100**				**Construction of Process Pipes CHQ CH 104-170 , MHFB23, MHFB24**	**0 days**	**NA**	**NA**	**80 days**	**6月7日星期三**	**9月9日星期六**	**NA**	**NA**	**557**		**-285 days**		**0%**
1407	CS2-31110				Conduct underground utilities detection and setting out	0 days	NA	NA	10 days	6月7日星期三	6月17日星期六	NA	NA		1408	-285 days		0%
1408	CS2-31120				Expose and abandon existing electric cable&trial pits	0 days	NA	NA	10 days	6月17日星期六	6月30日星期五	NA	NA	1407	1409	-285 days		0%
1409	CS2-31130				Installing sheetpiles and ELS works	0 days	NA	NA	60 days	7月3日星期一	9月9日星期六	NA	NA	1408	1410SS+2 days	-285 days		0%
1410	CS2-31140				Pipelaying works (Process Pipes and Watermains (Fire Service Water; Sprinkler Water, Street Fire Hydrant Water))	0 days	NA	NA	40 days	7月5日星期三	8月19日星期六	NA	NA	1409SS+2 days,197	1411SS+2 days,1417	-285 days		0%
1411	CS2-NCE-427		427		Revised Details of 3 nos. of Chambers for CHP Pipeline	0 days	NA	NA	10 days	7月7日星期五	7月18日星期二	NA	NA	1410SS+2 days	1412	-219 days		0%
1412	CS2-31145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	7月19日星期三	7月29日星期六	NA	NA	1411	1413FF+2 days	-219 days		0%
1413	CS2-31150				Inspection and connection works	0 days	NA	NA	2 days	7月31日星期一	8月1日星期二	NA	NA	1412FF+2 days	1414FF+2 days	-219 days		0%
1414	CS2-31160				Backfilling and reinstatement works	0 days	NA	NA	10 days	7月24日星期一	8月3日星期四	NA	NA	1413FF+2 days	57FF,1415FF+2 days	-219 days		0%
1415	CS2-31170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	14 days	7月21日星期五	8月5日星期六	NA	NA	1414FF+2 days		152 days		0%
1416	**CS2-31200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**52 days**	**8月21日星期一**	**10月21日星期六**	**NA**	**NA**			**-285 days**		**0%**
1417	CS2-31210				Cable Duct Laying Works (3x3xDN150 Cable Ducts) construction , and Cable Drawpits construction (LVCP25A, LVCP25B, LVCP25C)	0 days	NA	NA	30 days	8月21日星期一	9月23日星期六	NA	NA	205FF,1410	1418	-285 days		0%
1418	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	9月25日星期一	10月11日星期三	NA	NA	1417	1419	-285 days		0%
1419	CS2-31220				Inspection and connection works	0 days	NA	NA	4 days	10月12日星期四	10月16日星期一	NA	NA	1418	1420	-285 days		0%
1420	CS2-31230				Backfilling and reinstatement works	0 days	NA	NA	5 days	10月17日星期二	10月21日星期六	NA	NA	1419	57FF	-285 days		0%
1421	**CS2-17000**	**SW2**			**Sewerage and utilities in Workfront F1**	**50 days**	**10月3日星期一**	**11月30日星期三**	**521 days**	**5月5日星期四**	**2月1日星期四**	**月5日星期四5**	**NA**			**550 days**		**27%**



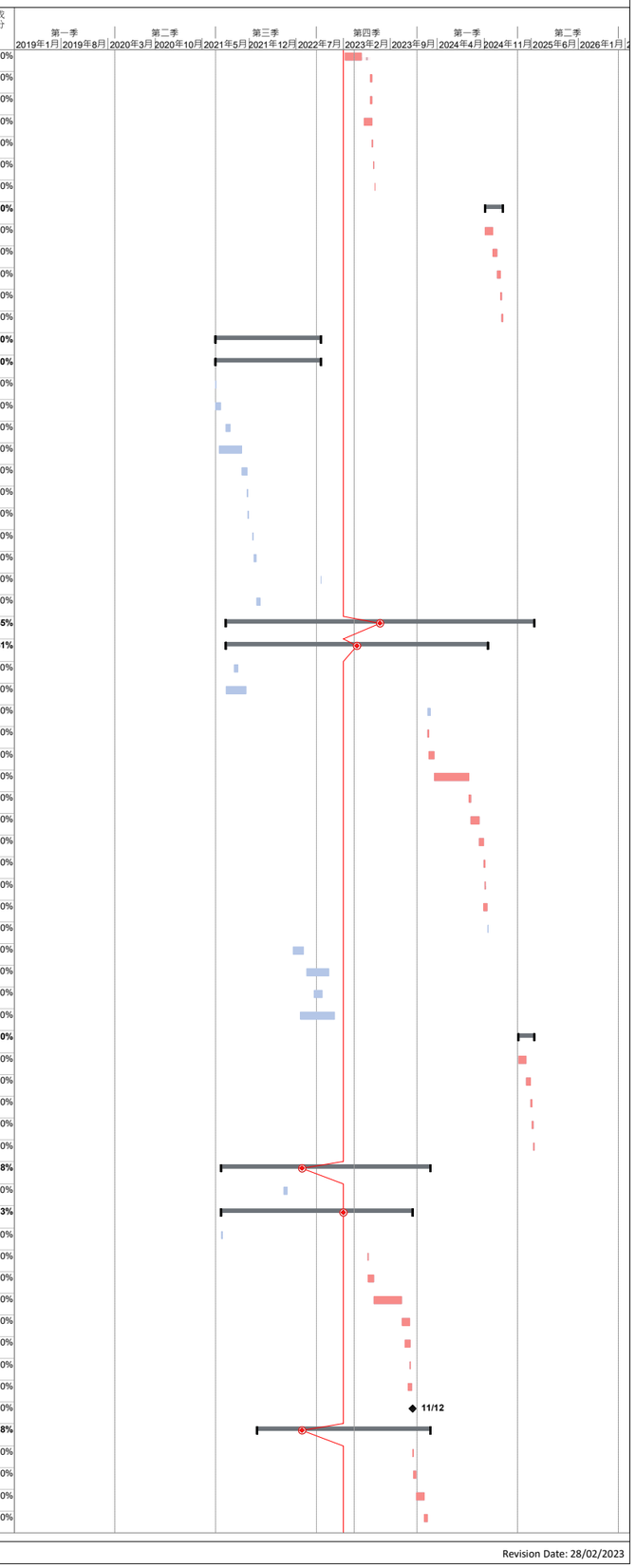
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1422	**CS2-17100a**	**SW2**			**Workfront F1a: Process Pipe CHPSW-1 CH100-108 , DN150 DI SAS pipe CHZB, Bioreactor Tank Drain CHTD1**	**50 days**	**10月3日星期一**	**11月30日星期三**	**435 days**	**5月5日星期四**	**10月19日星期四**	**月5日星期四5**	**NA**		**1436**	**-344 days**		**41%**
1423	CS2-PMI-0213		291	213	DC/2018/07 - Notification of Compensation Event:- Section 2 & WF-F1 - Additional Trimming Works for Concrete Surround of existing DN600 Tank Drain in the Footprint of Manhole MHD7C	0 days	NA	NA	14 days	5月5日星期四	5月21日星期六	月5日星期四5	月21日星期六5			0 days		100%
1424	CS2-PMI-0670		328	670	DC/2018/07 - Notification of Compensation Event:- Section 2 & Workfront F1 - Diversion of DN80 permeate pipe in the footprint of manhole MHD7C	0 days	NA	NA	21 days	5月16日星期一	6月9日星期四	月16日星期一5	月9日星期四6			0 days		100%
1425	CS2-PMI-0702		372	702	DC/2018/07 - Notification of Compensation Event:- Section 2 - (WF-F1) Diversion Works for Existing Cable Duct due to Obstruction encountered during DN450 Drainage Pipe Construction near Compressor House and BR no. 1	0 days	NA	NA	47 days	6月28日星期二	8月22日星期一	月28日星期二6	月22日星期一8			0 days		100%
1426	CS2-PMI-532			532	Modification of Temporary Scum Pipes from BR1 to Existing SAS Consolidation House	0 days	NA	NA	1 day	7月2日星期六	7月2日星期六	月2日星期六7	月2日星期六7			0 days		100%
1427	CS2-17110a		328		Conduct underground utilities detection and setting out	2 days	10月3日星期一	10月5日星期三	10 days	6月24日星期六	7月6日星期四	NA	NA	1544	1428	-367 days		0%
1428	CS2-17120a				Expose and abandon existing electric cable&trial pits	7 days	10月6日星期四	10月13日星期四	10 days	7月7日星期五	7月18日星期二	NA	NA	1427	1429	-367 days		0%
1429	CS2-17130a				Installing sheetpiles and ELS works	25 days	10月14日星期五	11月11日星期五	25 days	7月19日星期三	8月16日星期三	NA	NA	1428	1430	-367 days		0%
1430	CS2-17140a				Process Pipes Laying Works	0 days	NA	NA	40 days	8月17日星期四	10月4日星期三	NA	NA	1429	1431	-367 days		0%
1431	CS2-17145a				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	10月5日星期四	10月12日星期四	NA	NA	1430	1432FF+2 days	-367 days		0%
1432	CS2-17150a				Inspection and connection works	2 days	11月21日星期一	11月22日星期二	5 days	10月10日星期二	10月14日星期六	NA	NA	1431FF+2 days	1433FF+2 days	-367 days		0%
1433	CS2-17160a				Backfilling and reinstatement works	7 days	11月23日星期三	11月30日星期三	7 days	10月10日星期二	10月17日星期二	NA	NA	1432FF+2 days	1434FF+2 days,57FF	-367 days		0%
1434	CS2-17170a				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	11月30日星期三	11月30日星期三	14 days	10月4日星期三	10月19日星期四	NA	NA	1433FF+2 days		-367 days		0%
1435	**CS2-17100b**	**SW2**			**Workfront F1b: Process Pipe CHPSW-1, DN150 DI SAS pipe CHZB, Bioreactor Tank Drain CHTD1**	**0 days**	**NA**	**NA**	**86 days**	**10月20日星期五**	**2月1日星期四**	**NA**	**NA**			**-367 days**		**0%**
1436	CS2-17120b				Expose and abandon existing electric cable&trial pits	0 days	NA	NA	10 days	10月20日星期五	11月1日星期三	NA	NA	1422	1437	-367 days		0%
1437	CS2-17130b				Installing sheetpiles and ELS works	0 days	NA	NA	25 days	11月2日星期四	11月30日星期四	NA	NA	1436	1438	-367 days		0%
1438	CS2-17140b				Process Pipes Laying Works	0 days	NA	NA	40 days	12月1日星期五	1月19日星期五	NA	NA	1437	1439	-367 days		0%
1439	CS2-17145b				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	5 days	1月20日星期六	1月25日星期四	NA	NA	1438	1440FF+2 days	-367 days		0%
1440	CS2-17150b				Inspection and connection works	0 days	NA	NA	10 days	1月17日星期三	1月27日星期六	NA	NA	1439FF+2 days	1441FF+2 days	-367 days		0%
1441	CS2-17160b				Backfilling and reinstatement works	0 days	NA	NA	7 days	1月23日星期二	1月30日星期二	NA	NA	1440FF+2 days	1442FF+2 days,57FF	-367 days		0%
1442	CS2-17170b				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	14 days	1月17日星期三	2月1日星期四	NA	NA	1441FF+2 days		550 days		0%
1443	**CS2-18000**	**SW2**			**Sewerage and utilities in Workfront F2**	**48 days**	**2月4日星期五**	**3月31日星期四**	**566 days**	**2月4日星期五**	**12月30日星期六**	**月4日星期五2**	**NA**			**577 days**		**63%**
1444	**CS2-18100**	**SW2**			**Workfront F2a: Construction of Process Pipe CHPSW-4**	**48 days**	**2月4日星期五**	**3月31日星期四**	**274 days**	**2月4日星期五**	**1月5日星期四**	**月4日星期五2**	**月5日星期四1**			**0 days**		**100%**
1445	CS2-18110				Conduct underground utilities detection and setting out	2 days	2月4日星期五	2月5日星期六	2 days	2月4日星期五	2月5日星期六	月4日星期五2	月5日星期六2			0 days		100%
1446	CS2-NCE-407		407		Additional Concrete Trimming works due to unforeseen concrete	0 days	NA	NA	5 days	9月15日星期四	9月20日星期二	月15日星期四9	月20日星期二9		1447	0 days		100%
1447	CS2-18120				Expose and abandon existing electric cable&trial pits	7 days	2月7日星期一	2月14日星期一	4 days	9月21日星期三	9月24日星期六	月21日星期三9	月24日星期六9	1446	1448	0 days		100%
1448	CS2-18130				Installing sheetpiles and ELS works	23 days	2月15日星期二	3月12日星期六	25 days	9月26日星期一	10月26日星期三	月26日星期一9	月26日星期三10	1447	1449	0 days		100%
1449	CS2-PMI-0754		407	754	DC/2018/07 - (Section 2 WF-F2) Additional Concrete Trimming Works due to Uncharted Concrete Surround near Compressor House	0 days	NA	NA	6 days	10月17日星期一	10月22日星期六	月17日星期一10	月22日星期六10	1448	1450	0 days		100%
1450	CS2-18135				Process Pipes Laying Works	0 days	NA	NA	40 days	10月24日星期一	12月8日星期四	月24日星期一10	月8日星期四12	1449	1451	0 days		100%
1451	CS2-18142				Watermains (Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	10 days	12月9日星期五	12月20日星期二	月9日星期五12	月20日星期二12	1450	1452,1453	0 days		100%
1452	CS2-18144		332		Additional Plugging works for Existing DN75 Potable pipe and DN150 wash water pipe	0 days	NA	NA	1 day	10月19日星期三	10月19日星期三	月19日星期三10	月19日星期三10	1451	1453	0 days		100%
1453	CS2-18145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	5 days	12月21日星期三	12月28日星期三	月21日星期三12	月28日星期三12	1452,1451	1454FF+2 days	0 days		100%
1454	CS2-18150				Inspection and connection works	2 days	3月22日星期二	3月23日星期三	7 days	12月21日星期三	12月30日星期五	月21日星期三12	月30日星期五12	1453FF+2 days	1455FF+2 days	0 days		100%
1455	CS2-18160				Backfilling and reinstatement works	7 days	3月24日星期四	3月31日星期四	7 days	12月23日星期五	1月3日星期二	月23日星期五12	月3日星期二1	1454FF+2 days	57FF,1456FF+2 days	0 days		100%
1456	CS2-18170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	3月31日星期四	3月31日星期四	14 days	12月17日星期六	1月5日星期四	月17日星期六12	月5日星期四1	1455FF+2 days		0 days		100%
1457	**CS2-18200**				**Workfront F2b: Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**43 days**	**11月9日星期四**	**12月30日星期六**	**NA**	**NA**	**1385**		**-342 days**		**0%**
1458	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	30 days	11月9日星期四	12月13日星期三	NA	NA			590 days		0%
1459	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	11月9日星期四	11月23日星期四	NA	NA		1460	-342 days		0%
1460	CS2-18220				Inspection and connection works	0 days	NA	NA	15 days	11月24日星期五	12月11日星期一	NA	NA	1459	1461	-342 days		0%
1461	CS2-18230				Backfilling and reinstatement works	0 days	NA	NA	15 days	12月12日星期二	12月30日星期六	NA	NA	1460	57FF	-342 days		0%
1462	**CS2-19000**	**SW2**			**Sewerage and utilities in Workfront F3**	**125 days**	**9月1日星期三**	**1月31日星期一**	**743 days**	**1月5日星期二**	**7月11日星期二**	**月5日星期二1**	**NA**			**720 days**		**64%**
1463	**CS2-19100**				**Construction of sewerage manhole MHD7A-MHD7B-MHD8**	**0 days**	**NA**	**NA**	**509 days**	**1月5日星期二**	**9月22日星期四**	**月5日星期二1**	**NA**			**35 days**		**96%**
1464	CS2-PMI-0083		327	83	DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront F3) - Provision of Plugging Works of DN675 Pipe inside MHD8 & MHD8A and Plank Removal Works inside MHD8A	0 days	NA	NA	14 days	1月5日星期二	1月20日星期三	月5日星期二1	月20日星期三1			0 days		100%
1465	CS2-PMI-0528		241	528	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional Breaking Works for concrete plinth from MHD30 to MHD01A	0 days	NA	NA	3 days	8月23日星期一	8月25日星期三	月23日星期一8	月25日星期三8			0 days		100%
1466	CS2-19110				Conduct underground utilities detection and setting out	0 days	NA	NA	2 days	12月1日星期三	12月2日星期四	月1日星期三12	月2日星期四12		1467	0 days		100%
1467	CS2-19120				Expose and abandon existing electric cable&trial pits	0 days	NA	NA	5 days	12月3日星期五	12月8日星期三	月3日星期五12	月8日星期三12	1466	1468	0 days		100%
1468	CS2-19130				Installing sheetpiles and ELS works	0 days	NA	NA	34 days	12月10日星期五	1月21日星期五	月10日星期五12	月21日星期五1	1467	1469	0 days		100%
1469	CS2-19140				Manhole works and Pipelaying works	0 days	NA	NA	160 days	1月22日星期六	8月9日星期二	月22日星期六1	月9日星期二8	1468	1473FF+3 days	0 days		100%
1470	CS2-PMI-0646			646	Trial Pit Excavation for Identification of the Existing DN250 Leachate Rising Main near Existing Compressor House	0 days	NA	NA	4 days	5月24日星期二	5月27日星期五	月24日星期二5	月27日星期五5			0 days		100%
1471	CS2-NCE-0334A		334		DC/2018/07 - Notification of Compensation Event:- Section 2 & Workfront I4, F3 - Additional works of pipeline diversion between MHD6 to MHD8	0 days	NA	NA	13 days	6月1日星期三	6月16日星期四	月1日星期三6	月16日星期四6			0 days		100%
1472	CS2-PMI-674b		337	674	Additional Cleaning and Pumping Works for Sewage Pipelines laying and reinstatement works	0 days	NA	NA	7 days	6月9日星期四	6月16日星期四	月9日星期四6	月16日星期四6		1473FF	0 days		100%
1473	CS2-19145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	8月5日星期五	8月12日星期五	月5日星期五8	月12日星期五8	1469FF+3 days,1472FF	1478FF+3 days	0 days		100%
1474	CS2-PMI-0653B			653	Trial Pit Excavation for Identification of Existing Tree Roots near Existing MTRC fencing	0 days	NA	NA	7 days	6月21日星期二	6月28日星期二	月21日星期二6	月28日星期二6			0 days		100%
1475	CS2-PMI-0662A		378	662	DC/2018/07 - Notification of Compensation Event:- Section 2 (WF-I3 & F3) Handover Date to CLP - Site Idling and Delay of Site Progress due to Insufficient Working Areas within Site Boundary near the Auxiliary Building and the MTRC	0 days	NA	NA	28 days	7月19日星期二	8月19日星期五	月19日星期二7	月19日星期五8			0 days		100%
1476	CS2-PMI-0698		397	698	DC/2018/07 - Notification of Compensation Event:- Section 2 (WF-F3) - Demolition of Existing Leachate Chamber adjacent to Existing Auxiliary Pumping Station	0 days	NA	NA	5 days	8月20日星期六	8月25日星期四	月20日星期六8	月25日星期四8			0 days		100%
1477	CS2-PMI-0660		338	660	DC/2018/07 - Notification of Compensation Event:- Section2 (Workfront F3) - Installation of a DN250 Gate Valve and Ball Valve on the existing DN250 Leachate Pipe near Compressor House	0 days	NA	NA	9 days	9月12日星期一	9月22日星期四	月12日星期一9	月22日星期四9			0 days		100%
1478	CS2-19150				Inspection and connection works	0 days	NA	NA	3 days	8月13日星期六	8月16日星期二	月13日星期六8	月16日星期二8	1473FF+3 days	1479FF+3 days,1550	0 days		100%
1479	CS2-19160				Backfilling and reinstatement works	0 days	NA	NA	14 days	8月4日星期四	8月19日星期五	NA	NA	1478FF+3 days	1491,57FF	63 days		0%
1480	**CS2-19300**	**SW2**			**Construction of DN350 DI process pipe CHPSW-1**	**125 days**	**9月1日星期三**	**1月31日星期一**	**301 days**	**6月12日星期日**	**6月16日星期五**	**月12日星期日6**	**NA**			**739 days**		**28%**
1481	CS2-19301		334,327		Installation of additional blank flanges inside MHD7A	0 days	NA	NA	1 day	6月12日星期日	6月13日星期一	月12日星期日6	月13日星期一6		1482	0 days		100%
1482	CS2-19302		334,327		Additional 675mm diameter tank drain diversion w/ modification works for existing MHD8	0 days	NA	NA	1 day	6月13日星期一	6月13日星期一	月13日星期一6	月13日星期一6	1481	1483	0 days		100%
1483	CS2-19303		338		Installation of DN250 Sate Valve and Ball Valve on the existing DN250 Leachate Pipe	0 days	NA	NA	3 days	6月14日星期二	6月16日星期四	月14日星期二6	月16日星期四6	1482		0 days		100%
1484	CS2-19310				Conduct underground utilities detection and setting out	2 days	9月1日星期三	9月2日星期四	10 days	12月5日星期一	12月15日星期四	月5日星期一12	月15日星期四12	1304	1485	0 days		100%
1485	CS2-19320				Expose and abandon existing electric cable&trial pits	10 days	9月3日星期五	9月14日星期二	10 days	12月16日星期五	12月29日星期四	月16日星期五12	月29日星期四12	1484	1486	0 days		100%
1486	CS2-19330				Installing sheetpiles and ELS works	85 days	9月15日星期三	12月28日星期二	85 days	12月30日星期五	4月17日星期一	月30日星期五12	NA	1485	1487	-179 days		30%
1487	CS2-19340				Pipelaying works	10 days	12月29日星期三	1月10日星期一	40 days	4月18日星期二	6月5日星期一	NA	NA	1486	1488FF+3 days,1494SS	-179 days		0%
1488	CS2-19345				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	5月29日星期一	6月8日星期四	NA	NA	1487FF+3 days	1489FF+3 days	-179 days		0%



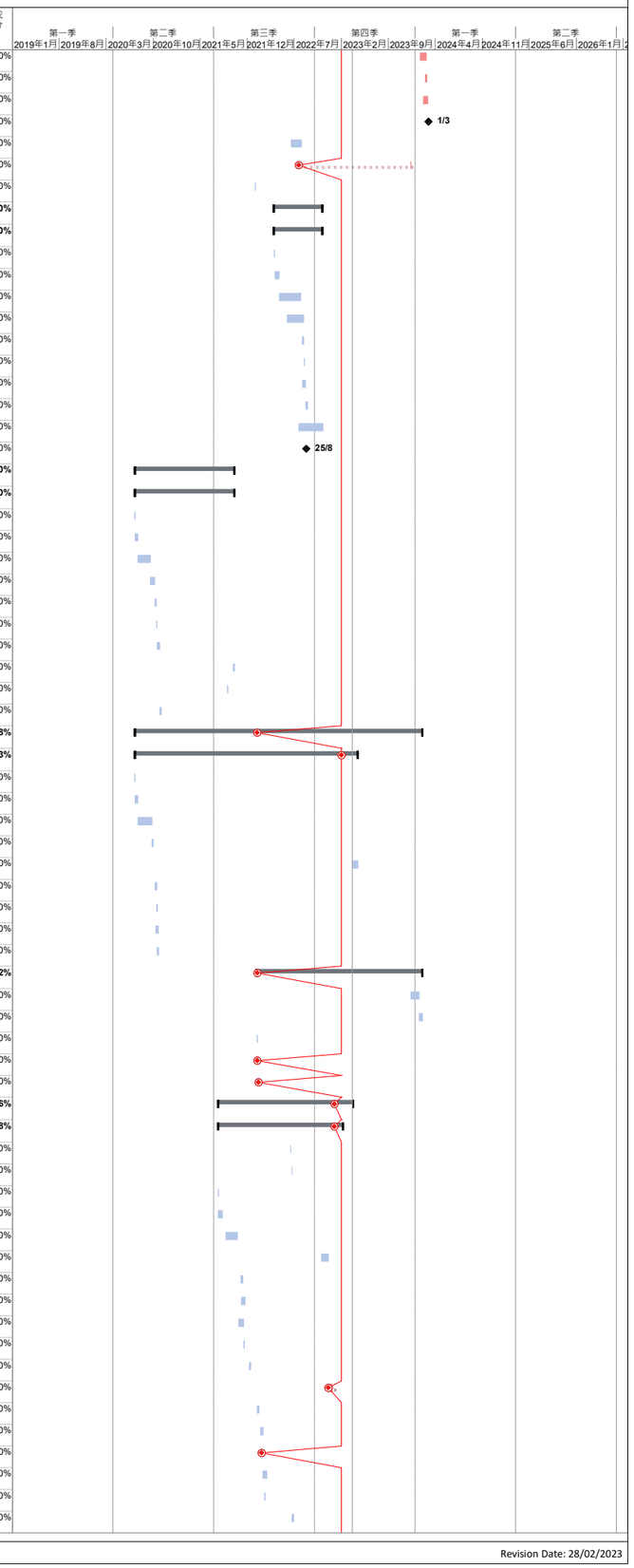
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Rid All	完成百分比
1489	CS2-19350				Inspection and connection works	3 days	1月11日星期二	1月13日星期四	5 days	6月7日星期三	6月12日星期一	NA	NA	1488FF+3 days	1490FF+3 days	-179 days		0%
1490	CS2-19360				Backfilling and reinstatement works	15 days	1月14日星期五	1月31日星期一	14 days	5月31日星期三	6月15日星期四	NA	NA	1489FF+3 days	1491,57FF	-179 days		0%
1491	CS2-19370				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	1月31日星期一	1月31日星期一	1 day	6月16日星期五	6月16日星期五	NA	NA	1490,1479		739 days		0%
1492	**CS2-19400**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**177 days**	**12月1日星期四**	**7月11日星期二**	**月1日星期四12**	**NA**			**-54 days**		**30%**
1493	CS2-CSE-459		459		Additional Pipe Diversion works o DN150 DI SAS Pipe	0 days	NA	NA	8 days	12月1日星期四	12月9日星期五	月1日星期四12	月9日星期五12			0 days		100%
1494	CS2-19410				Cable Ducts laying works (CLP HV Cable 2x4xDN200 + 2xDN100 Cable Ducts;LV Cable 4x4xDN150 Cable Ducts;Proposed CLP Cable Joining Draw Pit CLPCP4, CLPCP3A, CLPCP3, LVCP11, CLVP8)	0 days	NA	NA	30 days	12月21日星期三	5月5日星期五	月21日星期三12	NA	1487SS	1495	-199 days		50%
1495	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	5月6日星期六	5月23日星期二	NA	NA	1494	1497,1496	-199 days		0%
1496	CS2-NCE-503		503		Additional Drainage Demolition Works near SAS Consolidation House and Compressor House	0 days	NA	NA	7 days	2月23日星期四	3月2日星期四	月23日星期四2	月2日星期四3	1497,1495	1498	0 days		100%
1497	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	5月24日星期三	6月8日星期四	NA	NA	1495	1496,1498	-199 days		0%
1498	CS2-NCE-504		504		Additional Cable Drawpit Works near SAS Consolidation House and Compressor House	0 days	NA	NA	16 days	6月9日星期五	6月28日星期三	NA	NA	1496,1497	1499	-199 days		0%
1499	CS2-19420				Inspection and connection works	0 days	NA	NA	5 days	6月29日星期四	7月5日星期三	NA	NA	1498	1500	-199 days		0%
1500	CS2-19430				Backfilling and reinstatement works	0 days	NA	NA	5 days	7月6日星期四	7月11日星期二	NA	NA	1499	57FF	-199 days		0%
1501	**CS2-20000**	**SW2**			**Sewerage and utilities in Workfront G1**	**75 days**	**10月3日星期一**	**12月31日星期六**	**122 days**	**8月25日星期四**	**1月20日星期五**	**月25日星期四8**	**NA**			**-58 days**		**53%**
1502	**CS2-20100**	**SW2**			**Process Pipe DN900 DI RAS pipe (CHP) and 2 nos. of DN250 DI sludge pipe (CHSS1 CH140-183, CHSS2 CH140-182)**	**75 days**	**10月3日星期一**	**12月31日星期六**	**122 days**	**8月25日星期四**	**1月20日星期五**	**月25日星期四8**	**NA**	**1642**		**-58 days**		**53%**
1503	CS2-20110				Conduct underground utilities detection and setting out	2 days	10月3日星期一	10月5日星期三	3 days	8月25日星期四	8月27日星期六	月25日星期四8	月27日星期六8			0 days		100%
1504	CS2-20120				Expose and abandon existing electric cable&trial pits	7 days	10月6日星期四	10月13日星期四	7 days	9月9日星期五	9月17日星期六	月9日星期五9	月17日星期六9	1505FF	1510	0 days		100%
1505	CS2-NCE-0415		415		Additional underground works due to unforeseen concrete surround	0 days	NA	NA	3 days	9月9日星期五	9月13日星期二	月9日星期五9	月13日星期二9		1504FF	0 days		100%
1506	CS2-NCE-0416		416		DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront G1) - Water Leakage from nearby Drainage Pipe along FST No. 10 to FST No. 8	0 days	NA	NA	3 days	9月13日星期二	9月15日星期四	月13日星期二9	月15日星期四9	1513	1507	0 days		100%
1507	CS2-NCE-0415		415		DC/2018/07 - Notification of Compensation Event:- Section2 (Workfront G1) - Additional concrete trimming works due to Unforeseen Concrete Surround of existing cable ducts to facilitate twin DN250 CHSS1 & CHSS2 works	0 days	NA	NA	11 days	9月19日星期一	9月30日星期五	月19日星期一9	月30日星期五9	1506,1513	1508	0 days		100%
1508	CS2-NCE-0430		430		DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront G1) - Additional Concrete Trimming works due to Unforeseen Concrete Block of Existing Underground Utilities & reinstate existing Cable drawpit to facilitate twin DN250 CHSS1 & CHSS2 wo	0 days	NA	NA	20 days	9月28日星期三	10月22日星期六	月28日星期三9	月22日星期六10	1507		0 days		100%
1509	CS2-NCE-0430		430		Additional Concrete Trimming Work	0 days	NA	NA	20 days	9月28日星期三	10月22日星期六	月28日星期三9	月22日星期六10			0 days		100%
1510	CS2-20130				Installing sheetpiles and ELS works	44 days	10月14日星期五	12月3日星期六	44 days	9月19日星期一	11月10日星期四	月19日星期一9	NA	1504	1511	-63 days		68%
1511	CS2-20140				Process Pipes Laying Works	0 days	NA	NA	40 days	11月11日星期五	12月29日星期四	NA	NA	1510	1512FF+2 days	-63 days		0%
1512	CS2-20145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	12月22日星期四	12月31日星期六	NA	NA	1511FF+2 days	1513FF+2 days	-63 days		0%
1513	CS2-20150				Inspection and connection works	2 days	12月16日星期五	12月17日星期六	2 days	1月3日星期二	1月4日星期三	NA	NA	1512FF+2 days	1506,1507,1514	-63 days		0%
1514	CS2-20160				Backfilling and reinstatement works	10 days	12月19日星期一	12月31日星期六	10 days	1月5日星期四	1月16日星期一	NA	NA	1513	1515FF+4 days	-63 days		0%
1515	CS2-20170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	12月31日星期六	12月31日星期六	14 days	1月5日星期四	1月20日星期五	NA	NA	1514FF+4 days	57FF	-63 days		0%
1516	**CS2-21000**	**SW2**			**Sewerage and utilities in Workfront G2**	**118 days**	**9月1日星期三**	**1月22日星期六**	**1258 days**	**1月11日星期一**	**4月3日星期四**	**月11日星期一1**	**NA**			**200 days**		**33%**
1517	**CS2-21050**				**DN600 DI pipe CHTD (CH0-46) and manhole MHTD1 and associated backdrop manhole**	**0 days**	**NA**	**NA**	**391 days**	**6月30日星期三**	**10月22日星期六**	**月30日星期三6**	**NA**	**524SS**		**930 days**		**46%**
1518	**CS2-21100**	**SW2**			**Process Pipe DN1400 DI sewage pipe (CHK CH0-6), 2 nos. of DN250 DI sludge pipe (CHSS1, CHSS2 CH100-140)**	**118 days**	**9月1日星期三**	**1月22日星期六**	**841 days**	**1月11日星期一**	**11月11日星期六**	**月11日星期一1**	**NA**			**617 days**		**22%**
1519	CS2-PMI-554			554	Diversion of Existing 100 dia. uPVC Air Main Branch near BR2	0 days	NA	NA	2 days	1月11日星期一	1月12日星期二	月11日星期一1	月12日星期二1			0 days		100%
1520	CS2-NCE-0292		292		DC/2018/07 - Notification of Compensation Event:- Section 2 & KD1E - Revised alignment and diversion of DN250 SAS concrete pipe near Bioreactor No. 2	0 days	NA	NA	4 days	2月8日星期一	2月11日星期四	月8日星期一2	月11日星期四2			0 days		100%
1521	CS2-PMI-0469A			469	Additional Trial Pit for Existing RAS DN700 and Plugging of DN225 Clay Pipe	0 days	NA	NA	2 days	7月24日星期六	7月26日星期一	月24日星期六7	月26日星期一7			0 days		100%
1522	CS2-PMI-0511A		234	511	DC/2018/07 - Notification of Compensation Event:- Section 2 & Section B-4 - Additional works during DN700 RAS pipe diversion works (CHER) & construction of MHTD1 & MHTD2	0 days	NA	NA	5 days	7月27日星期二	7月31日星期六	月27日星期二7	月31日星期六7	1524		0 days		100%
1523	CS2-PMI-0565A		270	565	DC/2018/07 - Notification of Compensation Event:- Section 2 and KD1E - Additional Works Due to Unexpected Sludge Flow Incident Occurred on 24 December 2021	0 days	NA	NA	1 day	12月24日星期五	12月24日星期五	月24日星期五12	月24日星期五12			0 days		100%
1524	CS2-NCE-0275		275		DC/2018/07 - Notification of Compensation Event:- Section 2 & KD1E - Delay of progress and resources idling due to DN1200 pipe plugging schedule postponed in Distribution Chamber No. 1	0 days	NA	NA	13 days	1月10日星期一	1月24日星期一	月10日星期一1	月24日星期一1		1522	0 days		100%
1525	CS2-NCE-0356A		356		DC/2018/07 - Notification of Compensation Event:- Section 2 (WF - G2. G3 & G5) - Revised Pipeline Alignment on DN250 SAS Pipe and Associated Pipelaying Works	0 days	NA	NA	30 days	9月21日星期三	10月27日星期四	月21日星期三9	月27日星期四10	1533	1534	0 days		100%
1526	CS2-21110				Conduct underground utilities detection and setting out	2 days	9月1日星期三	9月2日星期四	2 days	3月15日星期三	3月16日星期四	NA	NA	1556SS+30 days	1527	-781 days		0%
1527	CS2-21120				Expose and abandon existing electric cable&trial pits	15 days	9月3日星期五	9月20日星期一	15 days	3月17日星期五	4月3日星期一	NA	NA	1526	1528	-781 days		0%
1528	CS2-21130				Installing sheetpiles and ELS works	74 days	9月21日星期二	12月18日星期六	74 days	4月3日星期一	7月7日星期五	NA	NA	1527	1529,1609SS+36 days	-781 days		0%
1529	CS2-PMI-760			760	Grade 200 Rock Fill and Concrete Surround to DN1400 CHK & CHL Process Pipe	0 days	NA	NA	40 days	7月8日星期六	8月16日星期三	NA	NA	1528	1530	-372 days		0%
1530	CS2-PMI-565			565	Clearance of Sludge in Works Area near RAS Pump Station	0 days	NA	NA	5 days	8月17日星期四	8月22日星期二	NA	NA	1529	1531	-302 days		0%
1531	CS2-21140				Pipelaying works	10 days	12月20日星期一	1月3日星期一	40 days	8月23日星期三	10月10日星期二	NA	NA	1530	1532	-302 days		0%
1532	CS2-21145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	10月11日星期三	10月21日星期六	NA	NA	1531	1533	-302 days		0%
1533	CS2-21150				Inspection and connection works	3 days	1月4日星期二	1月6日星期四	3 days	10月24日星期二	10月26日星期四	NA	NA	1532	1525,1534	-302 days		0%
1534	CS2-21160				Backfilling and reinstatement works	14 days	1月7日星期五	1月22日星期六	14 days	10月27日星期五	11月11日星期六	NA	NA	1525,1533	57FF,1535FF	-302 days		0%
1535	CS2-21170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	1月22日星期六	1月22日星期六	1 day	11月11日星期六	11月11日星期六	NA	NA	1534FF		617 days		0%
1536	**CS2-21200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**60 days**	**1月24日星期五**	**4月3日星期四**	**NA**	**NA**		**1602**	**-781 days**		**0%**
1537	CS2-21210				Cable Ducts laying works (LV Cable 4x4xDN150 Cable Duct) ; with Cable Draw Pit Construction (LVCP43B)	0 days	NA	NA	30 days	1月24日星期五	2月27日星期四	NA	NA	205FF,1568	1538	-781 days		0%
1538	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	20 days	2月28日星期五	3月22日星期六	NA	NA	1537	1539	-781 days		0%
1539	CS2-21220				Inspection and connection works	0 days	NA	NA	5 days	3月24日星期一	3月28日星期五	NA	NA	1538	1540	-781 days		0%
1540	CS2-21230				Backfilling and reinstatement works	0 days	NA	NA	5 days	3月29日星期六	4月3日星期四	NA	NA	1539	57FF	-781 days		0%
1541	**CS2-22000**	**SW2**			**Sewerage and utilities in Workfront G3**	**125 days**	**9月1日星期三**	**1月31日星期一**	**1066 days**	**6月24日星期四**	**1月23日星期四**	**月24日星期四6**	**NA**		**1860**	**-584 days**		**67%**
1542	CS2-PMI-711		290	711	Uncharted Pipework diversion for DN25, DN50 GI Pipe, DN25 Irrigation Pipe	0 days	NA	NA	8 days	12月28日星期二	1月6日星期四	月28日星期二12	月6日星期四1			0 days		100%
1543	**CS2-22050**				**DN600 DI pipe CHTD (CH46-61) and manhole MHTD2 and associated backdrop manhole**	0 days	NA	NA	391 days	6月30日星期三	10月22日星期六	月30日星期三6	月22日星期六10	524SS		0 days		100%
1544	**CS2-22100**	**SW2**			**Process Pipe DN1400 DI sewage pipe of CHK CH6-43.5, CHL CH0-31, CHN CH54-70, CHSS1, CHSS2 (CH80-100), manhole MHSA1B**	**125 days**	**9月1日星期三**	**1月31日星期一**	**592 days**	**6月24日星期四**	**6月23日星期五**	**月24日星期四6**	**NA**		**1427**	**-110 days**		**47%**
1545	CS2-PMI-0546		224	546	DC/2018/07 - Notification of Compensation Event:- Section 2 & Portion B-4 - Unforeseen underground condition for existing twin DN700 pipes from RAS pumping station	0 days	NA	NA	56 days	6月24日星期四	8月28日星期六	月24日星期四6	月28日星期六8			0 days		100%
1546	CS2-PMI-0469B			469	Additional Trial Pit for Existing RAS DN700 and Plugging of DN225 Clay Pipe	0 days	NA	NA	2 days	7月24日星期六	7月26日星期一	月24日星期六7	月26日星期一7		1547	0 days		100%
1547	CS2-PMI-565B		270	565	DC/2018/07 - Notification of Compensation Event:- Section 2 and KD1E - Additional Works Due to Unexpected Sludge Flow Incident Occurred on 24 December 2021	0 days	NA	NA	1 day	12月24日星期五	12月24日星期五	月24日星期五12	月24日星期五12	1546	1548	0 days		100%
1548	CS2-PMI-0711		290	711	DC/2018/07 - Notification of Compensation Event:- Section 2 & KD1E - Unforeseen underground condition during DN600 Tank Drain and DN250 SAS pipe diversion works	0 days	NA	NA	3 days	12月28日星期二	12月30日星期四	月28日星期二12	月30日星期四12	1547	1549	0 days		100%
1549	CS2-PMI-0671A		341	671	DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront G3, G5 & G6) - Pipe Diversion Works for existing DN150 DI Pipe due to Obstruction during the Process Pipes Construction	0 days	NA	NA	40 days	6月17日星期五	8月3日星期三	月17日星期五6	月3日星期三8	1548		0 days		100%
1550	CS2-22110				Conduct underground utilities detection and setting out	2 days	9月1日星期三	9月2日星期四	2 days	8月17日星期三	8月18日星期四	月17日星期三8	月18日星期四8	1478	1551	0 days		100%
1551	CS2-22120				Expose and abandon existing electric cable&trial pits	10 days	9月3日星期五	9月14日星期二	10 days	8月19日星期五	8月30日星期二	月19日星期五8	月30日星期二8	1550	1552	0 days		100%
1552	CS2-NCE-0356B		356		DC/2018/07 - Notification of Compensation Event:- Section 2 (WF - G2. G3 & G5) - Revised Pipeline Alignment on DN250 SAS Pipe and Associated Pipelaying Works	0 days	NA	NA	30 days	9月21日星期三	10月27日星期四	月21日星期三9	月27日星期四10	1551	1553	0 days		100%
1553	CS2-22130				Installing sheetpiles and ELS works	82 days	9月15日星期三	12月22日星期三	82 days	10月27日星期四	2月7日星期二	月27日星期四10	NA	1552	1554,1556	-82 days		0%
1554	CS2-PMI-0760			760	Grade 200 Rock Fill and Concrete Surround to DN1400 CHK & CHL Process Pipes	0 days	NA	NA	23 days	12月1日星期四	12月29日星期四	月1日星期四12	月29日星期四12	1553	1555	0 days		100%
1555	CS2-NCE-0436		436		DC/2018/07 - Notification of Compensation Event:- Section 2 WFG3, Anticipation for Additional Manholes for Diversion of Sewerage Pipe from MFB2 connecting to MHTD2	0 days	NA	NA	30 days	12月20日星期二	1月30日星期一	月20日星期二12	月30日星期一1	1554		0 days		100%



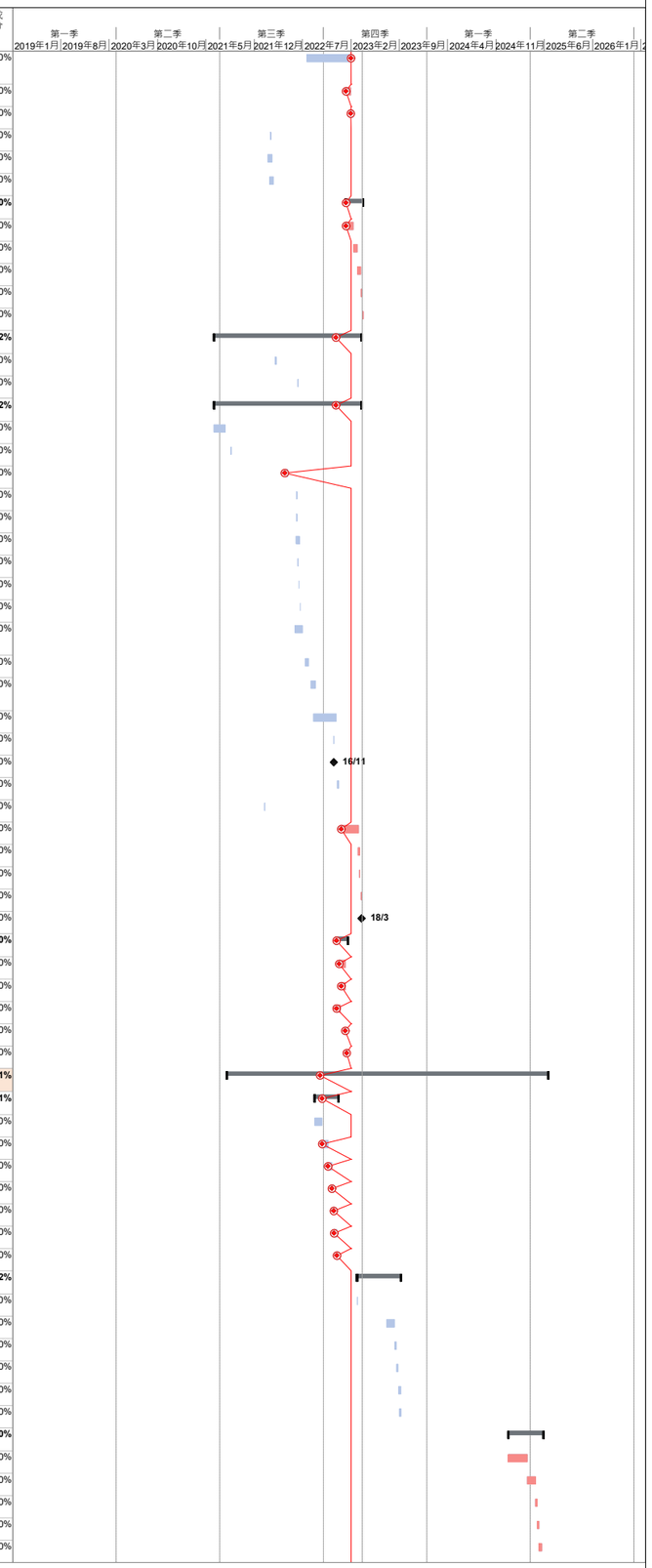
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1556	CS2-22140				Pipelaying works (Process Pipes and Street Fire Hydrant Water)	14 days	12月23日星期四	1月11日星期二	92 days	2月8日星期三	6月1日星期四	NA	NA	1553	1558FF+3 days,1557,1526SS+30	-781 days		0%
1557	CS2-NCE-460		460		Additional Grade 200 Rockfill bedding in twin DN1400 (CHK/CHL)	0 days	NA	NA	7 days	6月2日星期五	6月9日星期五	NA	NA	1556	1558FF	-367 days		0%
1558	CS2-22145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	6月2日星期五	6月9日星期五	NA	NA	1556FF+3 days,1557FF	1560,1559FF	-367 days		0%
1559	CS2-NCE-436		436		Anticipation for Additional Manhole for Diversion of Sewerage Pipe from MFB2 to MHTD2	0 days	NA	NA	30 days	5月5日星期五	6月9日星期五	NA	NA	1558FF	1560	-367 days		0%
1560	CS2-22150				Inspection and connection works	3 days	1月12日星期三	1月14日星期五	3 days	6月10日星期六	6月13日星期二	NA	NA	1558,1559	1561FF+4 days	-367 days		0%
1561	CS2-22160				Backfilling and reinstatement works	14 days	1月15日星期六	1月31日星期一	2 days	6月16日星期五	6月17日星期六	NA	NA	1560FF+4 days	1562FF+4 days,57FF	-367 days		0%
1562	CS2-22170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	1月31日星期一	1月31日星期一	1 day	6月23日星期五	6月23日星期五	NA	NA	1561FF+4 days		-367 days		0%
1563	**CS2-22200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**68 days**	**11月4日星期一**	**1月23日星期四**	**NA**	**NA**			**-781 days**		**0%**
1564	CS2-22210				Cable Ducts Laying Works (LV Cable 5x4xDN150 Cable Duct) ; with Cable Draw Pit Construction (LVCP43)	0 days	NA	NA	30 days	11月4日星期一	12月7日星期六	NA	NA	205FF,1593	1565	-781 days		0%
1565	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	12月9日星期一	12月27日星期五	NA	NA	1564	1566	-781 days		0%
1566	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	12月28日星期六	1月11日星期六	NA	NA	1565	1567	-781 days		0%
1567	CS2-22220				Inspection and connection works	0 days	NA	NA	5 days	1月13日星期一	1月17日星期五	NA	NA	1566	1568	-781 days		0%
1568	CS2-22230				Backfilling and reinstatement works	0 days	NA	NA	5 days	1月18日星期六	1月23日星期四	NA	NA	1567	57FF,1537	-781 days		0%
1569	**CS2-23000**	**SW2**			**Sewerage and utilities in Workfront G4**	**157 days**	**6月25日星期五**	**12月31日星期五**	**390 days**	**6月30日星期三**	**10月21日星期五**	**月30日星期三6**	**月21日星期五10**			**0 days**		**100%**
1570	**CS2-23100**	**SW2**			**DN700 CHER CH0-38**	**157 days**	**6月25日星期五**	**12月31日星期五**	**390 days**	**6月30日星期三**	**10月21日星期五**	**月30日星期三6**	**月21日星期五10**			**0 days**		**100%**
1571	CS2-23110				Conduct underground utilities detection and setting out	2 days	6月25日星期五	6月26日星期六	2 days	6月30日星期三	7月2日星期五	月30日星期三6	月2日星期五7		1572	0 days		100%
1572	CS2-23120				Expose and abandon existing electric cable&trial pits	16 days	6月28日星期一	7月16日星期五	20 days	6月30日星期三	7月23日星期五	月30日星期三6	月23日星期五7	1571	1574,1573	0 days		100%
1573	CS2-PMI-0489			489	Proposed Inter-Connection of Existing Twin DN700 RAS Pipes near RAS Pumping Station	0 days	NA	NA	18 days	8月16日星期一	9月4日星期六	月16日星期一8	月4日星期六9	1579,1572	1578	0 days		100%
1574	CS2-23130				Installing sheetpiles and ELS works	100 days	7月17日星期六	11月13日星期六	84 days	7月17日星期六	10月26日星期二	月17日星期六7	月26日星期二10	1572	1575	0 days		100%
1575	CS2-23140				Pipelaying works	21 days	11月15日星期一	12月8日星期三	21 days	10月27日星期三	11月19日星期五	月27日星期三10	月19日星期五11	1574	1576	0 days		100%
1576	CS2-23145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	3 days	11月20日星期六	11月23日星期二	月20日星期六11	月23日星期二11	1575	1577	0 days		100%
1577	CS2-23150				Inspection and connection works	3 days	12月9日星期四	12月11日星期六	3 days	11月24日星期三	11月26日星期五	月24日星期三11	月26日星期五11	1576	1579,1578	0 days		100%
1578	CS2-PMI-0423		283	423	DC/2018/07 - Notification of Compensation Event:- Section 2 &KD1E - Unexpected limited suspension time of existing CHER DN700 RAS pipe for pipe diversion	0 days	NA	NA	3 days	12月16日星期四	12月18日星期六	月16日星期四12	月18日星期六12	1573,1577	1580	0 days		100%
1579	CS2-23160				Backfilling and reinstatement works	15 days	12月13日星期一	12月31日星期五	8 days	12月21日星期二	12月31日星期五	月21日星期二12	月31日星期五12	1577	57FF,1573	0 days		100%
1580	CS2-PMI-0671			671	Removal of Sewage in the Trial Trench of Process Pipe CHP due to Leakage from Existing SAS Manhole MHC01	0 days	NA	NA	1 day	10月21日星期五	10月21日星期五	月21日星期五10	月21日星期五10	1578	1581	0 days		100%
1581	CS2-23170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	12月31日星期五	12月31日星期五	14 days	1月3日星期一	1月18日星期二	月3日星期一1	月18日星期二1	1580		0 days		100%
1582	**CS2-24000**	**SW2**			**Sewerage and utilities in Workfront G5**	**189 days**	**8月2日星期一**	**3月19日星期六**	**1143 days**	**8月17日星期二**	**6月14日星期六**	**月17日星期二8**	**NA**		**1632SS+21 days**	**138 days**		**55%**
1583	**CS2-24100**	**SW2**	**310**	**489**	**Process Pipe CHM, CHN, CHO, CHP, CHQ, CHV**	**189 days**	**8月2日星期一**	**3月19日星期六**	**965 days**	**8月17日星期二**	**11月16日星期六**	**月17日星期二8**	**NA**	**1614,1623**		**316 days**		**61%**
1584	CS2-PMI-0644		310	644	DC/2018/07 - Notification of Compensation Event:- Section 2 - Temporary plug to abandoned DN700 RAS pipe near RAS Pumping Station	0 days	NA	NA	14 days	9月23日星期四	10月9日星期六	月23日星期四9	月9日星期六10		1585	0 days		100%
1585	CS2-NCE-0284		284		DC/2018/07 - Notification of Compensation Event:- Section 2, KD1J - Revised details of MHFB51, MHFB51A and Flowmeter Chamber near SSSH	0 days	NA	NA	75 days	8月17日星期二	11月15日星期一	月17日星期二8	月15日星期一11	1584	1597	0 days		100%
1586	CS2-NCE388		388		Uncharted Cable Found near RAS Pumping Station and Transformer Room	0 days	NA	NA	10 days	2月17日星期六	2月28日星期三	NA	NA			530 days		0%
1587	CS2-24110				Conduct underground utilities detection and setting out	2 days	8月2日星期一	8月3日星期二	4 days	2月17日星期六	2月21日星期三	NA	NA		1588	-781 days		0%
1588	CS2-24120				Expose and abandon existing electric cable&trial pits	21 days	8月4日星期三	8月27日星期五	21 days	2月22日星期四	3月16日星期六	NA	NA	1587	1589	-781 days		0%
1589	CS2-24130		272		Installing sheetpiles and ELS works	128 days	8月28日星期六	1月31日星期一	128 days	3月18日星期一	8月22日星期四	NA	NA	1588	1590	-781 days		0%
1590	CS2-PMI-569			569	Strengthening to the Existing RAS Channel of RAS Pumping Station	0 days	NA	NA	7 days	8月23日星期五	8月30日星期五	NA	NA	1589	1591	-781 days		0%
1591	CS2-24140				Pipelaying Works	21 days	2月4日星期五	2月28日星期一	30 days	8月31日星期六	10月7日星期一	NA	NA	1590	1592	-781 days		0%
1592	CS2-PMI-709			709	Additional Plugging Works for Strengthening of Existing RAS Channel	0 days	NA	NA	17 days	10月8日星期二	10月28日星期一	NA	NA	1591	1593	-781 days		0%
1593	CS2-24145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	5 days	10月29日星期二	11月2日星期六	NA	NA	1592	1594FF+4 days,1564	-781 days		0%
1594	CS2-24150				Inspection and connection works	3 days	3月1日星期二	3月3日星期四	5 days	11月2日星期六	11月7日星期四	NA	NA	1593FF+4 days	1595FF+4 days	-661 days		0%
1595	CS2-24160				Backfilling and reinstatement works	14 days	3月4日星期五	3月19日星期六	14 days	10月28日星期一	11月12日星期二	NA	NA	1594FF+4 days	1596FF+4 days,57FF,1602	-661 days		0%
1596	CS2-24170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	3月19日星期六	3月19日星期六	1 day	11月16日星期六	11月16日星期六	NA	NA	1595FF+4 days		316 days		0%
1597	CS2-PMI-0671B		341	671	DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront G3, G5 & G6) - Pipe Diversion Works for existing DN150 DI Pipe due to Obstruction during the Process Pipes Construction	0 days	NA	NA	40 days	6月17日星期五	8月3日星期三	月17日星期五6	月3日星期三8	1585	1600	0 days		100%
1598	CS2-PMI-0572			572	Temporary Diversion of DN300 Tank Drain outside MFB No. 1	0 days	NA	NA	85 days	8月17日星期三	11月26日星期六	月17日星期三8	月26日星期六11		1599	0 days		100%
1599	CS2-NCE-0356C		356		DC/2018/07 - Notification of Compensation Event:- Section 2 (WF - G2. G3 & G5) - Revised Pipeline Alignment on DN250 SAS Pipe and Associated Pipelaying Works	0 days	NA	NA	30 days	9月21日星期三	10月27日星期四	月21日星期三9	月27日星期四10	1598		0 days		100%
1600	CS2-NCE-0326		326		DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront G5) - Additional Grouting Works to the Movement Joint at RAS Channel	0 days	NA	NA	129 days	7月21日星期四	12月21日星期三	月21日星期四7	月21日星期三12	1597		0 days		100%
1601	**CS2-24200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**62 days**	**4月4日星期五**	**6月14日星期六**	**NA**	**NA**			**-781 days**		**0%**
1602	CS2-24210				Cable Ducts Laying Works (LV Cable 4x8xDN150 Cable Duct) ; with Cable Draw Pit Construction (LVCP41, LVCP41A, LVCP42, LVCP42A)	0 days	NA	NA	30 days	4月4日星期五	5月8日星期四	NA	NA	1595,205FF,1536	1603	-781 days		0%
1603	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	17 days	5月9日星期五	5月28日星期三	NA	NA	1602	1604	-781 days		0%
1604	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	5 days	5月29日星期四	6月3日星期二	NA	NA	1603	1605	-781 days		0%
1605	CS2-24220				Inspection and connection works	0 days	NA	NA	5 days	6月4日星期三	6月9日星期一	NA	NA	1604	1606	-781 days		0%
1606	CS2-24230				Backfilling and reinstatement works	0 days	NA	NA	5 days	6月10日星期二	6月14日星期六	NA	NA	1605	57FF	-781 days		0%
1607	**CS2-25000**	**SW2**			**Sewerage and utilities in Workfront G6**	**158 days**	**3月21日星期一**	**9月30日星期五**	**771 days**	**7月27日星期二**	**3月1日星期五**	**月27日星期二7**	**NA**		**1867**	**-106 days**		**8%**
1608	CS2-PMI-213			213	Additional Manhole for Tank Drain Diversion near Proposed SAS Pumping Station	0 days	NA	NA	14 days	5月5日星期四	5月21日星期六	月5日星期四5	月21日星期六5			0 days		100%
1609	**CS2-25100a**	**SW2**			**Workfront G6a: Process Pipe CHN, CHPSW-1, CHSS1, CHSS2**	**158 days**	**3月21日星期一**	**9月30日星期五**	**707 days**	**7月27日星期二**	**12月11日星期一**	**月27日星期二7**	**NA**	**1528SS+36 days**	**1667**	**-702 days**		**3%**
1610	CS2-PMI-0511B		234	511	DC/2018/07 - Notification of Compensation Event:- Section 2 & Section B-4 - Additional works during DN700 RAS pipe diversion works (CHER) & construction of MHTD1 & MHTD2	0 days	NA	NA	5 days	7月27日星期二	7月31日星期六	月27日星期二7	月31日星期六7	1613		0 days		100%
1611	CS2-25110a				Conduct underground utilities detection and setting out	2 days	3月21日星期一	3月22日星期二	2 days	5月22日星期一	5月23日星期二	NA	NA		1612	-781 days		0%
1612	CS2-25120a				Expose and abandon existing electric cable&trial pits	21 days	3月23日星期三	4月20日星期三	21 days	5月24日星期三	6月17日星期六	NA	NA	1611	1613	-781 days		0%
1613	CS2-25130a				Installing sheetpiles and ELS works	104 days	4月21日星期四	8月24日星期三	104 days	6月19日星期一	10月21日星期六	NA	NA	1612	1610,1614	-781 days		0%
1614	CS2-25140a				Process Pipes & Street Fire Hydrant Water Pipe Laying Works	0 days	NA	NA	30 days	10月24日星期二	11月27日星期一	NA	NA	1613	1615FF+2 days,1224,1583	-781 days		0%
1615	CS2-25145a				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	20 days	11月7日星期二	11月29日星期三	NA	NA	1614FF+2 days	1616FF+2 days	-781 days		0%
1616	CS2-25150a				Inspection and connection works	3 days	9月10日星期六	9月14日星期三	3 days	11月29日星期三	12月1日星期五	NA	NA	1615FF+2 days	1617FF+4 days	-781 days		0%
1617	CS2-25160a				Backfilling and reinstatement works	14 days	9月15日星期四	9月30日星期五	14 days	11月21日星期二	12月6日星期三	NA	NA	1616FF+4 days	1618FF+4 days,57FF	-781 days		0%
1618	CS2-25170a				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	9月30日星期五	9月30日星期五	0 days	12月11日星期一	12月11日星期一	NA	NA	1617FF+4 days	1619	-781 days		0%
1619	**CS2-25100b**	**SW2**			**Workfront G6b: Process Pipe CHN, CHPSW-1, CHSS1, CHSS2**	**0 days**	**NA**	**NA**	**638 days**	**1月5日星期三**	**3月1日星期五**	**月5日星期三1**	**NA**	**1618**		**-106 days**		**8%**
1620	CS2-25110b				Conduct underground utilities detection and setting out	0 days	NA	NA	2 days	12月12日星期二	12月13日星期三	NA	NA		1621	-781 days		0%
1621	CS2-25120b				Expose and abandon existing electric cable&trial pits	0 days	NA	NA	10 days	12月14日星期四	12月27日星期三	NA	NA	1620	1622	-781 days		0%
1622	CS2-25130b				Installing sheetpiles and ELS works	0 days	NA	NA	30 days	12月28日星期四	2月1日星期四	NA	NA	1621	1623	-781 days		0%
1623	CS2-25140b				Process Pipes & Street Fire Hydrant Water Pipe Laying Works	0 days	NA	NA	10 days	2月2日星期五	2月16日星期五	NA	NA	1622,197	1624FF+2 days,1224,1583	-781 days		0%



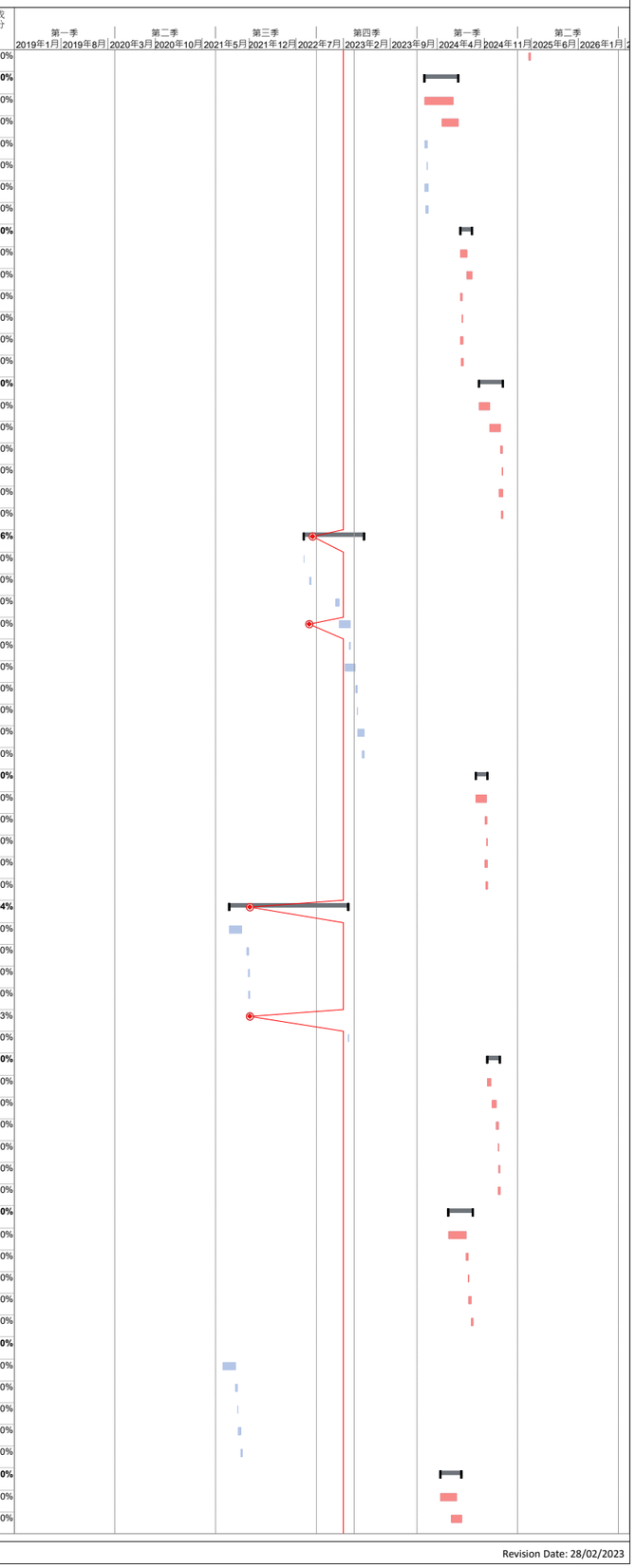
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Rid AIl	完成百分比
1624	CS2-25145b				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	20 days	1月24日星期三	2月19日星期一	NA	NA	1623FF+2 days	1625FF+2 days	-387 days		0%
1625	CS2-25150b				Inspection and connection works	0 days	NA	NA	5 days	2月16日星期五	2月21日星期三	NA	NA	1624FF+2 days	1626FF+4 days	-387 days		0%
1626	CS2-25160b				Backfilling and reinstatement works	0 days	NA	NA	14 days	2月7日星期三	2月26日星期一	NA	NA	1625FF+4 days	1627FF+4 days,57FF	-387 days		0%
1627	CS2-25170b				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	0 days	3月1日星期五	3月1日星期五	NA	NA	1626FF+4 days		-106 days		0%
1628	CS2-PMI-0671C		341	671	DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront G3, G5 & G6) - Pipe Diversion Works for existing DN150 DI Pipe due to Obstruction during the Process Pipes Construction	0 days	NA	NA	40 days	6月17日星期五	8月3日星期三	月17日星期五6	月3日星期三8			0 days		100%
1629	CS2-NCE-0379B		379		DC/2018/07 - Notification of Compensation Event:- Section 2 (WF-H1, G6) - Revised Layout and Associated Fittings of Pipeline CHSS1 & CHSS2	0 days	NA	NA	425 days	7月22日星期五	12月22日星期五	月22日星期五7	NA			-52 days		0%
1630	CS2-PMI-0788		272	788	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional cleaning works due to unexpected sewage overflow near BR2 and MFB2	0 days	NA	NA	2 days	1月5日星期三	1月6日星期四	月5日星期三1	月6日星期四1			0 days		100%
1631	**CS2-26000**	**SW2**			**Sewerage and utilities in Workfront H1**	**100 days**	**3月21日星期一**	**7月23日星期六**	**178 days**	**4月1日星期五**	**11月7日星期一**	**月1日星期五4**	**月7日星期一11**			**0 days**		**100%**
1632	**CS2-26100**	**SW2**			**Process Pipe CHSS1, CHSS2 CH181-254**	**100 days**	**3月21日星期一**	**7月23日星期六**	**178 days**	**4月1日星期五**	**11月7日星期一**	**月1日星期五4**	**月7日星期一11**	**1582SS+21 days**		**0 days**		**100%**
1633	CS2-26110				Conduct underground utilities detection and setting out	2 days	3月21日星期一	3月22日星期二	2 days	4月1日星期五	4月2日星期六	月1日星期五4	月2日星期六4		1634	0 days		100%
1634	CS2-26120				Expose and abandon existing electric cable&trial pits	14 days	3月23日星期三	4月8日星期五	14 days	4月4日星期一	4月23日星期六	月4日星期一4	月23日星期六4	1633	1635	0 days		100%
1635	CS2-26130				Installing sheetpiles and ELS works	60 days	4月9日星期六	6月24日星期五	80 days	4月25日星期一	7月30日星期六	月25日星期一4	月30日星期六7	1634	1636FF+10 days	0 days		100%
1636	CS2-26140				Process Pipes Laying Works	0 days	NA	NA	62 days	5月30日星期一	8月11日星期四	月30日星期一5	月11日星期四8	1635FF+10 days	1637FF+2 days	0 days		100%
1637	CS2-26145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	8月6日星期六	8月13日星期六	月6日星期六8	月13日星期六8	1636FF+2 days	1638FF+2 days	0 days		100%
1638	CS2-26150				Inspection and connection works	2 days	7月8日星期五	7月9日星期六	2 days	8月15日星期一	8月16日星期二	月15日星期一8	月16日星期二8	1637FF+2 days	1639FF+4 days	0 days		100%
1639	CS2-26160				Backfilling and reinstatement works	12 days	7月11日星期一	7月23日星期六	12 days	8月8日星期一	8月20日星期六	月8日星期一8	月20日星期六8	1638FF+4 days	1642FF+4 days,57FF	0 days		100%
1640	CS2-NCE-0402		402		DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront H1) - Additional Concrete Surround for DN250 CHSS1 & CHSS2 Due to Unforeseen Underground Utilities	0 days	NA	NA	9 days	8月22日星期一	8月31日星期三	月22日星期一8	月31日星期三8			0 days		100%
1641	CS2-NCE-0379A		379		DC/2018/07 - Notification of Compensation Event:- Section 2 (WF-H1, G6) - Revised Layout and Associated Fittings of Pipeline CHSS1 & CHSS2	0 days	NA	NA	90 days	7月22日星期五	11月7日星期一	月22日星期五7	月7日星期一11			0 days		100%
1642	CS2-26170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	7月23日星期六	7月23日星期六	0 days	8月25日星期四	8月25日星期四	月25日星期四8	月25日星期四8	1639FF+4 days	1502	0 days		100%
1643	**CS2-27000**	**SW2**			**Sewerage and utilities in Workfront I1**	**88 days**	**1月4日星期三**	**4月24日星期一**	**370 days**	**7月8日星期三**	**10月2日星期六**	**月8日星期三7**	**月2日星期六10**			**0 days**		**100%**
1644	**CS2-27100**	**SW2**			**Process Pipe CHS CH0-72 , CHR CH 57-132**	**88 days**	**1月4日星期三**	**4月24日星期一**	**370 days**	**7月8日星期三**	**10月2日星期六**	**月8日星期三7**	**月2日星期六10**			**0 days**		**100%**
1645	CS2-27110				Conduct underground utilities detection and setting out	2 days	1月4日星期三	1月5日星期四	2 days	7月8日星期三	7月9日星期四	月8日星期三7	月9日星期四7		1646	0 days		100%
1646	CS2-27120				Expose and abandon existing electric cable&trial pits	10 days	1月6日星期五	1月17日星期二	10 days	7月10日星期五	7月21日星期二	月10日星期五7	月21日星期二7	1645	1647	0 days		100%
1647	CS2-27130				Installing sheetpiles and ELS works	50 days	1月18日星期三	3月20日星期一	50 days	7月22日星期三	9月17日星期四	月22日星期三7	月17日星期四9	1646	1648	0 days		100%
1648	CS2-27140				Process Pipes Laying Works	0 days	NA	NA	14 days	9月18日星期五	10月6日星期二	月18日星期五9	月6日星期二10	1647	1649	0 days		100%
1649	CS2-27145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	10月7日星期三	10月14日星期三	月7日星期三10	月14日星期三10	1648	1650	0 days		100%
1650	CS2-27150				Inspection and connection works	2 days	4月11日星期二	4月12日星期三	2 days	10月15日星期四	10月16日星期五	月15日星期四10	月16日星期五10	1649	1651	0 days		100%
1651	CS2-27160				Backfilling and reinstatement works	10 days	4月13日星期四	4月24日星期一	9 days	10月17日星期六	10月28日星期三	月17日星期六10	月28日星期三10	1650	1652	0 days		100%
1652	CS2-PMI-0485			485	Additional Trial Pit for Verifying the Condition of Existing Boundary Fence Footing near FST No. 9	0 days	NA	NA	4 days	9月28日星期二	10月2日星期六	月28日星期二9	月2日星期六10	1651	1653	0 days		100%
1653	CS2-PMI-0485B			485	Additional Trial Pit for Verifying the Condition of Existing Boundary Fence Footing near FST No. 9	0 days	NA	NA	2 days	9月1日星期三	9月2日星期四	月1日星期三9	月2日星期四9	1652	1654	0 days		100%
1654	CS2-27170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	4月24日星期一	4月24日星期一	7 days	10月29日星期四	11月5日星期四	月29日星期四10	月5日星期四11	1653		0 days		100%
1655	**CS2-28000**	**SW2**			**Sewerage and utilities in Workfront I2**	**92 days**	**9月13日星期二**	**1月3日星期二**	**1063 days**	**7月8日星期三**	**2月2日星期五**	**月8日星期三7**	**NA**			**549 days**		**58%**
1656	**CS2-28100**	**SW2**			**Process Pipe CHR CH0-26**	**92 days**	**9月13日星期二**	**1月3日星期二**	**822 days**	**7月8日星期三**	**4月15日星期六**	**月8日星期三7**	**NA**			**790 days**		**83%**
1657	CS2-28110				Conduct underground utilities detection and setting out	2 days	9月13日星期二	9月14日星期三	2 days	7月8日星期三	7月9日星期四	月8日星期三7	月9日星期四7		1658	0 days		100%
1658	CS2-28120				Expose and abandon existing electric cable&trial pits	10 days	9月15日星期四	9月26日星期一	10 days	7月10日星期五	7月21日星期二	月10日星期五7	月21日星期二7	1657	1659	0 days		100%
1659	CS2-28130				Installing sheetpiles and ELS works	55 days	9月27日星期二	12月1日星期四	55 days	7月22日星期三	9月23日星期三	月22日星期三7	月23日星期三9	1658	1660	0 days		100%
1660	CS2-28135				Process Pipes Laying Works	0 days	NA	NA	5 days	9月24日星期四	9月29日星期二	月24日星期四9	月29日星期二9	1659	1671	0 days		100%
1661	CS2-28142				Watermains (Potable Water Pipe; Fire Service Water; Sprinkler Water, Street Fire Hydrant Water)	0 days	NA	NA	20 days	3月20日星期一	4月15日星期六	NA	NA	1704	1662	790 days		0%
1662	CS2-28145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	10月8日星期四	10月15日星期四	月8日星期四10	月15日星期四10	1661	1663FF+2 days	0 days		100%
1663	CS2-28150				Inspection and connection works	2 days	12月17日星期六	12月19日星期一	2 days	10月16日星期五	10月17日星期六	月16日星期五10	月17日星期六10	1662FF+2 days	1664FF+4 days	0 days		100%
1664	CS2-28160				Backfilling and reinstatement works	10 days	12月20日星期二	1月3日星期二	10 days	10月12日星期一	10月22日星期四	月12日星期一10	月22日星期四10	1663FF+4 days	1665FF+2 days,57FF	0 days		100%
1665	CS2-28170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	1月3日星期二	1月3日星期二	7 days	10月17日星期六	10月24日星期六	月17日星期六10	月24日星期六10	1664FF+2 days		0 days		100%
1666	**CS2-28200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**609 days**	**1月14日星期五**	**2月2日星期五**	**月14日星期五1**	**NA**			**549 days**		**2%**
1667	CS2-28210				Cable Duct Laying Works (HV Cable 2x4xDN150 uPVC Cable Ducts; LV Cables 5x4 DN150 uPVC Cable Ducts) ; with Cable Draw Pit Construction (HVCP1, HVCP2, HVCP3, HVCP3, LVCP1, LVCP2, LVCP3)	0 days	NA	NA	30 days	12月12日星期二	1月18日星期四	NA	NA	1609	1668	549 days		0%
1668	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	1月19日星期五	2月2日星期五	NA	NA	1667	1669	549 days		0%
1669	CS2-PMI-0578C		205	578	DC/2018/07 - Notification of Compensation Event:- Section 2 & KD1J - Unexpected sewerage flow near MFB no. 1 and auxilliary facilities	0 days	NA	NA	1 day	1月14日星期五	1月14日星期五	月14日星期五1	月14日星期五1	1668	1670	0 days		100%
1670	CS2-28220				Inspection and connection works	0 days	NA	NA	5 days	1月15日星期六	1月20日星期四	NA	NA	1669	1671	228 days		0%
1671	CS2-28230				Backfilling and reinstatement works	0 days	NA	NA	5 days	1月21日星期五	1月26日星期三	NA	NA	1670,1660	57FF	228 days		0%
1672	**CS2-29000**	**SW2**			**Sewerage and utilities in Workfront I3**	**128 days**	**8月1日星期一**	**1月3日星期二**	**500 days**	**7月21日星期三**	**3月25日星期六**	**月21日星期三7**	**NA**		**1889**	**183 days**		**76%**
1673	**CS2-29100**	**SW2**	**294,286,**		**Construction of manhole MHFB51A, MHFB51, MHFB52, PSW3**	**128 days**	**8月1日星期一**	**1月3日星期二**	**461 days**	**7月21日星期三**	**2月8日星期三**	**月21日星期三7**	**NA**			**222 days**		**88%**
1674	CS2-29101		336		Removing of steel plate from as-constructed MHFB51	0 days	NA	NA	1 day	6月15日星期三	6月15日星期三	月15日星期三6	月15日星期三6			0 days		100%
1675	CS2-29102		340	85	Subsequent benching modification works and Painting works	0 days	NA	NA	1 day	6月20日星期一	6月20日星期一	月20日星期一6	月20日星期一6			0 days		100%
1676	CS2-29110				Conduct underground utilities detection and setting out	2 days	8月1日星期一	8月2日星期二	2 days	7月21日星期三	7月22日星期四	月21日星期三7	月22日星期四7		1677	0 days		100%
1677	CS2-29120				Expose and abandon existing electric cable&trial pits	15 days	8月3日星期三	8月19日星期五	15 days	7月23日星期五	8月9日星期一	月23日星期五7	月9日星期一8	1676	1678	0 days		100%
1678	CS2-PMI-0085		286	0085	DC/2018/07 - Notification of Compensation Event:- Section 2, KD1J - Revised details of MHFB51, MHFB51A and Flowmeter Chamber near SSSH	0 days	NA	NA	43 days	8月25日星期三	10月16日星期六	月25日星期三8	月16日星期六10	1677	1689,1679	0 days		100%
1679	CS2-29130				Installing sheetpiles and ELS works	85 days	8月20日星期六	11月30日星期三	28 days	11月1日星期二	12月2日星期五	月1日星期二11	月2日星期五12	1689,1678	1680,1685,1320SS	0 days		100%
1680	CS2-PMI-580c		258	580	Additional Cleaning and Pumping Works at Excavated Trench of MFB No.2 and EVA outside MFB No.1	0 days	NA	NA	7 days	11月1日星期一	11月8日星期一	月1日星期一11	月8日星期一11	1679	1681	0 days		100%
1681	CS2-PMI-0586				DC/2018/07 - Notification of Compensation Event:- Section 2, KD1J - Coreholes and Cable Ducts for Cables Laying in MHFB51, MHFB51A and Flowmeter Chamber	0 days	NA	NA	15 days	11月3日星期三	11月19日星期五	月3日星期三11	月19日星期五11	1680	1682	0 days		100%
1682	CS2-29132				Manhole Works	0 days	NA	NA	20 days	10月22日星期五	11月13日星期六	月22日星期五10	月13日星期六11	1681	1683	0 days		100%
1683	CS2-PMI-586			586	Additional Core Holes for MHFB51 and MHFB51A	0 days	NA	NA	2 days	11月15日星期一	11月16日星期二	月15日星期一11	月16日星期二11	1682		0 days		100%
1684	CS2-PMI-0573		262	573	DC/2018/07 - Notification of Compensation Event:- Section 2 and KD1J - Additional works for diversion of leachate pipe near Sheung Shui Slaughter House and MTRC Track	0 days	NA	NA	6 days	12月9日星期四	12月15日星期三	月9日星期四12	月15日星期三12			0 days		100%
1685	CS2-29135				Process Pipes Laying Works	0 days	NA	NA	28 days	12月3日星期六	1月7日星期六	月3日星期六12	NA	1679	1686,1693	-115 days		0%
1686	CS2-PMI-578b		205	578	Unexpected Sewage Overflow near MFB No.1 and auxciliary facilities	0 days	NA	NA	7 days	1月14日星期五	1月21日星期五	月14日星期五1	月21日星期五1	1685		0 days		100%
1687	CS2-29145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	1月29日星期六	2月9日星期三	月29日星期六1	月9日星期三2	1693	1695FF+2 days	0 days		100%
1688	CS2-PMI-0648		295	648	DC/2018/07 - Notification of Compensation Event:- Section 2 and KD1J - Additional Cleaning Works Due to Unexpected Sewage Overflow Incident Occurred on 2 March 2022	0 days	NA	NA	1 day	2月3日星期四	2月4日星期五	月3日星期四2	NA			521 days		0%
1689	CS2-PMI-0605		288	605	DC/2018/07 - Notification of Compensation Event:- Delay of Section 2 & KD1J - Additional pipe diversion works for DN250 Pipe due to Discrepancy between as-built Information and Site Situation near SSSH	0 days	NA	NA	17 days	2月8日星期二	2月26日星期六	月8日星期二2	月26日星期六2	1678	1679	0 days		100%
1690	CS2-PMI-0605B		294	605	DC/2018/07 - Notification of Compensation Event:- Section 2 & KD1J - Replacement of Grade 200 Rockfill for DN250 Golf Pipe and DN400 DI pipe from MHFB52 to MHD6 near Sheung Shui Slaughter House	0 days	NA	NA	2 days	2月18日星期五	2月19日星期六	月18日星期五2	月19日星期六2			0 days		100%
1691	CS2-PMI-0653A			653	Trial Pit Excavation for Identification of Existing Tree Roots near Existing MTRC fencing	0 days	NA	NA	7 days	6月21日星期二	6月28日星期二	月21日星期二6	月28日星期二6			0 days		100%



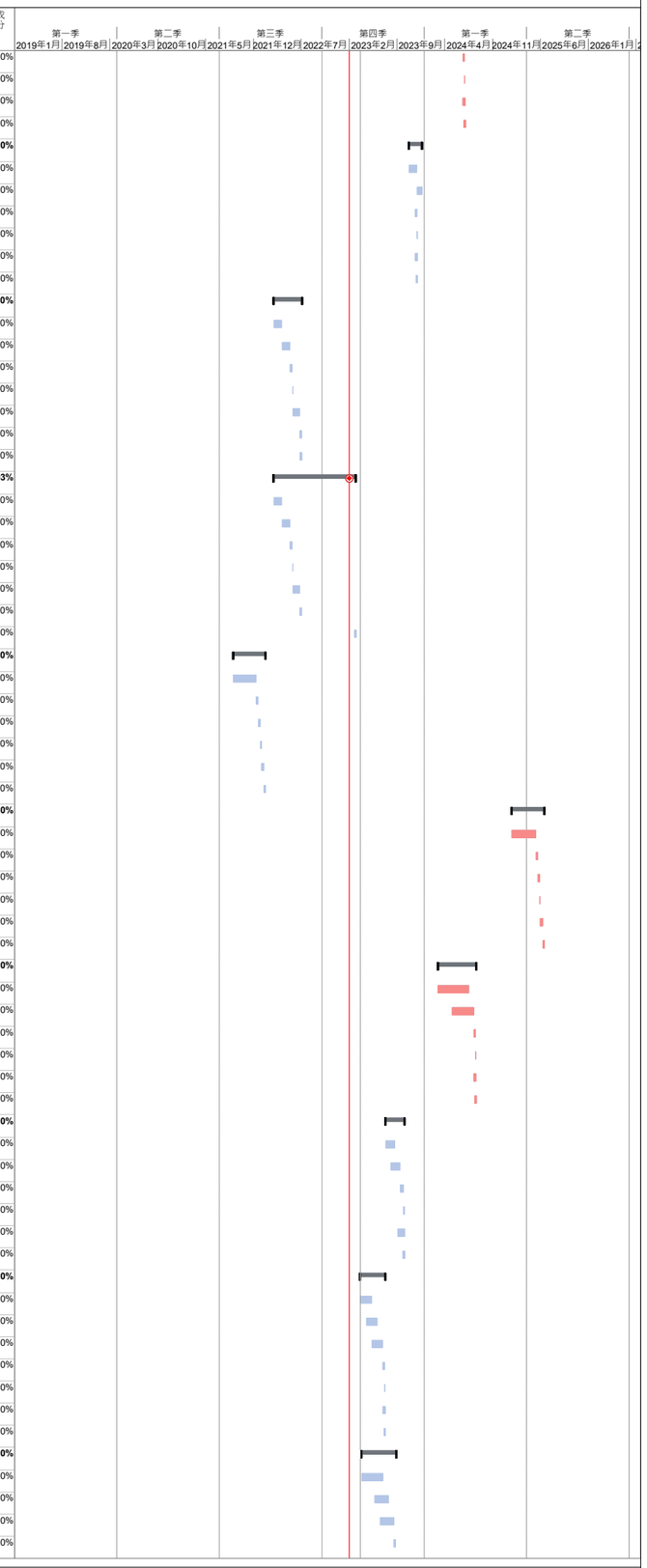
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1692	CS2-PMI-0662B		378	662	DC/2018/07 - Notification of Compensation Event:- Section 2 (WF-I3 & F3) Handover Date to CLP - Site Idling and Delay of Site Progress due to Insufficient Working Areas within Site Boundary near the Auxiliary Building and the MTRC	0 days	NA	NA	162 days	7月19日星期二	2月2日星期四	月19日星期二7	月2日星期四2			0 days		100%
1693	CS2-29142				Watermains (Potable Water Pipe; Fire Service Water; Sprinkler Water)	0 days	NA	NA	15 days	1月9日星期一	1月28日星期六	NA	NA	1685,197	1687,1699SS,1694	-115 days		0%
1694	CS2-PMI-0700		358	700	DC/2018/07 - Notification of Compensation Event:- KD1J & Section 2 (Workfront I3) - Changing in Works Information of FS Water and Sprinkler Water Watermain Layout for FS and Sprinkler Pumping Room	0 days	NA	NA	9 days	1月30日星期一	2月8日星期三	NA	NA	1693		222 days		0%
1695	CS2-29150				Inspection and connection works	2 days	12月13日星期二	12月14日星期三	2 days	2月10日星期四	2月11日星期五	月10日星期四2	月11日星期五2	1687FF+2 days	1696FF+4 days	0 days		100%
1696	CS2-29160				Backfilling and reinstatement works	14 days	12月15日星期四	1月3日星期二	14 days	1月28日星期五	2月16日星期三	月28日星期五1	月16日星期三2	1695FF+4 days	1697FF+4 days,57FF	0 days		100%
1697	CS2-29170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	1月3日星期二	1月3日星期二	14 days	2月5日星期六	2月21日星期一	月5日星期六2	月21日星期一2	1696FF+4 days		0 days		100%
1698	**CS2-29200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**63 days**	**1月9日星期一**	**3月25日星期六**	**NA**	**NA**			**-115 days**		**0%**
1699	CS2-29210				Cable Duct Laying Works (LV Cables 4x5 DN150 uPVC Cable Ducts) ; with Cable Draw Pit Construction LVCP4, LVCP4A, LVCP5, LVCP6, LVCP7	0 days	NA	NA	25 days	1月9日星期一	2月9日星期四	NA	NA	1693SS	1700	-115 days		0%
1700	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	2月10日星期五	2月27日星期一	NA	NA	1699	1701	-115 days		0%
1701	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	2月28日星期二	3月14日星期二	NA	NA	1700	1702	-115 days		0%
1702	CS2-29220				Inspection and connection works	0 days	NA	NA	5 days	3月15日星期三	3月20日星期一	NA	NA	1701	1703	-115 days		0%
1703	CS2-29230				Backfilling and reinstatement works	0 days	NA	NA	5 days	3月21日星期二	3月25日星期六	NA	NA	1702	57FF	-115 days		0%
1704	**CS2-30000**	**SW2**			**Sewerage and utilities in Workfront I4**	**86 days**	**10月11日星期一**	**1月22日星期六**	**531 days**	**6月5日星期六**	**3月18日星期六**	**月5日星期六6**	**NA**		**1661,1881**	**152 days**		**62%**
1705	CS2-PMI-648		295	648	Additional Cleaning Works for Works Area and EVA near Chemical System No.1	0 days	NA	NA	5 days	3月2日星期三	3月7日星期一	月2日星期三3	月7日星期一3			0 days		100%
1706	CS2-30101		337		Unexpected Sewage Overflow Incident	0 days	NA	NA	3 days	6月9日星期四	6月11日星期六	月9日星期四6	月11日星期六6			0 days		100%
1707	**CS2-30100**	**SW2**	**230,238,**		**Construction of Process Pipes CHPSW3; CHDO1**	**86 days**	**10月11日星期一**	**1月22日星期六**	**531 days**	**6月5日星期六**	**3月18日星期六**	**月5日星期六6**	**NA**			**152 days**		**72%**
1708	CS2-PMI-0478		281	478	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional concrete surround for DN900 drainage pipe from MHD28 to MHD28B	0 days	NA	NA	41 days	6月5日星期六	7月24日星期六	月5日星期六6	月24日星期六7	1723	1709	0 days		100%
1709	CS2-PMI-0492		239	492	DC/2018/07 - Notification of Compensation Event:- Section 2, KD1H - Additional temporary plugging works of puddle for SAS Pumping Station	0 days	NA	NA	3 days	8月18日星期三	8月20日星期五	月18日星期三8	月20日星期五8	1708	1724	0 days		100%
1710	CS2-PMI-776		311	776	Additional Cleaning Works near SAS Pumping Station	0 days	NA	NA	7 days	4月14日星期四	4月25日星期一	月14日星期四4	NA			420 days		0%
1711	CS2-PMI-0632			632	Additional Temporary Pumps for MHFB51	0 days	NA	NA	1 day	6月5日星期日	6月6日星期一	月5日星期日6	月6日星期一6	1717	1712	0 days		100%
1712	CS2-PMI-0642			642	Additional Temporary Pumps for MHFB51A Near Sheung Shui Slaughter House	0 days	NA	NA	1 day	6月5日星期日	6月6日星期一	月5日星期日6	月6日星期一6	1711	1713	0 days		100%
1713	CS2-NCE-0334A		334		DC/2018/07 - Notification of Compensation Event:- Section 2 & Workfront I4, F3 - Additional works of pipeline diversion between MHD6 to MHD8	0 days	NA	NA	13 days	6月1日星期三	6月16日星期四	月1日星期三6	月16日星期四6	1712,1717	1714	0 days		100%
1714	CS2-PMI-0674		337	674	DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront I4) and KD1J - Additional Cleaning Works Due to Unexpected Sewage Overflow Incident Occurred on 9-11 June 2022	0 days	NA	NA	3 days	6月9日星期四	6月11日星期六	月9日星期四6	月11日星期六6	1713,1717	1715	0 days		100%
1715	CS2-PMI-0086B		336	0086	DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront I3 & I4) - Additional Works for Removal of Steel Plate from MHFB51 (Night Work)	0 days	NA	NA	1 day	6月15日星期三	6月15日星期三	月15日星期三6	月15日星期三6	1714	1716	0 days		100%
1716	CS2-PMI-0085B		340	0085	DC/2018/07 - Notification of Compensation Event:- Section 2 (Workfront I3 & I4) - Night Works for Benching Rectification and Painting Works from MHFB51 due to Inclement Weather	0 days	NA	NA	1 day	6月20日星期一	6月20日星期一	月20日星期一6	月20日星期一6	1715	1718	0 days		100%
1717	CS2-PMI-0663		308	663	DC/2018/07 - Notification of Compensation Event:- Section2 (Workfront I4) - Additional Hand Trimming Works Due to Obstruction of Concrete Surround of DN300 D.I.Pipe in the Footprint of Laying DN400 Sewage Pipe from Pipeline MHFB52 to MHD6	0 days	NA	NA	27 days	5月29日星期日	6月30日星期四	月29日星期日5	月30日星期四6	1724	1711,1713,1714	0 days		100%
1718	CS2-PMI-0483		230	483	DC/2018/07 - Notification of Compensation Event:- KD1J - Unexpected Leakage of Existing Pump Pit at SSSH, Sewage Overflow at Manhole MH06	0 days	NA	NA	13 days	7月13日星期三	7月27日星期三	月13日星期三7	月27日星期三7	1716	1719	0 days		100%
1719	CS2-PMI-0478		238	478	DC/2018/07 - Notification of Compensation Event:- Section 2 - Additional Manhole Type G1 MHD28C to avoid conflict with the existing cable draw pit and concrete trimming works to allow dia. 900mm storm drain pipe laying works	0 days	NA	NA	18 days	8月6日星期六	8月26日星期五	月6日星期六8	月26日星期五8	1718	1720	0 days		100%
1720	CS2-PMI-0728		400	728	DC/2018/07 - Notification of Compensation Event:- Section 2 (WF-I4) - Temporary Diversion of DN300 Tank Drain near Membrane Facilities Building No. 1	0 days	NA	NA	85 days	8月17日星期三	11月26日星期六	月17日星期三8	月26日星期六11	1719	1733	0 days		100%
1721	CS2-30110				Conduct underground utilities detection and setting out	2 days	10月11日星期一	10月12日星期二	2 days	11月15日星期二	11月16日星期三	月15日星期二11	月16日星期三11		1722	0 days		100%
1722	CS2-30120				Expose and abandon existing electric cable&trial pits	10 days	10月13日星期三	10月25日星期一	0 days	11月16日星期三	11月16日星期三	月16日星期三11	月16日星期三11	1721	1723	0 days		100%
1723	CS2-30130				Installing sheetpiles and ELS works	49 days	10月26日星期二	12月21日星期二	6 days	12月1日星期四	12月7日星期三	月1日星期四12	月7日星期三12	1722	1708,1724	0 days		100%
1724	CS2-PMI-0578A		205	578	DC/2018/07 - Notification of Compensation Event:- Section 2 & KD1J - Unexpected sewerage flow ner MFB no. 1 and auxiliary facilities	0 days	NA	NA	1 day	1月14日星期五	1月14日星期五	月14日星期五1	月14日星期五1	1709,1723	1717	0 days		100%
1725	CS2-30140				Pipelaying works (Process Pipes and Watermains (Fire Service Water; Sprinkler Water, Street Fire Hydrant Water))	13 days	12月22日星期三	1月8日星期六	60 days	12月19日星期一	3月4日星期六	月19日星期一12	NA	1733	1726FF+4 days,1731FF,1732FF	-109 days		0%
1726	CS2-30145				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	3月2日星期四	3月9日星期四	NA	NA	1725FF+4 days	1727FF+4 days	-109 days		0%
1727	CS2-30150				Inspection and connection works	2 days	1月10日星期一	1月11日星期二	5 days	3月9日星期四	3月14日星期二	NA	NA	1726FF+4 days	1728FF+4 days	-109 days		0%
1728	CS2-30160				Backfilling and reinstatement works	10 days	1月12日星期三	1月22日星期六	3 days	3月16日星期四	3月18日星期六	NA	NA	1727FF+4 days	57FF,1729	-109 days		0%
1729	CS2-30170				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	1月22日星期六	1月22日星期六	0 days	3月18日星期六	3月18日星期六	NA	NA	1728		152 days		0%
1730	**CS2-30200**				**Construction of Cable Duct & Cable Draw Pits**	**0 days**	**NA**	**NA**	**41 days**	**11月28日星期一**	**1月17日星期二**	**月28日星期一11**	**NA**			**-10 days**		**0%**
1731	CS2-30210				Cable Ducts Laying Works (LV Cables 3x4 DN150 uPVC Cable Ducts; 2x4xDN200 uPVC CLP Cable Ducts + 2x DN100) ; with Cable Draw Pit Construction (CLPCP1, CLPCP2, LVCP9, LVCP10)	0 days	NA	NA	20 days	12月10日星期六	1月5日星期四	月10日星期六12	NA	1725FF	1732FF	-47 days		0%
1732	CS2-NCE-438		438		Additional Concrete Surround and Steel Plate	0 days	NA	NA	13 days	12月19日星期一	1月5日星期四	月19日星期一12	NA	1725FF,1731FF	1734	-60 days		0%
1733	CS2-PMI-0628			628	Revised Cable Duct and Drawpits for CLP 11kV and HV Works in Portion B of the Site	0 days	NA	NA	15 days	11月28日星期一	12月14日星期三	NA	NA	1720	1725,1734	-44 days		0%
1734	CS2-30220				Inspection and connection works	0 days	NA	NA	5 days	1月6日星期五	1月11日星期三	NA	NA	1732,1733	1735	-60 days		0%
1735	CS2-30230				Backfilling and reinstatement works	0 days	NA	NA	5 days	1月12日星期四	1月17日星期二	NA	NA	1734	57FF	-60 days		0%
1736	**CS3-0000**				**Remaining drainage and utilities (Section 3)**	**511 days**	**8月2日星期一**	**4月24日星期一**	**1159 days**	**8月2日星期一**	**6月18日星期三**	**月2日星期一8**	**NA**		**1898**	**-361 days**		**21%**
1737	**CS3-1000**				**Drainage and utilities in Workfront A3**	**54 days**	**12月13日星期一**	**2月19日星期六**	**89 days**	**8月23日星期二**	**12月7日星期三**	**月23日星期二8**	**NA**			**395 days**		**31%**
1738	CS3-1010				Manhole works for CP30B-MHD14A,CP36,CP36A-15 , MHD14A-MHD15	0 days	NA	NA	28 days	8月23日星期二	9月24日星期六	月23日星期二8	月24日星期六9		1739	0 days		100%
1739	CS3-NCE423		423		Additional manhole works for MHD14B	0 days	NA	NA	21 days	9月26日星期一	10月21日星期五	月26日星期一9	NA	1738	1740	395 days		0%
1740	CS3-1020				Drainage pipes laying works	0 days	NA	NA	14 days	10月22日星期六	11月7日星期一	NA	NA	1739	1741	395 days		0%
1741	CS3-1200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	11月8日星期二	11月15日星期二	NA	NA	1740	1742	395 days		0%
1742	CS3-1300				Inspection and connection works	0 days	NA	NA	2 days	11月16日星期三	11月17日星期四	NA	NA	1741	1743	395 days		0%
1743	CS3-1400				Backfilling and reinstatement works	0 days	NA	NA	10 days	11月18日星期五	11月29日星期二	NA	NA	1742	1744	395 days		0%
1744	CS3-1500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	11月30日星期三	12月7日星期三	NA	NA	1743	58	395 days		0%
1745	**CS3-2000**				**Drainage and utilities in Workfront A5**	**86 days**	**2月4日星期五**	**5月21日星期六**	**159 days**	**2月27日星期一**	**9月8日星期五**	**月27日星期一2**	**NA**	1056,1075		**173 days**		**2%**
1746	CS3-NCE-455		455		Additional hand Trimming Work due to Site Condition near Flume Channel	0 days	NA	NA	1 day	2月27日星期一	2月27日星期一	月27日星期一2	月27日星期一2			0 days		100%
1747	CS3-2100				Drainage Pipes laying works	0 days	NA	NA	30 days	7月7日星期五	8月10日星期四	NA	NA		1748	173 days		0%
1748	CS3-2200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	8月11日星期五	8月18日星期五	NA	NA	1747	1749	173 days		0%
1749	CS3-2300				Inspection and connection works	0 days	NA	NA	7 days	8月19日星期六	8月26日星期六	NA	NA	1748	1750	173 days		0%
1750	CS3-2400				Backfilling and reinstatement works	0 days	NA	NA	10 days	8月28日星期一	9月7日星期四	NA	NA	1749	1751FF+1 day	173 days		0%
1751	CS3-2500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	9月1日星期五	9月8日星期五	NA	NA	1750FF+1 day	58	173 days		0%
1752	**CS3-2000a**				**Drainage and utilities in Workfront A6**	**0 days**	**NA**	**NA**	**131 days**	**12月24日星期二**	**5月28日星期三**	**NA**	**NA**	**1091**		**-342.25 ...**		**0%**
1753	CS3-2100a				Manhole works for MHD05A, MHD06-MHD06A-MHD06B-CP13	0 days	NA	NA	70 days	12月24日星期二	3月18日星期二	NA	NA		1754	-342.25 ...		0%
1754	CS3-2150a				Drainage Pipes and Irrigation Pipes laying works	0 days	NA	NA	30 days	3月18日星期二	4月22日星期二	NA	NA	1753	1755	-342.25 ...		0%
1755	CS3-2200a				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	4月22日星期二	4月30日星期三	NA	NA	1754	1756	-342.25 ...		0%
1756	CS3-2300a				Inspection and connection works	0 days	NA	NA	7 days	4月30日星期三	5月8日星期四	NA	NA	1755	1757	-342.25 ...		0%
1757	CS3-2400a				Backfilling and reinstatement works	0 days	NA	NA	10 days	5月8日星期四	5月20日星期二	NA	NA	1756	1758	-342.25 ...		0%



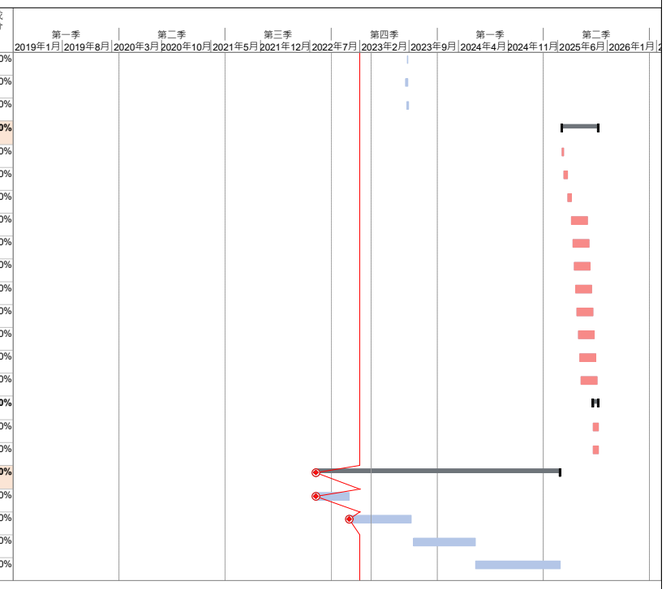
識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1758	CS3-2500a				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	5月20日星期二	5月28日星期三	NA	NA	1757		-342.25 ...		0%
1759	**CS3-3000**				**Drainage and utilities in Workfront C1**	**152 days**	**7月2日星期六**	**12月31日星期六**	**120 days**	**2月3日星期六**	**7月5日星期五**	**NA**	**NA**	1144		**-67.25 d...**		**0%**
1760	CS3-3100				Manhole works for CP32-MHD13, CP35-MHD14	0 days	NA	NA	100 days	2月3日星期六	6月11日星期二	NA	NA		1761FF+20 days	-67.25 d...		0%
1761	CS3-3110				Drainage Pipes laying works	0 days	NA	NA	60 days	4月22日星期一	7月5日星期五	NA	NA	1760FF+20 days		-67.25 d...		0%
1762	CS3-3200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	2月3日星期六	2月15日星期四	NA	NA		1763FF+1 day	41.75 d...		0%
1763	CS3-3300				Inspection and connection works	0 days	NA	NA	2 days	2月14日星期三	2月16日星期五	NA	NA	1762FF+1 day	1764FF+2 days	41.75 d...		0%
1764	CS3-3400				Backfilling and reinstatement works	0 days	NA	NA	10 days	2月3日星期六	2月19日星期一	NA	NA	1763FF+2 days	1765FF+1 day	41.75 d...		0%
1765	CS3-3500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	2月8日星期四	2月20日星期二	NA	NA	1764FF+1 day	58	41.75 d...		0%
1766	**CS3-4000**				**Drainage and utilities in Workfront C2**	**77 days**	**7月2日星期六**	**9月30日星期五**	**45 days**	**7月15日星期一**	**9月5日星期四**	**NA**	**NA**	**1186**		**-120.25 ...**		**0%**
1767	CS3-4100				Manhole works for MHD13A, MHD13B	0 days	NA	NA	25 days	7月15日星期一	8月13日星期二	NA	NA		1768FF+20 days	-120.25 ...		0%
1768	CS3-4110				Drainage Pipes laying works	0 days	NA	NA	20 days	8月13日星期二	9月5日星期四	NA	NA	1767FF+20 days		-120.25 ...		0%
1769	CS3-4200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	7月15日星期一	7月23日星期二	NA	NA		1770FF+1 day	-86.25 d...		0%
1770	CS3-4300				Inspection and connection works	0 days	NA	NA	2 days	7月22日星期一	7月24日星期三	NA	NA	1769FF+1 day	1771FF+2 days	-86.25 d...		0%
1771	CS3-4400				Backfilling and reinstatement works	0 days	NA	NA	10 days	7月15日星期一	7月26日星期五	NA	NA	1770FF+2 days	1772FF+1 day	-86.25 d...		0%
1772	CS3-4500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	7月19日星期五	7月27日星期六	NA	NA	1771FF+1 day	58	-86.25 d...		0%
1773	**CS3-5000**				**Drainage and utilities in Workfront C3**	**219 days**	**5月7日星期六**	**1月31日星期二**	**90 days**	**10月8日星期二**	**1月23日星期四**	**NA**	**NA**	**1204**		**-236 days**		**0%**
1774	CS3-5100				Construction of manhole MHD04-CP11	0 days	NA	NA	40 days	10月8日星期二	11月23日星期六	NA	NA		1775	-236 days		0%
1775	CS3-5110				Drainage Pipes laying works	0 days	NA	NA	40 days	11月25日星期一	1月11日星期六	NA	NA	1774	1776	-236 days		0%
1776	CS3-5200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	1月13日星期一	1月20日星期一	NA	NA	1775	1777FF+1 day	-236 days		0%
1777	CS3-5300				Inspection and connection works	0 days	NA	NA	2 days	1月20日星期一	1月21日星期二	NA	NA	1776FF+1 day	1778FF+1 day	-236 days		0%
1778	CS3-5400				Backfilling and reinstatement works	0 days	NA	NA	15 days	1月6日星期一	1月22日星期三	NA	NA	1777FF+1 day	1779FF+1 day	-236 days		0%
1779	CS3-5500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	1月16日星期四	1月23日星期四	NA	NA	1778FF+1 day	58	-236 days		0%
1780	**CS3-6000**				**Drainage and utilities in Workfront D1**	**91 days**	**6月1日星期三**	**9月17日星期六**	**220 days**	**8月5日星期五**	**5月4日星期四**	**月5日星期五8**	**NA**			**279 days**		**16%**
1781	CS3-NCE-398				Additional work to trim the unforeseen concrete surround	0 days	NA	NA	21 days	8月5日星期五	8月29日星期一	月5日星期五8	月29日星期一8		1782	0 days		100%
1782	CS3-NCE-409				Additional work to expose the thickness of unforeseen concrete surround	0 days	NA	NA	5 days	8月31日星期三	9月5日星期一	月31日星期三8	月5日星期一9	1781	1783	0 days		100%
1783	CS3-NCE-506		506		Additional works of concrete Trimming due to Unforeseen Concrete Surround and Obstruction of Existing Cable Duct near Manhole no. MHD16 near Main Control Room	0 days	NA	NA	12 days	12月28日星期三	1月11日星期三	月28日星期三12	月11日星期三1	1782	1784	0 days		100%
1784	CS3-6100				Manhole works for CP38-MHD16-CP38A,CP31-MHD18-CP57-CP31A	0 days	NA	NA	150 days	8月30日星期二	3月2日星期四	月30日星期二8	NA	1783	1786FF+20 days	279 days		0%
1785	CS3-NCE-502		502		Concrete Trimming Works for Two Uncharted Concrete Blocks near Manhole no. MHD15 in front of Main Control Room	0 days	NA	NA	5 days	2月27日星期一	3月3日星期五	月27日星期一2	月3日星期五3			0 days		100%
1786	CS3-6110				Drainage Pipes laying works	0 days	NA	NA	40 days	2月8日星期三	3月25日星期六	NA	NA	1784FF+20 days	1787	279 days		0%
1787	CS3-6200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	3月27日星期一	4月3日星期一	NA	NA	1786	1788FF+1 day	279 days		0%
1788	CS3-6300				Inspection and connection works	0 days	NA	NA	2 days	4月3日星期一	4月4日星期二	NA	NA	1787FF+1 day	1789	279 days		0%
1789	CS3-6400				Backfilling and reinstatement works	0 days	NA	NA	20 days	4月6日星期四	5月3日星期三	NA	NA	1788	1790FF+1 day	279 days		0%
1790	CS3-6500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	4月26日星期三	5月4日星期四	NA	NA	1789FF+1 day	58	279 days		0%
1791	**CS3-7000**				**Drainage and utilities in Portion D3**	**64 days**	**2月4日星期五**	**4月23日星期六**	**44 days**	**9月23日星期一**	**11月14日星期四**	**NA**	**NA**	1232		**-178 days**		**0%**
1792	CS3-7100				Drainage Pipes laying works	0 days	NA	NA	40 days	9月23日星期一	11月9日星期六	NA	NA		1793FF+1 day	-178 days		0%
1793	CS3-7200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	11月4日星期一	11月11日星期一	NA	NA	1792FF+1 day	1794FF+1 day	-178 days		0%
1794	CS3-7300				Inspection and connection works	0 days	NA	NA	2 days	11月11日星期一	11月12日星期二	NA	NA	1793FF+1 day	1795FF+1 day	-178 days		0%
1795	CS3-7400				Backfilling and reinstatement works	0 days	NA	NA	10 days	11月2日星期六	11月13日星期三	NA	NA	1794FF+1 day	1796FF+1 day	-178 days		0%
1796	CS3-7500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	11月7日星期四	11月14日星期四	NA	NA	1795FF+1 day	58	-178 days		0%
1797	**CS3-8000**				**Drainage and utilities in Portion D4**	**75 days**	**9月1日星期三**	**11月30日星期二**	**438 days**	**9月1日星期三**	**2月23日星期四**	**月1日星期三9**	**NA**			**334 days**		**94%**
1798	CS3-8100				Construction of manhole MHD06-MHD06A-CP13, MHD05A, MHD05, CP09-MHD02	0 days	NA	NA	45 days	9月1日星期三	10月26日星期二	月1日星期三9	月26日星期二10		1799	0 days		100%
1799	CS3-8200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	11月19日星期五	11月26日星期五	月19日星期五11	月26日星期五11	1798	1800FF+1 day	0 days		100%
1800	CS3-8300				Inspection and connection works	0 days	NA	NA	5 days	11月26日星期五	12月1日星期三	月26日星期五11	月1日星期三12	1799FF+1 day	1801FF+1 day	0 days		100%
1801	CS3-8400				Backfilling and reinstatement works	0 days	NA	NA	5 days	11月27日星期六	12月2日星期四	月27日星期六11	月2日星期四12	1800FF+1 day	1802FF+1 day	0 days		100%
1802	CS3-8500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	12月1日星期三	12月8日星期三	月1日星期三12	NA	1801FF+1 day	58	690 days		43%
1803	CS3-NCE-469		469		Additional Drainage works due to Site Condition near SAS Consolidation House	0 days	NA	NA	1 day	2月23日星期四	2月23日星期四	月23日星期四2	月23日星期四2			0 days		100%
1804	**CS3-9000**				**Drainage and utilities in Portion E2**	**86 days**	**9月19日星期一**	**12月31日星期六**	**49 days**	**11月13日星期三**	**1月10日星期五**	**NA**	**NA**	1339		**-225 days**		**0%**
1805	CS3-9100				Manhole works for MHD17E	0 days	NA	NA	15 days	11月13日星期三	11月29日星期五	NA	NA		1806FF+20 days	-225 days		0%
1806	CS3-9110				Drainage Pipes laying works	0 days	NA	NA	15 days	12月6日星期五	12月23日星期一	NA	NA	1805FF+20 days	1807	-225 days		0%
1807	CS3-9200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	12月24日星期二	1月2日星期四	NA	NA	1806	1808FF+1 day	-225 days		0%
1808	CS3-9300				Inspection and connection works	0 days	NA	NA	2 days	1月2日星期四	1月3日星期五	NA	NA	1807FF+1 day	1809	-225 days		0%
1809	CS3-9400				Backfilling and reinstatement works	0 days	NA	NA	5 days	1月4日星期六	1月9日星期四	NA	NA	1808	1810FF+1 day	-225 days		0%
1810	CS3-9500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	1月3日星期五	1月10日星期五	NA	NA	1809FF+1 day	58	-225 days		0%
1811	**CS3-10000**				**Drainage and utilities in Portion E3**	**93 days**	**10月11日星期一**	**1月31日星期一**	**93 days**	**5月22日星期三**	**9月9日星期一**	**NA**	**NA**	**1355**		**-124 days**		**0%**
1812	CS3-10100				Construction of manhole MHD17, MHD17D, MHD17A, CP55 and watermains	0 days	NA	NA	67 days	5月22日星期三	8月9日星期五	NA	NA		1813	-124 days		0%
1813	CS3-10200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	8月10日星期六	8月17日星期六	NA	NA	1812	1814	-124 days		0%
1814	CS3-10300				Inspection and connection works	0 days	NA	NA	2 days	8月19日星期一	8月20日星期二	NA	NA	1813	1815	-124 days		0%
1815	CS3-10400				Backfilling and reinstatement works	0 days	NA	NA	10 days	8月21日星期三	8月31日星期六	NA	NA	1814	1816	-124 days		0%
1816	CS3-10500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	9月2日星期一	9月9日星期一	NA	NA	1815	58FF	-124 days		0%
1817	**CS3-11000**				**Drainage and utilities in Portion E4**	**75 days**	**8月2日星期一**	**10月30日星期六**	**75 days**	**8月2日星期一**	**10月30日星期六**	**月2日星期一8**	**月30日星期六10**			**0 days**		**100%**
1818	CS3-11100				Construction of manhole MHD20B, MHD17D and watermains	0 days	NA	NA	49 days	8月2日星期一	9月28日星期二	月2日星期一8	月28日星期二9		1819	0 days		100%
1819	CS3-11200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	9月29日星期三	10月7日星期四	月29日星期三9	月7日星期四10	1818	1820	0 days		100%
1820	CS3-11300				Inspection and connection works	0 days	NA	NA	2 days	10月8日星期五	10月9日星期六	月8日星期五10	月9日星期六10	1819	1821	0 days		100%
1821	CS3-11400				Backfilling and reinstatement works	0 days	NA	NA	10 days	10月11日星期一	10月22日星期五	月11日星期一10	月22日星期五10	1820	1822	0 days		100%
1822	CS3-11500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	10月23日星期六	10月30日星期六	月23日星期六10	月30日星期六10	1821	58	0 days		100%
1823	**CS3-12000**				**Drainage and utilities in Workfront E5**	**100 days**	**9月10日星期六**	**1月11日星期三**	**80 days**	**4月15日星期一**	**7月20日星期六**	**NA**	**NA**	1384		**-81 days**		**0%**
1824	CS3-12100				Manhole works for CP06, MHD03, MHD03A	0 days	NA	NA	60 days	4月15日星期一	6月26日星期三	NA	NA		1826FF+1 day,1825FF+20 days	-81 days		0%
1825	CS3-12110				Drainage Pipes laying works	0 days	NA	NA	40 days	6月3日星期一	7月20日星期六	NA	NA	1824FF+20 days		-81 days		0%



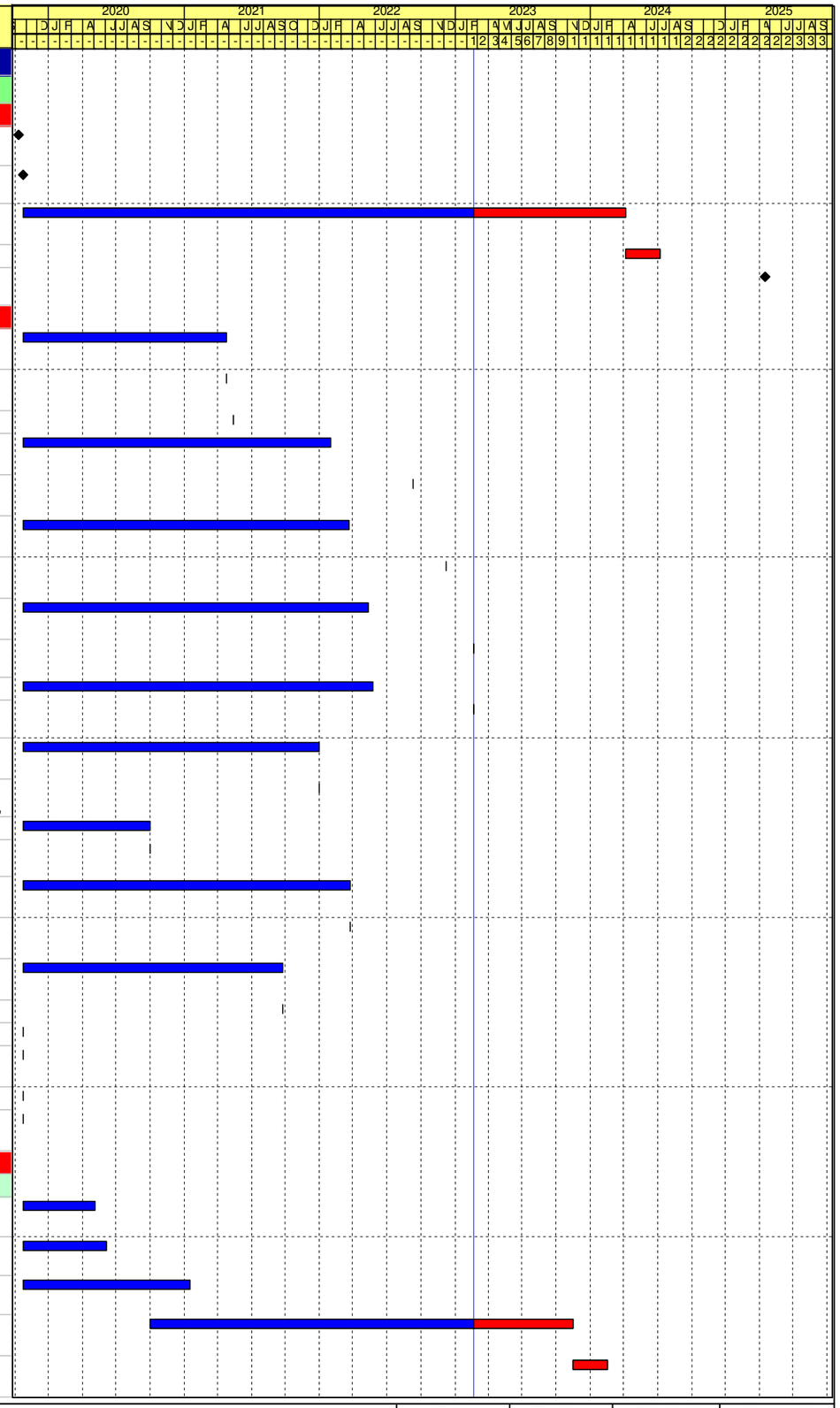
識別碼	Activity ID	Key Date	NCE/(EW)	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1826	CS3-12200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	6月20日星期四	6月27日星期四	NA	NA	1824FF+1 day	1827FF+1 day	-65 days		0%
1827	CS3-12300				Inspection and connection works	0 days	NA	NA	2 days	6月27日星期四	6月28日星期五	NA	NA	1826FF+1 day	1828FF+1 day	-65 days		0%
1828	CS3-12400				Backfilling and reinstatement works	0 days	NA	NA	10 days	6月19日星期三	6月29日星期六	NA	NA	1827FF+1 day	1829FF+1 day	-65 days		0%
1829	CS3-12500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	6月24日星期一	7月2日星期二	NA	NA	1828FF+1 day	58	-65 days		0%
1830	**CS3-21000**				**Drainage and utilities in Workfront E6**	**0 days**	**NA**	**NA**	**50 days**	**10月24日星期二**	**12月20日星期三**	**NA**	**NA**	**1405**		**88 days**		**0%**
1831	CS3-21100				Manhole works for MHD17B and MHD17C	0 days	NA	NA	30 days	10月24日星期二	11月27日星期一	NA	NA		1832FF+20 days,1833FF+1 day	88 days		0%
1832	CS3-21200				Drainage Pipes laying works	0 days	NA	NA	20 days	11月28日星期二	12月20日星期三	NA	NA	1831FF+20 days		88 days		0%
1833	CS3-21300				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	11月21日星期二	11月28日星期二	NA	NA	1831FF+1 day	1834FF+1 day	104 days		0%
1834	CS3-21400				Inspection and connection works	0 days	NA	NA	2 days	11月28日星期二	11月29日星期三	NA	NA	1833FF+1 day	1835FF+1 day	104 days		0%
1835	CS3-21500				Backfilling and reinstatement works	0 days	NA	NA	10 days	11月20日星期一	11月30日星期四	NA	NA	1834FF+1 day	1836FF+1 day	104 days		0%
1836	CS3-21600				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	11月24日星期五	12月1日星期五	NA	NA	1835FF+1 day	58	104 days		0%
1837	**CS3-13000**				**Drainage and utilities in Workfront F2**	**48 days**	**2月4日星期五**	**3月31日星期四**	**100 days**	**3月1日星期二**	**7月4日星期一**	**月1日星期二3**	**月4日星期一7**		**1845SS**	**0 days**		**100%**
1838	CS3-13100				Manhole works for MHD03, MHD30	0 days	NA	NA	30 days	3月1日星期二	4月4日星期一	月1日星期二3	月4日星期一4		1839FF+10 days	0 days		100%
1839	CS3-13110				Drainage Pipes laying works	0 days	NA	NA	25 days	4月6日星期三	5月10日星期二	月6日星期三4	月10日星期二5	1838FF+10 days	1840FF+10 days	0 days		100%
1840	CS3-13120				Cleansing Pipe laying works	0 days	NA	NA	10 days	5月11日星期三	5月21日星期六	月11日星期三5	月21日星期六5	1839FF+10 days	1841	0 days		100%
1841	CS3-13200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	2 days	5月23日星期一	5月24日星期二	月23日星期一5	月24日星期二5	1840	1842FF+1 day	0 days		100%
1842	CS3-13300				Inspection and connection works	0 days	NA	NA	25 days	5月25日星期三	6月23日星期四	月25日星期三5	月23日星期四6	1841FF+1 day	1843FF+1 day	0 days		100%
1843	CS3-13400				Backfilling and reinstatement works	0 days	NA	NA	7 days	6月24日星期五	7月2日星期六	月24日星期五6	月2日星期六7	1842FF+1 day	1844FF+1 day	0 days		100%
1844	CS3-13500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	6月25日星期六	7月4日星期一	月25日星期六6	月4日星期一7	1843FF+1 day	58	0 days		100%
1845	**CS3-14000**				**Drainage and utilities in Workfront F3**	**125 days**	**9月1日星期三**	**1月31日星期一**	**298 days**	**3月1日星期二**	**3月2日星期四**	**月1日星期二3**	**NA**	**1837SS**		**328 days**		**93%**
1846	CS3-14100				Construction of manhole MHD01, MHD01A	0 days	NA	NA	30 days	3月1日星期二	4月4日星期一	月1日星期二3	月4日星期一4		1847	0 days		100%
1847	CS3-14150				Cleansing Pipe ; Irrigation Pipe laying works	0 days	NA	NA	25 days	4月6日星期三	5月10日星期二	月6日星期三4	月10日星期二5	1846	1848	0 days		100%
1848	CS3-14200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	10 days	5月11日星期三	5月21日星期六	月11日星期三5	月21日星期六5	1847	1849	0 days		100%
1849	CS3-14300				Inspection and connection works	0 days	NA	NA	2 days	5月23日星期一	5月24日星期二	月23日星期一5	月24日星期二5	1848	1850	0 days		100%
1850	CS3-14400				Backfilling and reinstatement works	0 days	NA	NA	25 days	5月25日星期三	6月23日星期四	月25日星期三5	月23日星期四6	1849	1851	0 days		100%
1851	CS3-14500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	6月24日星期五	7月2日星期六	月24日星期五6	月2日星期六7	1850	58	0 days		100%
1852	CS3-NCE-503		503		Additional Drainage Demolition Works near SAS Consolidation House and Compressor House	0 days	NA	NA	7 days	2月23日星期四	3月2日星期四	月23日星期四2	NA			328 days		0%
1853	**CS3-15000**				**Drainage and utilities in Workfront G2**	**118 days**	**9月1日星期三**	**1月22日星期六**	**118 days**	**9月1日星期三**	**1月22日星期六**	**月1日星期三9**	**月22日星期六1**			**0 days**		**100%**
1854	CS3-15100				Construction of manhole MH4A, MH2	0 days	NA	NA	85 days	9月1日星期三	12月11日星期六	月1日星期三9	月11日星期六12		1855	0 days		100%
1855	CS3-15150				Drainage Pipes laying works	0 days	NA	NA	7 days	12月13日星期一	12月20日星期一	月13日星期一12	月20日星期一12	1854	1856	0 days		100%
1856	CS3-15200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	12月21日星期二	12月30日星期四	月21日星期二12	月30日星期四12	1855	1857	0 days		100%
1857	CS3-15300				Inspection and connection works	0 days	NA	NA	2 days	12月31日星期五	1月3日星期一	月31日星期五12	月3日星期一1	1856	1858	0 days		100%
1858	CS3-15400				Backfilling and reinstatement works	0 days	NA	NA	10 days	1月4日星期二	1月14日星期五	月4日星期二1	月14日星期五1	1857	1859	0 days		100%
1859	CS3-15500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	1月15日星期六	1月22日星期六	月15日星期六1	月22日星期六1	1858	58	0 days		100%
1860	**CS3-16000**				**Drainage and utilities in Workfront G3**	**125 days**	**9月1日星期三**	**1月31日星期一**	**125 days**	**1月24日星期五**	**6月18日星期三**	**NA**	**NA**	**1541**		**-361 days**		**0%**
1861	CS3-16100				Construction of manhole MH1-MH2, MHSA1B	0 days	NA	NA	92 days	1月24日星期五	5月10日星期六	NA	NA		1862	-361 days		0%
1862	CS3-16150				Drainage Pipes laying works	0 days	NA	NA	7 days	5月12日星期一	5月19日星期一	NA	NA	1861	1863	-361 days		0%
1863	CS3-16200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	5月20日星期二	5月27日星期二	NA	NA	1862	1864	-361 days		0%
1864	CS3-16300				Inspection and connection works	0 days	NA	NA	2 days	5月28日星期三	5月29日星期四	NA	NA	1863	1865	-361 days		0%
1865	CS3-16400				Backfilling and reinstatement works	0 days	NA	NA	10 days	5月30日星期五	6月10日星期二	NA	NA	1864	1866	-361 days		0%
1866	CS3-16500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	6月11日星期三	6月18日星期三	NA	NA	1865	58	-361 days		0%
1867	**CS3-17000**				**Drainage and utilities in Workfront G6**	**158 days**	**3月21日星期一**	**9月30日星期五**	**138 days**	**3月2日星期六**	**8月19日星期一**	**NA**	**NA**	**1607**		**-106 days**		**0%**
1868	CS3-17100				Manhole works for MHD28, MHD19A, CP42-CP43-MHD19, MHD20A	0 days	NA	NA	108 days	3月2日星期六	7月15日星期一	NA	NA		1869FF+20 days	-106 days		0%
1869	CS3-17110				Drainage Pipes laying works	0 days	NA	NA	80 days	5月3日星期五	8月7日星期三	NA	NA	1868FF+20 days	1870	-106 days		0%
1870	CS3-17200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	8月8日星期四	8月15日星期四	NA	NA	1869	1871FF+1 day	-106 days		0%
1871	CS3-17300				Inspection and connection works	0 days	NA	NA	2 days	8月15日星期四	8月16日星期五	NA	NA	1870FF+1 day	1872FF+1 day	-106 days		0%
1872	CS3-17400				Backfilling and reinstatement works	0 days	NA	NA	10 days	8月7日星期三	8月17日星期六	NA	NA	1871FF+1 day	1873FF+1 day	-106 days		0%
1873	CS3-17500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	8月12日星期一	8月19日星期一	NA	NA	1872FF+1 day	58	-106 days		0%
1874	**CS3-18000**				**Drainage and utilities in Workfront I1**	**88 days**	**1月4日星期三**	**4月24日星期一**	**72 days**	**7月12日星期三**	**10月5日星期四**	**NA**	**NA**	**1881**		**152 days**		**0%**
1875	CS3-18100				Manhole works for MHD11-CP26	0 days	NA	NA	35 days	7月12日星期三	8月21日星期一	NA	NA		1876FF+20 days	152 days		0%
1876	CS3-18110				Drainage Pipes laying works	0 days	NA	NA	35 days	8月4日星期五	9月13日星期三	NA	NA	1875FF+20 days	1877	152 days		0%
1877	CS3-18200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	14 days	9月14日星期四	9月29日星期五	NA	NA	1876	1878FF+1 day	152 days		0%
1878	CS3-18300				Inspection and connection works	0 days	NA	NA	2 days	9月29日星期五	10月3日星期二	NA	NA	1877FF+1 day	1879FF+1 day	152 days		0%
1879	CS3-18400				Backfilling and reinstatement works	0 days	NA	NA	25 days	9月4日星期一	10月4日星期三	NA	NA	1878FF+1 day	1880FF+1 day	152 days		0%
1880	CS3-18500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	9月26日星期二	10月5日星期四	NA	NA	1879FF+1 day	58	152 days		0%
1881	**CS3-19000**				**Drainage and utilities in Workfront I2**	**92 days**	**9月13日星期二**	**1月3日星期二**	**90 days**	**3月20日星期一**	**7月11日星期二**	**NA**	**NA**	**1704**	**1874**	**152 days**		**0%**
1882	CS3-19100				Manhole works for MHD08-MHD09-MHD11, MHD29-MHD29A-CP20, CP19A-CP19-MHD08	0 days	NA	NA	40 days	3月20日星期一	5月10日星期三	NA	NA		1883FF+20 days	152 days		0%
1883	CS3-19110				Drainage Pipes laying works	0 days	NA	NA	40 days	4月17日星期一	6月3日星期六	NA	NA	1882FF+20 days	1884FF+20 days	152 days		0%
1884	CS3-19120				Cleansing Pipes; Irrigation Pipes laying works	0 days	NA	NA	40 days	5月11日星期四	6月28日星期三	NA	NA	1883FF+20 days	1885	152 days		0%
1885	CS3-19200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	6月29日星期四	7月7日星期五	NA	NA	1884	1886FF+1 day	152 days		0%
1886	CS3-19300				Inspection and connection works	0 days	NA	NA	2 days	7月7日星期五	7月8日星期六	NA	NA	1885FF+1 day	1887FF+1 day	152 days		0%
1887	CS3-19400				Backfilling and reinstatement works	0 days	NA	NA	10 days	6月28日星期三	7月10日星期一	NA	NA	1886FF+1 day	1888FF+1 day	152 days		0%
1888	CS3-19500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	7月4日星期二	7月11日星期二	NA	NA	1887FF+1 day	58	152 days		0%
1889	**CS3-20000**				**Drainage and utilities in Workfront I3**	**128 days**	**8月1日星期一**	**1月3日星期二**	**125 days**	**3月27日星期一**	**8月28日星期一**	**NA**	**NA**	**1672**		**183 days**		**0%**
1890	CS3-20100				Manhole works for CP18-MHD28B-MHD28-CP01	0 days	NA	NA	75 days	3月27日星期一	6月29日星期四	NA	NA		1891FF+20 days	183 days		0%
1891	CS3-20110				Drainage Pipes laying works	0 days	NA	NA	50 days	5月24日星期三	7月24日星期一	NA	NA	1890FF+20 days	1892FF+20 days	183 days		0%
1892	CS3-20120				Cleansing Pipes; Irrigation Pipes laying works	0 days	NA	NA	50 days	6月17日星期六	8月16日星期三	NA	NA	1891FF+20 days	1893	183 days		0%
1893	CS3-20200				Pipe testing (CCTV and Pressure Test)	0 days	NA	NA	7 days	8月17日星期四	8月24日星期四	NA	NA	1892	1894FF+1 day	183 days		0%



識別碼	Activity ID	Key Date	NCE/(EW	PMI/(CE)	Task Name	比較基準工期	比較基準開始時間	比較基準完成時間	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk All	完成百分比
1894	CS3-20300				Inspection and connection works	0 days	NA	NA	2 days	8月24日星期四	8月25日星期五		NA	NA	1893FF+1 day	1895FF+1 day	183 days		0%
1895	CS3-20400				Backfilling and reinstatement works	0 days	NA	NA	10 days	8月16日星期三	8月26日星期六		NA	NA	1894FF+1 day	1896FF+1 day	183 days		0%
1896	CS3-20500				Liaison and handover to DSD/ST1 and DSD/BCM	0 days	NA	NA	7 days	8月21日星期一	8月28日星期一		NA	NA	1895FF+1 day	58	183 days		0%
1897	**CRW-0000**				**Road Works**	**0 days**	**NA**	**NA**	**135 days**	**6月19日星期四**	**11月22日星期六**		**NA**	**NA**			**-361 days**		**0%**
1898	CRW-1000				Pre-construction surveying	0 days	NA	NA	7 days	6月19日星期四	6月26日星期四		NA	NA	1736	1899	-361 days		0%
1899	CRW-1100				Joint inspection on horizontal and vertical alignment	0 days	NA	NA	14 days	6月27日星期五	7月12日星期六		NA	NA	1898	1900	-361 days		0%
1900	CRW-1200				Confirmation by Consultant	0 days	NA	NA	14 days	7月14日星期一	7月29日星期二		NA	NA	1899	1901	-361 days		0%
1901	CRW-1300				Laying of sub-base	0 days	NA	NA	60 days	7月30日星期三	10月7日星期二		NA	NA	1900	1902SS+5 days	-361 days		0%
1902	CRW-1400				Laying of Road Base	0 days	NA	NA	60 days	8月5日星期二	10月13日星期一		NA	NA	1901SS+5 days	1903SS+5 days	-361 days		0%
1903	CRW-1500				Laying of Concrete Binder Course	0 days	NA	NA	60 days	8月11日星期一	10月18日星期六		NA	NA	1902SS+5 days	1904SS+5 days	-361 days		0%
1904	CRW-1600				Laying of Concrete Wearing Course	0 days	NA	NA	60 days	8月16日星期六	10月24日星期五		NA	NA	1903SS+5 days	1905SS+5 days	-361 days		0%
1905	CRW-1700				Kerb construction	0 days	NA	NA	60 days	8月22日星期五	10月30日星期四		NA	NA	1904SS+5 days	1906SS+5 days,1909	-361 days		0%
1906	CRW-1800				Finish Road Service Pavement	0 days	NA	NA	60 days	8月28日星期四	11月5日星期三		NA	NA	1905SS+5 days	1907SS+5 days,58	-356 days		0%
1907	CRW-1900				Painting of Road Markings	0 days	NA	NA	60 days	9月3日星期三	11月11日星期二		NA	NA	1906SS+5 days	1908SS+5 days,58	-356 days		0%
1908	CRW-2000				Footpath Road Pavement	0 days	NA	NA	60 days	9月9日星期二	11月17日星期一		NA	NA	1907SS+5 days	58	-356 days		0%
1909	CRW-2100				**Signages**	**0 days**	**NA**	**NA**	**20 days**	**10月31日星期五**	**11月22日星期六**		**NA**	**NA**	**1905**		**-361 days**		**0%**
1910	CRW-2110				Signages installations	0 days	NA	NA	20 days	10月31日星期五	11月22日星期六		NA	NA		58	-361 days		0%
1911	CRW-2120				Road Lighting Works	0 days	NA	NA	20 days	10月31日星期五	11月22日星期六		NA	NA		58	-361 days		0%
1912	**CLW-0000**	*			**Landscaping Works**	**855 days**	**7月27日星期三**	**6月11日星期三**	**862 days**	**7月27日星期三**	**6月11日星期三**		**NA**	**NA**	**16**		**90 days**		**0%**
1913	CLW-1000	SW3			Irrigation System	120 days	7月27日星期三	12月16日星期五	120 days	7月27日星期三	12月16日星期五		NA	NA		1914	94 days		0%
1914	CLW-2000	SW3			Hard Landscaping Works	214 days	12月17日星期六	9月8日星期五	215 days	12月17日星期六	9月9日星期六		NA	NA	1913	58FF,1915	94 days	5	0%
1915	CLW-3000	SW3			Soft Landscaping Works	214 days	9月9日星期六	6月11日星期二	213 days	9月19日星期二	6月11日星期二		NA	NA	1914	1916,58FF	87 days	5	0%
1916	CLW-4000	DLP			Establishment Works (365 days)	365 days	6月12日星期三	6月11日星期三	365 days	6月12日星期三	6月11日星期三		NA	NA	1915,163	59FF,60FF	105 days	5	0%



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
SWH - Main Works Stage 1 Sidestream Treatment Facilities & E&M Work		2015	11-Oct-19 A	16-Apr-25	31-Oct-21	16-Apr-25	0		
Contract Data		2015	11-Oct-19 A	16-Apr-25	13-May-22	16-Apr-25	0		
Starting Date & Completion Date		2015	11-Oct-19 A	16-Apr-25	13-May-22	16-Apr-25	0		
CD1000	Contract Date (LOA)	0	11-Oct-19 A		13-May-22				CD1010, S1P1000,
CD1010	Starting Date	0	23-Oct-19 A		13-May-22			CD1000	S1D1040, AD1050,
CD1020	Whole Contract Period (1626 days from starting date)	1626	23-Oct-19 A	04-Apr-24	21-Feb-23	04-Apr-24	0	CD1010	CD1040, CD1030
CD1030	Extension of Time Granted (Total 94.5days)	95	05-Apr-24	08-Jul-24*	05-Apr-24	08-Jul-24	0	CD1020	CD1040
CD1040	Completion Date for the whole of the Works	0		16-Apr-25		16-Apr-25	0	CD1020, CD1010,	
Access Date		1434	23-Oct-19 A	21-Feb-23	13-May-22	16-Apr-25	785		
AD1000	Portion C-1A (within 480 to 550 days from starting date)	550	23-Oct-19 A	24-Apr-21 A	30-Oct-22	30-Oct-22		CD1010	AD1010
AD1010	Planned Access Date for Portion C-1A (Partial Access)	1	24-Apr-21 A	24-Apr-21 A	30-Oct-22	30-Oct-22		CD1010, AD1000	PL1470, S4C1010
AD1020	Planned Access Date for Portion C-1A (Access for Remaining Area)	1	12-May-21 A	12-May-21 A	30-Oct-22	30-Oct-22			S4C1010
AD1030	Portion C-2A (within 705 to 795 days from starting date) (SS by NCE-NCE-288, within 705 to 831 days from starting date)	831	23-Oct-19 A	30-Jan-22 A	16-Apr-25	16-Apr-25		CD1010	AD1040
AD1040	Planned Access Date for Portion C-2A	1	09-Sep-22 A	09-Sep-22 A	16-Apr-25	16-Apr-25		CD1010, AD1030	
AD1050	Portion C-2B (within 765 to 855 days from starting date) (SS by NCE-NCE-286, within 765 to 880 days from starting date)	880	23-Oct-19 A	20-Mar-22 A	30-Sep-22	30-Sep-22		CD1010	AD1060
AD1060	Planned Access Date for Portion C-2B	1	07-Dec-22 A	07-Dec-22 A	30-Sep-22	30-Sep-22		CD1010, AD1050	S5CHPC1020
AD1070	Portion C-2C (within 715 to 805 days from starting date) (SS by NCE-NCE-287, within 715 to 934 days from starting date)	934	23-Oct-19 A	13-May-22 A	13-May-22	13-May-22		CD1010	AD1080
AD1080	Planned Access Date for Portion C2-C	1	21-Feb-23	21-Feb-23*	13-May-22	13-May-22	-284	CD1010, AD1070	S5DIGC1040, S5DIGC1210,
AD1090	Portion C-2D (within 825 to 945 days from starting date)	945	23-Oct-19 A	24-May-22 A	24-May-22	24-May-22		CD1010	AD1100
AD1100	Planned Access Date for Portion C-2D	1	21-Feb-23	21-Feb-23*	24-May-22	24-May-22	-273	AD1090	S5BIOC1020, S5BIOC1030,
AD1110	Portion C-3 (within 615 to 705 days from starting date) (SS by NCE-NCE-273, within 615 to 815 days from starting date)	815	23-Oct-19 A	31-Dec-21 A	09-Aug-22	09-Aug-22		CD1010	AD1120
AD1120	Planned Access Date for Portion C-3 (SS by NCE-NCE-273)	1	31-Dec-21 A	31-Dec-21 A	09-Aug-22	09-Aug-22		AD1110, S2D1110	KD1060, S5WS2C1000,
AD1130	Portion B-1 (within 285 to 345 days from starting date)	345	23-Oct-19 A	30-Sep-20 A	04-Jan-23	04-Jan-23		CD1010	AD1140
AD1140	Planned Access Date for Portion B-1	1	30-Sep-20 A	30-Sep-20 A	04-Jan-23	04-Jan-23		AD1130	KD1030, S3C1020,
AD1150	Portion B-2a (within 615 to 705 days from starting date) (SS by NCE-NCE-219, within 771 to 891 days from starting date)	891	23-Oct-19 A	23-Mar-22 A	25-Dec-22	25-Dec-22		CD1010	AD1160
AD1160	Planned Access Date for Portion B-2a (SS by NCE-NCE-219)	1	23-Mar-22 A	23-Mar-22 A	25-Dec-22	25-Dec-22		AD1150	S5SASC1010, S5SASC1000
AD1170	Portion B-2b (within 615 to 705 days from starting date) (SS by NCE-NCE-219)	705	23-Oct-19 A	24-Sep-21 A	16-Apr-25	16-Apr-25			
AD1180	Planned Access Date for Portion B-2b (SS by NCE-NCE-219)	1	24-Sep-21 A	24-Sep-21 A	16-Apr-25	16-Apr-25			
AD1190	Works Area WA1-B (starting date)	1	23-Oct-19 A	23-Oct-19 A	18-Oct-22	18-Oct-22		CD1010	AD1200
AD1200	Planned Access Date for Works Area WA1-B	1	23-Oct-19 A	23-Oct-19 A	18-Oct-22	18-Oct-22		CD1010, AD1190	PL1000, PL1020
AD1210	Works Area WA3 (starting date)	1	23-Oct-19 A	23-Oct-19 A	01-Dec-23	01-Dec-23		CD1010	AD1220
AD1220	Planned Access Date for Works Area WA3	1	23-Oct-19 A	23-Oct-19 A	01-Dec-23	01-Dec-23		CD1010, AD1210	PL1000, PL1030
Key Dates		1649	23-Oct-19 A	27-Apr-24	18-Feb-23	16-Apr-25	354		
Contractual Completion (Include Implemented CE)		1579	23-Oct-19 A	17-Feb-24	18-Feb-23	16-Apr-25	425		
KD1000	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	18-Feb-23	18-Feb-23		CD1010, S1D1040,	CD1040, S4P1040
KD1010	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	16-Apr-25	16-Apr-25		CD1010, S2D1080,	KD1020
KD1020	KD2B Submission of Remaining Civil Requirement Dwgs, Elec. Schematic Dwgs of SD Bldg, SD & DC, CHP Bldg, etc.	461	23-Oct-19 A	16-Jan-21 A	16-Apr-25	16-Apr-25		CD1010, S2D1120,	SC21110
KD1030	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-Feb-23	14-Nov-23	0	AD1140	KD1040
KD1040	Extension of Time Granted for KD3A (Total 94.5days)	95	15-Nov-23	17-Feb-24	15-Nov-23	17-Feb-24	0	KD1030	SC31110, KD1050



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File Name: DE/2018/03 RP R31
Layout: DE1803 RP (Feb 2023) - WBS
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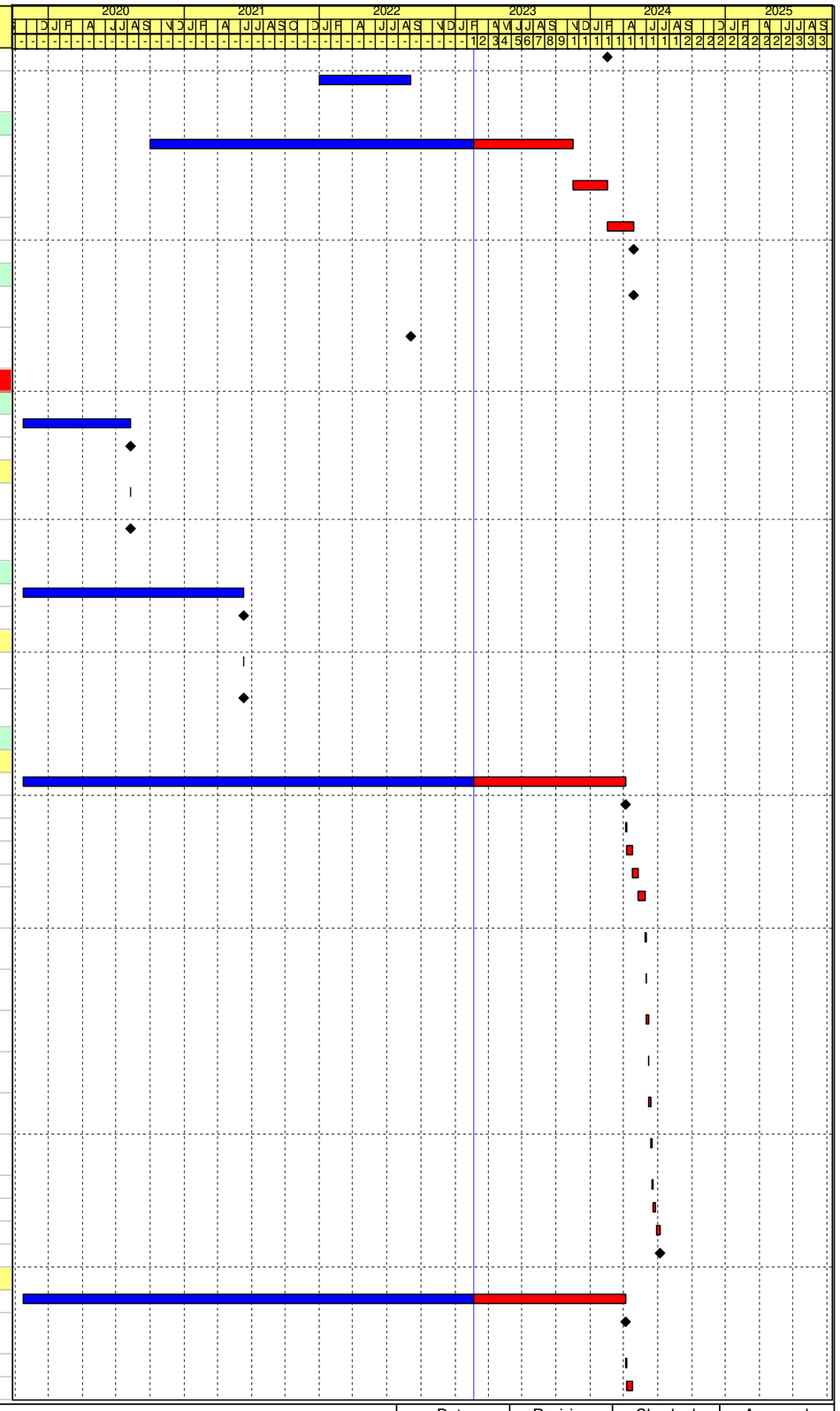
Remaining Work
Critical Activity
Milestone
Actual Progress

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 Feb 2023

Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
KD1050	Revised Completion Date for KD3A	0		17-Feb-24*		17-Feb-24	0	KD1040	
KD1060	KD5A - Completion of BS Fitting at CLP Sub-Station at Workshop No.2 (245d after Portion C-3 Access)(Impacted by NCE-273)	246	31-Dec-21 A	02-Sep-22 A	16-Apr-25	16-Apr-25		AD1120, S5WS2C1010	
Expected Completion (Include Non-implemented CE)		1254	30-Sep-20 A	27-Apr-24	21-Feb-23	27-Apr-24	0		
KD1030-1	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-Feb-23	14-Nov-23	0	AD1140	KD1040-1
KD1040-1	Extension of Time Granted for KD3A (Total 94.5days)	95	15-Nov-23	17-Feb-24	15-Nov-23	17-Feb-24	0	KD1030-1	SC31110, KD1045
KD1045	Extension of Time for KD3A - Non-implemented (Total 70.5days)	71	17-Feb-24	27-Apr-24	17-Feb-24	27-Apr-24	0	KD1040-1	KD1050-1
KD1050-1	Expected Completion Date for KD3A	0		27-Apr-24*		27-Apr-24	0	KD1045	
Planned Completion		572	02-Sep-22 A	27-Apr-24	17-Feb-24	16-Apr-25	354		
KD1050-2	Planned Completion Date for KD3A	0		27-Apr-24*		17-Feb-24	-71	S3T1230	SC31110
KD1060-1	Planned Completion Date for KD5A	0		02-Sep-22 A		16-Apr-25		AD1120, S5WS2C1010	
Completion Date		2003	23-Oct-19 A	16-Apr-25	21-Feb-23	16-Apr-25	0		
Section 1 - Complete All Design at UV System No.1 & EP Station No. 1		312	23-Oct-19 A	08-Aug-20 A	16-Apr-25	16-Apr-25			
SC11000	Contract Duration of Section 1	291	23-Oct-19 A	08-Aug-20 A	16-Apr-25	16-Apr-25		CD1010	SC11100
SC11100	Completion date - Section 1 (290 days after starting date)	0		08-Aug-20 A		16-Apr-25		SC11000	SC11120
Time Risk Allowance and Planned Completion		1	08-Aug-20 A	08-Aug-20 A	16-Apr-25	16-Apr-25			
SC11110	Time Risk Allowance for Section 1	1	08-Aug-20 A	08-Aug-20 A	16-Apr-25	16-Apr-25		S1P1000, S1P1040,	SC11120
SC11120	Planned Completion for Section 1	0		08-Aug-20 A		16-Apr-25		SC11110, SC11100	CD1040
Section 2 - Complete All Designs (exclude Sec. 1 & 3)		632	23-Oct-19 A	11-Jun-21 A	16-Apr-25	16-Apr-25			
SC21000	Contract Duration of Section 2	601	23-Oct-19 A	11-Jun-21 A	16-Apr-25	16-Apr-25		CD1010	SC21100
SC21100	Completion date - Section 2 (600 days after starting date)	0		11-Jun-21 A		16-Apr-25		SC21000	SC21120
Time Risk Allowance and Planned Completion		9	11-Jun-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25			
SC21110	Time Risk Allowance for Section 2	6	11-Jun-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2P1000, S2P1010,	SC21120
SC21120	Planned Completion for Section 2	0		11-Jun-21 A		16-Apr-25		SC21110, SC21100,	CD1040
Section 3 - Complete Design, Construction & T&C for Sidestream Facilities		2003	23-Oct-19 A	16-Apr-25	21-Feb-23	16-Apr-25	0		
Contractual Completion (Include Implemented CE)		1721	23-Oct-19 A	08-Jul-24	21-Feb-23	08-Jul-24	0		
SC31000	Contract Duration of Section 3	1626	23-Oct-19 A	04-Apr-24	21-Feb-23	04-Apr-24	0		SC31001
SC31001	Completion date - Section 3 (1625 days after starting date)	0		04-Apr-24*		04-Apr-24	0	SC31000	SC31002
SC31002	NICE-CNE-0248 - Inclement Weather (May 2021) - 5days (Implemented)	5	05-Apr-24	09-Apr-24	05-Apr-24	09-Apr-24	0	SC31001	SC31003
SC31003	NICE-CNE-0256 Inclement Weather (June 2021) - 14.5days (Implemented)	15	10-Apr-24	24-Apr-24	10-Apr-24	24-Apr-24	0	SC31002	SC31005
SC31005	NICE-CNE-0264 Inclement Weather (July 2021) - 15days (Implemented)	15	24-Apr-24	09-May-24	24-Apr-24	09-May-24	0	SC31003	SC31006
SC31006	NICE-CNE-0292 Inclement Weather (August 2021) - 19days (Implemented)	19	09-May-24	28-May-24	09-May-24	28-May-24	0	SC31005	SC31007
SC31007	NICE-CNE-0293 Inclement Weather (September 2021) - 3.5days (Implemented)	4	28-May-24	31-May-24	28-May-24	31-May-24	0	SC31006	SC31010
SC31010	NICE-CNE-0313 Inclement Weather (November 2021) - 0.5days (Implemented)	1	01-Jun-24	01-Jun-24	01-Jun-24	01-Jun-24	0	SC31007	SC31011
SC31011	NICE-CNE-0343 Inclement Weather (December 2021) - 4days (Implemented)	4	01-Jun-24	05-Jun-24	01-Jun-24	05-Jun-24	0	SC31010	SC31012
SC31012	NICE-CNE-0344 Inclement Weather (January 2022) - 0.5days (Implemented)	1	05-Jun-24	05-Jun-24	05-Jun-24	05-Jun-24	0	SC31011	SC31013
SC31013	NICE-CNE-0345 Inclement Weather (February 2022) - 6.5days (Implemented)	7	06-Jun-24	12-Jun-24	06-Jun-24	12-Jun-24	0	SC31012	SC31014
SC31014	NICE-CNE-0386 Inclement Weather (March 2022) - 3.5days (Implemented)	4	12-Jun-24	15-Jun-24	12-Jun-24	15-Jun-24	0	SC31013	SC31015
SC31015	NICE-CNE-0387 Inclement Weather (April 2022) - 2.5days (Implemented)	3	16-Jun-24	18-Jun-24	16-Jun-24	18-Jun-24	0	SC31014	SC31016
SC31016	NICE-CNE-0391 Inclement Weather (May 2022) - 8.5days (Implemented)	9	18-Jun-24	26-Jun-24	18-Jun-24	26-Jun-24	0	SC31015	SC31026
SC31026	NICE-CNE-0397 Inclement Weather (June 2022) - 11.5days (Implemented)	12	27-Jun-24	08-Jul-24	27-Jun-24	08-Jul-24	0	SC31016	SC31100
SC31100	Revised Completion for Section 3	0		08-Jul-24*		08-Jul-24	0	SC31026	
Expected Completion (Include Non-implemented CE)		2003	23-Oct-19 A	16-Apr-25	21-Feb-23	16-Apr-25	0		
SC31000-1	Contract Duration of Section 3	1626	23-Oct-19 A	04-Apr-24	21-Feb-23	04-Apr-24	0	CD1010	SC31001-1
SC31001-1	Completion date - Section 3 (1625 days after starting date)	0		04-Apr-24*		04-Apr-24	0	SC31000-1	SC31110, SC31002-1
SC31002-1	NICE-CNE-0248 - Inclement Weather (May 2021) - 5days (Implemented)	5	05-Apr-24	09-Apr-24	05-Apr-24	09-Apr-24	0	SC31001-1	SC31003-1
SC31003-1	NICE-CNE-0256 Inclement Weather (June 2021) - 14.5days (Implemented)	15	10-Apr-24	24-Apr-24	10-Apr-24	24-Apr-24	0	SC31002-1	SC31004-1



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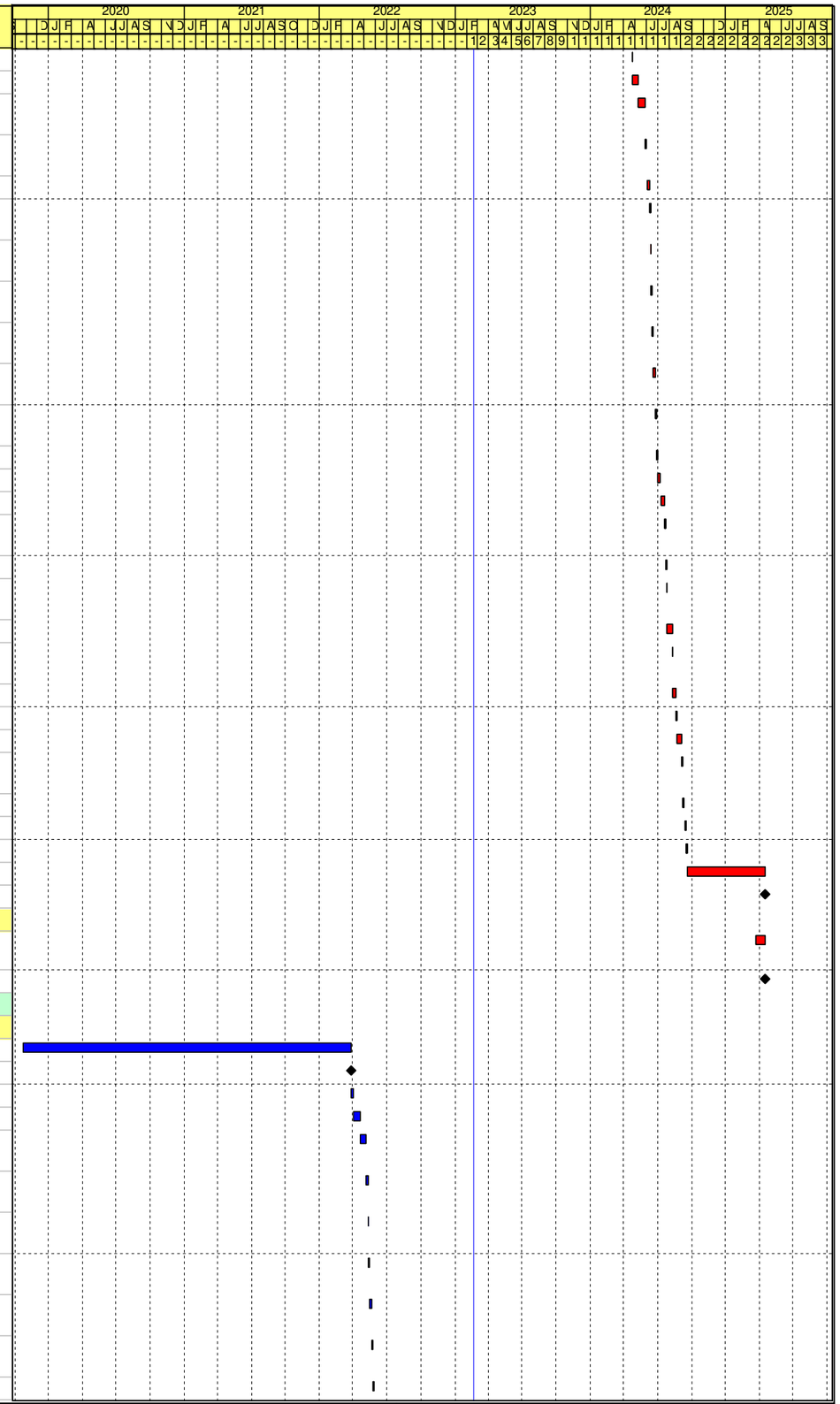
Remaining Work
Critical Activity
Milestone
Actual Progress

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 Feb 2023

Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
SC31004-1	CNE-007 Black and Red Rainstorm Warning (June 2021) - 1day	1	24-Apr-24	25-Apr-24	24-Apr-24	25-Apr-24	0	SC31003-1	SC31005-1
SC31005-1	NICE-CNE-0264 Inclement Weather (July 2021) - 15days (Implemented)	15	25-Apr-24	10-May-24	25-Apr-24	10-May-24	0	SC31004-1	SC31006-1
SC31006-1	NICE-CNE-0292 Inclement Weather (August 2021) - 19days (Implemented)	19	10-May-24	29-May-24	10-May-24	29-May-24	0	SC31005-1	SC31007-1
SC31007-1	NICE-CNE-0293 Inclement Weather (September 2021) - 3.5days (Implemented)	4	29-May-24	01-Jun-24	29-May-24	01-Jun-24	0	SC31006-1	SC31008-1
SC31008-1	CNE-019 Inclement Weather (October 2021) - 7days	7	02-Jun-24	08-Jun-24	02-Jun-24	08-Jun-24	0	SC31007-1	SC31009-1
SC31009-1	CNE-020 Inclement Weather (October 2021) (Time and Cost Implication) - 4days	4	09-Jun-24	12-Jun-24	09-Jun-24	12-Jun-24	0	SC31008-1	SC31010-1
SC31010-1	NICE-CNE-0313 Inclement Weather (November 2021) - 0.5days (Implemented)	1	13-Jun-24	13-Jun-24	13-Jun-24	13-Jun-24	0	SC31009-1	SC31011-1
SC31011-1	NICE-CNE-0343 Inclement Weather (December 2021) - 4days (Implemented)	4	13-Jun-24	17-Jun-24	13-Jun-24	17-Jun-24	0	SC31010-1	SC31012-1
SC31012-1	NICE-CNE-0344 Inclement Weather (January 2022) - 0.5days (Implemented)	1	17-Jun-24	17-Jun-24	17-Jun-24	17-Jun-24	0	SC31011-1	SC31013-1
SC31013-1	NICE-CNE-0345 Inclement Weather (February 2022) - 6.5days (Implemented)	7	18-Jun-24	24-Jun-24	18-Jun-24	24-Jun-24	0	SC31012-1	SC31014-1
SC31014-1	NICE-CNE-0386 Inclement Weather (March 2022) - 3.5days (Implemented)	4	24-Jun-24	27-Jun-24	24-Jun-24	27-Jun-24	0	SC31013-1	SC31015-1
SC31015-1	NICE-CNE-0387 Inclement Weather (April 2022) - 2.5days (Implemented)	3	28-Jun-24	30-Jun-24	28-Jun-24	30-Jun-24	0	SC31014-1	SC31016-1
SC31016-1	NICE-CNE-0391 Inclement Weather (May 2022) - 8.5days (Implemented)	9	30-Jun-24	08-Jul-24	30-Jun-24	08-Jul-24	0	SC31015-1	SC31017-1
SC31017-1	NICE-CNE-0397 Inclement Weather (June 2022) - 11.5days (Implemented)	12	09-Jul-24	20-Jul-24	09-Jul-24	20-Jul-24	0	SC31016-1	SC31018-1
SC31018-1	CNE-053 Inclement Weather (June 2022) (Time and Cost Implication) - 2days	2	20-Jul-24	22-Jul-24	20-Jul-24	22-Jul-24	0	SC31017-1	SC31019-1
SC31019-1	CNE-054 Inclement Weather (July 2022) - 4days	4	22-Jul-24	26-Jul-24	22-Jul-24	26-Jul-24	0	SC31018-1	SC31020-1
SC31020-1	CNE-055 Inclement Weather (July 2022) (Time and Cost Implication) - 1day	1	26-Jul-24	27-Jul-24	26-Jul-24	27-Jul-24	0	SC31019-1	SC31021-1
SC31021-1	CNE-056 Inclement Weather (August 2022) - 13.5days	14	27-Jul-24	09-Aug-24	27-Jul-24	09-Aug-24	0	SC31020-1	SC31022-1
SC31022-1	CNE-057 Inclement Weather (August 2022) (Time and Cost Implication) - 1day	1	10-Aug-24	10-Aug-24	10-Aug-24	10-Aug-24	0	SC31021-1	SC31023-1
SC31023-1	CNE-058 Inclement Weather (September 2022) - 8days	8	11-Aug-24	18-Aug-24	11-Aug-24	18-Aug-24	0	SC31022-1	SC31024-1
SC31024-1	CNE-059 Inclement Weather (October 2022) - 4days	4	19-Aug-24	22-Aug-24	19-Aug-24	22-Aug-24	0	SC31023-1	SC31025-1
SC31025-1	CNE-061 Inclement Weather (November 2022) - 13days	13	23-Aug-24	04-Sep-24	23-Aug-24	04-Sep-24	0	SC31024-1	SC31026-1
SC31026-1	CNE-062 Inclement Weather (November 2022) (Time and Cost Implication) - 2days	2	05-Sep-24	06-Sep-24	05-Sep-24	06-Sep-24	0	SC31025-1	SC31027-1
SC31027-1	CNE-065 Inclement Weather (December 2022) (Time Implication) - 5days	5	07-Sep-24	11-Sep-24	07-Sep-24	11-Sep-24	0	SC31026-1	SC31028-1
SC31028-1	CNE-068 Inclement Weather (January 2023) (Time Implication) - 5days	5	12-Sep-24	16-Sep-24	12-Sep-24	16-Sep-24	0	SC31027-1	SC31029-1
SC31029-1	CNE-070 Inclement Weather (February 2023) (Time Implication) - 2days	2	17-Sep-24	18-Sep-24	17-Sep-24	18-Sep-24	0	SC31028-1	SC31099-1
SC31099-1	EWN-0314 Extention of Time for change of access date	210	19-Sep-24	16-Apr-25	19-Sep-24	16-Apr-25	0	SC31029-1	SC31100-1
SC31100-1	Expected Completion for Section 3	0		16-Apr-25*		16-Apr-25	0	SC31099-1	
Time Risk Allowance and Planned Completion		26	22-Mar-25	16-Apr-25	12-Jun-24	08-Jul-24	-283		
SC31110	Time Risk Allowance for Section 3	26	22-Mar-25	16-Apr-25	12-Jun-24	08-Jul-24	-283	SC31001-1, S3C1160,	SC31120
SC31120	Planned Completion for Section 3	0		16-Apr-25*		08-Jul-24	-283	SC31110	CD1040
Section 4 - Complete Construction & T&C for UV System No.1 & EP Station No. 1		1191	23-Oct-19 A	14-Sep-22 A	16-Apr-25	16-Apr-25			
Contractual Completion (Include Implemented CE)		1191	23-Oct-19 A	14-Sep-22 A	16-Apr-25	16-Apr-25			
SC41000	Contract Duration of Section 4	886	23-Oct-19 A	26-Mar-22 A	16-Apr-25	16-Apr-25			SC41001
SC41001	Completion date - Section 4 (885 days after starting date)	0		26-Mar-22 A		16-Apr-25		SC41000	SC41002
SC41002	NICE-CNE-0256 Inclement Weather (June 2021) - 6.5days (Implemented)	7	27-Mar-22 A	02-Apr-22 A	16-Apr-25	16-Apr-25		SC41001	SC41004
SC41004	NICE-CNE-0264 Inclement Weather (July 2021) - 19days (Implemented)	19	02-Apr-22 A	21-Apr-22 A	16-Apr-25	16-Apr-25		SC41002	SC41005
SC41005	NICE-CNE-0292 Inclement Weather (August 2021) - 16days (Implemented)	16	21-Apr-22 A	07-May-22 A	16-Apr-25	16-Apr-25		SC41004	SC41006
SC41006	NICE-CNE-0293 Inclement Weather (September 2021) - 4.5days (Implemented)	5	07-May-22 A	11-May-22 A	16-Apr-25	16-Apr-25		SC41005	SC41009
SC41009	NICE-CNE-0313 Inclement Weather (November 2021) - 0.5days (Implemented)	1	12-May-22 A	12-May-22 A	16-Apr-25	16-Apr-25		SC41006	SC41010
SC41010	NICE-CNE-0343 Inclement Weather (December 2021) - 4days (Implemented)	4	12-May-22 A	16-May-22 A	16-Apr-25	16-Apr-25		SC41009	SC41012
SC41012	NICE-CNE-0345 Inclement Weather (February 2022) - 4.5days (Implemented)	5	16-May-22 A	20-May-22 A	16-Apr-25	16-Apr-25		SC41010	SC41013
SC41013	NICE-CNE-0386 Inclement Weather (March 2022) - 4.5days (Implemented)	5	21-May-22 A	25-May-22 A	16-Apr-25	16-Apr-25		SC41012	SC41014
SC41014	NICE-CNE-0387 Inclement Weather (April 2022) - 1.5days (Implemented)	2	25-May-22 A	26-May-22 A	16-Apr-25	16-Apr-25		SC41013	SC41015



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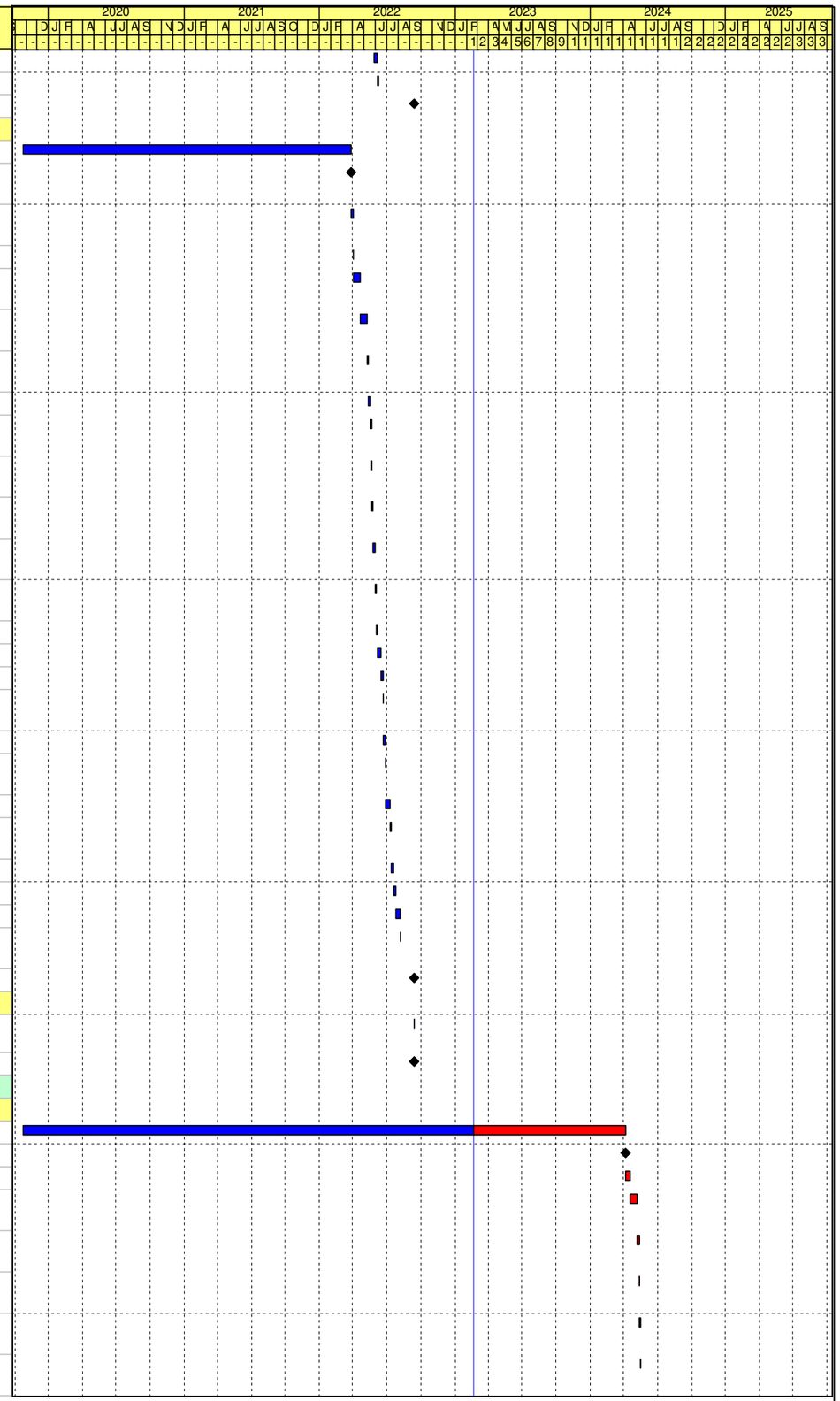
Remaining Work
Critical Activity
Milestone
Actual Progress

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 Feb 2023

Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
SC41015	NICE-CNE-0391 Inclement Weather (May 2022) - 10.5days (Implemented)	11	27-May-22 A	06-Jun-22 A	16-Apr-25	16-Apr-25		SC41014	SC41016
SC41016	NICE-CNE-0397 Inclement Weather (June 2022) - 4.5days (Implemented)	5	06-Jun-22 A	10-Jun-22 A	16-Apr-25	16-Apr-25		SC41015	SC41100
SC41100	Revised Completion for Section 4	0		14-Sep-22 A		16-Apr-25		SC41016	
Expected Completion (Include Non-implemented CE)		1170	23-Oct-19 A	14-Sep-22 A	16-Apr-25	16-Apr-25			
SC41000-1	Contract Duration of Section 4	886	23-Oct-19 A	26-Mar-22 A	16-Apr-25	16-Apr-25		CD1010	SC41001-1
SC41001-1	Completion date - Section 4 (885 days after starting date)	0		26-Mar-22 A		16-Apr-25		SC41000-1	SC41110, SC41002-1
SC41002-1	NICE-CNE-0256 Inclement Weather (June 2021) - 6.5days (Implemented)	7	27-Mar-22 A	02-Apr-22 A	16-Apr-25	16-Apr-25		SC41001-1	SC41004-1, SC41003-1
SC41003-1	CNE-007 Black and Red Rainstorm Warning (June 2021) - 1day	1	02-Apr-22 A	03-Apr-22 A	16-Apr-25	16-Apr-25		SC41002-1	SC41004-1
SC41004-1	NICE-CNE-0264 Inclement Weather (July 2021) - 19days (Implemented)	19	03-Apr-22 A	22-Apr-22 A	16-Apr-25	16-Apr-25		SC41002-1, SC41003-1	SC41005-1
SC41005-1	NICE-CNE-0292 Inclement Weather (August 2021) - 16days (Implemented)	16	22-Apr-22 A	08-May-22 A	16-Apr-25	16-Apr-25		SC41004-1	SC41006-1
SC41006-1	NICE-CNE-0293 Inclement Weather (September 2021) - 4.5days (Implemented)	5	08-May-22 A	12-May-22 A	16-Apr-25	16-Apr-25		SC41005-1	SC41007-1
SC41007-1	CNE-019 Inclement Weather (October 2021) - 5days	5	13-May-22 A	17-May-22 A	16-Apr-25	16-Apr-25		SC41006-1	SC41008-1
SC41008-1	CNE-020 Inclement Weather (October 2021) (Time and Cost Implication) - 4days	4	18-May-22 A	21-May-22 A	16-Apr-25	16-Apr-25		SC41007-1	SC41009-1
SC41009-1	NICE-CNE-0313 Inclement Weather (November 2021) - 0.5days (Implemented)	1	22-May-22 A	22-May-22 A	16-Apr-25	16-Apr-25		SC41008-1	SC41010-1
SC41010-1	NICE-CNE-0343 Inclement Weather (December 2021) - 4days (Implemented)	4	22-May-22 A	26-May-22 A	16-Apr-25	16-Apr-25		SC41009-1	SC41012-1
SC41012-1	NICE-CNE-0345 Inclement Weather (February 2022) - 4.5days (Implemented)	5	26-May-22 A	30-May-22 A	16-Apr-25	16-Apr-25		SC41010-1	SC41013-1
SC41013-1	NICE-CNE-0386 Inclement Weather (March 2022) - 4.5days (Implemented)	5	31-May-22 A	04-Jun-22 A	16-Apr-25	16-Apr-25		SC41012-1	SC41014-1
SC41014-1	NICE-CNE-0387 Inclement Weather (April 2022) - 1.5days (Implemented)	2	04-Jun-22 A	05-Jun-22 A	16-Apr-25	16-Apr-25		SC41013-1	SC41015-1
SC41015-1	NICE-CNE-0391 Inclement Weather (May 2022) - 10.5days (Implemented)	11	06-Jun-22 A	16-Jun-22 A	16-Apr-25	16-Apr-25		SC41014-1	SC41016-1
SC41016-1	NICE-CNE-0397 Inclement Weather (June 2022) - 4.5days (Implemented)	5	16-Jun-22 A	20-Jun-22 A	16-Apr-25	16-Apr-25		SC41015-1	SC41017-1
SC41017-1	CNE-053 Inclement Weather (June 2022) (Time and Cost Implication) - 2day	2	21-Jun-22 A	22-Jun-22 A	16-Apr-25	16-Apr-25		SC41016-1	SC41018-1
SC41018-1	CNE-054 Inclement Weather (July 2022) - 4days	4	23-Jun-22 A	26-Jun-22 A	16-Apr-25	16-Apr-25		SC41017-1	SC41019-1
SC41019-1	CNE-055 Inclement Weather (July 2022) (Time and Cost Implication) - 1day	1	27-Jun-22 A	27-Jun-22 A	16-Apr-25	16-Apr-25		SC41018-1	SC41020-1
SC41020-1	CNE-056 Inclement Weather (August 2022) - 13.5days	14	28-Jun-22 A	11-Jul-22 A	16-Apr-25	16-Apr-25		SC41019-1	SC41021-1
SC41021-1	CNE-057 Inclement Weather (August 2022) (Time and Cost Implication) - 1day	1	11-Jul-22 A	12-Jul-22 A	16-Apr-25	16-Apr-25		SC41020-1	SC41022-1
SC41022-1	CNE-058 Inclement Weather (September 2022) - 8days	8	12-Jul-22 A	20-Jul-22 A	16-Apr-25	16-Apr-25		SC41021-1	SC41023-1
SC41023-1	CNE-059 Inclement Weather (October 2022) - 4days	4	20-Jul-22 A	24-Jul-22 A	16-Apr-25	16-Apr-25		SC41022-1	SC41024-1
SC41024-1	CNE-061 Inclement Weather (November 2022) - 13days	13	24-Jul-22 A	06-Aug-22 A	16-Apr-25	16-Apr-25		SC41023-1	SC41025-1
SC41025-1	CNE-062 Inclement Weather (November 2022) (Time and Cost Implication) - 2days	2	06-Aug-22 A	08-Aug-22 A	16-Apr-25	16-Apr-25		SC41024-1	SC41100-1
SC41100-1	Expected Completion for Section 4	0		14-Sep-22 A		16-Apr-25		SC41025-1	
Time Risk Allowance and Planned Completion		7	14-Sep-22 A	14-Sep-22 A	16-Apr-25	16-Apr-25			
SC41110	Time Risk Allowance for Section 4	7	14-Sep-22 A	14-Sep-22 A	16-Apr-25	16-Apr-25		SC41001-1, S4C1100,	SC41120
SC41120	Planned Completion for Section 4	0		14-Sep-22 A		16-Apr-25		SC41110	CD1040
Section 5 - Complete all remaining Works (incl. T&C)		2003	23-Oct-19 A	16-Apr-25	21-Feb-23	16-Apr-25	0		
Contractual Completion (Include Implemented CE)		1700	23-Oct-19 A	17-Jun-24	21-Feb-23	17-Jun-24	0		
SC51000	Contract Duration of Section 5	1626	23-Oct-19 A	04-Apr-24	21-Feb-23	04-Apr-24	0		SC51001
SC51001	Completion date - Section 5 (1625 days after starting date)	0		04-Apr-24*		04-Apr-24	0	SC51000	SC51002
SC51002	NICE-CNE-0264 Inclement Weather (July 2021) - 14days (Implemented)	14	05-Apr-24	18-Apr-24	05-Apr-24	18-Apr-24	0	SC51001	SC51003
SC51003	NICE-CNE-0292 Inclement Weather (August 2021) - 19days (Implemented)	19	19-Apr-24	07-May-24	19-Apr-24	07-May-24	0	SC51002	SC51004
SC51004	NICE-CNE-0293 Inclement Weather (September 2021) - 3.5days (Implemented)	4	08-May-24	11-May-24	08-May-24	11-May-24	0	SC51003	SC51007
SC51007	NICE-CNE-0313 Inclement Weather (November 2021) - 0.5days (Implemented)	1	11-May-24	11-May-24	11-May-24	11-May-24	0	SC51004	SC51008
SC51008	NICE-CNE-0343 Inclement Weather (December 2021) - 5days (Implemented)	5	12-May-24	16-May-24	12-May-24	16-May-24	0	SC51007	SC51009
SC51009	NICE-CNE-0344 Inclement Weather (January 2022) - 0.5days (Implemented)	1	17-May-24	17-May-24	17-May-24	17-May-24	0	SC51008	SC51010



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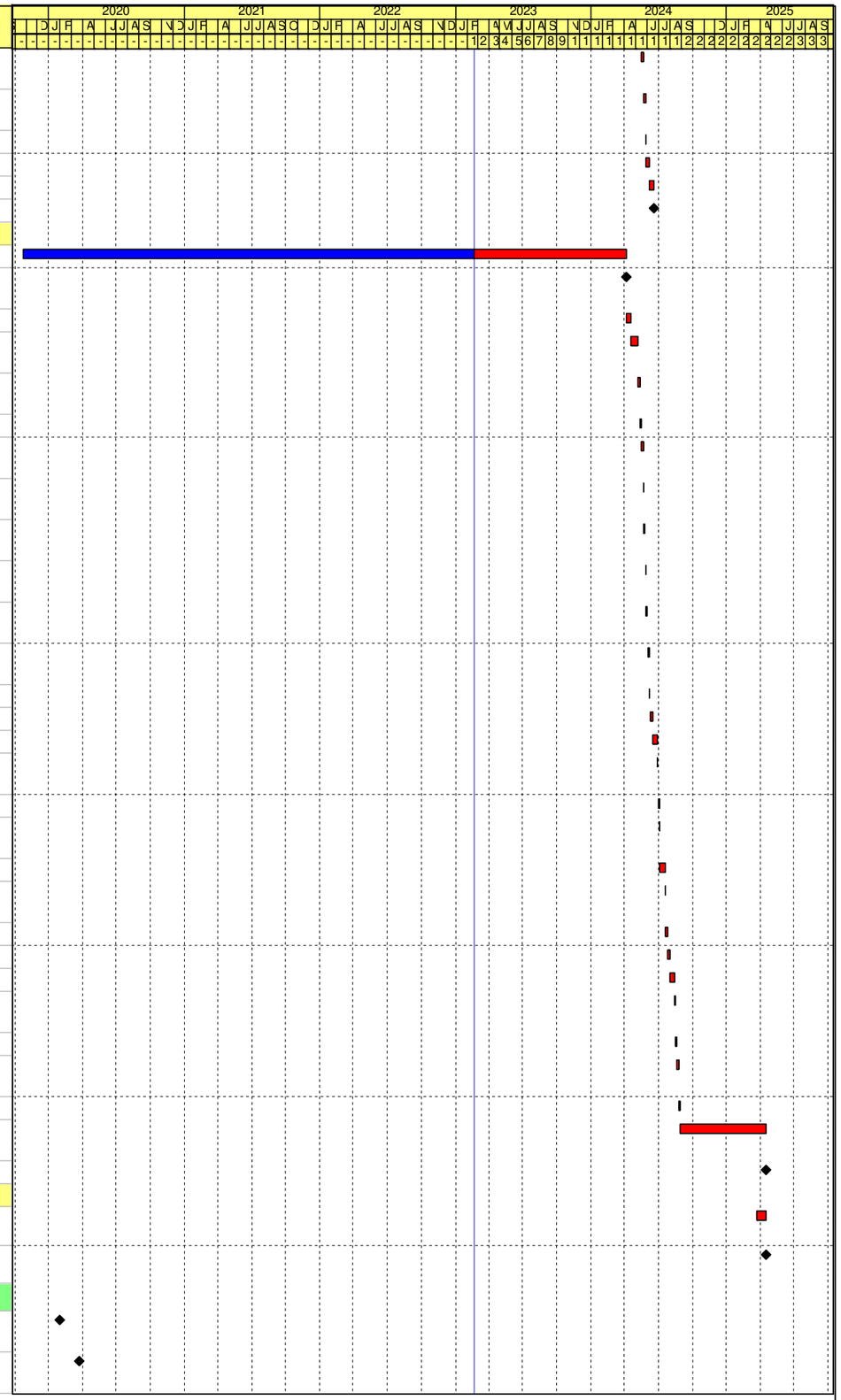
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
SC51010	NICE-CNE-0345 Inclement Weather (February 2022) - 5.5days (Implemented)	6	17-May-24	22-May-24	17-May-24	22-May-24	0	SC51009	SC51011
SC51011	NICE-CNE-0386 Inclement Weather (March 2022) - 4.5days (Implemented)	5	23-May-24	27-May-24	23-May-24	27-May-24	0	SC51010	SC51012
SC51012	NICE-CNE-0387 Inclement Weather (April 2022) - 1.5days (Implemented)	2	27-May-24	28-May-24	27-May-24	28-May-24	0	SC51011	SC51013
SC51013	NICE-CNE-0391 Inclement Weather (May 2022) - 8.5days (Implemented)	9	29-May-24	06-Jun-24	29-May-24	06-Jun-24	0	SC51012	SC51014
SC51014	NICE-CNE-0397 Inclement Weather (June 2022) - 11.5ays (Implemented)	12	06-Jun-24	17-Jun-24	06-Jun-24	17-Jun-24	0	SC51013	SC51100
SC51100	Revised Completion for Section 5	0		17-Jun-24*		17-Jun-24	0	SC51014	
Expected Completion (Include Non-implemented CE)		2003	23-Oct-19 A	16-Apr-25	21-Feb-23	16-Apr-25	0		
SC51000-1	Contract Duration of Section 5	1626	23-Oct-19 A	04-Apr-24	21-Feb-23	04-Apr-24	0	CD1010	SC51001-1
SC51001-1	Completion date - Section 5 (1625 days after starting date)	0		04-Apr-24*		04-Apr-24	0	SC51000-1	SC51110, SC51002-1
SC51002-1	NICE-CNE-0264 Inclement Weather (July 2021) - 14days (Implemented)	14	05-Apr-24	18-Apr-24	05-Apr-24	18-Apr-24	0	SC51001-1	SC51003-1
SC51003-1	NICE-CNE-0292 Inclement Weather (August 2021) - 19days (Implemented)	19	19-Apr-24	07-May-24	19-Apr-24	07-May-24	0	SC51002-1	SC51004-1
SC51004-1	NICE-CNE-0293 Inclement Weather (September 2021) - 3.5days (Implemented)	4	08-May-24	11-May-24	08-May-24	11-May-24	0	SC51003-1	SC51005-1
SC51005-1	CNE-019 Inclement Weather (October 2021) - 6days	6	11-May-24	17-May-24	11-May-24	17-May-24	0	SC51004-1	SC51006-1
SC51006-1	CNE-020 Inclement Weather (October 2021) (Time and Cost Implication) - 4days	4	17-May-24	21-May-24	17-May-24	21-May-24	0	SC51005-1	SC51007-1
SC51007-1	ICE-CNE-0313 Inclement Weather (November 2021) - 0.5days (Implemented)	1	21-May-24	21-May-24	21-May-24	21-May-24	0	SC51006-1	SC51008-1
SC51008-1	NICE-CNE-0343 Inclement Weather (December 2021) - 5days (Implemented)	5	22-May-24	26-May-24	22-May-24	26-May-24	0	SC51007-1	SC51009-1
SC51009-1	NICE-CNE-0344 Inclement Weather (January 2022) - 0.5days (Implemented)	1	27-May-24	27-May-24	27-May-24	27-May-24	0	SC51008-1	SC51010-1
SC51010-1	NICE-CNE-0345 Inclement Weather (February 2022) - 5.5days (Implemented)	6	27-May-24	01-Jun-24	27-May-24	01-Jun-24	0	SC51009-1	SC51011-1
SC51011-1	NICE-CNE-0386 Inclement Weather (March 2022) - 4.5days (Implemented)	5	02-Jun-24	06-Jun-24	02-Jun-24	06-Jun-24	0	SC51010-1	SC51012-1
SC51012-1	NICE-CNE-0387 Inclement Weather (April 2022) - 1.5days (Implemented)	2	06-Jun-24	07-Jun-24	06-Jun-24	07-Jun-24	0	SC51011-1	SC51013-1
SC51013-1	NICE-CNE-0391 Inclement Weather (May 2022) - 8.5days (Implemented)	9	08-Jun-24	16-Jun-24	08-Jun-24	16-Jun-24	0	SC51012-1	SC51014-1
SC51014-1	NICE-CNE-0397 Inclement Weather (June 2022) - 11.5ays (Implemented)	12	16-Jun-24	27-Jun-24	16-Jun-24	27-Jun-24	0	SC51013-1	SC51015-1
SC51015-1	CNE-053 Inclement Weather (June 2022) (Time and Cost Implication) - 2days	2	28-Jun-24	29-Jun-24	28-Jun-24	29-Jun-24	0	SC51014-1	SC51016-1
SC51016-1	CNE-054 Inclement Weather (July 2022) - 4days	4	30-Jun-24	03-Jul-24	30-Jun-24	03-Jul-24	0	SC51015-1	SC51017-1
SC51017-1	CNE-055 Inclement Weather (July 2022) (Time and Cost Implication) - 1day	1	04-Jul-24	04-Jul-24	04-Jul-24	04-Jul-24	0	SC51016-1	SC51018-1
SC51018-1	CNE-056 Inclement Weather (August 2022) - 13.5days	14	05-Jul-24	18-Jul-24	05-Jul-24	18-Jul-24	0	SC51017-1	SC51019-1
SC51019-1	CNE-057 Inclement Weather (August 2022) (Time and Cost Implication) - 1day	1	18-Jul-24	19-Jul-24	18-Jul-24	19-Jul-24	0	SC51018-1	SC51020-1
SC51020-1	CNE-058 Inclement Weather (September 2022) - 8days	8	19-Jul-24	27-Jul-24	19-Jul-24	27-Jul-24	0	SC51019-1	SC51021-1
SC51021-1	CNE-059 Inclement Weather (October 2022) - 4days	4	27-Jul-24	31-Jul-24	27-Jul-24	31-Jul-24	0	SC51020-1	SC51022-1
SC51022-1	CNE-061 Inclement Weather (November 2022) - 13days	13	31-Jul-24	13-Aug-24	31-Jul-24	13-Aug-24	0	SC51021-1	SC51023-1
SC51023-1	CNE-062 Inclement Weather (November 2022) (Time and Cost Implication) - 2days	2	13-Aug-24	15-Aug-24	13-Aug-24	15-Aug-24	0	SC51022-1	SC51024-1
SC51024-1	CNE-065 Inclement Weather (December 2022) (Time Implication) - 5days	5	15-Aug-24	20-Aug-24	15-Aug-24	20-Aug-24	0	SC51023-1	SC51025-1
SC51025-1	CNE-068 Inclement Weather (January 2023) (Time Implication) - 5days	5	20-Aug-24	25-Aug-24	20-Aug-24	25-Aug-24	0	SC51024-1	SC51099-1, SC51026-1
SC51026-1	CNE-070 Inclement Weather (February 2023) (Time Implication) - 2days	2	25-Aug-24	27-Aug-24	25-Aug-24	27-Aug-24	0	SC51025-1	SC51099-1
SC51099-1	EWN-0314 Extention of Time for change of access date	233	27-Aug-24	16-Apr-25	27-Aug-24	16-Apr-25	0	SC51025-1, SC51026-1	SC51100-1
SC51100-1	Expected Completion for Section 5	0		16-Apr-25*		16-Apr-25	0	SC51099-1	
Time Risk Allowance and Planned Completion		26	22-Mar-25	16-Apr-25	23-May-24	17-Jun-24	-303		
SC51110	Time Risk Allowance for Section 5	26	22-Mar-25	16-Apr-25	23-May-24	17-Jun-24	-303	SC51001-1, S5S1250,	SC51120
SC51120	Planned Completion for Section 5	0		16-Apr-25*		17-Jun-24	-303	SC51110, PL1520,	CD1040
Compensation Event		1621	23-Oct-19 A	21-Feb-23	30-Jan-22	16-Apr-25	785		
CE0001	CE No.001 - Special Work Arrangement in Reducing the Risk of the Spread of Novel Coronavirus	0		30-Jan-20 A		16-Apr-25			
CE0002	CE No.002 - The Contractor's Site Accomodation by Modular Integrated Construction (MIC) Method	0		23-Mar-20 A		16-Apr-25			



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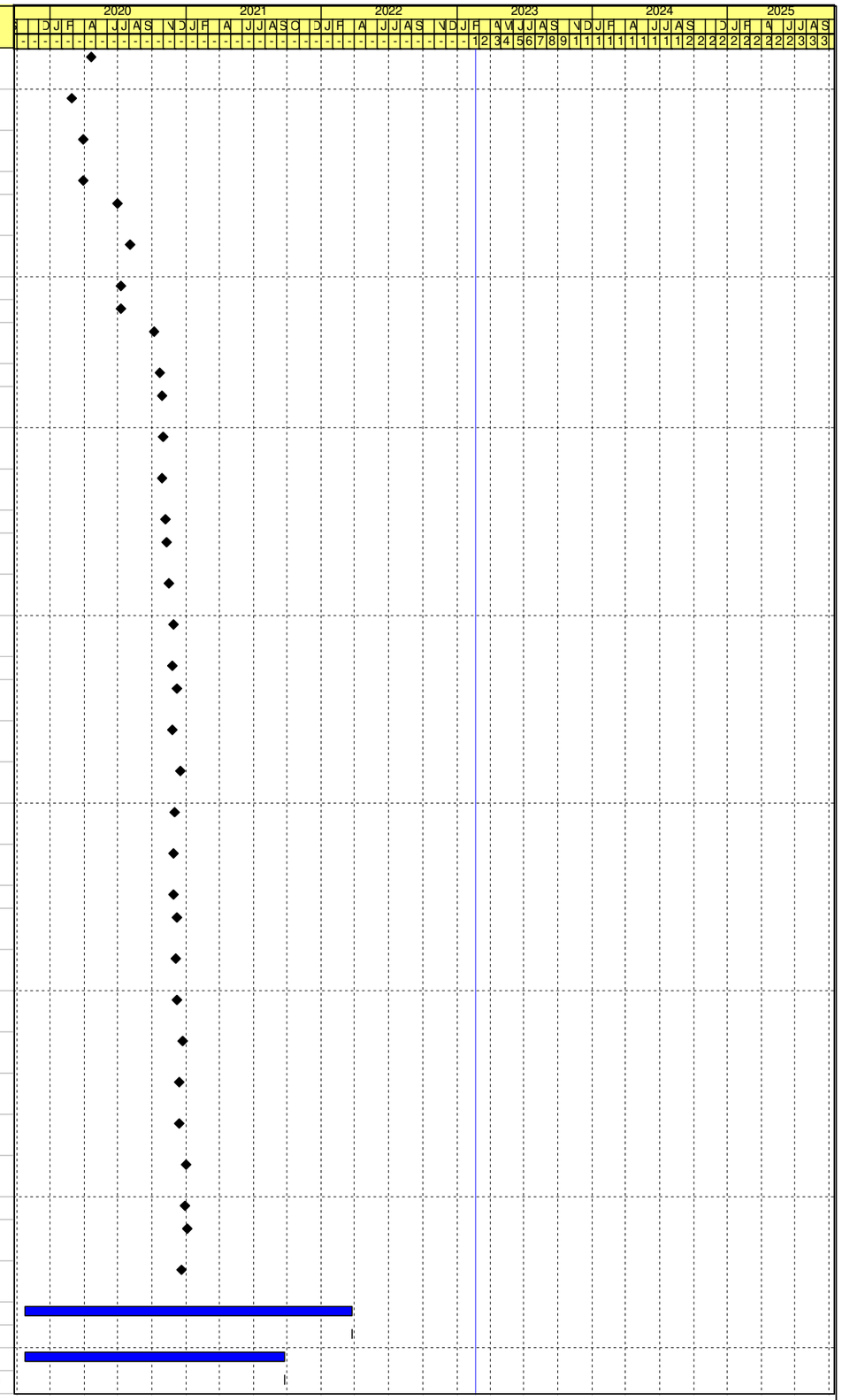
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
CE0003	CE No.003 - Flowmeter Relocation & Pipework Rearrangement at Effluent Transfer Pumping Station	0		20-Apr-20 A		16-Apr-25			
CE0004	CE No.004 - Designated Area for the Contractor's Site Accommodation in Works Area WA1	0		26-Feb-20 A		16-Apr-25			
CE0005	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		16-Apr-25			
CE0006	CE No.006 - Additional Duty Point for Effluent Transfer Pumps	0		27-Mar-20 A		16-Apr-25			
CE0007	CE No.007 - Additional Adjustable Weir at UV System No.1 & Effluent Pumping Station No.1	0		30-Jun-20 A		16-Apr-25			
CE0008	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		16-Apr-25			
CE0009	CE No.009 - Employment of Temporary Staff under Anti-Epidemic Fund	0		07-Jul-20 A		16-Apr-25			
CE0010	CE No.010 - Revised Setting Out Plan for Sidestream Treatment Facilities	0		07-Jul-20 A		16-Apr-25			
CE0012	CE No.012 - Provision of Touchscreen Display System for the Project Manager's Office	0		06-Oct-20 A		16-Apr-25			
CE0013	CE No.013 - Feasibility Study for Adopting emMiC & DfMA	0		22-Oct-20 A		16-Apr-25			
CE0014	CE No.014 - Revised FS Water Supply Arrangement for CHP, Guard House, Workshop No.2, SludgeDigester&DistributionChamber	0		28-Oct-20 A		16-Apr-25			
CE0015	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		16-Apr-25			
CE0016	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		16-Apr-25			
CE0018	CE No.018 - MVAC Layout for Plant Service Water System	0		05-Nov-20 A		16-Apr-25			
CE0020	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		16-Apr-25			
CE0201	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		16-Apr-25			
CE0202	NCE-PMI-0202 - Revised Plumbing Arrangement for Sludge Dewatering Building	0		26-Nov-20 A		16-Apr-25			
CE0203	NCE-PPMI-0203 - MVAC Layout for SAS Pumping Station	0		25-Nov-20 A		16-Apr-25			
CE0204	NCE-PMI-0204 - CHP - Provisional of Additional ATS for Power Supply for UPS	0		08-Dec-20 A		16-Apr-25			
CE0205	NCE-PPMI-0205 - Fibre Optics Network Connection for SCADA Systems between Zone B & Zone C	0		23-Nov-20 A		16-Apr-25			
CE0206	NCE-PMI-0206 - SDB - Provisional of Additional ATS for Power Supply for UPS	0		15-Dec-20 A		16-Apr-25			
CE0207	NCE-PMI-0207 - TX Rm & Switch Rm - Provision of ATS for Power Supply for UPS	0		01-Dec-20 A		16-Apr-25			
CE0208	NCE-PPMI-0208 - Provision of Drainage service Layout for SAS Pumping Station	0		26-Nov-20 A		16-Apr-25			
CE0209	NCE-PPMI-0209 - Drainage System for Plant Service Water System	0		26-Nov-20 A		16-Apr-25			
CE0210	NCE-PPMI-0210 - Electrical provisions for MVAC & Drainage Systems in SAS Pumping Station	0		08-Dec-20 A		16-Apr-25			
CE0211	NCE-PPMI-0211 - Revised MVAC Layout & Electrical Provisions for MVAC in TX and Switch Rm	0		02-Dec-20 A		16-Apr-25			
CE0212	NCE-PMI-0212 - Provision of Louvre Panel for Outdoor AC Units at Contractor's Site Accomodation	0		07-Dec-20 A		16-Apr-25			
CE0213	NCE-PPMI-0213 - Electrical provisions for MVAC & Drainage System in UV System No.1 & Effluent Pumping Station No.1	0		21-Dec-20 A		16-Apr-25			
CE0214	NCE-PPMI-0214 - Additional Sump Pump & Drain Pipes at UV System No.1 & Effluent Pumping Station	0		14-Dec-20 A		16-Apr-25			
CE0215	NCE-PPMI-0215 - Revised MVAC Layout for UV System No.1 & Effluent Pumping Station No.1	0		14-Dec-20 A		16-Apr-25			
CE0216	NCE-PPMI-0216 - Electrical Provisions for MVAC & drainage Sytems in Plant Service Water System	0		31-Dec-20 A		16-Apr-25			
CE0217	NCE-PMI-0217 - Revised Duty Points for Effluent Transfer Pumps	0		29-Dec-20 A		16-Apr-25			
CE0218	NCE-PMI-0218 - Scoping Study for Application of Digital Twin & IoT in Zone B & Zone C of SWHEPP	0		04-Jan-21 A		16-Apr-25			
CE0219	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		16-Apr-25			
CE0219a	NCE-NCE-0219 - Portion B-2a (within 771 to 891 days from starting date)	891	23-Oct-19 A	23-Mar-22 A	25-Dec-22	25-Dec-22		CD1010	CE0219b
CE0219b	NCE-NCE-0219 - Revised Access Date for Portion B-2a	1	23-Mar-22 A	23-Mar-22 A	25-Dec-22	25-Dec-22		CE0219a	S5SASC1010
CE0219c	NCE-NCE-0219 - Portion B-2b (within 615 to 705 days from starting date)	705	23-Oct-19 A	24-Sep-21 A	20-Dec-22	20-Dec-22			CE0219d
CE0219d	NCE-NCE-0219 - Revised Access Date for Portion B-2b	1	24-Sep-21 A	24-Sep-21 A	20-Dec-22	20-Dec-22		CE0219c	S5ECHC1000



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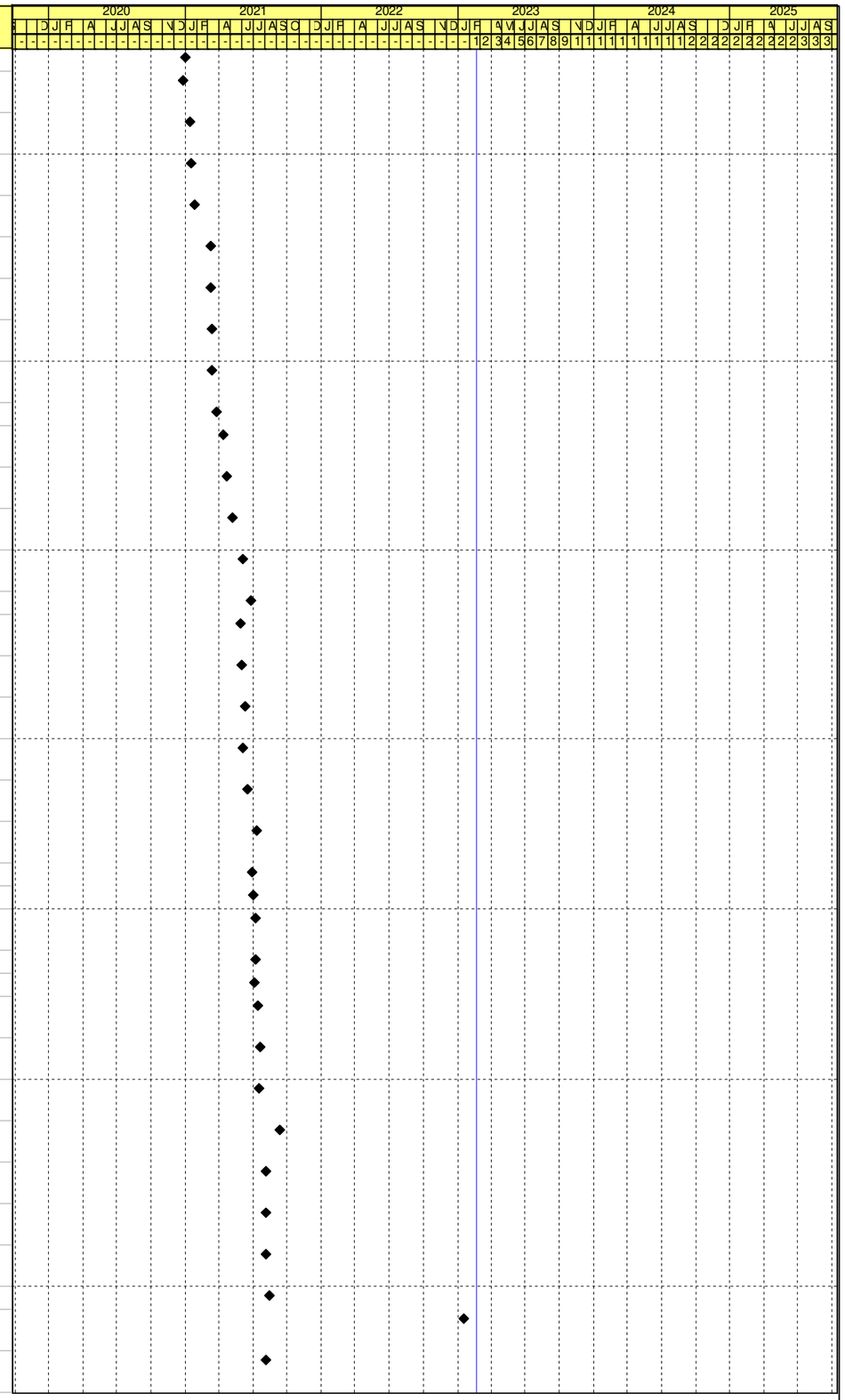
CE0220	NCE-PMI-0220 - Supply of Puddle Pipes for Effluent to Shek Sheung River	0		30-Dec-20 A		16-Apr-25			
CE0221	NCE-PPMI-0221 - General Arrangement for Fire Hydrant & Booster Pump Room	0		24-Dec-20 A		16-Apr-25			
CE0222	NCE-PMI-0222 - Revised Water Supply Arrangement (FS Water) to Sludge Dewatering Building	0		12-Jan-21 A		16-Apr-25			
CE0223	NCE-PMI-0223 - Construction of Trial Pits for Sidestream Treatment Facilities	0		15-Jan-21 A		16-Apr-25			
CE0224	NCE-PMI-0224 - Independent Inspection Body (IIB) for the Factory Acceptance Test (FAT) for UV Disinfeciton System	0		25-Jan-21 A		16-Apr-25			
CE0225	NCE-PMI-0225 - Supply of Ductile Iron Puddle Pipes at the Basement of Sludge Dewatering Building	0		09-Mar-21 A		16-Apr-25			
CE0226	NCE-PMI-0226 - Provision of Solar Water Heating System at the Contractor's Site Accomodation	0		09-Mar-21 A		16-Apr-25			
CE0227	NCE-PMI-0227 - Dual Power Fedder for LV Switch Panel at Sewage Pumping Station	0		11-Mar-21 A		16-Apr-25			
CE0228	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		16-Apr-25			
CE0230	NCE-PMI-0230 - Provision of Project Jackets with Fleece Vests	0		26-Mar-21 A		16-Apr-25			
CE0231	NCE-PMI-0231 - Extension of Sampling Pipe From Low Level on Sludge Digesters	0		12-Apr-21 A		16-Apr-25			
CE0232	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		16-Apr-25			
CE0233	NCE-PMI-0233 - Sampling, Simulating and Testing of Existing Sludge for Obtaining the Viscosity of the Mixed Sludge	0		06-May-21 A		16-Apr-25			
CE0234	NCE-PMI-0234 - Provision of FRP Walkway, Access Platform & Handrailing for Sludge Digester No. 2	0		02-Jun-21 A		16-Apr-25			
CE0237	NCE-CNE-0237 - Provision of Inspectin Windows for Sludge Digester	0		25-Jun-21 A		16-Apr-25			
CE0238	NCE-PMI-0238 - Supply of Stainless Steel Puddle Pipes for Surplus Activated Sludge (SAS) Pumping Station	0		27-May-21 A		16-Apr-25			
CE0239	NCE-PMI-0239 - Revised the Arrangement for Process Water Supply and Plant Services Water System	0		01-Jun-21 A		16-Apr-25			
CE0240	NCE-PMI-0240 - Revised Coping and Invert Levels for Penstock and Stoplog of SAS Pumping Station	0		09-Jun-21 A		16-Apr-25			
CE0241	NCE-PMI-0241 - Revised Diesel Fuel Tank at Combined Heat and Power (CHP) Building	0		04-Jun-21 A		16-Apr-25			
CE0242	NCE-PMI-0242 - Revised Fire Services Provision of UV System No. 1 and Effluent Pumping Station No. 1	0		15-Jun-21 A		16-Apr-25			
CE0243	NCE-PMI-0243 - Provision of Flow Signal Inputs for UV Disinfection System	0		12-Jul-21 A		16-Apr-25			
CE0244	RCNE-CNE-0244 - Access to and use of portion C-1A	0		29-Jun-21 A		16-Apr-25			
CE0245	NCE-PMI-0245 - Provision of Augmented Reality (AR) Mobile Application	0		30-Jun-21 A		16-Apr-25			
CE0246	NCE-PMI-0246 - Revised HV Remote Control Panels at CHP & Workshop No. 2	0		06-Jul-21 A		16-Apr-25			
CE0247	NCE-PMI-0247 - Temporary 4G System for SCADA System Monitoring	0		07-Jul-21 A		16-Apr-25			
CE0248	NCE-PMI-0248 - Inclement Weather - May 2021 (Time Implication)	0		05-Jul-21 A		16-Apr-25			
CE0250	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		16-Apr-25			
CE0252	NCE-PMI-0252 - Provision of Neutral Earthing Resistor (NER) at Workshop No. 2	0		19-Jul-21 A		16-Apr-25			
CE0253	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		16-Apr-25			
CE0254	NCE-CNE-0254 - Removal of Obstructions at Trail Pit No. 3 at Sidestreamt Facilities	0		10-Sep-21 A		16-Apr-25			
CE0256	RCNE-CNE-0256 - Amber Rainstrom Warning and Inclement Weather - June 2021 (Time Implication)	0		05-Aug-21 A		16-Apr-25			
CE0257	RCNE-CNE-0257 - Black and Red Rainstrom Warning - June 2021 (Time & Cost Implication)	0		05-Aug-21 A		16-Apr-25			
CE0258	NCE-PMI-0258 - Provision of FRP Cover for Overflow Chambers of Sludge Digesters	0		04-Aug-21 A		16-Apr-25			
CE0259	NCE-PMI-0259 - Provision of Virtual Reality (VR) Safety Training Platform	0		13-Aug-21 A		16-Apr-25			
CE0259-1	NCE-PMI-0259-1 - Provision of Virtual Reality (VR) Safety Training Platform (Another 1 year subscription)	0		17-Jan-23 A		16-Apr-25			
CE0260	NCE-PMI-0260 - Provision of Chequer Plates at UV System No. 1 & Effluent Pumping Station No. 1	0		04-Aug-21 A		16-Apr-25			



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Contract No. DE/2018/03
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Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities
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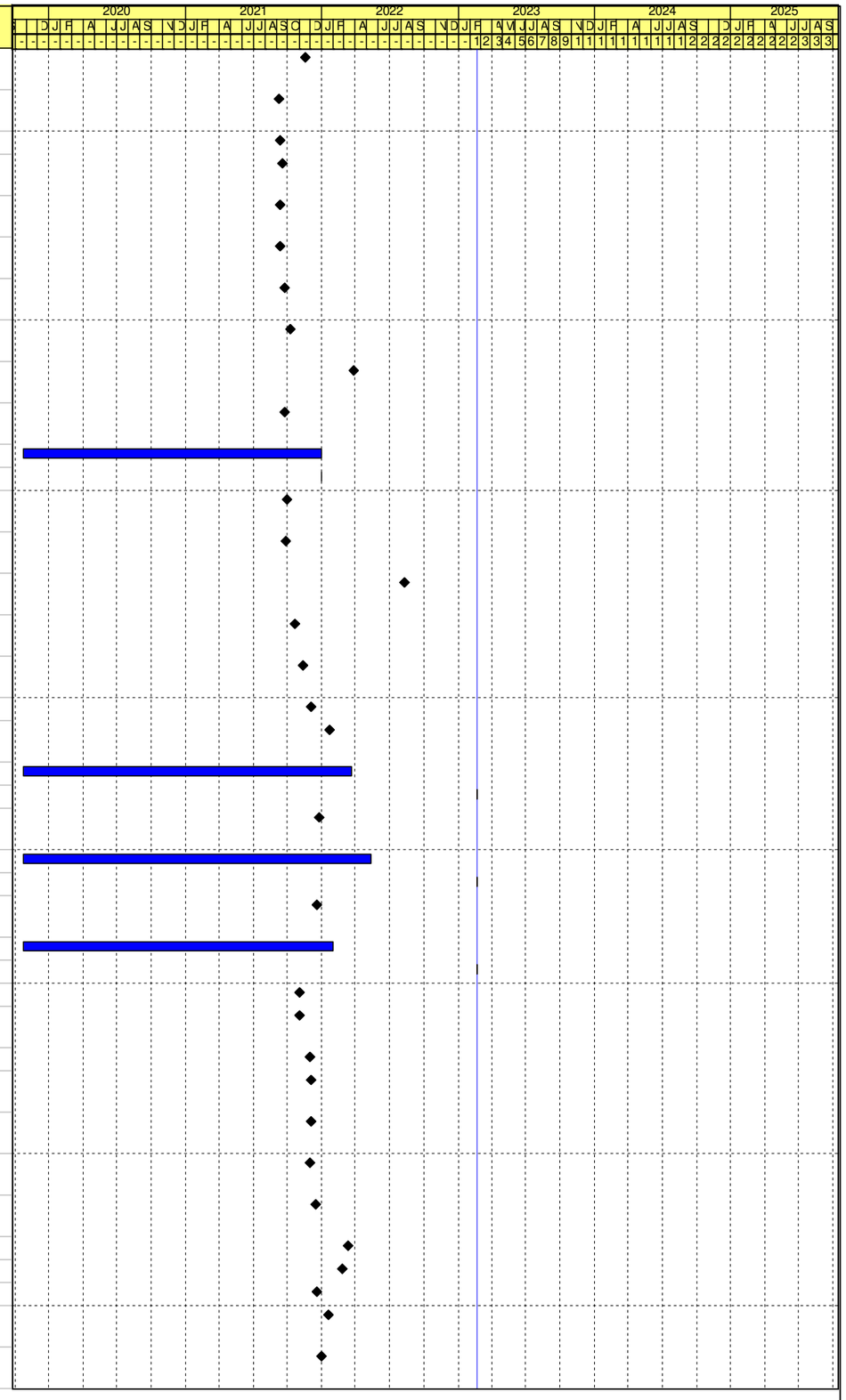
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
CE0262	NCE-PMI-0262 - Emergency Access Door for Lift at Sludge Dewatering Building	0		18-Nov-21 A		16-Apr-25			
CE0263	NCE-PMI-0263 - Upgrade of the Supporting Frame of 1st and 2nd Stage Heat Exchangers for Future Expansion of THP System	0		07-Sep-21 A		16-Apr-25			
CE0264	RCNE-CNE-0264 - Inclement Weather - July 2021 (Time Implication)	0		10-Sep-21 A		16-Apr-25			
CE0265	NCE-PMI-0265 - Water Supply to Emergency Drench Shower and Eye Fountain at Deodorization System No. 11	0		16-Sep-21 A		16-Apr-25			
CE0269	NCE-PMI-0269 - Additional Cleansing Points at Sludge Skip Area of Sludge Dewatering Building	0		10-Sep-21 A		16-Apr-25			
CE0270	NCE-CNE-0270 - Extra sampling, simulating & testing of exiting sludge for obtaining the viscosity of the existing sludge	0		10-Sep-21 A		16-Apr-25			
CE0271	NCE-PMI-0271 - Provision of Access Platform for the EOT Crane (LA-01-02) in Sludge Dewatering Building	0		23-Sep-21 A		16-Apr-25			
CE0272	NCE-PMI-0272 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		08-Oct-21 A		16-Apr-25			
CE0272-1	NCE-PMI-0272-1 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		28-Mar-22 A		16-Apr-25			
CE0273	NCE-NCE-0273 - Change of Site Access Date to Workshop No. 2 Forming Part of Portion C-3 of the Site	0		24-Sep-21 A		16-Apr-25			
CE0273a	NCE-NCE-0273 - Portion C-3 (within 615 to 815 days from starting date)	815	23-Oct-19 A	31-Dec-21 A	16-Apr-25	16-Apr-25			CE0273b
CE0273b	NCE-NCE-0273 - Revised Access Date for Portion C-3	1	31-Dec-21 A	31-Dec-21 A	16-Apr-25	16-Apr-25		CE0273a	
CE0275	NCE-PMI-0275 - Additional Lighting Fittings for UV System No.1 & Effluent Pumping Station No.1	0		29-Sep-21 A		16-Apr-25			
CE0277	NCE-PMI-0277 - Provision of Access Platform for the EOT Crane (LA-01-03) in Sludge Dewatering Building	0		27-Sep-21 A		16-Apr-25			
CE0279	NCE-PPMI-0279 - Implementation of Digital Twin Pilot Project in Advance Works Area of Shek Wu Hui Sewage Treatment Works	0		11-Aug-22 A		16-Apr-25			
CE0280	NCE-PMI-0280 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		21-Oct-21 A		16-Apr-25			
CE0283	NCE-PMI-0283 - Provision of Metal Base Plate,Stopper&Guide Rail for Loading&Unloading of Sludge Skip at Skip Rm of SDB	0		11-Nov-21 A		16-Apr-25			
CE0284	NCE-PMI-0284 - Revised Road Lighting System for Zone C	0		03-Dec-21 A		16-Apr-25			
CE0286	NCE-NCE-0286 - Change of Site Access Date to Combined Heat and Power Building Forming Part of Portion C-2B of the Site	0		21-Jan-22 A		16-Apr-25			
CE0286a	NCE-NCE-0286 - Portion C-2B (within 765 to 880 days from starting date)	880	23-Oct-19 A	20-Mar-22 A	20-Mar-22	20-Mar-22			CE0286b
CE0286b	NCE-NCE-0286 - Revised Access Date for Portion C2-B	1	21-Feb-23	21-Feb-23*	20-Mar-22	20-Mar-22	-338	CE0286a	
CE0287	NCE-NCE-0287 - Change of Site Access Date to Sludge Digester & Distribution Chamber Forming Part of Portion C- 2C	0		24-Dec-21 A		16-Apr-25			
CE0287a	NCE-NCE-0287 - Portion C-2C (within 715 to 934 days from starting date)	934	23-Oct-19 A	13-May-22 A	13-May-22	13-May-22			CE0287b
CE0287b	NCE-NCE-0287 - Revised Access Date for Portion C2-C	1	21-Feb-23	21-Feb-23*	13-May-22	13-May-22	-284	CE0287a	
CE0288	NCE-NCE-0288 - Change of Site Access Date to Sludge Dewatering Building Forming Part of the Portion C- 2A of the site	0		18-Dec-21 A		16-Apr-25			
CE0288a	NCE-NCE-0288 - Portion C-2A (within 705 to 831 days from starting date)	831	23-Oct-19 A	30-Jan-22 A	30-Jan-22	30-Jan-22			CE0288b
CE0288b	NCE-NCE-0288 - Revised Access Date for Portion C-2A	1	21-Feb-23	21-Feb-23*	30-Jan-22	30-Jan-22	-387	CE0288a	
CE0292	RCNE-CNE-0292 - Inclement Weather - August 2021 (Time Implication)	0		02-Nov-21 A		16-Apr-25			
CE0293	RCNE-CNE-0293 - Inclement Weather - September 2021 (Time Implication)	0		02-Nov-21 A		16-Apr-25			
CE0294	NCE-PMI-0294 - IIB for FAT for THP System	0		30-Nov-21 A		16-Apr-25			
CE0296	NCE-PMI-0296 - Provision of emMiC Adoption of FRP Wakway and Platform for Sludge Digesters	0		03-Dec-21 A		16-Apr-25			
CE0297	NCE-PMI-0297-Provision of Addit. Module BIM Collaboration Pro to existing CDE&Omission of Procurement Maintenance of CDE	0		03-Dec-21 A		16-Apr-25			
CE0298	NCE-PMI-0298 - Additional Light Fittings at Roof Floor of UV System No.1 & Effluent Pumping Station No.1	0		30-Nov-21 A		16-Apr-25			
CE0299	NCE-PMI-0299 - Revised Plumbing Layout for UV System No.1 & Effluent Pumping Station No.1	0		14-Dec-21 A		16-Apr-25			
CE0300	NCE-PMI-0300 - Revised Plumbing Layout for CHP, DOU 12 and SD&DC	0		10-Mar-22 A		16-Apr-25			
CE0301	NCE-PMI-0301 - Revised Plumbing Layout for SDB & FeCl3 Dosing System	0		24-Feb-22 A		16-Apr-25			
CE0302	NCE-PMI-0302 - Revised Lighting Layout Plan for Workshop No.2	0		17-Dec-21 A		16-Apr-25			
CE0303	NCE-CNE-0303 - Revise Fire Services Provision for Server Room of Workshop No.2	0		19-Jan-22 A		16-Apr-25			
CE0304	NCE-PMI-0304 - Provision of Digital Displaying Screen and Softwarewithin Portion B Area	0		29-Dec-21 A		16-Apr-25			



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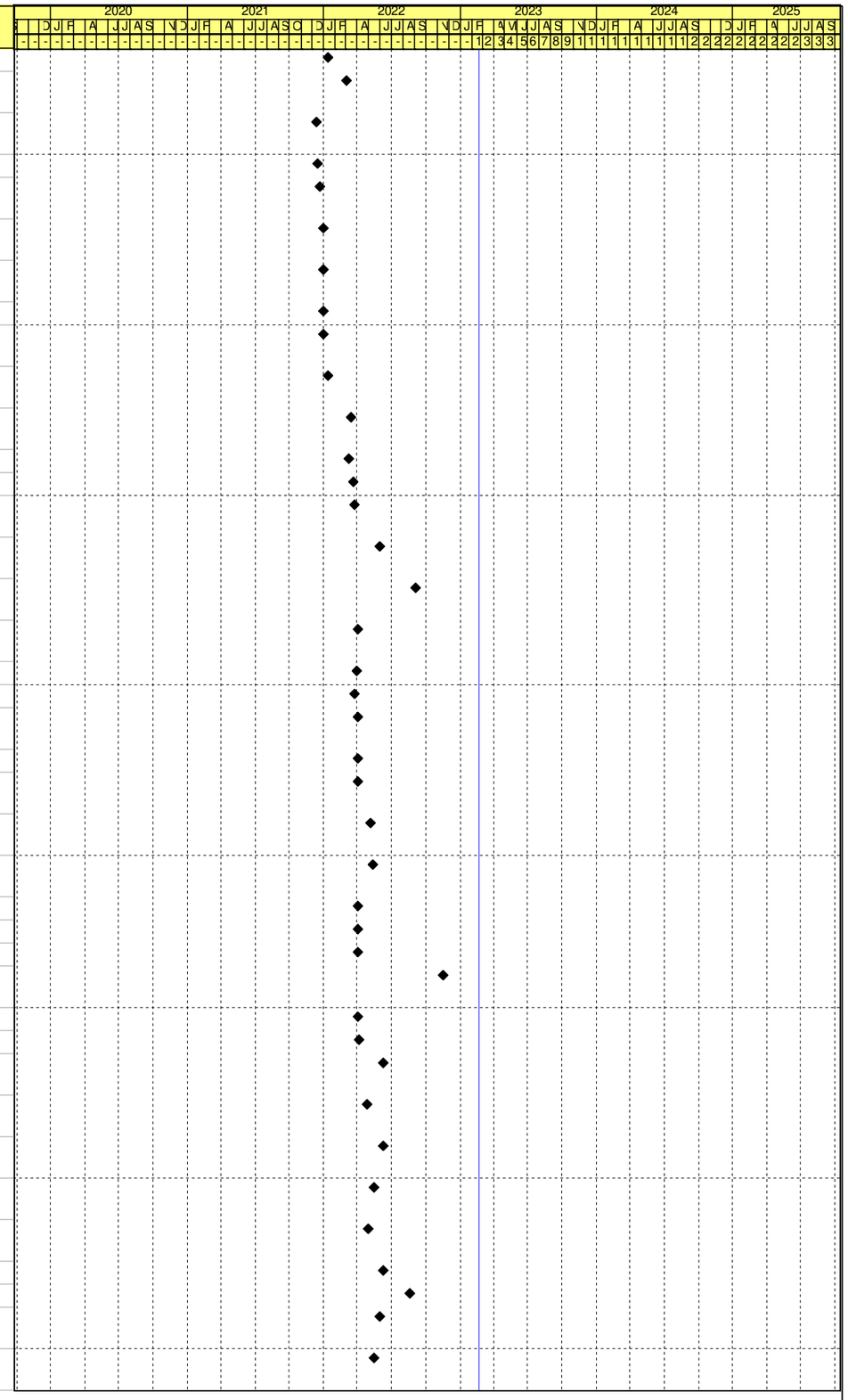
CE0305	NCE-PMI-0305 - Process Review for Advance Works	0		12-Jan-22 A		16-Apr-25			
CE0306	NCE-CNE-0306 - Additional Trial Pits & the Associated Modification Works for Uncharted Utilities at STF	0		01-Mar-22 A		16-Apr-25			
CE0307	NCE-PMI-0307 - Revised Quantity for Stoplogs of Sewage Pumping Station	0		13-Dec-21 A		16-Apr-25			
CE0309	RCNE-CNE-0309 - Inclement Weather - October 2021 (Time Implication)	0		16-Dec-21 A		16-Apr-25			
CE0310	NCE-PMI-0310 - Temp. Leased Line for UV System No.1, Effluent PS No.1 & existing Control Room at Zone B	0		20-Dec-21 A		16-Apr-25			
CE0311	NCE-PMI-0311 - Temp. Setup for SCADA System Monitoring & CCTV System Surveillance	0		29-Dec-21 A		16-Apr-25			
CE0312	CNE-0312 - Weather Condition Affecting the Site in Oct due to Typhoon Signal No.8 or above, Red/Black Rainstorm Warning	0		29-Dec-21 A		16-Apr-25			
CE0313	CNE-0313 - Inclement Weather - November 2021 (Time Implication)	0		29-Dec-21 A		16-Apr-25			
CE0315	NCE-PMI-0315 - Modification of Monorali LA-01-04 in Sludge Dewatering Building	0		30-Dec-21 A		16-Apr-25			
CE0317	NCE-PMI-0317 - Revised CCTV Layout Plan & Addition of CCTV Camera for UV System No.1 & Effluent Pumping Station	0		11-Jan-22 A		16-Apr-25			
CE0325	NCE-PMI-0325 - Provision of 2 Nos. of 3 Tons Mobile A-frame with Electrical Hoist in Sludge Dewatering Building	0		14-Mar-22 A		16-Apr-25			
CE0327	NCE-PMI-0327 - Change of Material for Electrical Wiring Accessories	0		08-Mar-22 A		16-Apr-25			
CE0328	NCE-PMI-0328 - Provision of Chequer Plates at SAS Pumping Station	0		22-Mar-22 A		16-Apr-25			
CE0329	NCE-PMI-0329 - Provision of IIB for FAT for Sludge Thickening and Dewatering Centrifuges	0		23-Mar-22 A		16-Apr-25			
CE0333	NCE-PMI-0333 - Revised MVAC Layout and Control Schematic for Workshop No.2	0		30-May-22 A		16-Apr-25			
CE0334	NCE-PMI-0334 - Provision of 1 Set of SWL 1 Tons Davit with Electrical Chain Hoist on the Roof of Distribution Chamber	0		02-Sep-22 A		16-Apr-25			
CE0335	NCE-PMI-0335 - Revised Power & Control for MVAC Provision at Workshop No.2	0		01-Apr-22 A		16-Apr-25			
CE0336	NCE-PMI-0336 - Provision of Additional Temporary Storage Area	0		30-Mar-22 A		16-Apr-25			
CE0337	NCE-PMI-0337 - Revised Pipe Trenches in Zone C	0		24-Mar-22 A		16-Apr-25			
CE0338	NCE-PMI-0338 - Provision of Additional RFID Handheld Readers with 4G Data SIM Card Service	0		01-Apr-22 A		16-Apr-25			
CE0339	NCE-PMI-0339 - Revised Lighting Layout for SDB	0		01-Apr-22 A		16-Apr-25			
CE0340	NCE-PMI-0340 - Buillding Services & SCADA Interface Provisions for Workshop No.2	0		01-Apr-22 A		16-Apr-25			
CE0341	NCE-PMI-0341 - Revised MVAC Layout for Sludge Digesters and Distribution Chamber	0		05-May-22 A		16-Apr-25			
CE0342	NCE-PMI-0342 - Provision and Installation of Additional Pipes to Manhole MHSS1	0		12-May-22 A		16-Apr-25			
CE0343	CNE-0343 - Inclement Weather - December 2021 (Time Implication)	0		01-Apr-22 A		16-Apr-25			
CE0344	CNE-0344 - Inclement Weather - January 2022 (Time Implication)	0		01-Apr-22 A		16-Apr-25			
CE0345	CNE-0345 - Inclement Weather - February 2022 (Time Implication)	0		01-Apr-22 A		16-Apr-25			
CE0346	NCE-CNE-0346 - Left in Temporary Steel Casing for Pile No. SSHP5 at Sidesteam Treatment Facilities	0		16-Nov-22 A		16-Apr-25			
CE0347	NCE-PMI-0347 - IIB for FAT for 11kV Switchboards	0		01-Apr-22 A		16-Apr-25			
CE0348	NCE-PMI-0348 - Provision of (IIB) for FAT for CHP Generating Sets	0		04-Apr-22 A		16-Apr-25			
CE0352	NCE-PMI-0352 - Revised MVAC Layout and for Transformer and Switch Room	0		10-Jun-22 A		16-Apr-25			
CE0353	NCE-PMI-0353 - Additional Auto-sampler for sampling Location at UV system No.1 and Effluent Pumping Station No.1	0		27-Apr-22 A		16-Apr-25			
CE0354	NCE-EWP-0354 - Early Deployment of Tower Crane to Enhance Programme affected by Uncharted U/U at STF	0		10-Jun-22 A		16-Apr-25			
CE0359	NCE-PMI-0359 - Revised Lighting Layout for Sludge Digesters and Districbution Chamber (Basement 1 and Basement 2)	0		16-May-22 A		16-Apr-25			
CE0360	NCE-PMI-0360 - Provision of Video Wall with Additional Monitors in the Control Room of Workshop No.2	0		29-Apr-22 A		16-Apr-25			
CE0361	NCE-PMI-0361 - Revised Power Layout for Sludge Dewatering Building	0		08-Jun-22 A		16-Apr-25			
CE0362	NCE-CNE-0362 - Amendment of Dangers Goods Ordinance (Cap.295)	0		19-Aug-22 A		16-Apr-25			
CE0363	NCE-PMI-0363 - Revised MVAC Layout and Control Schematic for CHP Building	0		30-May-22 A		16-Apr-25			
CE0364	NCE-PMI-0364 - Provision of Security and Utility Services for Additional Temporary Storage Area	0		16-May-22 A		16-Apr-25			



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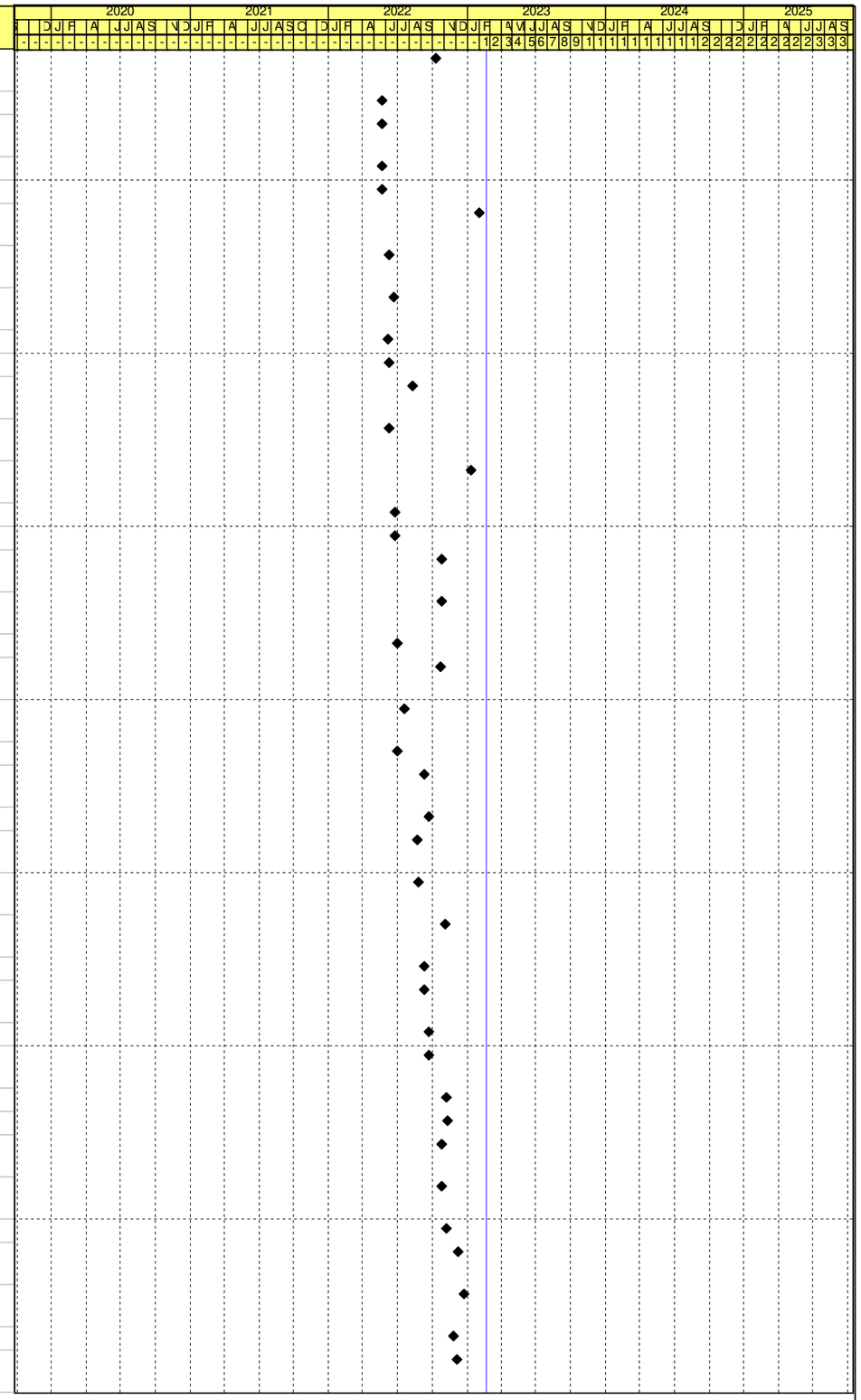
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
CE0364-1	NCE-PMI-0364-1 - Provision of Security and Utility Services for Additional Temporary Storage Area	0		10-Oct-22 A		16-Apr-25			
CE0366	CNE-0366 - No Access to and Use of Portion C-2B for Area for CHP	0		20-May-22 A		16-Apr-25			
CE0367	NCE-PMI-0367 - Sealing Works for UV System & Effluent Pumping Station No. 1	0		20-May-22 A		16-Apr-25			
CE0369	CNE-0369 - No Access to and use of Portion C-2C for Area for SD & DC	0		20-May-22 A		16-Apr-25			
CE0370	CNE-0370 - No Access to and Use of Portion C-2A for Area for SDB	0		20-May-22 A		16-Apr-25			
CE0370-1	RCNE-CNE-0370-1 - No Access to and Use of Portion C-2A for Area for Sludge Dewatering Building	0		31-Jan-23 A		16-Apr-25			
CE0372	NCE-PMI-0372 - Building Services Control & Monitoring Provisions for SDB & Gas Detection System for Pipe Tranch No.1	0		08-Jun-22 A		16-Apr-25			
CE0374	NCE-PMI-0374 - Revised Power Layout for SDDC & Control Provisions for Sump Pumps at Pipe Trench No.1 & No.2	0		20-Jun-22 A		16-Apr-25			
CE0375	NCE-PMI-0375 - Gas Detection System for Pipe Trench No.3 in Zone C	0		06-Jun-22 A		16-Apr-25			
CE0376	NCE-PMI-0376 - BS Provisions for SDDC (G/F & Roof) & Pipe Trench No.2	0		10-Jun-22 A		16-Apr-25			
CE0381	NCE-PMI-0381 - Employment of Temporary Staff under Job Creation Scheme 3.0 (JCS 3.0) under Anti-Epidemic Fund (AEF)	0		08-Aug-22 A		16-Apr-25			
CE0384	NCE-PMI-0384 - Enhanced Protective Measures against Spread of Omicron COVID Variant	0		08-Jun-22 A		16-Apr-25			
CE0384-1	NCE-PMI-0384-1 - Enhanced Protective Measures against Spread of Omicron COVID Variant	0		11-Jan-23 A		16-Apr-25			
CE0386	CNE-0386 - Inclement Weather - March 2022 (Time Implication)	0		24-Jun-22 A		16-Apr-25			
CE0387	CNE-0387 - Inclement Weather - April 2022 (Time Implication)	0		24-Jun-22 A		16-Apr-25			
CE0389	NCE-PMI-0389 - Enhancement of Ventilation for CHP Acoustic Enclosures at Combined Heat and Power Building	0		27-Oct-22 A		16-Apr-25			
CE0390	NCE-PMI-0390 - Electricity Supply for DSD Maintenance Works at Workshop No.2	0		26-Oct-22 A		16-Apr-25			
CE0391	CNE-0391 - Inclement Weather - May 2022 (Time Implication)	0		30-Jun-22 A		16-Apr-25			
CE0393	NCE-PMI-0393 - Automatic Changeover System for UV System No.1 in LV Switchboard at Transformer and Switchroom	0		22-Oct-22 A		16-Apr-25			
CE0395	NCE-PMI-0395 - Omission of the Set-up Work for Temporary Water and Electricity Supply for Works Area WA1-B	0		20-Jul-22 A		16-Apr-25			
CE0397	CNE-0397 - Inclement Weather - Jun 2022 (Time Implication)	0		30-Jun-22 A		16-Apr-25			
CE0398	CNE-0398 - Red Rainstorm Warning -June 2022 (Time and Cost Implication)	0		08-Sep-22 A		16-Apr-25			
CE0399	NCE-PMI-0399 - Revised MVAC Layout for Sludge Dewatering Building	0		22-Sep-22 A		16-Apr-25			
CE0400	NCE-PMI-0400 - Provision of High Tide Detection System for System No.1 and Effluent Pumping Station No. 1	0		23-Aug-22 A		16-Apr-25			
CE0402	NCE-PMI-0402 - Provision of Flow Control System for Effluent to Shek Sheung River	0		24-Aug-22 A		16-Apr-25			
CE0403	NCE-PMI-0403 - Revised MVAC Provisions for SDB, TX&Switchrrom, UV no.1 & EPS and FHBP Rm	0		03-Nov-22 A		16-Apr-25			
CE0405	CNE-0405 - Inclement Weather -July 2022 (Time Implication)	0		08-Sep-22 A		16-Apr-25			
CE0406	CNE-0406 - Tropical Cyclone Warning Signal No. 8 - July 2022 (Time and Cost Implication)	0		08-Sep-22 A		16-Apr-25			
CE0409	CNE-0409 - Inclement Weather -August 2022 (Time Implication)	0		22-Sep-22 A		16-Apr-25			
CE0410	CNE-0410 - Tropical Cyclone Warning Signal No. 8 - August 2022 (Time and Cost Implication)	0		22-Sep-22 A		16-Apr-25			
CE0411	NCE-PMI-0411 - Revised Lighting Design for CHP Building	0		07-Nov-22 A		16-Apr-25			
CE0412	NCE-PMI-0412 - Omission of the Works of CMMS & IDMS	0		09-Nov-22 A		16-Apr-25			
CE0413	NCE-PMI-0413 - MV for UV Plant Area (Level +4.9mPD) of UV System No.1 & Effluent Pumping Station No.1	0		25-Oct-22 A		16-Apr-25			
CE0414	NCE-PMI-0414 - Sample Collection and Analysis for Existing Sewage Treatment Facilities	0		27-Oct-22 A		16-Apr-25			
CE0415	NCE-PMI-0415 - Modification Works for Instrument of UV Channels	0		07-Nov-22 A		16-Apr-25			
CE0420	NCE-PMI-0420 - Pipework Modifcation for THP Feeding System (from SDB to THP)	0		09-Dec-22 A		16-Apr-25			
CE0421	NCE-PMI-0421 - Provision of BLI System for THP Feeding System at Sludge Dewatering Building	0		22-Dec-22 A		16-Apr-25			
CE0422	NCE-PMI-0422 - MVAC Provisions for Store at Workshop No. 2	0		25-Nov-22 A		16-Apr-25			
CE0423	NCE-PMI-0423 - Provision of Puddle Flanges for Draft Tube Mixer Installation at Sludge Digester No. 2	0		06-Dec-22 A		16-Apr-25			



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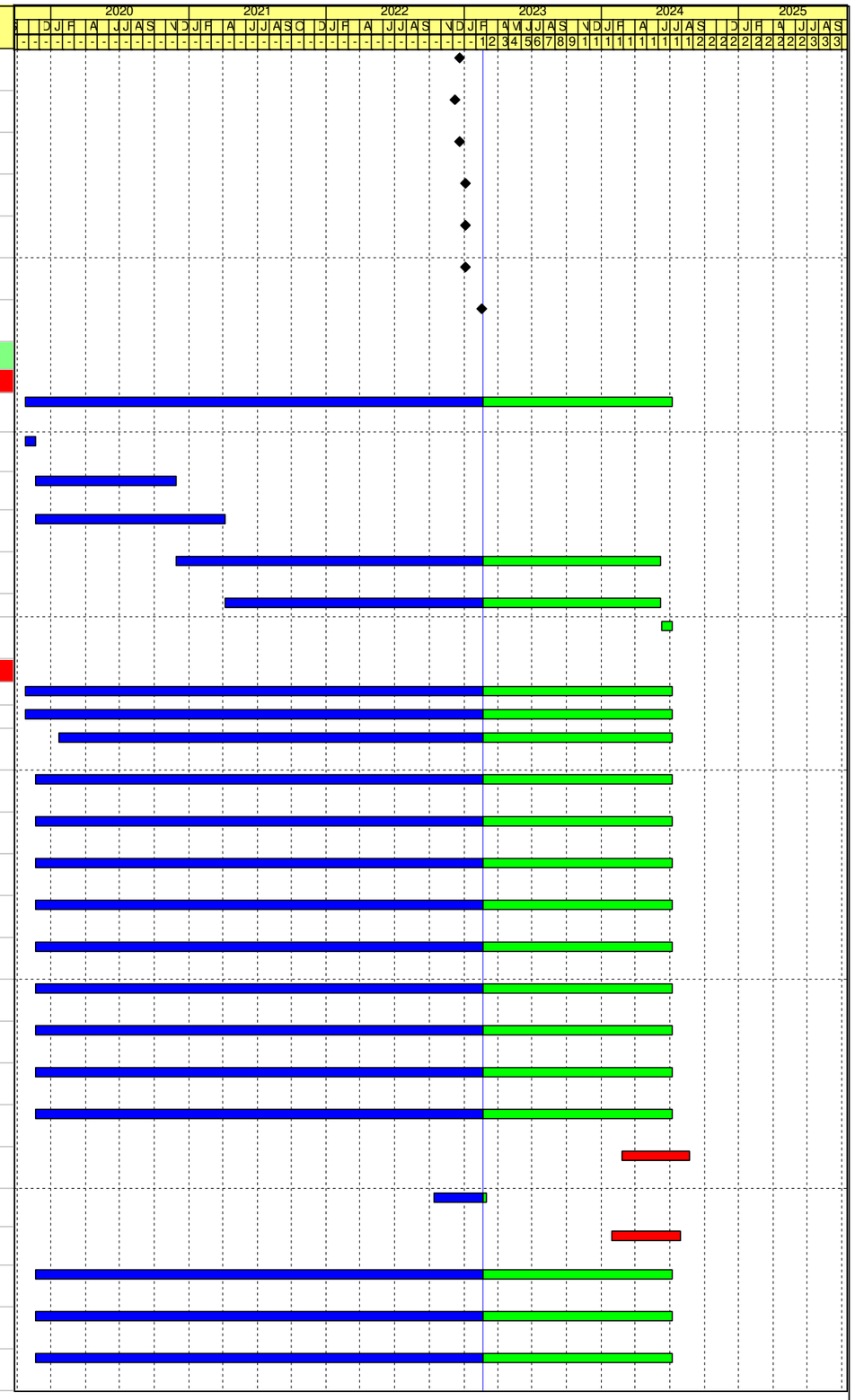
CE0424	NCE-PMI-0424 - Provision of Addtional Ethernet Module for Dual Ring in SCADA and PMS System	0		20-Dec-22 A		16-Apr-25			
CE0425	NCE-PMI-0425 - Provision of PLC Gateway for the Interface Work with Reclaimed Water Facilities in Zone D	0		09-Dec-22 A		16-Apr-25			
CE0429	NCE-PMI-0429 - Provision of Additional Access Platform for the EOT in CHP Building	0		20-Dec-22 A		16-Apr-25			
CE0430	NCE-PMI-0430 - Provision of Additional Lifting Davits for Thermal Hydrolysis Process (THP) System	0		05-Jan-23 A		16-Apr-25			
CE0433	CNE-0433 - Weather Conditions Affecting the Site in Nov 22 due to Amber Rainstorm warning, or Inclement Weather	0		05-Jan-23 A		16-Apr-25			
CE0434	CNE-0434 - Weather Condition Affecting the Site in Nov due to Typhoon Signal No.8 or above, Red/Black Rainstorm Warning	0		05-Jan-23 A		16-Apr-25			
CE0441	CNE-0441 - Weather Conditions Affecting the Site in Dec 22 due to Amber Rainstorm warning, or Inclement Weather	0		16-Feb-23 A		16-Apr-25			
Preliminaries		2003	23-Oct-19 A	16-Apr-25	06-Jul-22	16-Apr-25	0		
Mobilisation		1720	23-Oct-19 A	07-Jul-24	06-Jul-22	16-Apr-25	283		
PL1000	Provison of Equipment / Facilities for the PM's Office	1687	23-Oct-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	AD1200, AD1220,	CD1040
PL1010	Mobilisation	28	23-Oct-19 A	19-Nov-19 A	06-Jul-22	06-Jul-22		CD1010	PL1240, S2P1010,
PL1020	Design, Procurement & PO & Construction of Contractor's Site Office (Works Area WA1-B)	270	20-Nov-19 A	27-Nov-20 A	18-Oct-22	18-Oct-22		AD1200, PL1010	PL1040, S2D1930,
PL1030	Design, Procurement & PO & Construction of Contractor's Storage Area (Works Area WA3)	503	20-Nov-19 A	05-Apr-21 A	01-Dec-23	01-Dec-23		AD1220, PL1010	PL1050
PL1040	Maintain Contractor's Site Office	1255	28-Nov-20 A	07-Jun-24	01-Dec-23	17-Mar-25	283	PL1020	PL1060
PL1050	Maintain Contractor's Storage Area	1126	06-Apr-21 A	07-Jun-24	01-Dec-23	17-Mar-25	283	PL1030	PL1060
PL1060	Removal of Site Office, Storage & Relevant Facilities	30	08-Jun-24	07-Jul-24	18-Mar-25	16-Apr-25	283	PL1040, PL1050	CD1040
Site Preliminaries		2003	23-Oct-19 A	16-Apr-25	16-Oct-23	16-Apr-25	0		
PL1070	Provision of Insurance, Third Party Insurances & PII	1687	23-Oct-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010	CD1040
PL1080	Provision of 2 Contract Car for the Use of the PM & Supervisor	1687	23-Oct-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010	CD1040
PL1090	Provision of 1 Electric Car for the Use of the PM & Supervisor	1596	22-Jan-20 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1100	Provision of Photographs	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1110	Provision of Environmental Mitigation Measures	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1120	Provision of Air Pollution Abatment	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1130	Provision of Noise Pollution Abatment	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1140	Provision of Wastewater Pollution Abatement	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1150	Provision of Wastement Management	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1160	Provision of Monitoring the Use of Ultra Low Sulphur Diesel	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1170	Provision of Environmental Management	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1180	Provision of Site Management Plan for Trip Ticket System	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1190	Provision of As-constructed Drawings for Section 3	180	26-Feb-24	23-Aug-24	15-Dec-23	12-Jun-24	-73	CD1010, S3C1150	CD1040, SC31110
PL1200	Provision of As-constructed Drawings for Section 4	60	13-Oct-22 A	02-Mar-23	07-Apr-25	16-Apr-25	776	CD1010, S4C1160,	CD1040, SC41110
PL1210	Provision of As-constructed Drawings for Section 5	180	30-Jan-24	27-Jul-24	25-Nov-23	22-May-24	-66	CD1010, S5DIGC1040,	CD1040, SC51110
PL1220	Provision of Systematic Risk Management	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1230	Provision of Site Liaison Group & Community Liaison Group	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
PL1240	Provision of 24-Hour Telephone Line	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040



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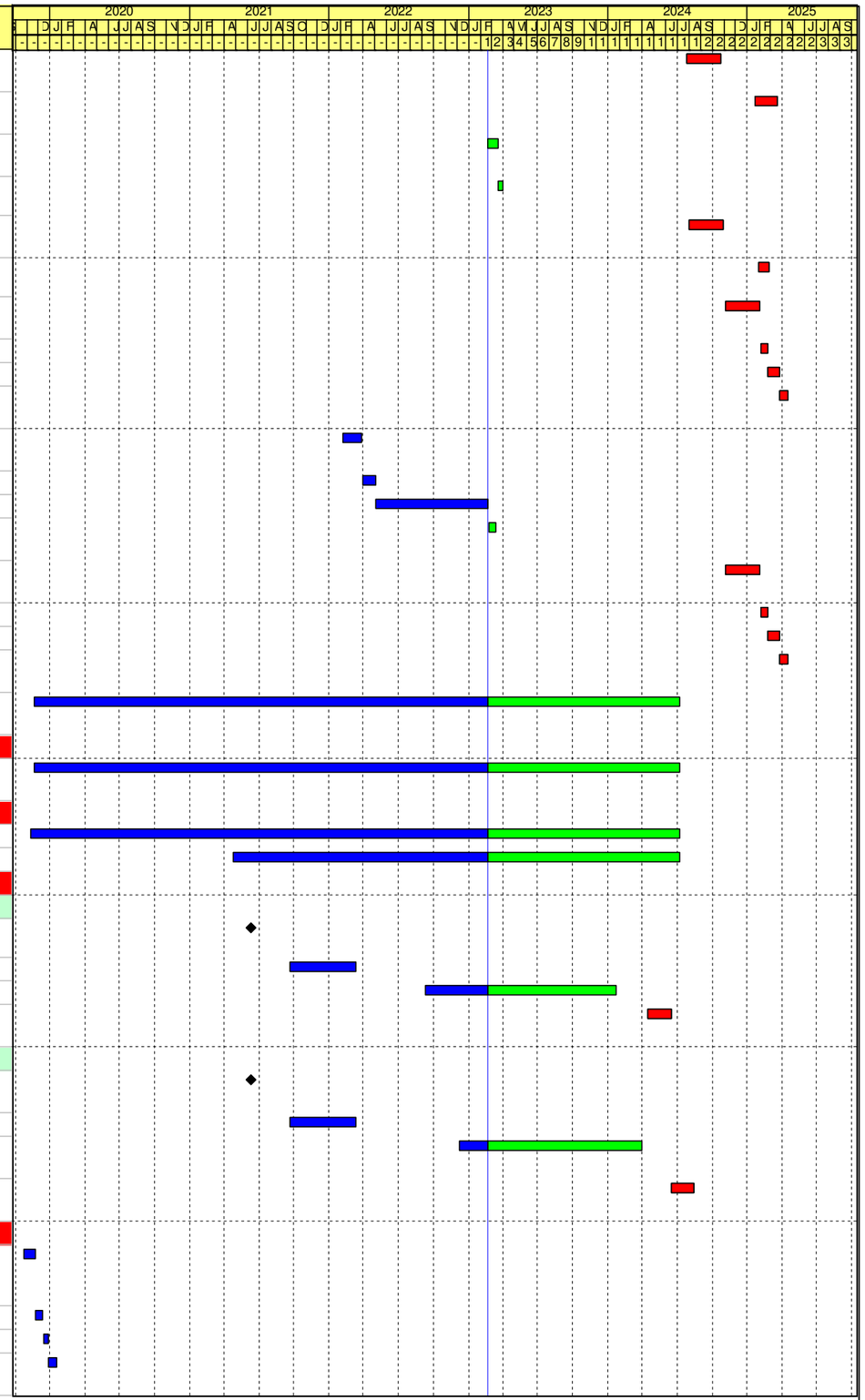
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
PL1260	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 3	90	25-Jul-24	22-Oct-24	16-Oct-23	14-Jan-24	-283		PL1270
PL1270	Provision of Training for Employer's Staff for Section 3	60	21-Jan-25	21-Mar-25	13-Apr-24	12-Jun-24	-283	CD1010, PL1260	CD1040, SC31110
PL1280	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 4	27	21-Feb-23	19-Mar-23	09-Mar-25	04-Apr-25	747		PL1290
PL1290	Provision of Training for Employer's Staff for Section 4	12	20-Mar-23	31-Mar-23	05-Apr-25	16-Apr-25	747	CD1010, S4T1020,	CD1040, SC41110
PL1300	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 5	90	02-Aug-24	30-Oct-24	26-Oct-23	23-Jan-24	-281		PL1310
PL1310	Provision of Training for Employer's Staff for Section 5	30	29-Jan-25	27-Feb-25	23-Apr-24	22-May-24	-281	CD1010, S5T1180,	CD1040, SC51110
PL1320	Prepare & Submit O&M Manual for Section 3	90	06-Nov-24	03-Feb-25	28-Jan-24	27-Apr-24	-283	CD1010	CD1040, PL1330
PL1330	PM Reivew & Comment O&M Manual for Section 3	21	04-Feb-25	24-Feb-25	27-Apr-24	18-May-24	-283	PL1320	PL1340
PL1340	Revise & Re-submit O&M Manual for Section 3	30	25-Feb-25	26-Mar-25	18-May-24	17-Jun-24	-283	PL1330	PL1350
PL1350	PM Reivew & Approval of O&M Manual for Section 3	21	27-Mar-25	16-Apr-25	17-Jun-24	08-Jul-24	-283	PL1340	CD1040, SC31110
PL1360	Prepare & Submit O&M Manual for Section 4	50	07-Feb-22 A	28-Mar-22 A	26-Mar-25	26-Mar-25		CD1010	CD1040, PL1370
PL1370	PM Reivew & Comment O&M Manual for Section 4	36	29-Mar-22 A	03-May-22 A	26-Mar-25	26-Mar-25		PL1360	PL1380
PL1380	Revise & Re-submit O&M Manual for Section 4	79	04-May-22 A	21-Feb-23	26-Mar-25	26-Mar-25	764	PL1370	PL1390
PL1390	PM Reivew & Approval of O&M Manual for Section 4	21	22-Feb-23	14-Mar-23	27-Mar-25	16-Apr-25	764	PL1380	CD1040, SC41110
PL1400	Prepare & Submit O&M Manual for Section 5	90	06-Nov-24	03-Feb-25	08-Jan-24	06-Apr-24	-303	CD1010	CD1040, PL1410
PL1410	PM Reivew & Comment O&M Manual for Section 5	21	04-Feb-25	24-Feb-25	07-Apr-24	27-Apr-24	-303	PL1400	PL1420
PL1420	Revise & Re-submit O&M Manual for Section 5	30	25-Feb-25	26-Mar-25	28-Apr-24	27-May-24	-303	PL1410	PL1430
PL1430	PM Reivew & Approval of O&M Manual for Section 5	21	27-Mar-25	16-Apr-25	28-May-24	17-Jun-24	-303	PL1420	CD1040, SC51110
PL1440	Provision of ICE for Certification of the Design, Cal, Dwgs, Plans and all relevant Doc and Process Commissioning	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
Site Upkeeping		1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283		
PL1450	General Site Upkeeping of the Site	1659	20-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1010, PL1010	CD1040
Safety and Environmental Management		1675	10-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283		
PL1460	Construction Health and Safety Plan	1669	10-Nov-19 A	07-Jul-24	01-Dec-23	16-Apr-25	283	CD1000	CD1040
PL1470	Site Traffic Safety Management Plan	1137	25-Apr-21 A	07-Jul-24	01-Dec-23	16-Apr-25	283	AD1010	CD1040
Compliance with BEAM Requirements		1129	11-Jun-21 A	13-Aug-24	12-Mar-23	17-Jun-24	-57		
Sludge Dewatering Building		1069	11-Jun-21 A	14-Jun-24	20-May-23	17-Jun-24	3		
PL1490	Material Submission & Design Calculation Approved	0		11-Jun-21 A		20-May-23		S2D1290, S2D1330,	PL1500, SC21120
PL1500	Issued approved submission & Calculation to Cinotech	161	21-Sep-21 A	11-Mar-22 A	20-May-23	20-May-23		PL1490	PL1510
PL1510	Monthly Review & Submission	500	09-Sep-22 A	21-Jan-24	20-May-23	18-Apr-24	88	PL1500	PL1520
PL1520	Submission & Approval of Test Record	60	16-Apr-24	14-Jun-24	19-Apr-24	17-Jun-24	3	PL1510, S5T1060	SC51120
CHP Building		1129	11-Jun-21 A	13-Aug-24	12-Mar-23	17-Jun-24	-57		
PL1530	Material Submission & Design Calculation Approved	0		11-Jun-21 A		12-Mar-23		S2D1610	PL1540, SC21120
PL1540	Issued approved submission & Calculation to Cinotech	168	21-Sep-21 A	11-Mar-22 A	12-Mar-23	12-Mar-23		PL1530	PL1550
PL1550	Monthly Review & Submission	480	07-Dec-22 A	30-Mar-24	12-Mar-23	18-Apr-24	19	S5CHPC1020, PL1540	PL1560
PL1560	Submission & Approval of Test Record	60	15-Jun-24	13-Aug-24	19-Apr-24	17-Jun-24	-57	PL1550, S5T1100	SC51120
BIM		1623	24-Oct-19 A	02-Apr-24	06-Mar-24	16-Apr-25	379		
PL1570	Prepare & Submit Construction Stage BIM Execution Plan	30	24-Oct-19 A	22-Nov-19 A	06-Mar-24	06-Mar-24		CD1010	PL1580, PL1630, PL1620
PL1580	PM Reivew & Comment Construction Stage BIM Execution Plan	21	23-Nov-19 A	13-Dec-19 A	06-Mar-24	06-Mar-24		PL1570	PL1590
PL1590	Revise & Re-submit Construction Stage BIM Execution Plan	14	14-Dec-19 A	27-Dec-19 A	06-Mar-24	06-Mar-24		PL1580	PL1600
PL1600	PM Reivew & Approval of Construction Stage BIM Execution Plan	21	28-Dec-19 A	17-Jan-20 A	06-Mar-24	06-Mar-24		PL1590	PL1630, PL1620



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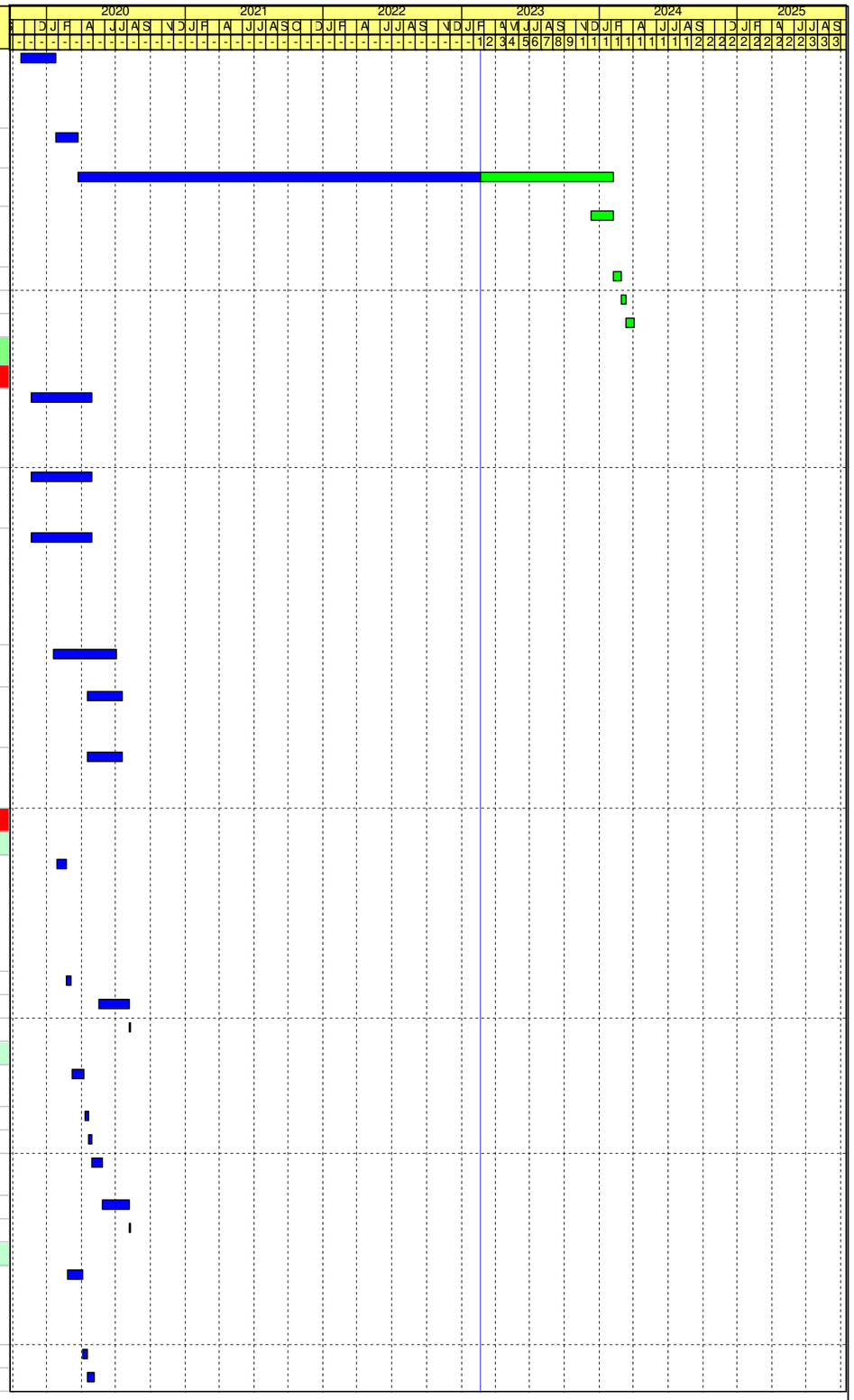
PL1610	Contractor Review & Study Design Stage BIM	92	24-Oct-19 A	23-Jan-20 A	06-Mar-24	06-Mar-24		CD1010	CD1040, PL1640, PL1630, PL1620
PL1620	Contractor Develop 1st Construction Stage BIM	60	24-Jan-20 A	23-Mar-20 A	06-Mar-24	06-Mar-24		PL1600, PL1570,	CD1040, PL1640,
PL1630	Review & Update BIM Execution Plan & BIM Model	1415	24-Mar-20 A	06-Feb-24	06-Mar-24	19-Feb-25	379	PL1570, PL1620,	CD1040, PL1640
PL1640	Prepare & Submit the Fully Coordinated BIM	60	09-Dec-23	06-Feb-24	22-Dec-24	19-Feb-25	379	PL1620, PL1630, PL1610	PL1650
PL1650	PM Reivew & Comment Fully Coordinated BIM	21	07-Feb-24	27-Feb-24	20-Feb-25	12-Mar-25	379	PL1640	PL1660
PL1660	Revise & Re-submit Fully Coordinated BIM	14	28-Feb-24	12-Mar-24	13-Mar-25	26-Mar-25	379	PL1650	PL1670
PL1670	PM Reivew & Approval of Fully Coordinated BIM	21	13-Mar-24	02-Apr-24	27-Mar-25	16-Apr-25	379	PL1660	CD1040
Section 1 - Design for UV System No. 1 & Effluent Pumping Station No.1		284	21-Nov-19 A	08-Aug-20 A	06-Jul-22	16-Apr-25			
Major Plant & Materials Procurement		240	21-Nov-19 A	17-Jul-20 A	06-Jul-22	18-Feb-23			
S1P1000	Procurement & PO for UV Disinfection System (S10)	150	21-Nov-19 A	28-Apr-20 A	06-Jul-22	06-Jul-22		CD1000, CD1010, PL1010	SC11110, S4P1040, S1D1000, S1P1030
S1P1010	Procurement & PO for Lift-up Pumps (S11)	150	21-Nov-19 A	28-Apr-20 A	06-Jul-22	06-Jul-22		CD1010, PL1010	SC11110, S4P1070, S1D1000
S1P1020	Procurement & PO for Transfer Pumps (S13)	150	21-Nov-19 A	28-Apr-20 A	06-Jul-22	06-Jul-22		CD1010, PL1010	SC11110, S4P1080, S1P1040, S1P1050, S1D1000, S4P1090
S1P1030	Procurement & PO for EOT Cranes (2T & 5T) (S19)	150	19-Jan-20 A	03-Jul-20 A	18-Feb-23	18-Feb-23		S1P1000	SC11110, S4P1100
S1P1040	Procurement & PO for Stoplogs (S21)	90	18-Apr-20 A	17-Jul-20 A	18-Feb-23	18-Feb-23		S1P1020, PL1010	SC11110, S4P1110, S2P1160
S1P1050	Procurement & PO for Penstocks (S21)	90	18-Apr-20 A	17-Jul-20 A	18-Feb-23	18-Feb-23		S1P1020, PL1010	SC11110, S4P1120, S2P1170
Design & Submission		217	27-Jan-20 A	08-Aug-20 A	06-Jul-22	16-Apr-25			
General Arrangement Drawings		217	27-Jan-20 A	08-Aug-20 A	06-Jul-22	16-Apr-25			
S1D1000	Prepare & Submit General Arrangement Drawings	90	27-Jan-20 A	19-Feb-20 A	06-Jul-22	06-Jul-22		S1P1000, S1P1010, S1P1020, PL1010	S1D1010, S1D1040, S1D1100, S1D1180, S1D1260, S4P1010
S1D1010	Review & Comment on General Arrangement Drawings by PM	21	20-Feb-20 A	04-Mar-20 A	16-Apr-25	16-Apr-25		S1D1000	S1D1020
S1D1020	Revise & Re-submit General Arrangement Drawings	14	16-May-20 A	05-Aug-20 A	16-Apr-25	16-Apr-25		S1D1010	S1D1030
S1D1030	Review & Accept of General Arrangement Drawings by PM	5	06-Aug-20 A	08-Aug-20 A	16-Apr-25	16-Apr-25		S1D1020	SC11110
Civil & Dimensional / Tolerance Requirement Drawings		176	07-Mar-20 A	08-Aug-20 A	18-Feb-23	16-Apr-25			
S1D1040	Prepare & Submit Civil Requirement Drawings	60	07-Mar-20 A	08-Apr-20 A	18-Feb-23	18-Feb-23		CD1010, S1D1000	S1D1050, KD1000
S1D1050	Review & Comment on Civil Requirement Drawings by PM	21	09-Apr-20 A	20-Apr-20 A	16-Apr-25	16-Apr-25		S1D1040	S1D1060
S1D1060	Revise & Re-submit Civil Requirement Drawings	14	21-Apr-20 A	29-Apr-20 A	16-Apr-25	16-Apr-25		S1D1050	S1D1070
S1D1070	Review & Comment of Civil Requirement Drawings by PM	21	30-Apr-20 A	25-May-20 A	16-Apr-25	16-Apr-25		S1D1060	SC11110, S1D1080
S1D1080	Revise & Re-submit Civil Requirement Drawings	28	26-May-20 A	05-Aug-20 A	16-Apr-25	16-Apr-25		S1D1070	S1D1090
S1D1090	Review & Accept of Civil Requirement Drawings by PM	5	06-Aug-20 A	08-Aug-20 A	16-Apr-25	16-Apr-25		S1D1080	SC11110
Electrical Schematic Drawings		116	25-Feb-20 A	03-Jun-20 A	06-Jul-22	06-Jul-22			
S1D1100	Prepare & Submit Elec. Schematic Drawings	60	25-Feb-20 A	03-Apr-20 A	06-Jul-22	06-Jul-22		CD1010, S1D1000	S1D1110, KD1000, S1D1140, S1D1220
S1D1110	Review & Comment on Elec. Schematic Drawings by PM	21	04-Apr-20 A	16-Apr-20 A	06-Jul-22	06-Jul-22		S1D1100	S1D1120
S1D1120	Revise & Re-submit Elec. Schematic Drawings	14	17-Apr-20 A	04-May-20 A	06-Jul-22	06-Jul-22		S1D1110	S1D1130



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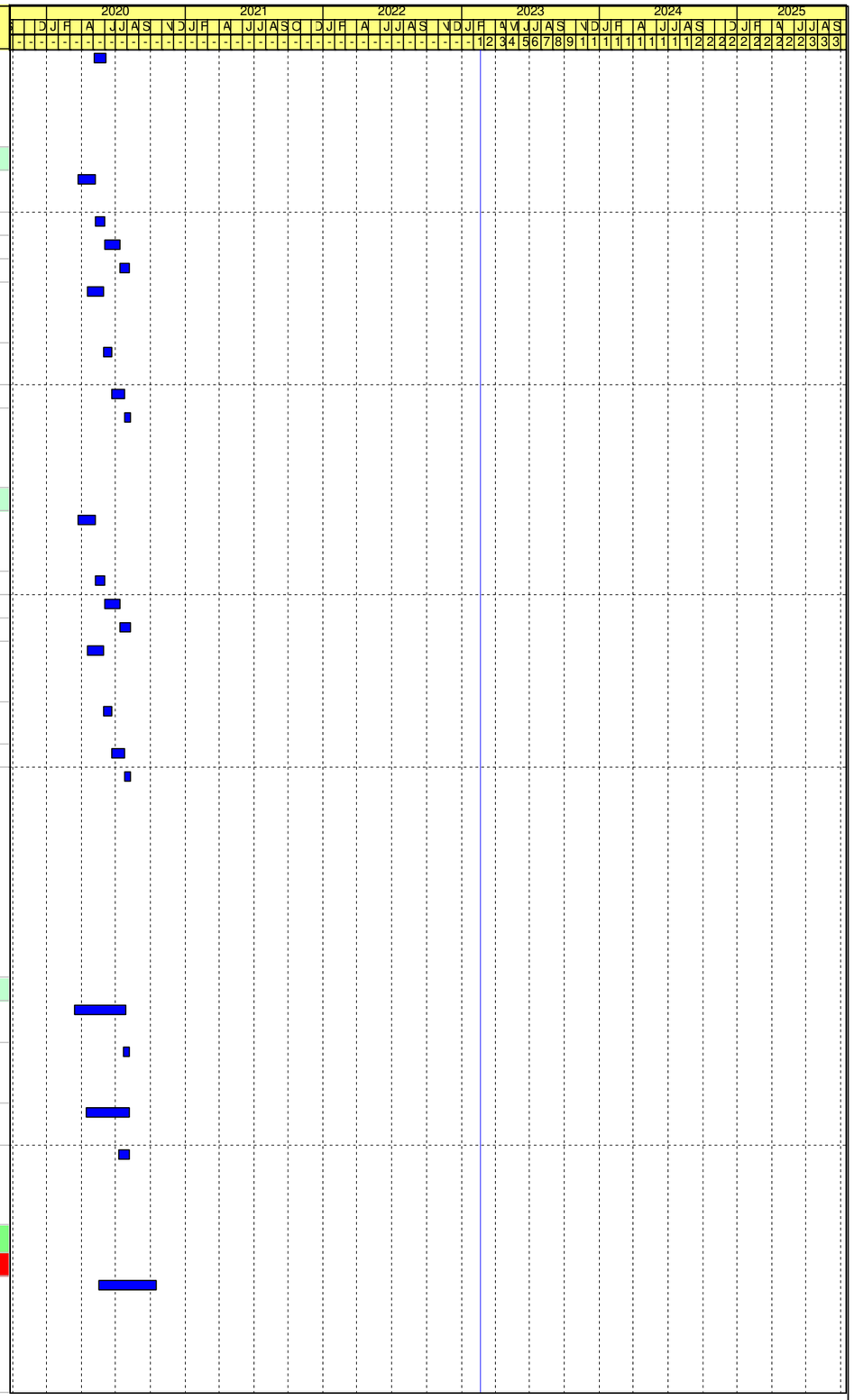
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S1D1130	Review & Accept of Elec. Schematic Drawings by PM	21	05-May-20 A	03-Jun-20 A	06-Jul-22	06-Jul-22		S1D1120	S5TXRP1000, S4C1000, S4C1010, S4P1020, SC11110
UV System No. 1		146	24-Mar-20 A	08-Aug-20 A	06-Jul-22	16-Apr-25			
S1D1140	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	60	24-Mar-20 A	08-May-20 A	06-Jul-22	06-Jul-22		CD1010, S1D1100	S1D1150, S1D1180
S1D1150	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	09-May-20 A	01-Jun-20 A	16-Apr-25	16-Apr-25		S1D1140	S1D1160
S1D1160	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14	02-Jun-20 A	10-Jul-20 A	16-Apr-25	16-Apr-25		S1D1150	S1D1170
S1D1170	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	11-Jul-20 A	06-Aug-20 A	16-Apr-25	16-Apr-25		S1D1160	SC11110
S1D1180	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	60	15-Apr-20 A	29-May-20 A	06-Jul-22	06-Jul-22		CD1010, S1D1140, S1D1000	S1D1190, S4C1020
S1D1190	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	30-May-20 A	19-Jun-20 A	06-Jul-22	06-Jul-22		S1D1180	S1D1200
S1D1200	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14	20-Jun-20 A	23-Jul-20 A	06-Jul-22	06-Jul-22		S1D1190	S1D1210
S1D1210	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14	24-Jul-20 A	08-Aug-20 A	06-Jul-22	06-Jul-22		S1D1200	S4P1040, S5TXRP1000, S5TXRP1010, SC11110
Effluent Pumping Station No. 1		139	24-Mar-20 A	08-Aug-20 A	06-Jul-22	16-Apr-25			
S1D1220	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	60	24-Mar-20 A	08-May-20 A	06-Jul-22	06-Jul-22		CD1010, S1D1100	S1D1230, S1D1260, S1D1300
S1D1230	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	09-May-20 A	01-Jun-20 A	16-Apr-25	16-Apr-25		S1D1220	S1D1240
S1D1240	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	14	02-Jun-20 A	10-Jul-20 A	16-Apr-25	16-Apr-25		S1D1230	S1D1250
S1D1250	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	11-Jul-20 A	08-Aug-20 A	16-Apr-25	16-Apr-25		S1D1240	SC11110
S1D1260	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	60	15-Apr-20 A	29-May-20 A	06-Jul-22	06-Jul-22		CD1010, S1D1220, S1D1000	S1D1270, S4C1020
S1D1270	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	30-May-20 A	19-Jun-20 A	06-Jul-22	06-Jul-22		S1D1260	S1D1280
S1D1280	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	14	20-Jun-20 A	23-Jul-20 A	06-Jul-22	06-Jul-22		S1D1270	S1D1290
S1D1290	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	14	24-Jul-20 A	08-Aug-20 A	06-Jul-22	06-Jul-22		S1D1280	S4P1110, S4P1120, S4P1070, S4P1080, S4P1090, S4P1100, S5TXRP1000, S5TXRP1010, S5TXRP1020, S4P1130, SC11110
Building Services		147	15-Mar-20 A	06-Aug-20 A	30-Oct-22	07-Apr-25			
S1D1300	Prepare & Submit BS Works Design & Dwgs UV System No.1 & Effluent Pumping Station No.1	90	15-Mar-20 A	27-Jul-20 A	30-Oct-22	30-Oct-22		S1D1220	S1D1320, S1D1310
S1D1310	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	30-Oct-22	30-Oct-22		S1D1300	SC11110, S5TXRC1030, S4C1110
S1D1320	Prepare & Submit FS Works Design & Dwgs UV System No.1 & Effluent Pumping Station No.1	60	14-Apr-20 A	05-Aug-20 A	07-Apr-25	07-Apr-25		S1D1300	S1D1330
S1D1330	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	07-Apr-25	07-Apr-25		S1D1320	SC11110, S4P1030, S4P1140, S4P1150
Section 2 - Complete All Designs (exclude Sec. 1 & 3)		943	20-Nov-19 A	21-Feb-23	31-Oct-21	16-Apr-25	785		
Major Plant & Materials Procurement		571	20-Nov-19 A	23-Apr-21 A	06-Jul-22	16-Apr-25			
S2P1000	Procurement & PO for Sludge Screening System (S2)	150	18-May-20 A	16-Oct-20 A	21-Sep-22	21-Sep-22		S2P1020	SC21110, S2D1260, S5P1000, S2P1060, S2P1150, S5P1030



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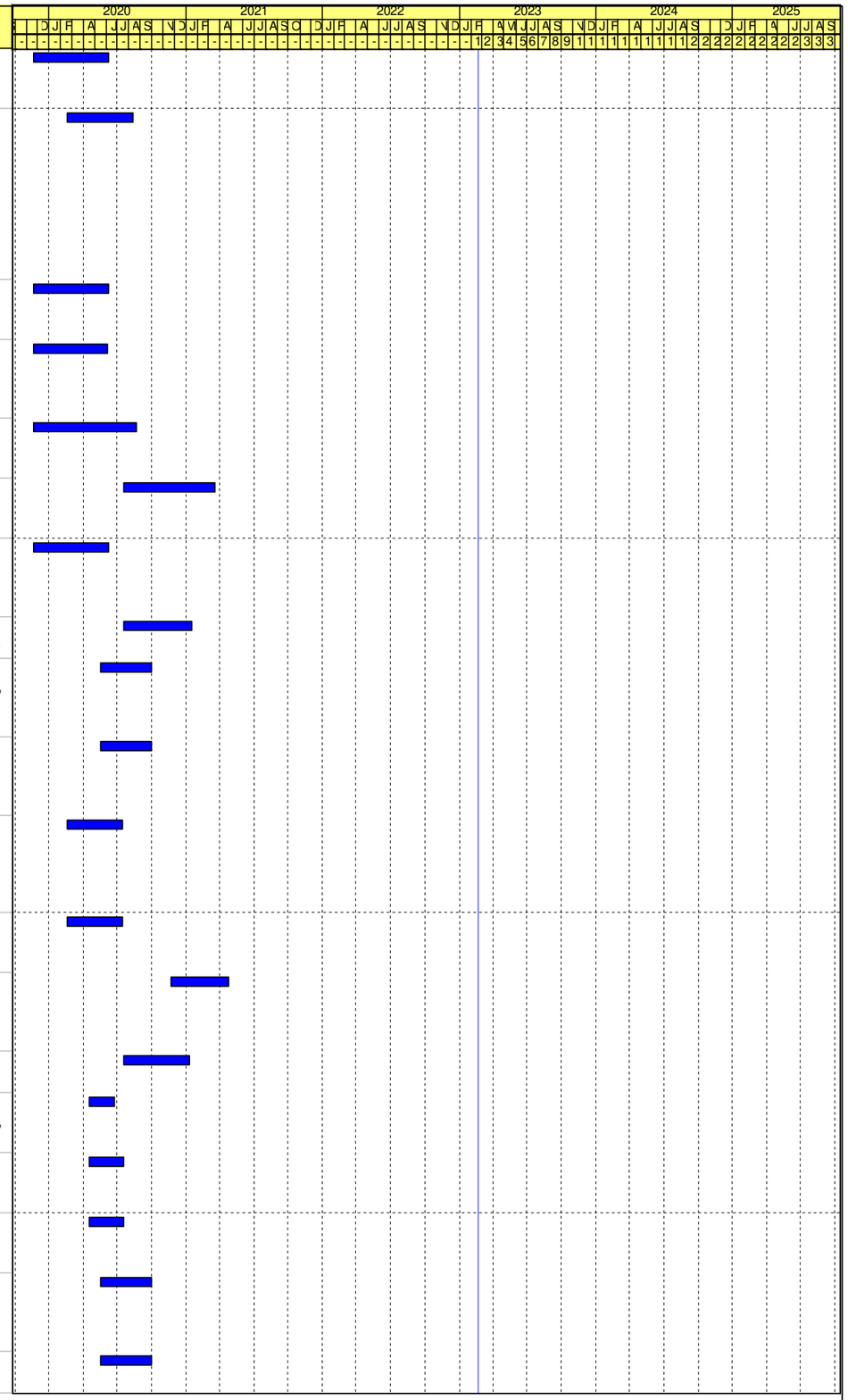
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S2P1010	Procurement & PO for Sludge Thickening System (S3)	180	20-Nov-19 A	08-Jun-20 A	21-Sep-22	21-Sep-22		PL1010, CD1010	SC21110, S2D1300, S2P1030
S2P1020	Procurement & PO for Sludge Digestion System (S5)	150	18-Feb-20 A	12-Aug-20 A	09-Sep-22	09-Sep-22		CD1010, S2P1040	SC21110, S5DIGP1000, S2D1420, S5DIGP1010, S2P1180, S2P1210, S5P1040, S2P1000, S5P1020
S2P1030	Procurement & PO for Sludge Dewatering System (S6)	180	20-Nov-19 A	08-Jun-20 A	21-Sep-22	21-Sep-22		PL1010, CD1010, S2P1010	SC21110, S2D1460
S2P1040	Procurement & PO for THP System (S4)	180	20-Nov-19 A	05-Jun-20 A	03-Aug-22	03-Aug-22		CD1010, PL1010	SC21110, S5THPP1000, S2D1340, S2P1020
S2P1050	Procurement & PO for Biogas Holding Tanks(S7)	180	20-Nov-19 A	20-Aug-20 A	21-Sep-22	21-Sep-22		PL1010	SC21110, S5BIOP1010, S2D1500
S2P1060	Procurement & PO for H2S Removal System (S7)	234	17-Jul-20 A	17-Mar-21 A	21-Sep-22	21-Sep-22		S2P1000	SC21110, S5H2SP1000, S2D1500
S2P1070	Procurement & PO for CHP System (S8)	180	20-Nov-19 A	08-Jun-20 A	06-Jul-22	06-Jul-22		PL1010	SC21110, S5CHPP1010, S2D1540, S2P1110
S2P1080	Procurement & PO for Waste Gas Burning System (S9)	150	17-Jul-20 A	15-Jan-21 A	13-Dec-22	13-Dec-22			SC21110, S5WGBP1000
S2P1090	Procurement & PO for Plant Service Water System (S12)	150	18-May-20 A	30-Sep-20 A	12-Aug-22	12-Aug-22			SC21110, S5PSWP1000, S2D1660, S2P1190
S2P1100	Procurement & PO for SAS Pumping System (S14)	150	18-May-20 A	30-Sep-20 A	20-Dec-22	20-Dec-22			SC21110, S5SASP1000, S2D1700, S2P1220
S2P1110	Procurement & PO for Transfomers (S17)	150	18-Feb-20 A	13-Jul-20 A	06-Jul-22	06-Jul-22		S2P1070	SC21110, S5WS2P1000, S2P1120, S2P1140, S5TXRP1000
S2P1120	Procurement & PO for 11 kV Switchboard (S17)	150	18-Feb-20 A	13-Jul-20 A	10-Sep-22	10-Sep-22		S2P1110	SC21110, S5WS2P1060, S2P1130
S2P1130	Procurement & PO for 380V Switchboard (S17)	174	21-Nov-20 A	23-Apr-21 A	10-Sep-22	10-Sep-22		S2P1120, S2D1220	SC21110, S5WS2P1090, S5P1050, S5TXRP1010
S2P1140	Procurement & PO for Control & Monitoring System (S18)	183	17-Jul-20 A	11-Jan-21 A	14-Oct-22	14-Oct-22		PL1010, S2P1110	SC21110, S5TXRP1020
S2P1150	Procurement & PO for DO System (S21)	150	15-Apr-20 A	24-Jun-20 A	18-Nov-22	18-Nov-22		S2P1000	SC21110, S5DOUP1000, S2D1930
S2P1160	Procurement & PO for Stoplog (S21)	90	18-Apr-20 A	17-Jul-20 A	03-May-23	03-May-23		PL1010, S1P1040	SC21110, S5SASP1010, S2P1170
S2P1170	Procurement & PO for Penstock (S21)	90	18-Apr-20 A	17-Jul-20 A	03-May-23	03-May-23		PL1010, S2P1160, S1P1050	SC21110, S5SASP1020
S2P1180	Procurement & PO for Sewage Pump (S21)	120	18-May-20 A	30-Sep-20 A	05-Dec-22	05-Dec-22		S2P1020	SC21110, S5SPSP1000, S2D1940, S2P1200
S2P1190	Procurement & PO for Process Water Pump (S21)	120	18-May-20 A	30-Sep-20 A	16-Apr-25	16-Apr-25		S2P1090	SC21110, S2D1950



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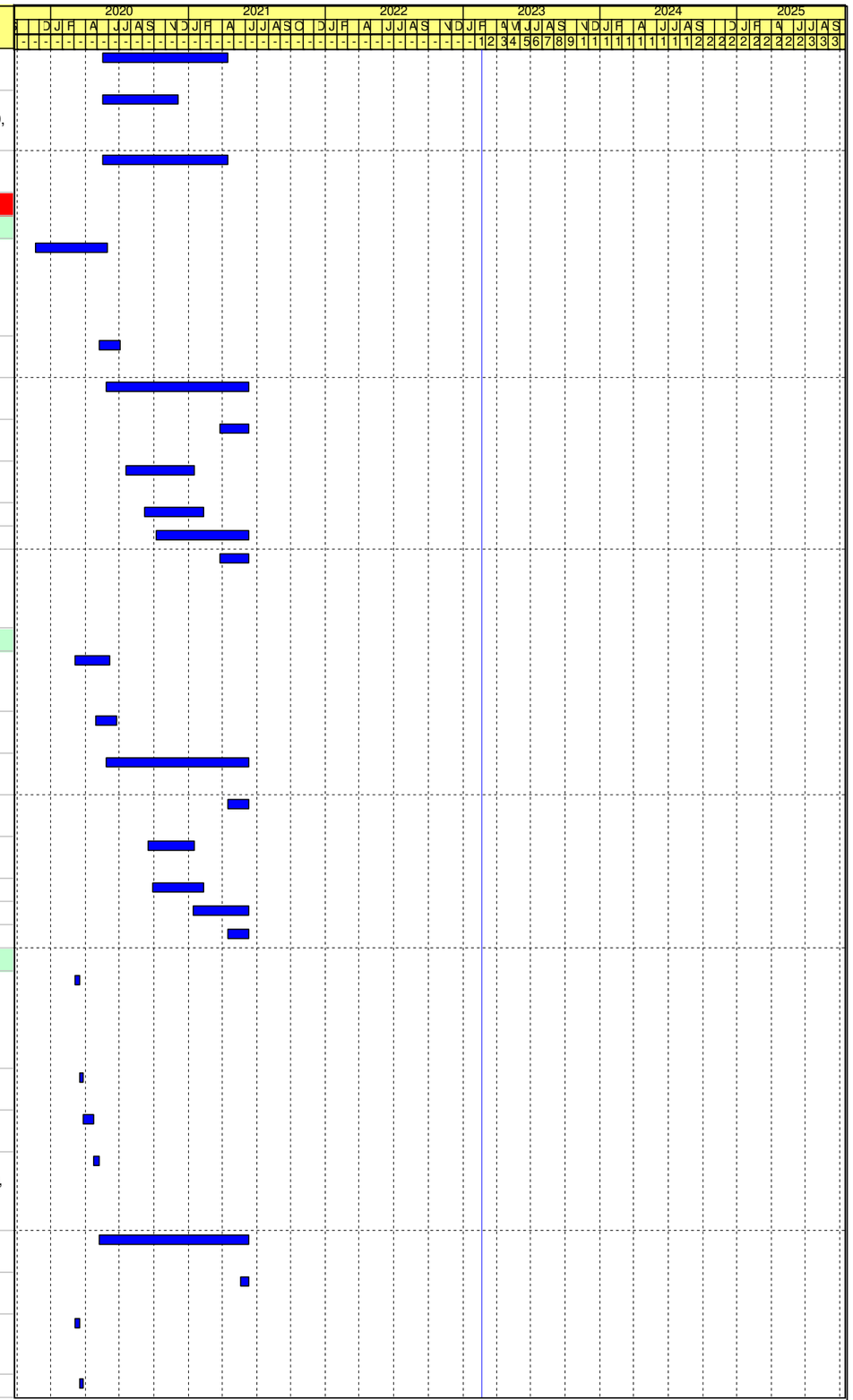
S2P1200	Procurement & PO for External Sludge Transfer Pump (S21)	348	18-May-20 A	14-Apr-21 A	07-Jan-23	07-Jan-23		S2P1180	SC21110, S2D1960
S2P1210	Procurement & PO for THP Cooling Pump (S21)	150	18-May-20 A	04-Dec-20 A	07-Jan-23	07-Jan-23		S2P1020	SC21110, S5TCWP1000, S2D1970
S2P1220	Procurement & PO for Temporary Primary Sludge Pump (S21)	348	18-May-20 A	14-Apr-21 A	20-Dec-22	20-Dec-22		PL1010, S2P1100	SC21110, S5ECHP1000
Design & Submission		860	20-Nov-19 A	11-Jun-21 A	09-Jun-22	16-Apr-25			
General Arrangement Drawings		715	20-Nov-19 A	11-Jun-21 A	02-Aug-22	16-Apr-25			
S2D1000	Prepare & Submit General Arrangement Drawings (from formation level up to +8mPD)	180	20-Nov-19 A	29-May-20 A	02-Aug-22	02-Aug-22		PL1010	S2D1010, S2D1080, S2D1160, S2D1040, S2D1340
S2D1010	Review & Comment on General Arrangement Drawings by PM (from formation level up to +8mPD)	21	07-May-20 A	02-Jul-20 A	16-Apr-25	16-Apr-25		S2D1000	S2D1020
S2D1020	Revise & Re-submit General Arrangement Drawings (from formation level up to +8mPD)	381	26-May-20 A	10-Jun-21 A	16-Apr-25	16-Apr-25		S2D1010	S2D1030
S2D1030	Review & Accept of General Arrangement Drawings by PM (from formation level up to +8mPD)	77	26-Mar-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2D1020	SC21110
S2D1040	Prepare & Submit General Arrangement Drawings (remaining)	177	17-Jul-20 A	15-Jan-21 A	02-Aug-22	02-Aug-22		PL1010, S2D1000	S2D1050, S2D1120
S2D1050	Review & Comment on General Arrangement Drawings by PM (remaining)	21	05-Sep-20 A	08-Feb-21 A	02-Aug-22	02-Aug-22		S2D1040	S2D1060
S2D1060	Revise & Re-submit General Arrangement Drawings (remaining)	248	06-Oct-20 A	10-Jun-21 A	02-Aug-22	02-Aug-22		S2D1050	S2D1070
S2D1070	Review & Accept of General Arrangement Drawings by PM (remaining)	77	26-Mar-21 A	11-Jun-21 A	02-Aug-22	02-Aug-22		S2D1060	SC21110, S5S1060, S5P1010, S5S1050
Civil & Dimensional / Tolerance Requirement Drawings		522	04-Mar-20 A	11-Jun-21 A	09-Aug-22	16-Apr-25			
S2D1080	Prepare & Submit Civil Requirement Drawings (from formation level up to +8mPD) -KD2A	90	04-Mar-20 A	04-Jun-20 A	09-Aug-22	09-Aug-22		S2D1000	S2D1090, S2D1660, KD1010
S2D1090	Review & Comment on Civil Requirement Drawings by PM (from formation level up to +8mPD)	21	30-Apr-20 A	23-Jun-20 A	09-Aug-22	09-Aug-22		S2D1080	S2D1100
S2D1100	Revise & Re-submit Civil Requirement Drawings (from formation level up to +8mPD)	381	26-May-20 A	10-Jun-21 A	09-Aug-22	09-Aug-22		S2D1090	S2D1110
S2D1110	Review & Accept of Civil Requirement Drawings by PM (from formation level up to +8mPD)	55	17-Apr-21 A	11-Jun-21 A	09-Aug-22	09-Aug-22		S2D1100	SC21110, AD1120
S2D1120	Prepare & Submit Civil Requirement Drawings (remaining) -KD2B	120	15-Sep-20 A	15-Jan-21 A	16-Apr-25	16-Apr-25		S2D1040	S2D1130, KD1020
S2D1130	Review & Comment on Civil Requirement Drawings by PM (remaining)	21	28-Sep-20 A	08-Feb-21 A	16-Apr-25	16-Apr-25		S2D1120	S2D1140
S2D1140	Revise & Re-submit Civil Requirement Drawings (remaining)	150	12-Jan-21 A	10-Jun-21 A	16-Apr-25	16-Apr-25		S2D1130	S2D1150
S2D1150	Review & Accept of Civil Requirement Drawings by PM (remaining)	55	17-Apr-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2D1140	SC21110
Electrical Schematic Drawings		754	05-Mar-20 A	11-Jun-21 A	10-Sep-22	16-Apr-25			
S2D1160	Prepare & Elec. Schematic Drawings (from formation level up to +8mPD) -KD2A	90	05-Mar-20 A	16-Mar-20 A	10-Sep-22	10-Sep-22		S2D1000	S2D1170, S2D1260, S2D1660, KD1010, S2D1220
S2D1170	Review & Comment on Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21	17-Mar-20 A	24-Mar-20 A	10-Sep-22	10-Sep-22		S2D1160	S2D1180
S2D1180	Revise & Re-submit Elec. Schematic Drawings (from formation level up to +8mPD)	28	25-Mar-20 A	23-Apr-20 A	10-Sep-22	10-Sep-22		S2D1170	S2D1190, S2D1220
S2D1190	Review & Comment of Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21	24-Apr-20 A	08-May-20 A	10-Sep-22	10-Sep-22		S2D1180	S2D1250, S5WS2P1090, S2D1220, S2D1200
S2D1200	Revise & Re-submit Elec. Schematic Drawings (from formation level up to +8mPD)	398	09-May-20 A	10-Jun-21 A	16-Apr-25	16-Apr-25		S2D1190	S2D1210
S2D1210	Review & Accept of Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21	21-May-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2D1200	SC21110
S2D1220	Prepare & Submit Elec. Schematic Drawings (remaining) -KD2B	120	05-Mar-20 A	16-Mar-20 A	10-Sep-22	10-Sep-22		S2D1160, S2D1180, S2D1190	S2D1230, KD1020, S2P1130
S2D1230	Review & Comment on Elec. Schematic Drawings by PM (remaining)	21	17-Mar-20 A	24-Mar-20 A	06-Aug-23	06-Aug-23		S2D1220	S2D1240



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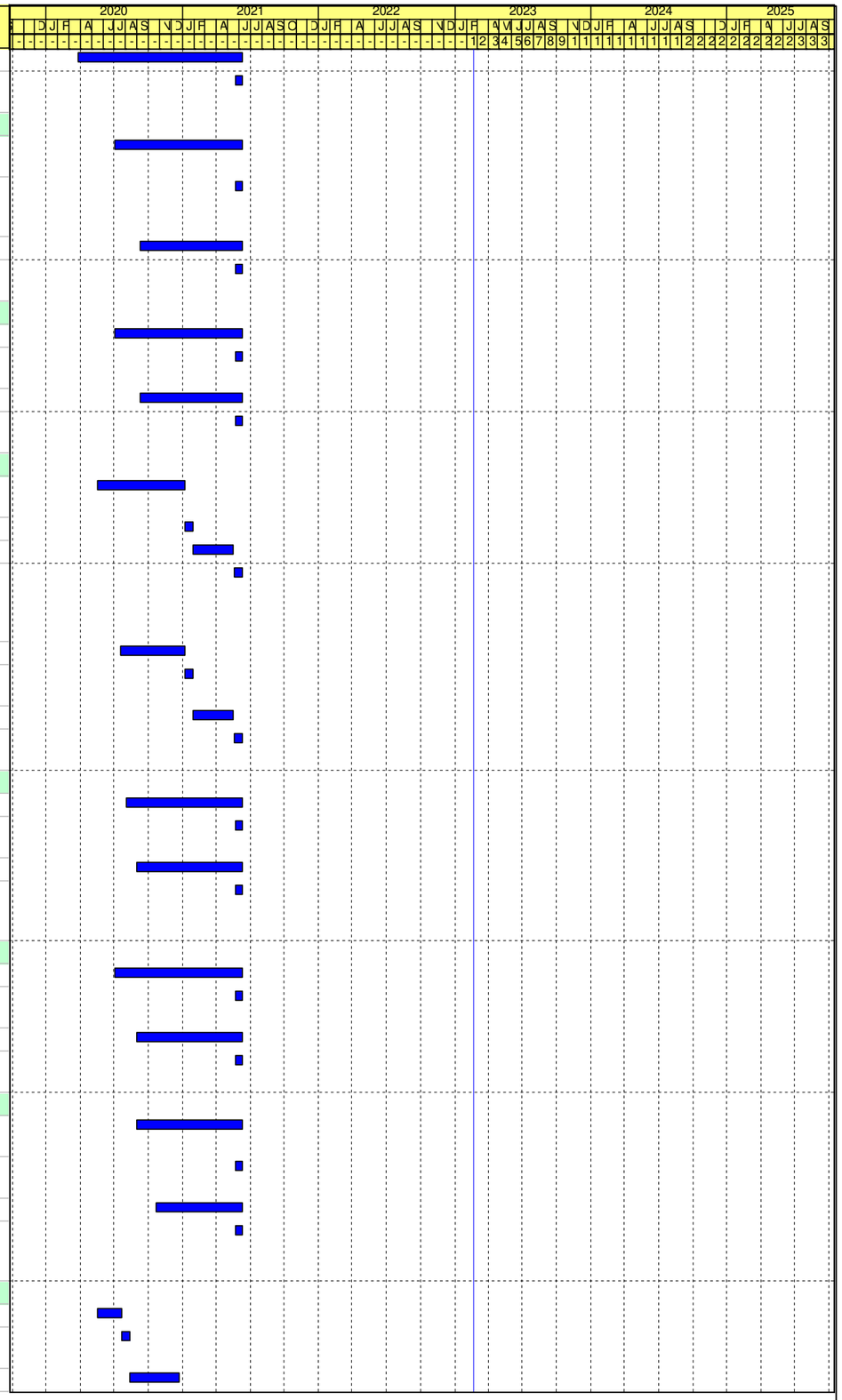
S2D1240	Revise & Re-submit Elec. Schematic Drawings (remaining)	443	25-Mar-20 A	10-Jun-21 A	06-Aug-23	06-Aug-23		S2D1230	S2D1250
S2D1250	Review & Accept of Elec. Schematic Drawings by PM (remaining)	21	24-May-21 A	11-Jun-21 A	06-Aug-23	06-Aug-23		S2D1240, S2D1190	SC21110, S5WS2P1090
Sludge Screening (SSc)		357	02-Jul-20 A	11-Jun-21 A	21-Sep-22	20-May-23			
S2D1260	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	344	02-Jul-20 A	10-Jun-21 A	21-Sep-22	21-Sep-22		S2D1160, S2P1000	S2D1270
S2D1270	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	21-Sep-22	21-Sep-22		S2D1260	S5WS2P1090, S5P1050, SC21110
S2D1280	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	274	10-Sep-20 A	10-Jun-21 A	20-May-23	20-May-23			S2D1290
S2D1290	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	20-May-23	20-May-23		S2D1280	SC21110, PL1490
Sludge Thickening (STh)		357	02-Jul-20 A	11-Jun-21 A	21-Sep-22	20-May-23			
S2D1300	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	344	02-Jul-20 A	10-Jun-21 A	21-Sep-22	21-Sep-22		S2P1010	S2D1310
S2D1310	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	21-Sep-22	21-Sep-22		S2D1300	SC21110, S5P1050
S2D1320	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	274	10-Sep-20 A	10-Jun-21 A	20-May-23	20-May-23			S2D1330
S2D1330	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	20-May-23	20-May-23		S2D1320	SC21110, PL1490
Thermal Hydrolysis Process (THP)		416	18-May-20 A	11-Jun-21 A	03-Aug-22	03-Aug-22			
S2D1340	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	241	18-May-20 A	07-Jan-21 A	03-Aug-22	03-Aug-22		S2P1040, S2D1000	S2D1350, S2D1970
S2D1350	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	08-Jan-21 A	27-Jan-21 A	03-Aug-22	03-Aug-22		S2D1340	S2D1360
S2D1360	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	117	28-Jan-21 A	17-May-21 A	03-Aug-22	03-Aug-22		S2D1350	S2D1370
S2D1370	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	24	18-May-21 A	11-Jun-21 A	03-Aug-22	03-Aug-22		S2D1360	SC21110, S5THPP1000, S5TCWP1000, S5P1050
S2D1380	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180	17-Jul-20 A	07-Jan-21 A	03-Aug-22	03-Aug-22			S2D1390
S2D1390	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	08-Jan-21 A	27-Jan-21 A	03-Aug-22	03-Aug-22		S2D1380	S2D1400
S2D1400	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	117	28-Jan-21 A	17-May-21 A	03-Aug-22	03-Aug-22		S2D1390	S2D1410
S2D1410	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	24	18-May-21 A	11-Jun-21 A	03-Aug-22	03-Aug-22		S2D1400	S5THPP1000, SC21110
Sludge Digestion (SDi)		325	01-Aug-20 A	11-Jun-21 A	09-Sep-22	21-Sep-22			
S2D1420	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	314	01-Aug-20 A	10-Jun-21 A	21-Sep-22	21-Sep-22		S2P1020	S2D1430
S2D1430	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	21-Sep-22	21-Sep-22		S2D1420	SC21110, S5P1050
S2D1440	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	284	31-Aug-20 A	10-Jun-21 A	09-Sep-22	09-Sep-22			S2D1450
S2D1450	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	09-Sep-22	09-Sep-22		S2D1440	S5DIGP1000, SC21110, PL1490
Sludge Dewatering (SDe)		357	02-Jul-20 A	11-Jun-21 A	21-Sep-22	20-May-23			
S2D1460	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	344	02-Jul-20 A	10-Jun-21 A	21-Sep-22	21-Sep-22		S2P1030	S2D1470
S2D1470	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	21-Sep-22	21-Sep-22		S2D1460	SC21110, S5P1050
S2D1480	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	284	31-Aug-20 A	10-Jun-21 A	20-May-23	20-May-23			S2D1490
S2D1490	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	20-May-23	20-May-23		S2D1480	SC21110, PL1490
Biogas Storage & Pre-Treatment (BSPT)		295	31-Aug-20 A	11-Jun-21 A	21-Sep-22	27-Oct-22			
S2D1500	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	284	31-Aug-20 A	10-Jun-21 A	21-Sep-22	21-Sep-22		S2P1060, S2P1050	S2D1510
S2D1510	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	21-Sep-22	21-Sep-22		S2D1500	SC21110, S5P1050
S2D1520	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	232	22-Oct-20 A	10-Jun-21 A	27-Oct-22	27-Oct-22			S2D1530
S2D1530	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	27-Oct-22	27-Oct-22		S2D1520	S5BIOP1010, S5H2SP1000, SC21110
Combined Heat & Power Generation (CHP)		512	18-May-20 A	11-Jun-21 A	02-Aug-22	21-Sep-22			
S2D1540	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	233	18-May-20 A	21-Jul-20 A	21-Sep-22	21-Sep-22		S2P1070	S2D1550
S2D1550	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	22-Jul-20 A	11-Aug-20 A	21-Sep-22	21-Sep-22		S2D1540	S2D1560, S2D1870
S2D1560	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	12-Aug-20 A	21-Dec-20 A	21-Sep-22	21-Sep-22		S2D1550	S2D1570



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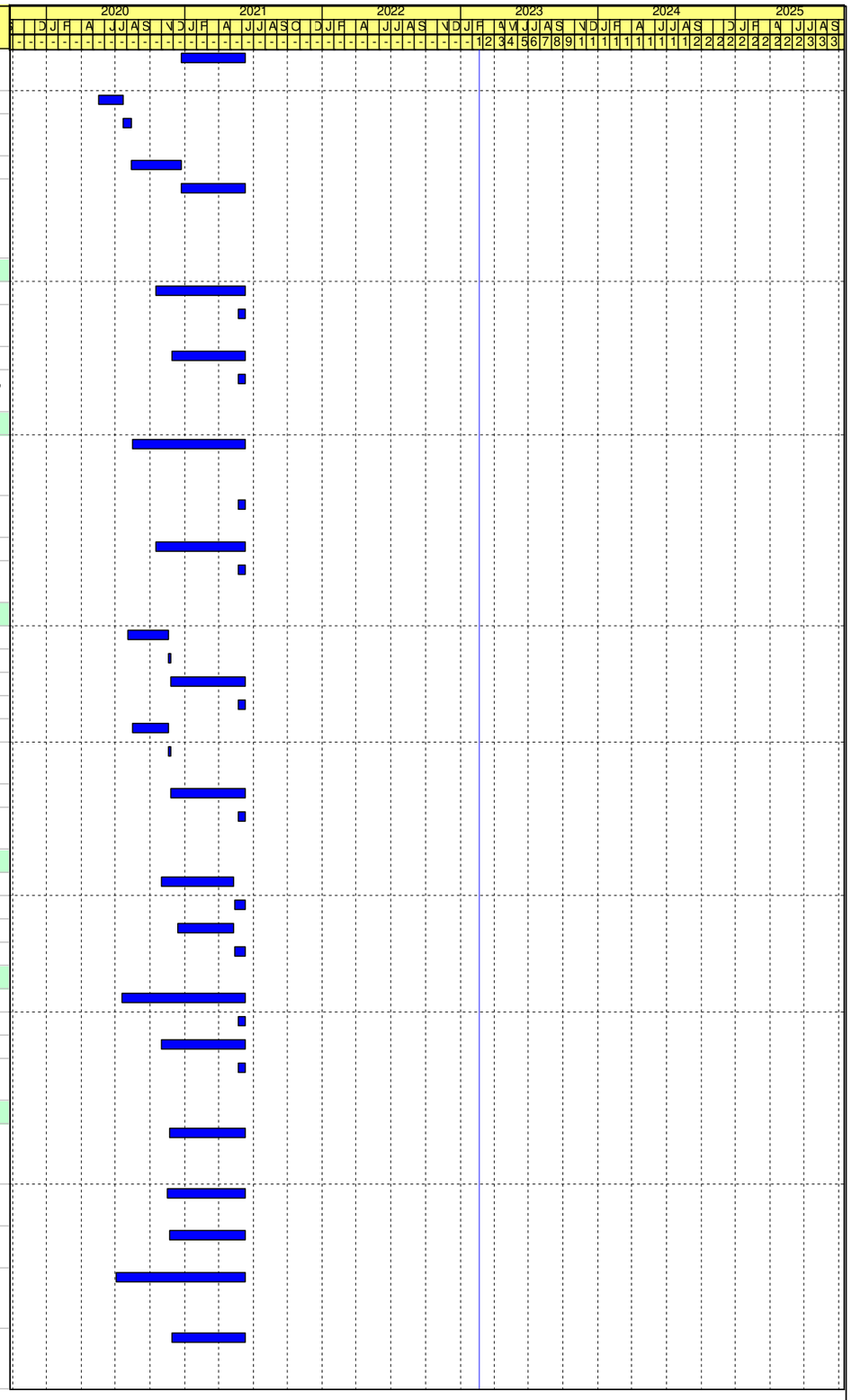
Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S2D1570	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	171	22-Dec-20 A	11-Jun-21 A	21-Sep-22	21-Sep-22		S2D1560	SC21110, S5P1050
S2D1580	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180	18-May-20 A	21-Jul-20 A	02-Aug-22	02-Aug-22			S2D1590
S2D1590	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	22-Jul-20 A	11-Aug-20 A	02-Aug-22	02-Aug-22		S2D1580	S2D1600
S2D1600	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	12-Aug-20 A	21-Dec-20 A	02-Aug-22	02-Aug-22		S2D1590	S2D1610
S2D1610	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	171	22-Dec-20 A	11-Jun-21 A	02-Aug-22	02-Aug-22		S2D1600	S5CHPP1010, SC21110, S5S1020, PL1530
Waste Gas Burning System (WGB)		264	15-Oct-20 A	11-Jun-21 A	21-Sep-22	13-Dec-22			
S2D1620	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	239	15-Oct-20 A	10-Jun-21 A	21-Sep-22	21-Sep-22			S2D1630
S2D1630	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	21-Sep-22	21-Sep-22		S2D1620	SC21110, S5P1050
S2D1640	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	194	29-Nov-20 A	10-Jun-21 A	13-Dec-22	13-Dec-22			S2D1650
S2D1650	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	13-Dec-22	13-Dec-22		S2D1640	S5WGBP1000, SC21110
Plant Service Water System (PSW)		325	16-Aug-20 A	11-Jun-21 A	12-Aug-22	21-Sep-22			
S2D1660	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	299	16-Aug-20 A	10-Jun-21 A	21-Sep-22	21-Sep-22		S2D1080, S2D1160, S2P1090	S2D1670
S2D1670	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	21-Sep-22	21-Sep-22		S2D1660	SC21110, S5P1050
S2D1680	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	239	15-Oct-20 A	10-Jun-21 A	12-Aug-22	12-Aug-22			S2D1690
S2D1690	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	12-Aug-22	12-Aug-22		S2D1680	S5PSWP1000, SC21110
Surplus Activated Sludge Pumping Station (SAS)		440	01-Aug-20 A	11-Jun-21 A	20-Apr-23	16-Apr-25			
S2D1700	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	202	01-Aug-20 A	17-Nov-20 A	16-Apr-25	16-Apr-25		S2P1100	S2D1710
S2D1710	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	18-Nov-20 A	24-Nov-20 A	16-Apr-25	16-Apr-25		S2D1700	S2D1720
S2D1720	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	198	25-Nov-20 A	10-Jun-21 A	16-Apr-25	16-Apr-25		S2D1710	S2D1730
S2D1730	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2D1720	SC21110
S2D1740	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	183	16-Aug-20 A	17-Nov-20 A	20-Apr-23	20-Apr-23			S2D1750
S2D1750	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	18-Nov-20 A	24-Nov-20 A	20-Apr-23	20-Apr-23		S2D1740	S2D1760
S2D1760	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	198	25-Nov-20 A	10-Jun-21 A	20-Apr-23	20-Apr-23		S2D1750	S2D1770
S2D1770	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	20-Apr-23	20-Apr-23		S2D1760	S5SASP1000, SC21110
Control and Monitoring System		211	30-Oct-20 A	11-Jun-21 A	16-Apr-25	16-Apr-25			
S2D1780	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	193	30-Oct-20 A	11-May-21 A	16-Apr-25	16-Apr-25			S2D1790
S2D1790	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	30	12-May-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2D1780	SC21110
S2D1800	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	148	14-Dec-20 A	11-May-21 A	16-Apr-25	16-Apr-25			S2D1810
S2D1810	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	30	12-May-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2D1800	SC21110
Lifting Appliances		358	17-Jul-20 A	11-Jun-21 A	16-Apr-25	16-Apr-25			
S2D1820	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	329	17-Jul-20 A	10-Jun-21 A	16-Apr-25	16-Apr-25			S2D1830
S2D1830	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21	24-May-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2D1820	SC21110
S2D1840	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	224	30-Oct-20 A	10-Jun-21 A	16-Apr-25	16-Apr-25			S2D1850
S2D1850	Review & Acceptt on the Schedule, Design Cal. & Fixing Details of Equipment	21	24-May-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2D1840	SC21110
Building Services		357	02-Jul-20 A	11-Jun-21 A	09-Jun-22	16-Apr-25			
S2D1860	Submit & Accept BS Works Design & Dwgs for Sludge Dewatering Building	202	21-Nov-20 A	11-Jun-21 A	09-Jun-22	09-Jun-22			SC21110, S5S1010, S5S1120
S2D1870	Submit & Accept BS Works Design & Dwgs for CHP Building	209	14-Nov-20 A	11-Jun-21 A	26-Jul-23	26-Jul-23		S2D1550	SC21110, S5S1120
S2D1880	Submit & Accept BS Works Design & Dwgs for Sludge Digester & Distribution Chamber	202	21-Nov-20 A	11-Jun-21 A	26-Jul-23	26-Jul-23			SC21110, S5S1120
S2D1890	Submit & Accept BS Works Design & Dwgs for Workshop No. 2	344	02-Jul-20 A	11-Jun-21 A	09-Aug-22	09-Aug-22			SC21110, S5S1030, S5S1120
S2D1900	Submit & Accept BS Works Design & Dwgs for Other Facilities	194	29-Nov-20 A	11-Jun-21 A	26-Jul-23	26-Jul-23			S2D1920, SC21110, S5S1120

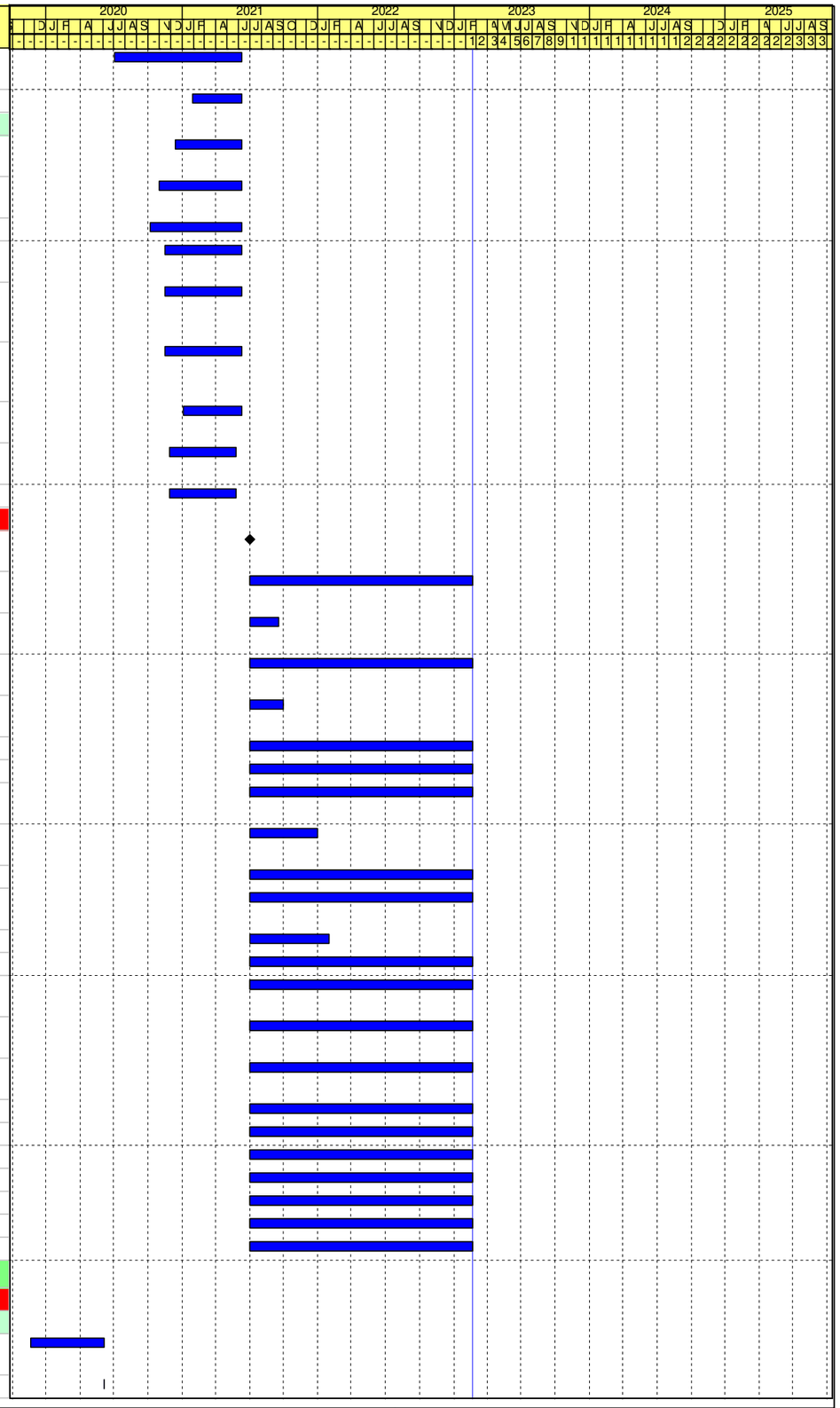


Remaining Work
Critical Activity
Milestone
Actual Progress

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 Feb 2023

Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S2D1910	Submit & Accept BS Works Design & Dwgs for FS Installation	344	02-Jul-20 A	11-Jun-21 A	26-Jul-23	26-Jul-23			SC21110, S5S1120
S2D1920	Submit & Accept BS Works Design & Dwgs for Outdoor Lighting Installation	134	28-Jan-21 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2D1900	SC21110
Miscellaneous		264	05-Oct-20 A	11-Jun-21 A	18-Oct-22	16-Apr-25			
S2D1930	Submit & Accept Design & Dwgs for DO System	179	14-Dec-20 A	11-Jun-21 A	18-Nov-22	18-Nov-22		S2P1150, PL1020	S5DOUP1000, SC21110
S2D1940	Submit & Accept Design & Dwgs for Sewage Pumping Station	224	30-Oct-20 A	11-Jun-21 A	05-Dec-22	05-Dec-22		S2P1180	S5SPSP1000, SC21110
S2D1950	Submit & Accept Design & Dwgs for Process Water Pumping System	249	05-Oct-20 A	11-Jun-21 A	16-Apr-25	16-Apr-25		S2P1190	SC21110
S2D1960	Submit & Accept Design & Dwgs for External Sludge Transfer Pumping System	209	14-Nov-20 A	11-Jun-21 A	07-Jan-23	07-Jan-23		S2P1200	S2D1970, SC21110
S2D1970	Submit & Accept Design & Dwgs for THP Cooling Water Pumping Station	209	14-Nov-20 A	10-Jun-21 A	07-Jan-23	07-Jan-23		S2D1340, S2D1960, S2P1210	S5TCWP1000, SC21110
S2D1980	Submit & Accept Design & Dwgs for Ferric Chloride Dosing System	209	14-Nov-20 A	11-Jun-21 A	18-Oct-22	18-Oct-22			S5FCDP1000, S5FCDP1010, SC21110
S2D1990	Submit & Accept Design & Dwgs for Temporary Primary Sludge Pumping Facility	158	04-Jan-21 A	11-Jun-21 A	20-Dec-22	20-Dec-22		PL1020	S5ECHP1000, SC21110
S2D2000	Submit & Accept Design & Dwgs for Gas Detection System	194	29-Nov-20 A	24-May-21 A	18-Oct-22	18-Oct-22			SC21110, S5CHPP1040
S2D2010	Submit & Accept Design & Dwgs for CCTV System	194	29-Nov-20 A	26-May-21 A	16-Apr-25	16-Apr-25			SC21110
Outstanding Works		334	02-Jul-21 A	21-Feb-23	31-Oct-21	16-Apr-25	785		
S2D2020	Certifiate of Completion - Section 2 of the works (Ref: RCYK:ccm:60427128/92-2021004626w)	0	02-Jul-21 A		16-Apr-25				
S2D2030	Provide ICE Certificate for all design, calculations, drawings, plans & relevant documents	334	02-Jul-21 A	21-Feb-23*	31-May-22	31-May-22	-266		
S2D2040	Submit finalized design calculations, drawings & material submissions for BS systems (Workshop No.2)	76	02-Jul-21 A	15-Sep-21 A	16-Apr-25	16-Apr-25			
S2D2050	Submit finalized design calculations, drawings & material submissions for BS systems (except Workshop No.2)	303	02-Jul-21 A	21-Feb-23*	30-Apr-22	30-Apr-22	-297		
S2D2060	Submit finalized sizing calculations for the actuators and stems for penstocks	91	02-Jul-21 A	30-Sep-21 A	16-Apr-25	16-Apr-25			
S2D2070	Submit finalized cable schedules & sizing calculation (LV System)	294	02-Jul-21 A	21-Feb-23*	31-Dec-21	31-Dec-21	-417		
S2D2080	Submit finalized pumps and associated motor and VSD calculations	294	02-Jul-21 A	21-Feb-23*	31-Dec-21	31-Dec-21	-417		
S2D2090	Submit finalized electrical loads to verify the rating of the switchgears, transformers and protective devices	294	02-Jul-21 A	21-Feb-23*	31-Dec-21	31-Dec-21	-417		
S2D2100	Submit finalized material submissions of the cables, cable tray, ladder and accessories	294	02-Jul-21 A	31-Dec-21 A	16-Apr-25	16-Apr-25			
S2D2110	Submit finalized cable route drawings	294	02-Jul-21 A	21-Feb-23*	31-Dec-21	31-Dec-21	-417		
S2D2120	Submit finalized layout and control wiring diagrams for switchboard, MCC, control panel, etc	294	02-Jul-21 A	21-Feb-23*	31-Jan-22	31-Jan-22	-386		
S2D2130	Submit finalized design submissions of the CHP system	294	02-Jul-21 A	31-Jan-22 A	16-Apr-25	16-Apr-25			
S2D2140	Submit finalized interlock devices for electrical equipment and system	303	02-Jul-21 A	21-Feb-23*	30-Apr-22	30-Apr-22	-297		
S2D2150	Submit finalized calculations for total harmonic distortion, electrical faults and touch voltage	303	02-Jul-21 A	21-Feb-23*	30-Apr-22	30-Apr-22	-297		
S2D2160	Submit finalized design calculations, drawings & material submissions for ELV systems	294	02-Jul-21 A	21-Feb-23*	31-Dec-21	31-Dec-21	-417		
S2D2170	Submit finalized design submissions of SCADA, PMS, CMMS, IDMS, UPS for FCS	294	02-Jul-21 A	21-Feb-23*	31-Dec-21	31-Dec-21	-417		
S2D2180	Submit finalized configuration of SCADA / PLC system, CMMS & PMS	294	02-Jul-21 A	21-Feb-23*	31-Dec-21	31-Dec-21	-417		
S2D2190	Submit finalized PLC and MCC panel design	294	02-Jul-21 A	21-Feb-23*	28-Feb-22	28-Feb-22	-358		
S2D2200	Submit finalized design & philosophy of the process instrument	294	02-Jul-21 A	21-Feb-23*	31-Dec-21	31-Dec-21	-417		
S2D2210	Submit finalized Process Design Submission	152	02-Jul-21 A	21-Feb-23*	30-Nov-21	30-Nov-21	-448		
S2D2220	Submit finalized acoustic and noise calculations for all equipment	303	02-Jul-21 A	21-Feb-23*	30-Apr-22	30-Apr-22	-297		
S2D2230	Submit finalized design of THP feeding system	122	02-Jul-21 A	21-Feb-23*	31-Oct-21	31-Oct-21	-478		
S2D2240	Submit finalized design of the centrifuge discharge system	152	02-Jul-21 A	21-Feb-23*	30-Nov-21	30-Nov-21	-448		
Section 3 - Complete Design, Construction & T&C for Sidestream Facili		1949	20-Nov-19 A	21-Mar-25	05-Oct-22	16-Apr-25	26		
Major Subcontractor / Supplier Procurement		633	20-Nov-19 A	06-Sep-21 A	03-Jan-23	16-Apr-25			
Design		320	20-Nov-19 A	12-Jul-20 A	03-Jan-23	16-Apr-25			
S3P1000	Procurement & PO for Deammonification Sidestream Treatment Facilities	200	20-Nov-19 A	05-Jun-20 A	03-Jan-23	03-Jan-23		CD1010, PL1010	S3D1000, S3D1440
S3P1010	E&M (Process) Designer Award	1	05-Jun-20 A	05-Jun-20 A	16-Apr-25	16-Apr-25			



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File Name: DE/2018/03 RP R31
Layout: DE1803 RP (Feb 2023) - WBS
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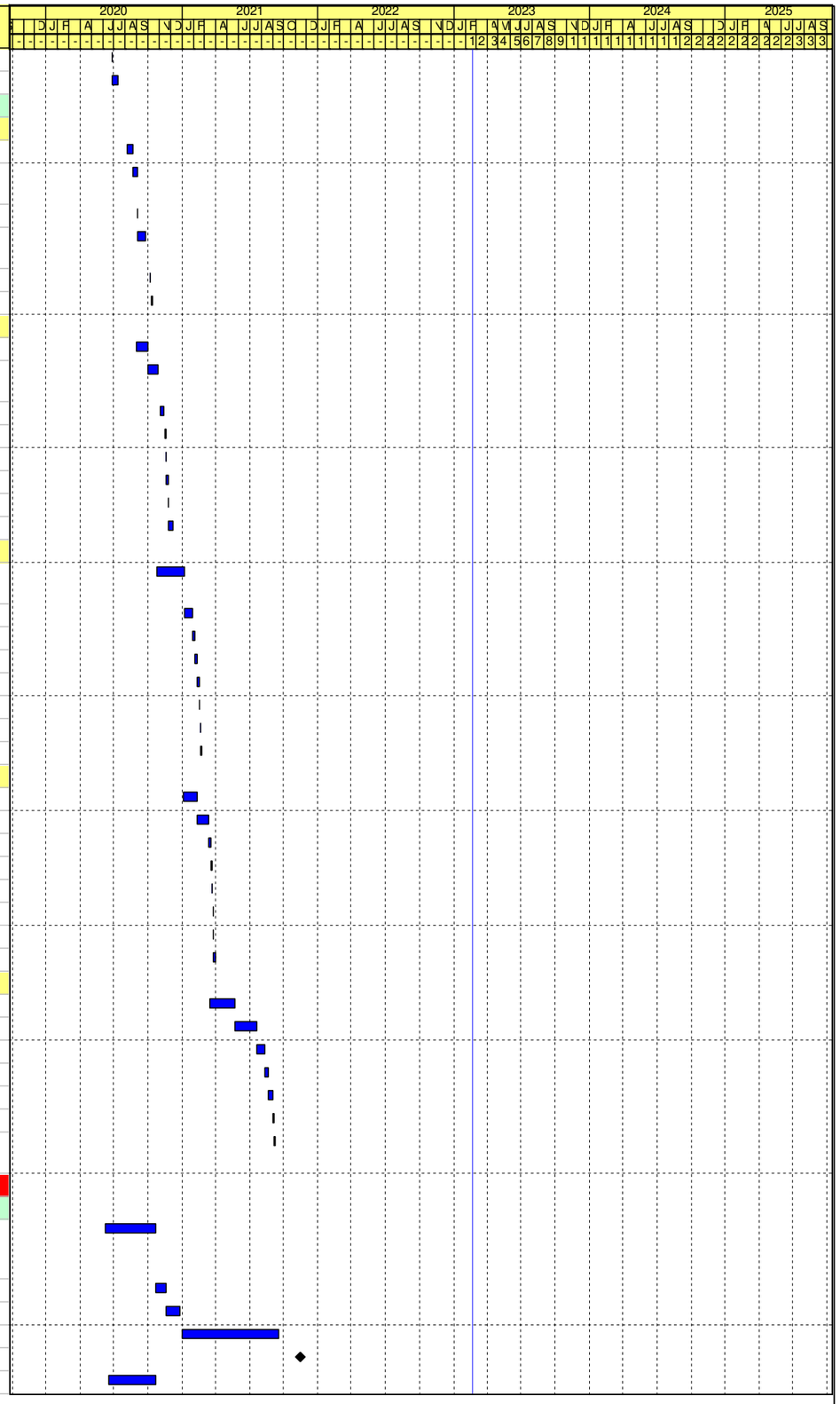
Remaining Work
Critical Activity
Milestone
Actual Progress

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 Feb 2023

Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S3P1020	Civil & BS Designer Award	1	26-Jun-20 A	26-Jun-20 A	16-Apr-25	16-Apr-25			S3P1030
S3P1030	Mobilisation	14	27-Jun-20 A	12-Jul-20 A	16-Apr-25	16-Apr-25		S3P1020	
Civil & Building Contractor		327	05-Aug-20 A	06-Sep-21 A	04-Jan-23	04-Jan-23			
For Site Clearance & Survey		36	05-Aug-20 A	12-Oct-20 A	04-Jan-23	04-Jan-23			
S3P1040	Submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	05-Aug-20 A	20-Aug-20 A	04-Jan-23	04-Jan-23			S3P1050
S3P1050	Review & Comment the Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	21-Aug-20 A	01-Sep-20 A	04-Jan-23	04-Jan-23		S3P1040	S3P1060
S3P1060	Re-submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	02-Sep-20 A	02-Sep-20 A	04-Jan-23	04-Jan-23		S3P1050	S3P1070
S3P1070	Review & Accept Tender proprosal of Civil Contractor (Site Clearance & Survey)	14	03-Sep-20 A	23-Sep-20 A	04-Jan-23	04-Jan-23		S3P1060	S3P1080
S3P1080	Civil Contractor (Site Clearance & Survey) Award	1	07-Oct-20 A	07-Oct-20 A	04-Jan-23	04-Jan-23		S3P1070	S3P1090
S3P1090	Mobilisation	5	08-Oct-20 A	12-Oct-20 A	04-Jan-23	04-Jan-23		S3P1080	S3C1010
For Ground Investigation		98	29-Aug-20 A	08-Dec-20 A	04-Jan-23	04-Jan-23			
S3P1100	Submit Tender proprosal of Civil Contractor (Ground Investigation)	14	29-Aug-20 A	29-Sep-20 A	04-Jan-23	04-Jan-23			S3P1110
S3P1110	Review & Accept the Tender proprosal of Civil Contractor (Ground Investigation)	21	30-Sep-20 A	27-Oct-20 A	04-Jan-23	04-Jan-23		S3P1100	S3P1120
S3P1120	Tender Invitation of Civil Contractor (Ground Investigation)	7	02-Nov-20 A	13-Nov-20 A	04-Jan-23	04-Jan-23		S3P1110	S3P1130
S3P1130	Submission of Tender Report	7	14-Nov-20 A	18-Nov-20 A	04-Jan-23	04-Jan-23		S3P1120	S3P1140
S3P1140	Review & Accept the Tender Report by PM	21	19-Nov-20 A	19-Nov-20 A	04-Jan-23	04-Jan-23		S3P1130	S3P1150
S3P1150	Contract Preparation	3	20-Nov-20 A	23-Nov-20 A	04-Jan-23	04-Jan-23		S3P1140	S3P1160
S3P1160	Civil Contractor (Ground Investigation) Award	1	24-Nov-20 A	24-Nov-20 A	04-Jan-23	04-Jan-23		S3P1150	S3P1170
S3P1170	Mobilisation	7	25-Nov-20 A	08-Dec-20 A	04-Jan-23	04-Jan-23		S3P1160	S3C1020
For Pre-drilling & Post-drilling		116	26-Oct-20 A	21-Feb-21 A	04-Jan-23	04-Jan-23			
S3P1180	Submit Tender proprosal of Civil Contractor (Pre-drilling & Post-drilling)	74	26-Oct-20 A	06-Jan-21 A	04-Jan-23	04-Jan-23		S3D1300, S3D1240	S3P1190
S3P1190	Review & Accept the Tender proprosal of Civil Contractor (Predrill & Proof drill)	21	07-Jan-21 A	27-Jan-21 A	04-Jan-23	04-Jan-23		S3P1180	S3P1200
S3P1200	Tender Invitation of Civil Contractor (Pre-drilling & Post-drilling)	14	28-Jan-21 A	04-Feb-21 A	04-Jan-23	04-Jan-23		S3P1190	S3P1210
S3P1210	Submission of Tender Report	4	05-Feb-21 A	10-Feb-21 A	04-Jan-23	04-Jan-23		S3P1200	S3P1220
S3P1220	Review & Accept the Tender Report by PM	21	11-Feb-21 A	16-Feb-21 A	04-Jan-23	04-Jan-23		S3P1210	S3P1230
S3P1230	Contract Preparation	3	17-Feb-21 A	17-Feb-21 A	04-Jan-23	04-Jan-23		S3P1220	S3P1240
S3P1240	Civil Contractor (Pre-drilling & Post-drilling) Award	1	18-Feb-21 A	18-Feb-21 A	04-Jan-23	04-Jan-23		S3P1230	S3P1250
S3P1250	Mobilisation	3	19-Feb-21 A	21-Feb-21 A	04-Jan-23	04-Jan-23		S3P1240	S3C1030
For Piling		90	04-Jan-21 A	01-Apr-21 A	04-Jan-23	04-Jan-23			
S3P1260	Submit Tender proprosal of Civil Contractor (Piling)	39	04-Jan-21 A	10-Feb-21 A	04-Jan-23	04-Jan-23			S3P1270
S3P1270	Review & Accept the Tender proprosal of Civil Contractor (Piling)	25	11-Feb-21 A	12-Mar-21 A	04-Jan-23	04-Jan-23		S3P1260	S3P1280
S3P1280	Tender Invitation of Civil Contractor (Piling)	14	12-Mar-21 A	19-Mar-21 A	04-Jan-23	04-Jan-23		S3P1270	S3P1290
S3P1290	Submission of Tender Report	7	20-Mar-21 A	22-Mar-21 A	04-Jan-23	04-Jan-23		S3P1280	S3P1300
S3P1300	Review & Accept the Tender Report by PM	21	23-Mar-21 A	23-Mar-21 A	04-Jan-23	04-Jan-23		S3P1290	S3P1310
S3P1310	Contract Preparation	3	24-Mar-21 A	25-Mar-21 A	04-Jan-23	04-Jan-23		S3P1300	S3P1320
S3P1320	Civil Contractor (Piling) Award	1	26-Mar-21 A	26-Mar-21 A	04-Jan-23	04-Jan-23		S3P1310	S3P1330
S3P1330	Mobilisation	3	26-Mar-21 A	01-Apr-21 A	04-Jan-23	04-Jan-23		S3P1320	S3C1030
For Main Civil Works		146	17-Mar-21 A	06-Sep-21 A	04-Jan-23	04-Jan-23			
S3P1340	Submit Tender proprosal of Civil Contractor (Main Civil Works)	30	17-Mar-21 A	21-May-21 A	04-Jan-23	04-Jan-23			S3P1350
S3P1350	Review & Accept the Tender proprosal of Civil Contractor (Main Civil Works)	42	22-May-21 A	19-Jul-21 A	04-Jan-23	04-Jan-23		S3P1340	S3P1360
S3P1360	Tender Invitation of Civil Contractor (Main Civil Works)	14	21-Jul-21 A	11-Aug-21 A	04-Jan-23	04-Jan-23		S3P1350	S3P1370
S3P1370	Submission of Tender Report	1	12-Aug-21 A	19-Aug-21 A	04-Jan-23	04-Jan-23		S3P1360	S3P1380
S3P1380	Review & Accept the Tender Report by PM	6	20-Aug-21 A	31-Aug-21 A	04-Jan-23	04-Jan-23		S3P1370	S3P1390
S3P1390	Contract Preparation	1	01-Sep-21 A	05-Sep-21 A	04-Jan-23	04-Jan-23		S3P1380	S3P1400
S3P1400	Civil Contractor (Main Civil Works) Award	1	06-Sep-21 A	06-Sep-21 A	04-Jan-23	04-Jan-23		S3P1390	S3D1360, S3C1070
Design & Submission		922	07-Jun-20 A	21-Feb-23	05-Oct-22	16-Apr-25	785		
Architectural		922	07-Jun-20 A	21-Feb-23	18-Apr-23	19-Apr-23	57		
S3D1000	Prepare & Submit Building Layout Plan	60	07-Jun-20 A	21-Oct-20 A	18-Apr-23	18-Apr-23		CD1010, S3P1000	S3D1010, S3D1050, S3D1100
S3D1010	Review & Comment on Buildingl Layout Plan by PM	67	22-Oct-20 A	17-Nov-20 A	18-Apr-23	18-Apr-23		S3D1000	S3D1020
S3D1020	Revise & Re-submit Building Layout Plan	28	18-Nov-20 A	24-Dec-20 A	18-Apr-23	18-Apr-23		S3D1010	S3D1030
S3D1030	Review & Accept of Building Layout Plan by PM	214	01-Jan-21 A	16-Sep-21 A	18-Apr-23	18-Apr-23		S3D1020	S3D1090
S3D1040	Coordination Meeting with DSD (Employer) for the Architectural Drawing	0		15-Nov-21 A		18-Apr-23			S3D1090
S3D1050	Prepare & Submit Architectural Design / Drawings	60	17-Jun-20 A	21-Oct-20 A	18-Apr-23	18-Apr-23		S3D1000	S3D1060



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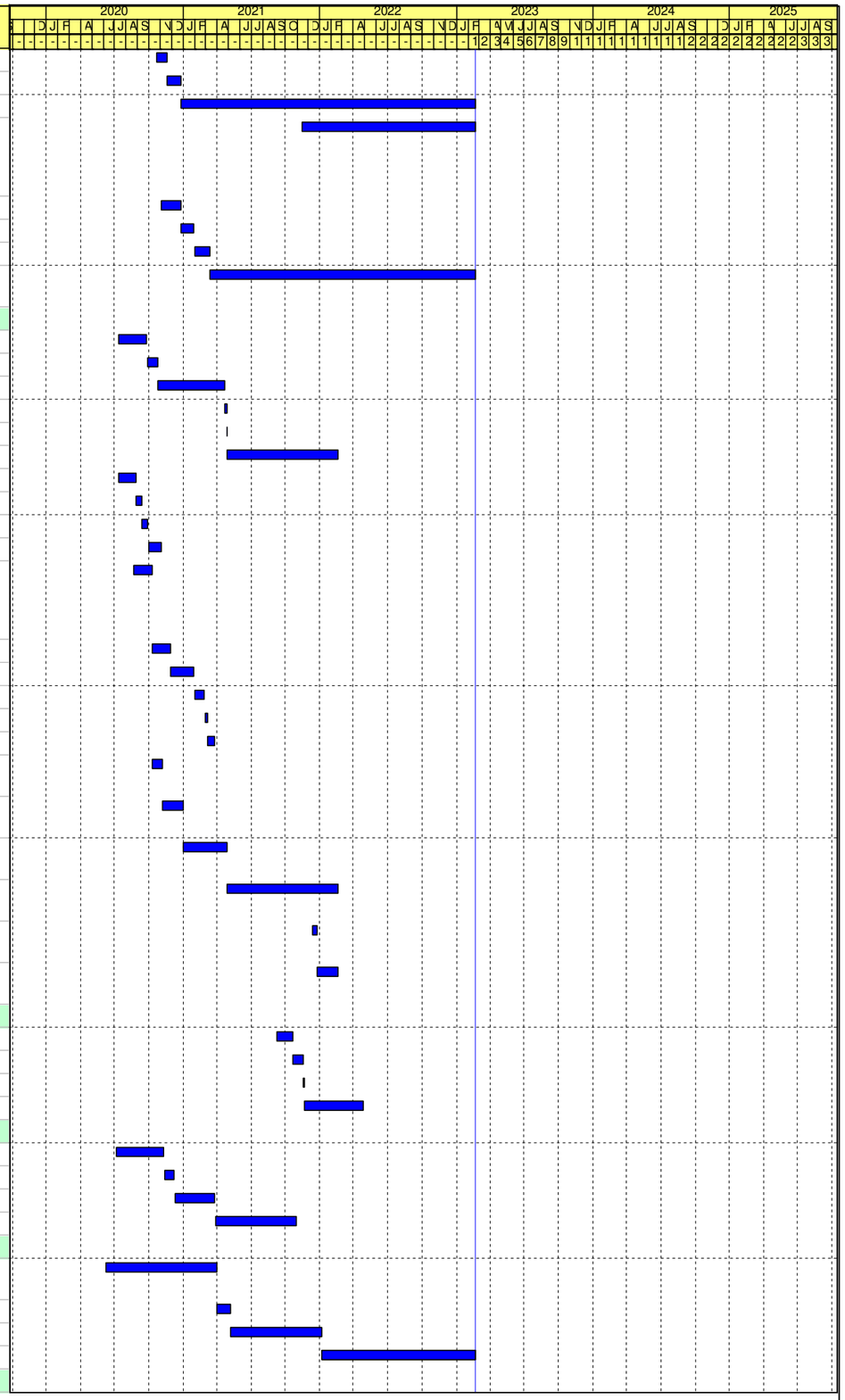
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S3D1060	Review & Comment on Architectural Design / Drawings by PM	67	22-Oct-20 A	17-Nov-20 A	18-Apr-23	18-Apr-23		S3D1050	S3D1070
S3D1070	Revise & Re-submit Architectural Design / Drawings	28	18-Nov-20 A	24-Dec-20 A	18-Apr-23	18-Apr-23		S3D1060	S3D1080
S3D1080	Review & Accept of Architectural Design / Drawings by PM	483	25-Dec-20 A	21-Feb-23	18-Apr-23	19-Apr-23	57	S3D1070	S3D1090
S3D1090	Review & Accept of Architectural Design / Drawings by DSD (incl. VCAB) & DAP of ArchSD	300	15-Nov-21 A	21-Feb-23	18-Apr-23	19-Apr-23	57	S3D1080, S3D1130, S3D1030, S3D1040	S3C1140, S3P2150
S3D1100	Prepare & Submit ABWF Works Drawings	68	03-Nov-20 A	24-Dec-20 A	18-Apr-23	18-Apr-23		S3D1000	S3D1110
S3D1110	Review & Comment on ABWF Works Drawings by PM	21	25-Dec-20 A	29-Jan-21 A	18-Apr-23	18-Apr-23		S3D1100	S3D1120
S3D1120	Revise & Re-submit ABWF Works Drawings	41	30-Jan-21 A	11-Mar-21 A	18-Apr-23	18-Apr-23		S3D1110	S3D1130
S3D1130	Review & Accept of ABWF Works Drawings by PM	406	12-Mar-21 A	21-Feb-23	18-Apr-23	19-Apr-23	57	S3D1120	S3C1140, S3D1090
Civil / Structural		639	13-Jul-20 A	18-Feb-22 A	05-Oct-22	16-Apr-25			
S3D1140	Prepare & Submit Loading Plan to ICE	60	13-Jul-20 A	25-Sep-20 A	04-Jan-23	04-Jan-23			S3D1150
S3D1150	Review & Comment on Loading Plan by ICE	14	26-Sep-20 A	23-Oct-20 A	04-Jan-23	04-Jan-23		S3D1140	S3D1160
S3D1160	Revise & Re-submit Loading Plan to ICE	175	24-Oct-20 A	20-Apr-21 A	04-Jan-23	04-Jan-23		S3D1150	S3D1170
S3D1170	Review & Accept of Loading Plan by ICE	7	21-Apr-21 A	26-Apr-21 A	04-Jan-23	04-Jan-23		S3D1160	S3D1180
S3D1180	Prepare & Submit Loading Plan to PM	7	27-Apr-21 A	27-Apr-21 A	04-Jan-23	04-Jan-23		S3D1170	S3D1190
S3D1190	Review & Accept of Loading Plan by PM & DSD (incl. BCM)	359	28-Apr-21 A	18-Feb-22 A	04-Jan-23	04-Jan-23		S3D1180	S3C1090
S3D1200	Prepare & Submit GI Plan	60	13-Jul-20 A	26-Aug-20 A	04-Jan-23	04-Jan-23			S3D1210
S3D1210	Review & Comment on GI Plan by PM	14	27-Aug-20 A	10-Sep-20 A	04-Jan-23	04-Jan-23		S3D1200	S3D1220
S3D1220	Revise & Re-submit GI Plan	7	11-Sep-20 A	28-Sep-20 A	04-Jan-23	04-Jan-23		S3D1210	S3D1230
S3D1230	Review & Accept of GI Plan by PM	21	29-Sep-20 A	02-Nov-20 A	04-Jan-23	04-Jan-23		S3D1220	S3C1020
S3D1240	Prepare & Submit Foundation Design / Drawings to ICE & PM	60	20-Aug-20 A	09-Oct-20 A	05-Oct-22	05-Oct-22			S3D1250, S3C1010, S3D1300, S3P1180
S3D1250	Review & Comment on Foundation Design / Drawings by ICE & PM	79	10-Oct-20 A	27-Nov-20 A	16-Apr-25	16-Apr-25		S3D1240	S3D1260
S3D1260	Revise & Re-submit Foundation Design / Drawings to ICE & PM	14	28-Nov-20 A	29-Jan-21 A	16-Apr-25	16-Apr-25		S3D1250	S3D1270
S3D1270	Review & Accept of Foundation Design / Drawings by ICE & PM	10	30-Jan-21 A	26-Feb-21 A	16-Apr-25	16-Apr-25		S3D1260	S3D1280
S3D1280	Prepare & Submit Foundation Design / Drawings to DSD (incl. BCM)	7	27-Feb-21 A	05-Mar-21 A	16-Apr-25	16-Apr-25		S3D1270	S3D1290
S3D1290	Review & Accept of Foundation Design / Drawings by DSD (incl. BCM)	45	06-Mar-21 A	26-Mar-21 A	16-Apr-25	16-Apr-25		S3D1280	
S3D1300	Prepare & Submit Substructure / Superstructure Design / Drawings to ICE & PM	25	10-Oct-20 A	05-Nov-20 A	05-Oct-22	05-Oct-22		S3D1240	S3D1310, S3P1180
S3D1310	Review & Comment on Substructure / Superstructure Design / Drawings by ICE & PM	55	06-Nov-20 A	30-Dec-20 A	05-Oct-22	05-Oct-22		S3D1300	S3D1320
S3D1320	Revise & Re-submit Substructure / Superstructure Design / Drawings to ICE & PM	72	31-Dec-20 A	26-Apr-21 A	05-Oct-22	05-Oct-22		S3D1310	S3D1330
S3D1330	Review & Accept of Substructure / Superstructure Design / Drawings by ICE & PM	271	27-Apr-21 A	18-Feb-22 A	05-Oct-22	05-Oct-22		S3D1320	S3D1340
S3D1340	Prepare & Submit Substructure / Superstructure Design / Drawings to DSD (incl. BCM)	2	13-Dec-21 A	23-Dec-21 A	05-Oct-22	05-Oct-22		S3D1330	S3D1350
S3D1350	Review & Accept of Substructure / Superstructure Design / Drawings by DSD (incl. BCM)	119	24-Dec-21 A	18-Feb-22 A	05-Oct-22	05-Oct-22		S3D1340	S3C1100
ELS		214	07-Sep-21 A	26-Apr-22 A	04-Jan-23	04-Jan-23			
S3D1360	Prepare & Submit ELS Plan to ICE	45	07-Sep-21 A	20-Oct-21 A	04-Jan-23	04-Jan-23		S3P1400	S3D1370
S3D1370	Review & Accept of ELS Plan by ICE	5	21-Oct-21 A	18-Nov-21 A	04-Jan-23	04-Jan-23		S3D1360	S3D1380
S3D1380	Prepare & Submit ELS Plan to PM	3	19-Nov-21 A	19-Nov-21 A	04-Jan-23	04-Jan-23		S3D1370	S3D1390
S3D1390	Review & Accept of ELS Plan by PM	153	20-Nov-21 A	26-Apr-22 A	04-Jan-23	04-Jan-23		S3D1380	S3C1080
Process Design		454	06-Jul-20 A	29-Oct-21 A	16-Apr-25	16-Apr-25			
S3D1400	Prepare & Submit E&M Works (Process) Design Drawings	198	06-Jul-20 A	10-Nov-20 A	16-Apr-25	16-Apr-25			S3D1410
S3D1410	Review & Comment on E&M Works (Process) Design Drawings by PM	21	11-Nov-20 A	08-Dec-20 A	16-Apr-25	16-Apr-25		S3D1400	S3D1420
S3D1420	Revise & Re-submit E&M Works (Process) Design Drawings	87	09-Dec-20 A	26-Mar-21 A	16-Apr-25	16-Apr-25		S3D1410	S3D1430
S3D1430	Review & Accept of E&M Works (Process) Design Drawings by PM	278	27-Mar-21 A	29-Oct-21 A	16-Apr-25	16-Apr-25		S3D1420	
E&M Design		715	07-Jun-20 A	21-Feb-23	03-Jan-23	03-Jan-23	-49		
S3D1440	Prepare & Submit General Arrangement Drawings	298	07-Jun-20 A	31-Mar-21 A	03-Jan-23	03-Jan-23		S3P1000	S3D1450, S3C1080
S3D1450	Review & Comment on General Arrangement Drawings by PM	37	01-Apr-21 A	07-May-21 A	03-Jan-23	03-Jan-23		S3D1440	S3D1460
S3D1460	Revise & Re-submit General Arrangement Drawings	247	08-May-21 A	06-Jan-22 A	03-Jan-23	03-Jan-23		S3D1450	S3D1470
S3D1470	Review & Accept of General Arrangement Drawings by PM	105	07-Jan-22 A	21-Feb-23	03-Jan-23	03-Jan-23	-49	S3D1460	S3C1995
BS		598	03-Jul-20 A	21-Feb-23	16-Feb-23	17-Feb-23	-5		



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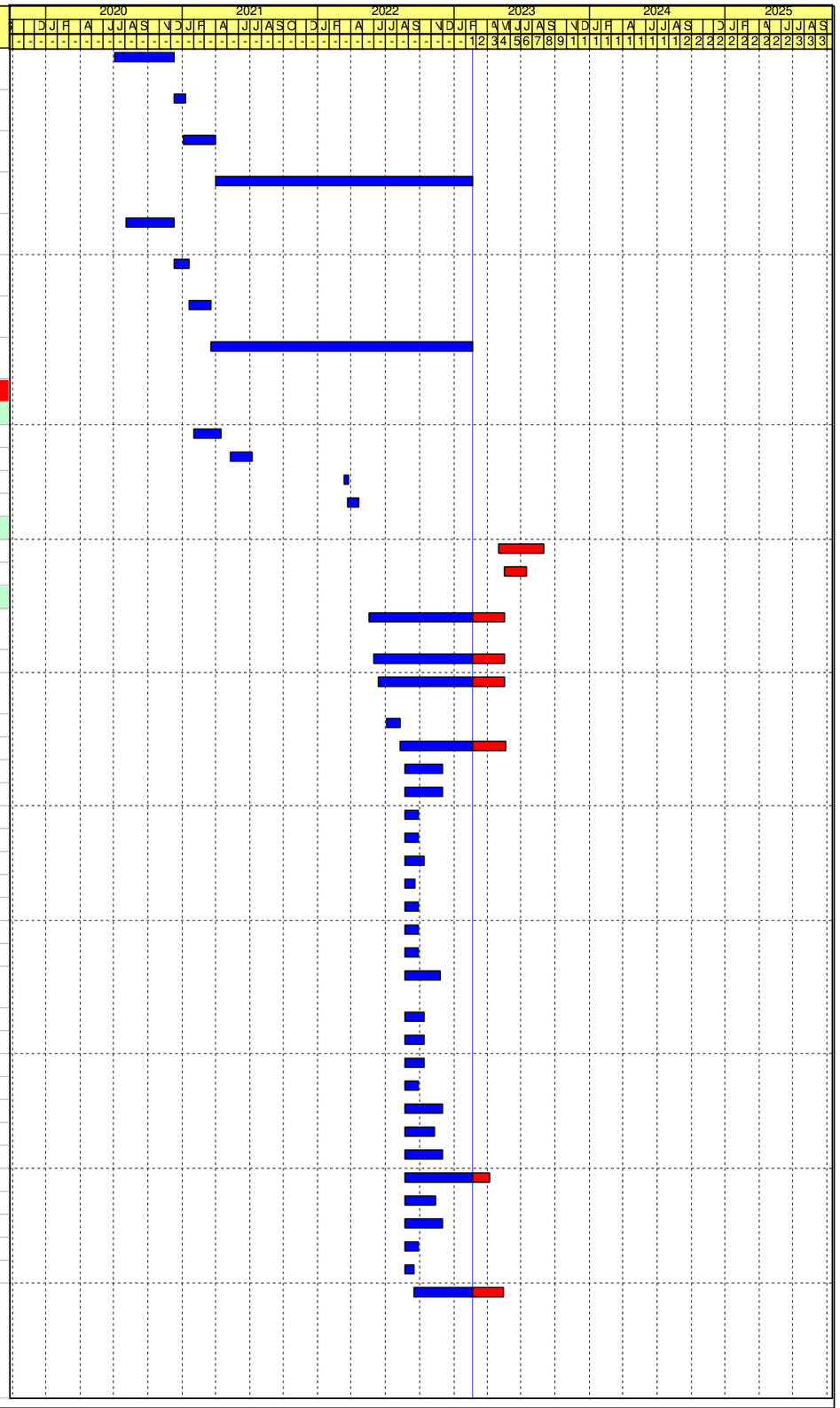
S3D1480	Prepare & Submit BS Works Design & Dwgs for Sidestream Treatment Facilities	264	03-Jul-20 A	10-Dec-20 A	16-Feb-23	16-Feb-23			S3D1490
S3D1490	Review & Comment on BS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21	11-Dec-20 A	11-Jan-21 A	16-Feb-23	16-Feb-23		S3D1480	S3D1500
S3D1500	Revise & Re-submit BS Works Design & Dwgs for Sidestream Treatment Facilities	102	05-Jan-21 A	31-Mar-21 A	16-Feb-23	16-Feb-23		S3D1490	S3D1510
S3D1510	Review & Accept of BS Works Design & Dwgs for Sidestream Treatment Facilities by PM	386	01-Apr-21 A	21-Feb-23	16-Feb-23	17-Feb-23	-5	S3D1500	S3S1020
S3D1520	Submission & Submit FS Works Design & Dwgs for Sidestream Treatment Facilities	182	03-Aug-20 A	10-Dec-20 A	16-Feb-23	16-Feb-23			S3D1530
S3D1530	Review & Comment on FS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21	11-Dec-20 A	19-Jan-21 A	16-Feb-23	16-Feb-23		S3D1520	S3D1540
S3D1540	Revise & Re-submit FS Works Design & Dwgs for Sidestream Treatment Facilities	66	20-Jan-21 A	19-Mar-21 A	16-Feb-23	16-Feb-23		S3D1530	S3D1550
S3D1550	Review & Accept of FS Works Design & Dwgs for Sidestream Treatment Facilities by PM	398	20-Mar-21 A	21-Feb-23	16-Feb-23	17-Feb-23	-5	S3D1540	S3S1020
Major Plant & Materials Procurement		942	18-Feb-20 A	20-Oct-23	09-Oct-22	27-Jun-23	-115		
Civil & Structure		378	01-Feb-21 A	19-Apr-22 A	04-Jan-23	04-Jan-23			
S3P1410	Procurement, Manufacture & Delivery of Piling	60	01-Feb-21 A	14-Apr-21 A	04-Jan-23	04-Jan-23			S3C1040
S3P1420	Procurement, Manufacture & Delivery of Metal Works Material	80	09-May-21 A	07-Jul-21 A	04-Jan-23	04-Jan-23			S3C1080
S3P1430	Procurement, Manufacture & Delivery of Steel Reinforcement	15	11-Mar-22 A	25-Mar-22 A	04-Jan-23	04-Jan-23			S3C1090
S3P1440	Procurement, Manufacture & Delivery of Concrete Mix	15	21-Mar-22 A	19-Apr-22 A	04-Jan-23	04-Jan-23			S3C1090
ABWF		120	02-May-23	29-Aug-23	18-Feb-23	18-Jun-23	-73		
S3P1450	Procurement, Manufacture & Delivery of ABWF Works Material	120	02-May-23	29-Aug-23	18-Feb-23	18-Jun-23	-73		S3C1140
S3P1460	Procurement, Manufacture & Delivery of Water Proofing Material	60	17-May-23	15-Jul-23	05-Mar-23	04-May-23	-73		S3C1130
E&M Process		408	20-May-22 A	01-Oct-23	09-Oct-22	07-Jun-23	-116		
S3P1470	Manufacture & Delivery of Primary and Secondary Clarifiers for Phospaq	300	20-May-22 A	16-May-23	04-Jan-23	29-Mar-23	-48		S3C2280, S3C2090
S3P1480	Manufacture & Delivery of Drum sludge thickener	289	31-May-22 A	16-May-23	15-Nov-22	07-Feb-23	-98		S3C2240
S3P1490	Manufacture & Delivery of Tilted Plates for Phospaq and Anammox internals	278	11-Jun-22 A	16-May-23	04-Jan-23	29-Mar-23	-48		S3C2100, S3C2110
S3P1500	Procurement of Air Blower System	36	04-Jul-22 A	08-Aug-22 A	02-Dec-22	02-Dec-22			S3P1510
S3P1510	Manufacture & Delivery of Air Blower System	222	09-Aug-22 A	19-May-23	02-Dec-22	27-Feb-23	-81	S3P1500	S3C2310
S3P1520	Procurement of Diffusers for Phospaq and Anammox Internals	93	21-Aug-22 A	02-Dec-22 A	05-Nov-22	05-Nov-22			S3P1950
S3P1530	Procurement of Ancillary Air Blower	96	21-Aug-22 A	02-Dec-22 A	05-Nov-22	05-Nov-22			S3P1970
S3P1540	Procurement of Buffer tank Lifting Pump	38	21-Aug-22 A	27-Sep-22 A	11-Oct-22	11-Oct-22			S3P1760
S3P1550	Procurement of Anammox feed pump and Sludge Discharge pump	38	21-Aug-22 A	27-Sep-22 A	18-Oct-22	18-Oct-22			S3P1770
S3P1560	Procurement of Metering Pump	55	21-Aug-22 A	14-Oct-22 A	21-Nov-22	21-Nov-22			S3P1850
S3P1570	Procurement of 2nd Sludge Pump	30	21-Aug-22 A	19-Sep-22 A	16-Dec-22	16-Dec-22			S3P1780
S3P1580	Procurement of Struvite Pump	38	21-Aug-22 A	27-Sep-22 A	30-Dec-22	30-Dec-22			S3P1790
S3P1590	Procurement of Primary Sludge Pump	38	21-Aug-22 A	27-Sep-22 A	06-Jan-23	06-Jan-23			S3P1800
S3P1600	Procurement of Drum Thickener Feed Pump	38	21-Aug-22 A	27-Sep-22 A	01-Nov-22	01-Nov-22			S3P1810
S3P1610	Procurement of FRP Tanks (NaOH, Micro-Nutrient, Anti-foamer and Polymer)	97	21-Aug-22 A	25-Nov-22 A	31-Oct-22	31-Oct-22			S3P1930
S3P1620	Procurement of NaOH Dosing Pump	55	21-Aug-22 A	14-Oct-22 A	30-Nov-22	30-Nov-22			S3P1860
S3P1630	Procurement of Micro-Nutrient Dosing Pump	55	21-Aug-22 A	14-Oct-22 A	30-Nov-22	30-Nov-22			S3P1870
S3P1640	Procurement of Anti-foamer Dosing Pump	55	21-Aug-22 A	14-Oct-22 A	30-Nov-22	30-Nov-22			S3P1880
S3P1650	Procurement of Polymer Dosing Pump	38	21-Aug-22 A	27-Sep-22 A	30-Nov-22	30-Nov-22			S3P1750
S3P1660	Procurement of DOU no.4	97	21-Aug-22 A	02-Dec-22 A	20-Oct-22	20-Oct-22			S3P1980
S3P1670	Procurement of SCADA System	153	21-Aug-22 A	10-Nov-22 A	25-Nov-22	25-Nov-22			S3P1910
S3P1680	Procurement of Local control panel parts for Drum Sludge Thickener	102	21-Aug-22 A	02-Dec-22 A	19-Nov-22	19-Nov-22			S3P1990
S3P1690	Procurement of uPVC pipe and GRP Pipe	101	21-Aug-22 A	07-Apr-23	25-Oct-22	09-Dec-22	-119		S3P2020
S3P1700	Procurement of EM Flowmeter	86	21-Aug-22 A	14-Nov-22 A	14-Oct-22	14-Oct-22			S3P1920
S3P1710	Procurement of Instrument	111	21-Aug-22 A	02-Dec-22 A	28-Oct-22	28-Oct-22			S3P2000
S3P1720	Procurement of PAM dosing pump	38	21-Aug-22 A	27-Sep-22 A	30-Nov-22	30-Nov-22			S3P1820
S3P1730	Procurement of Lifting Applicance	14	23-Aug-22 A	16-Sep-22 A	21-Nov-22	21-Nov-22			S3P1740
S3P1740	Manufacture & Delivery of Lifting Applicance	180	17-Sep-22 A	15-May-23	21-Nov-22	12-Feb-23	-92	S3P1730	S3C2170, S3C2180, S3C2190, S3C2260, S3C2270, S3C2290



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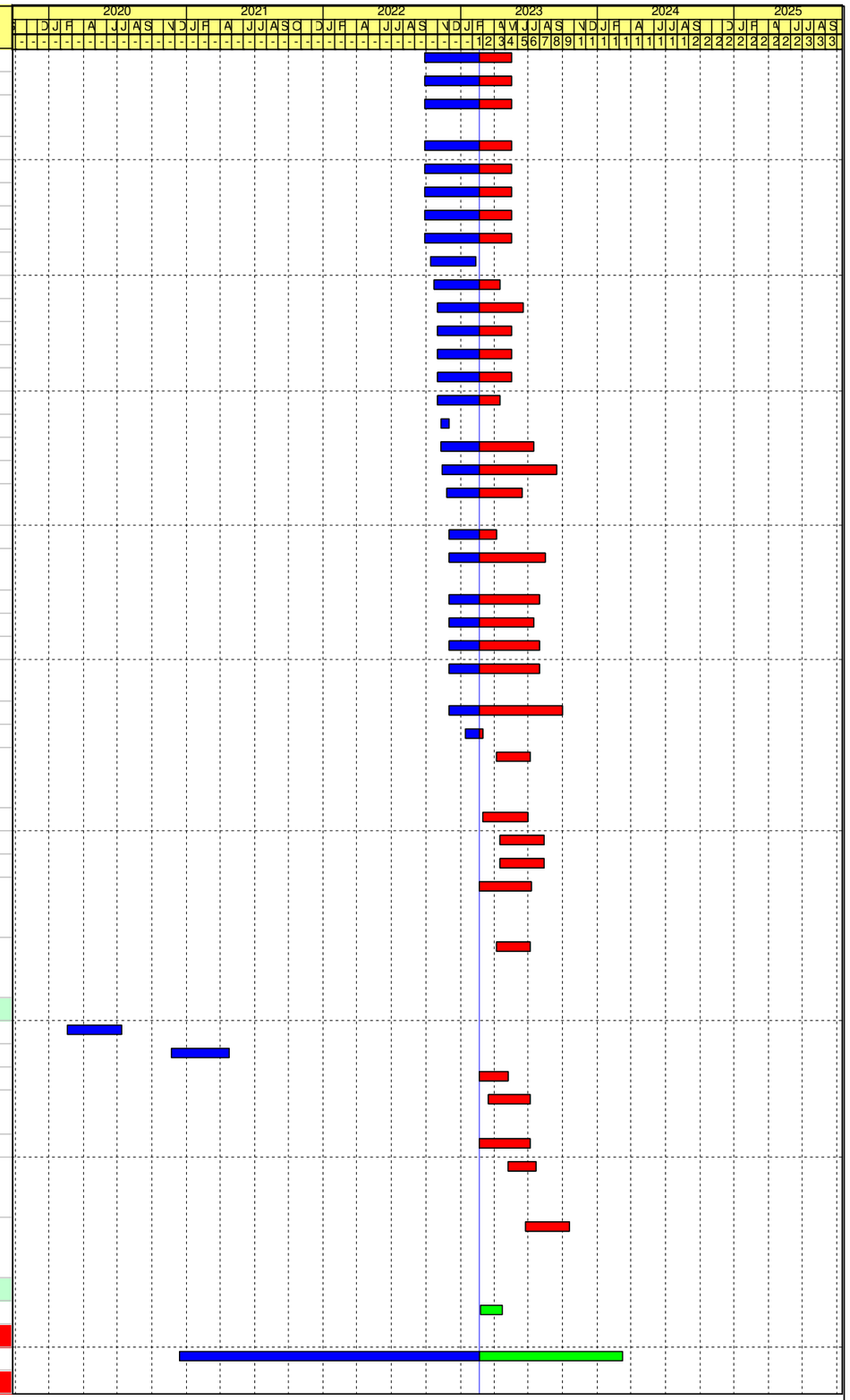
S3P1750	Manufacture & Delivery of Polymer Dosing Pump	169	28-Sep-22 A	16-May-23	30-Nov-22	22-Feb-23	-83	S3P1650	S3C2200
S3P1760	Manufacture & Delivery of Buffer tank Lifting Pump	168	29-Sep-22 A	16-May-23	11-Oct-22	03-Jan-23	-133	S3P1540	S3C2000
S3P1770	Manufacture & Delivery of Anammox feed pump and Anammox Sludge pump	168	29-Sep-22 A	16-May-23	18-Oct-22	10-Jan-23	-126	S3P1550	S3C2020, S3C2040
S3P1780	Manufacture & Delivery of 2nd Sludge Pump	168	29-Sep-22 A	16-May-23	16-Dec-22	10-Mar-23	-67	S3P1570	S3C2010
S3P1790	Manufacture & Delivery of Struvite Pump	168	29-Sep-22 A	16-May-23	30-Dec-22	24-Mar-23	-53	S3P1580	S3C2050
S3P1800	Manufacture & Delivery of Primary Sludge Pump	168	29-Sep-22 A	16-May-23	06-Jan-23	31-Mar-23	-46	S3P1590	S3C2070
S3P1810	Manufacture & Delivery of Drum Thickener Feed Pump	168	29-Sep-22 A	16-May-23	01-Nov-22	24-Jan-23	-112	S3P1600	S3C2060
S3P1820	Manufacture & Delivery of PAM dosing pump	168	29-Sep-22 A	16-May-23	30-Nov-22	22-Feb-23	-83	S3P1720	S3C2200
S3P1830	Procurement of PE pipework	90	15-Oct-22 A	11-Feb-23 A	21-Oct-22	21-Oct-22			S3P2060
S3P1840	Procurement of Flushing pump and Hot water pump	97	24-Oct-22 A	15-Apr-23	09-Oct-22	01-Dec-22	-135		S3P2050
S3P1850	Manufacture & Delivery of Metering Pump	136	31-Oct-22 A	17-Jun-23	21-Nov-22	17-Mar-23	-92	S3P1560	S3C2030
S3P1860	Manufacture & Delivery of NaOH Dosing pump	136	31-Oct-22 A	16-May-23	30-Nov-22	22-Feb-23	-83	S3P1620	S3C2200
S3P1870	Manufacture & Delivery of Micro-Nutrient Dosing Pump	136	31-Oct-22 A	16-May-23	30-Nov-22	22-Feb-23	-83	S3P1630	S3C2200
S3P1880	Manufacture & Delivery of Anti-foamer Dosing Pump	136	31-Oct-22 A	16-May-23	30-Nov-22	22-Feb-23	-83	S3P1640	S3C2200
S3P1890	Procurement of Electric Calorifier	101	01-Nov-22 A	15-Apr-23	09-Oct-22	01-Dec-22	-135		S3P2040
S3P1900	Procurement of Mixer	22	11-Nov-22 A	02-Dec-22 A	05-Nov-22	05-Nov-22			S3P1960
S3P1910	Manufacture & Delivery of SCADA System	260	11-Nov-22 A	14-Jul-23	25-Nov-22	18-Apr-23	-88	S3P1670	S3C2400
S3P1920	Manufacture & Delivery of EM Flowmeter	259	15-Nov-22 A	15-Sep-23	14-Oct-22	08-May-23	-130	S3P1700	S3C2430
S3P1930	Manufacture & Delivery of FRP Tanks (NaOH, Micro-Nutrient, Anti-foamer and Polymer)	140	26-Nov-22 A	15-Jun-23	31-Oct-22	22-Feb-23	-113	S3P1610	S3C2210
S3P1940	Procurement of SS pipe, Ductile Iron Pipes and Fittings	51	01-Dec-22 A	07-Apr-23	25-Oct-22	09-Dec-22	-119		S3P2070
S3P1950	Manufacture & Delivery of Diffusers for Phospaq and Anammox Internals	215	03-Dec-22 A	14-Aug-23	05-Nov-22	28-Apr-23	-108	S3P1520	S3C2130, S3C2140
S3P1960	Manufacture & Delivery of Mixer	210	03-Dec-22 A	31-Jul-23	05-Nov-22	14-Apr-23	-108	S3P1900	S3C2120
S3P1970	Manufacture & Delivery of Ancillary air blower	150	03-Dec-22 A	15-Jul-23	05-Nov-22	29-Mar-23	-108	S3P1530	S3C2340
S3P1980	Manufacture & Delivery of DOU no.4	210	03-Dec-22 A	31-Jul-23	20-Oct-22	29-Mar-23	-124	S3P1660	S3C2300
S3P1990	Manufacture & Delivery of Local control panel parts for Drum Sludge Thickener	210	03-Dec-22 A	31-Jul-23	19-Nov-22	28-Apr-23	-94	S3P1680	S3C2430
S3P2000	Manufacture & Delivery of Instrument	241	03-Dec-22 A	01-Oct-23	28-Oct-22	07-Jun-23	-116	S3P1710	S3C2430
S3P2010	Procurement of Heat Exchanger (Plate type)	24	14-Jan-23 A	28-Feb-23	12-Oct-22	19-Oct-22	-132		S3P2030
S3P2020	Manufacture & Delivery of uPVC pipe and GRP Pipe	90	08-Apr-23	06-Jul-23	10-Dec-22	09-Mar-23	-119	S3P1690	S3C2250, S3C2350, S3C2150
S3P2030	Manufacture & Delivery of Heat Exchanger (Plate type)	120	01-Mar-23	28-Jun-23	20-Oct-22	16-Feb-23	-132	S3P2010	S3C2220
S3P2040	Manufacture & Delivery of Electric Calorifier	120	16-Apr-23	13-Aug-23	02-Dec-22	31-Mar-23	-135	S3P1890	S3C2320
S3P2050	Manufacture & Delivery of Flushing pump and Hot water pump	120	16-Apr-23	13-Aug-23	02-Dec-22	31-Mar-23	-135	S3P1840	S3C2320
S3P2060	Manufacture & Delivery of PE pipework	140	21-Feb-23	10-Jul-23	21-Oct-22	09-Mar-23	-123	S3P1830	S3C2250, S3C2150, S3C2350
S3P2070	Manufacture & Delivery of SS pipe, Ductile Iron Pipes and Fittings	90	08-Apr-23	06-Jul-23	10-Dec-22	09-Mar-23	-119	S3P1940	S3C2150, S3C2250, S3C2350
BS		435	18-Feb-20 A	20-Oct-23	19-Oct-22	27-Jun-23	-115		
S3P2080	Procurement of Transformer	75	18-Feb-20 A	13-Jul-20 A	29-Oct-22	29-Oct-22			S3P2120
S3P2090	Procurement of Low Voltage Switchboard and Accessories	80	21-Nov-20 A	23-Apr-21 A	12-Dec-22	12-Dec-22			S3P2110
S3P2100	Procurement of MVAC System	76	21-Feb-23	07-May-23	19-Oct-22	03-Jan-23	-125		S3P2130
S3P2110	Manufacture & Delivery of Low Voltage Switchboard and Accessories	112	18-Mar-23*	07-Jul-23	12-Dec-22	02-Apr-23	-96	S3P2090	S3C2380
S3P2120	Manufacture & Delivery of Transformer	136	21-Feb-23	06-Jul-23	29-Oct-22	13-Mar-23	-115	S3P2080	S3C2360
S3P2130	Manufacture & Delivery of MVAC System	75	08-May-23	21-Jul-23	03-Jan-23	19-Mar-23	-125	S3P2100	S3C2490, S3C2500, S3C2530
S3P2140	Procurement, Manufacture & Delivery of BS Works Material	120	23-Jun-23	20-Oct-23	28-Feb-23	27-Jun-23	-115		S3T1170, S3C2420, S3T1270
Fitting-out		60	22-Feb-23	22-Apr-23	19-Apr-23	18-Jun-23	57		
S3P2150	Procurement, Manufacture & Delivery of Fit-out Works Material	60	22-Feb-23	22-Apr-23	19-Apr-23	18-Jun-23	57	S3D1090	S3C1140
Ground Settlement, Tilting & Utility Monitoring		1184	12-Dec-20 A	09-Mar-24	26-May-23	12-Jun-24	95		
S3C1000	Ground Settlement, Tilting & Utility Monitoring	1184	12-Dec-20 A	09-Mar-24	26-May-23	12-Jun-24	95	S3C1010	SC31110
Civil Works Construction		1613	30-Sep-20 A	21-Mar-25	05-Oct-22	12-Jun-24	-283		



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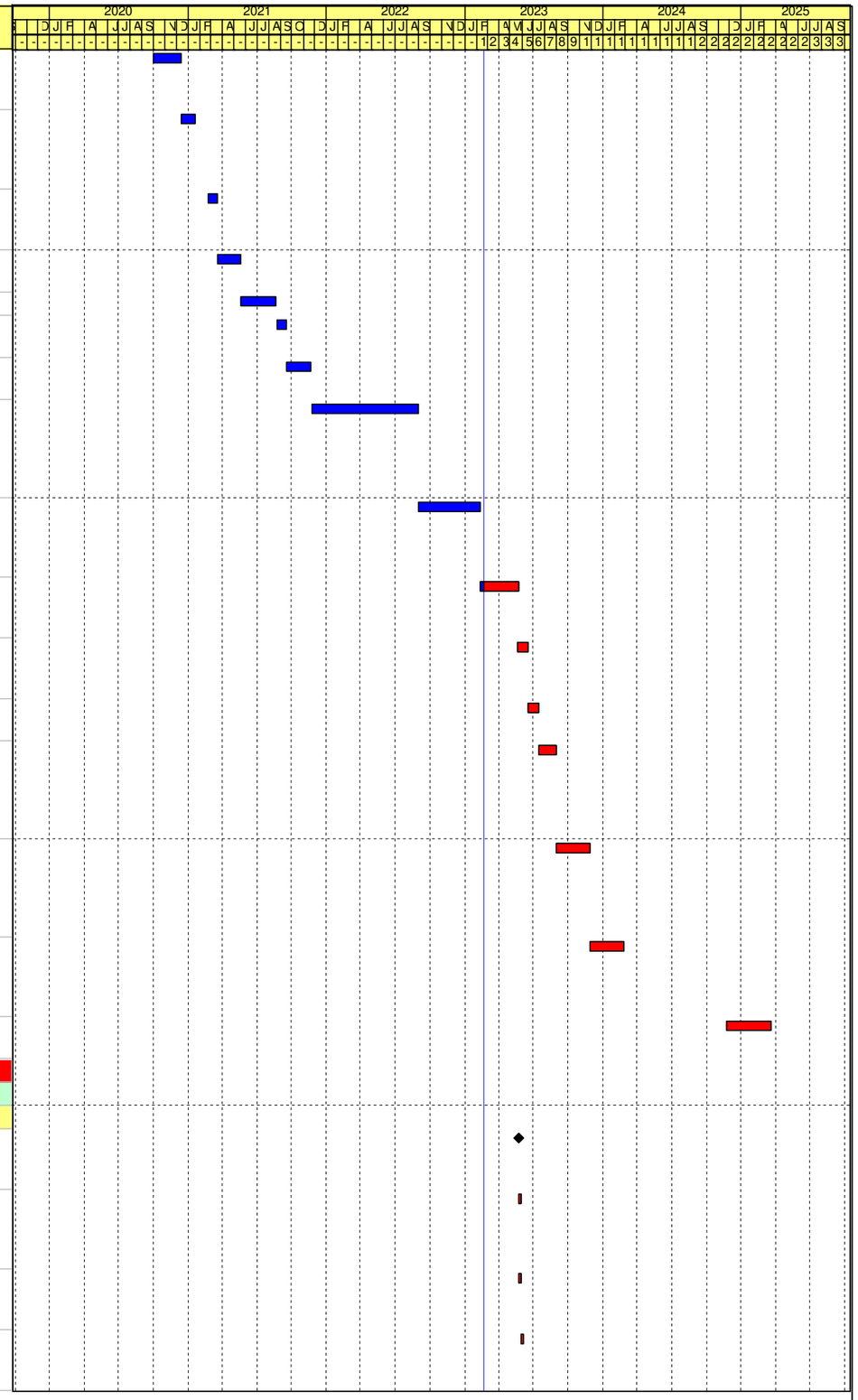
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S3C1010	Site Clearance & Survey	50	30-Sep-20 A	12-Dec-20 A	04-Jan-23	04-Jan-23		S3D1240, AD1140, S3P1090	S3C1020, S3C1000
S3C1020	Ground Investigation	65	12-Dec-20 A	18-Jan-21 A	04-Jan-23	04-Jan-23		AD1140, S3C1010, S3P1170, S3D1230	S3C1030
S3C1030	Pre-drilling Works	180	22-Feb-21 A	19-Mar-21 A	04-Jan-23	04-Jan-23		S3C1020, S3P1250, S3P1330	S3C1040
S3C1040	Minor Civil Works & Preperation Works for Piling	31	20-Mar-21 A	20-May-21 A	04-Jan-23	04-Jan-23		S3C1030, S3P1410	S3C1050
S3C1050	Piling Works (Impacted by Inclement Weather)	69	21-May-21 A	21-Aug-21 A	04-Jan-23	04-Jan-23		S3C1040	S3C1060
S3C1060	Post-drilling, Proof test & remaining works (Impacted by Inclement Weather)	23	22-Aug-21 A	17-Sep-21 A	04-Jan-23	04-Jan-23		S3C1050	S3C1080, S3C1070
S3C1070	Site Set-up / Mobilisation (Impacted by Inclement Weather)	51	18-Sep-21 A	20-Nov-21 A	04-Jan-23	04-Jan-23		S3C1060, S3P1400	S3C1080
S3C1080	Excavation / ELS (Impacted by Inclement Weather)	157	24-Nov-21 A	31-Aug-22 A	04-Jan-23	04-Jan-23		S3D1440, S3P1420, S3D1390, S3C1060, S3C1070	S3C1090
S3C1090	Pile Caps installation & Basement Slab	89	01-Sep-22 A	11-Feb-23 A	04-Jan-23	04-Jan-23		S3C1080, S3P1440, S3P1430, S3D1190	S3C1130, S3C1995
S3C1100	Construction of Basement up to G/F Slab	62	12-Feb-23 A	22-May-23	05-Oct-22	03-Jan-23	-139	S3D1350, S3S1010	S3C1110, S3C1130, S3C1995
S3C1110	Construction of G/F up to 1/F Slab	28	20-May-23	16-Jun-23	02-Jan-23	29-Jan-23	-138	S3C1100	S3C1120, S3C1130, S3C2155
S3C1120	Construction of 1/F up to Roof	29	17-Jun-23	15-Jul-23	30-Jan-23	27-Feb-23	-138	S3C1110	S3C1130, S3C2285
S3C1130	Waterproofing	45	16-Jul-23	29-Aug-23	04-May-23	18-Jun-23	-73	S3P1460, S3C1120, S3C1090, S3C1100, S3C1110	S3C1140
S3C1140	External & Internal Finishes - 1st Fix (Blockwork, Plastering, Wet Trade)	90	30-Aug-23	27-Nov-23	18-Jun-23	16-Sep-23	-73	S3C1130, S3P1450, S3D1090, S3D1130, S3P2150	S3C1150, S3C1160
S3C1150	External & Internal Finishes - 2nd Fix (Ceiling / Wall / Floor Finishing, Door)	90	28-Nov-23	25-Feb-24	16-Sep-23	15-Dec-23	-73	S3C1140	SC31110, S3S1170, S3C1160, PL1190
S3C1160	Landscaping Works	120	22-Nov-24	21-Mar-25	13-Feb-24	12-Jun-24	-283	S3C1140, S3C1150	SC31110
E&M Installation		181	23-May-23	19-Nov-23	04-Jan-23	15-Feb-24	88		
Mechanical Installations		159	23-May-23	28-Oct-23	04-Jan-23	01-Dec-23	34		
Basement		154	23-May-23	23-Oct-23	04-Jan-23	12-Jun-23	-133		
S3C1995	Access to Sidestream Treatment Facilities (B/F)	0	23-May-23		04-Jan-23		-139	S3C1090, S3C1100, S3D1470	S3C2000, S3C2450, S3C2460
S3C2000	Installation of Buffer Tank Lifting pumps (3 nos.)	7	23-May-23	29-May-23	04-Jan-23	10-Jan-23	-139	S3P1760, S3C1995	S3C2020, S3C2150, S3T1030, S3C2010
S3C2010	Installation of Secondary Clarifier Sludge discharge pumps (3 nos.)	7	23-May-23	29-May-23	11-Mar-23	17-Mar-23	-73	S3P1780, S3C2000	S3C2030, S3C2150, S3T1030
S3C2020	Installation of Anammox Feed pumps (3 nos.)	7	30-May-23	05-Jun-23	11-Jan-23	17-Jan-23	-139	S3C2000, S3P1770	S3C2040, S3C2150, S3T1030



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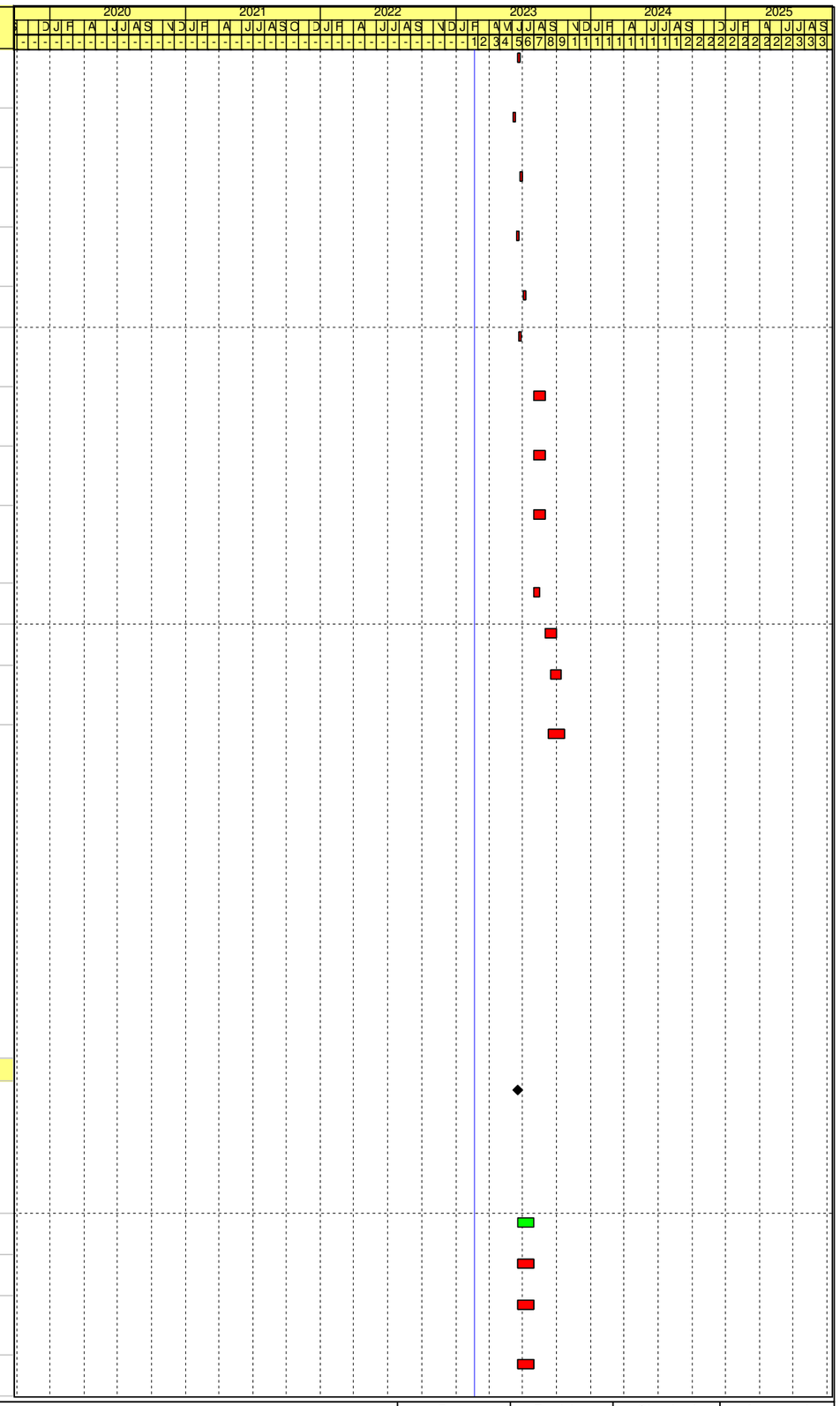
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S3C2030	Installation of Metering Pumps (2 nos.)	7	18-Jun-23	24-Jun-23	18-Mar-23	24-Mar-23	-92	S3C2010, S3P1850	S3C2050, S3C2150, S3T1030
S3C2040	Installation of Anammox Sludge discharge pumps (2 nos.)	7	06-Jun-23	12-Jun-23	18-Jan-23	24-Jan-23	-139	S3C2020, S3P1770	S3C2060, S3C2150, S3T1030
S3C2050	Installation of Struvite Pumps (3 nos.)	7	25-Jun-23	01-Jul-23	25-Mar-23	31-Mar-23	-92	S3C2030, S3P1790	S3C2070, S3C2150, S3T1030
S3C2060	Installation of Thickener feed pumps (2 nos.)	7	13-Jun-23	19-Jun-23	25-Jan-23	31-Jan-23	-139	S3C2040, S3P1810	S3C2080, S3C2150, S3T1030
S3C2070	Installation of Primary Clarifier sludge discharge pump (3 nos.)	7	02-Jul-23	08-Jul-23	01-Apr-23	07-Apr-23	-92	S3C2050, S3P1800	S3C2150, S3T1030
S3C2080	Installation of Flushing Pump (2 nos.)	7	20-Jun-23	26-Jun-23	01-Feb-23	07-Feb-23	-139	S3C2060	S3C2150, S3C2240, S3T1030
S3C2090	Installation of Secondary Clarifiers No.1 and 2	30	01-Aug-23	30-Aug-23	30-Mar-23	28-Apr-23	-124	S3P1470, S3C2180	S3C2110, S3C2150, S3T1110
S3C2100	Installation of Tilted Plates for Phospaq No.1 and 2	30	01-Aug-23	30-Aug-23	30-Mar-23	28-Apr-23	-124	S3C2280, S3P1490	S3C2150, S3C2130, S3T1140
S3C2110	Installation of Tilted Plates for Anammox No. 1 and 2	30	01-Aug-23	30-Aug-23	30-Mar-23	28-Apr-23	-124	S3C2090, S3P1490, S3C2260, S3C2270	S3C2150, S3C2140, S3T1150
S3C2120	Installation of Mixer for Thickened Sludge Tank, Sludge MIxing Tank, Anammox Effluent Chamber and Filtrate Buffer Tank	14	01-Aug-23	14-Aug-23	15-Apr-23	28-Apr-23	-108	S3P1960, S3C2190	S3C2150, S3T1090
S3C2130	Installation of Diffusers and pipework for Phospaq	30	31-Aug-23	29-Sep-23	29-Apr-23	28-May-23	-124	S3P1950, S3C2100	S3C2150, S3T1140
S3C2140	Installation of Diffusers and pipework for Anammox	30	14-Sep-23	13-Oct-23	29-Apr-23	28-May-23	-138	S3C2340, S3P1950, S3C2110	S3C2150, S3T1150
S3C2150	Installation of Pipeworks, Associate Valves and Fittings	45	09-Sep-23	23-Oct-23	29-Apr-23	12-Jun-23	-133	S3C2000, S3C2010, S3C2020, S3C2030, S3C2040, S3C2050, S3C2060, S3C2070, S3C2080, S3C2120, S3C2090, S3C2100, S3C2110, S3C2130, S3C2140, S3P2060, S3P2070, S3P2020	S3T1000
G/F		100	17-Jun-23	24-Sep-23	08-Feb-23	01-Dec-23	68		
S3C2155	Access to Sidestream Treatment Facilities (G/F)	0	17-Jun-23		08-Feb-23		-129	S3C1110	S3C2200, S3C2170, S3C2210, S3C2240, S3C2220, S3C2250, S3C2160
S3C2160	E&M installation of DG Plant Room	45	17-Jun-23	31-Jul-23	17-Oct-23	01-Dec-23	123	S3C2155, S3S1100	S3S1110
S3C2170	Installation of Lifting Appliance (LA-01)	45	17-Jun-23	31-Jul-23	13-Feb-23	29-Mar-23	-124	S3P1740, S3C2155	S3C2180, S3C2280
S3C2180	Installation of Lifting Appliance (LA-02)	45	17-Jun-23	31-Jul-23	13-Feb-23	29-Mar-23	-124	S3C2170, S3P1740	S3C2090, S3C2190, S3C2270
S3C2190	Installation of Lifting Appliance (LA-03)	45	17-Jun-23	31-Jul-23	13-Feb-23	29-Mar-23	-124	S3P1740, S3C2180	S3C2260, S3C2120



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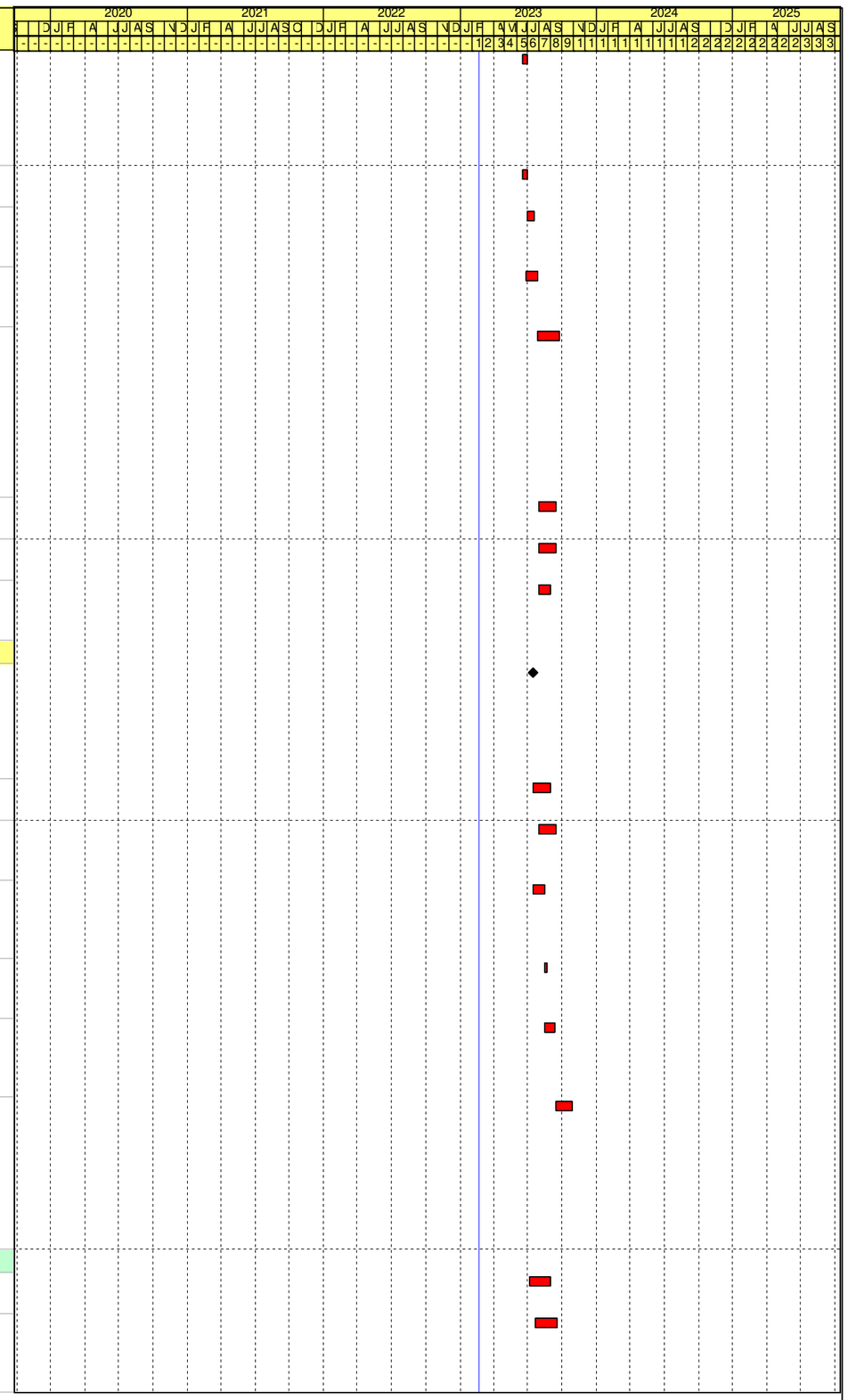
S3C2200	Installation of NaOH Dosing Pumps, Micro-Nutrient Dosing Pumps, Defoamer Dosing Pumps and PAM Dosing Pumps (12 nos.)	15	17-Jun-23	01-Jul-23	23-Feb-23	09-Mar-23	-114	S3P1860, S3P1870, S3P1880, S3P1820, S3C2155, S3P1750	S3C2250, S3T1030, S3T1020
S3C2210	Installation of PAM Tank, Deformer dissolving Tank, Micro-nutrient tank and NaOH Tank	15	17-Jun-23	01-Jul-23	23-Feb-23	09-Mar-23	-114	S3P1930, S3C2155	S3C2250, S3T1020
S3C2220	Installation of Heat Exchanger system	21	29-Jun-23	19-Jul-23	17-Feb-23	09-Mar-23	-132	S3P2030, S3C2155	S3C2340, S3C2250, S3T1010
S3C2240	Installation of Drum Sludge Thickener	30	27-Jun-23	26-Jul-23	08-Feb-23	09-Mar-23	-139	S3P1480, S3C2080, S3C2155	S3C2250, S3T1040
S3C2250	Installation of Pipeworks, Associate Valves and Fittings	60	27-Jul-23	24-Sep-23	10-Mar-23	08-May-23	-139	S3C2280, S3C2200, S3C2210, S3C2240, S3C2220, S3P2060, S3P2070, S3P2020, S3C2155	S3T1000, S3C2430
S3C2260	Installation of Lifting Appliance (LA-04)	45	01-Aug-23	14-Sep-23	30-Mar-23	13-May-23	-124	S3P1740, S3C2190	S3C2110
S3C2270	Installation of Lifting Appliance (LA-05)	45	01-Aug-23	14-Sep-23	30-Mar-23	13-May-23	-124	S3P1740, S3C2180	S3C2110
S3C2280	Installation of Primary Clarifiers No.1 and 2	30	01-Aug-23	30-Aug-23	30-Mar-23	28-Apr-23	-124	S3P1470, S3C2170	S3C2100, S3C2250, S3T1100
1/F		105	16-Jul-23	28-Oct-23	28-Feb-23	12-Jun-23	-138		
S3C2285	Access to Sidestream Treatment Facilities (1/F)	0	16-Jul-23		28-Feb-23		-138	S3C1120	S3C2290, S3C2300, S3C2310, S3C2340, S3C2320, S3C2350
S3C2290	Installation of Lifting Appliance (LA-06)	45	16-Jul-23	29-Aug-23	28-Feb-23	13-Apr-23	-138	S3P1740, S3C2285	S3C2310
S3C2300	Installation of Deodorisation System (DOU) No.4	45	01-Aug-23	14-Sep-23	30-Mar-23	13-May-23	-124	S3P1980, S3C2310, S3C2285	S3C2350, S3T1080
S3C2310	Installation of Air Blower System	30	16-Jul-23	14-Aug-23	28-Feb-23	29-Mar-23	-138	S3P1510, S3C2290, S3C2285	S3C2340, S3C2350, S3C2300, S3T1060
S3C2320	Installation of Electric Calorifier and hot water Pumps	7	14-Aug-23	20-Aug-23	01-Apr-23	07-Apr-23	-135	S3P2050, S3P2040, S3C2285	S3C2350, S3T1030
S3C2340	Installation of Ancillary Air Blower	30	15-Aug-23	13-Sep-23	30-Mar-23	28-Apr-23	-138	S3C2220, S3P1970, S3C2310, S3C2285	S3C2140, S3C2350, S3T1060
S3C2350	Installation of Pipeworks, Associate Valves and Fittings	45	14-Sep-23	28-Oct-23	29-Apr-23	12-Jun-23	-138	S3C2310, S3C2340, S3C2320, S3C2300, S3P2060, S3P2070, S3P2020, S3C2285	S3T1000
Electrical Installations		136	07-Jul-23	19-Nov-23	14-Mar-23	15-Feb-24	88		
S3C2360	Installation of Transformer room	55	07-Jul-23	30-Aug-23	14-Mar-23	07-May-23	-115	S3P2120	S3T1120, S3C2380
S3C2370	Installation of Electrical system - Cable Containment	60	22-Jul-23	19-Sep-23	19-Mar-23	18-May-23	-125	S3C2490	S3C2390, S3T1280, S3C2410, S3C2400



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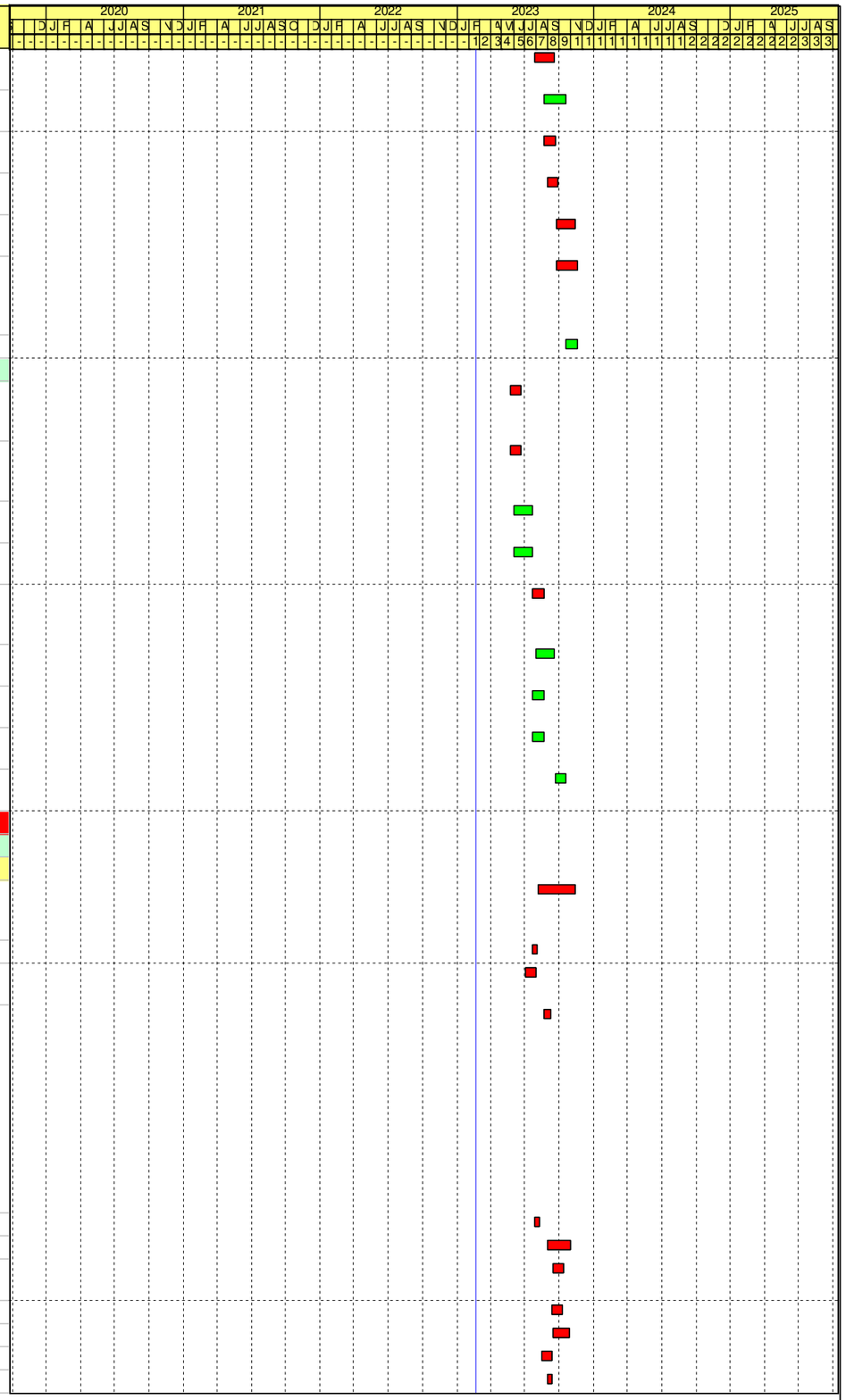
S3C2380	Installation of LV Switchroom	55	27-Jul-23	19-Sep-23	03-Apr-23	27-May-23	-115	S3P2110, S3C2360	S3C2410, S3T1120
S3C2390	Installation of Electrical system - Wall Mount Equipment, Conduit & Wiring	60	21-Aug-23	19-Oct-23	17-Nov-23	16-Jan-24	89	S3C2370	S3C2440, S3T1280
S3C2400	Installation of SCADA system	31	21-Aug-23	20-Sep-23	18-Apr-23	19-May-23	-125	S3C2370, S3P1910	S3T1050
S3C2410	Power Cable laying and Termination	30	30-Aug-23	28-Sep-23	28-May-23	26-Jun-23	-94	S3C2380, S3C2370	S3T1160
S3C2420	Installation of Gas Detection System	50	25-Sep-23	13-Nov-23	09-May-23	27-Jun-23	-139	S3P2140, S3C2430	S3T1170
S3C2430	Installation of Online Monitoring instrument / Level Control Equipment	56	25-Sep-23	19-Nov-23	09-May-23	03-Jul-23	-139	S3P2000, S3P1920, S3P1990, S3C2250	S3C2420
S3C2440	Installation of Electrical system - Lighting and Small Power Accessories	30	20-Oct-23	18-Nov-23	16-Jan-24	15-Feb-24	89	S3C2390	S3T1280
BS Equipment Installation		150	23-May-23	19-Oct-23	17-Feb-23	15-Feb-24	119		
S3C2450	Installation of P&D System - Main Pipework	30	23-May-23	21-Jun-23	17-Feb-23	19-Mar-23	-95	S3C2460, S3S1020, S3C1995	S3C2470, S3C2490, S3T1250
S3C2460	Installation of FS system - Main Pipework	30	23-May-23	21-Jun-23	17-Feb-23	19-Mar-23	-95	S3S1020, S3C1995	S3C2480, S3C2450, S3T1240
S3C2470	Installation of P&D System - Branch Pipework	50	02-Jun-23	21-Jul-23	18-Oct-23	07-Dec-23	139	S3C2450	S3C2510, S3T1250
S3C2480	Installation of FS system - Branch Pipework, Conduit & Wiring	50	02-Jun-23	21-Jul-23	18-Oct-23	07-Dec-23	139	S3C2460	S3C2520, S3T1240
S3C2490	Installation of MVAC system - Ceiling Mount Equipment, Main Ductwork & Pipework	30	22-Jul-23	20-Aug-23	19-Mar-23	18-Apr-23	-125	S3C2450, S3P2130	S3C2500, S3T1260, S3C2370
S3C2500	Installation of MVAC system - Wall Mount Equipment, Branch Duct & pipework	50	01-Aug-23	19-Sep-23	27-Nov-23	16-Jan-24	119	S3C2490, S3P2130	S3C2530, S3T1260
S3C2510	Installation of P&D System - Sanitary Fitting	30	22-Jul-23	20-Aug-23	07-Dec-23	06-Jan-24	139	S3C2470	S3T1250, S3S1030
S3C2520	Installation of FS system - Dropper, Sprinkler Head, Detector & Devices	30	22-Jul-23	20-Aug-23	07-Dec-23	06-Jan-24	139	S3C2480	S3T1240, S3S1030
S3C2530	Installation of MVAC system - Air Grills & Diffuser	30	20-Sep-23	19-Oct-23	16-Jan-24	15-Feb-24	119	S3C2500, S3P2130	S3T1260
Testing & Commissioning		629	02-Jul-23	21-Mar-25	20-Mar-23	12-Jun-24	-283		
For KD3A - Completion of Phase 1 Commissioning - 15 Jan 2024		301	02-Jul-23	27-Apr-24	20-Mar-23	17-Feb-24	-71		
SAT		134	02-Jul-23	12-Nov-23	20-Mar-23	27-Jun-23	-138		
S3T1000	Pipe Pressure Test	100	05-Aug-23	12-Nov-23	20-Mar-23	27-Jun-23	-138	S3C2150, S3C2250, S3C2350	S3T1170
S3T1010	SAT for Heat Exchanger	14	20-Jul-23	02-Aug-23	14-Jun-23	27-Jun-23	-36	S3C2220	S3T1170
S3T1020	SAT for Dosing system	30	02-Jul-23	31-Jul-23	29-May-23	27-Jun-23	-34	S3C2210, S3C2200	S3T1170
S3T1030	Dry Test for Pumps	21	21-Aug-23	10-Sep-23	08-Apr-23	28-Apr-23	-135	S3C2000, S3C2010, S3C2020, S3C2030, S3C2040, S3C2050, S3C2060, S3C2070, S3C2080, S3C2200, S3C2320	S3T1070
S3T1040	SAT for Drum Sludge Thickener	14	27-Jul-23	09-Aug-23	14-Jun-23	27-Jun-23	-43	S3C2240	S3T1170
S3T1050	SAT for SCADA System	60	31-Aug-23	30-Oct-23	29-Apr-23	27-Jun-23	-125	S3C2400	S3T1170
S3T1060	SAT for Air blowers	30	14-Sep-23	13-Oct-23	29-May-23	27-Jun-23	-108	S3C2310, S3C2340	S3T1170
S3T1070	Wet Test for Pumps	30	11-Sep-23	10-Oct-23	29-Apr-23	28-May-23	-135	S3T1030	S3T1130
S3T1080	SAT for DOU no.4	45	15-Sep-23	29-Oct-23	14-May-23	27-Jun-23	-124	S3C2300	S3T1170
S3T1090	SAT for mixer	30	15-Aug-23	13-Sep-23	29-May-23	27-Jun-23	-78	S3C2120	S3T1170
S3T1100	SAT for Primary clarifier	14	31-Aug-23	13-Sep-23	14-Jun-23	27-Jun-23	-78	S3C2280	S3T1170



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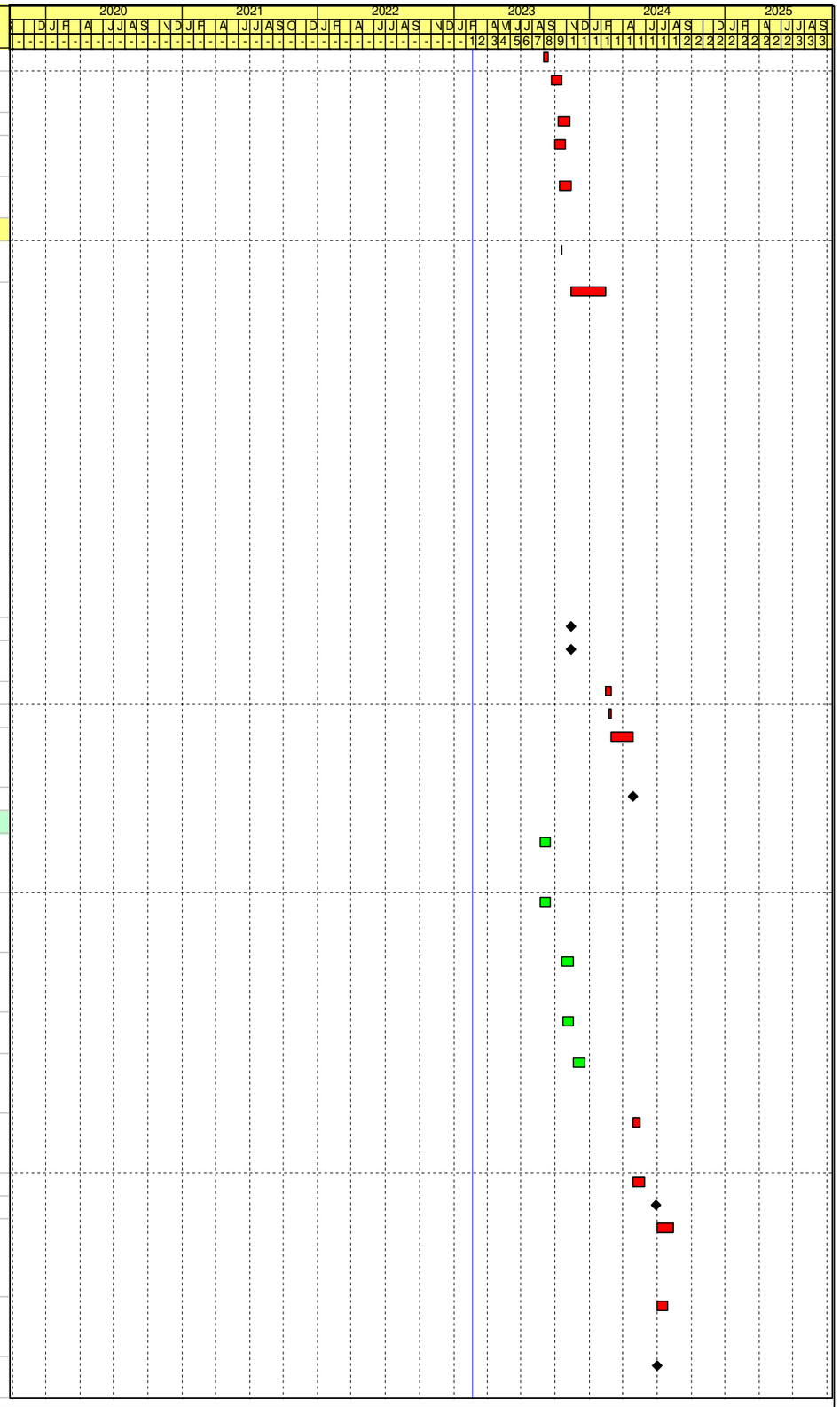
S3T1110	SAT for Secondary clarifier	14	31-Aug-23	13-Sep-23	14-Jun-23	27-Jun-23	-78	S3C2090	S3T1170
S3T1120	SAT for TX & LV Switchboard	30	20-Sep-23	19-Oct-23	28-May-23	26-Jun-23	-115	S3C2380, S3C2360	S3T1160
S3T1130	Functional Test for Pumps	30	11-Oct-23	09-Nov-23	29-May-23	27-Jun-23	-135	S3T1070	S3T1170
S3T1140	SAT for Phospaq Reactor	30	30-Sep-23	29-Oct-23	29-May-23	27-Jun-23	-124	S3C2130, S3C2100	S3T1170
S3T1150	SAT for Anammox Reactor	30	14-Oct-23	12-Nov-23	29-May-23	27-Jun-23	-138	S3C2140, S3C2110	S3T1170
Process Start Up & Phase 1 Commissioning Test		191	20-Oct-23	27-Apr-24	27-Jun-23	17-Feb-24	-71		
S3T1160	Power Energization (Power Provision from DE/2018/04 Contract)	1	20-Oct-23	20-Oct-23	27-Jun-23	27-Jun-23	-115	S3T1120, S3C2410	S3T1270, S3T1170
S3T1170	Process Start Up	92	14-Nov-23	13-Feb-24	28-Jun-23	27-Sep-23	-139	S3T1190, S3T1180, S3C2420, S3P2140, S3T1160, S3T1130, S3T1100, S3T1110, S3T1060, S3T1040, S3T1090, S3T1010, S3T1020, S3T1080, S3T1150, S3T1140, S3T1000, S3T1050	S3T1200
S3T1180	Existing sludge dewatering facilities Ready (by DE/2018/04 Contract)	0		13-Nov-23		27-Jun-23	-139		S3T1170
S3T1190	Plant service water from zone B/C Ready (Zone B by DE/2018/04 Contract)	0		13-Nov-23		27-Jun-23	-139		S3T1170
S3T1200	Submission & Acceptance of Process Start Up Report	14	14-Feb-24	27-Feb-24	28-Sep-23	11-Oct-23	-139	S3T1170	S3T1210
S3T1210	Notice for Commencement of Phase 1 Commissioning Tests	7	21-Feb-24	27-Feb-24	05-Oct-23	11-Oct-23	-139	S3T1200	S3T1220
S3T1220	Phase 1 Commissioning Tests with daily result to PM	60	28-Feb-24	27-Apr-24	12-Oct-23	10-Dec-23	-139	S3T1210	S3T1300, S3T1290, S3T1230
S3T1230	Completion of KD3A	0		27-Apr-24		17-Feb-24	-71	S3T1220	KD1050-2
For Section 3 Completion - Remaining Commissioning Works - 05 Jun 2024		579	21-Aug-23	21-Mar-25	11-Dec-23	12-Jun-24	-283		
S3T1240	SAT for FS system	30	21-Aug-23	19-Sep-23	15-Feb-24	16-Mar-24	179	S3C2520, S3C2460, S3C2480	S3S1170
S3T1250	SAT for P&D system	30	21-Aug-23	19-Sep-23	15-Feb-24	16-Mar-24	179	S3C2450, S3C2470, S3C2510	S3S1170
S3T1260	SAT for MVAC System	30	20-Oct-23	18-Nov-23	15-Feb-24	16-Mar-24	119	S3C2530, S3C2490, S3C2500	S3S1170
S3T1270	Essential T&C for FSD Inspection	30	21-Oct-23	19-Nov-23	11-Jan-24	10-Feb-24	83	S3T1160, S3P2140	S3S1150
S3T1280	SAT for Electrical System (BS)	30	19-Nov-23	18-Dec-23	15-Feb-24	16-Mar-24	89	S3C2370, S3C2390, S3C2440	S3S1170
S3T1290	Phase 1 Post Commissioning with daily result to PM	19	28-Apr-24	16-May-24	11-Dec-23	29-Dec-23	-139	S3T1220	S3T1330, S3T1320, S5T1120
S3T1300	Submission & Acceptance of Phase 1 Commissioning Tests Report	30	28-Apr-24	27-May-24	21-Feb-24	22-Mar-24	-67	S3T1220	S3T1330
S3T1310	THP digested sludge centrate from Zone C Ready	0		29-Jun-24		22-Feb-24	-128		S3T1320
S3T1320	Phase 2 Commissioning Tests with daily result to PM	45	30-Jun-24	13-Aug-24	23-Feb-24	07-Apr-24	-128	S3T1310, S3T1290, S3T1340	S3T1350, S3T1360, S3T1370, S5T1200
S3T1330	Submission & Acceptance of Phase 1 Post Commissioning Report	30	30-Jun-24	29-Jul-24	22-Mar-24	21-Apr-24	-100	S3T1290, S3T1340, S3T1300	S3T1350
S3T1340	Ready to Process start up of the first Anaerobic Digester in Zone C	0	30-Jun-24		23-Feb-24		-128	S5T1120	S3T1330, S3T1320



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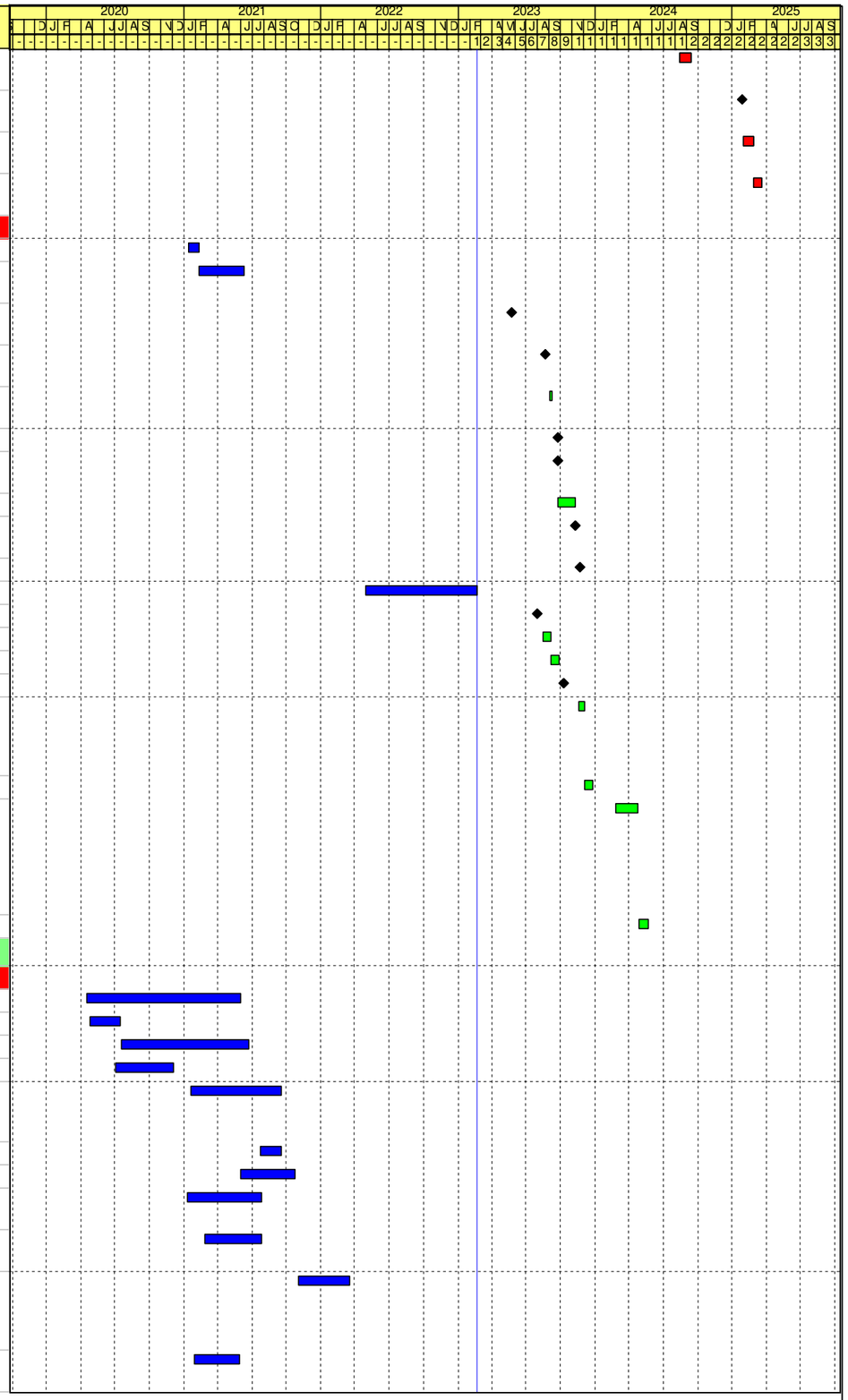
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S3T1350	Submission & Acceptance of Phase 2 Commissioning Tests Report	30	14-Aug-24	12-Sep-24	21-Apr-24	21-May-24	-115	S3T1320, S3T1330	S3T1380
S3T1360	Commissioning of new Anaerobic Digesters (2 nos.) in Zone C Finished	0		28-Jan-25		21-Apr-24	-283	S3T1320, S5T1180	S3T1370
S3T1370	Phase 3 Commissioning Tests with daily result to PM	30	29-Jan-25	27-Feb-25	21-Apr-24	21-May-24	-283	S3T1360, S3T1320	S3T1380
S3T1380	Submission & Acceptance of Phase 3 Commissioning Tests Report	22	28-Feb-25	21-Mar-25	21-May-24	12-Jun-24	-283	S3T1370, S3T1350	SC31110
Statutory Submission / Inspection (FSD)		**1219**	**12-Jan-21 A**	**23-May-24**	**05-Oct-22**	**12-Jun-24**	**20**		
S3S1000	Prepare & Submit GBP for FSD approval	90	12-Jan-21 A	10-Feb-21 A	05-Oct-22	05-Oct-22			S3S1010
S3S1010	FSD Review & Approval of GBP	180	11-Feb-21 A	11-Jun-21 A	05-Oct-22	05-Oct-22		S3S1000	S3S1150, S3C1100
S3S1020	Submit WWO46 Part I/II to WSD (FS / PD)	0	23-May-23		17-Feb-23		-95	S3D1550, S3D1510	S3C2460, S3C2450
S3S1030	Submit WWO46 Part IV to WSD (FS / PD)	0	21-Aug-23		06-Jan-24		139	S3C2510, S3C2520	S3S1040
S3S1040	WSD Inspection	7	04-Sep-23	10-Sep-23	20-Jan-24	27-Jan-24	139	S3S1030	S3S1060, S3S1050
S3S1050	Issuance of FS Water Certificate	0		24-Sep-23		10-Feb-24	139	S3S1040	S3S1150
S3S1060	Issuance of Form WWO46 Part Va	0		24-Sep-23		14-Apr-24	203	S3S1040	S3S1080, S3S1070
S3S1070	System Flushing / Sampling	45	25-Sep-23	08-Nov-23	14-Apr-24	29-May-24	203	S3S1060	S3S1080
S3S1080	Issuance of Form WWO46 Part Vb	0		08-Nov-23		29-May-24	203	S3S1060, S3S1070	S3S1090
S3S1090	Issuance of Water Certificate	0		22-Nov-23		12-Jun-24	203	S3S1080	SC31110
S3S1100	Submission & Approval of DG Application to FSD	180	29-Apr-22 A	21-Feb-23	16-Oct-23	17-Oct-23	238		S3C2160
S3S1110	Submit Application to FSD for DG Licence	0	01-Aug-23		01-Dec-23		123	S3C2160	S3S1120
S3S1120	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	21	16-Aug-23	05-Sep-23	16-Dec-23	06-Jan-24	123	S3S1110	S3S1130
S3S1130	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	21	06-Sep-23	26-Sep-23	06-Jan-24	27-Jan-24	123	S3S1120	S3S1140
S3S1140	DG Licence issued	0		10-Oct-23		10-Feb-24	123	S3S1130	S3S1150
S3S1150	Prepare & Submit FS/314, FS/501 & FS/501a	14	20-Nov-23	03-Dec-23	10-Feb-24	24-Feb-24	83	S3S1010, S3S1140, S3S1050, S3T1270	S3S1160
S3S1160	FSD Review & Approval of FS/314, FS/501 & FS/501a	21	04-Dec-23	24-Dec-23	24-Feb-24	16-Mar-24	83	S3S1150	S3S1170
S3S1170	F.S. Inspection, Defects Rectification & Re-inspection	60	26-Feb-24	25-Apr-24	16-Mar-24	15-May-24	20	S3S1160, S3C1150, S3T1240, S3T1250, S3T1260, S3T1280	S3S1180
S3S1180	Issuance of Acceptance Letter	28	26-Apr-24	23-May-24	15-May-24	12-Jun-24	20	S3S1170	SC31110
Section 4 - Complete Construction & T&C for UV System No.1 & EP Sta		**932**	**18-Apr-20 A**	**14-Sep-22 A**	**30-Oct-22**	**16-Apr-25**			
Major Plant & Materials Fabrication & Delivery		**725**	**18-Apr-20 A**	**16-Mar-22 A**	**18-Feb-23**	**07-Apr-25**			
S4P1000	Procurement & PO for FRP Cover	409	18-Apr-20 A	31-May-21 A	18-Feb-23	18-Feb-23		PL1010	S4P1090
S4P1010	Procurement & PO for Pipeworks & Associated Valves	90	25-Apr-20 A	15-Jul-20 A	18-Feb-23	18-Feb-23		S1D1000	S4P1130
S4P1020	Procurement & PO for Elec. Materials	365	18-Jul-20 A	22-Jun-21 A	07-Apr-25	07-Apr-25		S1D1130	S4P1140
S4P1030	Procurement & PO for FS System	60	02-Jul-20 A	04-Dec-20 A	07-Apr-25	07-Apr-25		S1D1330	S4P1150
S4P1040	Fabrication of UV Disinfection System	239	18-Jan-21 A	17-Sep-21 A	18-Feb-23	18-Feb-23		S1P1000, KD1000, S1D1210	S4C1080, S4P1050
S4P1050	FAT for UV Disinfection System	71	23-Jul-21 A	17-Sep-21 A	18-Feb-23	18-Feb-23		S4P1040	S4P1060
S4P1060	Delivery of UV Disinfection System	149	01-Jun-21 A	22-Oct-21 A	18-Feb-23	18-Feb-23		S4P1050	S4C1080
S4P1070	Fabrication & Delivery of Lift-up Pumps	225	11-Jan-21 A	26-Jul-21 A	18-Feb-23	18-Feb-23		S1P1010, S1D1290	S4C1040
S4P1080	Fabrication & Delivery of Transfer Pumps	218	26-Feb-21 A	26-Jul-21 A	18-Feb-23	18-Feb-23		S1P1020, S1D1290	S5UVPC1000
S4P1090	Fabrication & Delivery of FRP Cover	89	01-Nov-21 A	16-Mar-22 A	18-Feb-23	18-Feb-23		S1D1290, S4P1000, S1P1020, PL1010	S4T1010
S4P1100	Fabrication & Delivery of EOT Cranes (2T & 5T)	170	28-Jan-21 A	27-May-21 A	18-Feb-23	18-Feb-23		S1P1030, S1D1290	S4C1020



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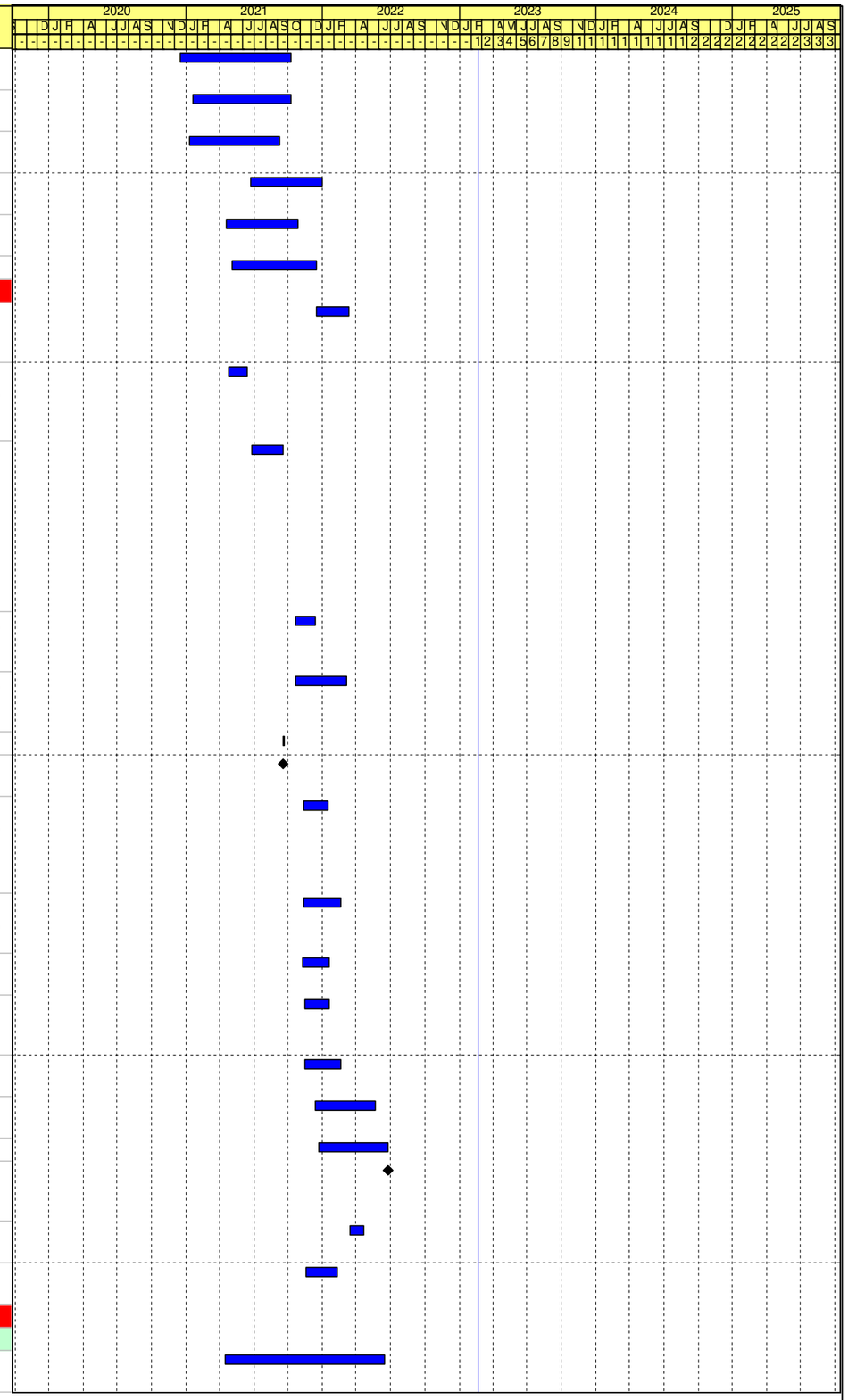
S4P1110	Fabrication & Delivery of Stoplogs	289	16-Dec-20 A	07-Oct-21 A	18-Feb-23	18-Feb-23		S1P1040, S1D1290	S4C1070
S4P1120	Fabrication & Delivery of Penstocks	256	18-Jan-21 A	07-Oct-21 A	18-Feb-23	18-Feb-23		S1P1050, S1D1290	S4C1070
S4P1130	Fabrication & Delivery of Pipeworks & Associated Valves	200	11-Jan-21 A	08-Sep-21 A	18-Feb-23	18-Feb-23		S4P1010, S1D1290	S4C1040
S4P1140	Fabrication & Delivery of Elec. Materials	190	24-Jun-21 A	31-Dec-21 A	07-Apr-25	07-Apr-25		S4P1020, S1D1330	S4C1120
S4P1150	Fabrication & Delivery of FS System	187	18-Apr-21 A	28-Oct-21 A	07-Apr-25	07-Apr-25		S4P1030, S1D1330	S4C1100
S4P1160	Fabrication & Delivery of Temp. Switchboard	194	05-May-21 A	15-Dec-21 A	18-Feb-23	18-Feb-23			S4C1000
E&M Installation		449	25-Apr-21 A	23-Jun-22 A	30-Oct-22	07-Apr-25			
S4C1000	Provision of Temporary Power for UV System No.1 & Effluent Transfer Pumping Station	45	15-Dec-21 A	11-Mar-22 A	18-Feb-23	18-Feb-23		S4C1010, S1D1130, S4P1160	S4T1010, S4C1140
S4C1010	Mobilisation (Partial Access on 24 Apr 2021, Remaining Access on 12 May 2021)	30	25-Apr-21 A	12-Jun-21 A	30-Oct-22	30-Oct-22		AD1010, S1D1130, AD1020	S4C1020, S5TXRC1030, S4C1090, S4C1000
S4C1020	E&M Installation of EOT Cranes (2T)	46	25-Jun-21 A	17-Sep-21 A	18-Feb-23	18-Feb-23		S1D1180, S1D1260, S4C1010, S4P1100	S4T1010, S4C1030, S4C1040, S4C1110, S4C1090, S4T1000, S4C1080, S4C1070, PL1200
S4C1030	E&M Installation of EOT Cranes (5T)	60	20-Oct-21 A	11-Dec-21 A	18-Feb-23	18-Feb-23		S4C1020	S5UVPC1000, S4T1000, PL1200
S4C1040	E&M Installation of Transfer Pumps & Associated Pipeworks / Valves	103	21-Oct-21 A	05-Mar-22 A	18-Feb-23	18-Feb-23		S4C1020, S4P1070, S4P1130	S5TXRC1050, S4T1010, PL1200
S4C1050	Preperation Works for E&M Installation of Penstocks & Stoplogs	3	17-Sep-21 A	19-Sep-21 A	18-Feb-23	18-Feb-23			S4C1070
S4C1060	CNE-014 Access to and use to Portion C-1A for Installation of EOT, UV Equipment and Effluent Transfer Pump	0	16-Sep-21 A		18-Feb-23				S4C1070
S4C1070	E&M Installation of Penstocks & Stoplogs (Impacted by CNE-014)	66	11-Nov-21 A	15-Jan-22 A	18-Feb-23	18-Feb-23		S4P1110, S4P1120, S4C1020, S4C1050, S4C1060	S4T1010, S5TXRC1050, PL1200
S4C1080	E&M Installation of UV System	44	11-Nov-21 A	19-Feb-22 A	18-Feb-23	18-Feb-23		S4P1040, S4P1060, S4C1020	S4T1010, S5TXRC1050, PL1200
S4C1090	FS Installation - Conduits, Trunking, & Pipeworks	74	08-Nov-21 A	18-Jan-22 A	07-Apr-25	07-Apr-25		S4C1010, S4C1020	S4C1100, PL1200
S4C1100	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	67	15-Nov-21 A	18-Jan-22 A	07-Apr-25	07-Apr-25		S4P1150, S4C1090	SC41110, S4S1010, PL1200
S4C1110	BS Fitting Installation - Conduits, Trunking, & Ductworks	111	15-Nov-21 A	19-Feb-22 A	07-Apr-25	07-Apr-25		S4C1020, S1D1310	S4C1120, PL1200
S4C1120	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	139	13-Dec-21 A	21-May-22 A	07-Apr-25	07-Apr-25		S4C1110, S4P1140	S4C1150, PL1200
S4C1130	Excavation Works & Cable Laying - by CLP (Impacted by CNE-035)	184	22-Dec-21 A	23-Jun-22 A	18-Feb-23	18-Feb-23			S4C1140
S4C1140	Ready for Power Energization	0		23-Jun-22 A		18-Feb-23		S4C1000, S4C1130, S4S1000	S4S1030, S4T1010
S4C1150	Installation of CCTV System	37	14-Mar-22 A	19-Apr-22 A	07-Apr-25	07-Apr-25		S4C1120	SC41110, PL1200
S4C1160	Installation of FS Link	84	17-Nov-21 A	08-Feb-22 A	07-Apr-25	07-Apr-25			S4S1010, PL1200
Statutory Submission / Inspection		511	17-Apr-21 A	02-Aug-22 A	18-Feb-23	16-Apr-25			
CLP Submission		425	17-Apr-21 A	15-Jun-22 A	18-Feb-23	18-Feb-23			
S4S1000	Submission & Approval of Electrical Schematic Wiring Diagram to CLP (Temp. Power)	425	17-Apr-21 A	15-Jun-22 A	18-Feb-23	18-Feb-23			S4C1140



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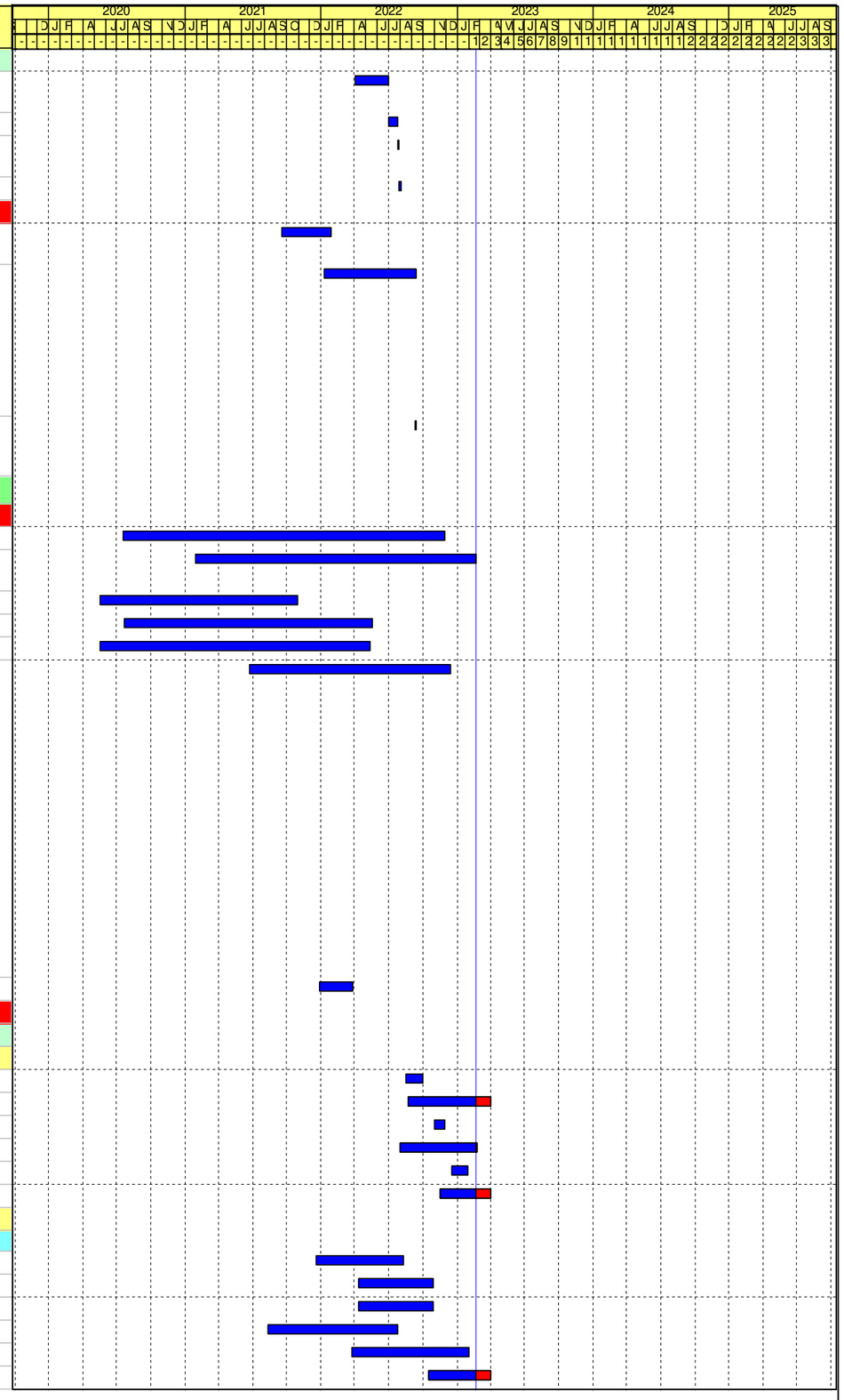
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
FSD Submission & Inspection		176	01-Apr-22 A	02-Aug-22 A	16-Apr-25	16-Apr-25			
S4S1010	Prepare & Submit FS/314, FS/501 & FS/501a	91	01-Apr-22 A	30-Jun-22 A	16-Apr-25	16-Apr-25		S4C1100, S4C1160	S4S1020
S4S1020	FSD Review & Approval of FS/314, FS/501 & FS/501a	25	01-Jul-22 A	25-Jul-22 A	16-Apr-25	16-Apr-25		S4S1010	S4S1030
S4S1030	F.S. Inspection, Defects Rectification & Re-inspection	4	26-Jul-22 A	29-Jul-22 A	16-Apr-25	16-Apr-25		S4S1020, S4C1140	S4S1040
S4S1040	Issuance of Acceptance Letter	14	30-Jul-22 A	02-Aug-22 A	16-Apr-25	16-Apr-25		S4S1030	SC41110
Testing & Commissioning		329	18-Sep-21 A	14-Sep-22 A	18-Feb-23	18-Feb-23			
S4T1000	T&C and R.P.E inspection for EOT Cranes	133	18-Sep-21 A	28-Jan-22 A	18-Feb-23	18-Feb-23		S4C1020, S4C1030	S4T1010
S4T1010	SAT for UV System No. 1 & Effluent Transfer Pumping Station No. 1 (Impacted by CNE-035)	217	10-Jan-22 A	14-Sep-22 A	18-Feb-23	18-Feb-23		S4C1020, S4C1070, S4C1080, S4C1000, S4T1000, S4C1040, S4P1090, S4C1140	S4T1020
S4T1020	System Commissioning Tests	3	11-Sep-22 A	14-Sep-22 A	18-Feb-23	18-Feb-23		S4T1010	SC41110, PL1290, S5UVPC1000
Section 5 - Complete all remaining Works (incl. T&C)		1769	18-May-20 A	21-Mar-25	09-Jun-22	16-Apr-25	26		
Fabrication, FAT & Delivery of Major Plant & Materials		802	18-May-20 A	21-Feb-23	02-Aug-22	16-Apr-25	785		
S5P1000	Procurement & PO for Biogas Booster and Transfer Pumps	735	17-Jul-20 A	30-Nov-22 A	07-Mar-23	07-Mar-23		S2P1000	S5BIOP1000
S5P1010	Procurement & PO for Pipeworks & Associated Valves	539	29-Jan-21 A	21-Feb-23	02-Aug-22	02-Aug-22	-203	S2D1070	S5CHPP1070, S5DIGP1020
S5P1020	Procurement & PO for Lifting Appliances	530	18-May-20 A	29-Oct-21 A	16-Apr-25	16-Apr-25		S2P1020	
S5P1030	Procurement & PO for Ferric Chloride Storage Tank	668	20-Jul-20 A	18-May-22 A	18-Oct-22	18-Oct-22		S2P1000	S5FCDP1000
S5P1040	Procurement & PO for Ferric Chloride Dosing Pump	726	18-May-20 A	13-May-22 A	15-Feb-23	15-Feb-23		S2P1020	S5FCDP1010
S5P1050	Procurement & PO for Electrical Sub-contractor	396	21-Jun-21 A	14-Dec-22 A	21-Sep-22	21-Sep-22		PL1010, S2P1130, S2D1370, S2D1570, S2D1270, S2D1310, S2D1430, S2D1470, S2D1510, S2D1630, S2D1670	S5SDBC1170, S5SDBC1310, S5SDBC1540, S5CHPC1100, S5CHPC1230, S5CHPC1290, S5TXRC1030, S5TXRC1040, S5DIGC1120, S5DIGC1160, S5DIGC1200, S5DIGC1260, S5EXAC1030, S5EXAC1080, S5EXAC1100, S5EXAC1110, S5EXAC1070
S5P1070	Procurement & PO for mechanical ventilation system	90	28-Dec-21 A	28-Mar-22 A	16-Apr-25	16-Apr-25			
Sludge Dewatering Building		1255	11-Aug-21 A	06-Jan-24	12-Jul-22	16-Mar-24	70		
Procurement, Fabrication, FAT & Delivery of Major Plant & Materials		1152	11-Aug-21 A	13-Sep-23	12-Jul-22	19-Sep-23	5		
Procurement		949	31-Jul-22 A	31-Mar-23	23-Jul-22	02-Feb-23	-57		
S5SDBP1000	Procurement & PO for DI pipework (B/F)	45	17-Aug-22 A	30-Sep-22 A	29-Jul-22	29-Jul-22			S5SDBP1630
S5SDBP1010	Procurement & PO for DI pipework (G/F and 1/F)	160	24-Aug-22 A	31-Mar-23	13-Aug-22	20-Sep-22	-192		S5SDBP1640
S5SDBP1020	Procurement & PO for FRP ductworks	45	31-Oct-22 A	30-Nov-22 A	26-Jan-23	26-Jan-23			S5SDBP1650
S5SDBP1030	Procurement & PO for Genset	174	31-Jul-22 A	22-Feb-23	23-Jul-22	24-Jul-22	-213		S5SDBP1670
S5SDBP1040	Procurement & PO for Process Water Pumps	45	17-Dec-22 A	30-Jan-23 A	06-Aug-22	06-Aug-22			S5SDBP1210
S5SDBP1050	Procurement & PO for Sludge Skip (PS Screen & Dewatering Screen)	75	18-Nov-22 A	31-Mar-23	26-Dec-22	02-Feb-23	-57		S5SDBP1230
Mechanical		642	11-Aug-21 A	13-Aug-23	12-Jul-22	19-Sep-23	36		
Fabrication and FAT		606	11-Aug-21 A	16-Jun-23	12-Jul-22	19-Sep-23	94		
S5SDBP1060	Fabrication & Delivery of Lift	210	18-Dec-21 A	10-Aug-22 A	19-Sep-23	19-Sep-23			S5SDBC1780
S5SDBP1070	Fabrication & FAT of External Sludge Transfer Pump	201	11-Apr-22 A	28-Oct-22 A	21-Oct-22	21-Oct-22			S5SDBP1400
S5SDBP1080	Fabrication & FAT of PS Screen Feed Pump	201	11-Apr-22 A	28-Oct-22 A	04-Feb-23	04-Feb-23			S5SDBP1490
S5SDBP1090	Fabrication & FAT of Sludge Screen	350	11-Aug-21 A	26-Jul-22 A	23-Feb-23	23-Feb-23			S5SDBP1520
S5SDBP1100	Fabrication and FAT of Centrate Transfer Pumps	313	25-Mar-22 A	31-Jan-23 A	12-Jul-22	12-Jul-22			S5SDBP1360
S5SDBP1110	Fabrication and FAT of Conveyor	135	17-Oct-22 A	31-Mar-23	26-Dec-22	02-Feb-23	-57		S5SDBP1370



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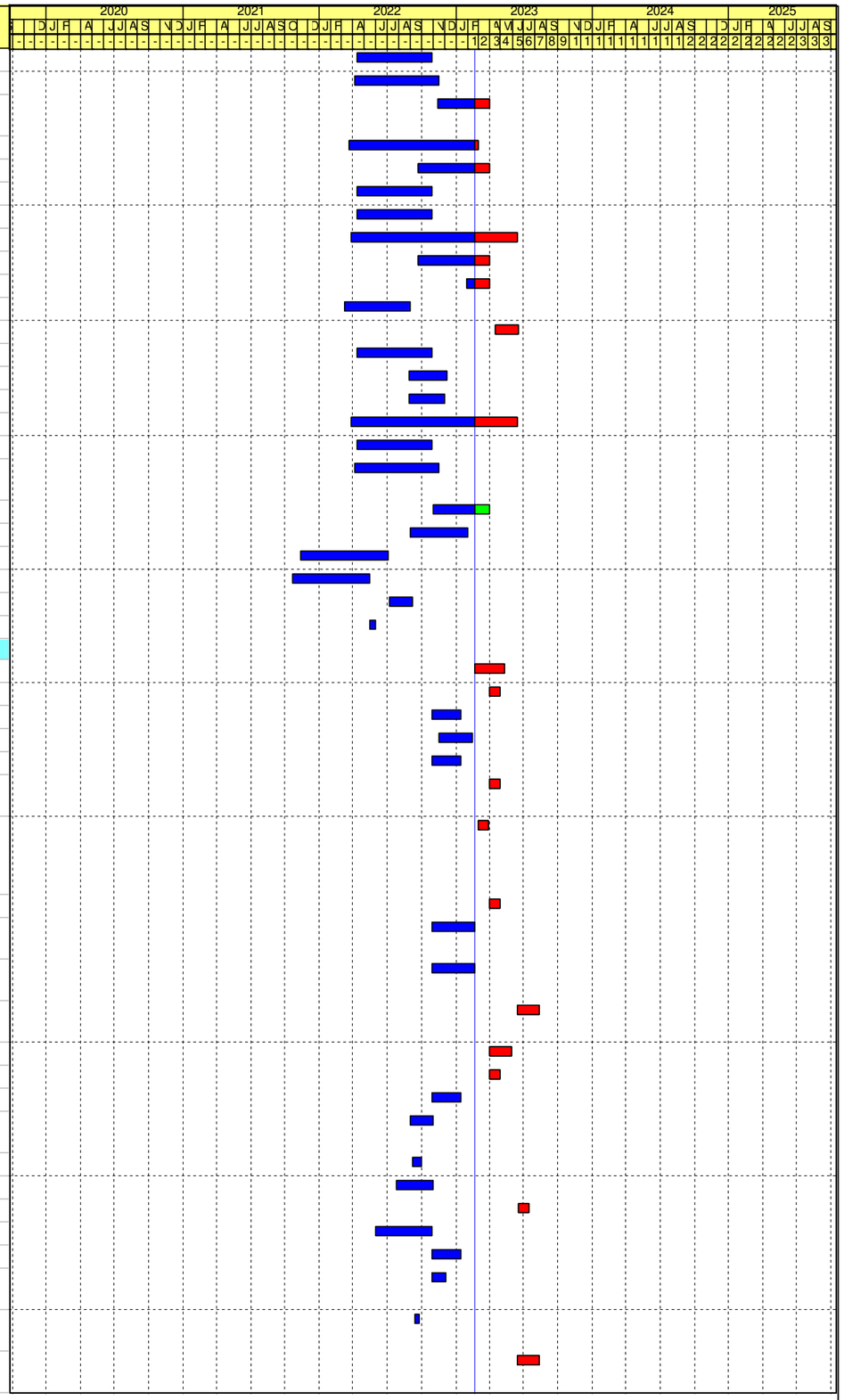
S5SDBP1120	Fabrication and FAT of Dewatering Centrifuge Feed Pumps	201	11-Apr-22 A	28-Oct-22 A	07-Oct-22	07-Oct-22			S5SDBP1380
S5SDBP1130	Fabrication and FAT of Dewatering Polymer Powder Unit	226	06-Apr-22 A	17-Nov-22 A	09-Aug-22	09-Aug-22		S5SDBP1290	S5SDBP1390
S5SDBP1140	Fabrication and FAT of FRP Tank (Thickening & Dewatering Polymer Dosing System)	138	14-Nov-22 A	31-Mar-23	17-Oct-22	24-Nov-22	-127		S5SDBP1410
S5SDBP1150	Fabrication and FAT of Hoist	197	21-Mar-22 A	28-Feb-23	29-Sep-22	06-Oct-22	-145		S5SDBP1420
S5SDBP1160	Fabrication and FAT of Mixers (Digested Sludge Holding Tank)	90	22-Sep-22 A	31-Mar-23	15-Jan-23	22-Feb-23	-37		S5SDBP1430
S5SDBP1170	Fabrication and FAT of Polymer Dosing Pumps	201	11-Apr-22 A	28-Oct-22 A	21-Mar-23	21-Mar-23			S5SDBP1440
S5SDBP1180	Fabrication and FAT of Polymer Transfer Pumps	201	11-Apr-22 A	28-Oct-22 A	30-Sep-22	30-Sep-22			S5SDBP1450
S5SDBP1190	Fabrication and FAT of Preparation Tank Mixers	310	28-Mar-22 A	14-Jun-23	12-Sep-22	03-Jan-23	-162		S5SDBP1460
S5SDBP1200	Fabrication and FAT of Primary Sludge Holding Tank Mixer	191	22-Sep-22 A	31-Mar-23	16-Dec-22	23-Jan-23	-67		S5SDBP1470
S5SDBP1210	Fabrication and FAT of Process Water Pumps	60	31-Jan-23 A	31-Mar-23	06-Aug-22	13-Sep-22	-199	S5SDBP1040	S5SDBP1480
S5SDBP1220	Fabrication and FAT of Recirculation Pumps	175	10-Mar-22 A	31-Aug-22 A	30-Sep-22	30-Sep-22			S5SDBP1500
S5SDBP1230	Fabrication and FAT of Sludge Skip (PS Screen & Dewatering Screen)	61	17-Apr-23*	16-Jun-23	03-Feb-23	04-Apr-23	-73	S5SDBP1050	S5SDBP1530
S5SDBP1240	Fabrication and FAT of Sludge Transfer Pumps (THP By Pass)	201	11-Apr-22 A	28-Oct-22 A	30-Sep-22	30-Sep-22			S5SDBP1550
S5SDBP1250	Fabrication and FAT of Steel Work (EOT)	60	29-Aug-22 A	09-Dec-22 A	04-Nov-22	04-Nov-22			S5SDBP1560
S5SDBP1260	Fabrication and FAT of Steel Work (Monorails)	60	29-Aug-22 A	03-Dec-22 A	15-Jan-23	15-Jan-23			S5SDBP1570
S5SDBP1270	Fabrication and FAT of Storage Tank Mixers	310	28-Mar-22 A	14-Jun-23	12-Sep-22	03-Jan-23	-162		S5SDBP1580
S5SDBP1280	Fabrication and FAT of Thickening Centrifuge Feed Pump	201	11-Apr-22 A	28-Oct-22 A	07-Oct-22	07-Oct-22			S5SDBP1590
S5SDBP1290	Fabrication and FAT of Thickening Polymer Powder Unit	226	06-Apr-22 A	17-Nov-22 A	09-Aug-22	09-Aug-22			S5SDBP1600, S5SDBP1130
S5SDBP1300	Fabrication and FAT of Thickening Sludge Silo	98	01-Nov-22 A	31-Mar-23	12-Mar-23	19-Apr-23	19		S5SDBP1610
S5SDBP1310	Fabrication and FAT of THP Feed Pump	100	31-Aug-22 A	31-Jan-23 A	12-Jan-23	12-Jan-23			S5SDBP1620
S5SDBP1320	Fabrication of Sludge Dewatering Centrifuges	238	10-Nov-21 A	05-Jul-22 A	04-Jan-23	04-Jan-23			S5SDBP1340
S5SDBP1330	Fabrication of Sludge Thickening Centrifuges	206	22-Oct-21 A	15-May-22 A	05-Dec-22	05-Dec-22			S5SDBP1350
S5SDBP1340	FAT of Sludge Dewatering Centrifuges	62	06-Jul-22 A	05-Sep-22 A	04-Jan-23	04-Jan-23		S5SDBP1320	S5SDBP1510
S5SDBP1350	FAT of Sludge Thickening Centrifuges	16	16-May-22 A	31-May-22 A	05-Dec-22	05-Dec-22		S5SDBP1330	S5SDBP1540
Delivery		327	01-Jun-22 A	13-Aug-23	12-Jul-22	04-May-23	-101		
S5SDBP1360	Delivery of Centrate Transfer Pumps	80	21-Feb-23	11-May-23	12-Jul-22	29-Sep-22	-224	S5SDBP1100	S5SDBC1030
S5SDBP1370	Delivery of Conveyor	30	01-Apr-23	30-Apr-23	03-Feb-23	04-Mar-23	-57	S5SDBP1110	S5SDBC1260
S5SDBP1380	Delivery of Dewatering Centrifuges Feed Pumps	78	29-Oct-22 A	14-Jan-23 A	07-Oct-22	07-Oct-22		S5SDBP1120	S5SDBC1040
S5SDBP1390	Delivery of Dewatering Polymer Powder Unit	30	18-Nov-22 A	15-Feb-23 A	09-Aug-22	09-Aug-22		S5SDBP1130	S5SDBC1050
S5SDBP1400	Delivery of External Sludge Transfer Pump	78	29-Oct-22 A	14-Jan-23 A	21-Oct-22	21-Oct-22		S5SDBP1070	S5SDBC1070
S5SDBP1410	Delivery of FRP Tank (Thickening & Dewatering Polymer Dosing System)	30	01-Apr-23	30-Apr-23	25-Nov-22	24-Dec-22	-127	S5SDBP1140	S5SDBC1480, S5SDBC1060
S5SDBP1420	Delivery of Hoist	28	01-Mar-23	28-Mar-23	07-Oct-22	03-Nov-22	-145	S5SDBP1150	S5SDBC1230, S5SDBC1450, S5SDBC1400, S5SDBC1390
S5SDBP1430	Delivery of Mixers (Digested Sludge Holding Tank)	30	01-Apr-23	30-Apr-23	23-Feb-23	24-Mar-23	-37	S5SDBP1160	S5SDBC1420
S5SDBP1440	Delivery of Polymer Dosing Pumps	78	29-Oct-22 A	20-Feb-23 A	21-Mar-23	21-Mar-23		S5SDBP1170	S5SDBC1500, S5SDBC1520
S5SDBP1450	Delivery of Polymer Transfer Pumps	138	29-Oct-22 A	20-Feb-23 A	30-Sep-22	30-Sep-22		S5SDBP1180	S5SDBC1130, S5SDBC1280
S5SDBP1460	Delivery of Preparation Tank Mixers	60	15-Jun-23	13-Aug-23	04-Jan-23	04-Mar-23	-162	S5SDBP1190	S5SDBC1430, S5SDBC1090
S5SDBP1470	Delivery of Primay Sludge Holding Tank Mixer	60	01-Apr-23	30-May-23	24-Jan-23	24-Mar-23	-67	S5SDBP1200	S5SDBC1440
S5SDBP1480	Delivery of Process Water Pumps	30	01-Apr-23	30-Apr-23	14-Sep-22	13-Oct-22	-199	S5SDBP1210	S5SDBC1110
S5SDBP1490	Delivery of PS Screen Feed Pump	78	29-Oct-22 A	14-Jan-23 A	04-Feb-23	04-Feb-23		S5SDBP1080	S5SDBC1250
S5SDBP1500	Delivery of Recirculation Pumps	60	01-Sep-22 A	31-Oct-22 A	30-Sep-22	30-Sep-22		S5SDBP1220	S5SDBC1120, S5SDBC1150
S5SDBP1510	Delivery of Sludge Dewatering Centrifuges	24	07-Sep-22 A	30-Sep-22 A	04-Jan-23	04-Jan-23		S5SDBP1340	S5SDBC1490
S5SDBP1520	Delivery of Sludge Screen Press	76	27-Jul-22 A	31-Oct-22 A	23-Feb-23	23-Feb-23		S5SDBP1090	S5SDBC1470
S5SDBP1530	Delivery of Sludge Skip (PS Screen & Dewatering Screen)	30	17-Jun-23	16-Jul-23	05-Apr-23	04-May-23	-73	S5SDBP1230	S5SDBC1300
S5SDBP1540	Delivery of Sludge Thickening Centrifuges	143	01-Jun-22 A	28-Oct-22 A	05-Dec-22	05-Dec-22		S5SDBP1350	S5SDBC1510
S5SDBP1550	Delivery of Sludge Transfer Pumps (THP By Pass)	78	29-Oct-22 A	14-Jan-23 A	30-Sep-22	30-Sep-22		S5SDBP1240	S5SDBC1150
S5SDBP1560	Delivery of Steel Work (EOT)	40	28-Oct-22 A	06-Dec-22 A	04-Nov-22	04-Nov-22		S5SDBP1250	S5SDBC1400, S5SDBC1390
S5SDBP1570	Delivery of Steel Work (Monorails)	14	12-Sep-22 A	25-Sep-22 A	15-Jan-23	15-Jan-23		S5SDBP1260	S5SDBC1230, S5SDBC1450
S5SDBP1580	Delivery of Storage Tank Mixers	60	15-Jun-23	13-Aug-23	04-Jan-23	04-Mar-23	-162	S5SDBP1270	S5SDBC1430, S5SDBC1090



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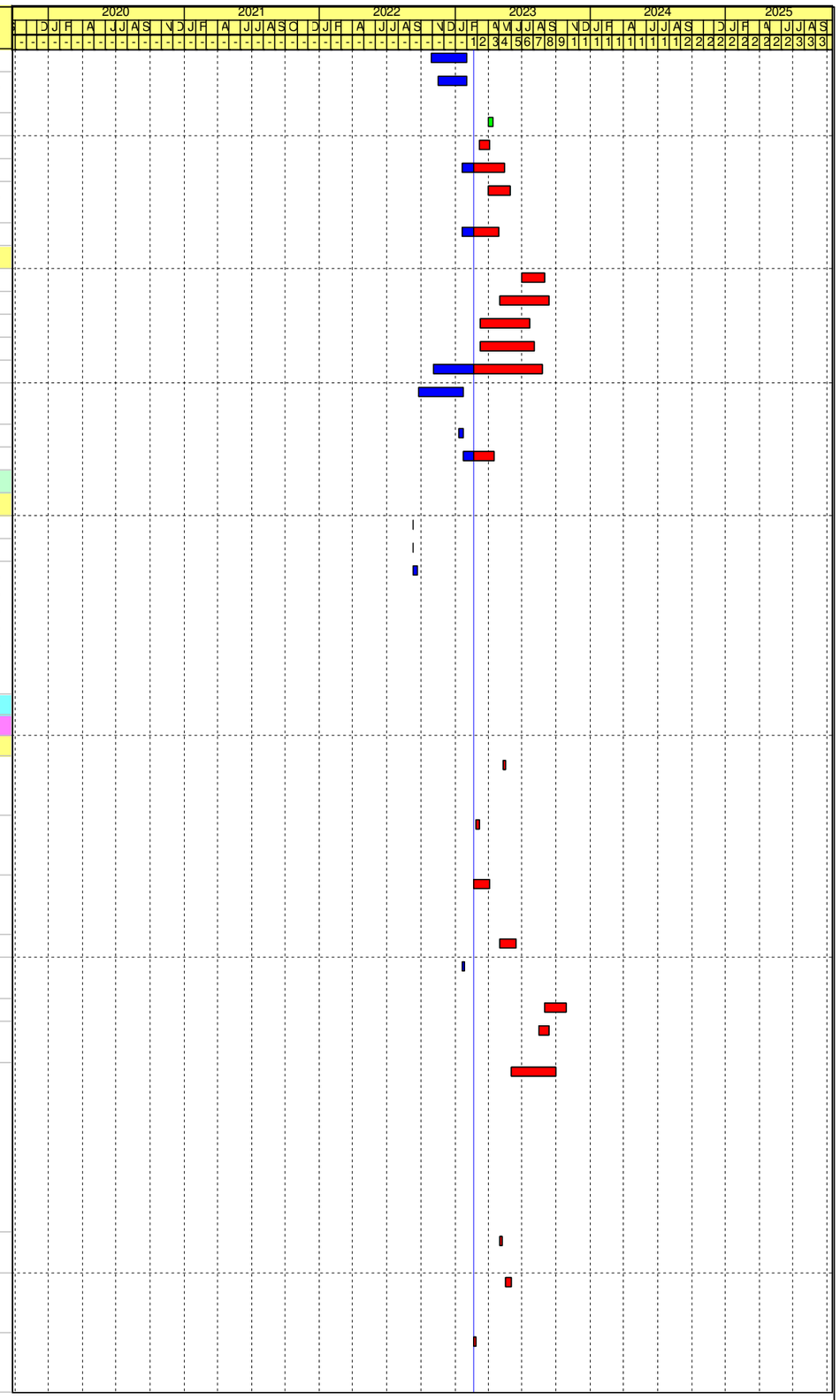
S5SDBP1590	Delivery of Thickening Centrifuges Feed Pump	95	29-Oct-22 A	31-Jan-23 A	07-Oct-22	07-Oct-22		S5SDBP1280	S5SDBC1140
S5SDBP1600	Delivery of Thickening Polymer Powder Unit	75	18-Nov-22 A	31-Jan-23 A	09-Aug-22	09-Aug-22		S5SDBP1290	S5SDBC1270, S5SDBC1050
S5SDBP1610	Delivery of Thickening Sludge Silo	14	01-Apr-23	14-Apr-23	20-Apr-23	03-May-23	19	S5SDBP1300	S5SDBC1260
S5SDBP1620	Delivery of THP Feed Pump	30	07-Mar-23*	05-Apr-23	12-Jan-23	10-Feb-23	-54	S5SDBP1310	S5SDBC1290
S5SDBP1630	Fabrication and delivery of DI pipework (B/F)	84	21-Jan-23 A	15-May-23	29-Jul-22	20-Oct-22	-207	S5SDBP1000	S5SDBC1100
S5SDBP1640	Fabrication and delivery of DI pipework (G/F and 1/F)	60	01-Apr-23	30-May-23	21-Sep-22	19-Nov-22	-192	S5SDBP1010	S5SDBC1240, S5SDBC1460
S5SDBP1650	Fabrication and delivery of FRP ductworks	60	21-Jan-23 A	29-Apr-23	26-Jan-23	03-Apr-23	-26	S5SDBP1020	S5SDBC1210
Electrical and Control		279	26-Sep-22 A	13-Sep-23	21-Jul-22	27-Feb-23	-198		
S5SDBP1660	Fabrication & Delivery of Cable	62	01-Jul-23*	31-Aug-23	13-Nov-22	13-Jan-23	-230		S5SDBC1350
S5SDBP1670	Fabrication & Delivery of Genset	134	03-May-23*	13-Sep-23	25-Jul-22	05-Dec-22	-282	S5SDBP1030	S5SDBC1770
S5SDBP1680	Fabrication & Delivery of LV Switchboard for G/F	133	11-Mar-23*	21-Jul-23	04-Aug-22	14-Dec-22	-219		S5SDBC1370
S5SDBP1690	Fabrication & Delivery of LV Switchboard for 1/F	147	11-Mar-23*	04-Aug-23	21-Jul-22	14-Dec-22	-233		S5SDBC1580
S5SDBP1710	Fabrication & Delivery of SCADA System for 1/F	279	04-Nov-22 A	23-Aug-23	28-Aug-22	27-Feb-23	-177		S5SDBC1570
S5SDBP1720	Fabrication of 380V Transfomers	120	26-Sep-22 A	23-Jan-23 A	06-Oct-22	06-Oct-22			S5SDBP1730
S5SDBP1730	FAT for 380V Transfomers	14	10-Jan-23 A	23-Jan-23 A	06-Oct-22	06-Oct-22		S5SDBP1720	S5SDBP1740
S5SDBP1740	Delivery of 380V Transfomers	66	24-Jan-23 A	17-Apr-23	06-Oct-22	30-Nov-22	-138	S5SDBP1730	S5SDBC1380
Installation		499	06-Jun-22 A	12-Dec-23	09-Aug-22	19-Jan-24	38		
NCE-PMI-0325 - Provision of 2 nos of 3 Tons Mobile A-frame with Electrical Hoist in SDB		499	06-Jun-22 A	12-Dec-23	09-Aug-22	19-Jan-24	38		
S5SDBC1000	Access to Sludge Dewatering Building (Impacted by EWN-0314)	1	09-Sep-22 A	09-Sep-22 A	09-Aug-22	09-Aug-22			S5SDBC1020
S5SDBC1010	Access to Sludge Dewatering Building (Impacted by EWN-0314-1)	1	09-Sep-22 A	09-Sep-22 A	09-Aug-22	09-Aug-22			S5SDBC1020
S5SDBC1020	Mobilisation	15	09-Sep-22 A	23-Sep-22 A	09-Aug-22	09-Aug-22		S5SDBC1000, S5SDBC1010	S5SDBC1200, S5SDBC1680, S5SDBC1370, S5SDBC1590, S5SDBC1770, S5SDBC1120, S5SDBC1050
E&M Installation		459	06-Jun-22 A	02-Nov-23	09-Aug-22	17-Nov-23	15		
Basement		251	21-Jan-23 A	29-Oct-23	09-Aug-22	17-Nov-23	19		
Mechanical		251	21-Jan-23 A	29-Oct-23	09-Aug-22	03-Apr-23	-209		
S5SDBC1030	Installation of Centrate Transfer Pumps (3 nos.)	7	12-May-23	18-May-23	30-Sep-22	06-Oct-22	-224	S5SDBP1360	S5SDBC1100, S5SDBT1000, S5SDBC1120
S5SDBC1040	Installation of Dewatering Centrifuges Feed Pumps (3 nos.)	7	28-Feb-23	06-Mar-23	07-Oct-22	13-Oct-22	-144	S5SDBP1380, S5SDBC1140	S5SDBT1000, S5SDBC1100, S5SDBC1110
S5SDBC1050	Installation of Dewatering Polymer Powder Feed Units	43	21-Feb-23	04-Apr-23	09-Aug-22	20-Sep-22	-196	S5SDBP1390, S5SDBP1600, S5SDBC1020	S5SDBC1170, S5SDBT1080, S5SDBC1420
S5SDBC1060	Installation of Dewatering Polymer Preparation Tanks	45	01-May-23	14-Jun-23	25-Dec-22	07-Feb-23	-127	S5SDBP1410	S5SDBC1480
S5SDBC1070	Installation of External Sludge Transfer Pumps (2 nos.)	7	21-Jan-23 A	27-Jan-23 A	21-Oct-22	21-Oct-22		S5SDBP1400	S5SDBT1000, S5SDBC1100
S5SDBC1080	Installation of Instruments	60	31-Aug-23	29-Oct-23	19-Jan-23	19-Mar-23	-224	S5SDBC1100	S5SDBT1160
S5SDBC1090	Installation of Polymer Mixer	30	14-Aug-23	12-Sep-23	05-Mar-23	03-Apr-23	-162	S5SDBP1580, S5SDBP1460	S5SDBT1170
S5SDBC1100	Installation of Process Pipe	120	02-Jun-23	29-Sep-23	21-Oct-22	17-Feb-23	-224	S5SDBC1120, S5SDBC1030, S5SDBC1070, S5SDBC1130, S5SDBC1150, S5SDBC1140, S5SDBC1040, S5SDBC1110, S5SDBP1630	S5SDBT1040, S5SDBC1080
S5SDBC1110	Installation of Process Water Pumps (3 nos.)	7	01-May-23	07-May-23	14-Oct-22	20-Oct-22	-199	S5SDBP1480, S5SDBC1040	S5SDBT1000, S5SDBC1100
S5SDBC1120	Installation of Recirculation Pumps for Centrate Tank, Sludge Blend Tanks & THP by-pass Sludge Holding Tank (6 nos,)	14	19-May-23	01-Jun-23	07-Oct-22	20-Oct-22	-224	S5SDBP1500, S5SDBC1020, S5SDBC1030	S5SDBT1000, S5SDBC1100
S5SDBC1130	Installation of Sludge Dewatering Polymer Transfer Pumps (2 nos.)	7	21-Feb-23	27-Feb-23	30-Sep-22	06-Oct-22	-144	S5SDBP1450	S5SDBT1000, S5SDBC1100, S5SDBC1150



Remaining Work
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Contract No. DE/2018/03
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities
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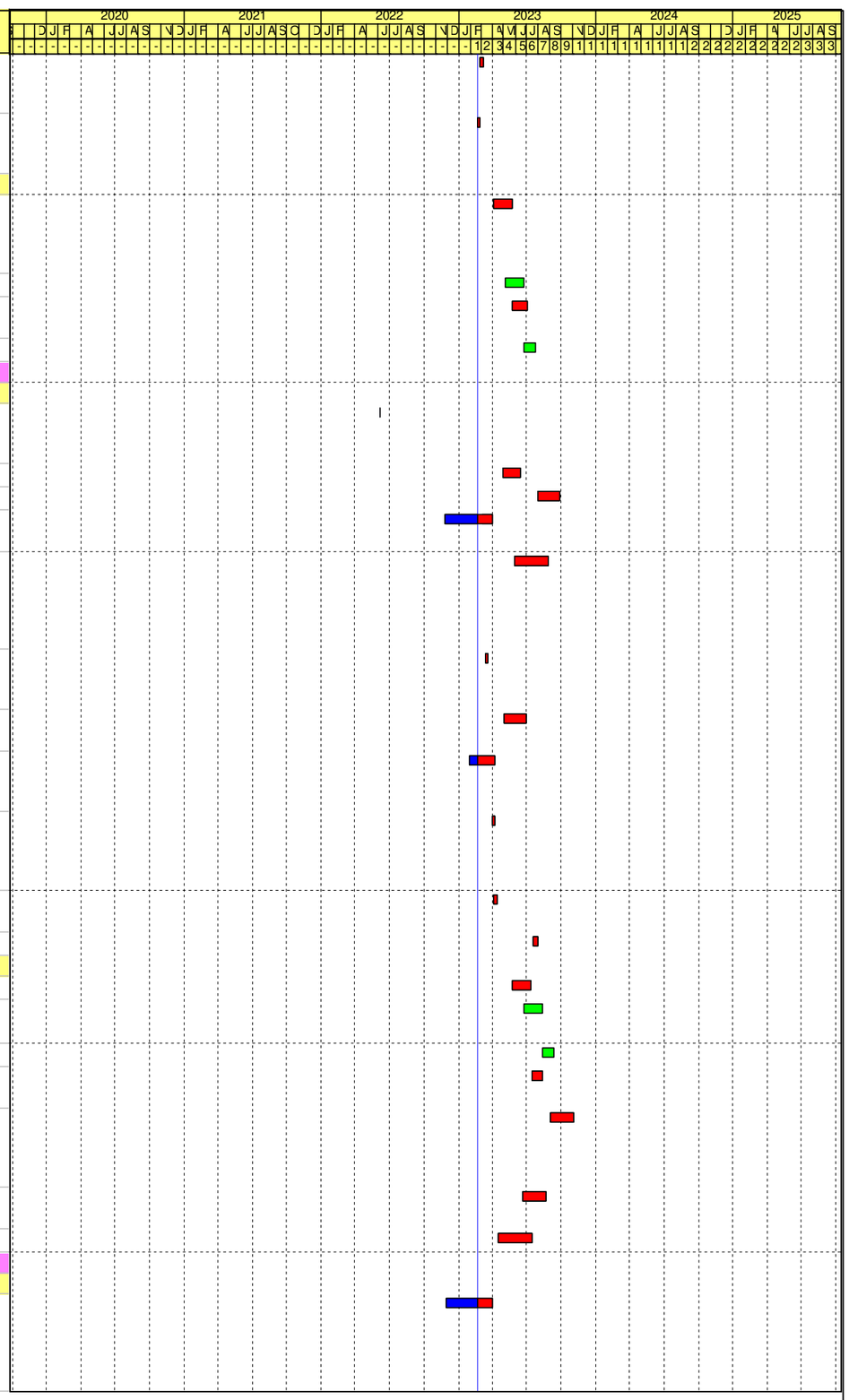
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5SDBC1140	Installation of Thickening Centrifuges Feed Pumps (4 nos.)	7	28-Feb-23	06-Mar-23	07-Oct-22	13-Oct-22	-144	S5SDBP1590, S5SDBC1150	S5SDBT1000, S5SDBC1100, S5SDBC1040
S5SDBC1150	Installation of THP by-pass Sludge Holding Tank Transfer Pumps (4 nos.)	7	21-Feb-23	27-Feb-23	30-Sep-22	06-Oct-22	-144	S5SDBP1550, S5SDBP1500, S5SDBC1130	S5SDBT1000, S5SDBC1100, S5SDBC1140
Electrical		110	05-Apr-23	23-Jul-23	21-Sep-22	17-Nov-23	117		
S5SDBC1170	Installation of Electrical System - Cable Containment	50	05-Apr-23	24-May-23	21-Sep-22	09-Nov-22	-196	S5SDBC1050, S5SDBC1590, S5P1050	S5SDBC1180, S5SDBC1185, S5SDBC1310, S5SDBT1200
S5SDBC1180	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	50	05-May-23	23-Jun-23	30-Aug-23	18-Oct-23	117	S5SDBC1170	S5SDBC1190
S5SDBC1185	Installation of Control Cable Laying	40	25-May-23	03-Jul-23	20-Dec-22	28-Jan-23	-156	S5SDBC1170	S5SDBC1530, S5SDBT1200
S5SDBC1190	Installation of Electrical System - Lighting and Small Power Accessories	30	24-Jun-23	23-Jul-23	19-Oct-23	17-Nov-23	117	S5SDBC1180	S5SDBT1130
Ground Floor		459	06-Jun-22 A	02-Nov-23	04-Nov-22	17-Nov-23	15		
Mechanical		423	06-Jun-22 A	27-Sep-23	04-Nov-22	18-May-23	-132		
S5SDBC1200	Installation of A-Frame (Effected by NCE-PMI-0325)	3	06-Jun-22 A	06-Jun-22 A	04-Nov-22	04-Nov-22		S5SDBC1020	S5SDBC1480, S5SDBC1470, S5SDBC1400
S5SDBC1210	Installation of DOU Ductworks	45	30-Apr-23	13-Jun-23	04-Apr-23	18-May-23	-26	S5SDBP1650	S5T1060
S5SDBC1220	Installation of Instruments	60	30-Jul-23	27-Sep-23	19-Jan-23	19-Mar-23	-192	S5SDBC1240	S5SDBT1160
S5SDBC1230	Installation of Monorail LA-01-01	60	25-Nov-22 A	01-Apr-23	15-Jan-23	10-Feb-23	-50	S5SDBC1450, S5SDBP1570,	S5SDBC1280, S5SDBC1280
S5SDBC1240	Installation of Process Pipe	90	31-May-23	28-Aug-23	20-Nov-22	17-Feb-23	-192	S5SDBP1640, S5SDBC1290, S5SDBC1280, S5SDBC1250, S5SDBC1270	S5SDBT1040, S5SDBC1220
S5SDBC1250	Installation of PS Screen Feed Pumps (3 nos.)	7	13-Mar-23*	19-Mar-23	04-Feb-23	10-Feb-23	-37	S5SDBP1490	S5SDBT1000, S5SDBC1280, S5SDBC1240
S5SDBC1260	Installation of Silo & Conveyor	60	01-May-23	29-Jun-23	05-Mar-23	03-May-23	-57	S5SDBP1610, S5SDBP1370	S5SDBT1060
S5SDBC1270	Installation of Sludge Thickening Polymer Preparation Tanks	45	31-Jan-23 A	07-Apr-23	03-Jan-23	17-Feb-23	-49	S5SDBP1600	S5SDBT1080, S5SDBC1420, S5SDBC1240
S5SDBC1280	Installation of Sludge Thickening Polymer Transfer Pumps (2 nos.)	7	02-Apr-23	08-Apr-23	11-Feb-23	17-Feb-23	-50	S5SDBP1450, S5SDBC1250, S5SDBC1230, S5SDBC1230	S5SDBT1000, S5SDBC1240
S5SDBC1290	Installation of THP Feed Pumps (4 nos.)	7	06-Apr-23*	12-Apr-23	11-Feb-23	17-Feb-23	-54	S5SDBP1620	S5SDBT1000, S5SDBC1240
S5SDBC1300	Position of Sludge Skips and Installation of Hydraulic System	14	17-Jul-23	30-Jul-23	05-May-23	18-May-23	-73	S5SDBP1530	S5T1060
Electrical		199	18-Apr-23	02-Nov-23	10-Nov-22	17-Nov-23	15		
S5SDBC1310	Installation of Electrical System - Cable Containment	50	25-May-23	13-Jul-23	10-Nov-22	29-Dec-22	-196	S5SDBC1680,	S5SDBC1320
S5SDBC1320	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	50	24-Jun-23	12-Aug-23	30-Aug-23	18-Oct-23	67	S5SDBC1310	S5SDBC1330
S5SDBC1330	Installation of Electrical System - Lighting and Small Power Accessories	30	13-Aug-23	11-Sep-23	19-Oct-23	17-Nov-23	67	S5SDBC1320	S5SDBT1130
S5SDBC1340	Installation of Control Cable Laying	30	14-Jul-23	12-Aug-23	18-Feb-23	19-Mar-23	-146	S5SDBC1310	S5SDBT1200, S5SDBT1200
S5SDBC1350	Installation of Power Cable Laying and Termination	60	04-Sep-23	02-Nov-23	14-Jan-23	14-Mar-23	-233	S5SDBC1370, S5SDBP1660, S5SDBC1310, S5SDBC1580	S5SDBT1050
S5SDBC1370	LV Switchroom Installation	60	22-Jun-23	20-Aug-23	15-Nov-22	13-Jan-23	-219	S5SDBC1020, S5SDBP1680	S5SDBT1110, S5SDBC1350
S5SDBC1380	TX Room Installation	90	18-Apr-23	16-Jul-23	01-Dec-22	28-Feb-23	-138	S5SDBP1740	S5SDBT1120
First Floor		286	17-Nov-22 A	31-Oct-23	04-Nov-22	17-Nov-23	17		
Mechanical		282	17-Nov-22 A	27-Oct-23	04-Nov-22	03-May-23	-177		
S5SDBC1390	Installation of EOT Crane LA-01-02	60	28-Nov-22 A	02-Apr-23	04-Nov-22	14-Dec-22	-109	S5SDBP1560, S5SDBP1420	S5SDBC1490, S5SDBC1400, S5SDBC1470, S5SDBC1500, S5SDBC1520



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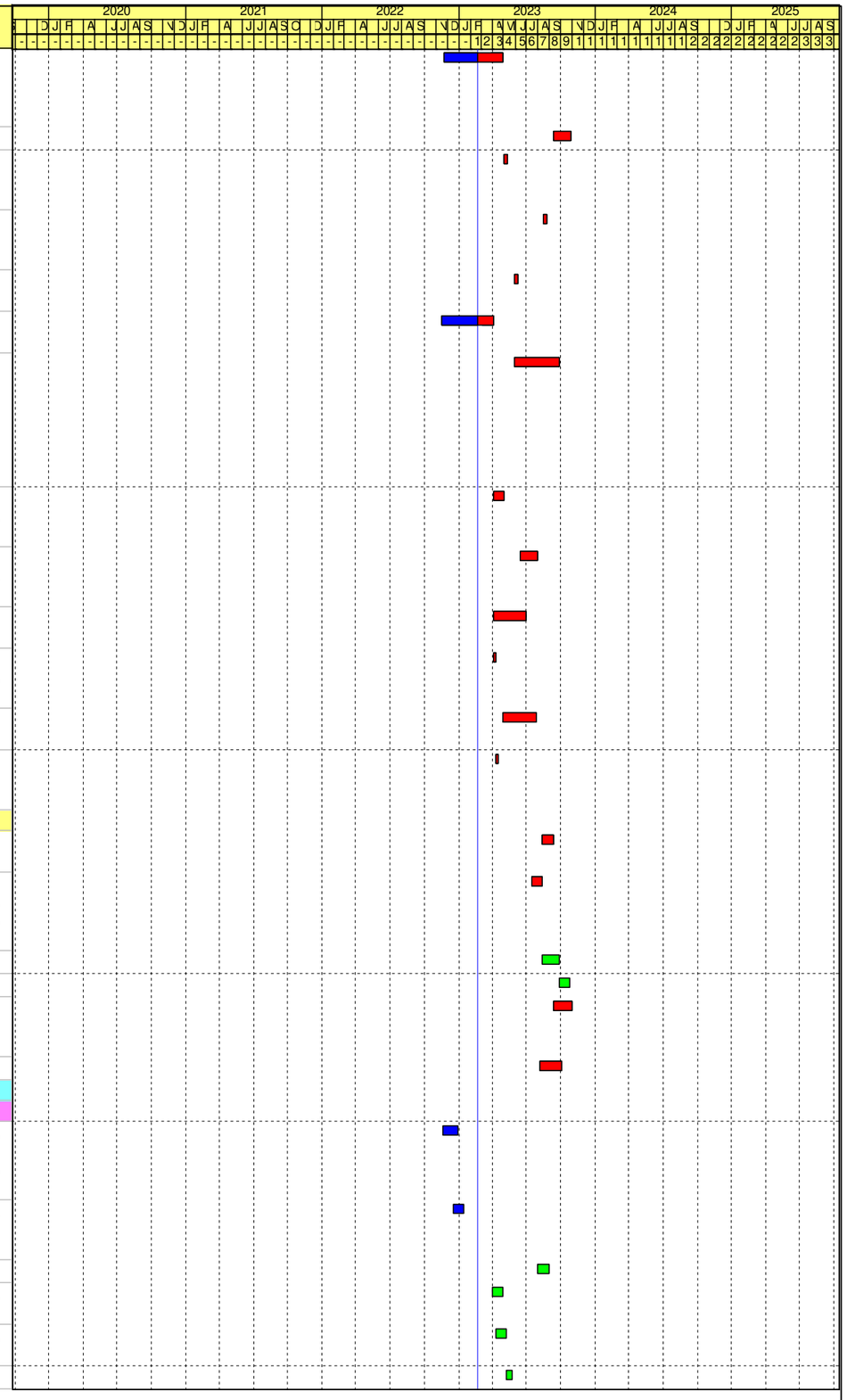
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5SDBC1400	Installation of EOT Crane LA-01-03	60	22-Nov-22 A	28-Apr-23	04-Nov-22	04-Dec-22	-145	S5SDBC1200, S5SDBP1560, S5SDBP1420, S5SDBC1390	S5SDBC1510
S5SDBC1410	Installation of Instruments	45	13-Sep-23	27-Oct-23	20-Mar-23	03-May-23	-177	S5SDBC1460	S5SDBT1160
S5SDBC1420	Installation of Mixer for Digested Sludge Holding Tank	10	01-May-23	10-May-23	25-Mar-23	03-Apr-23	-37	S5SDBP1430, S5SDBC1050, S5SDBC1270	S5SDBT1170
S5SDBC1430	Installation of Mixer for Polymer Tank	10	14-Aug-23	23-Aug-23	25-Mar-23	03-Apr-23	-142	S5SDBP1580, S5SDBP1460, S5SDBC1480	S5SDBT1170
S5SDBC1440	Installation of Mixer for PS holding tank	10	31-May-23	09-Jun-23	25-Mar-23	03-Apr-23	-67	S5SDBP1470, S5SDBC1470	S5SDBT1170
S5SDBC1450	Installation of Monorail LA-01-04	30	17-Nov-22 A	04-Apr-23	15-Jan-23	13-Feb-23	-50	S5SDBP1570, S5SDBP1420	S5SDBC1230
S5SDBC1460	Installation of Process Pipe	120	31-May-23	27-Sep-23	05-Dec-22	03-Apr-23	-177	S5SDBP1640, S5SDBC1480, S5SDBC1510, S5SDBC1490, S5SDBC1470, S5SDBC1500, S5SDBC1520	S5SDBT1040, S5SDBC1410
S5SDBC1470	Installation of Screen Press	30	03-Apr-23	02-May-23	23-Feb-23	24-Mar-23	-39	S5SDBC1200, S5SDBP1520, S5SDBC1390	S5SDBT1210, S5SDBC1440, S5SDBC1460
S5SDBC1480	Installation of Sludge Dewatering / Thickening Polymer Dilution Tanks	45	15-Jun-23	29-Jul-23	08-Feb-23	24-Mar-23	-127	S5SDBC1200, S5SDBP1410, S5SDBC1060	S5SDBT1080, S5SDBC1430, S5SDBC1460
S5SDBC1490	Installation of Sludge Dewatering Centrifuges (3 nos)	90	03-Apr-23	01-Jul-23	04-Jan-23	03-Apr-23	-89	S5SDBC1390, S5SDBP1510	S5SDBT1090, S5SDBC1460
S5SDBC1500	Installation of Sludge Dewatering Polymer Dosing Pumps (4 nos.)	7	03-Apr-23	09-Apr-23	21-Mar-23	27-Mar-23	-13	S5SDBP1440, S5SDBC1390	S5SDBT1000, S5SDBC1520, S5SDBC1460
S5SDBC1510	Installation of Sludge Thickening Centrifuges (4 nos.)	90	29-Apr-23	27-Jul-23	05-Dec-22	04-Mar-23	-145	S5SDBC1400, S5SDBP1540	S5SDBT1100, S5SDBC1460
S5SDBC1520	Installation of Sludge Thickening Polymer Dosing Pumps (5 nos.)	7	10-Apr-23	16-Apr-23	28-Mar-23	03-Apr-23	-13	S5SDBP1440, S5SDBC1500, S5SDBC1390	S5SDBT1000, S5SDBC1460
Electrical		110	14-Jul-23	31-Oct-23	15-Dec-22	17-Nov-23	17		
S5SDBC1530	Installation of Control Cable Laying	30	13-Aug-23	11-Sep-23	29-Jan-23	27-Feb-23	-196	S5SDBC1540, S5SDBC1185	S5SDBC1570
S5SDBC1540	Installation of Electrical System - Cable Containment	30	14-Jul-23	12-Aug-23	30-Dec-22	28-Jan-23	-196	S5SDBC1310, S5SDBC1790, S5P1050	S5SDBT1050, S5SDBC1570, S5SDBC1550, S5SDBC1530
S5SDBC1550	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	45	13-Aug-23	26-Sep-23	04-Sep-23	18-Oct-23	22	S5SDBC1540	S5SDBC1560
S5SDBC1560	Installation of Electrical System - Lighting and Small Power Accessories	30	27-Sep-23	26-Oct-23	19-Oct-23	17-Nov-23	22	S5SDBC1550	S5SDBT1130
S5SDBC1570	Installation of SCADA System / Control Monitoring System (SPS, Process Water)	50	12-Sep-23	31-Oct-23	28-Feb-23	18-Apr-23	-196	S5SDBC1540, S5SDBC1530, S5SDBP1710	S5SDBT1200
S5SDBC1580	LV Switchroom Installation	60	05-Aug-23	03-Oct-23	15-Dec-22	12-Feb-23	-233	S5SDBP1690	S5SDBC1350
BS Installation		337	21-Nov-22 A	12-Dec-23	21-Sep-22	19-Jan-24	38		
Basement		319	21-Nov-22 A	24-Nov-23	21-Sep-22	19-Jan-24	56		
S5SDBC1590	Installation of FS System - Main Pipework	30	21-Nov-22 A	30-Dec-22 A	21-Sep-22	21-Sep-22		S5SDBC1020	S5SDBC1620, S5SDBC1170, S5SDBC1790, S5SDBC1680
S5SDBC1600	Installation of FS System - Branch Pipework, Conduit & Wiring	40	16-Dec-22 A	14-Jan-23 A	24-Oct-23	24-Oct-23			S5SDBC1610, S5S1130, S5SDBC1690
S5SDBC1610	Installation of FS System - Dropper, Sprinkler Head, Detector & Devices	30	01-Aug-23*	30-Aug-23	03-Nov-23	02-Dec-23	94	S5SDBC1600	S5SDBT1150
S5SDBC1620	Installation of MVAC System - Ceiling Mount Equipment, Main Ductwork and Pipework	30	31-Mar-23*	29-Apr-23	26-May-23	24-Jun-23	56	S5SDBC1590	S5SDBC1630, S5SDBC1650
S5SDBC1630	Installation of MVAC System - Wall Mount Equipment, Branch Duct & Pipework	30	10-Apr-23	09-May-23	16-Jul-23	14-Aug-23	97	S5SDBC1620	S5SDBC1640, S5SDBC1710
S5SDBC1640	Installation of MVAC System - Air Grills & Diffuser	15	10-May-23	24-May-23	03-Nov-23	17-Nov-23	177	S5SDBC1630	S5SDBT1180



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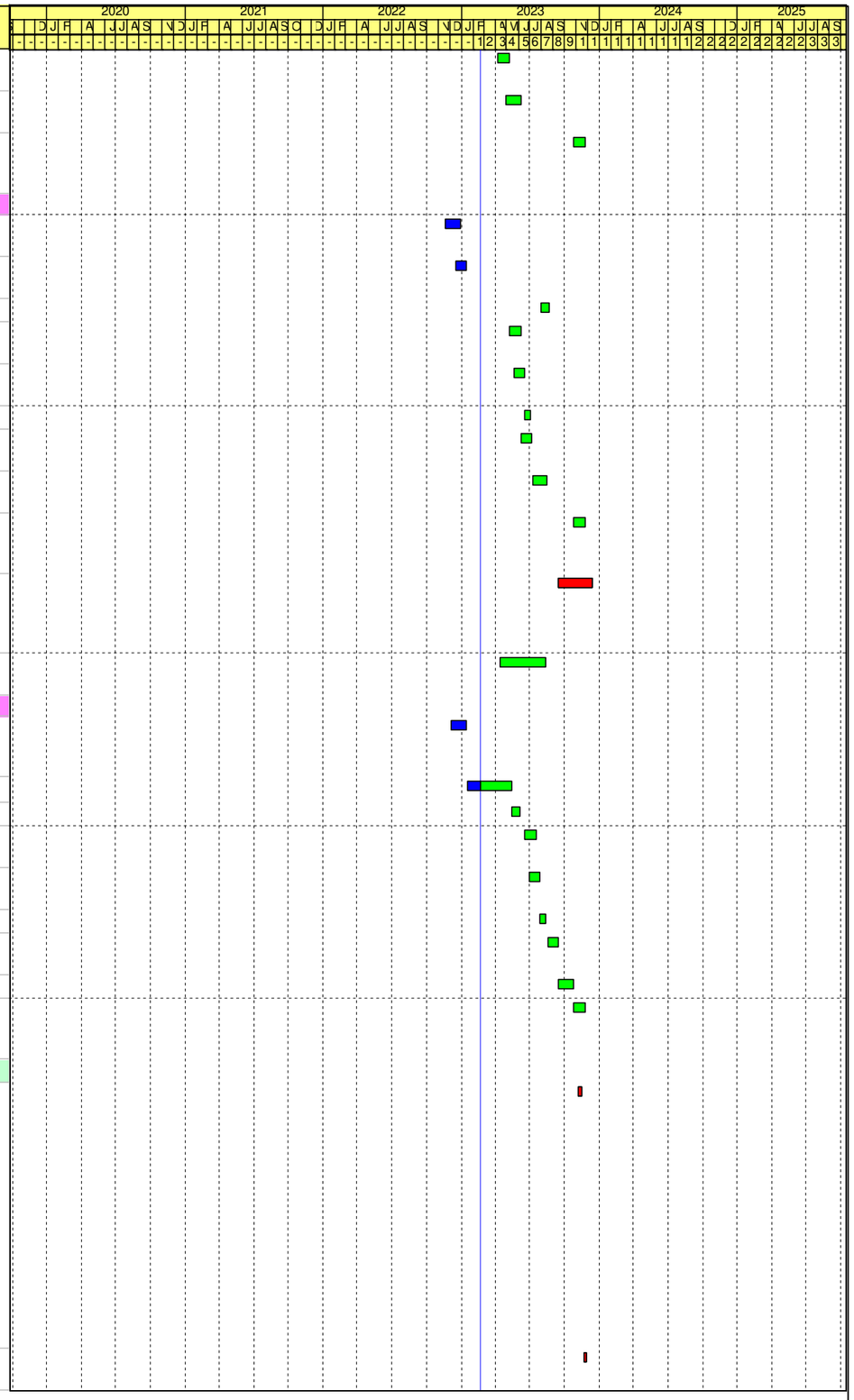
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5SDBC1650	Installation of Plumbing System - Main Pipework	30	09-Apr-23*	08-May-23	04-Jun-23	03-Jul-23	56	S5SDBC1620	S5SDBC1670, S5SDBC1660
S5SDBC1660	Installation of Plumbing System - Branch Pipework	40	29-Apr-23	07-Jun-23	24-Jun-23	02-Aug-23	56	S5SDBC1650	S5SDBC1670, S5SDBC1740
S5SDBC1670	Installation of Plumbing System - Sanitary Fitting	30	26-Oct-23	24-Nov-23	21-Dec-23	19-Jan-24	56	S5SDBC1650, S5SDBC1660, S5SDBC1870	S5SDBT1190
Ground Floor		326	21-Nov-22 A	12-Dec-23	10-Nov-22	19-Jan-24	38		
S5SDBC1680	Installation of FS System - Main Pipework	20	21-Nov-22 A	30-Dec-22 A	10-Nov-22	10-Nov-22		S5SDBC1020, S5SDBC1590	S5SDBC1710, S5SDBC1310
S5SDBC1690	Installation of FS System - Branch pipework, Conduit & Wiring	30	16-Dec-22 A	14-Jan-23 A	24-Oct-23	24-Oct-23		S5SDBC1600	S5SDBC1700, S5S1130
S5SDBC1700	Installation of FS System - Dropper, Sprinkler Head, Detector & Devices	20	01-Aug-23*	20-Aug-23	13-Nov-23	02-Dec-23	104	S5SDBC1690	S5SDBT1150
S5SDBC1710	Installation of MVAC System - Ceiling Mount Equipment, Main Ductwork and Pipework	30	10-May-23	08-Jun-23	15-Aug-23	13-Sep-23	97	S5SDBC1680, S5SDBC1630	S5SDBC1720
S5SDBC1720	Installation of MVAC System - Wall Mount Equipment, Branch Duct & Pipework	30	20-May-23	18-Jun-23	25-Aug-23	23-Sep-23	97	S5SDBC1710	S5SDBC1730, S5SDBC1820
S5SDBC1730	Installation of MVAC System - Air Grills & Diffuser	15	19-Jun-23	03-Jul-23	03-Nov-23	17-Nov-23	137	S5SDBC1720	S5SDBT1180
S5SDBC1740	Installation of Plumbing System - Main Pipework	30	08-Jun-23	07-Jul-23	03-Aug-23	01-Sep-23	56	S5SDBC1660	S5SDBC1760, S5SDBC1750
S5SDBC1750	Installation of Plumbing System - Branch Pipework	40	08-Jul-23	16-Aug-23	02-Sep-23	11-Oct-23	56	S5SDBC1740	S5SDBC1760, S5SDBC1850
S5SDBC1760	Installation of Plumbing System - Sanitary Fitting	30	26-Oct-23	24-Nov-23	21-Dec-23	19-Jan-24	56	S5SDBC1740, S5SDBC1750, S5SDBC1870	S5SDBT1190
S5SDBC1770	Generator & Fuel Room Installation	90	14-Sep-23	12-Dec-23	06-Dec-22	05-Mar-23	-282	S5SDBP1670, S5SDBC1020, S5S1010, S5S1260	S5SDBT1140
S5SDBC1780	Installation of Lift	120	15-Apr-23*	12-Aug-23	19-Sep-23	16-Jan-24	157	S5SDBP1060, S5WS2C1190	S5SDBT1070
First Floor		308	06-Dec-22 A	24-Nov-23	30-Dec-22	19-Jan-24	56		
S5SDBC1790	Installation of FS System - Main Pipework	20	06-Dec-22 A	15-Jan-23 A	30-Dec-22	30-Dec-22		S5SDBC1590	S5SDBC1800, S5SDBC1540, S5SDBC1820
S5SDBC1800	Installation of FS System - Branch pipework, Conduit & Wiring	30	16-Jan-23 A	15-May-23	01-Aug-23	23-Oct-23	161	S5SDBC1790	S5SDBC1810
S5SDBC1810	Installation of FS System - Dropper, Sprinkler Head, Detector & Devices	20	16-May-23	04-Jun-23	13-Nov-23	02-Dec-23	181	S5SDBC1800	S5SDBT1150
S5SDBC1820	Installation of MVAC System - Ceiling Mount Equipment, Main Ductwork and Pipework	30	19-Jun-23	18-Jul-23	24-Sep-23	23-Oct-23	97	S5SDBC1790, S5SDBC1720	S5SDBC1830
S5SDBC1830	Installation of MVAC System - Wall Mount Equipment, Branch Duct & Pipework	30	29-Jun-23	28-Jul-23	04-Oct-23	02-Nov-23	97	S5SDBC1820	S5SDBC1840
S5SDBC1840	Installation of MVAC System - Air Grills & Diffuser	15	29-Jul-23	12-Aug-23	03-Nov-23	17-Nov-23	97	S5SDBC1830	S5SDBT1180
S5SDBC1850	Installation of Plumbing System - Main Pipework	30	17-Aug-23	15-Sep-23	12-Oct-23	10-Nov-23	56	S5SDBC1750	S5SDBC1870, S5SDBC1860
S5SDBC1860	Installation of Plumbing System - Branch Pipework	40	16-Sep-23	25-Oct-23	11-Nov-23	20-Dec-23	56	S5SDBC1850	S5SDBC1870
S5SDBC1870	Installation of Plumbing System - Sanitary Fitting	30	26-Oct-23	24-Nov-23	21-Dec-23	19-Jan-24	56	S5SDBC1850, S5SDBC1860	S5SDBT1190, S5SDBC1760, S5SDBC1670
Testing and Commissioning		191	30-Jun-23	06-Jan-24	14-Jan-23	16-Mar-24	70		
S5SDBT1000	Dry Test for Pumps	7	08-Nov-23	14-Nov-23	28-Apr-23	04-May-23	-194	S5SDBC1250, S5SDBC1120, S5SDBC1110, S5SDBC1070, S5SDBC1130, S5SDBC1150, S5SDBC1140, S5SDBC1040, S5SDBC1290, S5SDBC1280, S5SDBC1500, S5SDBC1520, S5SDBC1030, S5SDBT1050	S5SDBT1220, S5SDBT1230
S5SDBT1010	Functional Check for Pumps (excluded FS Water Pumps and Process Water Pumps)	7	22-Nov-23	28-Nov-23	12-May-23	18-May-23	-194	S5SDBT1220, S5SDBT1050	S5T1060



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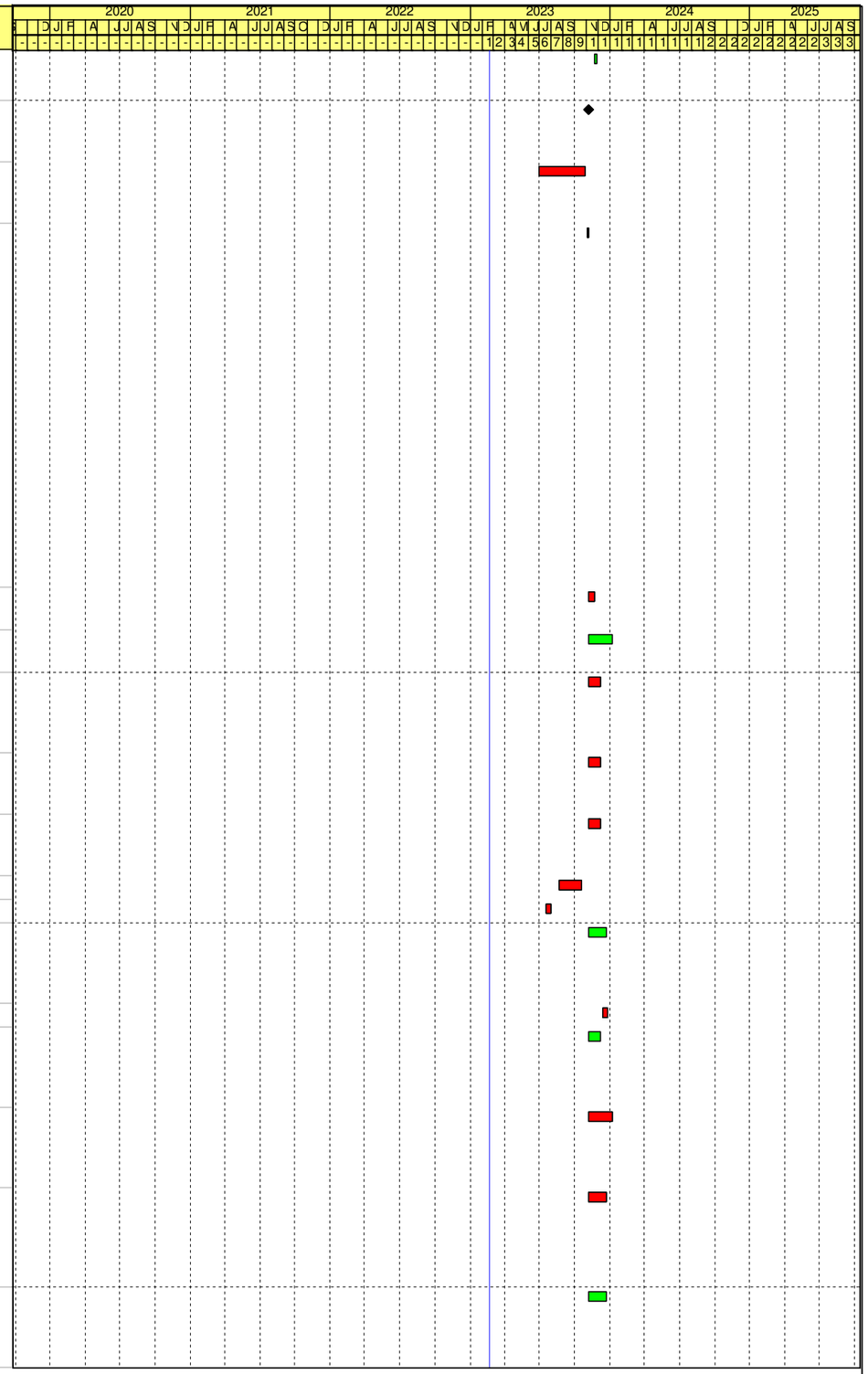
Remaining Work
Critical Activity
Milestone
Actual Progress

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 Feb 2023

Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5SDBT1020	Functional Check for Pumps (FS Water Pumps and Process Water Pumps)	7	22-Nov-23	28-Nov-23	26-Dec-23	01-Jan-24	34	S5SDBT1050, S5SDBT1230	S5S1220
S5SDBT1030	Permanent Power ready for T&C	0	08-Nov-23		19-Apr-23		-203	S5SDBT1050, S5WS2C1120	S5SDBT1100, S5SDBT1230, S5SDBT1090
S5SDBT1040	Pipe Pressure Test	120	30-Jun-23	27-Oct-23	19-Jan-23	18-May-23	-162	S5SDBC1460, S5SDBC1240, S5SDBC1100	S5T1060
S5SDBT1050	Ready for Power Energisation - LV	5	03-Nov-23	07-Nov-23	15-Mar-23	19-Mar-23	-233	S5SDBC1540, S5SDBT1110, S5SDBC1350, S5SDBT1120	S5SDBT1090, S5SDBT1070, S5SDBT1100, S5SDBT1020, S5SDBT1230, S5SDBT1080, S5SDBT1060, S5SDBT1130, S5SDBT1150, S5SDBT1180, S5SDBT1190, S5SDBT1170, S5SDBT1210, S5SDBT1200, S5SDBT1160, S5SDBT1220, S5SDBT1010, S5SDBT1000, S5SDBT1030
S5SDBT1060	SAT for Conveyor	15	08-Nov-23	22-Nov-23	04-May-23	18-May-23	-188	S5SDBC1260, S5SDBT1050	S5T1060
S5SDBT1070	SAT for Lift	60	08-Nov-23	06-Jan-24	17-Jan-24	16-Mar-24	70	S5SDBC1780, S5SDBT1050	S5S1090
S5SDBT1080	SAT for Polymer System	30	08-Nov-23	07-Dec-23	19-Apr-23	18-May-23	-203	S5SDBC1480, S5SDBC1270, S5SDBC1050, S5SDBT1050	S5T1060
S5SDBT1090	SAT for Sludge Dewatering Centrifuges	30	08-Nov-23	07-Dec-23	19-Apr-23	18-May-23	-203	S5SDBT1050, S5SDBC1490, S5SDBT1030	S5T1060
S5SDBT1100	SAT for Sludge Thickening Cnetrifuge	30	08-Nov-23	07-Dec-23	19-Apr-23	18-May-23	-203	S5SDBT1050, S5SDBC1510, S5SDBT1030	S5T1060
S5SDBT1110	SAT for Switchboard	60	21-Aug-23	19-Oct-23	14-Jan-23	14-Mar-23	-219	S5SDBC1370	S5SDBT1050
S5SDBT1120	SAT for Tranformer	14	17-Jul-23	30-Jul-23	01-Mar-23	14-Mar-23	-138	S5SDBC1380	S5SDBT1050
S5SDBT1130	SAT of Electrical System (BS)	45	08-Nov-23	22-Dec-23	18-Nov-23	01-Jan-24	10	S5SDBC1330, S5SDBC1190, S5SDBC1560, S5SDBT1050	S5S1220
S5SDBT1140	SAT of Emergency Generator System	15	13-Dec-23	27-Dec-23	06-Mar-23	20-Mar-23	-282	S5SDBC1770	S5S1270
S5SDBT1150	SAT of FS System	30	08-Nov-23	07-Dec-23	03-Dec-23	01-Jan-24	25	S5SDBC1810, S5SDBC1700, S5SDBC1610, S5SDBT1050	S5S1220
S5SDBT1160	SAT of Instrumentation	60	08-Nov-23	06-Jan-24	20-Mar-23	18-May-23	-233	S5SDBC1410, S5SDBC1220, S5SDBC1080, S5SDBT1050	S5T1060
S5SDBT1170	SAT of Mixer	45	08-Nov-23	22-Dec-23	04-Apr-23	18-May-23	-218	S5SDBC1430, S5SDBC1420, S5SDBC1440, S5SDBC1090, S5SDBT1050	S5T1060
S5SDBT1180	SAT of MVAC System	45	08-Nov-23	22-Dec-23	18-Nov-23	01-Jan-24	10	S5SDBC1840, S5SDBC1730, S5SDBC1640, S5SDBT1050	S5S1220



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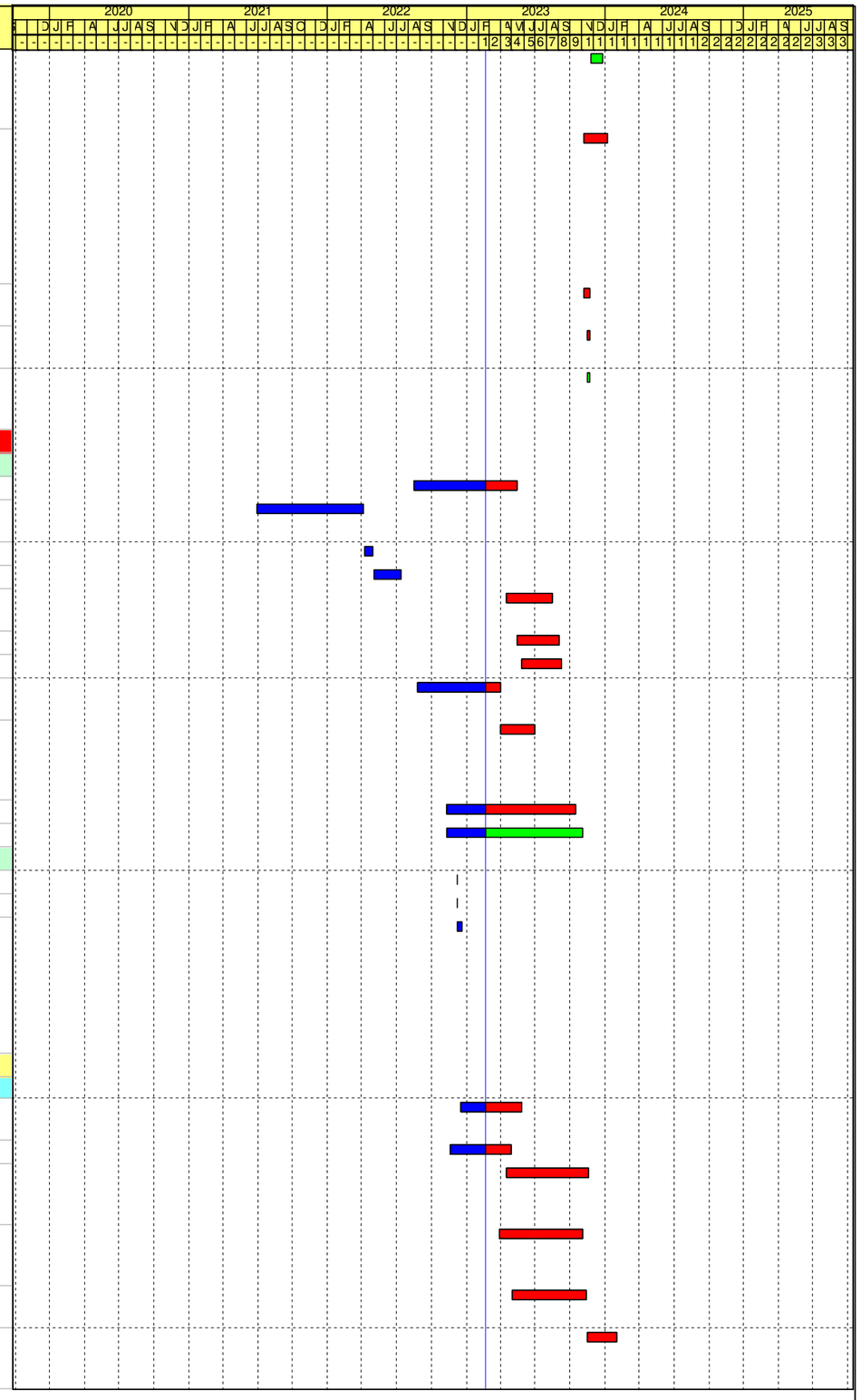
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5SDBT1190	SAT of Plumbing System	30	25-Nov-23	24-Dec-23	20-Jan-24	18-Feb-24	56	S5SDBC1670, S5SDBC1760, S5SDBC1870, S5SDBT1050	S5S1160
S5SDBT1200	SAT of SCADA & PMS	60	08-Nov-23	06-Jan-24	20-Mar-23	18-May-23	-233	S5SDBC1570, S5SDBT1050, S5SDBC1170, S5SDBC1185, S5SDBC1340, S5SDBC1340, S5SDBC1310, S5SDBC1310	S5T1060
S5SDBT1210	SAT of Screen Press	15	08-Nov-23	22-Nov-23	04-May-23	18-May-23	-188	S5SDBC1470, S5SDBT1050	S5T1060
S5SDBT1220	Wet Test for Pumps (excluded FS Water Pumps and Process Water Pumps)	7	15-Nov-23	21-Nov-23	05-May-23	11-May-23	-194	S5SDBT1000, S5SDBT1050	S5SDBT1010
S5SDBT1230	Wet Test for Pumps (FS Water Pumps and Process Water Pumps)	7	15-Nov-23	21-Nov-23	19-Dec-23	25-Dec-23	34	S5SDBT1000, S5SDBT1050, S5SDBT1030	S5SDBT1020
Combined Heat & Power Building		986	29-Jun-21 A	01-Apr-24	02-Aug-22	16-Apr-25	380		
Fabrication, FAT & Delivery of Major Plant & Materials		876	29-Jun-21 A	03-Nov-23	02-Aug-22	16-Apr-25	530		
S5CHPP1000	Fabrication & Delivery of Pre-Treatment	120	15-Aug-22 A	14-May-23	19-Aug-22	09-Nov-22	-186		S5CHPC1170
S5CHPP1010	Fabrication of CHP System	270	29-Jun-21 A	06-Apr-22 A	02-Aug-22	02-Aug-22		S2P1070, S2D1610	S5CHPP1020
S5CHPP1020	FAT for CHP Generators	14	07-Apr-22 A	30-Apr-22 A	02-Aug-22	02-Aug-22		S5CHPP1010	S5CHPP1030
S5CHPP1030	Delivery of CHP Generators	60	02-May-22 A	14-Jul-22 A	02-Aug-22	02-Aug-22		S5CHPP1020	S5CHPC1050
S5CHPP1040	Fabrication & Delivery of Gas Detection System	120	17-Apr-23	14-Aug-23	18-Oct-22	14-Feb-23	-181	S2D2000, PL1020	S5CHPC1170, S5CHPC1280
S5CHPP1050	Fabrication & Delivery of LV Switchboard for G/F	112	14-May-23*	02-Sep-23	11-Oct-22	30-Jan-23	-215		S5CHPC1145
S5CHPP1055	Fabrication & Delivery of LV Switchboard for 1/F	105	28-May-23*	09-Sep-23	14-Sep-22	27-Dec-22	-256		S5CHPC1260
S5CHPP1060	Fabrication & Delivery of Lifting Appliances	90	24-Aug-22 A	31-Mar-23	25-Nov-22	02-Jan-23	-88		S5CHPC1030, S5CHPC1160
S5CHPP1070	Fabrication & Delivery of Pipeworks & Associated Valves	91	01-Apr-23*	30-Jun-23	03-Aug-22	01-Nov-22	-241	S5P1010	S5CHPC1070, S5CHPC1200, S5CHPC1270, S5CHPC1280
S5CHPP1080	Fabrication & Delivery of SCADA System for G/F	340	11-Nov-22 A	16-Oct-23	09-Sep-22	04-May-23	-165		S5CHPC1120
S5CHPP1090	Fabrication & Delivery of SCADA System for 1/F	358	11-Nov-22 A	03-Nov-23	04-Aug-24	16-Apr-25	530		
Installation		408	19-Nov-22 A	01-Feb-24	02-Aug-22	18-Feb-24	17		
S5CHPC1000	Access to CHP Building (Impacted by EWN-0314)	1	07-Dec-22 A	07-Dec-22 A	30-Sep-22	30-Sep-22			S5CHPC1020
S5CHPC1010	Access to CHP Building (Impacted by EWN-0314-1)	1	07-Dec-22 A	07-Dec-22 A	30-Sep-22	30-Sep-22			S5CHPC1020
S5CHPC1020	Mobilisation	12	08-Dec-22 A	19-Dec-22 A	30-Sep-22	30-Sep-22		AD1060, S5S1020, S5CHPC1000, S5CHPC1010	PL1550, S5CHPC1030, S5CHPC1040, S5CHPC1080, S5CHPC1130, S5CHPC1140, S5CHPC1210
E&M Installation		407	19-Nov-22 A	01-Feb-24	02-Aug-22	17-Jul-23	-199		
Ground Floor		407	19-Nov-22 A	01-Feb-24	02-Aug-22	17-Jul-23	-199		
S5CHPC1030	Installation of EOT Crane LA-04-01	90	19-Dec-22 A	26-May-23	30-Sep-22	02-Jan-23	-144	S5CHPC1020, S5CHPP1060	S5CHPC1050, S5CHPC1160
S5CHPC1040	Installation of Monorail LA-04-02 (total 3nos.)	60	19-Nov-22 A	28-Apr-23	28-Oct-22	02-Jan-23	-116	S5CHPC1020	S5CHPC1160
S5CHPC1050	Installation of CHP System - Mechanical Work	215	18-Apr-23*	18-Nov-23	02-Aug-22	04-Mar-23	-259	S5CHPC1030, S5CHPP1030	S5CHPC1100, S5CHPT1030, S5CHPC1270
S5CHPC1060	Installation of Steam Boiler System - Mechanical Work	219	29-Mar-23*	02-Nov-23	19-Sep-22	25-Apr-23	-191		S5CHPC1070, S5CHPC1170, S5CHPT1050
S5CHPC1070	Installation of pipework	197	01-May-23	13-Nov-23	19-Sep-22	03-Apr-23	-224	S5CHPC1060, S5CHPP1070	S5CHPT1000
S5CHPC1100	Installation of Electrical System	79	15-Nov-23	01-Feb-24	01-Mar-23	18-May-23	-259	S5CHPC1090, S5CHPC1050, S5P1050	S5CHPC1120, S5CHPT1050, S5CHPT1030



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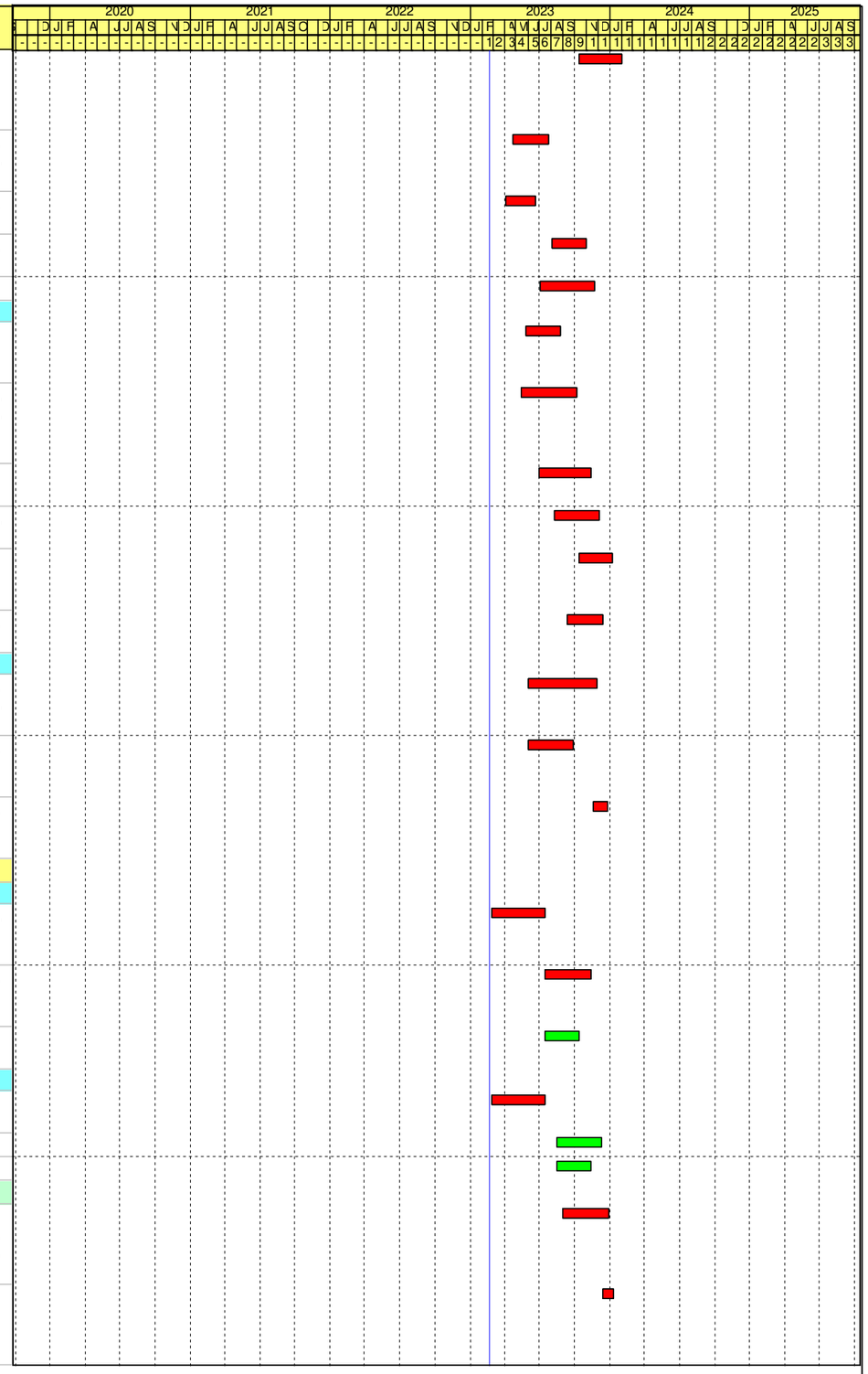
S5CHPC1120	Installation of SCADA System	111	14-Oct-23	01-Feb-24	29-Mar-23	17-Jul-23	-199	S5CHPC1100, S5CHPP1080	S5T1100, S5T1000, S5T1010, S5CHPC1250
S5CHPC1130	Transfomers Room Installation	93	23-Apr-23*	24-Jul-23	29-Nov-22	01-Mar-23	-145	S5WS2P1020, S5CHPC1020	S5CHPT1020, S5CHPC1260, S5CHPT1010
S5CHPC1140	HV Switchroom Installation	77	05-Apr-23*	20-Jun-23	14-Jan-23	31-Mar-23	-81	S5CHPC1020, S5WS2P1080	S5CHPT1020, S5CHPT1010
S5CHPC1145	LV Switchroom Installation	90	04-Aug-23	01-Nov-23	01-Jan-23	31-Mar-23	-215	S5CHPP1050	S5CHPT1010, S5CHPT1020
S5CHPC1150	Diesel Storage & Pump Room Installation	144	03-Jul-23*	23-Nov-23	28-Oct-22	20-Mar-23	-248		S5S1280
First Floor		239	15-May-23	08-Jan-24	10-Nov-22	17-Jul-23	-175		
S5CHPC1160	Installation of Monorail / Davit LA-04-03 to LA-04-10 (total 8nos.)	91	27-May-23	25-Aug-23	03-Jan-23	03-Apr-23	-144	S5CHPC1040, S5CHPP1060, S5CHPC1030	S5CHPC1170
S5CHPC1170	Installation of Biogas Pre-treatment System - Mechanical Work	145	15-May-23	06-Oct-23	10-Nov-22	03-Apr-23	-186	S5CHPC1060, S5CHPC1160, S5CHPP1000, S5CHPP1040	S5CHPC1200, S5CHPC1230, S5CHPT1040
S5CHPC1200	Installation of pipework	136	01-Jul-23	13-Nov-23	19-Nov-22	03-Apr-23	-224	S5CHPC1170, S5CHPP1070	S5CHPT1000
S5CHPC1230	Installation of Electrical System	120	08-Aug-23	05-Dec-23	03-Feb-23	02-Jun-23	-186	S5CHPC1170, S5P1050	S5CHPC1250, S5CHPT1040
S5CHPC1250	Installation of SCADA System (THP, Digester,H2S removal System, Dou12, Biogas Holding Tank)	87	14-Oct-23	08-Jan-24	22-Apr-23	17-Jul-23	-175	S5CHPC1230, S5CHPC1120	S5T1100, S5T1000, S5T1010
S5CHPC1260	LV Switchroom Installation	92	12-Sep-23	12-Dec-23	30-Dec-22	31-Mar-23	-256	S5CHPC1130, S5CHPP1055	S5CHPT1020, S5CHPT1010
Roof		210	01-Jun-23	27-Dec-23	03-Oct-22	30-Apr-23	-241		
S5CHPC1270	Installation of CHP System - Mechanical Work	180	01-Jun-23	27-Nov-23	03-Oct-22	31-Mar-23	-241	S5CHPC1050, S5CHPP1070	S5CHPT1030, S5CHPC1280, S5CHPC1290
S5CHPC1280	Installation of Steam Boiler System - Mechanical Work	120	01-Jun-23	28-Sep-23	02-Dec-22	31-Mar-23	-181	S5CHPC1270, S5CHPP1070, S5CHPP1040	S5CHPT1050, S5CHPC1290
S5CHPC1290	Installation of Electrical System	38	20-Nov-23	27-Dec-23	24-Mar-23	30-Apr-23	-241	S5CHPC1270, S5CHPC1280, S5P1050	S5CHPT1040, S5CHPT1020
BS Installation		288	27-Feb-23	11-Dec-23	14-Oct-22	18-Feb-24	69		
Ground Floor		258	27-Feb-23	11-Nov-23	14-Oct-22	19-Jan-24	69		
S5CHPC1080	Installation of FS System	138	27-Feb-23*	14-Jul-23	14-Oct-22	28-Feb-23	-136	S5CHPC1020, S5CHPC1210	S5CHPC1090, S5CHPC1110, S5S1220
S5CHPC1090	Installation of MVAC System	120	15-Jul-23	11-Nov-23	01-Mar-23	28-Jun-23	-136	S5CHPC1080	S5CHPC1100, S5S1220, S5CHPC1220
S5CHPC1110	Installation of Plumbing System	90	15-Jul-23	12-Oct-23	22-Oct-23	19-Jan-24	99	S5CHPC1080	S5S1160, S5CHPC1240
First Floor		288	27-Feb-23	11-Dec-23	14-Oct-22	18-Feb-24	69		
S5CHPC1210	Installation of FS System	138	27-Feb-23*	14-Jul-23	14-Oct-22	28-Feb-23	-136	S5CHPC1020	S5S1220, S5CHPC1080
S5CHPC1220	Installation of MVAC System	120	14-Aug-23	11-Dec-23	04-Sep-23	01-Jan-24	21	S5CHPC1090	S5S1220
S5CHPC1240	Installation of Plumbing System	90	14-Aug-23	11-Nov-23	21-Nov-23	18-Feb-24	99	S5CHPC1110	S5S1160
Testing and Commissioning		215	31-Aug-23	01-Apr-24	19-Jan-23	17-Jul-23	-259		
S5CHPT1000	Pipe Pressure Test	120	31-Aug-23	28-Dec-23	19-Jan-23	18-May-23	-224	S5CHPC1200, S5CHPC1070	S5T1100, S5CHPT1030, S5CHPT1040, S5CHPT1050
S5CHPT1010	SAT for Transformer & Switchboard	30	13-Dec-23	11-Jan-24	01-Apr-23	30-Apr-23	-256	S5CHPC1260, S5CHPC1140, S5CHPC1130, S5CHPC1145	S5CHPT1020



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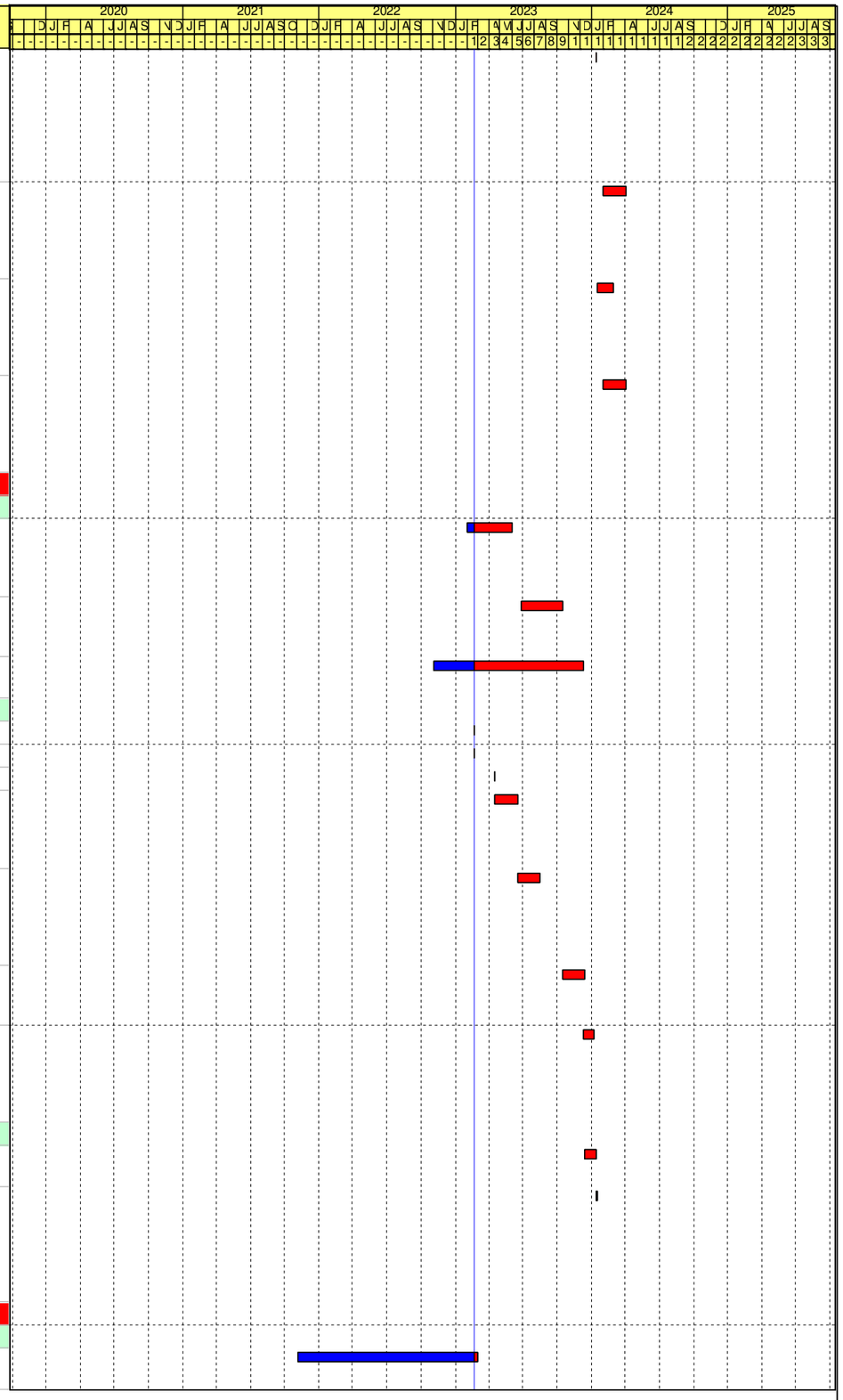
S5CHPT1020	Ready for Power Energisation	3	12-Jan-24	14-Jan-24	01-May-23	03-May-23	-256	S5CHPC1260, S5WS2C1110, S5CHPC1130, S5CHPC1140, S5CHPT1010, S5CHPC1290, S5CHPC1145	S5CHPT1030, S5BIOT1010, S5THPT1010, S5CHPT1040, S5CHPT1050
S5CHPT1030	SAT for CHP System	60	02-Feb-24	01-Apr-24	19-May-23	17-Jul-23	-259	S5CHPT1020, S5CHPC1050, S5CHPC1100, S5CHPC1270, S5CHPT1000	S5T1100
S5CHPT1040	SAT for Pre-treatment System	45	15-Jan-24	28-Feb-24	03-Jun-23	17-Jul-23	-226	S5CHPC1170, S5CHPT1020, S5CHPC1230, S5CHPC1290, S5CHPT1000	S5T1100
S5CHPT1050	SAT for Steam Boiler System	60	02-Feb-24	01-Apr-24	19-May-23	17-Jul-23	-259	S5CHPC1060, S5CHPC1100, S5CHPT1020, S5CHPC1280, S5CHPT1000	S5T1100
Tx Rm & LV Switchroom (for UV)		**401**	**04-Nov-22 A**	**15-Jan-24**	**06-Jul-22**	**31-Aug-23**	**-137**		
Fabrication, FAT & Delivery of Major Plant & Materials		**401**	**04-Nov-22 A**	**09-Dec-23**	**06-Jul-22**	**01-Aug-23**	**-130**		
S5TXRP1000	Fabrication & Delivery of Transfomers -UV (Tx 07 & 08)	120	03-Feb-23 A	02-Jun-23	06-Jul-22	15-Oct-22	-230	S1D1130, S1D1290, S1D1210, S2P1110	S5TXRC1030
S5TXRP1010	Fabrication & Delivery of LVSB -UV	110	27-Jun-23*	14-Oct-23	10-Sep-22	28-Dec-22	-290	S1D1210, S1D1290, S2P1130	S5TXRC1040
S5TXRP1020	Fabrication & Delivery of SCADA System	401	04-Nov-22 A	09-Dec-23	14-Oct-22	01-Aug-23	-130	S1D1290, S2P1140	S5TXRC1050
Installation		**322**	**21-Feb-23**	**08-Jan-24**	**30-Aug-22**	**31-Aug-23**	**-130**		
S5TXRC1000	Access to TX Rm & LV Switchroom (Impacted by EWN-0314)	1	21-Feb-23*	21-Feb-23	30-Aug-22	30-Aug-22	-175		S5TXRC1020
S5TXRC1010	Access to TX Rm & LV Switchroom (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	30-Aug-22	30-Aug-22	-175		S5TXRC1020
S5TXRC1015	Assume actual access Date	1	17-Apr-23*	17-Apr-23	30-Aug-22	30-Aug-22	-230		S5TXRC1020
S5TXRC1020	BS Fitting Intallation (at Tx Rm & LV Switchroom)	60	18-Apr-23	16-Jun-23	31-Aug-22	29-Oct-22	-230	AD1100, S5TXRC1000, S5TXRC1010, S5TXRC1015	S5TXRT1010, S5TXRC1030
S5TXRC1030	E&M Installation of Transfomers in Tx Rm	60	17-Jun-23	15-Aug-23	30-Oct-22	28-Dec-22	-230	S5TXRC1020, S4C1010, S5TXRP1000, S1D1310, S5P1050	S5TXRC1040, S5TXRT1000
S5TXRC1040	E&M Installation of LVSB	60	15-Oct-23	13-Dec-23	29-Dec-22	26-Feb-23	-290	S5TXRC1030, S5TXRP1010, S5P1050	S5TXRT1010, S5TXRT1000
S5TXRC1050	Installation of SCADA System (UV, DOU11, PSW)	30	10-Dec-23	08-Jan-24	02-Aug-23	31-Aug-23	-130	S4C1040, S5TXRP1020, S4C1070, S4C1080	S5T1200, S5T1120, S5T1000, S5T1010, PL1210
Testing and Commissioning		**33**	**14-Dec-23**	**15-Jan-24**	**27-Feb-23**	**31-Mar-23**	**-290**		
S5TXRT1000	SAT for Transformer & Switchboard	30	14-Dec-23	12-Jan-24	27-Feb-23	28-Mar-23	-290	S5TXRC1040, S5TXRC1030	S5TXRT1010
S5TXRT1010	Ready for Power Energisation	3	13-Jan-24	15-Jan-24	29-Mar-23	31-Mar-23	-290	S5TXRC1020, S5TXRC1040, S5WS2C1060, S5WS2C1040, S5WS2C1130, S5TXRT1000	SC51110, S5SHPT1000, S5DOUT1000, S5PSWT1000
Sludge Digesters & Distribution Chamber		**800**	**06-Nov-21 A**	**29-Jan-24**	**03-Sep-22**	**16-Apr-25**	**443**		
Fabrication, FAT & Delivery of Major Plant & Materials		**602**	**06-Nov-21 A**	**15-Jul-23**	**09-Sep-22**	**16-Dec-22**	**-211**		
S5DIGP1000	Fabrication & Delivery of Sludge Digestion System	180	06-Nov-21 A	01-Mar-23	09-Sep-22	17-Sep-22	-165	S2P1020, S2D1450	S5DIGC1210



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Contract No. DE/2018/03
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities
Revised Programme - as at 20 Feb 2023

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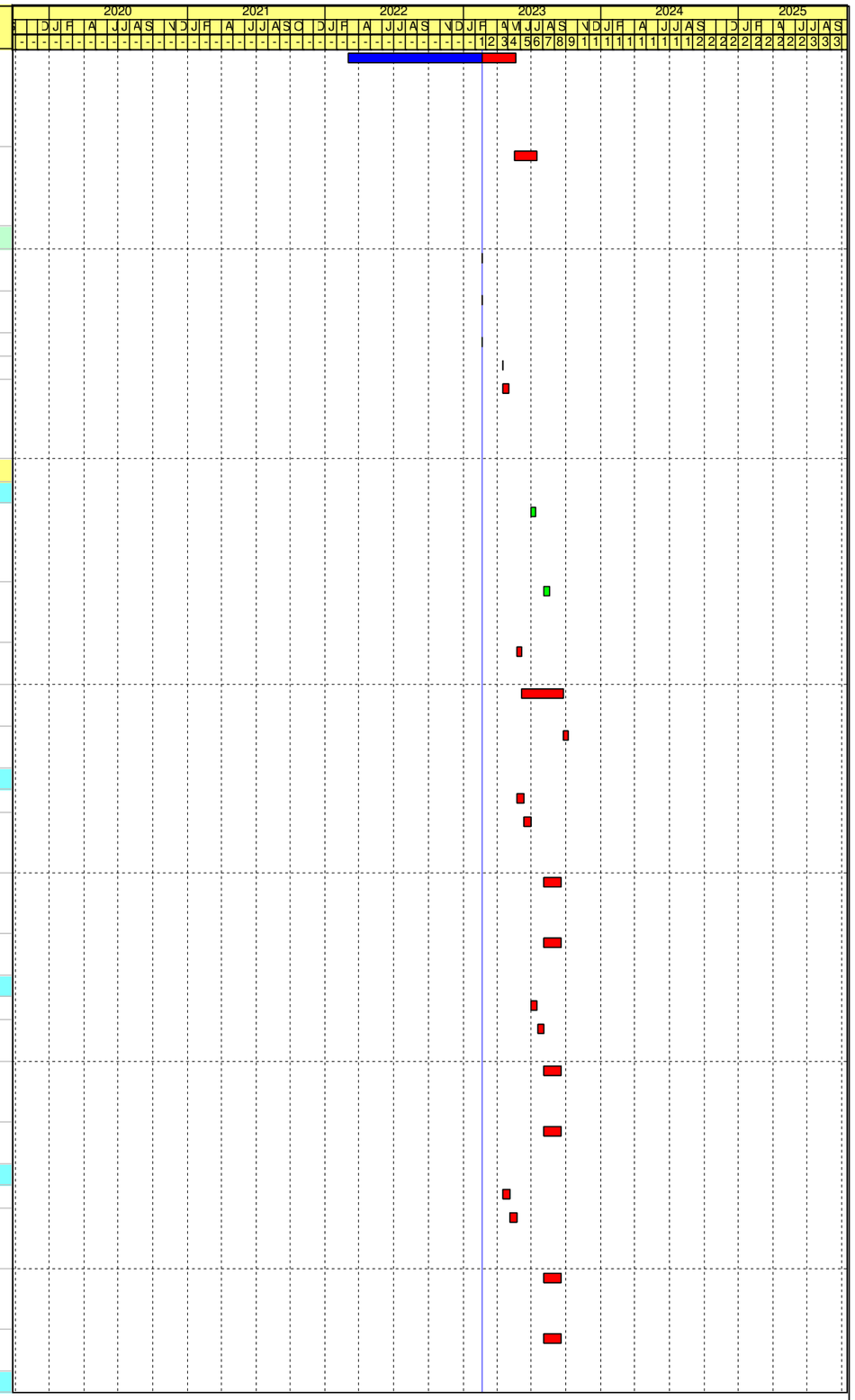
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5DIGP1010	Fabrication & Delivery of FRP Walkway / Cover	90	01-Mar-22 A	20-May-23	19-Sep-22	16-Dec-22	-155	S2P1020	S5DIGC1040, S5DIGC1050, S5DIGC1060, S5DIGC1070, S5DIGC1080
S5DIGP1020	Fabrication & Delivery of Pipeworks & Associated Valves	60	17-May-23	15-Jul-23	03-Oct-22	01-Dec-22	-226	S5P1010	S5DIGC1110, S5DIGC1150, S5DIGC1190, S5DIGC1250
Installation		310	21-Feb-23	27-Dec-23	03-Sep-22	16-Apr-25	476		
S5DIGC1000	Access to Sludge Digesters & Distribution Chamber (Impacted by EWN-0314)	1	21-Feb-23*	21-Feb-23	03-Sep-22	03-Sep-22	-171		S5DIGC1030
S5DIGC1010	Access to Sludge Digester No.1 & Distribution Chamber (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	03-Sep-22	03-Sep-22	-171		S5DIGC1030
S5DIGC1020	Access to Sludge Digesters - Remaining (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	02-Apr-25	02-Apr-25	771		S5DIGC1050
S5DIGC1025	Assume Actual Access Date	1	17-Apr-23*	17-Apr-23	03-Sep-22	03-Sep-22	-226		S5DIGC1030
S5DIGC1030	Mobilisation	14	18-Apr-23	01-May-23	04-Sep-22	17-Sep-22	-226	AD1080, S5DIGC1000, S5DIGC1010, S5DIGC1025	S5DIGC1210, S5DIGC1040
E&M Installation		240	17-Apr-23	12-Dec-23	18-Sep-22	16-Apr-25	491		
FRP Walkway / Cover Installation		138	23-May-23	07-Oct-23	17-Dec-22	16-Apr-25	557		
S5DIGC1040	Installation of Working Platform for Digester 1 (Roof)	14	29-Jun-23	12-Jul-23	11-Nov-23	24-Nov-23	135	AD1080, S5DIGP1010, S5DIGC1030, S5DIGC1100	SC51110, PL1210, PL1310
S5DIGC1050	Installation of Working Platform for Digester 3 (Roof)	14	04-Aug-23	17-Aug-23	03-Apr-25	16-Apr-25	608	S5DIGC1020, S5DIGC1140, S5DIGP1010	
S5DIGC1060	Installation of Working Platform for Digester 4 (Roof)	14	23-May-23	05-Jun-23	17-Dec-22	30-Dec-22	-157	S5DIGC1180, S5DIGP1010	S5DIGC1070
S5DIGC1070	Installation of Working Platform for Distribution Chamber & Overflow Chamber	110	06-Jun-23	23-Sep-23	31-Dec-22	19-Apr-23	-157	S5DIGC1060, S5DIGP1010	S5DIGC1080
S5DIGC1080	Installation of Working Platform for Digester 2 (Roof)	14	24-Sep-23	07-Oct-23	20-Apr-23	03-May-23	-157	S5DIGC1070, S5DIGP1010	S5DIGT1020
Sludge Digester 1		118	23-May-23	17-Sep-23	03-Jan-23	30-Apr-23	-140		
S5DIGC1090	Installation of Sludge Mixer (4 nos.)	19	23-May-23	10-Jun-23	03-Jan-23	21-Jan-23	-140	S5DIGC1180	S5DIGC1100
S5DIGC1100	Installation of Motor with Belt adjustment	18	11-Jun-23	28-Jun-23	22-Jan-23	08-Feb-23	-140	S5DIGC1090	S5DIGC1110, S5DIGC1130, S5DIGC1040
S5DIGC1110	Installation of Pipework, Valve, Inpsection Window, Telescopic Valve & Instruments	45	04-Aug-23	17-Sep-23	17-Mar-23	30-Apr-23	-140	S5DIGC1100, S5DIGP1020, S5DIGC1150	S5DIGC1120
S5DIGC1120	Installation of Electrical System	45	04-Aug-23	17-Sep-23	17-Mar-23	30-Apr-23	-140	S5DIGC1110, S5P1050	S5DIGT1010
Sludge Digester 3		81	29-Jun-23	17-Sep-23	09-Feb-23	30-Apr-23	-140		
S5DIGC1130	Installation of Sludge Mixer (4 nos.)	18	29-Jun-23	16-Jul-23	09-Feb-23	26-Feb-23	-140	S5DIGC1100	S5DIGC1140
S5DIGC1140	Installation of Motor with Belt adjustment	18	17-Jul-23	03-Aug-23	27-Feb-23	16-Mar-23	-140	S5DIGC1130	S5DIGC1150, S5DIGC1050
S5DIGC1150	Installation of Pipework, Valve, Inpsection Window, Telescopic Valve & Instruments	45	04-Aug-23	17-Sep-23	17-Mar-23	30-Apr-23	-140	S5DIGC1140, S5DIGP1020	S5DIGC1160, S5DIGC1110, S5DIGC1190
S5DIGC1160	Installation of Electrical System	45	04-Aug-23	17-Sep-23	17-Mar-23	30-Apr-23	-140	S5DIGC1150, S5P1050	S5DIGT1010
Sludge Digester 4		154	17-Apr-23	17-Sep-23	11-Nov-22	30-Apr-23	-140		
S5DIGC1170	Installation of Sludge Mixer (4 nos.)	18	17-Apr-23*	04-May-23	11-Nov-22	28-Nov-22	-157		S5DIGC1180
S5DIGC1180	Installation of Motor with Belt adjustment	18	05-May-23	22-May-23	29-Nov-22	16-Dec-22	-157	S5DIGC1170	S5DIGC1190, S5DIGC1090, S5DIGC1060
S5DIGC1190	Installation of Pipework, Valve, Inpsection Window, Telescopic Valve & Instruments	45	04-Aug-23	17-Sep-23	17-Mar-23	30-Apr-23	-140	S5DIGC1180, S5DIGP1020, S5DIGC1150	S5DIGC1200
S5DIGC1200	Installation of Electrical System	45	04-Aug-23	17-Sep-23	17-Mar-23	30-Apr-23	-140	S5DIGC1190, S5P1050	S5DIGT1010
Distribution Chamber		225	02-May-23	12-Dec-23	18-Sep-22	30-Apr-23	-226		



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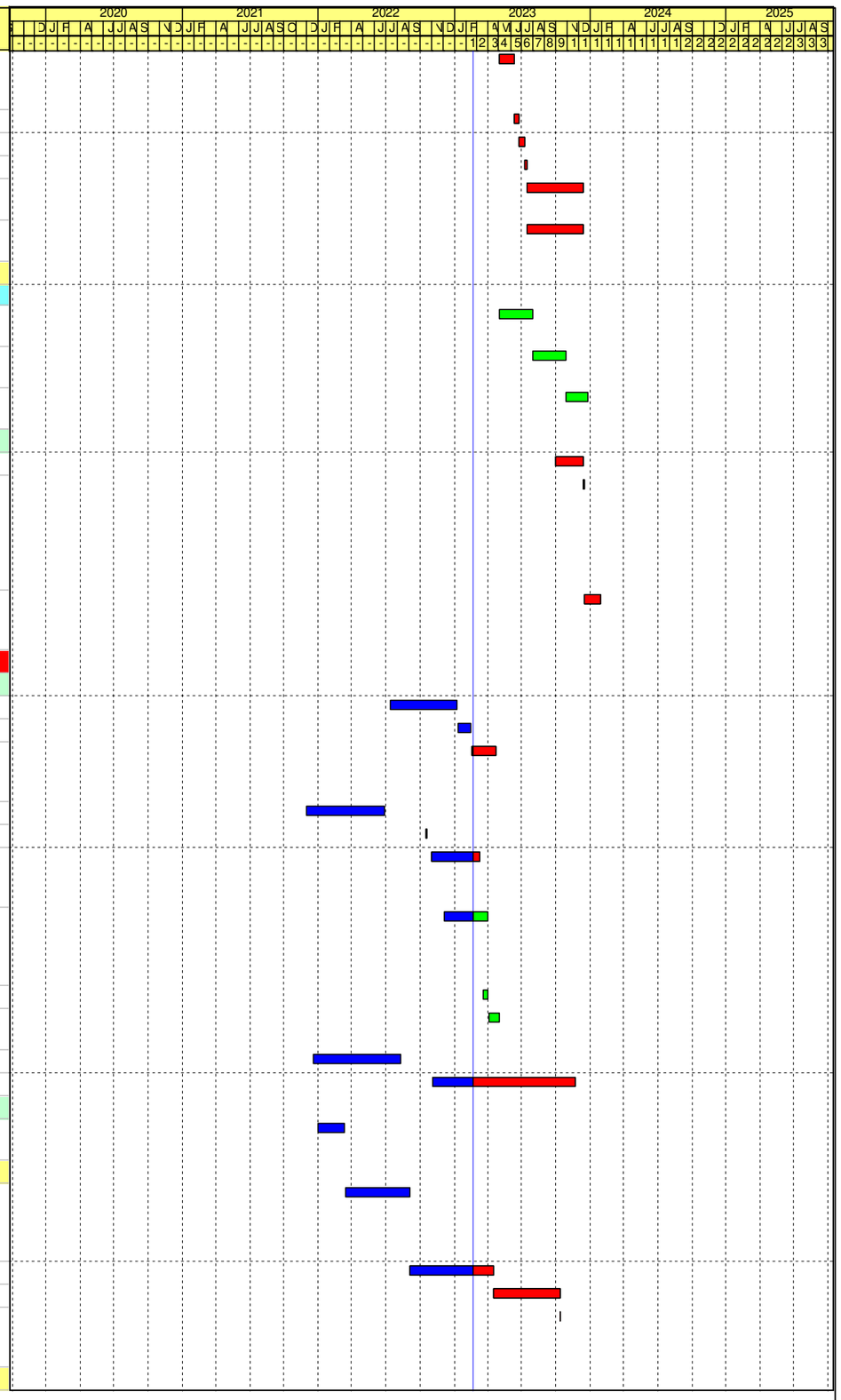
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5DIGC1210	Installation of Sludge Recirculation Pumps (5 nos.)	40	02-May-23	10-Jun-23	18-Sep-22	27-Oct-22	-226	AD1080, S5DIGP1000, S5DIGC1030	S5DIGC1220, S5DIGC1280
S5DIGC1220	Installation of Heat Exchanger (3 nos.)	14	11-Jun-23	24-Jun-23	28-Oct-22	10-Nov-22	-226	S5DIGC1210	S5DIGC1230
S5DIGC1230	Installation of Sludge Transfer Pump (2 nos.)	14	25-Jun-23	08-Jul-23	11-Nov-22	24-Nov-22	-226	S5DIGC1220	S5DIGC1240
S5DIGC1240	Installation of Vertical Mixer at Sludge Buffer Tank (2 nos.)	7	09-Jul-23	15-Jul-23	25-Nov-22	01-Dec-22	-226	S5DIGC1230	S5DIGC1250
S5DIGC1250	Installation of Pipework, Valve & Instruments	150	16-Jul-23	12-Dec-23	02-Dec-22	30-Apr-23	-226	S5DIGC1240, S5DIGP1020	S5DIGC1260, S5DIGT1000
S5DIGC1260	Installation of Electrical System	150	16-Jul-23	12-Dec-23	02-Dec-22	30-Apr-23	-226	S5DIGC1250, S5P1050	S5DIGT1010
BS Installation		240	02-May-23	27-Dec-23	24-Jun-23	18-Feb-24	53		
Distribution Chamber		240	02-May-23	27-Dec-23	24-Jun-23	18-Feb-24	53		
S5DIGC1280	Installation of FS System	90	02-May-23	30-Jul-23	24-Jun-23	21-Sep-23	53	S5DIGC1210	S5DIGC1290, S5S1220
S5DIGC1290	Installation of MVAC System	90	31-Jul-23	28-Oct-23	22-Sep-23	20-Dec-23	53	S5DIGC1280	S5DIGC1300, S5S1220
S5DIGC1300	Installation of Plumbing System	60	29-Oct-23	27-Dec-23	21-Dec-23	18-Feb-24	53	S5S1120, S5DIGC1290	S5S1160
Testing and Commissioning		123	29-Sep-23	29-Jan-24	18-Feb-23	17-Jun-23	-226		
S5DIGT1000	Pipe Pressure Test	75	29-Sep-23	12-Dec-23	18-Feb-23	03-May-23	-223	S5DIGC1250	S5DIGT1020
S5DIGT1010	Ready for Power Energisation	3	13-Dec-23	15-Dec-23	01-May-23	03-May-23	-226	S5DIGC1260, S5DIGC1200, S5DIGC1160, S5DIGC1120, S5WS2C1110, S5EXAC1030	S5DIGT1020
S5DIGT1020	SAT for Sludge Digestion System	45	16-Dec-23	29-Jan-24	04-May-23	17-Jun-23	-226	S5DIGC1080, S5DIGT1010, S5DIGT1000	S5T1080
Workshop No. 2		739	29-Nov-21 A	29-Jan-24	09-Aug-22	16-Apr-25	443		
Fabrication, FAT & Delivery of Major Plant & Materials		728	29-Nov-21 A	21-Nov-23	14-Sep-22	15-Oct-23	-37		
S5WS2P1000	Fabrication of 11kV to 380V Transfomers	123	14-Jul-22 A	09-Jan-23 A	14-Sep-22	14-Sep-22		S2P1110	S5WS2P1010
S5WS2P1010	FAT for 11kV to 380V Transfomers	37	10-Jan-23 A	15-Feb-23 A	14-Sep-22	14-Sep-22		S5WS2P1000	S5WS2P1020
S5WS2P1020	Delivery of 11kV to 380V Transfomers	28	16-Feb-23 A	22-Apr-23	14-Sep-22	13-Nov-22	-160	S5WS2P1010	S5CHPC1130, S5WS2C1070, S5WS2T1000
S5WS2P1060	Fabrication of 11 kV Switchboard	210	29-Nov-21 A	26-Jun-22 A	27-Oct-22	27-Oct-22		S2P1120	S5WS2P1070
S5WS2P1070	FAT for 11 kV Switchboard	14	18-Oct-22 A	21-Oct-22 A	27-Oct-22	27-Oct-22		S5WS2P1060	S5WS2P1080
S5WS2P1080	Delivery of 11kV Switchboard	90	01-Nov-22 A	10-Mar-23	27-Oct-22	13-Nov-22	-117	S5WS2P1070	S5WS2C1060, S5CHPC1140, S5WS2T1000
S5WS2P1090	Fabrication of LV Switchboard	120	04-Dec-22 A	02-Apr-23	06-Aug-23	15-Sep-23	166	S2P1130, S2D1250, S2D1190, S2D1270	S5WS2P1100
S5WS2P1100	FAT for LV Switchboard	14	20-Mar-23	02-Apr-23	02-Sep-23	15-Sep-23	166	S5WS2P1090	S5WS2P1110
S5WS2P1110	Delivery of LV Switchboard	30	03-Apr-23	02-May-23	16-Sep-23	15-Oct-23	166	S5WS2P1100	S5WS2C1080, S5WS2T1005
S5WS2P1120	Fabrication & Delivery of Lift	210	18-Dec-21 A	10-Aug-22 A	11-Sep-23	11-Sep-23			S5WS2C1190
S5WS2P1130	Fabrication, FAT & Delivery of SCADA System	383	04-Nov-22 A	21-Nov-23	17-Dec-22	16-Sep-23	-66		S5WS2C1180
Installation		739	31-Dec-21 A	29-Jan-24	09-Aug-22	16-Apr-25	443		
S5WS2C1000	Mobilisation	14	31-Dec-21 A	12-Mar-22 A	09-Aug-22	09-Aug-22		AD1120, S5S1030	S5WS2C1010, S5WS2C1050
CLP Substation		572	14-Mar-22 A	13-Oct-23	09-Aug-22	31-Mar-23	-196		
S5WS2C1010	BS Fitting Installation (at CLP Sub-station in Workshop No.2)	60	14-Mar-22 A	02-Sep-22 A	09-Aug-22	09-Aug-22		S5WS2C1000, AD1120	KD1060, S5WS2C1020, S5WS2C1050, KD1060-1
S5WS2C1020	Inspections, Rectification & H/O to CLP	60	03-Sep-22 A	15-Apr-23	09-Aug-22	01-Oct-22	-196	S5WS2C1010	S5WS2C1030
S5WS2C1030	E&M Installation of HV Transformer (By CLP)	180	16-Apr-23	12-Oct-23	02-Oct-22	30-Mar-23	-196	S5WS2C1020	S5WS2C1040
S5WS2C1040	Energisation (By CLP)	1	13-Oct-23	13-Oct-23	31-Mar-23	31-Mar-23	-196	S5WS2C1030, S5WS2C1060, S5S1000	S5TXRT1010
HV Switchroom / Transformer Room / LV Switchroom		571	11-Apr-22 A	14-Nov-23	04-Oct-22	16-Apr-25	519		



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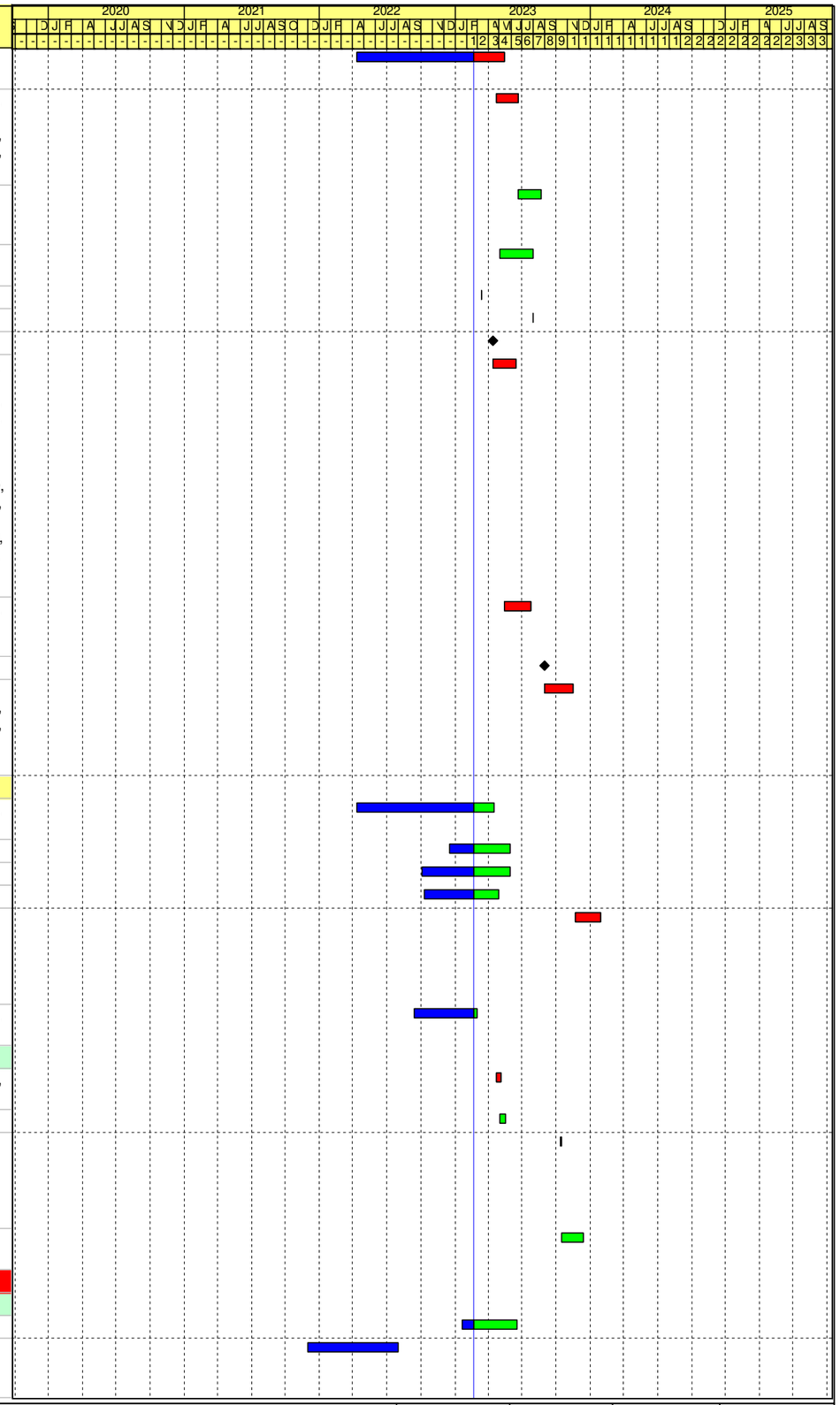
S5WS2C1050	BS Fitting Intallation	60	11-Apr-22 A	15-May-23	19-Nov-22	10-Feb-23	-94	S5WS2C1000, S5WS2C1010	S5WS2C1060
S5WS2C1060	HV Switchroom Installation	60	23-Apr-23	21-Jun-23	14-Nov-22	12-Jan-23	-160	S5WS2C1050, S5WS2P1080, S5WS2T1000	S5WS2C1130, S5TXRT1010, S5WS2C1040, S5WS2C1070, S5WS2T1010
S5WS2C1070	TX Room Installation	60	22-Jun-23	20-Aug-23	15-Nov-23	13-Jan-24	146	S5WS2C1060, S5WS2P1020, S5WS2T1000	S5WS2T1010
S5WS2C1080	LV Switchroom Installation	90	03-May-23	31-Jul-23	16-Oct-23	13-Jan-24	166	S5WS2P1110, S5WS2T1005	S5WS2T1010
S5WS2C1090	Access to Other Peripheral Systems (Impacted by EWN-0314)	1	14-Mar-23*	14-Mar-23	04-Oct-22	04-Oct-22	-161		S5WS2C1110
S5WS2C1100	Access to Other Peripheral Systems (Impacted by EWN-0314-1)	1	31-Jul-23*	31-Jul-23	16-Apr-25	16-Apr-25	625		
S5WS2C1105	Access to Stage 1 External Area	0	15-Apr-23*		05-Oct-22		-192		S5WS2C1110
S5WS2C1110	HV Cables Laying between Workshop No.2 & Tx Rm for CHP Bldg and Termination	60	15-Apr-23	13-Jun-23	05-Oct-22	03-Dec-22	-192	S5WS2C1090, S5WS2C1105	S5CHPT1020, S5DIGT1010, S5WS2C1120, S5WS2T1010, S5BIOT1000, S5THPT1000, S5H2ST1000, S5WGBT1000, S5DOUT1010, S5SPST1000, S5TCWT1000, S5FCDT1000, PL1210
S5WS2C1120	HV Cables Laying between Workshop No.2 & Tx Rm for Sludge Dewatering Bldg and Termination	70	15-May-23	23-Jul-23	04-Nov-22	12-Jan-23	-192	S5WS2C1110	S5WS2C1130, PL1210, S5SDBT1030
S5WS2C1125	Access to Stage 3 External Area	0	01-Sep-23*		13-Jan-23		-231		S5WS2C1130
S5WS2C1130	HV Cables Laying between Workshop No.2 & Tx Rm for UV System No.1 and Termination	75	01-Sep-23*	14-Nov-23	13-Jan-23	28-Mar-23	-231	S5WS2C1060, S5WS2C1120, S5WS2C1125	S5TXRT1010, S5PSWT1000, S5DOUT1000, S5SHPT1000, PL1210
Building Services		496	11-Apr-22 A	29-Jan-24	09-Jun-23	18-Feb-24	20		
S5WS2C1140	Installation of FS System	204	11-Apr-22 A	15-Apr-23	31-Aug-23	23-Oct-23	191	S5S1120	S5WS2C1150, S5S1130
S5WS2C1150	Installation of MVAC System	150	19-Dec-22 A	31-May-23	24-Sep-23	01-Jan-24	215	S5WS2C1140	S5S1220
S5WS2C1160	Installation of Electrical System	150	03-Oct-22 A	31-May-23	09-Jun-23	16-Sep-23	108		S5WS2C1180
S5WS2C1170	Installation of Plumbing System	90	10-Oct-22 A	29-Apr-23	13-Dec-23	18-Feb-24	295	S5S1120	S5S1160
S5WS2C1180	Installation of SCADA System	69	22-Nov-23	29-Jan-24	17-Sep-23	24-Nov-23	-66	S5WS2C1160, S5WS2P1130	S5T1200, S5T1000, S5T1010, S5S0990, PL1210
S5WS2C1190	Installation of Lift	120	13-Sep-22 A	28-Feb-23	11-Sep-23	18-Sep-23	202	S5WS2P1120	S5WS2T1020, S5SDBC1780
Testing and Commissioning		235	23-Apr-23	13-Dec-23	14-Nov-22	16-Mar-24	94		
S5WS2T1000	SAT for Transformer & Switchboard	14	23-Apr-23	06-May-23	14-Nov-22	27-Nov-22	-160	S5WS2P1080, S5WS2P1020	S5WS2C1060, S5WS2C1070
S5WS2T1005	SAT for LV Switchboard	14	03-May-23	16-May-23	16-Oct-23	29-Oct-23	166	S5WS2P1110	S5WS2C1080
S5WS2T1010	Ready for Power Energisation	3	12-Oct-23	14-Oct-23	14-Jan-24	16-Jan-24	94	S5WS2C1110, S5EXAC1030, S5WS2C1060, S5WS2C1080, S5WS2C1070	S5WS2T1020
S5WS2T1020	SAT for Lift	60	15-Oct-23	13-Dec-23	17-Jan-24	16-Mar-24	94	S5WS2C1190, S5WS2T1010	S5S1090
Biogas Storage		785	29-Nov-21 A	13-Feb-24	27-Oct-22	27-Oct-23	-109		
Fabrication, FAT & Delivery of Major Plant & Materials		577	29-Nov-21 A	18-Jun-23	27-Oct-22	02-Jul-23	14		
S5BIOP1000	Fabrication & Delivery of Biogas Booster and Transfer Pumps	149	22-Jan-23 A	18-Jun-23	07-Mar-23	02-Jul-23	14	S5P1000	S5BIOC1040
S5BIOP1010	Fabrication & Delivery of Biogas Storage	180	29-Nov-21 A	30-Jul-22 A	27-Oct-22	27-Oct-22		S2P1050, S2D1530	S5BIOC1020, S5BIOC1030, S5BIOC1040



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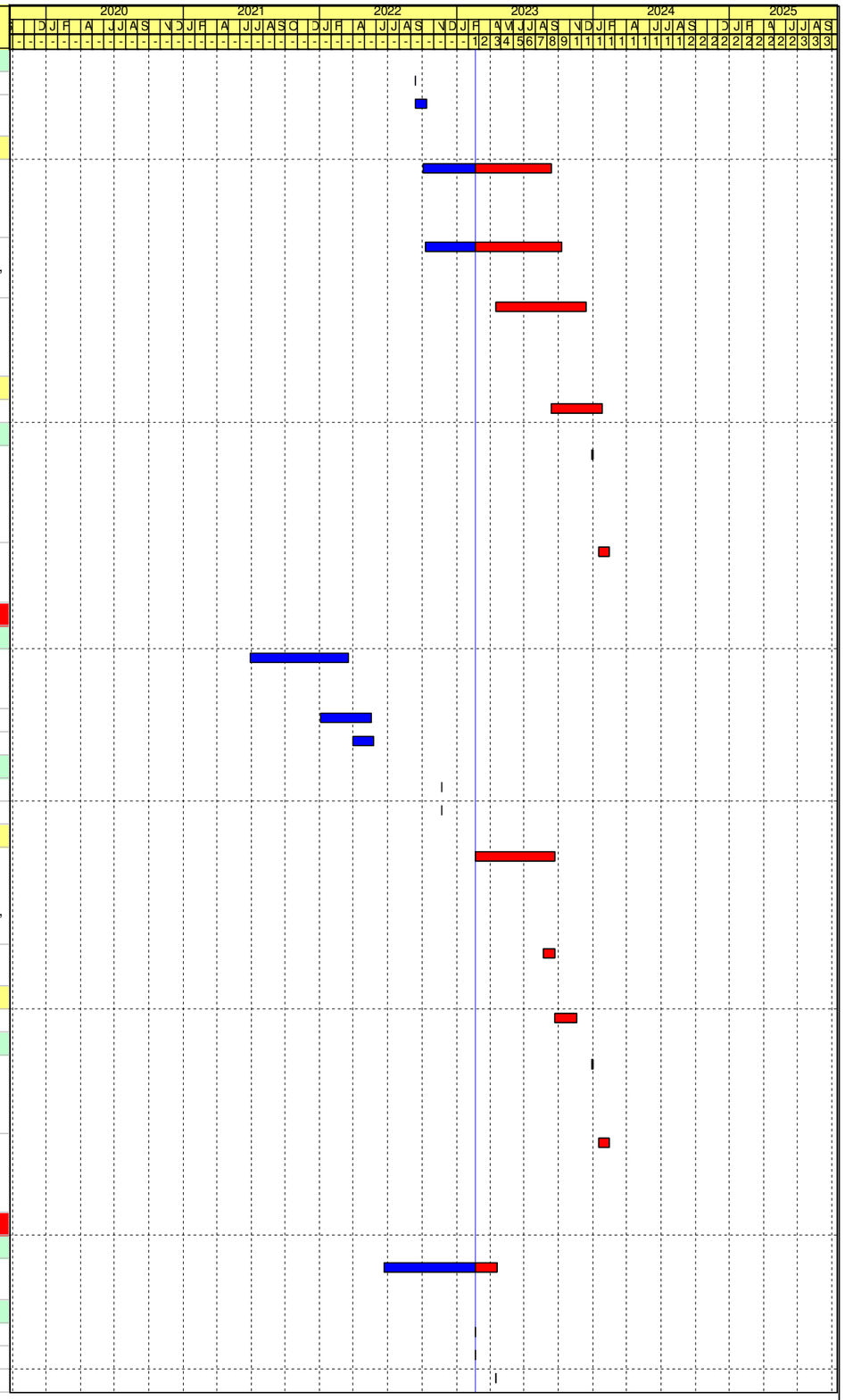
E&M Installation		492	13-Sep-22 A	25-Jan-24	27-Oct-22	27-Oct-23	-90		
S5BIOC1000	Access to Biogas Holding Tanks (Impacted by EWN-0314-1)	1	13-Sep-22 A	13-Sep-22 A	27-Oct-22	27-Oct-22			S5BIOC1010
S5BIOC1010	Mobilisation	30	13-Sep-22 A	14-Oct-22 A	27-Oct-22	27-Oct-22		AD1100, S5BIOC1000	S5BIOC1020
Mechanical Installation		357	03-Oct-22 A	13-Dec-23	27-Oct-22	02-Jul-23	-164		
S5BIOC1020	Mechanical Installation of Biogas Storage Tank 3	240	03-Oct-22 A	12-Sep-23	27-Oct-22	17-May-23	-118	AD1100, S5BIOP1010, S5S1060, S5BIOC1010	S5BIOC1030, S5BIOT1000, S5BIOC1060
S5BIOC1030	Mechanical Installation of Biogas Storage Tank 2	240	10-Oct-22 A	10-Oct-23	27-Oct-22	14-Jun-23	-118	AD1100, S5BIOC1020, S5BIOP1010	S5BIOC1040, S5WGBC1020, S5BIOT1000
S5BIOC1040	Mechanical Installation of Biogas Storage Tank 1	242	16-Apr-23*	13-Dec-23	03-Nov-22	02-Jul-23	-164	AD1100, S5BIOC1030, S5BIOP1010, S5BIOP1000	S5BIOT1010, PL1210
Electrical Installation		135	13-Sep-23	25-Jan-24	15-Jun-23	27-Oct-23	-90		
S5BIOC1060	Electrical Installation for Biogas Holding Tanks	135	13-Sep-23	25-Jan-24	15-Jun-23	27-Oct-23	-90	S5BIOC1020	S5BIOT1000
Testing and Commissioning		46	30-Dec-23	13-Feb-24	15-Jun-23	17-Jul-23	-211		
S5BIOT1000	Ready for Power Energisation	3	30-Dec-23	01-Jan-24	15-Jun-23	17-Jun-23	-198	S5BIOC1030, S5BIOC1020, S5WS2C1110, S5EXAC1050, S5BIOC1060	S5BIOT1010
S5BIOT1010	SAT for Biogas Storage System	30	15-Jan-24	13-Feb-24	18-Jun-23	17-Jul-23	-211	S5BIOC1040, S5CHPT1020, S5BIOT1000	S5T1070
THP Area		918	29-Jun-21 A	13-Feb-24	03-Aug-22	02-Jun-23	-256		
Fabrication, FAT & Delivery of Major Plant & Materials		315	29-Jun-21 A	23-May-22 A	03-Aug-22	03-Aug-22			
S5THPP1000	Fabrication of THP System	300	29-Jun-21 A	18-Mar-22 A	03-Aug-22	03-Aug-22		S2P1040, S2D1410, S2D1370	S5THPP1010
S5THPP1010	FAT for THP System	14	03-Jan-22 A	17-May-22 A	03-Aug-22	03-Aug-22		S5THPP1000	S5THPP1020
S5THPP1020	Delivery of THP System	60	29-Mar-22 A	23-May-22 A	03-Aug-22	03-Aug-22		S5THPP1010	S5THPC1020
E&M Installation		334	22-Nov-22 A	19-Nov-23	03-Aug-22	03-May-23	-200		
S5THPC1000	Access to THP Area (Impacted by EWN-0314)	1	22-Nov-22 A	22-Nov-22 A	03-Aug-22	03-Aug-22			S5THPC1020
S5THPC1010	Access to THP Area (Impacted by EWN-0314-1)	1	22-Nov-22 A	22-Nov-22 A	03-Aug-22	03-Aug-22			S5THPC1020
Mechanical Installation		213	20-Feb-23 A	20-Sep-23	03-Aug-22	03-May-23	-140		
S5THPC1020	Mechanical Installation of THP System	213	20-Feb-23 A	20-Sep-23	03-Aug-22	01-Mar-23	-203	AD1100, S5THPP1020, S5S1020, S5THPC1000, S5THPC1010	S5THPC1030, S5THPT1010, S5THPC1050, S5WGBC1020, S5THPT1000
S5THPC1030	Mechanical Installation of Thickened Sludge Feed Pipe to THP System	30	22-Aug-23*	20-Sep-23	04-Apr-23	03-May-23	-140	S5THPC1020	S5THPT1010, PL1210
Electrical Installation		60	21-Sep-23	19-Nov-23	02-Mar-23	30-Apr-23	-203		
S5THPC1050	Electrical Installation for THP Facilities	60	21-Sep-23	19-Nov-23	02-Mar-23	30-Apr-23	-203	S5THPC1020	S5THPT1000
Testing and Commissioning		46	30-Dec-23	13-Feb-24	01-May-23	02-Jun-23	-256		
S5THPT1000	Ready for Power Energisation	3	30-Dec-23	01-Jan-24	01-May-23	03-May-23	-243	S5THPC1020, S5WS2C1110, S5EXAC1050, S5THPC1050	S5THPT1010
S5THPT1010	SAT of THP System	30	15-Jan-24	13-Feb-24	04-May-23	02-Jun-23	-256	S5THPC1020, S5THPC1030, S5CHPT1020, S5THPT1000	S5T1050
H2S Removal Area		529	23-Jun-22 A	31-Jan-24	13-Dec-22	17-Jun-23	-228		
Fabrication, FAT & Delivery of Major Plant & Materials		150	23-Jun-22 A	21-Apr-23	13-Dec-22	10-Feb-23	-70		
S5H2SP1000	Fabrication & Delivery of H2S Removal System	150	23-Jun-22 A	21-Apr-23	13-Dec-22	10-Feb-23	-70	S2P1060, S2D1530	S5H2SC1020
Installation		154	21-Feb-23	24-Jul-23	24-Feb-23	15-May-23	-70		
S5H2SC1000	Access to H2S Removal Area (Impacted by EWN-0314)	1	21-Feb-23*	21-Feb-23	24-Feb-23	24-Feb-23	3		S5H2SC1020
S5H2SC1010	Access to H2S Removal Area (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	24-Feb-23	24-Feb-23	3		S5H2SC1020
S5H2SC1015	Assume Actual Access Date	1	17-Apr-23*	17-Apr-23	24-Feb-23	24-Feb-23	-52		S5H2SC1020



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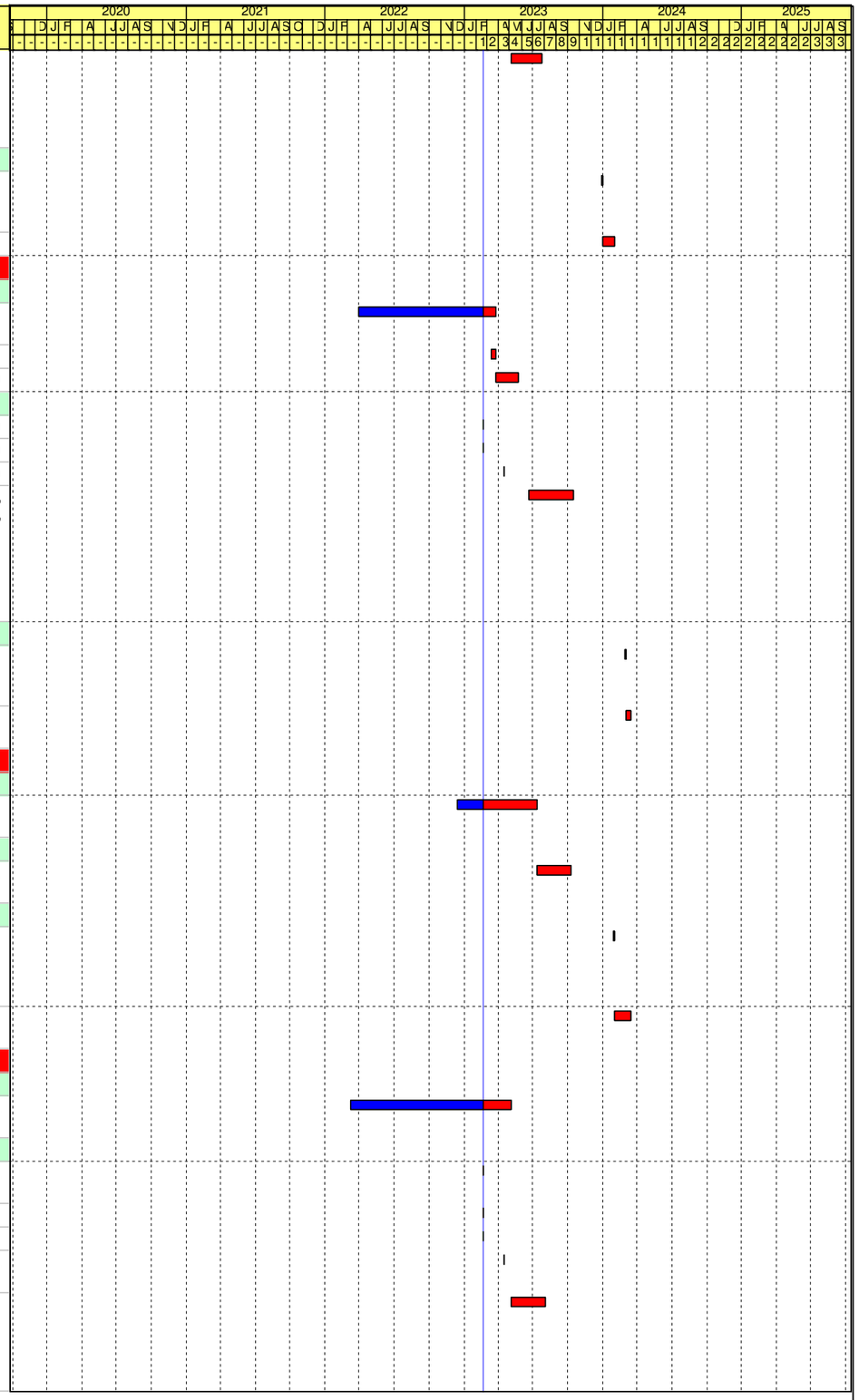
Remaining Work
Critical Activity
Milestone
Actual Progress

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 Feb 2023

Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5H2SC1020	E&M Installation of H2S Removal System	80	06-May-23	24-Jul-23	25-Feb-23	15-May-23	-70	AD1100, S5H2SP1000, S5H2SC1000, S5H2SC1010, S5H2SC1015	S5H2ST1000, PL1210
Testing and Commissioning		33	30-Dec-23	31-Jan-24	16-May-23	17-Jun-23	-228		
S5H2ST1000	Ready for Power Energisation	3	30-Dec-23	01-Jan-24	16-May-23	18-May-23	-228	S5H2SC1020, S5WS2C1110, S5EXAC1050	S5H2ST1010
S5H2ST1010	SAT of H2S Removal System	30	02-Jan-24	31-Jan-24	19-May-23	17-Jun-23	-228	S5H2ST1000	S5T1080
Waste Gas Burning Area		635	29-Mar-22 A	16-Mar-24	13-Dec-22	01-Aug-23	-228		
Fabrication, FAT & Delivery of Major Plant & Materials		339	29-Mar-22 A	25-May-23	13-Dec-22	16-Mar-23	-70		
S5WGBP1000	Fabrication of Waste Gas Burning System	210	29-Mar-22 A	26-Mar-23	13-Dec-22	15-Jan-23	-70	S2P1080, S2D1650	S5WGBP1010
S5WGBP1010	FAT for Waste Gas Burning System	14	13-Mar-23	26-Mar-23	02-Jan-23	15-Jan-23	-70	S5WGBP1000	S5WGBP1020
S5WGBP1020	Delivery of Waste Gas Burning System	60	27-Mar-23	25-May-23	16-Jan-23	16-Mar-23	-70	S5WGBP1010	S5WGBC1020
Installation		239	21-Feb-23	17-Oct-23	16-Mar-23	14-Jul-23	-95		
S5WGBC1000	Access to Waste Gas Burning Area (Impacted by EWN-0314)	1	21-Feb-23*	21-Feb-23	16-Mar-23	16-Mar-23	23		S5WGBC1020
S5WGBC1010	Access to Waste Gas Burning Area (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	16-Mar-23	16-Mar-23	23		S5WGBC1020
S5WGBC1015	Assume Actual Access Date	1	17-Apr-23*	17-Apr-23	16-Mar-23	16-Mar-23	-32		S5WGBC1020
S5WGBC1020	E&M Installation of Waste Gas Burning System	120	20-Jun-23	17-Oct-23	17-Mar-23	14-Jul-23	-95	AD1100, S5WGBP1020, S5BIOC1030, S5THPC1020, S5WGBC1000, S5WGBC1010, S5WGBC1015	S5WGBT1010, S5WGBT1000, PL1210
Testing and Commissioning		18	28-Feb-24	16-Mar-24	15-Jul-23	01-Aug-23	-228		
S5WGBT1000	Ready for Power Energisation	3	28-Feb-24	01-Mar-24	15-Jul-23	17-Jul-23	-228	S5WGBC1020, S5WS2C1110, S5EXAC1090	S5WGBT1010
S5WGBT1010	SAT for Gas Burning System	15	02-Mar-24	16-Mar-24	18-Jul-23	01-Aug-23	-228	S5WGBC1020, S5WGBT1000	S5T1090
Plant Service Water Area		390	15-Dec-22 A	16-Mar-24	12-Aug-22	18-May-23	-303		
Fabrication, FAT & Delivery of Major Plant & Materials		210	15-Dec-22 A	12-Jul-23	12-Aug-22	31-Dec-22	-193		
S5PSWP1000	Fabrication & Delivery of Plant Service Water System	210	15-Dec-22 A	12-Jul-23	12-Aug-22	31-Dec-22	-193	S2P1090, S2D1690	S5PSWC1000
Installation		90	13-Jul-23	10-Oct-23	01-Jan-23	31-Mar-23	-193		
S5PSWC1000	E&M Installation of Plant Service Water System	90	13-Jul-23	10-Oct-23	01-Jan-23	31-Mar-23	-193	AD1100, S5PSWP1000	S5PSWT1000, PL1210
Testing and Commissioning		48	29-Jan-24	16-Mar-24	01-Apr-23	18-May-23	-303		
S5PSWT1000	Ready for Power Energisation	3	29-Jan-24	31-Jan-24	01-Apr-23	03-Apr-23	-303	S5PSWC1000, S5WS2C1130, S5EXAC1080, S5TXRT1010	S5PSWT1010
S5PSWT1010	SAT & System Commissioning Tests for Plant Services Water System	45	01-Feb-24	16-Mar-24	04-Apr-23	18-May-23	-303	S5PSWT1000, S5UVPC1000	S5T1060
DO Area		666	10-Mar-22 A	16-Mar-24	18-Nov-22	17-Jul-23	-243		
Fabrication, FAT & Delivery of Major Plant & Materials		150	10-Mar-22 A	05-May-23	18-Nov-22	30-Jan-23	-95		
S5DOUP1000	Fabrication & Delivery of DO System	150	10-Mar-22 A	05-May-23	18-Nov-22	30-Jan-23	-95	S2P1150, S2D1930	S5DOUC1030, S5DOUC1040
Installation		164	21-Feb-23	03-Aug-23	30-Jan-23	30-May-23	-65		
S5DOUC1000	Access to DO Area (Impacted by EWN-0314)	1	21-Feb-23*	21-Feb-23	30-Jan-23	30-Jan-23	-22		S5DOUC1030, S5DOUC1040
S5DOUC1010	Access to DO Area No.11 (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	30-Jan-23	30-Jan-23	-22		S5DOUC1030
S5DOUC1020	Access to DO Area No.12 (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	01-Mar-23	01-Mar-23	8		S5DOUC1040
S5DOUC1025	Assume Actual Access Date	1	17-Apr-23*	17-Apr-23	30-Jan-23	30-Jan-23	-77		S5DOUC1030, S5DOUC1040
S5DOUC1030	E&M Installation of DO System No.11	90	06-May-23	03-Aug-23	31-Jan-23	30-Apr-23	-95	AD1100, S5DOUP1000, S5DOUC1000, S5DOUC1010, S5DOUC1025	S5DOUT1000



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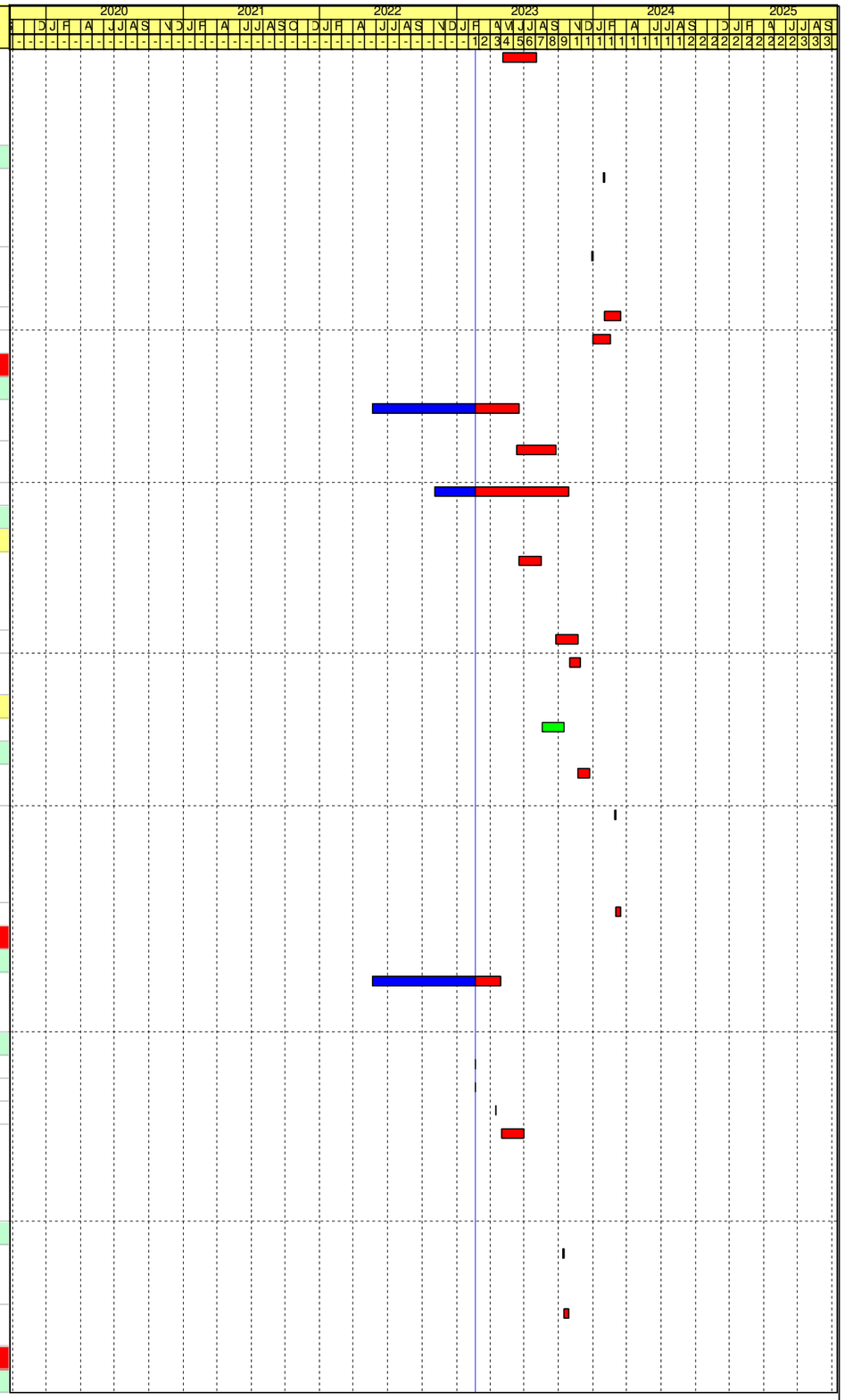
Remaining Work
Critical Activity
Milestone
Actual Progress

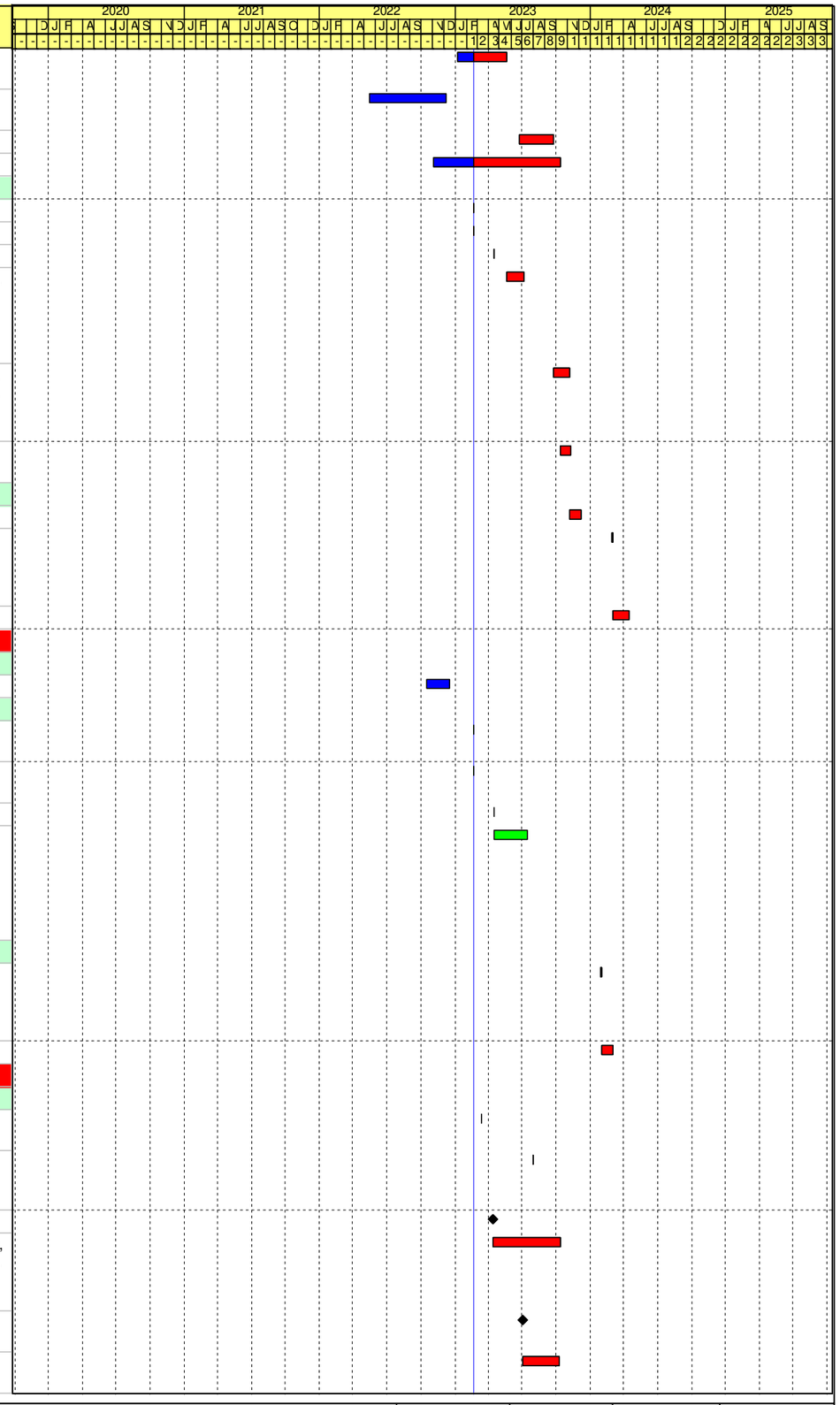
Contract No. DE/2018/03
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities
Revised Programme - as at 20 Feb 2023

Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5DOUC1040	E&M Installation of DO System No.12	90	06-May-23	03-Aug-23	02-Mar-23	30-May-23	-65	AD1100, S5DOUP1000, S5DOUC1000, S5DOUC1020, S5DOUC1025	S5DOUT1010, PL1210
Testing and Commissioning		78	30-Dec-23	16-Mar-24	01-May-23	17-Jul-23	-243		
S5DOUT1000	Ready for Power Energisation of DO No.11	3	29-Jan-24	31-Jan-24	01-May-23	03-May-23	-273	S5DOUC1030, S5WS2C1130, S5EXAC1080, S5TXRT1010	S5DOUT1020
S5DOUT1010	Ready for Power Energisation of DO No.12	3	30-Dec-23	01-Jan-24	31-May-23	02-Jun-23	-213	S5DOUC1040, S5WS2C1110, S5EXAC1050	S5DOUT1030
S5DOUT1020	SAT & System Commissioning Tests for DO System No.11	45	01-Feb-24	16-Mar-24	04-May-23	17-Jun-23	-273	S5DOUT1000	S5T1060
S5DOUT1030	SAT & System Commissioning Tests for DO System No.12	45	02-Jan-24	15-Feb-24	03-Jun-23	17-Jul-23	-213	S5DOUT1010	S5T1080
Sewage Pump Station		635	23-May-22 A	16-Mar-24	18-Nov-22	18-Feb-24	-27		
Fabrication, FAT & Delivery of Major Plant & Materials		543	23-May-22 A	29-Oct-23	18-Nov-22	28-Jul-23	-93		
S5SPSP1000	Fabrication & Delivery of Sewage Pump	150	23-May-22 A	17-Jun-23	05-Dec-22	31-Mar-23	-78	S2P1180, S2D1940	S5SPSC1000
S5SPSP1010	Fabrication & Delivery of LV Switchboard	104	12-Jun-23*	23-Sep-23	18-Nov-22	01-Mar-23	-206		S5SPSC1001, S5SPST0990
S5SPSP1020	Delivery of Control & Monitoring System / SCADA System	360	04-Nov-22 A	29-Oct-23	20-Nov-22	28-Jul-23	-93		S5SPSC1010
Installation		164	18-Jun-23	28-Nov-23	02-Mar-23	18-Feb-24	82		
E&M Installation		164	18-Jun-23	28-Nov-23	02-Mar-23	27-Aug-23	-93		
S5SPSC1000	E&M Installation of Sewage Pump	60	18-Jun-23	16-Aug-23	01-Apr-23	30-May-23	-78	AD1100, S5SPSP1000	S5SPSC1020, S5SPST1000, PL1210, S5SPSC1010
S5SPSC1001	LV Switchboard Installation	60	24-Sep-23	22-Nov-23	02-Mar-23	30-Apr-23	-206	S5SPSP1010	S5SPST0990
S5SPSC1010	Installation of SCADA System / Control Monitoring System	30	30-Oct-23	28-Nov-23	29-Jul-23	27-Aug-23	-93	S5SPSP1020, S5SPSC1000	S5T1000, S5T1010
BS Installation		60	17-Aug-23	15-Oct-23	21-Dec-23	18-Feb-24	126		
S5SPSC1020	BS Installation for Sewage Pumping Station	60	17-Aug-23	15-Oct-23	21-Dec-23	18-Feb-24	126	S5SPSC1000	S5S1160
Testing and Commissioning		115	23-Nov-23	16-Mar-24	01-May-23	17-Jun-23	-273		
S5SPST0990	SAT of Switchboard	30	23-Nov-23	22-Dec-23	01-May-23	30-May-23	-206	S5SPSP1010, S5SPSC1001	S5SPST1000
S5SPST1000	Ready for Power Energisation	3	28-Feb-24	01-Mar-24	31-May-23	02-Jun-23	-273	S5SPSC1000, S5WS2C1110, S5SPST0990, S5EXAC1090, S5EXAC1070	S5SPST1010
S5SPST1010	SAT & System Commissioning Tests for Sewage Pumping Station	15	02-Mar-24	16-Mar-24	03-Jun-23	17-Jun-23	-273	S5SPST1000	S5T1060
THP Cooling Water Transfer Pumping Station		496	23-May-22 A	29-Oct-23	07-Jan-23	02-Jun-23	-149		
Fabrication, FAT & Delivery of Major Plant & Materials		150	23-May-22 A	30-Apr-23	07-Jan-23	16-Mar-23	-45		
S5TCWP1000	Fabrication & Delivery of THP Cooling Pump	150	23-May-22 A	30-Apr-23	07-Jan-23	16-Mar-23	-45	S2P1210, S2D1970, S2D1370	S5TCWC1020
Installation		129	21-Feb-23	29-Jun-23	16-Mar-23	15-May-23	-45		
S5TCWC1000	Access to THP CW Transfer Pumping Station (Impacted by EWN-0314)	1	21-Feb-23*	21-Feb-23	16-Mar-23	16-Mar-23	23		S5TCWC1020
S5TCWC1010	Access to THP CW Transfer Pumping Station (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	16-Mar-23	16-Mar-23	23		S5TCWC1020
S5TCWC1015	Assume Actual Access Date	1	17-Apr-23*	17-Apr-23	16-Mar-23	16-Mar-23	-32		S5TCWC1020
S5TCWC1020	E&M Installation of THP Cooling Pump	60	01-May-23	29-Jun-23	17-Mar-23	15-May-23	-45	AD1100, S5TCWP1000, S5TCWC1000, S5TCWC1010, S5TCWC1015	S5TCWT1000, PL1210
Testing and Commissioning		18	12-Oct-23	29-Oct-23	16-May-23	02-Jun-23	-149		
S5TCWT1000	Ready for Power Energisation	3	12-Oct-23	14-Oct-23	16-May-23	18-May-23	-149	S5TCWC1020, S5WS2C1110, S5EXAC1030	S5TCWT1010
S5TCWT1010	SAT & System Commissioning Tests for THP Cooling Water Pumping System	15	15-Oct-23	29-Oct-23	19-May-23	02-Jun-23	-149	S5TCWT1000	S5T1050
Ferric Chloride Dosing Facility		606	14-May-22 A	15-Apr-24	18-Oct-22	27-Aug-23	-232		
Fabrication, FAT & Delivery of Major Plant & Materials		446	14-May-22 A	11-Oct-23	18-Oct-22	28-Jul-23	-75		



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5FCDP1000	Fabrication & Delivery of Ferric Chloride Storage Tank	90	09-Jan-23 A	21-May-23	18-Oct-22	15-Jan-23	-126	S5P1030, S2D1980	S5FCDC1020
S5FCDP1010	Fabrication & Delivery of Ferric Chloride Dosing Pump	150	14-May-22 A	09-Dec-22 A	15-Feb-23	15-Feb-23		S5P1040, S2D1980	S5FCDC1030
S5FCDP1020	Fabrication & Delivery of LV Switchboard	93	23-Jun-23*	23-Sep-23	14-Nov-22	14-Feb-23	-221		S5FCDC1030
S5FCDP1030	Delivery of Control & Monitoring System / SCADA System	311	04-Nov-22 A	11-Oct-23	08-Dec-22	28-Jul-23	-75		S5FCDP1040
Installation		263	21-Feb-23	10-Nov-23	15-Jan-23	27-Aug-23	-75		
S5FCDC1000	Access to Ferric Chloride Dosing Facility (Impacted by EWN-0314)	1	21-Feb-23*	21-Feb-23	15-Jan-23	15-Jan-23	-37		S5FCDC1020
S5FCDC1010	Access to Ferric Chloride Dosing Facility (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	15-Jan-23	15-Jan-23	-37		S5FCDC1020
S5FCDC1015	Assume Actual Access Date	1	17-Apr-23*	17-Apr-23	15-Jan-23	15-Jan-23	-92		S5FCDC1020
S5FCDC1020	E&M Installation of Ferric Chloride Storage Tank	45	22-May-23	05-Jul-23	16-Jan-23	01-Mar-23	-126	AD1100, S5FCDP1000, S5FCDC1000, S5FCDC1010, S5FCDC1015	S5FCDC1030, S5S1280
S5FCDC1030	E&M Installation of Ferric Chloride Dosing Pump	45	24-Sep-23	07-Nov-23	15-Feb-23	31-Mar-23	-221	AD1100, S5FCDC1020, S5FCDP1010, S5FCDP1020	S5FCDT1000, S5FCDT0990, PL1210, S5FCDP1040
S5FCDP1040	Installation of SCADA System / Control Monitoring System	30	12-Oct-23	10-Nov-23	29-Jul-23	27-Aug-23	-75	S5FCDP1030, S5FCDC1030	S5T1000, S5T1010
Testing and Commissioning		160	08-Nov-23	15-Apr-24	01-Apr-23	17-Jun-23	-303		
S5FCDT0990	SAT of Switchboard	30	08-Nov-23	07-Dec-23	01-Apr-23	30-Apr-23	-221	S5FCDC1030	S5FCDT1000
S5FCDT1000	Ready for Power Energisation	3	28-Feb-24	01-Mar-24	01-May-23	03-May-23	-303	S5FCDC1030, S5WS2C1110, S5FCDT0990, S5EXAC1090	S5FCDT1010
S5FCDT1010	SAT & System Commissioning Tests for FeCl3 Dosing Facility	45	02-Mar-24	15-Apr-24	04-May-23	17-Jun-23	-303	S5FCDT1000	S5T1080
Fire Hydrant and Booster Pump Room		437	18-Oct-22 A	01-Mar-24	25-Jul-23	01-Jan-24	-60		
Fabrication, FAT & Delivery of Major Plant & Materials		60	18-Oct-22 A	16-Dec-22 A	26-Jul-23	26-Jul-23			
S5SHPP1000	Fabrication & Delivery of Fire Hydrant and Booster Pump	60	18-Oct-22 A	16-Dec-22 A	26-Jul-23	26-Jul-23			S5SHPC1020
Installation		146	21-Feb-23	16-Jul-23	25-Jul-23	23-Oct-23	99		
S5SHPC1000	Access to Fire Hydrant and Booster Pump Room (Impacted by EWN-0314)	1	21-Feb-23*	21-Feb-23	25-Jul-23	25-Jul-23	154		S5SHPC1020
S5SHPC1010	Access to Fire Hydrant and Booster Pump Room (Impacted by EWN-0314-1)	1	21-Feb-23*	21-Feb-23	25-Jul-23	25-Jul-23	154		S5SHPC1020
S5SHPC1015	Assume Actual Access Date	1	17-Apr-23*	17-Apr-23	25-Jul-23	25-Jul-23	99		S5SHPC1020
S5SHPC1020	Fire Hydrant and Booster Pump Room Installation	90	18-Apr-23	16-Jul-23	26-Jul-23	23-Oct-23	99	S5S1120, AD1100, S5SHPC1000, S5SHPC1010, S5SHPP1000, S5SHPC1015	S5S1130, S5SHPT1000, PL1210
Testing and Commissioning		33	29-Jan-24	01-Mar-24	30-Nov-23	01-Jan-24	-60		
S5SHPT1000	Ready for Power Energisation	3	29-Jan-24	31-Jan-24	30-Nov-23	02-Dec-23	-60	S5SHPC1020, S5WS2C1130, S5EXAC1080, S5TXRT1010	S5SHPT1010
S5SHPT1010	SAT for Fire Hydrant and Booster Pump	30	01-Feb-24	01-Mar-24	03-Dec-23	01-Jan-24	-60	S5SHPT1000	S5S1220
External Area		351	14-Mar-23	27-Feb-24	02-Nov-22	24-Nov-23	-95		
Installation		351	14-Mar-23	27-Feb-24	02-Nov-22	24-Nov-23	-95		
S5EXAC1000	Access to Other Peripheral Systems (Impacted by EWN-0314)	1	14-Mar-23*	14-Mar-23	28-May-23	28-May-23	75		S5EXAC1100, S5EXAC1110
S5EXAC1010	Access to Other Peripheral Systems (Impacted by EWN-0314-1)	1	31-Jul-23*	31-Jul-23	17-Feb-23	17-Feb-23	-164		S5EXAC1100, S5EXAC1110, S5EXAC1030
S5EXAC1020	Access to Stage 1 External Area	0	15-Apr-23*		02-Nov-22		-164		S5EXAC1030
S5EXAC1030	LV Cable Laying from CHP to Sludge Digestor, Workshop no.2 and THP CW transfer PS (120 days) & Termination (60 days)	180	15-Apr-23	11-Oct-23	02-Nov-22	30-Apr-23	-164	S5EXAC1010, S5P1050, S5EXAC1020	S5TCWT1000, S5WS2T1010, S5DIGT1010, PL1210
S5EXAC1040	Access to Stage 2 External Area	0	03-Jul-23*		02-Nov-22		-243		S5EXAC1050, S5EXAC1045
S5EXAC1045	E&M Installation of Pipe Trench No.1, No.2 (Duration assumed no interface work)	100	03-Jul-23	10-Oct-23	23-Feb-23	02-Jun-23	-130	AD1100, S5EXAC1040	S5T1050, PL1210



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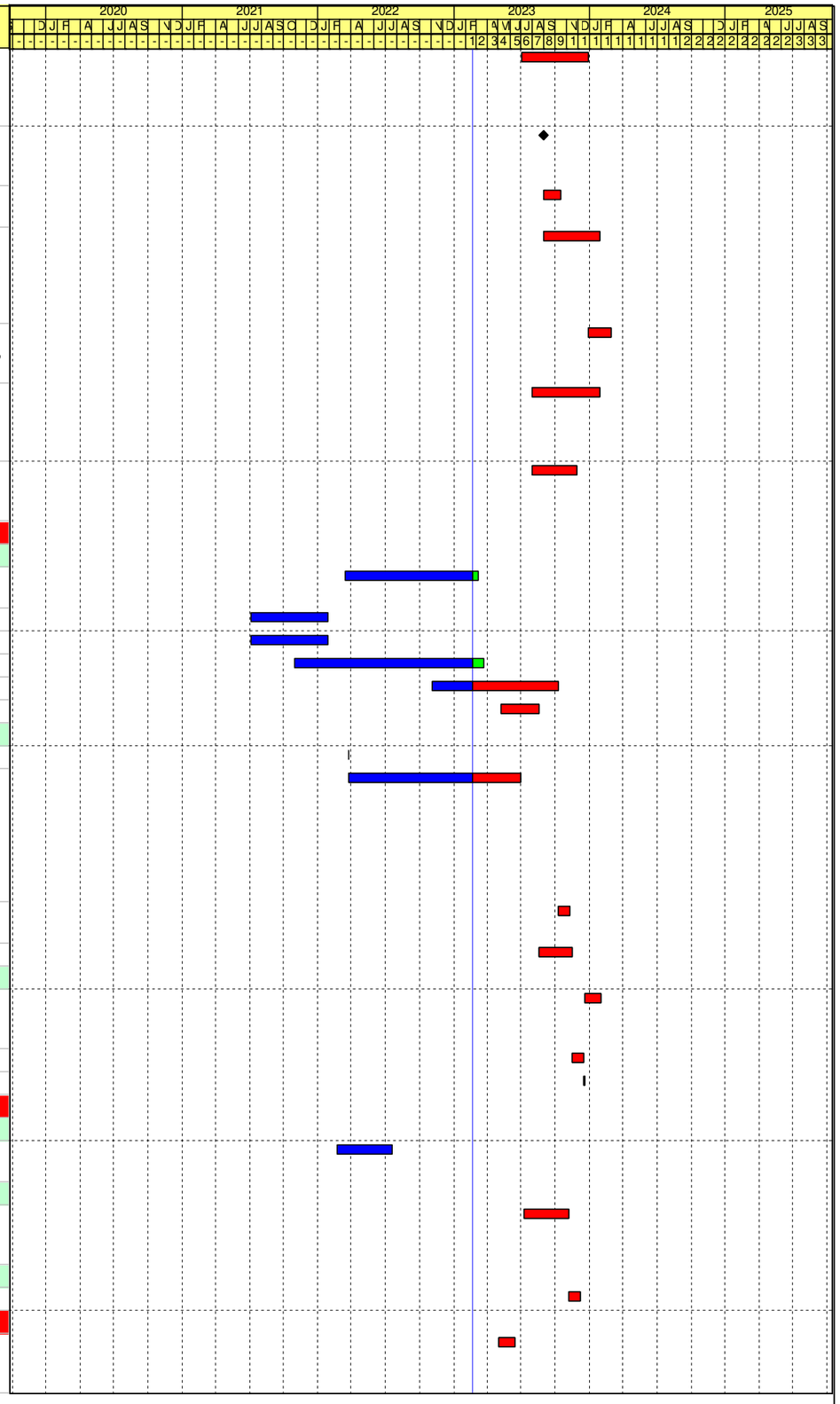
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors
S5EXAC1050	LV Cable Laying from CHP to BHT, THP, DOU No.12, H2S removal & Guard Hse (120 days) & Termination (60 days)	180	03-Jul-23	29-Dec-23	02-Nov-22	30-Apr-23	-243	S5EXAC1040	S5BIOT1000, S5THPT1000, S5DOUT1010, S5H2ST1000
S5EXAC1060	Access to Stage 3 External Area	0	01-Sep-23*		02-Nov-22		-303		S5EXAC1090, S5EXAC1080, S5EXAC1070
S5EXAC1070	LV Cable Laying from SDB to SPS (20 days) & Termination (25 days)	45	01-Sep-23	15-Oct-23	16-Apr-23	30-May-23	-138	S5EXAC1060, S5P1050	S5SPST1000
S5EXAC1080	LV Cable Laying from TX & SW Room to DOU no. 11, Street Hydrant Pump room and PSWS (90 days) & Termination (60 days)	150	01-Sep-23	28-Jan-24	02-Nov-22	31-Mar-23	-303	S5P1050, S5EXAC1060	S5SHPT1000, S5DOUT1000, S5PSWT1000, PL1210, S5EXAC1090
S5EXAC1090	LV Cable Laying from CHP to FeCl3 Dosing Facility and Waste Gas Burning System (30 days) & Termination (30 days)	60	30-Dec-23	27-Feb-24	02-Mar-23	30-Apr-23	-303	S5EXAC1060, S5EXAC1080	S5SPST1000, S5WGBT1000, S5FCDT1000
S5EXAC1100	Road Lighting Installation	180	01-Aug-23	27-Jan-24	29-May-23	24-Nov-23	-64	AD1100, S5EXAC1000, S5EXAC1010, S5P1050	S5S1220, PL1210
S5EXAC1110	Landscape Lighting Installation	120	01-Aug-23*	28-Nov-23	28-Jul-23	24-Nov-23	-4	S5EXAC1000, S5EXAC1010, S5P1050	S5S1220, PL1210
SAS Pumping Station		865	04-Jul-21 A	02-Feb-24	20-Sep-22	27-Aug-23	-159		
Fabrication, FAT & Delivery of Major Plant & Materials		816	04-Jul-21 A	10-Oct-23	20-Sep-22	28-Jul-23	-74		
S5SASP1000	Fabrication & Delivery of SAS Pumping System	120	16-Mar-22 A	06-Mar-23	20-Apr-23	03-May-23	58	S2P1100, S2D1770	S5SASC1010
S5SASP1010	Fabrication & Delivery of Stoplog	270	04-Jul-21 A	27-Jan-22 A	03-May-23	03-May-23		S2P1160	S5SASC1010
S5SASP1020	Fabrication & Delivery of Penstock	270	04-Jul-21 A	27-Jan-22 A	03-May-23	03-May-23		S2P1170	S5SASC1010
S5SASP1030	Fabrication & Delivery of Lifting Appliances	309	30-Oct-21 A	24-Mar-23	03-Mar-23	03-Apr-23	10		S5SASC1010
S5SASP1040	Delivery of Control & Monitoring System / SCADA System	360	04-Nov-22 A	10-Oct-23	09-Dec-22	28-Jul-23	-74		S5SASC1020
S5SASP1050	Fabrication & Delivery of LV Switchboard	103	08-May-23*	18-Aug-23	20-Sep-22	31-Dec-22	-230		S5SASC1030
Installation		514	23-Mar-22 A	16-Nov-23	25-Dec-22	27-Aug-23	-81		
S5SASC1000	Access to SAS Pumping Station (Impacted by NCE-NCE-219)	1	23-Mar-22 A	23-Mar-22 A	25-Dec-22	25-Dec-22		AD1160	S5SASC1010
S5SASC1010	E&M Installation of SAS Pumping System	210	23-Mar-22 A	30-Jun-23	25-Dec-22	03-May-23	-58	AD1160, S5SASP1000, CE0219b, S5SASP1010, S5SASP1020, S5SASC1000, S5SASP1030	S5SAST1000, PL1210, S5SASC1020
S5SASC1020	Installation of SCADA System / Control Monitoring System	30	11-Oct-23	09-Nov-23	29-Jul-23	27-Aug-23	-74	S5SASP1040, S5SASC1010	S5T1000, S5T1010
S5SASC1030	LV Switchboard Installation	90	19-Aug-23	16-Nov-23	01-Jan-23	31-Mar-23	-230	S5SASP1050	S5SAST1010
Testing and Commissioning		78	17-Nov-23	02-Feb-24	01-Apr-23	17-Jun-23	-230		
S5SAST1000	SAT & System Commissioning Tests for SAS Pumping Station	45	20-Dec-23	02-Feb-24	04-May-23	17-Jun-23	-230	S5SASC1010, S5SAST1020	S5T1110, S5T1120, S5T1060
S5SAST1010	SAT of Switchboard	30	17-Nov-23	16-Dec-23	01-Apr-23	30-Apr-23	-230	S5SASC1030	S5SAST1020
S5SAST1020	Ready for Power Energisation	3	17-Dec-23	19-Dec-23	01-May-23	03-May-23	-230	S5SAST1010	S5SAST1000
Existing Consolidation House		289	21-Feb-22 A	06-Dec-23	20-Dec-22	18-May-23	-202		
Fabrication, FAT & Delivery of Major Plant & Materials		150	21-Feb-22 A	20-Jul-22 A	20-Dec-22	20-Dec-22			
S5ECHP1000	Fabrication & Delivery of Temporary Primary Sludge Pump	150	21-Feb-22 A	20-Jul-22 A	20-Dec-22	20-Dec-22		S2P1220, S2D1990	S5ECHC1000
Installation		120	10-Jul-23	06-Nov-23	20-Dec-22	18-Apr-23	-202		
S5ECHC1000	E&M Installation of Existing Consolidation House	120	10-Jul-23*	06-Nov-23	20-Dec-22	18-Apr-23	-202	CE0219d, S5ECHP1000	S5T1060, S5ECHT1000, PL1210
Testing and Commissioning		30	07-Nov-23	06-Dec-23	19-Apr-23	18-May-23	-202		
S5ECHT1000	SAT for Temporary Primary Sludge Pump	30	07-Nov-23	06-Dec-23	19-Apr-23	18-May-23	-202	S5ECHC1000	S5T1060
Miscellaneous		45	02-May-23	15-Jun-23	18-Feb-23	03-Apr-23	-73		
S5UVPC1000	E&M Installation of Lift-up Pumps & Associated Pipeworks / Valves	45	02-May-23*	15-Jun-23	18-Feb-23	03-Apr-23	-73	S4C1030, S4P1080, S4T1020	S5PSWT1010, PL1210



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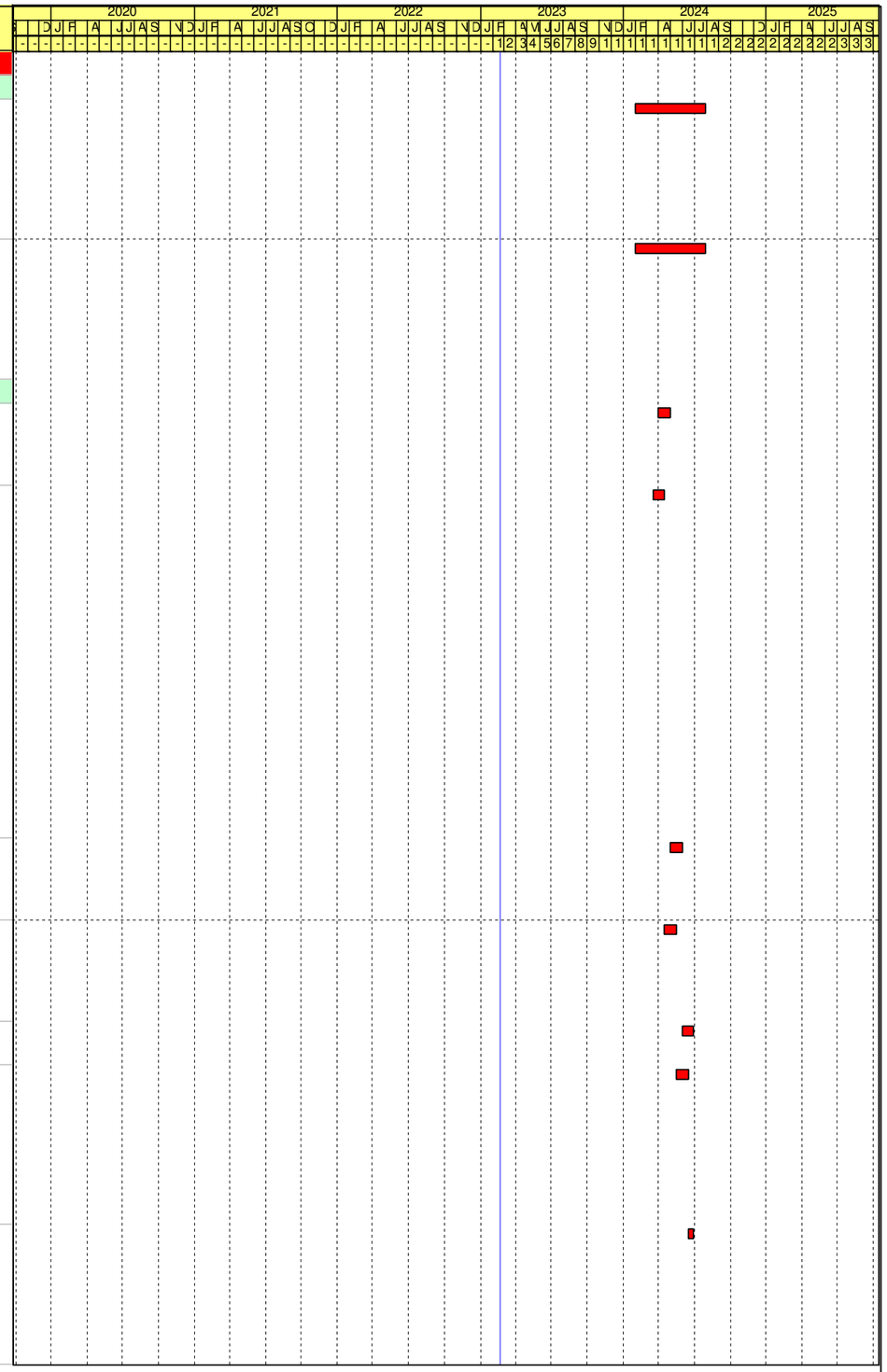
Testing & Commissioning		414	02-Feb-24	21-Mar-25	19-May-23	22-May-24	-303		
T&C of Control Monitoring System		180	02-Feb-24	30-Jul-24	28-Aug-23	23-Feb-24	-158		
S5T1000	SAT of SCADA System	180	02-Feb-24	30-Jul-24	28-Aug-23	23-Feb-24	-158	S5WS2C1180, S5CHPC1120, S5CHPC1250, S5TXRC1050, S5SPSC1010, S5FCDP1040, S5SASC1020	SC51110, S5T1140
S5T1010	SAT of PMS	180	02-Feb-24	30-Jul-24	28-Aug-23	23-Feb-24	-158	S5WS2C1180, S5CHPC1120, S5CHPC1250, S5TXRC1050, S5SPSC1010, S5FCDP1040, S5SASC1020	SC51110, S5T1140
T&C of E&M Process		370	17-Mar-24	21-Mar-25	19-May-23	22-May-24	-303		
S5T1050	System Commissioning Tests for THP System	30	01-Apr-24	30-Apr-24	03-Jun-23	02-Jul-23	-303	S5THPT1010, S5EXAC1045, S5T1060, S5TCWT1010	S5T1120, S5T1080, S5T1110
S5T1060	System Commissioning Tests for Sludge Dewatering System	30	17-Mar-24	15-Apr-24	19-May-23	17-Jun-23	-303	S5ECHC1000, S5DOUT1020, S5SPST1010, S5SAST1000, S5ECHT1000, S5SDBT1200, S5SDBT1100, S5SDBT1090, S5SDBT1160, S5SDBT1170, S5SDBT1080, S5SDBT1010, S5SDBT1210, S5SDBT1060, S5SDBT1040, S5SDBC1300, S5SDBC1210, S5PSWT1010	S5T1120, S5T1110, PL1520, S5T1050
S5T1070	System Commissioning Tests for Biogas Storage System	30	01-May-24	30-May-24	03-Jul-23	01-Aug-23	-303	S5BIOT1010, S5T1080	S5T1120, S5T1110, S5S1070, S5T1100
S5T1080	System Commissioning Tests for Sludge Digestion System	30	16-Apr-24	15-May-24	18-Jun-23	17-Jul-23	-303	S5DIGT1020, S5T1050, S5H2ST1010, S5DOUT1030, S5FCDT1010	S5T1120, S5T1110, S5T1070
S5T1090	System Commissioning Tests for Gas Burning System	30	31-May-24	29-Jun-24	02-Aug-23	31-Aug-23	-303	S5WGBT1010, S5T1100	S5T1120, S5T1110
S5T1100	System Commissioning Tests for CHP System	30	16-May-24	14-Jun-24	18-Jul-23	16-Aug-23	-303	S5CHPT1030, S5S1310, S5CHPC1120, S5CHPT1000, S5CHPC1250, S5CHPT1040, S5CHPT1050, S5T1070	S5T1120, S5T1110, PL1560, S5T1090
S5T1110	Seeding	14	16-Jun-24	29-Jun-24	18-Aug-23	31-Aug-23	-303	S5T1090, S5T1070, S5T1080, S5T1100, S5T1060, S5T1050, S5SAST1000	S5T1120



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28-Feb-23	Rev.31	IM/LT	KM

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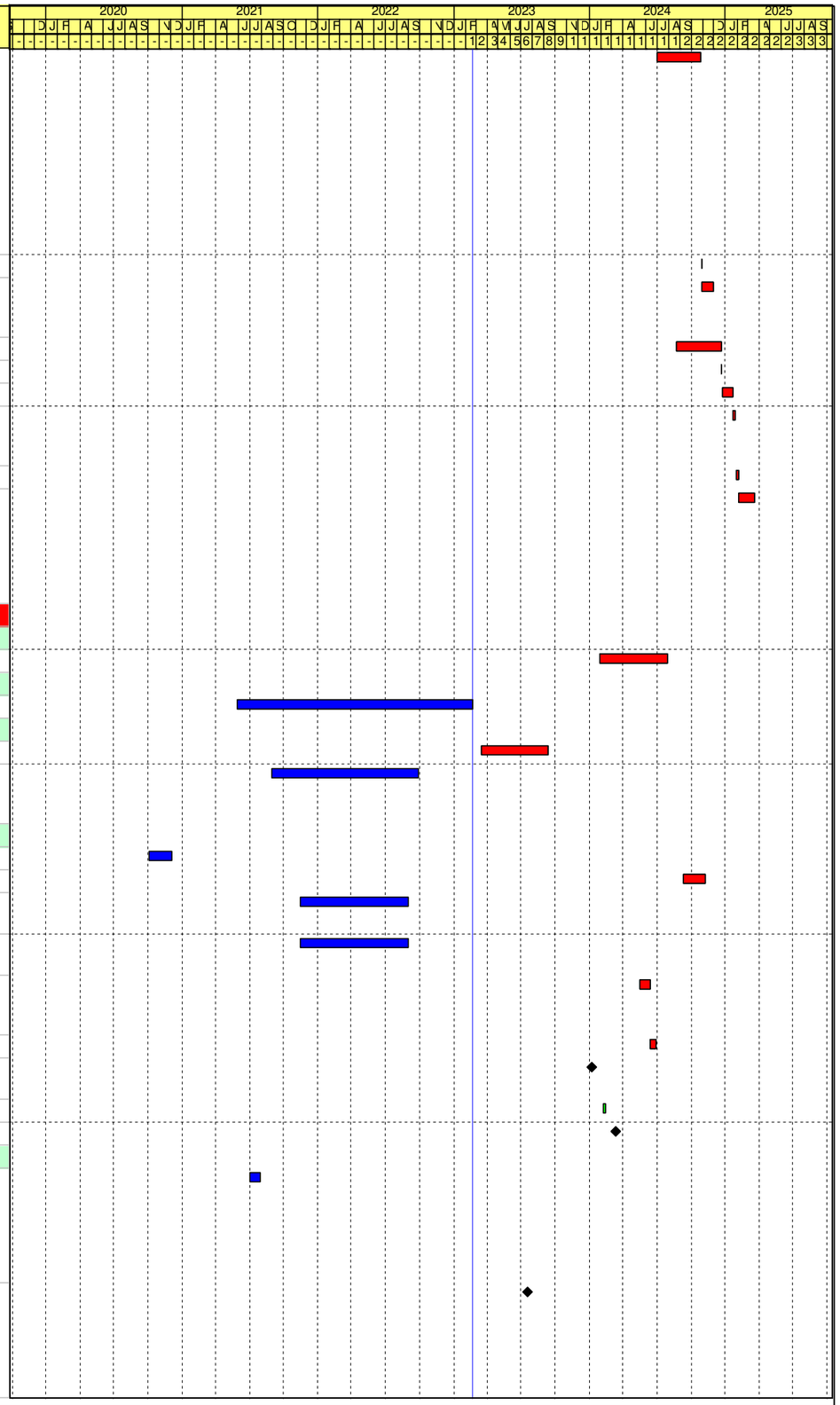
S5T1120	Process Start Up - Digester 1	120	30-Jun-24	27-Oct-24	01-Sep-23	29-Dec-23	-303	S5T1090, S5T1070, S5T1080, S5T1100, S5T1060, S5T1050, S5T1110, S5S1080, S5TXRC1050, S5SAST1000, S3T1290	S5T1150, S5T1130, S3T1340
S5T1130	Notice to Commence Phase 1 System Commissioning - Digester 1	3	28-Oct-24	30-Oct-24	21-Feb-24	23-Feb-24	-250	S5T1120	S5T1140
S5T1140	Phase 1 System Commissioning - Digester 1	30	31-Oct-24	29-Nov-24	24-Feb-24	24-Mar-24	-250	S5T1130, S5T1000, S5T1010	S5T1180
S5T1150	Process Start Up - Digester 2	120	22-Aug-24	19-Dec-24	24-Oct-23	20-Feb-24	-303	S5T1120	S5T1160
S5T1160	Notice to Commence Phase 1 System Commissioning - Digester 2	3	20-Dec-24	22-Dec-24	21-Feb-24	23-Feb-24	-303	S5T1150	S5T1170
S5T1170	Phase 1 System Commissioning - Digester 2	30	23-Dec-24	21-Jan-25	24-Feb-24	24-Mar-24	-303	S5T1160	S5T1180
S5T1180	Phase 2 System Commissioning - Digester 1 & 2	7	22-Jan-25	28-Jan-25	25-Mar-24	31-Mar-24	-303	S5T1170, S5T1140	S5T1190, PL1310, S3T1360
S5T1190	Notice to Commence Plant Commissioning	7	29-Jan-25	04-Feb-25	01-Apr-24	07-Apr-24	-303	S5T1180	S5T1200
S5T1200	Plant Commissioning Tests	45	05-Feb-25	21-Mar-25	08-Apr-24	22-May-24	-303	S5T1190, S5S1020, S5TXRC1050, S5WS2C1180, S5S1150, S3T1320	SC51110
Statutory Submission / Inspection		1281	03-Oct-20 A	08-Nov-24	09-Jun-22	17-Jun-24	-144		
HKT Submission		180	30-Jan-24	27-Jul-24	25-Nov-23	22-May-24	-66		
S5S0990	Application of Telemetry Lines for Workshop No. 2.	180	30-Jan-24	27-Jul-24	25-Nov-23	22-May-24	-66	S5WS2C1180	SC51110
CLP Submission		275	30-May-21 A	21-Feb-23	30-Dec-22	30-Dec-22	-53		
S5S1000	Submission & Approval of Electrical Schematic Wiring Diagram to CLP	275	30-May-21 A	21-Feb-23	30-Dec-22	30-Dec-22	-53		S5WS2C1040
EPD Submission / Inspection		747	28-Aug-21 A	13-Sep-23	09-Jun-22	05-Dec-22	-282		
S5S1010	EPD Submission & Approval for Air Pollution Control - Genset	180	18-Mar-23	13-Sep-23	09-Jun-22	05-Dec-22	-282	S2D1860	S5SDBC1770
S5S1020	EPD Submission & Approval for Air Pollution Control - CHP & Burner	180	28-Aug-21 A	29-Sep-22 A	03-Aug-22	03-Aug-22		S2D1610	S5T1200, S5THPC1020, S5CHPC1020
EMSD Submission / Inspection		1281	03-Oct-20 A	08-Nov-24	09-Aug-22	17-Jun-24	-144		
S5S1030	BEEO Stage one: Submit EE1 & EE-SU to EMSD	60	03-Oct-20 A	02-Dec-20 A	09-Aug-22	09-Aug-22		S2D1890	S5WS2C1000
S5S1040	BEEO Stage two: Submit EE2 & EE-SU to EMSD	60	10-Sep-24	08-Nov-24	19-Apr-24	17-Jun-24	-144	S5S1250	SC51120
S5S1050	Application & Approval of the Zone Classification of Hazardous Area - including Fire Risk Assessment Report	180	15-Nov-21 A	30-Aug-22 A	27-Oct-22	27-Oct-22		S2D1070	S5S1070, S5S1060
S5S1060	Application for Construction Approval of Notifiable Gas Installation (Form 104)	180	15-Nov-21 A	30-Aug-22 A	27-Oct-22	27-Oct-22		S2D1070, S5S1050	S5S1070, S5BIOC1020
S5S1070	Application for Approval of Use of Notifiable Gas Installation (Form 105)	28	17-May-24	13-Jun-24	21-Jul-23	17-Aug-23	-301	S5S1060, S5T1070, S5S1050	S5S1080
S5S1080	EMSD Inspection - Gas Holding Tanks	14	14-Jun-24	27-Jun-24	18-Aug-23	31-Aug-23	-301	S5S1070	S5T1120
S5S1090	Form 5 Submission to EMSD - Lift Installation	0	07-Jan-24		17-Mar-24		70	S5WS2T1020, S5SDBT1070	S5S1100
S5S1100	EMSD Inspection - Lift Installation	7	06-Feb-24	12-Feb-24	16-Apr-24	22-Apr-24	70	S5S1090	S5S1110
S5S1110	Issuance of Form 6 - Lift Installation	0		13-Mar-24		22-May-24	70	S5S1100	SC51110
WSD Submission / Inspection		1004	01-Jul-21 A	30-Mar-24	26-Jul-23	22-May-24	53		
S5S1120	Submit WWO46 Part I / II to WSD (FS/PD)	30	01-Jul-21 A	30-Jul-21 A	26-Jul-23	26-Jul-23		S2D1910, S2D1860, S2D1870, S2D1880, S2D1890, S2D1900	S5S1130, S5WS2C1140, S5SHPC1020, S5DIGC1300, S5WS2C1170
S5S1130	Submit WWO46 Part IV to WSD (FS)	0	17-Jul-23		24-Oct-23		99	S5S1120, S5WS2C1140, S5SHPC1020, S5SDBC1800, S5SDBC1690, S5SDBC1600	S5S1140, S5S1150



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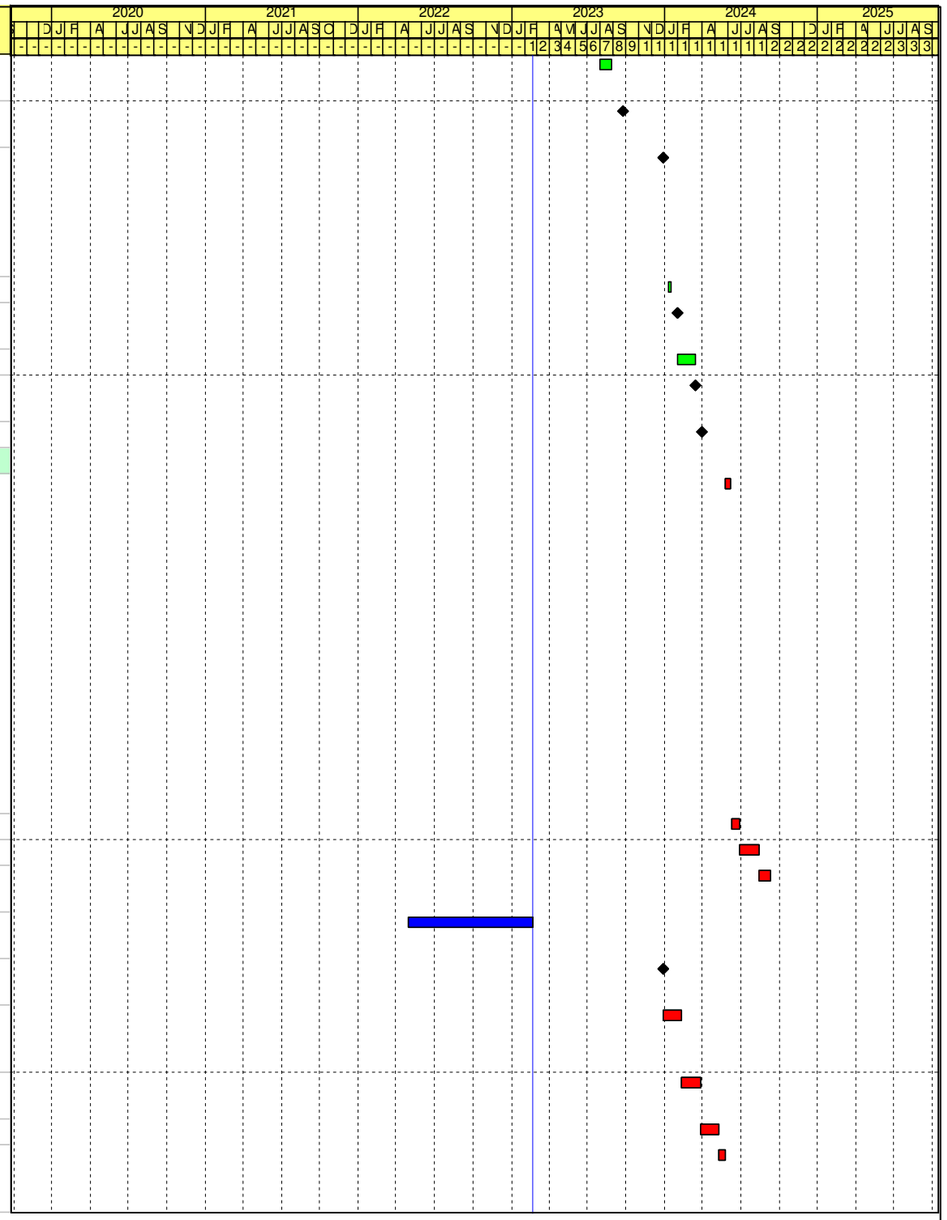
S5S1140	WSD Inspection (FS)	28	31-Jul-23	27-Aug-23	07-Nov-23	04-Dec-23	99	S5S1130	S5S1250, S5S1150
S5S1150	Issuance of FS Water Certificate	0		24-Sep-23		01-Jan-24	99	S5S1130, S5S1140	S5T1200, S5S1220
S5S1160	Submit WWO46 Part IV to WSD (PD)	0	28-Dec-23		19-Feb-24		53	S5SPSC1020, S5CHPC1240, S5CHPC1110, S5DIGC1300, S5WS2C1170, S5SDBT1190	S5S1170
S5S1170	WSD Inspection	7	11-Jan-24	17-Jan-24	04-Mar-24	10-Mar-24	53	S5S1160	S5S1180
S5S1180	Issuance of Form WWO46 Part Va	0		31-Jan-24		24-Mar-24	53	S5S1170	S5S1200, S5S1190
S5S1190	System Flushing / Sampling	45	01-Feb-24	16-Mar-24	25-Mar-24	08-May-24	53	S5S1180	S5S1200
S5S1200	Issuance of Form WWO46 Part Vb	0		16-Mar-24		08-May-24	53	S5S1180, S5S1190	S5S1210
S5S1210	Issuance of Water Certificate	0		30-Mar-24		22-May-24	53	S5S1200	SC51110
FSD Submission / Inspection		437	29-Apr-22 A	09-Sep-24	05-Dec-22	18-Apr-24	-144		
S5S1220	Prepare & Submit FSI/314 & FSI/501	14	25-May-24	07-Jun-24	02-Jan-24	15-Jan-24	-144	S5WS2C1150, S5S1310, S5S1150, S5EXAC1100, S5EXAC1110, S5CHPC1080, S5CHPC1090, S5CHPC1210, S5CHPC1220, S5DIGC1280, S5DIGC1290, S5SHPT1010, S5SDBT1020, S5SDBT1150, S5SDBT1180, S5SDBT1130	S5S1230
S5S1230	FSD Review & Approval of FSI/314 & FSI/501	21	08-Jun-24	28-Jun-24	16-Jan-24	05-Feb-24	-144	S5S1220	S5S1240
S5S1240	F.S. Inspection, Defects Rectification & Re-inspection	45	29-Jun-24	12-Aug-24	06-Feb-24	21-Mar-24	-144	S5S1230	S5S1250
S5S1250	Issuance of Acceptance Letter	28	13-Aug-24	09-Sep-24	22-Mar-24	18-Apr-24	-144	S5S1240, S5S1140	SC51110, S5S1040
S5S1260	Submission & Approval of DG Application to FSD	180	29-Apr-22 A	21-Feb-23	05-Dec-22	05-Dec-22	-78		S5S1270, S5SDBC1770
S5S1270	Application of D.G. Licence	0	28-Dec-23		21-Mar-23		-282	S5SDBT1140, S5S1260	S5S1280
S5S1280	Apply for D.G. Inspection	45	28-Dec-23	10-Feb-24	21-Mar-23	04-May-23	-282	S5CHPC1150, S5FCDC1020, S5S1270	S5S1310, S5S1290
S5S1290	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	45	11-Feb-24	26-Mar-24	05-May-23	18-Jun-23	-282	S5S1280	S5S1310, S5S1300
S5S1300	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	45	27-Mar-24	10-May-24	19-Jun-23	02-Aug-23	-282	S5S1290	S5S1310
S5S1310	Issue D.G. Licence	14	11-May-24	24-May-24	03-Aug-23	16-Aug-23	-282	S5S1290, S5S1300, S5S1280	S5S1220, S5T1100



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 Feb 2023

Date	Revision	Checked	Approved
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM
31-Dec-22	Rev.29	LT	KM
31-Jan-23	Rev.30	IM/LT	KM
28-Feb-23	Rev.31	IM/LT	KM

Contract No. DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
- E&M Works for Sewage Treatment Facilities
3 Month Rolling Programme (From 01/03/2023 to 01/06/2023)

Updated on: **20-Mar-23**

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
Drawing Submisssion for Key Dates												
KD1A: Submission of civil and dimensional requirement drawing, electrical schematic drawings, etc. from formation level up to +8mPD in accordance with the contract requirement of Contract No. DC/2018/07 to carry out civil works construction	KD1A: Submission of Civil Requirement Drawing (Final)	28/8/2020	18/9/2020	5/11/2020	5/11/2020	Task Completed	no.	26	26	100%		
	KD1A: Submission of Electrical Schematic Drawing (Final)	15/7/2020	15/7/2020	5/11/2020	5/11/2020	Task Completed	no.	11	11	100%		
	KD1A: 6 November 2020											
KD1B: Submission of remaining civil and dimenssional requirement drawings, electrical schematic drawing, etc. in accordance with the contract requirement of Contract No. DC/2018/07 to carry out civil works construction	KD1B: Submission of Civil Requirement Drawing (First Draft)	30/9/2020	28/9/2020	30/12/2020	31/3/2021	Task Completed	no.	47	47	100%		
	KD1B: Submission of Civil Requirement Drawing (Final)	6/11/2020	5/11/2020	4/6/2021	4/6/2021	Task Completed	no.	47	47	100%		All the CWR Drawings were submitted.
	KD1B: 4 June 2021											
KD3A: 04SC010 - Dismantle & Removal of Emergency Generators in existing Power House	Submission of subletting package for acceptance (C9)	1/3/2020	24/2/2020	14/3/2020	22/4/2020	Task Completed				100%	-	Bestwise resubmitted on 22 April 2020
	Acceptance of subletting package (C9)	14/3/2020	6/5/2020	1/4/2020	5/5/2020	Task Completed				100%	-	AECOM accepted subletting package on 5 May 2020
	Tender invitation (C9)	1/4/2020	15/5/2020	15/4/2020	22/5/2020	Task Completed				100%	-	Invitation to tender was commenced on 12 May 2020 and tender returned on 22 May 2020
	Tender award (C9)	15/4/2020	22/5/2020	29/4/2020	26/5/2020	Task Completed				100%	-	Bestwise submitted tender report on 26 May 2020
	Acceptance of tender award (C9)	-	-	-	6/6/2020	Task Completed				100%	-	AECOM accepted tender report on 2 June 2020, Letter of Acceptance was issued on 6 June
	Dismantle of existing BS equipment		15/6/2020		25/7/2020	Task Completed				100%		
	Removal of emergency generators	1/6/2020	15/6/2020	30/6/2020	25/7/2020	Task Completed				100%		
KD3A: 04SC010 - Dismantle & Removal of Emergency Generators in existing Power House	KD3A: Testing and Comissioning	1/7/2020	3/7/2020	29/7/2020	29/7/2020	Task Completed				100%		First test was conducted on 3 July 2020. Remaining test would be subjected to completion of civil works. KD3A - 29 July 2020. Joint Site Inspection was conducted on 24 July 2020 and Notice of completion of work was submitted on 28 July 2020
	KD3A: 29 July 2020											
	Submission of onsite survey plan on E&M aspects for	1/3/2020	25/3/2020	30/3/2020	27/4/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 27 April 2020
	Acceptance of submission of onsite survey plan	1/3/2020	25/3/2020	30/3/2020	22/5/2020	Task Completed				100%	-	AECOM accepted the onsite survey plan on 22 May 2020. Onsite coordination with ST1
KD3B: 6B.2.15 Operation Restoration of Existing Primary Sedimentation Tank (PST) No. 4 and 6	KD3B: Submission of onsite survey report	11/7/2020	20/7/2020	16/7/2020	30/7/2021	Task Completed				100%	Bestwise	- Onsite survey conducted from 20 July 2020 to 22 July 2020. Bestwise submitted survey report on 5 August 2020. AECOM commented on 19 Aug 2020. Bestwise to resubmit upon conducting the remaining onsite survey. (Done) - Bestwise revised survey plan for remaining onsite checking of PST No. 6 on 1 Sep 2020. After discussion with plant operator, the remaining survey would be conducted after the dismantling work of PSTs. Formal survey record for PST No.4 was submitted on 24 May 2021. - Remaining survey (level of bridge & scraper) for PST 6 completed. - Formal survey report shall be submitted on 30 Jul 2021.
	KD3B: Acceptancce of onsite survey report	17/7/2020	6/8/2020	23/7/2020	6/8/2021	Task Completed				-		Acceptance for the center point, vertical and horizontal alignment of ductfoot installation of PST No.4 shall subject to joint site meeting conducted on 2 June 2021. Refer to E-RISC no. 000014A & 000016 result for details.
	KD3B: Preparation of procurement package (C11)	2/12/2019	1/8/2020	13/4/2020	7/8/2020	Task Completed				100%		
	KD3B: Tender invitation - Clarifier (C11)	2/12/2019	14/8/2020	13/4/2020	26/8/2020	Task Completed				100%		
	KD3B: Tender Award - Clarifier (C11)	2/12/2019	26/8/2020	13/4/2020	25/9/2020	Task Completed				100%		
	KD3B: Acceptance of tender award (C11)	2/12/2019	11/9/2020	13/4/2020	18/9/2020	Task Completed				-		
	KD3B: Tender invitation - DI Pipe (C11)	2/12/2019	13/1/2021	13/4/2020	19/1/2021	Task Completed				100%		
	KD3B: Tender Award - DI Pipe (C11)	2/12/2019	21/1/2021	13/4/2020	23/1/2021	Task Completed				100%		
	KD3B: Tender invitation - LCP (C11)	2/12/2019	3/2/2021	13/4/2020	5/2/2021	Task Completed						
	KD3B: Tender Award - LCP (C11)	2/12/2019	6/2/2021	13/4/2020	8/2/2021	Task Completed				100%		
	KD3B: Preparation of subletting package for dismantling work (C9)	2/12/2019	21/9/2020	13/4/2020	21/10/2020	Task Completed				100%		
	KD3B: Tender invitation for dismantling work (C9)	2/12/2019	12/11/2020	13/4/2020	19/11/2020	Task Completed				100%		
	KD3B: Tender Award for dismantling work (C9)	2/12/2019	20/11/2020	13/4/2020	22/11/2020	Task Completed				100%		
	KD3B: Acceptance of tender award for dismantling work (C9)	2/12/2019	23/11/2020	13/4/2020	1/12/2020	Task Completed				100%		

Contract No. DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
- E&M Works for Sewage Treatment Facilities
3 Month Rolling Programme (From 01/03/2023 to 01/06/2023)

Updated on: **20-Mar-23**

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD3B: Preparation and Acceptance of subletting package for installation work (C9)	2/12/2019	15/12/2020	13/4/2020	1/3/2021	Task Completed				100%		
	KD3B: Tender invitation for installation work (C9)	2/12/2019	3/3/2021	13/4/2020	10/3/2021	Task Completed				100%		
	KD3B: Tender Award for installation work (C9)	2/12/2019	12/3/2021	13/4/2020	15/3/2021	Task Completed				100%		
	KD3B: Acceptance of tender award for installation work (C9)	2/12/2019	15/3/2021	13/4/2020	19/3/2021	Task Completed				100%		
	Submission and Acceptance of Drawing Submission	14/4/2020	5/8/2020	10/9/2020	11/1/2021	Task Completed				100%		
	Submission and Acceptance of P&M Submission	14/4/2020	5/8/2020	10/9/2020	30/6/2021	Task Completed						Formal resubmission of P&M for Rotating Bridge Scraper P&M-0024 (Rev.1) was submitted to AECOM on 24 June 2021 and is accepted by AECOM. P&M submission for Local Control Panel Rev.3 was submitted on 20 Mar 2021 and AECOM accepted on 26 Mar 2021.
	Submission and Acceptance of FAT Plan	1/12/2020	27/1/2021	15/12/2020	16/2/2021	Task Completed				100%		
	Submission and Acceptance of SAT Plan	1/3/2021	1/3/2021	1/4/2021	5/5/2021	Task Completed				100%		Bestwise submitted on 13 Apr 2021. AECOM accepted with comments on 5 May 2021.
	Submission and Acceptance of Design Submission (Support to DN700 Feed Pipe)	N/A	22/2/2021	N/A	13/5/2021	Task Completed						Advanced Calculation was provided on 17 Mar 2021 and revised on 18 Mar 2021. Bestwise proposed to use the existing support. Calculation was provided on 1 Apr 2021 via email. Dimension of support column was checked again on 14 Apr 2021. Proposal submitted on 30 Apr 2021. AECOM accepted with comments on 13 May 2021.
	Submission and Acceptance of Design Submission (Stainless steel support to FRP Cover of Effluent	N/A	24/2/2021	N/A	19/4/2021	Task Completed				100%		Advanced Calculation was provided on 17 Mar 2021 and revised on 18 Mar 2021. Bestwise formal submitted on 26 Mar 2021. AECOM accepted with comment on 19 Apr 2021.
	KD3B: Dismantle and Removal of E&M Equipment at PST No. 6	9/2/2021	21/12/2020	19/2/2021	15/1/2021	Task Completed				100%		
	Flow Diversion and drain out PST No.4	N/A	25/1/2021	N/A	26/3/2021	Task Completed				100%		
	KD3B: Dismantle and Removal of E&M Equipment at PST No. 4	9/2/2021	5/3/2021	19/2/2021	1/4/2021	Task Completed				100%		
	KD3B: Material Manufacturing (Clarifier)	12/9/2020	16/12/2020	12/12/2020	20/2/2021	Task Completed				100%		The clarifier would be manufactured in 2 batches (rotating bridge related and FRP launder cover). Manufaturing instruction was issued on 16 Dec 2020. Jash suggested 1st batch of material (clarifier) would be ready for shipping on 20 Feb 2021 and 2nd batch of material (FRP Launder Cover) would be ready for shipping on 13 Mar 2021. (To be confirmed by Jash by providing shipment booking, but supplier cannot provide updated information at thie moment due to second surge of COVID-19 in india)
	KD3B: FAT of the Clarifier	N/A	24/2/2021	N/A	1/3/2021	Task Completed				100%		FAT Report submitted on 24 Feb 2021 and AECOM accepted subject to comment on 1 Mar 2021
	KD3B: Material Delivery (Clarifier)	13/12/2020	27/2/2021	18/1/2021	6/4/2021	Task Completed				100%		
	KD3B: Material Deliver to Site (Clarifier)	N/A	6/4/2021	N/A	8/4/2021	Task Completed				100%		
	KD3B: Material Manufacturing (DI pipes and fittings)	11/9/2020	26/1/2021	18/1/2021	15/3/2021	Task Completed				100%		Extracted from C9 package to C11 package to suit the installation programme
	KD3B: Material Delivery (DI pipes and fittings)	11/9/2020	16/3/2021	18/1/2021	24/3/2021	Task Completed				100%		
	KD3B: Material Delivery (FRP Cover)	N/A	26/3/2021	N/A	21/6/2021	Task Completed				100%		All the FRP covers were delivered to site.
	KD3B: Material Manufacturing (LCP)	11/9/2020	4/3/2021	18/1/2021	16/4/2021	Task Completed				100%		
	KD3B: Material Delivery (LCP)	11/9/2020	17/4/2021	18/1/2021	30/4/2021	Task Completed				100%		
	KD3B: Retrofitting Concrete Structure of PST No. 4	N/A	2/4/2021	N/A	22/4/2021	Task Completed				100%		
	KD3B: Installation of E&M Equipment at PST No. 4	27/2/2021	5/4/2021	10/5/2021	17/5/2021	Task Completed						
	KD3B: Testing and Comisssioning for PST No. 4	11/5/2021	19/4/2021	9/6/2021	26/7/2021	Task Completed						Wet test for PST 4 completed on 26 July 2021.
	Flow Diversion from PST No.6 to Temporary Filtrate Equalization Tank	N/A	19/5/2021	N/A	20/5/2021	Task Completed				100%		Filtrate feeding to TFES was resumed on 19/5/2021 with fine-tuned control.
	Removal of Accumulated Sludge Inside PST No. 6	N/A	19/5/2021	N/A	30/5/2021	Task Completed				100%		NCE-0229, this includes removal of floating scum/ sludge and clearance of blockage of drain pipe
	KD3B: Retrofitting Concrete Structure of PST No. 6	N/A	28/5/2021	N/A	24/6/2021	Task Completed				100%		
	KD3B: Mechanical Installation of E&M Equipment at PST No. 6	27/2/2021	31/5/2021	10/5/2021	21/7/2021	Task Completed				100%		This includes PST Influent feed pipe, center bearing & slip ring assembly, motor & gearbox assembly, rotating bridge sludge & scum scraper assembly, circular baffle diffuser box, v-notched weir plate, scum baffle plate, scum collection box and FRP cover.
	KD3B: Electrical Installation of E&M Equipment at PST No. 6	27/2/2021	9/6/2021	10/5/2021	21/7/2021	Task Completed				100%		This includes installation of LCP, cable laying & terminations.

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Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD3B: Testing and Comisssioning for PST No. 6	11/5/2021	22/6/2021	9/6/2021	20/8/2021	Task Completed				100%		Wet test (1st) completed on 20 Aug 2021 and wet test (2nd) completed on 3 Sep 2021.
KD3B: 6B.2.15 Operation Restoration of Existing Primary Sedimentation Tank (PST) No. 4 and 6	KD3B: System Commissioning for PST No. 4 & 6	N/A	22/6/2021	N/A	3/9/2021	Task Completed				100%		Wet test (2nd) for PST#6 completed on 3 Sep 2021 and pre-handover inspection arranged on 30 Aug 2021. Defect list (final) received on 17 Sep 2021 and defect rectification was completed. Site training/ demonstration shall be conducted by end Feb and PMI modification work shall be completed by end March.
	KD3B: 9 June 2021											
Section 1 of Works (outstanding works list)												
6B.2.12 Provision of New Replacement Filter Plates	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	21/4/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 21 April 2020
	Acceptance of submission of onsite survey plan	1/3/2020	25/3/2020	30/3/2020	12/5/2020	Task Completed				100%	-	Survey plan acceptance received on 12 May 2020. Onsite discussion with ST1 was
	Submission of onsite survey report	21/5/2020	21/5/2020	29/5/2020	29/5/2020	Task Completed				100%		
	Acceptancce of onsite survey report	30/5/2020	30/5/2020	15/6/2020	15/6/2020	Task Completed				-		
	Preparation of procurement package (C11)	22/6/2020	22/6/2020	6/7/2020	14/7/2020	Task Completed				100%		
	Tender invitation (C11)	15/7/2020	15/7/2020	22/7/2020	24/7/2020	Task Completed				100%		
	Tender Award (C11)	23/7/2020	25/7/2020	29/7/2020	31/7/2020	Task Completed				100%		Revised survey report (second draft) was sent to AECOM on 21 Oct 2020. Technical
	Material Submission	21/8/2020	21/8/2020	28/8/2020	7/12/2020	Task Completed				100%		Material submission (Rev.1) resubmitted on 7 Dec 2020. AECOM accepted subject to comments on 24 Dec 2020. Material submission (Rev. 2) resubmitted on 12 Jan 2021. AECOM accepted subject to comment on 22 Jan 2021.
6B.2.12 Provision of New Replacement Filter Plates for Existing Membrane Filter Presses at Existing Sludge Press House	Material Delivery	1/12/2020	1/12/2020	8/8/2021	8/8/2021	Task Completed				-		"Filter Press Plates and Cloths" were handed over to DSD.
6B.2.12 Provision of Membrane Filter Press System at Existing Sludge Press House	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	Task to be deleted	Task to be deleted				-	-	PPMI No.5 was issused by PM on 24 April 2020. Bestwise is requested to submit quotation on delete the provision of one (1) no. of membrane filter press system in pursuant to Particular Specification Clause 6B.2.12.
6B.2.16 Temporary Filtrate Equalisation System (Sub-programme was provided by Bestwise)	Submission of onsite survey plan on E&M aspects for acceptance	1/3/2020	1/4/2020	30/3/2020	7/5/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 7 May 2020
	Acceptance of submission of onsite survey plan	1/3/2020	1/4/2020	30/3/2020	23/5/2020	Task Completed				100%	-	AECOM accepted the onsite survey plan on 23 May 2020
6B.2.16 Temporary Filtrate Equalisation System (Sub-programme was provided by Bestwise)	Submission and Acceptance of ELS Design for Lifting Well	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	9/2/2021	Task Completed				100%	Bestwise	- * = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. Bestwise submitted Rev.0 on 21 Oct 2020 and resubmitted Rev.2 on 23 Jan 2021. - AECOM provide consent for the ELS temporary works on 9 Feb 2021. AECOM accepted on 9 Feb 2021.
	Submission and Acceptance of Design for Filtrate Lifting Well Construction	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	15/1/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. AECOM commented on 21 Dec 2020. Bestwise submitted Rev.0 on 2 Nov 2020 and Rev.1 on 8 Jan 2021.
	Submission and Acceptance of Design of FRP Filtrate Equalization Tank	15/06/2020 -> 07/09/2020**	2/9/2020	30/07/2020 -> 22/10/2020**	15/1/2021	Task Completed				100%		** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. - Bestwise submitted Rev.0 on 08 Jan 2020.
	Submission and Acceptance of Design of footing for FRP Filtrate Equalization Tank	15/06/2020 -> 07/09/2020**	2/9/2020	30/07/2020 -> 22/10/2020**	19/2/2021	Task Completed				100%		** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. - Design of Footing was submitted on 8 Feb 2021.
	Submission and Acceptance of Design of Formwork & Flasework Design for Construction of Lifting Well	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	15/1/2021	Task Completed				100%		- * = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Bestwise submitted Rev.0 on 12 Jan 2020.

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Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission and Acceptance of Contractor's Design for Temporary Filtrate Equalisation System (E&M Works) (CDS010-2)	01/06/2020 -> 7/9/2020**	5/7/2020	30/07/2020 -> 30/11/2020**	30/7/2021	Task Completed				-	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Bestwise submitted (CDS 0010 Rev.0) on 6 August 2020, AECOM commented on 27 Aug 2020. Bestwise to resubmit (Separate submissions P&M0049, DWG0038, CDS0026, P&M0008, P&M0004, CDS0037, CDS0027, DWG0040 were submitted) - Control philosophy (CDS0027 Rev.0) was submitted on 22 Dec 2020. AECOM commented on 13 Jan 2021, Bestwise resubmitted on 27 May 2021 formally, AECOM accepted with comments on 4 Jun 2021.
	Drawing Submission	01/06/2020 -> 17/08/2020*	29/9/2020	30/07/2020 -> 30/11/2020*	5/3/2021	Task Completed				100%	Bestwise	- '* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Bestwise submitted (rev.0) on 29 Oct 2020 and resubmitted (rev.2) on 25 Jan 2021, AECOM accepted on 5 Feb 2021.
	Material Submission	01/06/2020 -> 17/08/2020*	29/11/2020	30/07/2020 -> 30/11/2020*	25/2/2021	Task Completed				100%	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - P&M submission of temporary filtrate equalization tank (P&M 0030 Rev.1) on 29 Jan 2021. AECOM accepted subject to comments on 25 Feb 2021.
Subletting Package for Temporary Filtrate Equalization System	Tender invitation (C11) (EQT-002 & EQT-004)	17/4/2020	17/4/2020	7/5/2020	7/5/2020	Task Completed				100%		
	Tender award (C11) (EQT-002 & EQT-004)	14/4/2020	24/4/2020	13/5/2020	13/5/2020	Task Completed				100%	Bestwise	Bestwise submitted tender report on 29 April 2020 for filtrate pumps, AECOM commented on 29 May 2020, Bestwise to resubmit. Bestwise submitted tender report of instrument on 13 May 2020, AECOM noted on 26 May
	Acceptance of tender award (C11) (EQT-002 & EQT-	25/4/2020	25/4/2020	21/5/2020	21/5/2020	Task Completed				100%	Bestwise	
	Material Submission	20/07/2020 ->	16/10/2020	20/08/2020 -	5/2/2021	Task Completed				-	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 18
	Submission of subletting package for acceptance (C9)	1/3/2020	13/7/2020	14/3/2020	13/7/2020	Task Completed				100%		
	Acceptance of subletting package (C9)	15/3/2020	14/7/2020	28/3/2020	14/7/2020	Task Completed				100%		
	Tender invitation (C9)	29/3/2020	15/7/2020	11/4/2020	22/7/2020	Task Completed				100%		
	Tender award (C9)	12/4/2020	23/7/2020	25/4/2020	13/8/2020	Task Completed				100%		
	Acceptance of tender award for civil construction work (C9)	26/04/2020	14/8/2020	5/5/2020	2/9/2020	Task Completed				100%		
	Preparation of subletting package for mech work (C9)	01/08/2020 -> 01/12/2020*	25/1/2021	08/08/20 -> 08/12/2020*	1/3/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. Subletting package would was submitted on 25 Feb 2021 and AECOM accepted on 1 Mar
	Tender invitation for mech work (C9)	08/08/20 ->	2/3/2021	15/08/2020 -	9/3/2021	Task Completed				100%		Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
	Tender Award for mech work (C9)	15/08/2020 ->	10/3/2021	22/08/2020 -	15/3/2021	Task Completed				100%		Tender report was submitted on 15 Mar 2021
	Acceptance of tender award for mech work (C9)	22/08/2020 ->	15/3/2021	29/08/2020 -	19/3/2021	Task Completed				100%		Tender award on 19 Mar 2021.
	Preparation of subletting package for elect work (C9)	01/08/2020 -> 01/12/2020*	2/2/2021	08/08/20 -> 08/12/2020*	1/3/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. Subletting package resubmitted on 26 Feb 2021 and AECOM accepted on 1 Mar 2021..
	Tender invitation for elect work (C9)	01/08/2020 ->	2/3/2021	15/08/2020 -	9/3/2021	Task Completed				100%		Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
	Tender Award for elect work (C9)	08/08/20 ->	10/3/2021	22/08/2020 -	15/3/2021	Task Completed				100%		Tender report was submitted on 15 Mar 2021
	Acceptance of tender award for elect work (C9)	15/08/2020 -> 15/12/2020*	15/3/2021	29/08/2020 -> 29/12/2020*	19/3/2021	Task Completed				100%		Tender award on 19 Mar 2021.
Construction of Temporary Filtrate Equalisation System	Construction of minor civil works under PMI 014	22/08/2020 -> 22/12/2020*	5/10/2020	15/10/2020	31/3/2021	Task Completed				100%	Bestwise	Utilities survey report of lifting well and EQ tank were submitted on 23 Sept 2020 and 29 Sept 2020. AECOM commented lifting well on 29 Sept 2020.
	RC Structure Works of lifting well	7/11/2020	12/1/2021	30/12/2020	25/2/2021	Task Completed				100%		
	Construction of concrete plinth for filtrate EQ tank	23/1/2021	8/2/2021	1/2/2021	26/2/2021	Task Completed				100%		
	Offsite fabrication and delivery of filtrate EQ tank	31/10/2020	16/1/2021	2/2/2021	4/3/2021	Task Completed				100%		First batch of filtrate EQ tank panel was delivered on 4 Mar 2021.
	Onsite assembly of filtrate EQ tank	2/2/2021	1/3/2021	12/3/2021	16/4/2021	Task Completed				100%		
6B.2.16 Temporary Filtrate Equalisation System	Mechanical Installation	17/3/2021	30/3/2021	12/4/2021	14/5/2021	Task Completed				-		
	Electrical Installation	13/3/2021	29/3/2021	15/4/2021	10/12/2021	Task Completed				-		PLC programme for water spray system (stage 1) is on-going, motorized gate valve for stage 2 under PMI is being fabricated and the delivery lead time is by end November.
	Testing and Comissioning	15/4/2021	22/4/2021	1/5/2021	30/11/2022	Completed				-		Defect rectification for BCM comments was partially completed and Site Acceptance Test (72 hours) was completed.
6B.1.17 Overall plant treatment process review by the Treatment Process Specialist	Submission of Treatment Process Specialist's review report	1/6/2020	1/6/2020	30/6/2020	2/7/2020	Task Completed				-	Bestwise	Preliminary Draft submitted, meeting completed on 15 May 2020 with SRE and TPS. Initial process design evaluation was submitted on 20 May 2020. Design calculation submitted on
	Acceptance of submission for further design	14/6/2020	3/7/2020	30/6/2020	17/7/2020	Task Completed				-		

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6B Overall plant process equipment sizing review	Submission of Contractor's Design Calculation for	1/6/2020	1/6/2020	30/6/2020	2/7/2020	Task Completed				-	Bestwise	Preliminary Draft submitted, meeting completed on 15 May 2020 with SRE and TPS. Initial
	Acceptance of submission for further detail design	14/6/2020	3/7/2020	30/6/2020	17/7/2020	Task Completed				-		
6B.2.1 Inlet Works	Submission of Contractor's Design for Inlet Works No. 1	6/9/2020	16/11/2020	14/5/2021	31/1/2023	106%				-	Bestwise	All finalized design calculations for Inlet Works no.1 shall be submitted by 20 Jan 2023.
	Submission of P&M Submission	6/9/2020	7/9/2020	14/5/2021	31/1/2023	105%						P&M0022 - Inlet Pumps (status: B) P&M0003 - Coarse Screens & Fine Screens (status: B) P&M0085 - Grit Traps (status: B) P&M0084 - Screw Compactor (status: B) P&M0042 - Screw Conveyors for Coarse Screens and Fine Screens (status: B) All P&M for Inlet Works no.1 shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	6/9/2020	14/5/2021	29/12/2020	Task Completed						PID (rev.B) submitted on 13 Nov 2020. AECOM accepted subject to comments on 29 Dec 2020.
	Submission of GA Drawing	6/9/2020	5/1/2021	14/5/2021	31/1/2023	106%						E&M GA submission DWG0082 resubmitted on 9 July 2021. AECOM commented on 19 Feb 2021. Bestwise reviewed GA in BIM with AECOM on 12 Jan 2022. Electrical GA DWG0095 resubmitted on 3 July 2021. AECOM commented on 21 Apr 2021. Bestwise reviewed GA in BIM with AECOM on 12 Jan 2022. All finalized drawings for Inlet Works no.1 shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 5, 12, 19/5/2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	31/1/2023	106%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. All finalized drawings for Inlet Works no.1 shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/1/2023	108%				-		
	Submission of detailed design for electrical installation for Inlet Works No. 1 (CDS021)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for Inlet Works No. 1 (CDS025-1)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation BS for Inlet Works No. 1 (CDS034-1)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for Inlet Works No. 1 up to +8.0 mPD (CDS080-1)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Inlet Works No. 1 up to +8.0 mPD (First Draft))	15/7/2020	15/7/2020	15/8/2020	17/9/2020	Task Completed	no.	3	3	100%		1st draft of drawing submitted on 17 September 2020
	KD1A: Submission of civil requirement drawing for Inlet Works No. 1 up to +8.0 mPD (Final)	28/8/2020	18/9/2020	5/11/2020	5/11/2020	Task Completed	no.	3	3	100%	Bestwise	Bestwise resubmitted (rev.A) on 27 Oct 2020.
	KD1A: Submission of electrical schematic drawings for Inlet Works No. 1 (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for Inlet Works No. 1 (Final)	7/9/2020	1/10/2020	5/11/2020	20/10/2020	Task Completed	no.	2	2	100%	Bestwise	Bestwise submitted on 20 Oct 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.2 Primary Sedimentation Tank No. 1-4	Submission of Contractor's Design for Primary Sedimentation Tanks No. 1-4	6/9/2020	28/12/2020	14/5/2021	31/3/2023	99%				-	Bestwise	PFD (rev.B) under DWG0004 submitted on 22 June 2021. Finalized design calculations for PST shall be submitted by 20 Jan 2023.
	Submission of P&M Submission	6/9/2020	26/11/2020	14/5/2021	31/3/2023	99%						P&M0058 - Lamella Plate Settler (status: B) P&M0097 - Scum Skimmer and Scum Collection Pipe (status: C) P&M0086 - Sludge Bottom Scraper (status: C) P&M0051 - Drain Pump (status: C) P&M0044 - Primary Sludge Pump (status: B) Finalized material submissions for PST shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	2/10/2020	14/5/2021	24/6/2021	Task Completed						PID under DWG0037 (rev.1) submitted on 24 June 2021 and is accepted by AECOM.
	Submission of GA Drawing	6/9/2020	3/2/2021	14/5/2021	31/3/2023	99%						Mechanical GA was submitted on 19 Jun 2021. Electrical GA under DWG0103 (rev.1) was submitted on 6 Jul 2021 and is accepted by AECOM. Finalized drawings for PST shall be submitted by 30 Aug 2022.

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	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	31/3/2023	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Finalized drawings for PST shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	2/4/2021	29/5/2021	31/3/2023	98%				-		Refer to outstanding list under "Certificate of completion no.1 - section 1 of the works".
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for Primary Sedimentation Tanks (CDS025-2)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for Primary Sedimentation Tanks up to +8.0 mPD (CDS080-2)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Primary Sedimentation Tanks No. 1-4 up to +8.0 mPD	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	4	4	100%		1st part of drafted drawing (2 nos.) was submitted on 23 Sept 2020. Remaining drawings (2 nos.) were submitted on 30 Sept 2020.
	KD1A: Submission of civil requirement drawing for Primary Sedimentation Tanks No. 1-4 up to +8.0 mPD	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	4	4	100%	Bestwise	Bestwise resubmitted (Rev.A) on 27 Oct & 13 Nov 2020.
	KD1A: Submission of electrical schematic drawings for Primary Sedimentation Tanks No. 1-4 (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for Primary Sedimentation Tanks No. 1-4 (Final)	7/9/2020	1/10/2020	5/11/2020	20/10/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise submitted on 20 Oct 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.3 Chemical Storage and Dosing System	Submission of Contractor's Design for Chemical Dosing System (CDS006)	6/9/2020	7/1/2021	14/5/2021	29/10/2021	Task Completed				-	Bestwise	Design calculation (rev.0) of CHS1 and TCHS submitted on 2 Sep 2020 and 28 Aug 2020, AECOM commented on 24 Sep and 6 Oct 2020, Bestwise submitted CDS0060 on 15 Jul 2021 and CDS0044 on 19 Jul 2021. Finalized design calculation for chemical systems was submitted on 29 Oct 2021.
	Submission of P&M Submission	6/9/2020	6/9/2020	14/5/2021	30/10/2021	Task Completed						Finalized material submissions for chemical system was submitted on 30 Oct 2021.
	Submission of P&ID Drawing	6/9/2020	11/12/2020	14/5/2021	29/6/2021	Task Completed						PID resubmitted under DWG0053 (rev.1) on 28 Jun 2021, DWG0057 (rev.1) on 29 Jun 2021 and DWG0058 (rev.1) on 29 Jun 2021.
	Submission of GA Drawing	6/9/2020	8/2/2021	14/5/2021	31/1/2023	107%						Electrical GA drawings for CS1 under DWG0096 submitted on 10 April 2021. AECOM accepted subject to comments on 17 Apr 2021. Mechanical GA drawings for CS1 submitted on 1 April 2021. AECOM commented on 24 April 2021. Bestwise resubmitted DWG0093 (rev.1) on 30 Jun 2021 and is accepted by AECOM. Mechanical GA for Temp CS submitted on 12 Jun 2021. All finalized drawings for chemical systems shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 17, 21, 28/4/2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	31/3/2023	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. All finalized drawings for chemical system shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/3/2023	98%				-		
	Submission of detailed design for electrical installations	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installations	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installations	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	KD1A: Submission of civil requirement drawing for	15/7/2020	15/7/2020	15/8/2020	16/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 15 September for CHS1 and 16 September 2020 for
	KD1A: Submission of civil requirement drawing for	7/9/2020	17/9/2020	5/11/2020	5/11/2020	Task Completed	no.	2	2	100%		Bestwise resubmitted (Rev.A) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed				-		1st draft of drawing to be submitted by 16 September 2020
	KD1A: Submission of electrical schematic drawings for Chemical System No. 1 and No. 2 (Final)	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Temporary Chemical System up to +8.0 mPD (First	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 15 September 2020
	KD1A: Submission of civil requirement drawing for Temporary Chemical System up to +8.0 mPD (Final)	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (Rev.A) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for Temporary Chemical System (First Draft)	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed				-		1st draft of drawing to be submitted by 16 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020

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6B.2.4 Membrane Bioreactor (MBR) System - Bio Reactor 2A and 2B	Submission of Contractor's Design for Bioreactor 2A and 2B (CDS004)	6/9/2020	12/1/2021	14/5/2021	31/3/2023	99%				-	Bestwise	PFD (rev.1) submitted on 3 Nov 2020. AECOM accepted on 7 Dec 2020 subject to comment. MBR system process and design calculation (rev.2) submitted on 6 Nov 2020. AECOM accepted on 17 Nov 2020 subject to comments. Electrical CDS submitted on 23 Jun 2021. Finalized design calculations shall be submitted by 20 Jan 2023.
	Submission of P&M Submission	6/9/2020	26/11/2020	14/5/2021	31/3/2023	99%						P&M0060 - Pre-treatment Fine Screen (status: B) P&M0053 - MLR Pump (status: B) P&M0118 - Scum Skimmer & Scum Pump (status: C) P&M0088 - Fine Bubble Air Diffuser (status: B) P&M0xxx - Wash Compactor (status: B) P&M0041 - Submersible Mixer (status: B) Finalized material submission shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	2/11/2020	14/5/2021	2/7/2021	Task Completed						PID (Rev.1) under DWG0042 resubmitted on 6 July 2021.
	Submission of GA Drawing	6/9/2020	17/2/2021	14/5/2021	31/3/2023	99%						Mechanical GA under DWG0132 submitted on 26 Jun 2021 and is accepted by AECOM. Electrical GA submitted on 23 Jun 2021. Finalized drawing shall be submitted by 30 June 2022. BIM GA review meeting is scheduled on 1, 8, 15/6/2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	31/3/2023	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/3/2023	98%				-		Refer to outstanding list under "Certificate of completion no.1 - section 1 of the works".
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for BR 2A and 2B (CDS025-3)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for BR 2A and 2B up to +8.0 mPD (CDS080-3)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for BR 2A and 2B up to +8.0 mPD (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of civil requirement drawing for BR 2A and 2B up to +8.0 mPD (Final)	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	2	2	100%	Bestwise	AECOM commented on 23 Oct 2020, Bestwise resubmitted on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for BR 2A and 2B (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed				-		1st draft of drawing was sent to AECOM via email on 15 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.4 Membrane Bioreactor (MBR) System - Membrane Filtration System No. 2 (MFB No. 2)	Submission of Contractor's Design for Membrane Filtration System (CDS005)	6/9/2020	11/1/2021	14/5/2021	31/3/2023	99%				-	Bestwise	PFD (rev.1) submitted on 3 Nov 2020. AECOM accepted on 10 Dec 2020 subject to comment. MBR system process and design calculation (rev.2) submitted on 6 Nov 2020. AECOM accepted on 17 Nov 2020 subject to comments. Finalized design calculations shall be submitted by 30 Aug 2022.
	Submission of P&M Submission	6/9/2020	19/11/2020	14/5/2021	31/3/2023	99%						P&M0072 - Membrane Module (status: B) P&M0069 - Permeate Pump (status: B) P&M0047 - RAS Pump (status: B) P&M0050 - Drain Pump (status: B) P&M0074 - Air Scour Blower (status: C) P&M0073 - Aeration Blower (status: C) P&M0093 - Air Compressor (status: C) P&M0091 - Chemical Pump (status: B) P&M0xxx - Chemical Tank (to be submitted) Finalized material submission shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	30/10/2020	14/5/2021	2/7/2021	Task Completed						DWG0049 (Rev.1) was resubmitted on 2 Jul 2021.
	Submission of GA Drawing	31/3/2021	18/2/2021	14/5/2021	31/3/2023	99%						DWG0121 (rev.1) was resubmitted to AECOM on 17 Jul 2021 Finalized drawings shall be submitted by 30 June 2022. BIM GA review meeting is scheduled on 19, 26/5/2022 and 2/6/2022 (Lower part) BIM GA review meeting is scheduled on 16, 23, 30/6/2022 (Upper part)
	Submission of Electrical Drawing	15/4/2021	15/1/2021	14/5/2021	31/3/2023	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Electrical GA under DWG0079 (rev.1) was resubmitted on 8 Jul 2021. Finalized drawings shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/3/2023	98%				-		
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation BS for MFB (CDS034-4)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						

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		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of civil work requirements for MFB up to	1/9/2020	1/9/2020	30/9/2020	30/9/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	7	7	100%		1st draft of drawing submitted on 30 September
	KD1A: Submission of civil requirement drawing for MFB No. 2 up to +8.0 mPD (Final)	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	7	7	100%	Bestwise	Bestwise resubmitted (Rev.1) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	3	3	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for MFB No. 2 (Final)	7/9/2020	1/10/2020	5/11/2020	20/10/2020	Task Completed	no.	3	3	100%	Bestwise	Bestwise submitted (Rev.1) on 20 Oct 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.6 Deodorisation System (EQT-001 - Deodorization Unit)	Tender invitation (C11)	17/4/2020	17/4/2020	24/4/2020	24/4/2020	Task Completed				100%		
6B.2.6 Deodorisation System (EQT-001 - Deodorization Unit)	Tender award (C11)	25/4/2020	25/4/2020	12/5/2020	12/5/2020	Task Completed				100%	Bestwise	Bestwise submitted tender report on 13 May 2020. AECOM commented on 23 July 2020, Bestwise to resubmit.
	Acceptance of tender award (C11)	13/5/2020	13/5/2020	21/5/2020	21/5/2020	Task Completed				100%		
	Submission of Contractor's Design for Deodorisation System , DOU No. 1 (CDS0019 & CDS0045)	6/9/2020	6/9/2020	14/5/2021	31/12/2021	Task Completed				-		Design Calculation (Rev.0) was submitted on 24 Nov 2020. AECOM commented on 6 Jan 2021, Bestwise to resubmit. Bestwise submitted CDS0045 on 3 June 2021. Finalized design was completed.
	Submission of P&ID Drawing of DOU No. 1	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 1	6/9/2020	6/9/2020	14/5/2021	31/1/2023	105%						GA submitted on 21 Jun 2021 Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 11, 18, 25/5/2022.
	Submission of Electrical Drawing of DOU No. 1	21/3/2021	30/1/2021	14/5/2021	31/3/2023	99%						Control wiring diagrams was resubmitted on 1 April 2021. AECOM commented on 23 Apr 2021. Bestwise to resubmit. Finalized drawings shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/3/2023	98%				-		
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 1 up to +8.0 mPD (First Draft)	15/7/2020	15/7/2020	15/8/2020	28/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing was submitted on 28 September 2020
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 1 up to +8.0 mPD (Final)	28/8/2020	29/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise resubmitted (rev.1) on 5 Nov 2020.
	Submission of Contractor's Design for Deodorisation System , DOU No. 2A (CDS0019 & CDS0048)	6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed				-		CDS0019: Design Calculation for Deodorisation System (status: B) CDS0048: Design Calculation on DOU2A - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 2A	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 2A	6/9/2020	3/8/2020	14/5/2021	31/1/2023	105%				-	Bestwise	Bestwise submitted (rev.1) on 30 Nov 2020. AECOM commented on 16 Dec 2020. Bestwise to resubmit. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 1, 8, 15/6/2022.
	Submission of Electrical Drawing of DOU No. 2A	21/3/2021	26/1/2021	14/5/2021	31/3/2023	99%						Bestwise submitted (rev.0) on 26 Jan 2021, AECOM commented on 4 Feb 2021. Bestwise to resubmit. Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/3/2023	98%				-		
	Submission of Contractor's Design for Deodorisation System , DOU No. 3A (CDS0019 & CDS0055)	6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed				-		CDS0019: Design Calculation for Deodorisation System (status: B) CDS0055: Design Calculation on DOU3A - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 3A	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 3A	6/9/2020	8/7/2020	14/5/2021	31/1/2023	105%				-	Bestwise	Bestwise submitted (rev.1) on 28 Oct 2020. AECOM commeneted on 16 Dec 2020. Bestwise resubmitted on 24 June 2021. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 27/4/2022, 4, 11/5/2022.
	Submission of Electrical Drawing of DOU No. 3A	21/3/2021	26/2/2021	14/5/2021	31/3/2023	99%						Bestwise submitted on 17 Apr 2021. AECOM commented on 27 Apr 2021. Bestwise to resubmit. GA submitted on 24 Jun 2021 Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/3/2023	98%						
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 3A up to +8.0 mPD	15/7/2020	15/7/2020	15/8/2020	28/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing was submitted on 28 September 2020
	KD1A: Submission of civil requirement drawing for	28/8/2020	29/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise resubmitted (rev.1) on 5 Nov 2020.

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		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of Contractor's Design for Deodorisation System , DOU No. 3B (CDS0019 & CDS0049)	6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed						CDS0019: Design Calculation for Deodorisation System (status: B) CDS0049: Design Calculation on DOU3B - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 3B	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 3B	6/9/2020	6/9/2020	14/5/2021	31/1/2023	105%						Bestwise submitted DWG0081 (rev.0) on 5 Feb 2021. AECOM commeneted on 12 Mar 2021. Bestwise to resubmit. Finalized drawings shall be submitted by 30 June 2022 and BIM GA revew meeting is scheduled on 16, 23, 30/6/2022.
	Submission of Electrical Drawing of DOU No. 3B	21/3/2021	22/2/2021	14/5/2021	31/3/2023	99%						GA submitted on 24 Jun 2021 Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/3/2023	98%				-		
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for MFB up to	1/9/2020	1/9/2020	30/9/2020	30/9/2020	Task Completed						
	Submission of civil requirement drawing for MFB up to	28/8/2020	28/8/2020	2/11/2020	2/11/2020	Task Completed						
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed				-		1st draft of drawing to be submitted by 30 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
04SC008 - Design, Supply and Installation of detailed design for lifting appliances	Acceptance of tender award (C9)	-	-	-	6/7/2020	Task Completed				100%	-	AECOM accepted tender report on 6 July 2020.
	Submission of detailed design for lifting appliances for Inlet Works No. 1 (CDS050-1)	6/9/2020	5/12/2020	6/9/2020	31/3/2023	99%						DWG 0055 (Rev.0) was submitted on 13 Mar 2021. AECOM commented on 20 Apr 2021. Bestwise to resubmit. Bestwise submitted P&M0025 on 15 June 2021. Finalized design shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for Primary Sedimentation Tanks (CDS050-2)	6/9/2020	5/12/2020	6/9/2020	31/3/2023	99%						DWG 0054 (Rev.0) was submitted on 18 Jan 2021. AECOM commented on 9 Mar 2021. Bestwise to resubmit. Finalized design shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for BR 2A and 2B (CDS050-3)	6/9/2020	5/12/2020	6/9/2020	31/3/2023	99%						DWG 0065 (Rev.0) was submitted on 18 Jan 2021. AECOM commented on 9 Mar 2021. Bestwise to resubmit. P&M-0026 (Rev.1) received status B. Finalized design calculation shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for MFB (CDS050-4)	6/9/2020	5/12/2020	6/9/2020	31/3/2023	99%						DWG 0066 (Rev.1) was submitted on 1 Mar 2021. AECOM commented on 5 Mar 2021. Bestwise to resubmit. P&M-0027 (Rev.1) received status B. Finalized design calculation shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for Temporary Filtration Tank (CDS050-5)	6/9/2020	5/12/2020	6/9/2020	21/5/2021	Task Completed						DWG 0051 (Rev.2) was resubmitted on 7 May 2021 and acceptance by AECOM subject to condition on 21 May 2021. Bestwise submitted P&M0021 on 21 June 2021.
Building Services System	Submission for MVAC system	N/A	10/12/2020	N/A	31/3/2023	99%						Design calculations and drawings for inlet works was submitted on 16 Dec 2020. AECOM commented on 15 Jan 2021 and 20 Jan 2021. Design calculations and drawings for PST was submitted on 30 Dec 2020. AECOM commented on 22 Jan 2021 and 26 Jan 2021. Design calculations and drawings for MFB2 was submitted on 29 Jan 2021. AECOM commented on 26 Mar 2021. Subletting package resubmitted by 18 Mar 2021. AECOM accepted on 19 Mar 2021. Finalized design shall be submitted by 20 Jan 2023.
	Submission for Fire Services System	N/A	15/3/2021	N/A	31/3/2023	99%						Subletting Package to be resubmitted by 31 Mar 2021. AECOM accepted on 9 Apr 2021. Drawings: Inlet Works: submitted on 8 June 2021. PST 1-4: submitted on 23 Jun 2021 BR2A &2B: submitted on 8 Jun 2021 MFB 2: submitted on 8 Jun 2021 Finalized design shall be submitted by 20 Jan 2023.
	Submission for Plumbing and Drainage System	N/A	15/3/2021	N/A	31/3/2023	99%						Subletting Package resubmitted by 10 Mar 2021. AECOM accepted on 12 Mar 2021. Tender invitation was conducted on 15 Mar 2021 and closed on 26 Mar 2021. Finalized design shall be submitted by 20 Jan 2023.
	Submission for Electrical Services System	N/A	10/12/2020	N/A	31/3/2023	99%						GA for lighting was submitted on 18 Dec 2020. AECOM commented on 6 Jan 2021. Bestwise to resubmit. GA for small power system was submitted in 8 Feb 2021. AECOM commented on 3 Mar 2021. Bestwise to resubmit. Finalized design shall be submitted by 20 Jan 2023.

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		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of ELV system	N/A	8/1/2021	N/A	31/3/2023	99%						GA for CCTV was resubmitted on 16 Mar 2021. AECOM commented on 30 Mar 2021. Bestwise resubmitted on 25 Jun 2021. Finalized design shall be submitted by 20 Jan 2023.
	Submission for PV system	N/A	15/3/2021	N/A	31/3/2023	99%						Tender package was submitted to AECOM. Finalized design shall be submitted by 20 Jan 2023.
SCADA System & PMS	Submission for SCADA system	N/A	11/2/2021	N/A	31/3/2023	99%						Revised SCADA structure was provided via email on 9 Apr 2021 and tender package is under preparation. Finalized design shall be submitted by 20 Jan 2023.
	Submission for PMS system	N/A	8/3/2021	N/A	31/3/2023	99%						Tender package to be resubmitted on 29 June 2021. Finalized design shall be submitted by 20 Jan 2023.
	Submission for CMMS & IDMS system	N/A	1/6/2021	N/A	31/3/2023	98%						Finalized design shall be submitted by 20 Jan 2023.
Section 2 of Works												
Street Fire Hydrant Pump Room	KD1A: Submission of civil requirement drawing for	15/7/2020	15/7/2020	15/8/2020	17/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 17 September 2020
	KD1A: Submission of civil requirement drawing for	28/8/2020	18/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (rev.1) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed						1st draft of drawing to be submitted by 30 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
FS & Sprinkler Pump Room	KD1A: Submission of civil requirement drawing for FS	15/7/2020	15/7/2020	15/8/2020	17/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 17 September 2020
	KD1A: Submission of civil requirement drawing for FS	28/8/2020	18/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (rev.1) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed						
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
	Fire Services Installation Work	1/3/2023	16/3/2023	16/7/2023	31/7/2023							
Emergency Generator House	KD1A: Submission of civil requirement drawing for Emergency Generator House up to +8.0 mPD (First Draft)	15/7/2020	15/7/2020	15/8/2020	18/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 18 September 2020
	KD1A: Submission of civil requirement drawing for Emergency Generator House up to +8.0 mPD (Final)	28/8/2020	19/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (rev.1) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020							
	KD1A: Submission of electrical schematic drawings for Street Fire Hydrant Pump Room (Final)	7/9/2020	1/10/2020	5/11/2020	5/11/2020							
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
DOU3A	Material Delivery	7/3/2023	7/3/2023	7/5/2023								
	Mechanical Installation for DOU3A	8/3/2023		6/7/2023								
	Testing & Commissioning											
Lightning Protection System for DOU3A (underground)	Submission and Acceptance for Lightning Protection System Design	6/12/2021	6/12/2021	31/1/2022	31/1/2022	Task Completed						
	Material Delivery	7/2/2022	7/2/2022	28/2/2022	28/2/2022	Task Completed						
	Installation Work	31/3/2022	26/4/2022	5/5/2022	5/5/2022	Task Completed						
	Testing & Commissioning	7/1/2023	7/1/2023	31/1/2023	31/1/2023							
Lightning Protection System for Inlet Works (underground)	Submission and Acceptance for Lightning Protection System Design	20/12/2021	20/12/2021	31/1/2022	31/1/2022							
	Material Delivery	15/12/2022	1/10/2022	31/3/2022	31/10/2022							
	Installation Work	15/3/2022	1/11/2022	30/10/2022	14/12/2022							
	Testing & Commissioning	1/11/2022	15/12/2022	15/11/2022	31/12/2022							
MFB No.2	Rail Beam Installation at B2	8/5/2023	8/5/2023	7/7/2023	7/7/2023							

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		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
Section 3 of Works												
6B.2.12 Provision of New Replacement Filter Plates	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	21/4/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 21 April 2020
	Acceptance of submission of onsite survey plan	1/3/2020	25/3/2020	30/3/2020	12/5/2020	Task Completed				100%	-	Survey plan acceptance received on 12 May 2020. Onsite discussion with ST1 was
	Submission of onsite survey report	21/5/2020	21/5/2020	29/5/2020	29/5/2020	Task Completed				100%		
	Acceptancce of onsite survey report	30/5/2020	30/5/2020	15/6/2020	15/6/2020	Task Completed				-		
	Preparation of procurement package (C11)	22/6/2020	22/6/2020	6/7/2020	14/7/2020	Task Completed				100%		
	Tender invitation (C11)	15/7/2020	15/7/2020	22/7/2020	24/7/2020	Task Completed				100%		
	Tender Award (C11)	23/7/2020	25/7/2020	29/7/2020	31/7/2020	Task Completed				100%		Revised survey report (second draft) was sent to AECOM on 21 Oct 2020. Technical
6B.2.12 Provision of New Replacement Filter Plates for Existing Membrane Filter Presses at Existing Sludge Press House	Material Submission	21/8/2020	21/8/2020	28/8/2020	7/12/2020	Task Completed				100%		Material submission (Rev.1) resubmitted on 7 Dec 2020. AECOM accepted subject to comments on 24 Dec 2020. Material submission (Rev. 2) resubmitted on 12 Jan 2021. AECOM accepted subject to comment on 22 Jan 2021.
6B.2.12 Provision of New Replacement Filter Plates for Existing Membrane Filter Presses at Existing Sludge Press House	Material Delivery	1/12/2020	1/12/2020	8/8/2021	13/7/2021	Task Completed				-		Handed over to DSD.
	Completion Date of Section 3: 22 September 2021											
Subcontracting												
	Submission of subletting package for acceptance	1/1/2020	6/3/2020	30/3/2020	6/3/2020	Task Completed				100%	-	
	Acceptance of subletting package	1/3/2020	21/3/2020	30/3/2020	21/3/2020	Task Completed				100%	-	
	Tender invitation	1/3/2020	24/3/2020	1/4/2020	30/3/2020	Task Completed				100%	-	
	Tender award	22/3/2020		14/4/2020	6/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 6 April 2020
	Acceptance of tender award	-	-	-	15/4/2020	Task Completed				100%		AECOM accepted tender report on 15 April 2020
Construction of *Contractor*'s site accommodation in WA1-C	Design of MiC	15/4/2020	16/4/2020	1/6/2020	15/8/2020	Task Completed				100%		Revised layout drawings received from AluHouse on 28 May 2020. Comments provided to AluHouse on 2 June 2020.
	Submission of detailed design including foundation works, septic tank	1/7/2020	1/7/2020	14/7/2020	4/9/2020	Task Completed				100%		Design calculation of foundation work was submitted on 7 July 2020, comment received on 27 July 2020. Bestwise to resubmit.
	Site Clearence Work	15/7/2020	20/7/2020	31/7/2020	15/8/2020	Task Completed				100%		Tender invitation commenced on 29 May 2020 and tenders received on 4 June 2020. Tender
	Off-site fabrication of Septic tank	15/7/2020	20/7/2020	31/7/2020	31/7/2020	Task Completed				100%		Site clearence work started on 20 July 2020
	Submission of method statement with ICE certificate	1/8/2020	1/8/2020	7/8/2020	8/10/2020	Task Completed				100%		CV of ICE was submitted on 4 August 2020 and accepted on 25 August 2020
	Submission of design calculation with ICE certificate	1/8/2020	1/8/2020	7/8/2020	8/10/2020	Task Completed				100%		Design calculation of foundation work was submitted on 7 July 2020, comment received on
	Acceptance of method statement and design calculation	8/8/2020	9/10/2020	14/8/2020	16/10/2020	Task Completed				100%		Method Statement and Design Calculation was submitted on 8 Oct 2020.
	Submission of method statement with ICE certificate	1/8/2020	1/8/2020	7/8/2020	23/11/2020	Task Completed				100%		
	Submission of design calculation with ICE certificate	1/8/2020	1/8/2020	7/8/2020	23/11/2020	Task Completed				100%		
	Acceptance of method statement and design calculation	8/8/2020	24/11/2020	14/8/2020	27/11/2020	Task Completed				100%		
	Excavation work	17/8/2020	21/10/2020	18/8/2020	21/10/2020	Task Completed				100%		
	Installation of septic tank	19/8/2020	21/10/2020	20/8/2020	22/10/2020	Task Completed				100%		
	Construction of RC foundation	21/8/2020	23/10/2020	31/8/2020	12/11/2020	Task Completed				100%		
	Off-site fabrication and delivery of MiC Office	1/6/2020	30/9/2020	31/7/2020	4/12/2020	Task Completed				100%		
	On-site installation of MiC Office	1/8/2020	4/12/2020	30/8/2020	5/1/2021	Task Completed				100%		
	Installation of car park shelter	4/1/2021	7/1/2021	11/1/2021	9/1/2021	Task Completed				100%		Subject to the completion of car park shelter of PM office and JEC office.
04SC003 - Building Information Modeling (BIM)	Submission of subletting package for acceptance (C9)	1/3/2020	25/3/2020	14/3/2020	25/3/2020	Task Completed				100%	-	
	Acceptance of subletting package (C9)	14/3/2020	2/4/2020	30/3/2020	2/4/2020	Task Completed				100%	-	
	Tender invitation (C9)	1/4/2020	1/4/2020	8/4/2020	9/4/2020	Task Completed				100%	-	
	Tender award (C9)	-	-	-	15/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 15 April 2020
	Submission of subletting package for acceptance	14/3/2020	16/3/2020	30/3/2020	20/4/2020	Task Completed				100%	-	Bestwise resubmitted on 20 April 2020
	Acceptance of subletting package	28/3/2020	4/5/2020	13/4/2020	13/5/2020	Task Completed				100%	-	AECOM accepted subletting package on 13 May 2020
	Tender invitation	11/4/2020	19/6/2020	27/4/2020	26/6/2020	Task Completed				-		Invitation to tender was commenced on 19 June 2020 and tender returned on 26 June 2020
	Tender award	25/4/2020	27/6/2020	11/5/2020	4/7/2020	Task Completed				-		Bestwise submitted tender report on 30 June 2020
	Acceptance of tender award	-	-	-	18/7/2020					-		
04SC007 - Independent Beam Plus Consultant	Submission of subletting package for acceptance	1/3/2020	30/3/2020	14/3/2020	30/3/2020	Task Completed				100%	-	
	Acceptance of subletting package	14/3/2020	3/4/2020	30/3/2020	3/4/2020	Task Completed				100%	-	
	Tender invitation	30/3/2020	30/3/2020	9/4/2020	9/4/2020	Task Completed				100%	-	
	Tender award	-	-	-	15/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 15 April 2020
	Acceptance of tender award	-	-	-	17/4/2020	Task Completed				100%	-	AECOM accepted tender report on 17 April 2020

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		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Introduction meeting with IBPC, Cinotech	-	-	-	28/4/2020	Task Completed				100%	-	Meeting completed on 28 April 2020 followed by planning work progress
04SC008 - Design, Supply and Installation of detailed	Submission of subletting package for acceptance (C9)	1/4/2020	17/3/2020	14/4/2020	17/3/2020	Task Completed				100%	-	Bestwise submitted subletting package on 3 April 2020
	Acceptance of subletting package (C9)	14/4/2020	17/4/2020	30/4/2020	28/4/2020	Task Completed				100%	-	AECOM accepted subletting package on 28 April 2020
	Tender invitation (C9)	30/4/2020	6/5/2020	14/5/2020	28/5/2020	Task Completed				100%	-	Invitation to tender was commenced on 6 May 2020 and tender returned on 28 May 2020
	Tender award (C9)	14/5/2020	29/5/2020	30/5/2020	9/6/2020	Task Completed				100%	-	Bestwise submitted tender report on 9 June 2020.
Temporary Primary Sludge Thickener and its	Submission of subletting package (C9) for acceptance	15/05/2020 ->	14/8/2020	15/05/2020 -	27/8/2020	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020.
	Acceptance of subletting package (C9) (Mech)	30/05/2020 -> 30/7/2020*	15/8/2020	15/06/2020-> 15/8/2020*	16/9/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Tender invitation (C9) (Mech)	15/06/2020-> 15/8/2020*	9/9/2020	22/06/2020-> 22/8/2020*	14/10/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender invitation for FRP Tank was conducted on 9 Sep 2020, tender returned on 16 Sep 2020. - Tender invitation for mechanical installation was conducted on 29 Sept 2020, tender returned on 14 Oct 2020,
	Tender award (C9) (Mech)	22/06/2020-> 22/8/2020*	17/9/2020	29/06/2020-> 29/8/2020*	22/10/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender report for FRP Tank was submitted on 24 Sep 2020 and accepted on 9 Oct 2020. - Tender report for mechanical installation submitted on 22 Oct 2020 and accepted on 16 Nov 2020.
	Acceptance of tender award (C9) (Mech)	-	-	-	16/11/2020	Task Completed				100%		
	Submission of subletting package (C9) for acceptance (Elect)	15/05/2020 -> 15/7/2020*	9/12/2020	15/05/2020 - > 30/11/2020*	28/1/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Bestwise resubmitted subcontracting package of electrical installation on 28 Jan 2021
	Acceptance of subletting package (C9) (Elect)	30/05/2020 -> 30/7/2020*	29/1/2021	15/06/2020-> 15/8/2020*	1/2/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Tender invitation (C9) (Elect)	15/06/2020-> 15/8/2020*	1/2/2021	22/06/2020-> 22/8/2020*	11/2/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender invitation commenced on 1 Feb 2021 and returned on 11 Feb 2021
	Tender award (C9) (Elect)	22/06/2020-> 22/8/2020*	11/2/2021	29/06/2020-> 29/8/2020*	23/2/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender report target submitted on 23 Feb 2021 and accepted on 24 Feb 2021
	Acceptance of tender award (C9) (Elect)	-	-	-	26/2/2021	Task Completed				100%		
	Tender invitation (C11)	30/04/2020-> 15/07/2020*	30/4/2020	30/06/2020-> 15/09/2020*	18/11/2020	Task Completed				100%	Bestwise	'- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. -Tender invitation of Primary Sludge Thickener commenced on 22 April 2020 and tender was received on 29 April 2020. Tender queries was requested on 5 May 2020 and received on 7 May 2020. Tender report was commented by PM and resubmitted on 22 May 2020. Accepted by AECOM on 12 Jun 2020. - Tender Invitation of process pumps for the thickening system was commenced on 5 Jun 2020 and tenders were received on 10 June 2020. Tender report submitted to PM on 2 July 2020. - Tender Invitation of activated carbon filter was commenced on 22 Oct 2020 and to be returned on 2 Nov 2020. Tender report submitted on 5 Nov 2020 and accepted on 16 Nov 2020 - Tender Invitation of FRP platform was commenced on 13 Nov 2020 and to be returned on 20 Nov 2020. Tender report submitted on 30 Nov 2020 and accepted on 11 Jan 2020 - Tender Invitation of instrument was commenced on 18 Nov 2020 and to be returned on 25 Nov 2020. Tender report submitted on 30 Nov 2020 - Based on the control philosophy agreed on 23 Dec 2020, motorized and solenoid valves
	Tender award (C11)	15/05/2020-> 29/07/2020*	30/5/2020	15/07/2020-> 15/09/2020*	30/11/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Acceptance of tender award (C11)	-	-	-	18/9/2020					-		
	Design Submission	03/07/2020 -> 15/07/2020*	5/8/2020	21/09/2020-> 02/10/2020*	10/5/2021	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. -Design submission of Process Pumps (Rev.3) resubmitted on14 Apr 2021, AECOM accepted with comments on 7 May 2021. -Design submission of electrical calculation (rev.2) was resubmitted on 29 Apr 2021. AECOM accepted with comments on 10 May 2021. -Control Philosophy (Rev.2) resubmitted on 5 Mar 2021. AECOM accepted subject to comments on 26 Mar 2021.

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		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Plant and Material Submission	21/07/2020 -> 30/07/2020*	21/7/2020	31/08/2020 -> 31/10/2020*	30/6/2021	Task Completed					Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Plant and Material submission of primary sludge thickener was resubmitted on 1 Sep 2020 (Rev. 3) and AECOM accepted on 8 Sep 2020. - Plant and Material submission P&M0002 (Rev.2) of process pumps was submitted on 5 August 2020 and AECOM commented on 26 Aug 2020, Bestwise to re-submitted to AECOM. - Plant and Material submission (Rev.0) for valves was submitted on 16 Nov 2020. AECOM accepted on 14 Dec 2020 subject to comments - Plant and Material submission (Rev.1) for DI pipes and fittings was resubmitted on 3 Dec 2020. AECOM accepted on 14 Dec 2020 - Plant and Material submission (Rev.0) for primary sludge equalization tank was submitted on 5 Feb 2021. AECOM accepted subject to comments on 25 Feb 2021. - Plant and Material submission (Rev.0) for activated carbon filter was submitted on 28 Jan 2021. AECOM accepted subject to comments on 5 Feb 2021. - Plant and Material submission (Rev. 1) for instruments was resubmitted on 13 Mar 2021. AECOM accepted subject to comments on 7 Apr 2021.
	Drawing Submission	03/07/2020 -> 30/07/2020*	3/8/2020	21/09/2020 -> 21/11/2020*	10/2/2021	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - PFD, P&ID, Schematic GA (Rev.3) resubmitted on 22 Jan 2021 according to the finallized control philosophy. AECOM accepted subject to comment on 29 Jan 2021. - Electrical drawing - Bestwise resubmitted electrical drawing (Rev.5) on 22 Mar 2021. AECOM accepted on 16 Apr 2021.
	Material Manufacturing	31/07/2020 -> 30/09/2020*	4/8/2020	21/10/2020 -> 21/12/2020*	20/4/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Manufacturing instruction of PS thickener was issued on 3 August 2020. - Manufacturing instruction of process pumps was issued on 24 September 2020 - Electrical sub-contractor is awarded and manufacturing LCP
	Material Delivery	05/09/2020 ->	4/11/2020	16/11/2020 -	21/6/2021	Task Completed						
	Mechanical Installation	01/10/2020 -> 01/12/2020*	2/2/2021	15/11/2020 -> 15/01/2021*	17/5/2021	Task Completed				-		
	Offsite Fabrication and Delivery of FRP Tank		16/1/2021		7/4/2021	Task Completed				100%		First batch to be delivered on 23 Mar 2021
	Onsite Installation of FRP Tank		7/4/2021		30/7/2021	Task Completed						Water filling to tank completed; Tank hydraulic test completed.
	Electrical Installation	01/10/2020 -> 01/12/2020*	19/3/2021	15/11/2020 -> 15/01/2021*	19/7/2021	Task Completed				-		Energize of all LCPs on 24 May 2021 and isolated prior to system commissioning.
Temporary Primary Sludge Thickener and its accessories (Sub-programme was provided by Bestwise)	Testing and Comissioning	15/11/2020 -> 15/01/2021*	8/5/2021	22/11/2020 -> 22/01/2021*	30/9/2022	Completed				-		Improvement works under PMI are on-going and defect rectification for BCM comments was partially completed. - Testing and Commissioning (3 x 24hrs) completed by End September.
Modification of Existing Emergency Generator Electrical Works	Submission of subletting package (C9) for acceptance	15/10/2020	15/10/2020	31/10/2020	11/12/2020	Task Completed				100%		
	Acceptance of subletting package (C9)	1/11/2020	5/11/2020	15/11/2020	2/1/2021	Task Completed				100%		
	Tender invitation (C9)	16/11/2020	26/1/2021	30/11/2020	5/2/2021	Task Completed				100%		Tender invitation commenced on 26 Jan 2021, and returned on 5 Feb 2021
	Tender award (C9)	30/11/2020	18/2/2021	7/12/2020	18/2/2021	Task Completed				100%		Tender report was submitted on 18 Feb 2021 and accepted on 26 Feb 2021
	Acceptance of tender award (C9)	8/12/2020	18/2/2021	15/12/2020	26/2/2021	Task Completed				100%		
	Design Submission	15/12/2020	15/3/2021	15/1/2021	23/4/2021	Task Completed				100%		DWG-0100 was submitted on 23 Apr 2021. AECOM accepted with comments on 30 Apr
	Transportation of existing dismantled genset no. 2 (Genset No.2) to subcontractor (Click Ltd.)'s workshop	9/3/2021	9/3/2021	9/3/2021	9/3/2021	Task Completed				100%		
	Drawing submission (Drawing of General Layout for Existing 600kVA Genset Container)	23/4/2021	23/4/2021	30/4/2021	30/4/2021	Task Completed				100%		
	Drawing submission (Cable route ,general arrangement, etc)	14/5/2021	28/5/2021	21/5/2021	5 July 2021	Task Completed				100%		
	Material submission P431 P&M-0087	21 May 2021	19 June 2021	28 May 2021	12 July 2021	Task Completed				100%		
	Fabrication of container at PRC	21 June 2021	21 June 2021	TBC	12/8/2021	Task Completed				100%		

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		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Container deliver to HK	TBC	12/8/2021	10/8/2021	12/8/2021	Task Completed				100%		
	Off site modification work at HK factory	TBC	16/8/2021	24/8/2021	24/8/2021	Task Completed				100%		
	FAT plan of modified Genset No.2 P431 MS-036	12/7/2021	12/7/2021	20/8/2021	20/8/2021	Task Completed				100%		
	FAT of Genset No.2 after modification works	25/8/2021	25/8/2021	25/8/2021	25/8/2021	Task Completed				100%		
	Installation Work of I-beam Support	26/8/2021	26/8/2021	26/8/2021	26/8/2021	Task Completed				100%		
	Transportation of Genset No. 2 to existing power house in SWHSTW and completion of the Genset No.2 installation on I-beam supporting frame	27/8/2021	27/8/2021	27/8/2021	27/8/2021	Task Completed				100%		
	Provision of one (1) can of 160L diesel and a diesel hand pump placed at diesel daily tank of Genset No.1 for standby top up (PPMI-012 item L) Location to be coordinated and advised by SWHSTW operator DSD/ST1	27/7/2021	27/7/2021	31/8/2021								Location to be further coordinated with DSD.
	Modification works of existing switchboard	1/9/2021	1/9/2021	8/9/2021	8/9/2021	Task Completed				100%		
	Cables (including control cable and power cables) laying and installation of cable containment, busbar chamber	21/7/2021	30/7/2021	8/9/2021	8/9/2021	Task Completed				100%		
	Supply of busbar chamber/ connection box	10/8/2021	10/8/2021	3/9/2021	3/9/2021	Task Completed				100%		
	Completion of all Genset cables and cable termination work to existing power house in SWHSTW after the completion of Genset No. 2 installation work	1/9/2021	1/9/2021	8/9/2021	8/9/2021	Task Completed				100%		
	Delivery of dummy load and self-test	9/9/2021	9/9/2021	14/9/2021	15/9/2021	Task Completed				100%		
	SAT and T&C (witness by AECOM and DSD/ST1) Please allow 1 week advance notice for coordination with DSD/ST1, e.g. genset signal start, etc.)	15/9/2021	15/9/2021	15/9/2021	16/9/2021	Task Completed				100%		
04SC009 - Design, Supply and Installation of HVSB	Submission of subletting package for acceptance	21/4/2020		1/5/2020		-						
	Acceptance of subletting package	21/5/2020		30/5/2020		-						
	Tender invitation	1/6/2020		14/6/2020		-						
	Tender award	1/7/2020		14/7/2020		-						
04SC010 - Design, Supply and Installation of LVSB	Submission of subletting package for acceptance	1/5/2020		14/5/2020		-						
	Acceptance of subletting package	1/6/2020		14/6/2020		-						
	Tender invitation	14/6/2020		30/6/2020		-						
	Tender award	1/7/2020		14/7/2020		-						
04SC011 - Design and Installation of Building	Submission of subletting package for acceptance	14/4/2020		30/4/2020		-						
	Acceptance of subletting package	14/5/2020		30/5/2020		-						
	Tender invitation	30/5/2020		14/6/2020		-						
	Tender award	21/6/2020		30/6/2020		-						
04SC012 - Facility Computerized Systems	Submission of subletting package for acceptance	14/5/2020		30/5/2020		-						
	Acceptance of subletting package	14/6/2020		30/6/2020		-						
	Tender invitation	1/7/2020		14/7/2020		-						
	Tender award	21/7/2020		14/8/2020		-						
Plant and Materials (Marking Scheme)												
PS Clause no. 6B.2.1 Inlet Pump	Submission of marking scheme for PM's acceptance (fourth draft)	1/5/2020	1/5/2020	1/9/2020	19/8/2020	Task Completed				100%		AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020.
	Submission of marking scheme for PM's acceptance	1/5/2020	1/5/2020	1/9/2020	19/8/2020	Task Completed				100%		Bestwise resubmitted on 19 Aug 2020.
	Acceptance of marking scheme by the PM	15/5/2020	20/8/2020	15/9/2020	1/9/2020	Task Completed				100%		AECOM accepted on 1 Sep 2020
	Tender invitation	29/5/2020	9/9/2020	29/9/2020	18/9/2020	Task Completed				100%		Tender invitation was conducted on 9 Sept 2020 and returned on 18 Sept 2020.
PS Clause no. 6B.2.1 Inlet Pump	Tender award	5/6/2020	19/9/2020	5/10/2020	7/10/2020	Task Completed				100%		Technical Submission Evaluation Report was submitted on 5 Oct 2020, Tender report was submitted on 7 Oct 2020. AECOM noted on 8 Oct 2020.
	Acceptance of tender award	19/6/2020	17/10/2020	19/10/2020	15/11/2020	Task Completed				-		
	Submission of marking scheme for PM's acceptance (third draft)	1/5/2020	14/5/2020	1/9/2020	19/8/2020	Task Completed				100%		AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020
	Submission of marking scheme for PM's acceptance	1/5/2020	14/5/2020	1/9/2020	19/8/2020	Task Completed				100%		Bestwise resubmitted on 19 Aug 2020
PS Clause no. 6B.2.4 MBR Pre-treatment Screen	Acceptance of marking scheme by the PM	15/5/2020	20/8/2020	15/9/2020	1/9/2020	Task Completed				100%		AECOM accepted on 1 Sep 2020
	Tender invitation	29/5/2020	20/11/2020	29/9/2020	11/12/2020	Task Completed				100%		Tender invitation was conducted on 20 Nov 2020 and returned on 11 Dec 2020. Tender

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		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Tender award	5/6/2020	13/12/2020	5/10/2020	3/3/2021	Task Completed				100%		Technical Submission Evaluation Report was submitted on 12 Jan 2021. AECOM noted on 22 Jan 2021. Tender Report was submitted on 4 Feb 2021, AECOM commented on 19 Feb 2021, Bestwise submitted supplementary information on 26 Feb 2021. AECOM noted on 3 Mar
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance	1/5/2020	14/5/2020	1/9/2020	2/9/2020	Task Completed				100%		AECOM commented on 1 September 2020, Bestwise resubmitted on 2 Sep 2020
	Submission of marking scheme for PM's acceptance	1/5/2020	3/9/2020	1/9/2020	2/9/2020	Task Completed				100%		Bestwise resubmitted on 2 Sep 2020
PS Clause no. 6B.2.4	Acceptance of marking scheme by the PM	15/5/2020	20/8/2020	15/9/2020	1/9/2020	Task Completed				100%		AECOM accepted on 1 Sep 2020, subject to conditions.
Air Diffusion System	Tender invitation	29/5/2020	17/2/2021	29/9/2020	12/3/2021	Task Completed				100%		Procurement package would follow the approved format (i.e. aeration blower) Tender invitation was conducted on 17 Feb 2021. Addendum No. 1 was issued on 18 Feb 2021. Tender return date was extended from 26 Feb 2021 to 12 Mar 2021. Tender returned on 12 Mar 2021
	Tender award	5/6/2020	18/3/2021	5/10/2020	20/4/2021	Task Completed				-		Technical Submission Evaluation Report was submitted on 18 Mar 2021. AECOM noted on 30 Mar 2021. Tender Report was submitted on 8 Apr 2021. LOI was issued to supplier.
	Acceptance of tender award	19/6/2020	20/2/2021	19/10/2020	12/3/2021	Task Completed				-		
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance	14/5/2020	14/5/2020	14/9/2020	19/8/2020	Task Completed				100%		AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020
	Submission of marking scheme for PM's acceptance	14/5/2020	14/5/2020	14/9/2020	19/8/2020	Task Completed				100%		Bestwise resubmitted on 19 Aug 2020
PS Clause no. 6B.2.4	Acceptance of marking scheme by the PM	28/5/2020	20/8/2020	28/9/2020	1/9/2020	Task Completed				100%		AECOM accepted on 1 Sep 2020
BR Aeration Blower	Tender invitation	11/6/2020	3/2/2021	12/10/2020	3/3/2021	Task Completed				100%		Procurement package was submitted to AECOM under CGS-066. AECOM replied on 29 Jan 2021. Tender invitation was conducted on 3 Feb 2021. Tender returned on 3 Mar 2021
	Tender award	18/6/2020	4/3/2021	19/10/2020	12/4/2021	Task Completed				-		Technical Submission Evaluation Report was submitted on 10 Mar 2021. AECOM noted on 19 Mar 2021. Tender Report was submitted on 24 Mar 2021. LOI was issued to supplier.
	Acceptance of tender award	2/7/2020	4/3/2021	2/11/2020	25/3/2021	Task Completed				-		AECOM accepted on 1 Sep 2020, subject to conditions.
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance	14/5/2020	1/5/2020	14/9/2020	2/9/2020	Task Completed				100%		AECOM commented on 1 September 2020, Bestwise resubmitted on 2 Sep 2020
	Submission of marking scheme for PM's acceptance	14/5/2020	3/9/2020	14/9/2020	2/9/2020	Task Completed				100%		Bestwise resubmitted on 2 Sep 2020
	Acceptance of marking scheme by the PM	28/5/2020	3/9/2020	28/9/2020	5/9/2020	Task Completed				100%		AECOM accepted on 5 Sep 2020 subject to conditions.
	Tender invitation	11/6/2020	14/9/2020	12/10/2020	5/10/2020	Task Completed				100%		Tender invitation was conducted on 14 Sept 2020 and returned on 5 Oct 2020.
PS Clause no. 6B.2.4 Membrane Modules, Cassettes / Racks	Tender award	18/6/2020	6/10/2020	19/10/2020	2/11/2020	Task Completed				100%		Technical Submission Evaluation Report was submitted on 14 Oct 2020, Tender report was submitted on 2 Nov 2020. AECOM noted on 4 Nov 2020.
	Acceptance of tender award	2/7/2020	3/11/2020	2/11/2020	24/11/2020	Task Completed				-		
	Submission of marking scheme for PM's acceptance (second draft)	14/5/2020	14/5/2020	14/9/2020	19/8/2020	Task Completed				100%		AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020
	Submission of marking scheme for PM's acceptance	14/5/2020	14/5/2020	14/9/2020	19/8/2020	Task Completed				100%		Bestwise resubmitted on 19 Aug 2020
	Acceptance of marking scheme by the PM	28/5/2020	20/8/2020	28/9/2020	1/9/2020	Task Completed				100%		AECOM accepeted on 1 Sep 2020
	Tender invitation	11/6/2020	25/9/2020	12/10/2020	29/10/2020	Task Completed				100%		Tender invitation was conducted on 25 Sept 2020 and returned on 29 Oct 2020.
PS Clause no. 6B.2.4 RAS Pump	Tender award	18/6/2020	30/10/2020	19/10/2020	2/12/2020	Task Completed				100%		Technical Submission Evaluation Report was submitted on 6 Nov 2020. Tender report was submitted on 24 Nov 2020, AECOM noted on 2 Dec 2020.
	Acceptance of tender award	2/7/2020	21/11/2020	2/11/2020	12/12/2020	Task Completed				-		
Usage of WA2-A		-		21/2/2020	21/2/2020	Task Completed				-		Site works including fencing and site clearnace works to be completed by DC/2018/06 by 30/4/2020 WA2C handovered to Bestwise on 21 February 2020