

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

JANUARY 2023

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Contract No. SPW 12/2021 Shek Wu Hui Effluent Polishing Plant – Main Work

Monthly Environmental Monitoring & Audit Report

Jan 2023

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TABLE OF CONTENTS

1	INTROI	DUCTION	8
	1.1 1.2	Scope of the Report	
2	PROJEC	CT BACKGROUND	. 10
	2.1 2.2 2.3	BackgroundProject Organization and Contact PersonnelConstruction Activities	. 10
3	STATUS	S OF REGULATORY COMPLIANCE	. 15
	3.1 3.2	Status of Environmental Licensing and Permitting under the Project Summary of submission status under FEP-02/474/2013	
4	MONIT	ORING REQUIREMENTS	. 18
	4.1 4.2 4.3 4.4	Noise MonitoringAir MonitoringEcological MonitoringWater Quality Monitoring	. 21 . 25
5	MONIT	ORING RESULTS	. 32
	5.1 5.2 5.3 5.4 5.5	Noise Monitoring Results Air Quality Monitoring Results Ecology Monitoring Results Water Quality Monitoring Results Waste Management	. 33 . 34 . 37
6	COMPL	JANCE AUDIT	. 42
	6.1 6.2 6.3 6.4 6.5 6.6	Noise Monitoring	. 42 . 42 . 42 . 42
7	ENVIRO	ONMENTAL SITE AUDIT	. 43
8	COMPL	AINTS, NOTIFICATION OF SUMMONS AND PROSECUTION	. 45
Q	CONCL	LISION	46



LIST OF TABLES

Table 2.1	Contact Details of Key Personnel
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
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
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
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
Table 4.1	Noise Monitoring Station
Table 4.3	Noise Monitoring Equipment
Table 4.4	Action and Limit Level for Noise Monitoring
Table 4.5	Air Monitoring Station
Table 4.6	Air Quality Monitoring Equipment
Table 4.7	Action and Limit Level for Air Quality Monitoring
Table 4.10	Water Quality Stations for Water Quality Monitoring
Table 4.11	Water Quality Monitoring Equipment
Table 4.12	Action and Limit Level for Water Quality Monitoring
Table 5.1	Summary Table of Noise Monitoring Results
Table 5.2	Summary Table of 1-hour TSP Monitoring Results
Table 5.3	Summary Table of 24-hour TSP Monitoring Results
Table 5.4	Total Bird Species and Abundance in the Reporting Month
Table 5.5	Abundance of Representative Waterbirds in the Reporting Month
Table 5.6	T-test Result for All Waterbirds in the Reporting Month
Table 5.7	Observations during Ecological Monitoring in the Reporting Month
Table 5.8	Summary Table of Water Quality Monitoring Results
Table 5.9	Summary Table of Exceedance
Table 5.10	Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract No. DC/2018/06
Table 5.11	Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract No. DC/2018/07
Table 5.12	Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract No. DE/2018/03
Table 5.13	Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract No. DE/2018/04
Table 8.1	Cumulative Statistics on Complaints in the Reporting Month
Table 8.2	Cumulative Statistics on Successful Prosecutions
Table 9.1	Construction Activities and Recommended Mitigation Measures in Coming Reporting Month



LIST OF FIGURES

Figure 2.1	Project Layout
Figure 2.2	Project Organization Chart
Figure 4.1	Locations of Noise Monitoring Station
Figure 4.2	Locations of Air Quality Monitoring Stations
Figure 4.3	Locations of Ecological Monitoring Stations
Figure 4.4	Locations of Water Quality Monitoring Stations
LIST OF API	PENDICES
Appendix 2.	1 Layout Plans of Construction Activities and Site Record Photos
Appendix 3.	1 Environmental Mitigation Implementation Schedule
Appendix 4.	1 Action and Limit Level
Appendix 4.	2 Copies of Calibration Certificates

Appendix 4.3 Wind data Appendix 5.1 Monitoring Schedule for Reporting Month and Next Reporting Month

Appendix 5.2 Noise Monitoring Results and Graphical Presentations
Appendix 5.3 Air Quality Monitoring Results and Graphical Presentat
Appendix 5.4 Details of Ecological Monitoring Results in the Reporting

Air Quality Monitoring Results and Graphical Presentations

Details of Ecological Monitoring Results in the Reporting Month

Photo Record of Ecological Monitoring Appendix 5.6

Water Quality Monitoring Result and Graphical Presentations Appendix 5.7

Appendix 5.8 **Water Quality Monitoring Laboratory Result**

Appendix 5.9 **Monthly Summary Waste Flow Table**

Appendix 5.10 Exceedance Investigation Finding

Appendix 6.1 Event and Action Plans

Summary for Notification of Exceedance Appendix 6.2

Appendix 8.1 **Complaint Log**

Appendix 9.1 Construction Programme of Individual Contracts

EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report January 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 17th 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 January 2023 to 31 January 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:

<u>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</u>

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

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

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

<u>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</u>

- Construction of Pile Cap at Sidestream Treatment Facilities
- Penstock and Stoplog Installation at SAS PS
- MVAC, Plumbing and Electrical Installation at Workshop No.2
- MFA, AFA and SPR System Installation at SDB
- EOT and Monorail Installation at SDB
- T&C for Electrical Installation at UV No.1
- Bio-Gas Holding tank Installation at Bio-Gas Holding Tank
- EOT and Monorail Installation at CHP

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

Improvement Works for Temporary Primary Sludge Thickener and its accessories

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.

Noise Monitoring

- v. Noise monitoring was conducted at three noise monitoring stations once per week in the reporting month.
- vi. No action or limit level exceedance was recorded in this reporting period.

Ecological Monitoring

- vii. 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.
- viii. There was a drop in Chinese Pond Heron abundance, the average number of all waterbirds recorded in January 2023 was similar to those in the same month and season in baseline period. As the decline was considered non-project related, no remedial measure for the project is proposed. The monitoring work will continue next month to evaluate any construction impact on waterbirds.
- ix. Site observation in the reporting month shows that construction activities are similar to previous months.
- x. 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 jagwalking grazing, fishing and landscape planting around the project site. Although, there is no significant impact reduction in number of waterbirds, but it is recommended that construction site should continue.



Water Quality Monitoring

- xi. Water quality monitoring was conducted at two monitoring stations three days per week in the reporting month.
- xii. Eighteen (18) limit level exceedances and one (1) action level exceedance were recorded in the reporting month. Investigation for the exceedances recorded in the reporting month is under process, and investigation report for recorded exceedances will be submitted separately.

Site Inspections and Audit

- xiii. The Environmental Team (ET) conducted weekly site inspections on 3, 10(DE/2018/03 and DE/2018/04), 12(DC/2018/06 and DC/2018/07), 17 and 31 January 2023 and biweekly landscape inspection on 3 and 17 and 31 January 2023. IEC attended the joint site inspection on 31 January 2023. No non-compliance was found during the site inspection while reminders on environmental measures were recommended.
- xiv. No site inspection was conducted between 22 and 28 January 2023, since no construction work was conducted in this week due to Lunar New Year Holiday.

Complaints, Notifications of Summons and Successful Prosecutions

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

Reporting Changes

xvi. There are no particular reporting changes.

Future Key Issues

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

<u>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</u>

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



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

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

<u>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</u>

- Construction of Pile Cap at Sidestream Treatment Facilities
- Plumbing, MVAC and Electrical Installation at Workshop No.2
- Pilework Installation at SAS PS
- Penstock and Stoplog Installation at SAS PS
- SPR, MFA and AFA Installation at SDB
- EOT and Monorail Installation at SDB
- Bio-Gas Holding tank Installation at Bio-Gas Tank
- EOT and Monorail Installation at CHP

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

- Improvement Works for Temporary Primary Sludge Thickener and its accessories
- E&M Installation 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 installation works at Portion B-2, Inert Works

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 (m³/day) at Average Dry Weather Flow (ADWF). In 2001, Stage II of SWHSTW was completed with design capacity enhanced to 80,000 m³/day at ADWF. In 2009, the expansion of SWHSTW was completed and its design capacity was increased to 93,000m³/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 m³/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 <u>Figure 2.2.</u> 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
	Contractor	Environmental Engineer	Ms. Ruby Hui	6218 6408
Kwan Lee - Chun Wo Joint Venture	(DC/2018/06)	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	Environmental	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939
Services Limited	Team (ET)	Environmental Team Respective	Mr. Alex Chan	2839 5629

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.



<u>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</u>

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

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

- 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

- Construction of Pile Cap at Sidestream Treatment Facilities
- Penstock and Stoplog Installation at SAS PS
- MVAC, Plumbing and Electrical Installation at Workshop No.2
- MFA, AFA and SPR System Installation at SDB
- EOT and Monorail Installation at SDB
- T&C for Electrical Installation at UV No.1
- Bio-Gas Holding tank Installation at Bio-Gas Tank
- EOT and Monorail Installation at CHP

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

• Improvement Works for Temporary Primary Sludge Thickener and its accessories

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
	Excavator	7	Section 4, SDB, Outfall, SD, Jacking Pit
DC/2040/00	Tower Crane	1	Near Workshop No.2
DC/2018/06	Mobile generator	1	Near Workshop No.2
	Scissor lift platform	4	SDB and CHP
	Excavator	17	BR2, Inlet, Area C, Area D, MFB, PST and SAS
DC/2018/07	Generator	7	BR2, MFB, PST and Inlet
	Air compressor	1	Inlet
	Mobile Crane	4	PST, MFB and Inlet
DE/2019/02	Generator	6	UV No.1, Sidestream and Workshop No.2
DE/2018/03	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:

<u>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</u>

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



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

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

<u>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</u>

- Construction of Pile Cap at Sidestream Treatment Facilities
- Plumbing, MVAC and Electrical Installation at Workshop No.2
- Penstock and Stoplog Installation at SAS PS
- Pipework Installation at SAS PS
- SPR, MFA and AFA Installation at SDB
- EOT and Monorail Installation at SDB
- Bio-Gas Holding tank Installation at Bio-Gas Tank
- EOT and Monorail Installation at CHP

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

- Improvement Works for Temporary Primary Sludge Thickener and its accessories
- E&M Installation 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 installation works at Portion B-2, Inert Works



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	449210 (Portion A & C)	23 Sep 2019	N/A	Valid
Control (Construction Dust) Regulation	449211 (WM1)	23 Sep 2019	N/A	Valid
Water Pollution Ordinance Licence	WT00035431-2019 (Portion C)	27 Jul 2020	31 Jan 2025	Valid
water Polition Ordinance Licence	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-RN1155-22	28 Nov 2022	28 Feb 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-RN1155-22	28 Nov 2022	28 Feb 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
	455843 (WA3)	6 May 2020	N/A	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	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 <u>Table</u> <u>3.5</u>.

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	Fu Tei Au
NM2*	Footbridge between Fu Tei Au and SWHSTW
NM3	Man Kok Village

^{1.} Remark: Due to close proximity to construction works and heavy machines from another construction project, presence of physical barrier and safety concerns, adjustment for the location of AM2/NM2 were proposed in accordance to Section 2.2.4.6 of the EM&A Manual. It was adjusted from Fu Tei Au to footbridge between Fu Tei Au and SWHSTW. The proposal has sought approval from ER and IEC, and agreement from EPD on 28 Decem2022.

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
Integrated Sound Level Meter	NTi XL2	A2A-15269-EO
Acoustic Calibrator	LD CAL200	13437

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: Leg (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).</p>

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	When one documented complaint is	75 dB
weekdays	received	

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	Fu Tei Au	1-hour TSP
AM2*(1)	Footbridge between Fu Tei Au and SWHSTW	1-hour TSP
AM1a*	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

Remarks

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) $0.6 1.7 \text{ m}^3$ 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;

⁽¹⁾ Due to close proximity to construction works and heavy machines from another construction project, presence of physical barrier and safety concerns, adjustment for the location of AM2/NM2 were proposed in accordance to Section 2.2.4.6 of the EM&A Manual. It was adjusted from Fu Tei Au to footbridge between Fu Tei Au and the SWHSTW. The proposal has sought approval from ER and IEC, and agreement from EPD on 28 December 2022.

- (j) Incorporated with a manometer;
- (k) Able to hold and seal the filter paper to the sampler housing at horizontal position;
- (I) 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
Portable direct	Met One BT- 645 / Met One	Y23153
reading dust meter	AEROCET831	C15622
	Tisch Total Suspended	HVS001 (Serial number: 0401-
High Volume	Particulate Mass Flow	1105)
Sampler	Controlled High Volume Air	HVS003 (Serial number: 1096-
	Sampler (Model no. G3101)	2305)
Wind Anemometer	YGY-FSXY1	YG 21071630T0924

4.2.9. The calibration certificates of the air quality monitoring equipment are attached in <u>Appendix</u> 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 recalibrated 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	Limit Level
Farameter	arameter Monitoring Station		(µgm-3)
	Site boundary of the Shek Wu	189	
24-hour TSP Level	Hui STW (East), Root Floor	109	260.0
2111041101 20101	Site boundary of the Shek Wu	187	200.0
	Hui STW (North)	107	
	House No. 15, Wai Loi Tsuen	320	
1-hour TSP Level	Factbridge between Fu Toi Au		500.0
	Footbridge between Fu Tei Au	322	
	and SWHSTW		

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. <u>Appendix 4.1</u> 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 <u>Figure 4.3</u> and summarized in **Table 4.8** The photo of each transect is provided in <u>Appendix 5.6</u>.

Table 4.8 Ecological Monitoring Stations

Monitoring Stations	Descriptions	Influenced by Tidal Action
Transect T1		
Point Count Location P1		No
Point Count Location P2	Along Ng Tung River	
Transect T2		V
Point Count Location P3		Yes
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



	At Intersection between	
Point Count Location P7	Sheung Yue River and Shek	Yes
	Sheung River	

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	普通鸕鷀
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, Insitu 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°C 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
Multifunctional Meter	YSI Pro Quatro	20M100002/ 20M101455
Turbid meter	Xin Rui WGZ-3B	1807073

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 <u>Appendix 6.1</u> 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
		≥ 14.6 NTU	≥ 15.6 NTU
Turbidity	Depth-	or 120% of upstream control	or 130% of upstream control
(NTU)	average	station's Turbidity at the same	station's Turbidity at the same
		tide of the same day	tide of the same day
		≥ 18.8 mg/L	≥ 19.5 mg/L
SS	Depth-	or 120% of upstream control	or 130% of upstream control
(mg/L)	average	station's SS at the same tide of	station's SS at the same tide of
		the same day	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	56.5 – 58.4	
NM2	62.6 – 65.0	75 dB
NM3	59.8 – 61.7	

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,	Limit Level,
	Average	Range	(µg/m3)	(µg/m3)
AM1	52	16 – 92	320	500
AM2*	40	11 – 70	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*	47	24 – 66	189	500
AM2a	54	21 – 76	187	500

- 5.2.2 No action or limit level exceedance was recorded in this reporting period.
- 5.2.3 According to our field observations, the major dust source identified were nearby road traffic.
- 5.2.4 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	40	1142
Waterbirds	14	225

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	59
Ardea cinerea	Grey Heron	蒼鷺	46
Ardeola bacchus	Chinese Pond Heron	池鷺	18
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	17
Ardea alba	Great Egret	大白鷺	21
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	20
		Total	181

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% 99%	
Abundance	Monthly	-0.852	✓	✓
	Seasonal	-0.567	✓	✓

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.



- 5.3.3 The t-test concluded that the abundance for Chinese Pond Heron was lower than the baseline monitoring result for January and winter at 95% confidence level, 1 Action Level was triggered for ecological monitoring in the reporting month. No Limit Level was triggered.
- 5.3.4 Even though there was a drop in Chinese Pond Heron abundance, the average number of all waterbirds recorded in January 2023 (56 nos.) was similar to those in the same month and season in baseline period (66 and 63 nos. respectively). Besides, no significant change was observed in the average abundance of Little Egret (15 nos. versus 13 nos. recorded in the same month) and that of Eastern Cattle Egret (5 nos. versus 3 nos. recorded in the same month). Due to the fact that both species shares similar niche as Chinese Pond Heron, it is unlikely that project activity (e.g. noise) would affect one species only. As the decline was considered non-project related, no remedial measure for the project is proposed. The monitoring work will continue next month to evaluate any construction impact on waterbirds.
- 5.3.5 Site observation in the reporting month shows that construction activities are similar to previous months. The photos are provided in *Appendix 5.6*.
- 5.3.6 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 jagwalking grazing, fishing and landscape planting around the project site. The photos are provided in *Appendix 5.6*. 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.

Observations

- 5.3.7 Waterbird behaviour observed during ecological monitoring are listed below:
 - Flying
 - Foraging
 - Soraing
 - Resting

5.3.8 The anthropogenic activities observed during ecological monitoring are listed in **Table 5.7**.

Table 5.7 Observations during Ecological Monitoring in the Reporting Month

	Observations			
Location(s)	Project Related	Non-project Related		
T1 (PC1, PC2)	N/A	Human Activities such as Fishing and Grazing 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, Grazing, 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 Jaywalking, 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 5.8 and <u>Appendix 5.7</u>. The laboratory analysis results can be referred in <u>Appendix 5.8</u>.

Table 5.8 Summary Table of Water Quality Monitoring Results

	С	:1	IV	11	Action	Limit Level,
Parameter	Range	Average	Range	Average	Level, (µg/m3)	(µg/m3)
DO (mg/L)	5.5 – 8.6	7.2	4.6 – 8.6	6.9	≤ 7.8 mg/L	≤ 7.7 mg/L
Turbidity (NTU)	4.3 – 42.7	15.1	7.3 – 35.5	13.8	≥ 14.6 NTU or When M1 ≥ 120% of C1	≥ 15.6 NTU or When M1 ≥ 130% of C1
SS (mg/L)	2.7 – 42.9	13.6	5.8 – 43.8	16.2	≥ 18.8 mg/L or When M1 ≥ 120% of C1	≥ 19.5 mg/L or When M1 ≥ 130% of C1

5.4.2 Eighteen (18) limit level exceedances and one (1) action level exceedance were recorded in the reporting month. **Table 5.9** shown all exceedances recorded in the reporting month.

Table 5.9 Summary Table of Exceedance

Date	Action Le	on Level (AL) / Limit Level (LL) Exceedance		Construction Works at Outfall	
	DO	Turbidity	SS	(extracted from Site Diary of ER)	
4-Jan-23	-	LL	LL	-General site work -Erecting formwork to wall of outfall	
6-Jan-23	-	LL	AL	-General site work	
9-Jan-23	LL	-	LL	-Rebar fixing to wall -Making good of CJ of wall	
11-Jan-23	LL	LL	LL	Freeting formwork to well	
13-Jan-23	LL	LL	LL	-Erecting formwork to wall	
18-Jan-23	LL	-	LL	-Striking formwork to wall	
20-Jan-23	LL	-	LL	-Striking formwork to wall	
27-Jan-23	LL	-	LL	-General site work -Dismantling of working platform and falsework	
30-Jan-23	LL	-	-	-General site work -Erecting formwork to bend block of MS2000 and DI1400 pipe -Pouring concrete surround and bend block of DI1400 and MS2000 pipe	



- 5.4.3 According to the Project Layout, most of construction works under the Project are considered as land-based construction. There is only one construction works for Outfall conducted at the slope between the Project site and the Ng Tung River, which may contribute water quality pollution to the Ng Tung River. The Project Layout and the location of the constructing outfall is shown in **Figure 2.1**.
- 5.4.4 ET conducted a site investigation after recorded exceedances. Excepted construction of outfall, there was no construction work or exposed area under the Project identified between site boundary and Ng Tung River. The photo record of site boundary took after the exceedance was annexed in Appendix 5.10a.
- 5.4.5 Considered only construction works for Outfall may affect the water quality of Ng Tung River, so the investigation report should focus on on-site practice and implementation of mitigation measures for outfall work instead of the entire Project area.
- 5.4.6 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. The E&M works for the outfall were started in January 2023, and no excavation or sheet piling work should be conducted in January 2023. According to the ET's photo record, E&M works were observed at the outfall, and no heavy works, like excavation or sheet piling work, were observed during the reporting month. Also, all works conducted were within the area of outfall (land-based) and provided sufficient mitigation measures (concrete blocks and plastic barriers). The site diary provided by the ER was annexed in **Appendix 5.10b**, and the photo record taken by the ET for the outfall was annexed in **Appendix 5.10c**.
- 5.4.7 Considered only E&M works conducted in January 2023, and all works conducted were within the area of outfall with sufficient mitigation measures, so the exceedances recorded in the reporting month should be considered non-project related.

5.5 Waste Management

5.5.1 The quantities of waste for disposal in the Reporting Period are summarized in *Table 5.10* to 5.13 The Monthly Summary Waste Flow Table is shown in <u>Appendix 5.9</u>. Whenever possible, materials were reused on-site as far as practicable.

Table 5.10 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 '000m³)	0.000	0.000	0.000
Reused in this Contract (Inert) (in '000m³)	0.000	0.000	0.000
Reused in other Projects (Inert) (in '000m³)	0.000	0.000	0.000
Disposal as Public Fill (Inert) (in '000m³)	4.051	0.442	0.442
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 '000m³)	0.104	0.061	0.061

Table 5.11 Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract No. DC/2018/07

Waste Type	Quantity	Quantity	Annual Cumulative
	(Previous month)	(Reporting month)	Quantity (2023)
Hard Rock and Large Broken Concrete (Inert) (in '000m³)	0.000	0.000	0.000

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2023)
Reused in this Contract (Inert) (in '000m³)	0.000	0.000	0.000
Reused in other Projects (Inert) (in '000m³	0.000	0.000	0.000
Disposal as Public Fill (Inert) (in '000m³)	13.033	6.953	6.953
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 '000m³)	0.655	0.025	0.025

Table 5.12 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	0.130	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)	16.270	10.510	10.510

Table 5.13 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 '000m³)	0.000	0.000	0.000
Disposal as Public Fill (Inert) (in '000m³)	0.000	7.260	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)	1.300	0.000	0.000

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.

6.3 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 Eighteen (18) limit level exceedances and one (1) action level exceedance 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 3, 10(DE/2018/03 and DE/2018/04), 12(DC/2018/06 and DC/2018/07), 17 and 31 January 2023 and biweekly landscape inspection on 3 and 17 and 31 January 2023. IEC attended the joint site inspection on 31 January 2023.
- 7.1.2. No site inspection was conducted between 22 and 28 January 2023, since no construction work was conducted in this week due to Lunar New Year Holiday.
- 7.1.3. 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
20230103_1	3-Jan- 2023	The breaker tip should be wrapped properly with noise reduction material.	The breaker, which was improperly wrapped with noise reduction measure material, was removed.	Rectified on 12-Jan-23.
20230117_1	17-Jan- 2023	Soil was observed outside of site boundary. The Contractor was advised to clean up the soil after transporting works.	The soil at outside of site boundary near SDB was removed.	Rectified on 31-Jan-23.
20230131_1	31-Jan- 2023	The accumulated sand in / around the drip tray should be cleaned up at SD surrounding.	The accumulated sand in drip tray was removed.	Rectified on 9-Feb-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
-	-	-	-	-

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 <u>Appendix 8.1.</u>
- 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
January 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	Implement proper dust mitigation measures on
	Sewage, utility and pipe	dusty surface and stockpiles
	works	Implement proper measures to prevent excavated
	Backfilling	material, silt or debris being deposited or washed
	ABWF works	into existing drainage systems and waterbodies
	Construction of Outfall at Ng Tung River	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	 Construction of Pile Cap Plumbing, MVAC and Electrical Installation Penstock and Stoplog Installation SPR, MFA and AFA Installation EOT and Monorail Installation Bio-Gas Holding tank Installation Pipework Installation 	 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



Contract No.	Key Construction Works	Recommended Mitigation Measures
		ULSD as fuel for diesel-powered machinery.
DE/2018/04	 Improvement Works for Temporary Primary Sludge Thickener and its accessories E&M Installation 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 installation works at Portion B-2, Inert Works 	 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

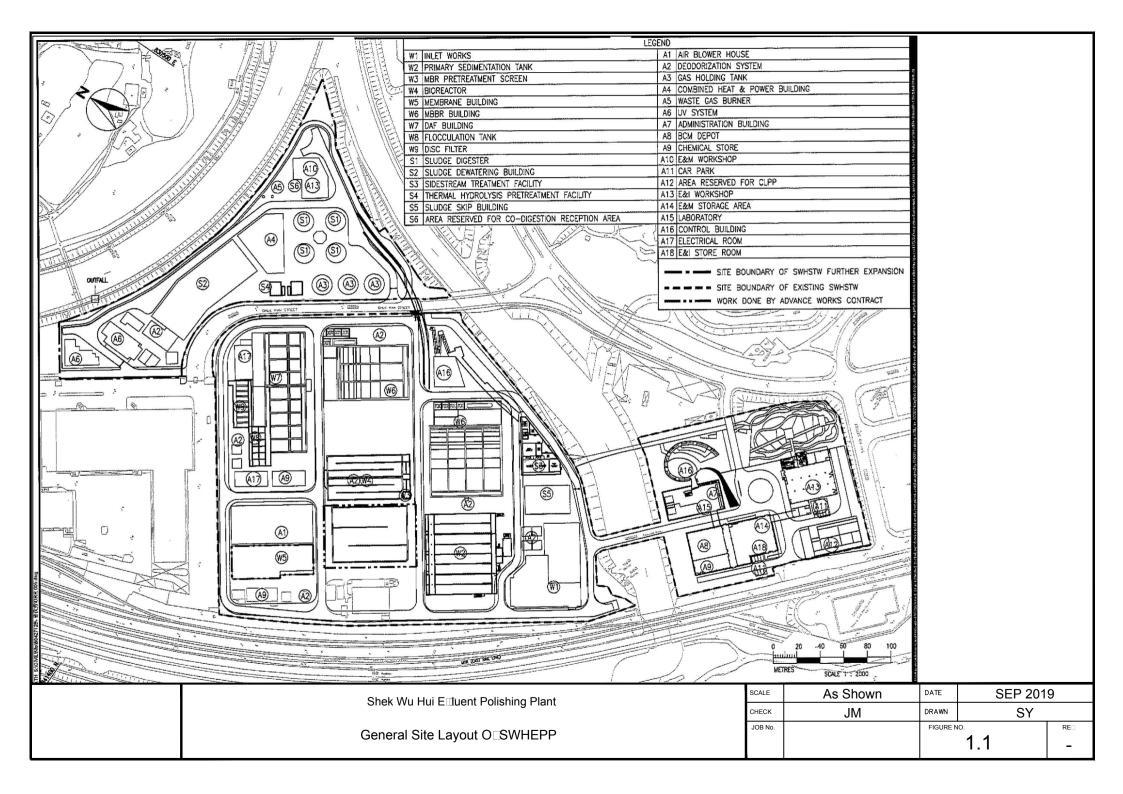
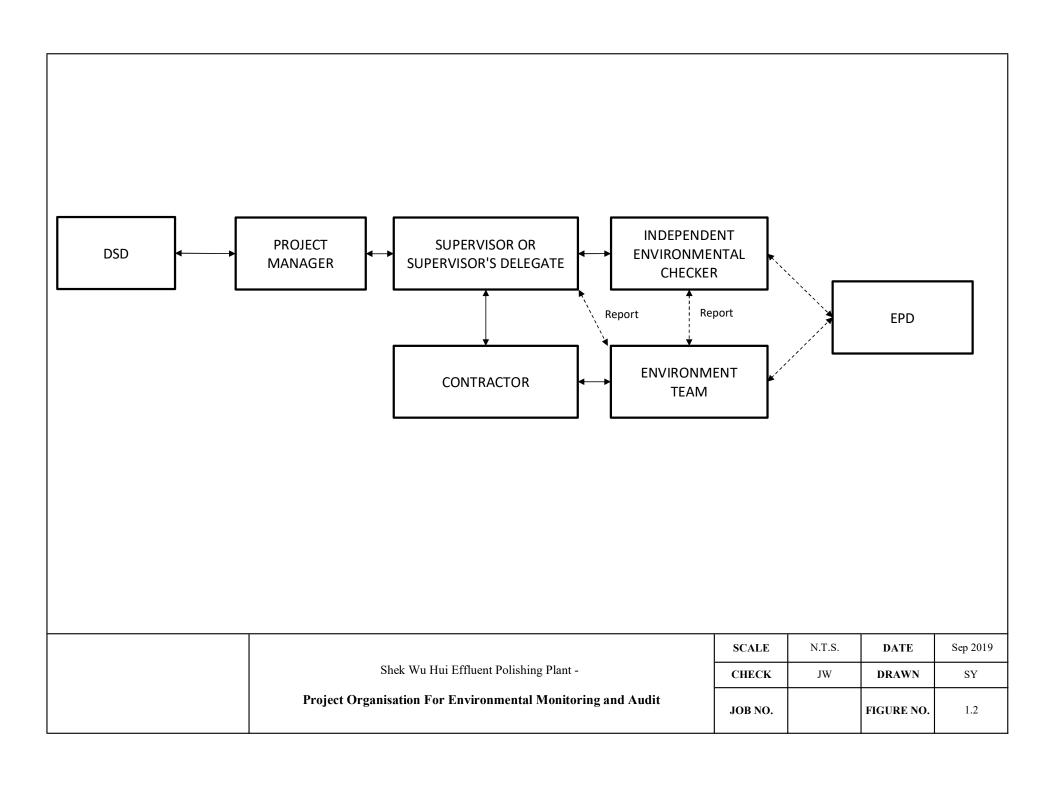
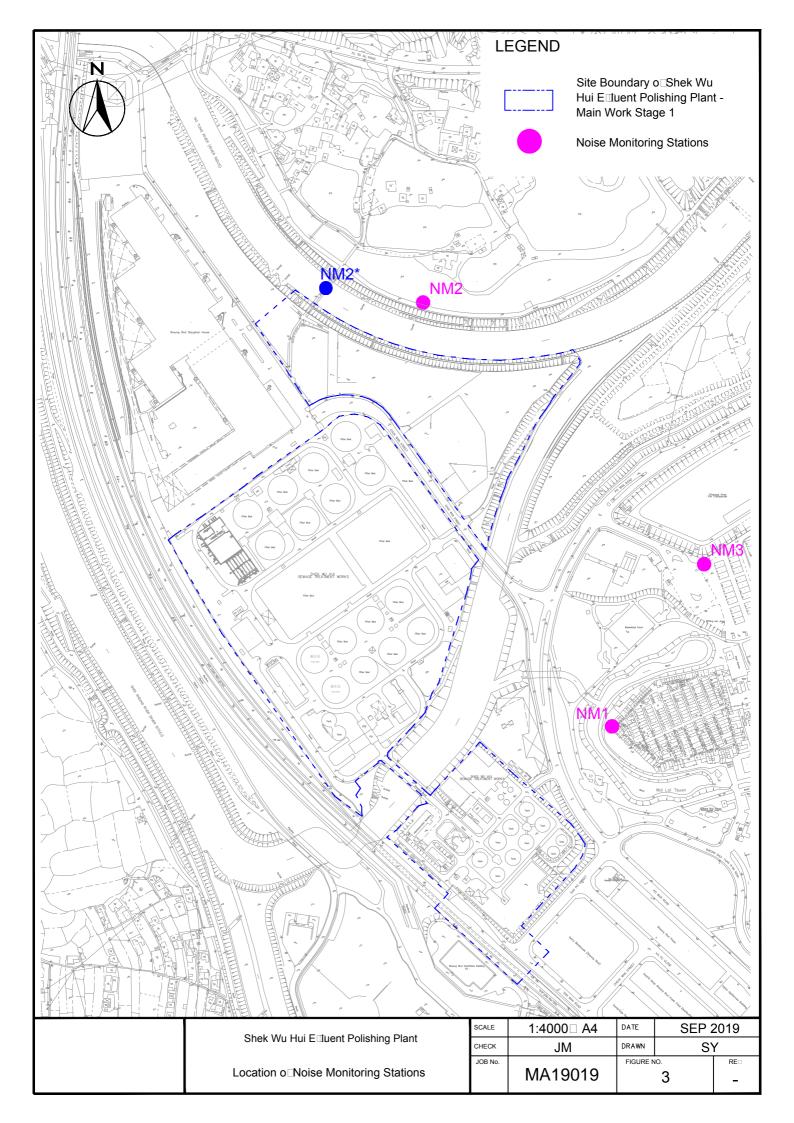


Figure 2.2

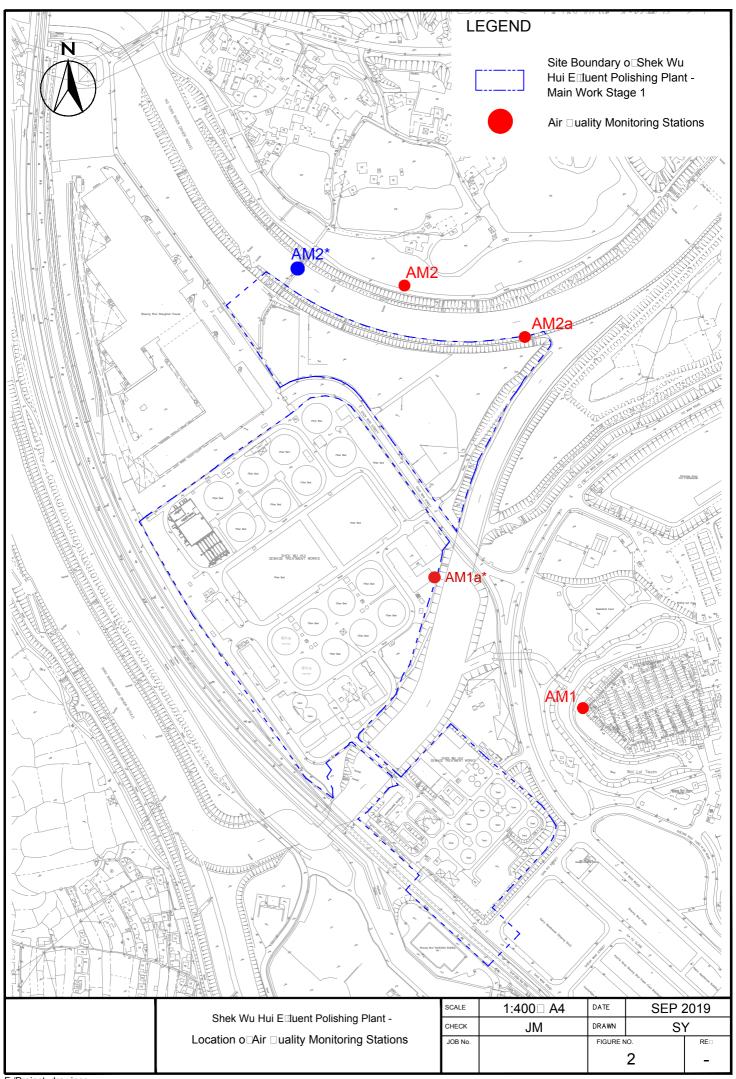
Project Organization Chart



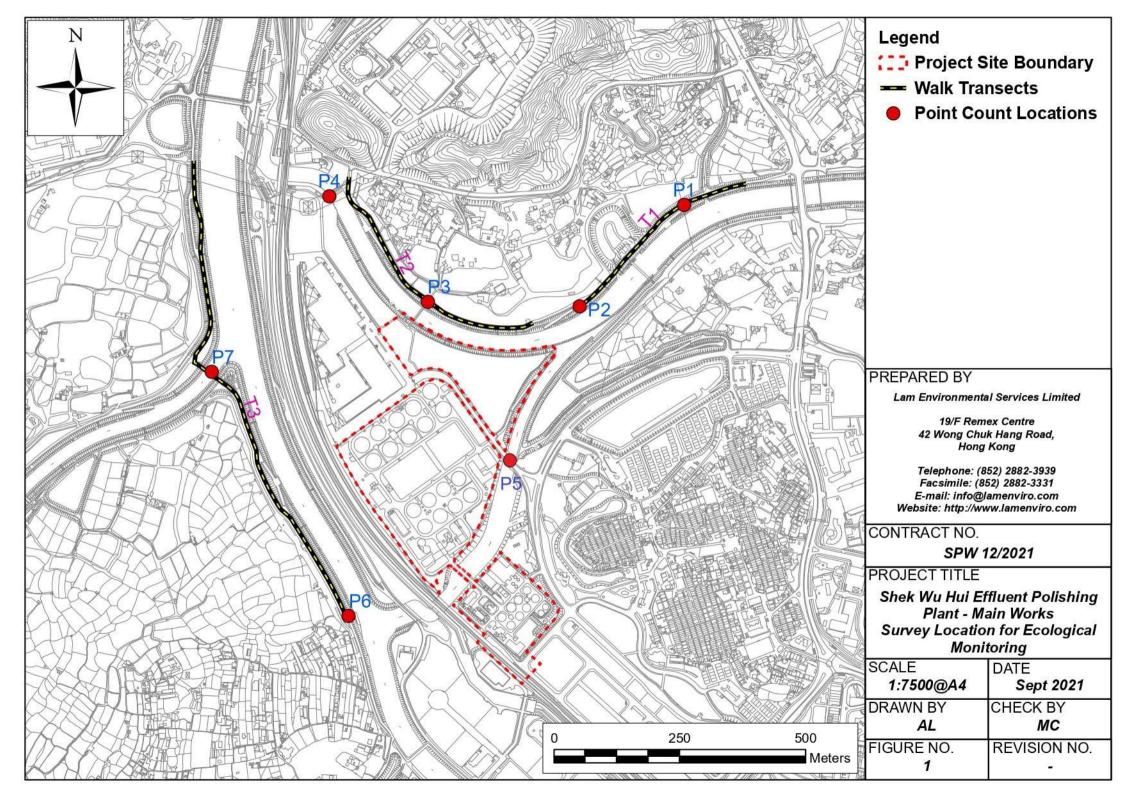
Locations of Noise Monitoring Stations



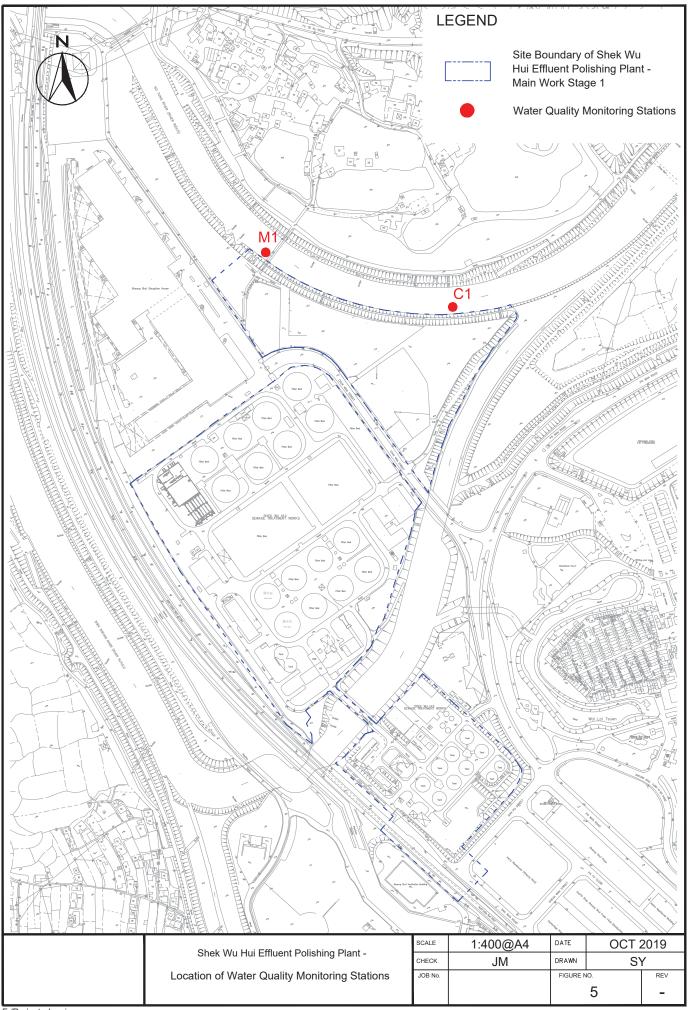
Locations of Air Quality Monitoring Stations



Locations of Ecological Monitoring Stations



Locations of Water Quality Monitoring Stations



Appendix 2.1

Layout Plan of Construction Activities and Site Record Photos



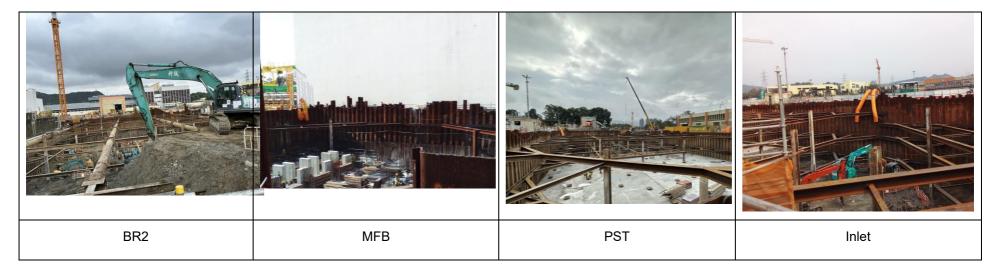
Site Record Photos



DC/2018/06



DC/2018/07

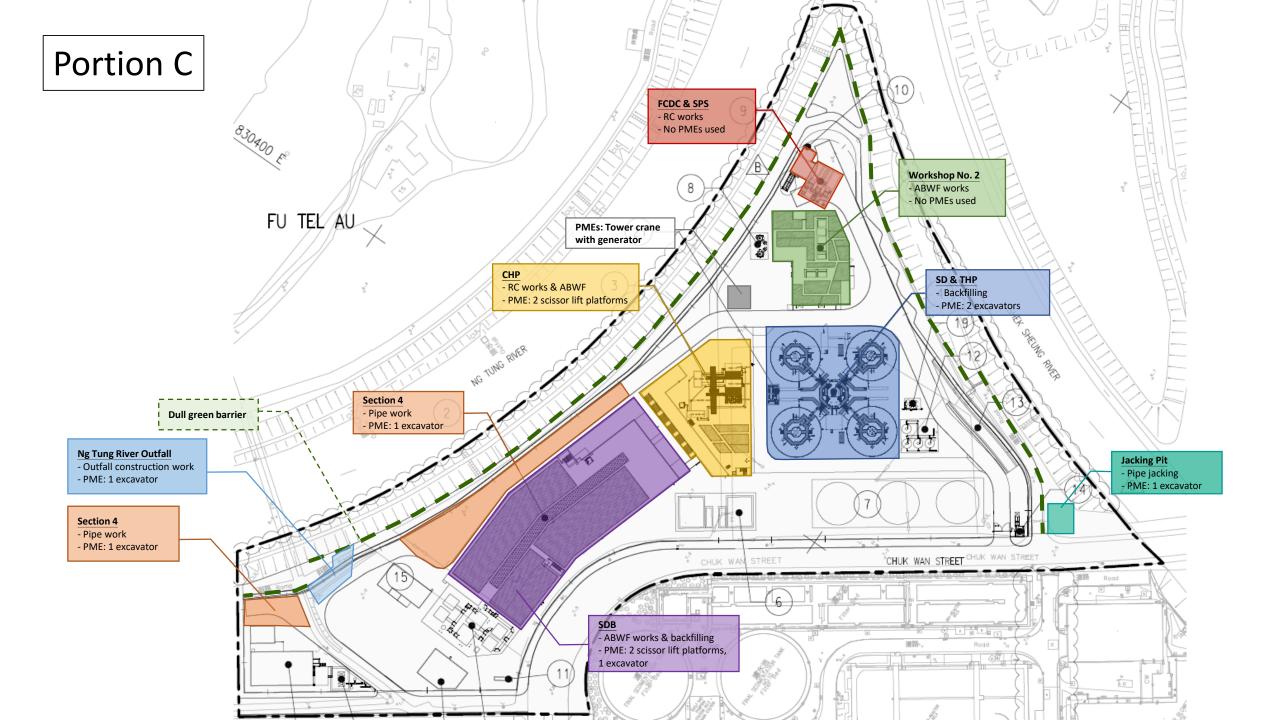




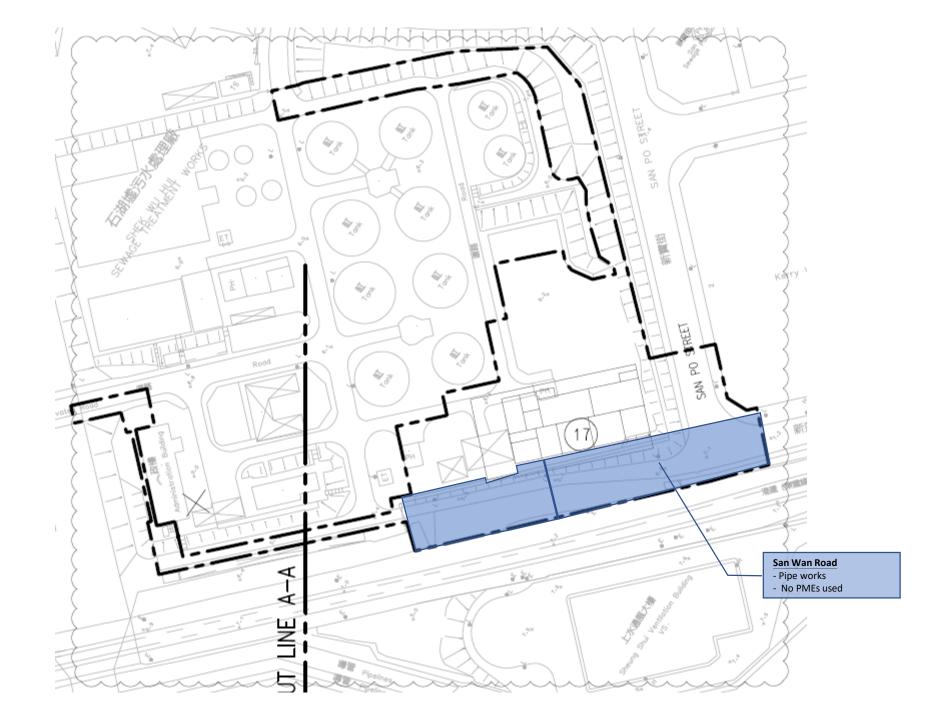
DE/2018/03



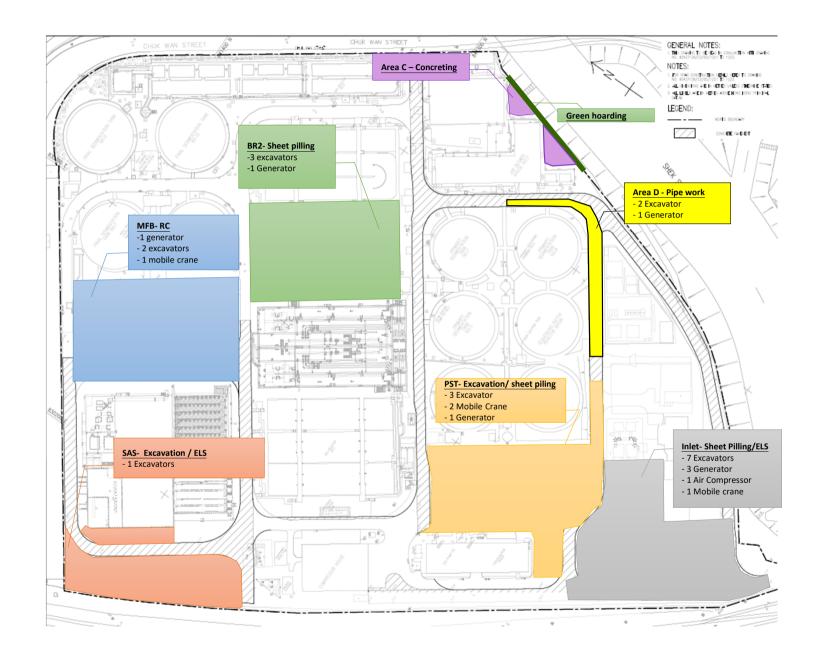
Sidestream

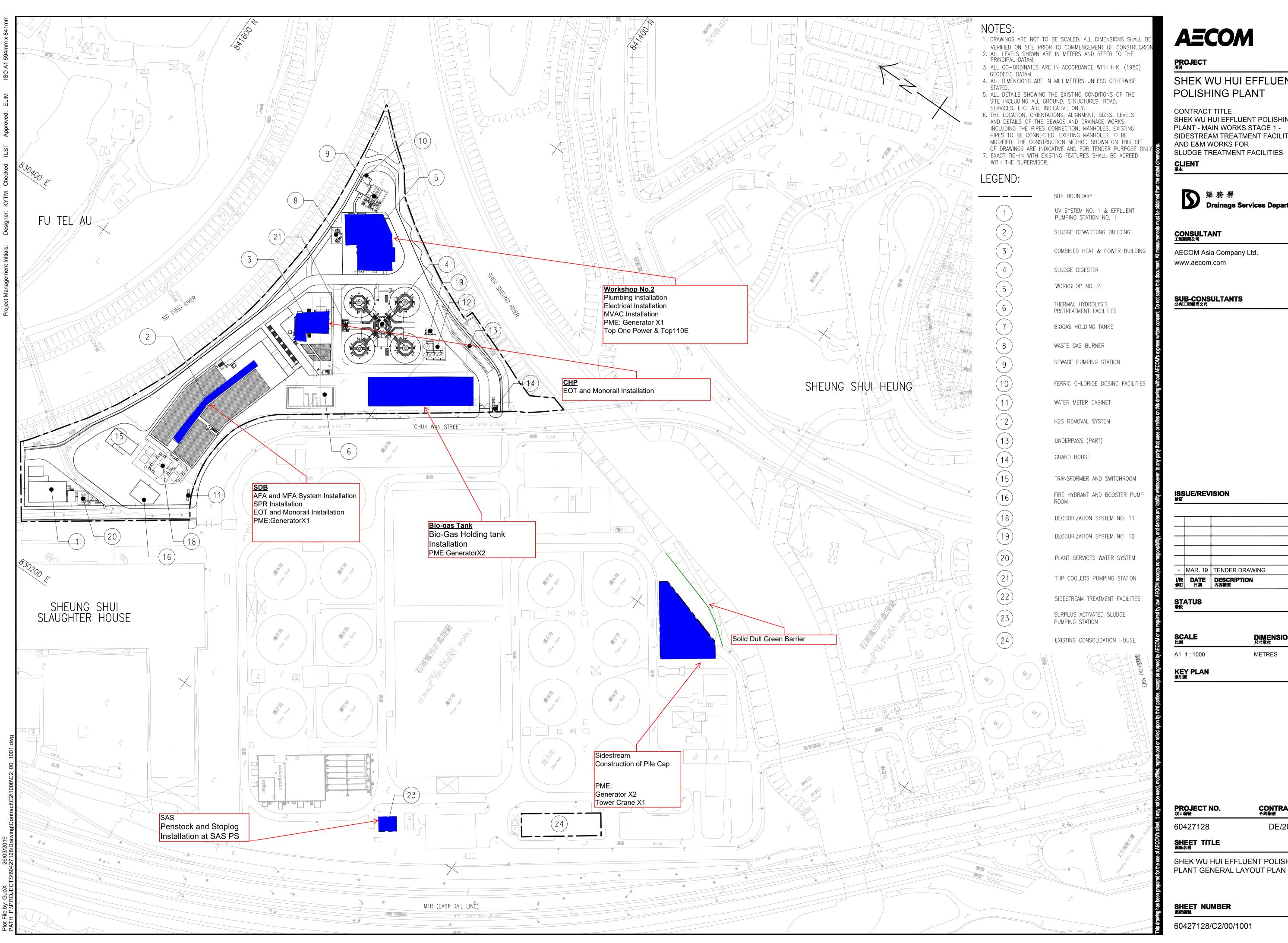


Portion A



Portion B





AECOM

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

Drainage Services Department

AECOM Asia Company Ltd.

SUB-CONSULTANTS 分判工程顧問公司

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

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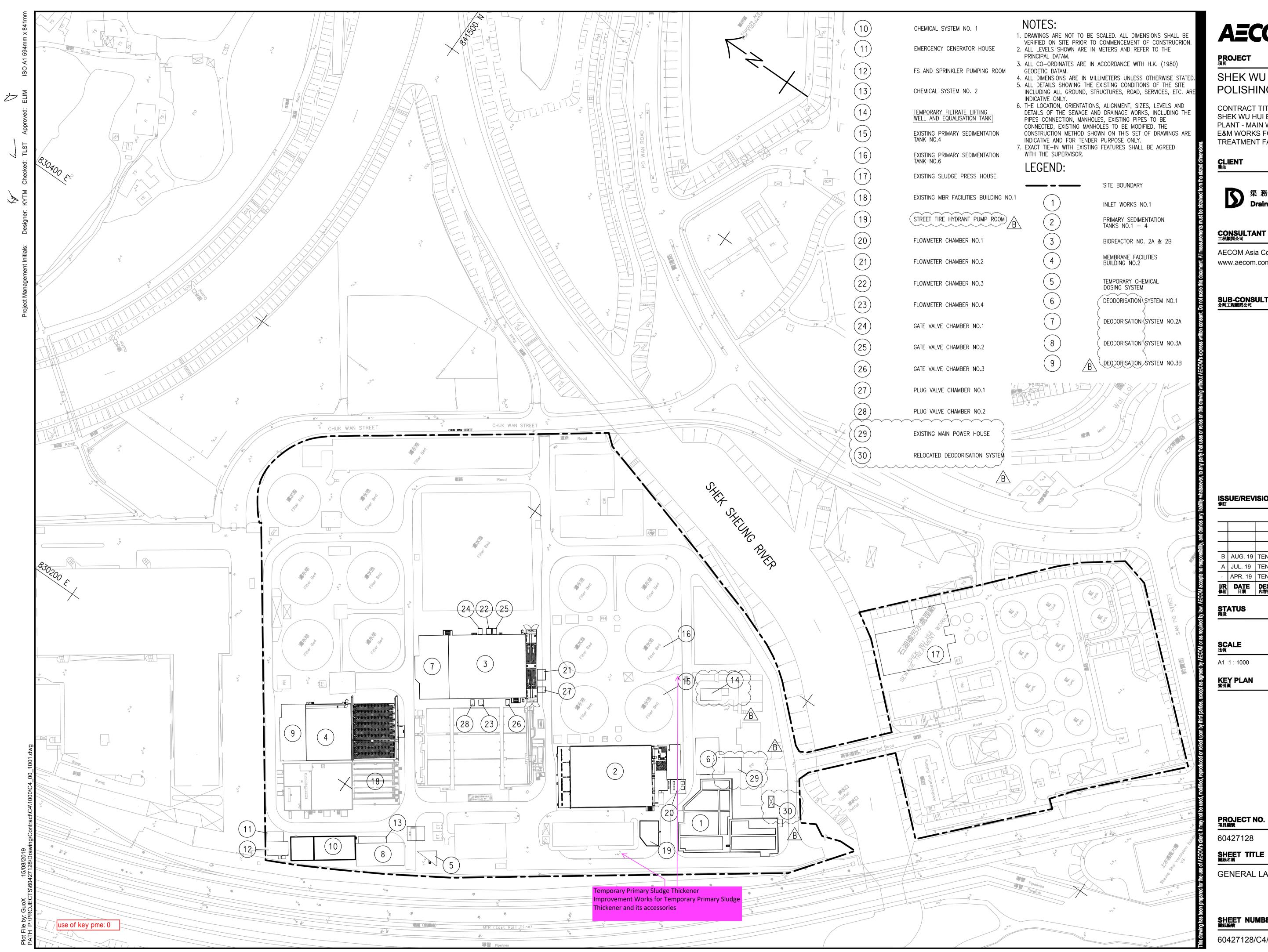
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CONTRACT NO.

DE/2018/03

SHEK WU HUI EFFLUENT POLISHING

60427128/C2/00/1001



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

算務署
Drainage Services Department

CONSULTANT 工程順間公司

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ISSUE/REVISION 修訂

DIMENSION UNIT 尺寸單位 **METRES**

CONTRACT NO. 合約線號

60427128

DE/2018/04

SHEET TITLE 岡紙名標

GENERAL LAYOUT PLAN

SHEET NUMBER **画纸编號**

60427128/C4/00/1001B

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	y Monitoring						
S2.4.1.3	Dust suppression measures stipulated in the Air Pollution Control (Con	struction Dust) Regulation	on and good site	e 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	۸
	Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;					(Construction Dust)	٨
	 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;						۸
	Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;						٨

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.						۸
	The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;						۸
	 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; 						٨
	 Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; 						۸
	Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;						۸
	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; 						٨
	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;						٨

Contract No. SPW 12/2021 Environmental Team (2021 – 2024) for Shek Wu Hui Effluent Polishing Plant – Main Work

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	

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 Imp	act									
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)	۸			
S3.4.1.2	Good Site Practice:									
S3.4.1.2	 Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. 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 	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, NCC	^			
	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. Motorial stockwiles and other attructures should be effectively.									^
	 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	
Ecologica								
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	٨	
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	۸	
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	٨	
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	٨	
	 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; 						۸	
	To prevent muddy water entering nearby water bodies, work sites close to nearby water bodies should be isolated, using such items as sandbags or silt curtains with lead edge at bottom and properly supported props. Other protective measures should also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the work sites;						٨	

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 						٨
	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; 						٨
	 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; 						٨
	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						٨
	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. 						٨

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; 						۸
	Speed control for the trucks carrying contaminated materials should be enforced;						٨
	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 Qua	ality 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	Sewage from Workforce						
S5.2.2.3	Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed Contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance;	Handling of site sewage	Contractors	tractors Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	۸
	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause water quality impact after undertaking all required measures						٨

EM&A Ref.	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
	anagement						
S6.2.2.1	Good Site Practices and Waste Reduction Measures		T -	T	T -	T	1
	 Nomination of an approved person, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; 	Minimize waste generation during construction	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal Ordinance (WDO)	٨
	 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; 						۸
	 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; 						۸
	An Environmental Management Plan (EMP) should be prepared by the contractor and submitted to the Supervisor for approval.						۸
S6.2.3.1	Waste Reduction Measures				<u> </u>	1	
	Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Reduce waste generation	Contractors	Work Sites	Prior to the commencement of construction	WDO	٨
	 Proper storage and site practices to minimize the potential for damage and contamination of construction materials; 				of Main Works Stage 1, Stage 2		۸
	 Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste; 				and Stage 3		^
	Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); and						٨
	 Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling. 						٨

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: • 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.	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	^ ^
S6.2.4.2	Storage, Collection and Transportation of Waste (con't) Remove waste in timely manner; 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	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	^ ^ ^ ^
S6.2.5.2	C&D Materials from Site Formation Maintain temporary stockpiles and reuse excavated fill material for backfilling; 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.	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	^ ^
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	٨					
	The use of wooden hoardings shall not be allowed. An alternative material, such as metal, aluminium or alloy etc, could be used.						۸					
	Government has developed a charging policy for the disposal of waste to landfill at present. It will provide additional incentive to reduce the volume of generated waste and ensure proper segregation to allow reuse of the inert material on site when implemented.											۸
	In order to minimize the impacts of the demolition works, the generated wastes must be cleared as quickly as possible after demolition. Therefore, the demolition and clearance works should be undertaken simultaneously. To facilitate proper segregation of inert and non-inert C&D material arising from demolition works, selective demolition method should be adopted.						۸					
S6.2.5.4	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	ntractor Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General)	۸					
	Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.					Regulation, Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	*					
S6.2.5.5	General Refuse	l	1	_ I	I	I	ı					

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. 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. 	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	^ ^

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
Landscap	e and Visual						
S7.3.1.1	For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to.	Minimize the impact to the landscape and visual	Contractor	Work Sites	Prior to construction and construction		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.				phase		N/A
\$7.3.2.1	 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	٨

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
\$7.3.2.1	MM6 - Slope Landscaping Site formation should be reduced as far as possible. Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape recourses and charter. Woodland tree seedings and/or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping MM7 - Compensatory Planting	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

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	Prior to construction, construction phase and operation	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. 			offsite locations	phase		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
\$7.3.2.1	 MM10 - Green Roof Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable. 	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to visually sensitive receivers (VSRs) at high levels. Provide greening	Designer / Contractor	On appropriate buildings	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
\$7.3.2.1	 MM16 - Screen Hoarding Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. 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
\$7.3.2.1	 MM17 - Light Control Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase. 	To minimize glare impact to adjacent VSRs.	Designer / Contractor	Work Sites and/or the Plant	Construction phase and operation phase		N/A

Remarks:

Implemented
To be followed-up by Contractor
Not Implemented
Not Applicable N/A

Appendix 4.1

Action and Limit Level

Lam Environmental Services Limited

Action and Limit Levels

Air Quality Monitoring

Monitoring	1-hour TSP Level in µg/m³		24-hour TSP Level in μg/m³		
Station	Action Level	Limit Level	Action Level	Limit Level	
AM1	320	500	189	260	
AM2	322	500	187	260	

Noise Monitoring

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

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

^{*}Note: Whether numbers are significant depend on species and season after collection and evaluation of baseline data.

⁽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.



Lam Environmental Services Limited

Water Quality Monitoring

Parameter			
(Unit)	Depth	Action Level	Limit Level
DO	N 4: -1 -11 -	< 7.0 mm/l	4.7.7 mm/l
(mg/L)	Middle	≤ 7.8 mg/L	≤ 7.7 mg/L
		≥ 14.6 NTU	≥ 15.6 NTU
Turbidity	Depth-	or 120% of upstream control	or 130% of upstream control
(NTU)	average	station's Turbidity at the same	station's Turbidity at the same tide
		tide of the same day	of the same day
		≥ 18.8 mg/L	≥ 19.5 mg/L
SS	Depth-	or 120% of upstream control	or 130% of upstream control
(mg/L)	average	station's SS at the same tide of	station's SS at the same tide of the
		the same day	same day

Appendix 4.2

Copies of Calibration Certificates





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	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)			
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(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			
	m=	2.07013		m=	1.29628			
QSTD[b=	-0.00727	QA	b=	-0.00455			
	r=	0.99999	,	r=	0.99999			

	Calculatio	ns	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/∆Time	Qa=	Va/ΔTime
	For subsequent flow ra	te calculatio	ns:
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	П					
Pstd:	760 mm Hg						
	Key						
ΔH: calibrate	r manometer reading (in H2O)	_					
ΔP: rootsmet	ter manometer reading (mm Hg)	Π					
	solute temperature (°K)						
Pa: actual ba	Pa: actual barometric pressure (mm Hg)						
b: intercept							
m: slope	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

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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	:	4-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 Tr	ransfer Sta	ndard Information		
Equipment No.	3880	Slope, m _c	2.07013	Intercept, bc	-0.00727
Last Calibration Date	28-Jun-22		(HxP _a /1	1013.3 x 298 / T _a	a) ^{1/2}
Next Calibration Date	28-Jun-23		= <i>m_c</i>	$x Q_{std} + b_c$	

				Calibration of TSP		
Calibration	Mar	nometer R	eading	Q _{std}	Continuous Flow	IC
Point	Н (inches of v	water)	(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	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 Linea	r Regression of	Υ	on X	
----------	-----------------	---	------	--

Slope, m = 48.9134 Intercept, b = -17.5531

Calibration Accepted = 0.9998

Yes/Ne**

Remarks: Serial No.:0401-1105

 Calibrated by
 :
 Alan Ng
 Checked by
 :
 Alex Chan

 Date
 :
 4-Jan-23

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

^{**} Delete as appropriate.



Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	: _	AM2a	Calbration Date	:	4-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 Tr	ransfer Sta	ndard Information		
Equipment No.	3880	Slope, m _c	2.07013	Intercept, bc	-0.00727
Last Calibration Date	28-Jun-22		(HxP _a /1	1013.3 x 298 / T _a	a) ^{1/2}
Next Calibration Date	28-Jun-23		= <i>m_c</i>	$x Q_{std} + b_c$	

				Calibration of TSP		
Calibration	Mar	nometer R	eading	Q _{std}	Continuous Flow	IC
Point	Н (inches of v	water)	(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	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 F	Regression	of	Υ	on	Χ
-------------	------------	----	---	----	---

Slope, m = 47.3405 Intercept, b = -26.2467

Calibration Accepted = 0.9980

Yes/Ne**

Remarks: Serial No.: 1096-2305

 Calibrated by
 :
 Alan Ng
 Checked by
 :
 Alex Chan

 Date
 :
 4-Jan-23

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

^{**} Delete as appropriate.



Calibration Certificate

The calibration results on this report certify that this instrument complies with the product specifications at the time of calibration. Calibration was performed according to accepted industry methods using equipment, procedures, and standards that are traceable to NIST and ISO.

Recommended calibration interval is 12 months from the first day of use.

Instrument Model#

Aerocet 831

Instrument Serial# R14332

Sensor # 12228

Date of Calibration

4/29/2022

JGoddard A

Calibration Technician

Temperature

O_C 22

Quality Check

Relative Humidity 32

%

Test Procedure:

Aerocet 831-6100

PSL Size (µm)	Test Results	Test Spec.	Lot# NIST	Expiration
0.3	Pass	± 10%	240943	05/31/2024
0.5	Pass	± 10%	219480	11/30/2022
1.0	Pass	± 10%	229294	8/31/2023
2.5	Pass	± 10%	REF	NA
4.0	Pass	± 10%	REF	NA
7.0	Pass	± 10%	REF	NA
10.0	Pass	± 10%	REF	NA

		, \$ -3 & F	
Standards	Model	SN	Cal Due
FLOW	SWIFT 6.0	B20457	11/24/2022
DMM	289	27720071	8/24/2022
RH/TEMP SENSOR	083E-1-6	R20313	9/13/2022
Particle Counter	GT-526S	X17421	5/29/2022

This calibration certificate shall not be reproduced except in full, without the written approval of Met One Instruments Inc.



Calibration Certificate

The calibration results on this report certify that this instrument complies with the product specifications at the time of calibration. Calibration was performed according to accepted industry methods using equipment, procedures, and standards that are traceable to NIST and ISO.

Recommended calibration interval is 12 months from the first day of use.

Instrument Model#	Aerocet 831		Instrument Serial#	W15448
Date of Calibration	4/28/2022		200	Sensor # 16438
JGoddard A 8			A 5	
Calibration Technicia	ın	1134	Quality Check	
Temper	ature 22	°c	Relative Humidity 3	2 %

Test Procedure: Aerocet 831-6100

0.3 Pass ± 10% 240943 0.5 Pass ± 10% 219480 1.0 Pass ± 10% 229294 2.5 Pass ± 10% REF 4.0 Pass ± 10% REF 7.0 Pass ± 10% REF	Γ Expiration	Lot# NIST	Test Spec.	Test Results	PSL Size (µm)
1.0 Pass ± 10% 229294 2.5 Pass ± 10% REF 4.0 Pass ± 10% REF	05/31/2024	240943	± 10%	Pass	0.3
2.5	11/30/2022	219480	± 10%	Pass	0.5
4.0 Pass ± 10% REF	8/31/2023	229294	± 10%	Pass	1.0
	NA	REF	± 10%	Pass	2.5
7.0 Pass + 10% RFF	NA	REF	± 10%	Pass	4.0
7.0 7.03	NA	REF	± 10%	Pass	7.0
10.0 Pass ± 10% REF	NA	REF	± 10%	Pass	10.0

Ctomolovelo	Model	SN	Cal Due
Standards	Wodel	3/4	Car Due
Particle Counter	GT-526S	X17421	5/29/2022
FLOW	SWIFT 6.0	B20457	11/24/2022
RH/TEMP SENSOR	083E-1-6	R20313	9/13/2022
DMM	289	27720071	8/24/2022

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Calibration Data for High Volume Sampler (TSP Sampler)

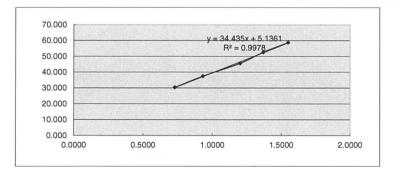
Ambient Condition					
G/FL;No.20,Pak Kung Street,Hung Hom ,Kowloon.					
3/4/2023					
3/2/2023					
2493					
	3/2/2023 3/4/2023 G/FL;No.20,Pak Kung Street,Hung Hom ,Kowloon.				

Ambient Condition						
Temperature, T _a	292	Kelvin Pressure, Pa	1018	mmHg		

Orifice Transfer Standard Information							
Equipment No.	3880	Slope, m _c	2.07013	Intercept, bc	-0.00727		
Last Calibration Date	28/6/2022		(HxP_a)	1013.3 x 298 / T _a) 1/2		
Next Calibration Date	28/6/2023		= m	$a_c \times Q_{std} + b_c$			

Calibration of TSP							
Calibration Point		nometer R		Q _{std} (m ³ / min.)	Continuous Flow Recorder, W	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.3	
	(up)	(down)	(difference)	X-axis	(CFM)	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



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

Remarks :					
Calibrated by	· — l	Poon Wai Hung	Checked by	:1	b Vernehuen
Date	;	3/4/2023	Date	: -	3/4/2023

^{**} Delete as appropriate.

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



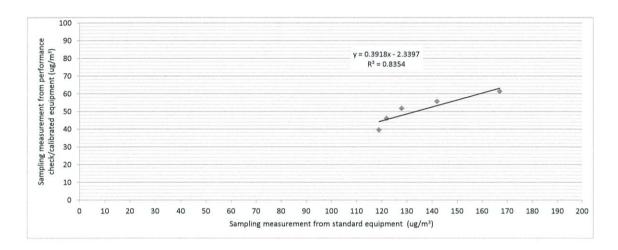
Equipment Portable Dust Meter		Standard Equipment (High Volume Sampler)		
Manufacturer MET ONE INSTRUMENTS		TISCH		
Model Number	AEROCET831	TE-5170		
Serial Number Y23153		2493		
Date	3/2/2023	3/2/2023		
Location	GCE laboratory-G/FL;No.20 Pak Kung Street., Hung Hom, Kowloon			

Portable Dust Meter Performance Check Results

Check Point	Date & Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m³ (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) Correlation Coefficient Validity of Performance Check / Calibration Record

2.2000 0.9140 3/2/2024



Date: 9/2/2023 Operator: Poon Wai Hung Checked by: o Kam Chuen Date: 9/2/2023 GEOTECHNICS & CONCRETE ENGINEERING (H.K.) LTD. 6 KO SHAN RD., GROUND FL., HUNG HOM, KOWLOON, HONG KONG. FAX NO.: 852-2765 8034 TEL.: 852-2365 9123



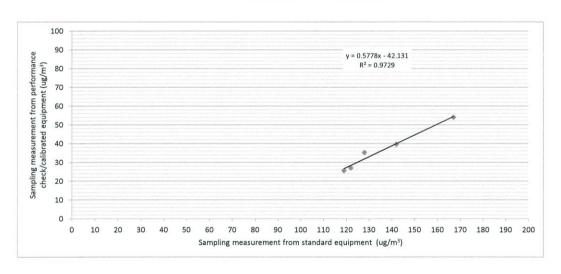
Equipment	Portable Dust Meter	Standard Equipment (High Volume Sampler)		
Manufacturer	MET ONE INSTRUMENTS	TISCH		
Model Number	BT-645	TE-5170		
Serial Number C15622		2493		
Date	te 3/2/2023			
Location	GCE laboratory - G/FL; No.20, Pak Kung Street, Hung Hom, Kowloon.			

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) Correlation Coefficient Validity of Performance Check / Calibration Record

1.7000 0.9863 3/2/2024



Operator:	Poon Wai Hung	Date:	9/2/2023
Checked by:	Va Vala Kan (chapen	Date:	9/2/2023



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CERTIFICATE OF CALIBRATION

Certificate No.:

22CA0224 04-02

Page

of

2

Item tested

Description:

Sound Level Meter (Type 1) Nti

Microphone Nti Andio

Preamp Nti Andio

Manufacturer: Type/Model No.:

XL2

MC230A A16673

MA220

Serial/Equipment No.: Adaptors used:

A2A-15269-EO

8034

Item submitted by

Customer Name:

Lam Environmental Services Limited.

Address of Customer:

Request No .:

Date of receipt:

24-Feb-2022

Date of test:

01-Mar-2022

Reference equipment used in the calibration

Description:

Serial No. Model:

Expiry Date: 23-Aug-2022

Traceable to:

Multi function sound calibrator Signal generator

B&K 4226 DS 360

2288444 33873

27-May-2022

CIGISMEC **CEPREI**

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

55 ± 10 %

Air pressure:

1010 ± 5 hPa

Test specifications

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

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

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, 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.

Feng Junqi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

02-Mar-2022

Company Chop:

FNGIN

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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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

22CA0224 04-02

Page

)

2

1, Electrical Tests

The electrical tests were performed 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.

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
		3.45	2.52	
Self-generated noise	Α	Pass	0.3	
	С	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
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	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
5 5	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 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 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.

Calibrated by:

 $\Delta \Delta$

calibrated on a schedule to maintain the required accuracy level.

End

Checked by:

Date:

Chan Yuk Yiu 02-Mar-2022

Date:

01-Mar-2022\

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



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Test Data for Sound Level Meter

Page 1 of 6

Sound level meter type:

XL2

Serial No.

A2A-15269-EO Date

01-Mar-2022

Microphone

type:

MC230A

Serial No.

A16673

Report: 22CA0224 04-02

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

11.0

dB

Noise level in C weighting

dB dB

14.5

20.9

dB

LINEARITY TEST

Noise level in Lin

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	Actua	al level	Tolerance	Devia	ation
Neierence/Expected level	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
115.0	115.0	115.0	0.7	0.0	0.0
116.0	116.0	116.0	0.7	0.0	0.0
117.0	117.0	117.0	0.7	0.0	0.0
118.0	118.0	118.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
120.0	120.0	120.0	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	49.1	49.1	0.7	0.1	0.1
44.0	44.0	44.0	0.7	0.0	0.0
39.0	39.0	39.0	0.7	0.0	0.0
34.0	34.1	34.1	0.7	0.1	0.1
33.0	33.1	33.1	0.7	0.1	0.1



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Test Data for Sound Level Meter

Page 2 of 6

Sound level met Microphone	ter type: type:	XL2 MC230A		Serial No. Serial No.	A2A-15269-EO A16673		01-Mar-2022
200						Report:	22CA0224 04-02
32.0		32.2	32.2	0.7	0.2		0.2
31.0		31.2	31.2	0.7	0.2		0.2
30.0		30.3	30.3	0.7	0.3		0.3

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
40-140	94.0	94.0	0.7	0.0
20-120	94.0	94.0	0.7	0.0
0-100	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
40 140	51.0	51.7	0.7	0.7
40-140	138.0	138.0	0.7	0.0
20.120	30.0	30.3	0.7	0.3
20-120	118.0	118.0	0.7	0.0
0.100	30.0	30.0	0.7	0.0
0-100	98.0	98.0	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	Actual level	Tolerar	rce(dB)	Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	54.4	1.5	1.5	-0.2
63.1	94.0	67.8	67.7	1.5	1.5	-0.1
125.9	94.0	77.9	77.8	1.0	1.0	-0.1
251.2	94.0	85.4	85.3	1.0	1.0	-0.1
501.2	94.0	90.8	90.7	1.0	1.0	-0.1
1995.0	94.0	95.2	95.1	1.0	1.0	-0.1
3981.0	94.0	95.0	94.9	1.0	1.0	-0.1
7943.0	94.0	92.9	92.9	1.5	3.0	0.0
12590.0	94.0	89.7	89.5	3.0	6.0	-0.2

Frequency weighting C:

Frequency	Ref. level	Expected level	Actual level	Tolera	nce(dB)	Deviation
Hz	dB	dB	dB	+	-	dB



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Test Data for Sound Level Meter

Page 3 of 6

Sound level meter	er type:	XL2	Serial No.	A2A	∖-15269-EO	Date 01	-Mar-2022
Microphone	type:	MC230A	Serial No.	A16	673		
	10 80					Report: 220	CA0224 04-02
1000.0	94.0	94.0	94.0	0.0	0.0	0.0	
31.6	94.0	91.0	90.8	1.5	1.5	-0.2	
63.1	94.0	93.2	93.1	1.5	1.5	-0.1	
125.9	94.0	93.8	93.8	1.0	1.0	0.0	
251.2	94.0	94.0	93.9	1.0	1.0	-0.1	
501.2	94.0	94.0	94.0	1.0	1.0	0.0	
1995.0	94.0	93.8	93.8	1.0	1.0	0.0	
3981.0	94.0	93.2	93.1	1.0	1.0	-0.1	
7943.0	94.0	91.0	91.0	1.5	3.0	0.0	
12590.0	94.0	87.8	87.6	3.0	6.0	-0.2	

Frequency weighting Lin:

Frequency	Ref. level	Expected level	Actual level	Tolerar	nce(dB)	Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	93.8	1.5	1.5	-0.2
63.1	94.0	94.0	93.9	1.5	1.5	-0.1
125.9	94.0	94.0	93.9	1.0	1.0	-0.1
251.2	94.0	94.0	93.9	1.0	1.0	-0.1
501.2	94.0	94.0	93.9	1.0	1.0	-0.1
1995.0	94.0	94.0	93.9	1.0	1.0	-0.1
3981.0	94.0	94.0	93.9	1.0	1.0	-0.1
7943.0	94.0	94.0	94.0	1.5	3.0	0.0
12590.0	94.0	94.0	93.9	3.0	6.0	-0.1

Note: No corrections for the frequency response of the microphone, instrument case and windshield are made to the sound level meter.

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
116.0	115.0	114.9	1.0	1.0	-0.1

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)

miles and and an arrangement and arrangement and arrangement and arrangement a	(Declaration of the second		
Ref. level	Expected level	Actual level	Tolera	nce(dB)	Deviation
dB	dB	dB	+	-	dB
116.0	111.9	111.9	1.0	1.0	0.0



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Test Data for Sound Level Meter

Page 4 of 6

Sound level meter type:

XL2

Serial No.

A2A-15269-EO Date

01-Mar-2022

Microphone

type:

MC230A

Serial No.

A16673

Report: 22CA0224 04-02

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 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 Z, set the generator signal to single, Lzpeak)

Collino polaritados (170.g. m. g. g. m. g.						
Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation		
dB	dB	dB	+/- dB	dB		
119.0	119.0	119.3	2.0	0.3		

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	119.3	2.0	0.3

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
120.0	111.2	111.1	2.0	-0.1

Repeated at 100 Hz

1,101	catca at 100 Hz				
	Ref. Level	Repeated bu	ırst indication	Tolerance	Deviation
	dB	Expected (dB)	Actual (dB)	+/- dB	dB
	120.0	117.3	117.1	1.0	-0.2

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	Expected	Actual	Tolerance	Deviation	Remarks
	tone burst	Leq	Leq			

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Test Data for Sound Level Meter

Page 5 of 6

Sound level meter type:

XL2

Serial No.

A2A-15269-EO Date

01-Mar-2022

Microphone

type:

MC230A

Serial No.

A16673

Report: 22CA0224 04-02

msec	dB	dB	dB	+/- dB	dB	
1000	90.0	90.0	90.0	1.0	0.0	60s integ.
10000	80.0	80.0	80.0	1.0	0.0	6min. integ.

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	88.0	58.0	58.0	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	88.0	68.0	68.0	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
121.6	120.6	117.6	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
127.7	126.7	86.7	86.7	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



SMECLab

综合試驗有限公司 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

Test Data for Sound Level Meter

Page 6 of 6

Sound level me Microphone	eter type: type:	XL2 MC230A	Serial Serial	500000000 140000	A2A A16	-15269-EO 673		01-Mar-2022 22CA0224 04-02
1000	94.0		94.0		0.0	0.0	0.0	
125 8000	77.9 92.9		77.9 93.3		1.0 1.5	1.0 3.0	0.0 0.4	

----END-----



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2

to:



CERTIFICATE OF CALIBRATION

Certificate No.:

22CA1101 02-02

Page:

0

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

Larson Davis CAL200

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

Ambient conditions

Temperature:

22 ± 1 °C 55 ± 10 %

Relative humidity: Air pressure:

1005 ± 5 hPa

Test specifications

- 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.

Feng Junqi

Approved Signatory:

Date:

05-Nov-2022

Company Chop:

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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Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



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2

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

22CA1101 02-02

Page:

of

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.

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	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.

Calibrated by:

- End

Checked by:

- Line

Date:

fung Chi Yip 04-Nov-2022

Dates

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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Form No.CARP156-2/Issue 1/Rev.C/01/05/2005



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 (°)	Reading Value (W1, °)	Compass Value (W2, °)	Difference (W1 - W2, °)
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:	Ravmond Dai
conducted by.	rrimani Oneang	Checked by.	i tayiii oila bai



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 F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

ELLEN YU

CLIENT:

LAM GEOTECHNICS LIMITED

ADDRESS:

19/F, REMEX CENTRE,

42 WONG CHUK HANG ROAD,

HONG KONG

WORK ORDER:

HK2247977

SUB-BATCH:

0

LABORATORY:

HONG KONG

DATE RECEIVED:

02-Dec-2022

DATE OF ISSUE:

09-Dec-2022

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]/ [Pro Quatro]

Serial No./ Equipment No.:

[20M100002/20M101455]/[N/A]

Date of Calibration:

09-December-2022

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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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



HK2247977

ALS

SUB-BATCH:

0

DATE OF ISSUE:

09-Dec-2022

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/ [Pro Quatro]

Serial No./

[20M100002/20M101455]/[N/A]

Equipment No.: Date of Calibration:

09-December-2022

Date of Next Calibration:

09-March-2023

PARAMETERS:

Dissolved Oxygen

Method Ref: APHA (23rd edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.70	1.75	+0.05
4.18	4.20	+0.02
7.00	7.10	+0.10
	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	3.97	-0.03
7.0	7.18	+0.18
10.0	9.92	-0.08
	Tolerance Limit (pH unit)	±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	10.13	+1.3
20	19.08	-4.6
30	29.87	-0.4
	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:

HK2247977

ALS

SUB-BATCH:

0

DATE OF ISSUE:

09-Dec-2022

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/ [Pro Quatro]

09-December-2022

Serial No./

Equipment No.: Date of Calibration: [20M100002/20M101455]/[N/A]

Date of Next Calibration:

09-March-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)
9.0	8.0	-1.0
23.0	21.8	-1.2
44.0	42.4	-1.6
	Tolerance Limit (°C)	±2.0

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

10.3

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

In	formation	supplied	bv	customer:

CONTACT:

MR. JAMES CHU

JOB REFERENCE NO.:

22777053-K20C3901

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD.

DATE RECEIVED: DATE OF ISSUE:

20/10/2022 02/11/2022

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.:	1807073
Equipment No.:	
Date of Calibration:	31/10/2022

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:

WONG Chi Wai Sanio Senior Chemist Issue Date:

02/11/2022

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Form No.: HG022-002 Rev 0 20190101

Page 1 of 2

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-K20C3901

DATE OF ISSUE: 02/11/2022

CLIENT: LAM ENVIRONMENTAL SERVICES LTD,

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1807073	
Equipment No.:		
Date of Calibration:	31/10/2022	
Date of next Calibation:	31/01/2023	
Lab I.D.:	H220050-01	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.00	0.0%	
10	10.00	0.0%	
40	39.99	0.0%	
100	99.99	0.0%	
400	400	0.0%	
1000	1000	0.0%	
	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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Form No.: HG022-002 Rev 0 20190101

Page 2 of 2

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

Appendix 4.3

Wind Data



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.0	281(W)
	01:00	0.5	252(WSW)
	02:00	0.0	209(SSW)
	03:00	1.7	246(WSW)
	04:00	1.9	225(SW)
	05:00	1.1	156(SSE)
	06:00	1.1	297(WNW)
	07:00	0.5	259(W)
	08:00	0.0	297(WNW)
	09:00	1.9	224(SW)
	10:00	0.0	310(NW)
1-Jan-23	11:00	2.3	248(WSW)
1-Jan-23	12:00	2.1	194(SSW)
	13:00	1.1	293(WNW)
	14:00	1.5	195(SSW)
	15:00	2.1	226(SW)
	16:00	0.9	222(SW)
	17:00	1.3	273(W)
	18:00	1.7	193(SSW)
	19:00	0.0	282(WNW)
	20:00	1.1	247(WSW)
	21:00	0.0	263(W)
	22:00	0.0	324(NW)
	23:00	0.0	262(W)
	00:00	0.0	309(NW)
	01:00	0.0	272(W)
	02:00	0.0	260(W)
	03:00	0.0	340(NNW)
	04:00	0.0	246(WSW)
	05:00	0.0	268(W)
	06:00	1.5	53(NE)
	07:00	2.1	227(SW)
	08:00	3.3	211(SSW)
	09:00	1.3	298(WNW)
	10:00	1.5	159(SSE)
0 1 00	11:00	2.7	204(SSW)
2-Jan-23	12:00	1.5	141(SE)
	13:00	2.7	203(SSW)
	14:00	0.0	259(W)
	15:00	1.3	232(SW)
	16:00	2.7	275(W)
	17:00	1.5	187(S)
	18:00	1.3	174(S)
	19:00	1.7	234(SW)
	20:00	1.5	278(W)
	21:00	5.1	238(WSW)
	22:00	3.3	240(WSW)
	23:00	1.5	183(S)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	2.5	247(WSW)
	01:00	1.5	309(NW)
	02:00	2.5	247(WSW)
	03:00	2.7	289(WNW)
	04:00	5.7	234(SW)
	05:00	3.7	223(SW)
	06:00	3.1	256(WSW)
	07:00	3.3	231(SW)
	08:00	1.1	172(S)
	09:00	2.9	234(SW)
	10:00	4.7	236(SW)
0 lon 00	11:00	3.3	183(S)
3-Jan-23	12:00	4.3	257(WSW)
	13:00	2.9	248(WSW)
	14:00	2.3	205(SSW)
	15:00	2.3	151(SSE)
	16:00	2.7	249(WSW)
	17:00	1.3	252(WSW)
	18:00	2.1	245(WSW)
	19:00	1.7	214(SW)
	20:00	2.7	265(W)
	21:00	2.3	263(W)
	22:00	1.1	281(W)
	23:00	1.5	240(WSW)
	00:00	0.0	339(NNW)
	01:00	1.3	235(SW)
	02:00	1.9	265(W)
	03:00	2.1	212(SSW)
	04:00	1.3	189(S)
	05:00	2.9	230(SW)
	06:00	2.7	239(WSW)
	07:00	0.0	252(WSW)
	08:00	1.5	249(WSW)
	09:00	1.3	224(SW)
	10:00	2.1	315(NW)
4 lon 00	11:00	3.5	262(W)
4-Jan-23	12:00	1.9	199(SSW)
	13:00	2.7	199(SSW)
	14:00	0.5	302(WNW)
	15:00	2.1	265(W)
	16:00	1.3	221(SW)
	17:00	1.1	271(W)
	18:00	0.7	261(W)
	19:00	0.0	294(WNW)
	20:00	0.0	270(W)
	21:00	0.0	278(W)
	22:00	0.0	42(NE)
	23:00	0.0	267(W)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.0	36(NE)
	01:00	0.0	271(W)
	02:00	0.0	292(WNW)
	03:00	1.3	264(W)
	04:00	2.1	256(WSW)
	05:00	0.0	237(WSW)
	06:00	0.0	265(W)
	07:00	1.3	269(W)
	08:00	1.3	267(W)
	09:00	0.5	38(NE)
	10:00	0.0	148(SSE)
5-Jan-23	11:00	2.7	73(ENE)
5-Jan-25	12:00	0.7	80(E)
	13:00	0.0	151(SSE)
	14:00	1.7	182(S)
	15:00	0.0	302(WNW)
	16:00	0.5	288(WNW)
	17:00	1.5	268(W)
	18:00	1.9	293(WNW)
	19:00	1.5	248(WSW)
	20:00	2.9	277(W)
	21:00	1.5	277(W)
	22:00	1.9	288(WNW)
	23:00	0.0	267(W)
	00:00	0.0	243(WSW)
	01:00	0.0	282(WNW)
	02:00	0.0	270(W)
	03:00	0.0	227(SW)
	04:00	0.0	303(WNW)
	05:00	0.0	345(NNW)
	06:00	0.0	344(NNW)
	07:00	0.0	224(SW)
	08:00	0.0	245(WSW)
	09:00	3.3	244(WSW)
	10:00	4.5	235(SW)
0.100	11:00	3.3	257(WSW)
6-Jan-23	12:00	3.7	250(WSW)
	13:00	2.7	241(WSW)
	14:00	2.7	219(SW)
	15:00	2.3	253(WSW)
	16:00	2.5	234(SW)
	17:00	2.9	277(W)
	18:00	2.5	267(W)
	19:00	2.1	257(WSW)
	20:00	0.0	320(NW)
	21:00	0.0	265(W)
	22:00	2.5	262(W)
	23:00	2.5	284(WNW)
	23.00	۷.۵	20 1 (************************************



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	3.5	251(WSW)
	01:00	1.5	246(WSW)
	02:00	1.1	249(WSW)
	03:00	2.1	249(WSW)
	04:00	1.9	218(SW)
	05:00	1.7	237(WSW)
	06:00	1.7	307(NW)
	07:00	1.7	272(W)
	08:00	0.9	221(SW)
	09:00	1.3	238(WSW)
	10:00	4.1	210(SSW)
7-Jan-23	11:00	1.9	191(S)
7-Jan-23	12:00	1.1	244(WSW)
	13:00	1.3	71(ENE)
	14:00	1.7	306(NW)
	15:00	2.1	260(W)
	16:00	1.3	297(WNW)
	17:00	1.3	274(W)
	18:00	1.9	271(W)
	19:00	1.7	326(NW)
	20:00	1.9	252(WSW)
	21:00	0.0	114(ESE)
	22:00	1.9	309(NW)
	23:00	1.5	294(WNW)
	00:00	0.0	260(W)
	01:00	1.1	285(WNW)
	02:00	2.1	271(W)
	03:00	1.7	277(W)
	04:00	1.3	233(SW)
	05:00	0.0	262(W)
	06:00	2.1	270(W)
	07:00	1.9	272(W)
	08:00	0.0	312(NW)
	09:00	0.0	289(WNW)
	10:00	2.1	272(W)
0 100 00	11:00	3.7	283(WNW)
8-Jan-23	12:00	2.5	280(W)
	13:00	3.5	228(SW)
	14:00	2.9	237(WSW)
	15:00	3.1	305(NW)
	16:00	1.3	71(ÈNE)
İ	17:00	1.3	258(WSW)
	18:00	2.1	269(W)
ľ	19:00	1.7	285(WNW)
	20:00	2.9	301(WNW)
	21:00	2.5	264(W)
ŀ	22:00	0.9	315(NW)
ŀ	23:00	1.1	282(WNW)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.7	313(NW)
	01:00	0.0	283(WNW)
	02:00	1.3	279(W)
	03:00	0.9	293(WNW)
	04:00	1.3	246(WSW)
	05:00	1.9	249(WSW)
	06:00	2.1	247(WSW)
	07:00	1.3	221(SW)
	08:00	0.7	280(W)
	09:00	1.5	251(WSW)
	10:00	1.7	297(WNW)
9-Jan-23	11:00	1.1	153(SSE)
9-Jan-25	12:00	0.7	221(SW)
	13:00	1.5	266(W)
	14:00	1.1	225(SW)
	15:00	1.5	282(WNW)
	16:00	1.1	245(WSW)
	17:00	0.5	208(SSW)
	18:00	1.3	276(W)
	19:00	1.7	263(W)
	20:00	1.3	264(W)
	21:00	1.9	264(W)
	22:00	1.3	265(W)
	23:00	1.3	295(WNW)
	00:00	1.5	241(WSW)
	01:00	0.7	303(WNW)
	02:00	1.5	251(WSW)
	03:00	1.7	219(SW)
	04:00	1.5	239(WSW)
	05:00	2.7	236(SW)
	06:00	1.3	268(W)
	07:00	1.5	217(SW)
	08:00	2.3	242(WSW)
	09:00	1.9	236(SW)
	10:00	1.1	234(SW)
10-Jan-23	11:00	2.9	235(SW)
10-3411-23	12:00	2.3	195(SSW)
	13:00	1.1	268(W)
	14:00	1.1	257(WSW)
	15:00	1.5	268(W)
	16:00	2.1	244(WSW)
	17:00	1.1	185(S)
	18:00	1.9	284(WNW)
	19:00	0.9	245(WSW)
	20:00	1.5	263(W)
	21:00	1.1	260(W)
	22:00	0.5	290(WNW)
	23:00	1.1	234(SW)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.5	280(W)
	01:00	1.3	248(WSW)
	02:00	1.5	282(WNW)
	03:00	3.1	254(WSW)
	04:00	1.5	274(W)
	05:00	1.3	265(W)
	06:00	1.1	282(WNW)
	07:00	1.5	252(WSW)
	08:00	1.5	253(WSW)
	09:00	0.9	269(W)
	10:00	1.9	269(W)
11-Jan-23	11:00	2.3	246(WSW)
11-Jan-23	12:00	1.5	271(W)
	13:00	2.1	267(W)
	14:00	2.7	279(W)
	15:00	3.1	293(WNW)
	16:00	2.1	251(WSW)
	17:00	2.9	277(W)
	18:00	1.5	274(W)
	19:00	0.5	108(ESE)
	20:00	1.3	290(WNW)
	21:00	1.9	273(W)
	22:00	2.3	260(W)
	23:00	2.3	255(WSW)
	00:00	2.7	299(WNW)
	01:00	4.3	283(WNW)
	02:00	3.3	214(SW)
	03:00	3.3	280(W)
	04:00	1.1	227(SW)
	05:00	0.7	160(SSE)
	06:00	2.5	266(W)
	07:00	1.7	269(W)
	08:00	2.9	272(W)
	09:00	4.1	282(WNW)
	10:00	1.9	326(NW)
40 lan 00	11:00	2.3	303(WNW)
12-Jan-23	12:00	1.1	56(NE)
ŀ	13:00	1.3	288(WNW)
ŀ	14:00	2.9	260(W)
	15:00	2.3	341(NNW)
	16:00	1.3	278(W)
	17:00	2.1	298(WNW)
ļ	18:00	2.7	307(NW)
	19:00	1.7	254(WSW)
	20:00	2.1	262(W)
	21:00	2.7	265(W)
	22:00	1.1	46(NE)
	23:00	1.1	331(NNW)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	1.7	22(NNE)
	01:00	1.1	8(N)
	02:00	0.9	225(SW)
	03:00	0.0	312(NW)
	04:00	1.1	343(NNW)
	05:00	2.3	262(W)
	06:00	1.7	317(NW)
	07:00	0.7	298(WNW)
	08:00	0.9	310(NW)
	09:00	0.0	20(NNE)
	10:00	1.1	302(WNW)
13-Jan-23	11:00	0.5	127(SE)
13-3411-23	12:00	1.5	19(NNE)
	13:00	0.0	287(WNW)
	14:00	1.1	278(W)
	15:00	1.3	347(NNW)
	16:00	0.9	246(WSW)
	17:00	0.5	242(WSW)
	18:00	1.5	310(NW)
	19:00	1.3	246(WSW)
	20:00	1.1	6(N)
	21:00	0.0	313(NW)
	22:00	0.0	83(E)
	23:00	3.1	50(NE)
	00:00	1.7	64(ENE)
	01:00	1.3	336(NNW)
	02:00	0.9	258(WSW)
	03:00	0.0	267(W)
	04:00	0.0	291(WNW)
	05:00	0.7	267(W)
	06:00	1.1	283(WNW)
	07:00	1.3	261(W)
	08:00	0.0	300(WNW)
	09:00	0.9	298(WNW)
	10:00	0.0	352(N)
14-Jan-23	11:00	0.0	141(SE)
14-Jan-23	12:00	2.5	109(ESE)
	13:00	1.7	145(SE)
	14:00	1.3	60(ENE)
	15:00	0.9	279(W)
	16:00	1.9	90(E)
	17:00	1.5	316(NW)
	18:00	0.9	323(NW)
	19:00	0.7	115(ESE)
	20:00	1.3	272(W)
	21:00	0.7	307(NW)
	22:00	0.0	312(NW)
	23:00	0.7	270(W)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.0	333(NNW)
	01:00	1.3	305(NW)
	02:00	0.5	318(NW)
	03:00	0.0	287(WNW)
	04:00	0.0	297(WNW)
	05:00	0.7	66(ENE)
	06:00	1.5	261(W)
	07:00	3.1	202(SSW)
	08:00	4.7	183(S)
	09:00	2.9	225(SW)
	10:00	1.9	225(SW)
15-Jan-23	11:00	1.9	233(SW)
15-3411-25	12:00	5.1	277(W)
	13:00	4.7	260(W)
	14:00	5.9	230(SW)
	15:00	3.9	198(SSW)
	16:00	3.7	277(W)
	17:00	6.3	249(WSW)
	18:00	5.1	175(S)
	19:00	3.5	224(SW)
	20:00	3.7	237(WSW)
	21:00	3.3	283(WNW)
	22:00	7.1	229(SW)
	23:00	3.9	223(SW)
	00:00	5.3	241(WSW)
	01:00	5.3	262(W)
	02:00	2.9	244(WSW)
	03:00	2.5	167(SSE)
	04:00	7.9	222(SW)
	05:00	3.1	285(WNW)
	06:00	1.7	233(SW)
	07:00	5.1	245(WSW)
	08:00	3.1	262(W)
	09:00	2.7	186(S)
	10:00	2.7	319(NW)
16-Jan-23	11:00	3.3	204(SSW)
10-3411-23	12:00	2.1	267(W)
	13:00	2.9	168(SSE)
	14:00	2.5	211(SSW)
	15:00	2.5	202(SSW)
	16:00	3.1	255(WSW)
	17:00	2.9	206(SSW)
	18:00	2.9	293(WNW)
	19:00	2.7	256(WSW)
ľ	20:00	2.3	235(SW)
,	21:00	1.3	348(NNW)
	22:00	3.9	281(W)
	23:00	1.7	203(SSW)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	5.9	251(WSW)
	01:00	3.5	232(SW)
	02:00	1.1	205(SSW)
	03:00	2.9	245(WSW)
	04:00	4.3	233(SW)
	05:00	2.1	253(WSW)
	06:00	2.9	240(WSW)
	07:00	1.9	243(WSW)
	08:00	1.7	225(SW)
	09:00	2.3	203(SSW)
	10:00	2.3	201(SSW)
17-Jan-23	11:00	2.3	267(W)
17-Jan-25	12:00	1.7	212(SSW)
	13:00	1.7	244(WSW)
	14:00	1.5	117(ESE)
	15:00	0.9	151(SSE)
	16:00	1.7	185(S)
	17:00	2.1	164(SSE)
	18:00	0.9	286(WNW)
	19:00	0.7	345(NNW)
	20:00	1.3	227(SW)
Ī	21:00	0.9	60(ENE)
Ī	22:00	1.3	288(WNW)
	23:00	1.9	248(WSW)
	00:00	1.5	248(WSW)
	01:00	1.5	210(SSW)
	02:00	2.7	239(WSW)
	03:00	2.5	240(WSW)
	04:00	2.9	221(SW)
	05:00	3.1	267(W)
	06:00	1.1	177(S)
	07:00	4.3	244(WSW)
	08:00	2.3	192(SSW)
	09:00	2.7	218(SW)
	10:00	2.7	199(SSW)
18-Jan-23	11:00	3.9	214(SW)
10-Jan-23	12:00	2.5	211(SSW)
	13:00	2.3	181(S)
	14:00	1.3	220(SW)
	15:00	2.7	229(SW)
	16:00	1.7	286(WNW)
Ī	17:00	1.5	173(S)
Ī	18:00	0.7	291(WNW)
	19:00	0.5	284(WNW)
	20:00	1.1	109(ESE)
 	21:00	0.9	116(ESE)
	22:00	1.3	119(ESE)
ľ	23:00	1.1	242(WSW)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.5	126(SE)
	01:00	0.5	314(NW)
	02:00	1.1	238(WSW)
	03:00	0.5	300(WNW)
	04:00	0.5	288(WNW)
	05:00	0.7	280(W)
	06:00	0.9	265(W)
	07:00	0.0	55(NE)
	08:00	1.1	103(ESE)
	09:00	1.1	262(W)
	10:00	1.1	238(WSW)
19-Jan-23	11:00	0.7	185(S)
19-3411-23	12:00	0.7	276(W)
	13:00	1.5	113(ESE)
	14:00	2.1	98(E)
	15:00	2.1	171(S)
	16:00	1.1	175(S)
	17:00	1.1	173(S)
	18:00	0.5	168(SSE)
	19:00	0.7	35(NE)
	20:00	0.9	242(WSW)
	21:00	0.7	296(WNW)
	22:00	0.5	96(E)
	23:00	0.0	347(NNW)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	1.3	232(SW)
	01:00	0.9	270(W)
	02:00	0.0	310(NW)
	03:00	0.7	298(WNW)
	04:00	1.7	219(SW)
	05:00	1.7	187(S)
	06:00	1.7	278(W)
	07:00	2.9	196(SSW)
	08:00	2.1	198(SSW)
	09:00	1.7	240(WSW)
	10:00	2.5	272(W)
20-Jan-23	11:00	1.3	237(WSW)
20-Jan-25	12:00	1.1	131(SE)
	13:00	2.3	319(NW)
	14:00	1.3	172(S)
	15:00	1.3	209(SSW)
	16:00	2.3	198(SSW)
	17:00	1.1	222(SW)
	18:00	0.7	20(NNE)
	19:00	0.0	310(NW)
	20:00	0.0	287(WNW)
	21:00	0.5	297(WNW)
	22:00	0.0	328(NNW)
	23:00	0.9	259(W)
	00:00	1.7	276(W)
	01:00	0.7	333(NNW)
	02:00	1.1	269(W)
	03:00	1.5	301(WNW)
	04:00	1.5	284(WNW)
	05:00	1.3	273(W)
	06:00	1.3	277(W)
	07:00	1.1	245(WSW)
	08:00	0.9	250(WSW)
	09:00	1.1	300(WNW)
	10:00	1.1	244(WSW)
21-Jan-23	11:00	2.7	134(SE)
21-Jan-25	12:00	2.7	143(SE)
	13:00	1.1	136(SE)
	14:00	1.1	177(S)
	15:00	1.5	113(ESE)
	16:00	1.9	109(ESE)
ľ	17:00	1.3	145(SE)
ľ	18:00	1.3	51(NE)
Ī	19:00	0.7	271(W)
Ī	20:00	2.3	134(SE)
	21:00	2.3	111(ESÉ)
 	22:00	1.1	118(ESE)
	23:00	1.5	78(ENE)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.0	250(WSW)
	01:00	0.9	132(SE)
	02:00	1.7	126(SE)
	03:00	1.1	122(ESE)
	04:00	1.1	121(ESE)
	05:00	0.9	138(SE)
	06:00	0.9	158(SSE)
	07:00	0.9	149(SSE)
	08:00	1.3	98(E)
	09:00	1.3	75(ENE)
	10:00	0.7	215(SW)
22-Jan-23	11:00	1.3	79(E)
22-Jan-23	12:00	0.9	44(NE)
	13:00	0.9	351(N)
	14:00	2.3	96(E)
	15:00	1.3	224(SW)
	16:00	1.1	85(E)
	17:00	1.5	110(ESE)
	18:00	1.5	172(S)
	19:00	1.5	94(E)
	20:00	2.7	111(ESE)
	21:00	1.3	124(SE)
	22:00	1.7	94(E)
	23:00	1.1	98(E)
	00:00	1.7	116(ESE)
	01:00	0.0	134(SE)
	02:00	0.0	268(W)
	03:00	0.0	285(WNW)
	04:00	0.0	286(WNW)
	05:00	0.0	116(ESE)
	06:00	0.0	141(SE)
	07:00	0.0	274(W)
	08:00	0.0	196(SSW)
	09:00	0.0	285(WNW)
	10:00	0.0	313(NW)
23-Jan-23	11:00	1.7	287(WNW)
25-5411-25	12:00	1.3	333(NNW)
	13:00	1.3	270(W)
Ī	14:00	3.9	121(ESE)
Ī	15:00	0.5	223(SW)
Ī	16:00	1.5	274(W)
Ī	17:00	2.3	92(E)
	18:00	1.1	80(E)
Ī	19:00	0.0	280(W)
Ī	20:00	2.3	111(ESE)
Ī	21:00	1.1	111(ESE)
<u> </u>	22:00	1.1	189(S)
	23:00	1.3	105(ESE)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.9	147(SSE)
	01:00	2.3	92(E)
	02:00	1.7	54(NE)
	03:00	3.1	109(ESE)
	04:00	2.1	134(SE)
	05:00	2.7	108(ESE)
	06:00	1.9	134(SE)
	07:00	1.3	130(SE)
	08:00	2.1	98(E)
	09:00	5.1	91(E)
	10:00	3.7	70(ENE)
24-Jan-23	11:00	3.9	68(ENE)
24-Jan-25	12:00	3.3	79(E)
	13:00	1.9	170(S)
	14:00	6.1	96(E)
	15:00	4.3	90(E)
	16:00	3.9	57(ENE)
	17:00	2.5	82(E)
	18:00	5.9	85(E)
	19:00	3.3	121(ESE)
	20:00	1.7	78(ENE)
	21:00	1.3	93(E)
	22:00	2.1	66(ENE)
	23:00	2.3	120(ESE)
	00:00	1.5	164(SSE)
	01:00	4.7	82(E)
	02:00	4.7	70(ENE)
	03:00	6.1	116(ESE)
	04:00	6.1	86(E)
	05:00	5.5	65(ENE)
	06:00	1.7	98(E)
	07:00	5.3	70(ENE)
	08:00	3.5	42(NE)
	09:00	2.9	88(E)
	10:00	1.9	15(NNE)
25-Jan-23	11:00	1.7	34(NE)
25-Jan-25	12:00	1.9	52(NE)
	13:00	3.3	111(ESE)
	14:00	0.7	239(WSW)
	15:00	0.9	72(ENE)
	16:00	1.3	125(SE)
ľ	17:00	1.3	50(NE)
[18:00	2.1	73(ENE)
Ī	19:00	1.5	81(E)
Ī	20:00	0.9	140(SE)
	21:00	0.9	112(ESÉ)
	22:00	1.5	94(E)
	23:00	0.0	101(E)



26-Jan-23 00:00 1.3 01:00 2.1 115(ESE) 02:00 1.1 111(ESE) 03:00 0.9 135(SE) 04:00 0.9 191(S) 05:00 1.3 141(SE) 06:00 1.1 109(ESE) 07:00 0.9 110(ESE) 08:00 1.3 98(E) 09:00 0.0 11.7 126(SE) 11:00 0.9 265(W) 12:00 1.7 70(ENE) 13:00 1.7 132(SE) 14:00 4.5 91(E) 16:00 1.7 90(E) 17:00 1.3 84(E) 16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 19:00 1.1 19:00 1.1 19:00 1.1 19:00 1.1 19:00 1.1 19:00 1.1 19:00 1.1 19:00 1.1 19:00 1.1 19:00 22:00 1.1 19:00 1.1 19:00 1.1 19:00 23:00 0.5 129(SE) 00:00 1.1 140(SE) 01:00 0.7 163(SSE) 02:00 0.0 188(S) 03:00 1.3 271(W) 04:00 03.3 104(ESE) 06:00 2.7 06:00 2.5 06:00 2.7 06:00 2.7 06:00 2.7 06:00 0.25 90(E) 07:00 0.25 90(E) 08:00 4.1 108(ESE) 09:00 0.4.1 108(ESE) 09:00 2.5 90(E) 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 90(E) 14:00 3.1 109(ESE) 11:00 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 90(E) 14:00 3.1 109(ESE) 11:00 3.1 109(ESE) 11:00 3.1 109(ESE) 11:00 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 90(E) 14:00 3.1 109(ESE) 11:00 11:00 11:00 11:00 12:00 11:00 11:00 11:00 11:00 12:00 11:00 11:00 11:00 12:00 11:00	Date	Time	Wind Speed (m/s)	Wind Direction (degree)
02:00		00:00	1.3	86(E)
03:00 0.9 135(SE) 04:00 0.9 191(S) 05:00 1.3 141(SE) 06:00 1.1 199(ESE) 07:00 0.9 110(ESE) 07:00 0.9 110(ESE) 08:00 1.3 98(E) 09:00 0.0 122(SSW) 10:00 1.7 126(SE) 11:00 0.9 265(W) 11:00 1.7 70(ENE) 13:00 1.7 70(ENE) 13:00 1.7 70(ENE) 15:00 2.9 87(E) 16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.3 84(E) 20:00 0.5 182(S) 21:00 1.1 93(E) 20:00 1.1 93(E) 20:00 1.1 193(E) 20:00 0.5 129(SE) 00:00 1.1 140(SE) 01:00 0.7 163(SSE) 01:00 0.7 163(SSE) 02:00 0.0 13 271(W) 04:00 3.3 104(ESE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 06:00 2.5 90(E) 08:00 4.1 108(ESE) 10:00 4.3 89(E) 27-Jan-23 27-Jan-23 27-Jan-23 27-Jan-23 1:00 3.1 16(NNE) 15:00 3.1 199(ESE) 11:00 3.1 199(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 75(ENE)		01:00	2.1	115(ESE)
04:00		02:00	1.1	111(ESE)
05:00 1.3 141(SE) 06:00 1.1 109(ESE) 07:00 0.9 110(ESE) 08:00 1.3 98(E) 09:00 0.0 192(SSW) 10:00 1.7 126(SE) 11:00 0.9 265(W) 12:00 1.7 70(ENE) 13:00 1.7 132(SE) 14:00 4.5 91(E) 15:00 2.9 87(E) 16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 69(S) 22:00 1.1 169(S) 22:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 1.1 140(SE) 00:00 1.1 140(SE) 00:00 1.1 140(SE) 00:00 0.7 163(SSE) 00:00 1.3 271(W) 04:00 3.3 104(ESE) 05:00 2.7 68(ENE) 06:00 2.5 90(E) 06:00 2.5 90(E) 27-Jan-23 27-Jan-23		03:00	0.9	135(SE)
06:00 1.1 109(ESE) 07:00 0.9 110(ESE) 08:00 1.3 98(E) 09:00 0.0 192(SSW) 10:00 1.7 126(SE) 11:00 0.9 265(W) 12:00 1.7 70(ENE) 13:00 1.7 132(SE) 14:00 4.5 91(E) 15:00 2.9 87(E) 16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 169(S) 22:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 1.1 163(SSE) 00:00 1.1 163(SSE) 00:00 1.3 271(W) 04:00 3.3 104(ESE) 06:00 2.7 68(ENE) 06:00 2.5 90(E) 06:00 4.3 89(E) 27-Jan-23 27-Jan-23 27-Jan-23		04:00	0.9	191(S)
26-Jan-23 27-Jan-23 27-Jan-24 27-Jan-25 28-Jan-26 28-Jan-26 28-Jan-27 28-Jan-28		05:00	1.3	141(SE)
26-Jan-23 08:00		06:00	1.1	109(ESE)
26-Jan-23 09:00		07:00	0.9	110(ESE)
26-Jan-23 10:00		08:00	1.3	98(E)
26-Jan-23 11:00 12:00 1.7 70(ENE) 13:00 1.7 132(SE) 14:00 4.5 91(E) 15:00 2.9 87(E) 16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.9:00 1.1 93(E) 20:00 0.5 182(S) 21:00 1.1 93(E) 22:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 1.1 140(SE) 01:00 0.7 163(SSE) 02:00 0.00 188(S) 03:00 1.3 271(W) 04:00 3.3 104(ESE) 06:00 2.7 68(ENE) 06:00 2.7 68(ENE) 06:00 2.7 68(ENE) 06:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 112(ESE) 11:00 3.3 36(NE) 12:00 2.1 171(ENE) 13:00 2.5 82(E) 17:00 1.7 16:00 2.5 82(E) 17:00 1.7 17(ENE) 16:00 2.5 82(E) 17:00 1.7 16:00 2.5 82(E) 17:00 1.7 11.00 11.		09:00	0.0	192(SSW)
26-Jan-23 12:00 1.7 13:00 1.7 132(SE) 14:00 4.5 91(E) 15:00 2.9 87(E) 16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 190(S) 23:00 0.5 129(SE) 00:00 1.1 140(SE) 01:00 0.7 163(SSE) 02:00 0.0 1.3 271(W) 04:00 3.3 104(ESE) 06:00 2.5 06:00 2.5 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 27-Jan-23 27-Jan-23 27-Jan-23 12:00 2.5 12:00 2.6 12:00 2.7 12:00 2.1 12:00 2.1 12:00 2.1 12:00 2.1 12:00 2.1 12:00 2.1 12:00 2.1 12:00 2.1 12:00 2.1 12:00 2.5 10:00 10:00 13 89(E) 11:00 3.3 36(NE) 12:00 2.5 100(E) 11:00 11:0		10:00	1.7	126(SE)
12:00 1.7 70(ENE) 13:00 1.7 132(SE) 14:00 4.5 91(E) 15:00 2.9 87(E) 16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 93(E) 22:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 0.7 163(SSE) 01:00 0.7 163(SSE) 02:00 0.0 1.3 271(W) 04:00 3.3 104(ESE) 06:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 11:00 3.3 36(NE) 27-Jan-23 27-Jan-23 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 82(E) 11:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 16(NNE) 19:00 1.1 1267(W) 20:00 4.3 100(E) 21:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.1 267(W) 20:00 4.3 100(E)	26 Jan 22	11:00	0.9	265(W)
14:00	20-Jan-23	12:00	1.7	70(ENE)
15:00 2.9 87(E) 16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 93(E) 22:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 1.1 140(SE) 01:00 0.7 163(SSE) 02:00 0.0 188(S) 03:00 1.3 271(W) 04:00 3.3 104(ESE) 05:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 127-Jan-23 27-Jan-23 15:00 3.1 109(ESE) 15:00 3.1 15(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)		13:00	1.7	132(SE)
16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 93(E) 22:00 1.1 193(E) 23:00 0.5 129(SE) 00:00 0.7 163(SSE) 02:00 0.0 188(S) 03:00 1.3 271(W) 04:00 3.3 104(ESE) 05:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 127-Jan-23 11:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)		14:00	4.5	91(E)
16:00 1.7 90(E) 17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 93(E) 22:00 1.1 193(E) 23:00 0.5 129(SE) 00:00 0.7 163(SSE) 02:00 0.0 188(S) 03:00 1.3 271(W) 04:00 3.3 104(ESE) 05:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 127-Jan-23 11:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)		15:00	2.9	
17:00 1.3 84(E) 18:00 0.0 240(WSW) 19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 93(E) 22:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 1.1 140(SE) 01:00 0.7 163(SSE) 02:00 0.0 188(S) 03:00 1.3 271(W) 04:00 3.3 104(ESE) 06:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 27-Jan-23 11:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)		16:00	1	
19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 93(E) 22:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 1.1 140(SE) 01:00 0.7 163(SSE) 02:00 0.0 188(S) 03:00 1.3 271(W) 04:00 3.3 104(ESE) 05:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 27-Jan-23 27-Jan-23 27-Jan-23 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)		17:00	1.3	
19:00 1.3 69(ENE) 20:00 0.5 182(S) 21:00 1.1 93(E) 22:00 1.1 169(S) 23:00 0.5 129(SE) 00:00 1.1 140(SE) 01:00 0.7 163(SSE) 02:00 0.0 188(S) 03:00 1.3 271(W) 04:00 3.3 104(ESE) 05:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 27-Jan-23 27-Jan-23 27-Jan-23 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)		18:00	0.0	240(WSW)
20:00			1.3	
21:00		20:00	0.5	
22:00				
23:00 0.5 129(SE) 00:00 1.1 140(SE) 01:00 0.7 163(SSE) 02:00 0.0 188(S) 03:00 1.3 271(W) 04:00 3.3 104(ESE) 05:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 2.1 75(ENE)			1.1	, ,
27-Jan-23 00:00		23:00	0.5	
01:00				
02:00 0.0 188(S) 03:00 1.3 271(W) 04:00 3.3 104(ESE) 05:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)		01:00	0.7	
03:00			0.0	
05:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E)		03:00	1.3	
05:00 2.7 68(ENE) 06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E)		04:00	3.3	` ,
06:00 2.5 80(E) 07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)		05:00		
07:00 2.5 90(E) 08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)			2.5	
08:00 4.1 108(ESE) 09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)			2.5	
09:00 6.5 102(ESE) 10:00 4.3 89(E) 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)				, ,
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27-Jan-23 11:00 3.3 36(NE) 12:00 2.1 71(ENE) 13:00 2.5 100(E) 14:00 3.1 109(ESE) 15:00 3.1 16(NNE) 16:00 2.5 82(E) 17:00 1.7 217(SW) 18:00 3.1 75(ENE) 19:00 1.1 267(W) 20:00 4.3 100(E) 21:00 1.5 80(E)				, ,
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20:00 4.3 100(E) 21:00 1.5 80(E)				
21:00 1.5 80(E)				
22:00 3.5 75(ENE)				
23:00 1.5 123(ESE)			+	



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	4.1	76(ENE)
	01:00	1.7	132(SE)
	02:00	2.7	158(SSE)
	03:00	2.7	107(ESE)
	04:00	1.5	92(E)
	05:00	0.7	144(SE)
	06:00	3.5	97(E)
	07:00	4.9	115(ESE)
	08:00	3.1	132(SE)
	09:00	4.1	48(NE)
	10:00	2.1	154(SSE)
00 lan 00	11:00	5.9	82(E)
28-Jan-23	12:00	1.5	135(SE)
	13:00	2.7	99(E)
	14:00	1.5	52(NÉ)
	15:00	2.1	29(NNÉ)
	16:00	1.9	86(E)
	17:00	2.3	55(NÉ)
	18:00	1.5	68(ENÉ)
	19:00	0.9	120(ESÉ)
	20:00	0.0	303(WNW)
	21:00	0.0	157(SSE)
	22:00	1.1	113(ESE)
	23:00	0.0	259(W)
	00:00	1.9	94(E)
	01:00	2.5	58(ENE)
	02:00	1.5	86(E)
	03:00	0.9	271(W)
	04:00	2.5	139(SE)
	05:00	1.5	124(SE)
	06:00	2.1	117(ESE)
	07:00	3.9	87(E)
	08:00	1.3	67(ENE)
	09:00	1.3	220(SW)
	10:00	1.5	57(ENE)
	11:00	1.5	170(S)
29-Jan-23	12:00	1.1	150(SSE)
	13:00	2.1	106(ESE)
	14:00	1.9	295(WNW)
	15:00	0.9	334(NNW)
	16:00	1.5	104(ESE)
	17:00	2.5	89(E)
	18:00	0.0	224(SW)
	19:00	0.0	286(WNW)
	20:00	0.0	
	21:00	0.0	328(NNW)
	22:00	1	75(ENE)
		0.0	58(ENE)
	23:00	0.0	116(ESE)



Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.0	139(SE)
	01:00	0.0	130(SE)
	02:00	0.0	97(E)
	03:00	1.1	100(E)
	04:00	0.0	143(SE)
	05:00	0.0	201(SSW)
	06:00	0.0	78(ENE)
	07:00	0.0	162(SSE)
	08:00	0.0	257(WSW)
	09:00	0.0	278(W)
	10:00	1.5	54(NE)
30-Jan-23	11:00	0.0	157(SSE)
30-Jan-23	12:00	2.3	98(E)
	13:00	1.1	46(NE)
	14:00	1.5	189(S)
	15:00	4.1	138(SE)
	16:00	1.1	261(W)
	17:00	1.9	278(W)
	18:00	0.0	257(WSW)
	19:00	0.0	182(S)
	20:00	1.3	94(E)
	21:00	0.0	82(E)
	22:00	0.0	76(ENE)
	23:00	0.0	100(E)
	00:00	0.0	84(E)
	01:00	1.5	90(E)
	02:00	0.7	124(SE)
	03:00	0.0	134(SE)
	04:00	1.5	91(E)
	05:00	1.7	93(E)
	06:00	0.0	93(E)
	07:00	0.9	82(E)
	08:00	1.7	110(ESE)
	09:00	1.7	80(E)
	10:00	2.9	149(SSE)
04 1 00	11:00	2.7	117(ESE)
31-Jan-23	12:00	1.3	287(WNW)
	13:00	1.9	241(WSW)
	14:00	2.1	97(E)
	15:00	1.3	134(SE)
	16:00	2.9	69(ENE)
	17:00	1.9	158(SSE)
	18:00	1.5	114(ESE)
	19:00	0.5	290(WNW)
	20:00	1.3	140(SE)
	21:00	0.0	264(W)
	22:00	0.9	175(S)
	23:00	2.1	163(SSE)
	23.00	۷.۱	103(33E)

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		
Sunday	Monday	Tuesday	Jan 2023 Wednesday	Thursday	Friday	Saturday
1-Jan	2-Jan	3-Jan	4-Jan	5-Jai		7-Jan
			AQM+24hr TSP	AQM + 1hr TSP		
				NM	Factorical Manitorica	
					Ecological Monitoring	
			Water Quality Monitoring		Water Quality Monitoring	
8-Jan	9-Jan	10-Jan	11-Jan	12-Jai	n 13-Jan	14-Jan
		AQM+24hr TSP	AQM + 1hr TSP NM			
		Ecological Monitoring	INIVI			
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
15-Jan		17-Jan	18-Jan	19-Jai		21-Jan
	AQM+24hr TSP	AQM + 1hr TSP NM			AQM+24hr TSP	AQM + 1hr TSP NM
		TAIVI		Ecological Monitoring		INIVI
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
22-Jan	23-Jan	24-Jan	25-Jan	26-Jai		28-Jan
				AQM+24hr TSP	AQM + 1hr TSP NM	
					Ecological Monitoring	
					Water Quality Monitoring	
29-Jan	30-Jan	31-Jan				
	Water Quality Monitoring					

- Remarks

 AOM: 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 contractor, the outfall works are not schudle on 2, 23, 24 and 25 Jan 2022, so the related WQM was cancelled.



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

Sunday Monday Tuesday Wednesday Thursday Friday Saturda	y 4-Feb
AQM+24hr TSP AQM+1hr TSP NM Ecological Monitoring Water Quality Monitoring Water Quality Monitoring 5-Feb 6-Feb 7-Feb 8-Feb 9-Feb 10-Feb	4-Feb
Water Quality Monitoring 10-Feb 8-Feb 9-Feb 10-Feb	
Water Quality Monitoring 10-Feb 8-Feb 9-Feb 10-Feb	
Water Quality Monitoring Water Quality Monitoring Water Quality Monitoring 5-Feb 6-Feb 7-Feb 8-Feb 9-Feb 10-Feb	
Water Quality Monitoring Water Quality Monitoring Water Quality Monitoring 5-Feb 6-Feb 7-Feb 8-Feb 9-Feb 10-Feb	
5-Feb 6-Feb 7-Feb 8-Feb 9-Feb 10-Feb	
5-Feb 6-Feb 7-Feb 8-Feb 9-Feb 10-Feb	
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Water Quality Monitoring Water Quality Monitoring Water Quality Monitoring	Į.
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12-Feb 13-Feb 15-Feb 16-Feb 17-Feb	18-Feb
AQM+24hr TSP AQM+24hr TSP AQM+24hr TSP	
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Water Quality Monitoring Water Quality Monitoring Water Quality Monitoring	Į.
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19-Feb 20-Feb 21-Feb 22-Feb 23-Feb 24-Feb	25-Feb
AQM+1hrTSP AQM+2hrTSP AQM+1hrTSP	
NM NM	l
Ecological Monitoring	l
Water Quality Monitoring Water Quality Monitoring Water Quality Monitoring	Į.
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26-Feb 27-Feb 28-Feb	
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Remarks

- AOM: 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 Mar 2023

			Mar 2023			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Mar	2-Mar		4-Mar
				AQM+24hr TSP	AQM + 1hr TSP NM	
			Ecological Monitoring		INIVI	
			Ecological Monitoring			
			Water Quality Monitoring		Water Quality Monitoring	
			Water Quality Worldoning		water quality Monitoring	
5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar
O Mai	o mai	7 11101	AQM+24hr TSP	AQM + 1hr TSP	10 110.1	11 116
				NM		
				1	Ecological Monitoring	
Wa	ater Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
	, , , , , , , , , , , , , , , , , , ,		, , , , , ,		, , , , , , , , , , , , , , , , , , , ,	
12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar
		AQM+24hr TSP	AQM + 1hr TSP			
			NM			
		Ecological Monitoring				
Wa	ater Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar
AQM+	+24hr TSP	AQM + 1hr TSP				AQM+24hr TSP
					Ecological Monitoring	
We	ater Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
VV	ater Quality Morntoning		water Quality Monitoring		Water Quality Monitoring	
26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	
	+ 1hr TSP	20-IVIdI	20-Wai	50-Iviai	AQM+24hr TSP	
NM						
			Ecological Monitoring			
Wa	ater Quality Monitoring					
	, 3					
				l	1	

- AOM: 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.

Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Location: NM1 - G/F, Wai Loi Tsuen

				Measurement Noise Level Baseline Level Construction Noise Level Limit Leve					Limit Level
Date	Time	Weather	Wind Speed	Leq	L10	L90	Leq	Leq	Leq
			(m/s)				Unit: dB((A), (30min)	
05/01/2023	9:25	Fine	0.0	58.4	59.8	56.7	63.4	58	75
11/01/2023	11:00	Cloudy	0.0	57.8	59.6	55.8	63.4	58	75
17/01/2023	9:30	Fine	0.0	56.5	58.1	52.6	63.4	57	75
27/01/2023	8:30	Cloudy	0.0	57.9	59.2	55.4	63.4	58	75

Location: NM2 - G/F, Fu Tei Au

				Measurement Noise Level Baseline Level Construction Noise Level Limit Le				Limit Level	
Date	Time	Weather	Wind Speed	Leq	L10	L90	Leq	Leq	Leq
			(m/s)	Unit: dB(A), (30-min)					
05/01/2023	8:45	Fine	0.0	64.0	65.9	60.4	58.0	63	75
11/01/2023	9:05	Cloudy	0.0	65.0	65.7	61.6	58.0	64	75
17/01/2023	10:30	Fine	0.0	64.0	63.7	58.7	58.0	63	75
27/01/2023	9:15	Cloudy	0.0	62.6	64.5	58.4	58.0	61	75

Location: NM3 - G/F, Man kok Village

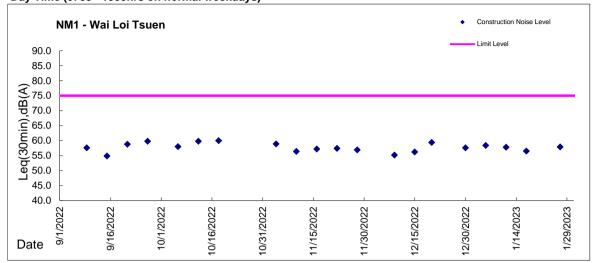
				Measurement Noise Level Baseline Level Construction Noise Level Limit Level					Limit Level
Date	Time	Weather	Wind Speed	Leq	L10	L90	Leq	Leq	Leq
			(m/s)	Unit: dB(A), (30min)					
05/01/2023	10:05	Fine	0.0	60.4	62.1	56.4	63.4	60	75
11/01/2023	10:15	Cloudy	0.0	61.7	65.0	51.4	63.4	62	75
17/01/2023	11:25	Fine	0.0	59.8	63.5	51.0	63.4	60	75
27/01/2023	10:00	Cloudy	0.0	61.3	64.0	54.2	63.4	61	75

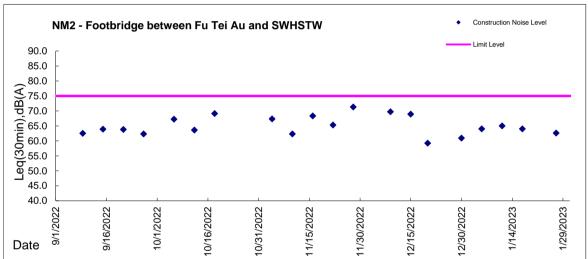
^{*} Free field correction (Additional 3dB(A)) was made on NM1, NM2, and NM3 measurement result

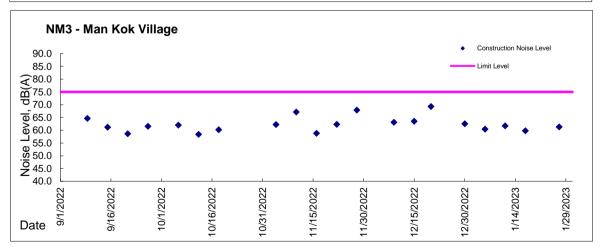


Graphic Presentation of Noise Monitoring Result

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 (μ g/m3) - 320 Limit Level (μ g/m3) - 500

Date	Weather Condition	Time	Mass Concentration (µg/m3)	Model No.	Serial No.
5-Jan-23	Fine	8:00	92		
5-Jan-23	Fine	9:00	70		
5-Jan-23	Fine	10:00	46		
11-Jan-23	Cloudy	8:16	23		
11-Jan-23	Cloudy	9:16	16		
11-Jan-23	Cloudy	10:16	22		
17-Jan-23	Fine	13:40	26		
17-Jan-23	Fine	14:40	30		
17-Jan-23	Fine	15:40	33	AEROCET 831	Y23154
21-Jan-23	Cloudy	8:06	89	AEROCE I 631	123134
21-Jan-23	Cloudy	9:06	74		
21-Jan-23	Cloudy	10:06	67		
27-Jan-23	Fine	8:06	60		
27-Jan-23	Fine	9:06	71		
27-Jan-23	Fine	10:06	68		



Report on 1-hour TSP monitoring at AM2 - Footbridge between Fu Tei Au and SWHSTW Action Level (μ g/m3) - 322 Limit Level (μ g/m3) - 500

Date	Weather Condition Time Mass Concentration (µg/m3)		Model No.	Serial No.	
5-Jan-23	Fine	8:39	70		
5-Jan-23	Fine	9:39	43		
5-Jan-23	Fine	10:39	33		
11-Jan-23	Cloudy	9:00	11		
11-Jan-23	Cloudy	10:00	16		
11-Jan-23	Cloudy	11:00	20		
17-Jan-23	Fine	13:15	32		
17-Jan-23	Fine	14:15	35		
17-Jan-23	Fine	15:15	39	AEROCET 831	R14332
21-Jan-23	-Jan-23 Cloudy 8:40 -Jan-23 Cloudy 9:40		62	ALROCLI 631	1(14332
21-Jan-23			51		
21-Jan-23	Cloudy	10:40	45		
27-Jan-23	Fine	8:38	49		
27-Jan-23	Fine	9:38	50		
27-Jan-23	Fine	10:48	52		
		·			
		·			



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	Weather	Pressu	re, hPa	Temp	o., °C	Filter paper no.	Filter Weigh	ıt, g	Elapse Time	, hr	Sampling	Flow Rate,	m³/min		Total	TSP Level,	Model No.	Serial No.
	Time	Condition	Initial	Final	Initial	Final		Initial	Final	Initial	Final	Time, hr	Initial, Qsi	Final, Qsf	Average	Volume, m ³	ug/m ³		
04-Jan-23	8:00	Fine	1023.4	1023.4	17.4	18.5	AM1a_24hr_011128	2.7673	2.8960	16355.88	16379.88	24.00	1.21	1.20	1.21	1736	74		
10-Jan-23	8:00	Cloudy	1019.5	1018.8	19.7	18.2	AM1a_24hr_011130	2.7602	2.8036	16403.88	16427.88	24.00	1.25	1.27	1.26	1812	24	G3101	0401-1105
16-Jan-23	8:00	Fine	1021.6	1023.6	12.3	13.2	AM1a_24hr_011132	2.7875	2.8615	16427.88	16451.88	24.00	1.21	1.23	1.22	1762	42	03101	0401-1103
20-Jan-23	8:00	Fine	1021.4	1019.5	17.6	16.9	AM1a_24hr_011134	2.7594	2.8626	16451.88	16475.88	24.00	1.25	1.25	1.25	1800	57		
26-Jan-23	8:00	Fine	1019.3	1022.5	15.7	15.4	AM1a_24hr_011136	2.7758	2.9176	16475.88	16499.88	24.00	1.50	1.50	1.50	2161	66		

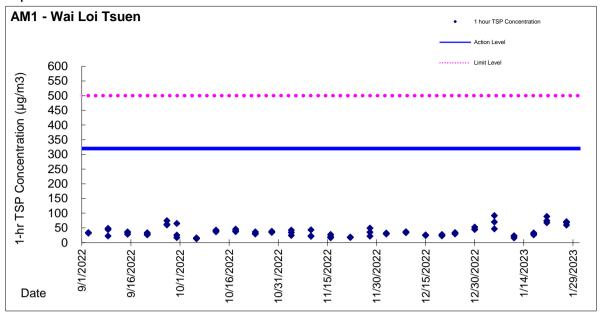


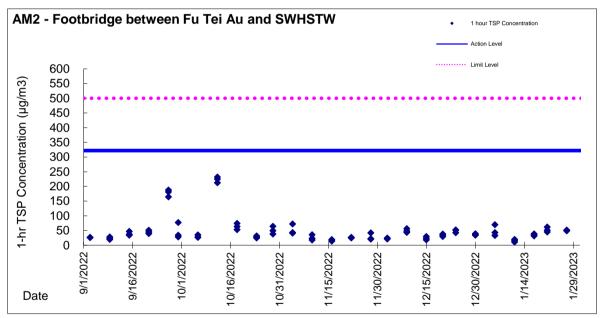
Location: AM2a - Site Boundary of the Shek Wu Hui STW (North) Impact Monitoring Result on 24-hour TSP monitoring

Date	Sampling	Weather	Pressu	re, hPa	Temp	o., °C	Filter paper no.	paper no. Filter Weight, g E		Elapse Time, hr		Sampling Flow Rate, m³/min			Total	TSP Level,	Model No.	Serial No.	
	Time	Condition	Initial	Final	Initial	Final		Initial	Final	Initial	Final	Time, hr	Initial, Qsi	Final, Qsf	Average	Volume, m ³	ug/m ³		
04-Jan-23	8:00	Fine	1023.4	1023.4	17.4	18.5	AM2a_24hr_011129	2.7599	2.8972	18993.92	19017.92	24.00	1.27	1.24	1.26	1810	76		
10-Jan-23	8:00	Cloudy	1019.5	1018.8	19.7	18.2	AM2a_24hr_011131	2.7917	2.8374	19017.92	19041.92	24.00	1.54	1.54	1.54	2223	21	G3101	1096-2305
16-Jan-23	8:00	Fine	1021.6	1023.6	12.3	13.2	AM2a_24hr_011133	2.7692	2.8651	19041.92	19065.92	24.00	1.51	1.51	1.51	2172	44	03101	1030-2303
20-Jan-23	8:00	Fine	1021.4	1019.5	17.6	16.9	AM2a_24hr_011135	2.7703	2.9085	19065.92	19089.92	24.00	1.50	1.50	1.50	2161	64		
26-Jan-23	8:00	Fine	1019.3	1022.5	15.7	15.4	AM2a_24hr_011112	2.7691	2.9084	19089.92	19113.92	24.00	1.50	1.50	1.50	2165	64		



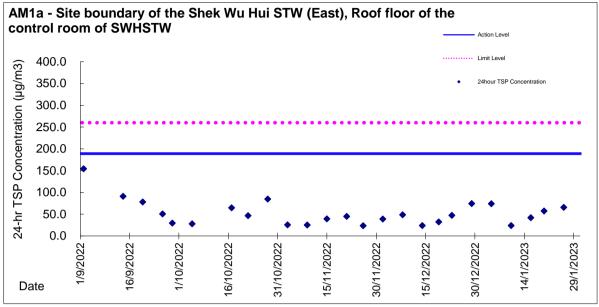
Graphic Presentation of TSP Result

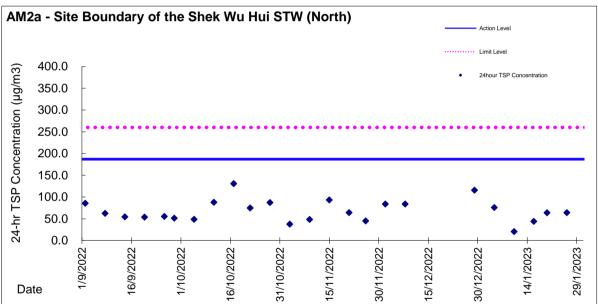






Graphic Presentation of TSP Result





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
	Chinese Pond	Sel 196	Х	18	++
Ardeola bacchus	Heron	池鷺			
Bubulcus	Eastern Cattle		×	20	+++
coromandus	Egret	牛背鷺			
Ardea cinerea	Grey Heron	蒼鷺	Х	46	++++
Ardea alba	Great Egret	大白鷺	Х	21	++
Egretta garzetta	Little Egret	小白鷺	Х	59	++++
Phalacrocorax			Х	17	+++
carbo	Great Cormorant	普通鸕鷀	^		
Milvus migrans	Black Kite	黑鳶	Х	4	+
Himantopus			Х	17	+++
himantopus	Black-winged Stilt	黑翅長腳鷸	, A	.,	
	Common		Х	10	++
Actitis hypoleucos	Sandpiper	機鷸	^		
Spilopelia chinensis	Spotted Dove	珠頸斑鳩		27	++++
Apus pacificus	Pacific Swift	白腰雨燕		0	+
	White-throated		Х	5	+
Halcyon smyrnensis	Kingfisher	白胸翡翠	^	3	*
	Common		X	2	+
Alcedo atthis	Kingfisher	普通翠鳥	,	_	·
Ceryle rudis	Pied Kingfisher	斑魚狗	X	1	+
Lanius schach	Long-tailed Shrike	棕背伯勞		1	+
Dicrurus			Х	1	+
macrocercus	Black Drongo	黑卷尾			·
Urocissa	Red-billed Blue		Х	4	+
erythroryncha	Magpie	紅嘴藍鵲			

Scientific Names	Common Names	Chinese Names	Waterbird	Point Count Abundance	Transect Count Abundance
Pica pica	Eurasian Magpie	喜鵲		0	+
Parus cinereus	Cinereous Tit	蒼背山雀		6	+
	Red-whiskered				
Pycnonotus jocosus	Bulbul	紅耳鵯		82	+++++
Pycnonotus				27	++++
sinensis	Chinese Bulbul	白頭鵯		21	7777
Hirundo rustica	Barn Swallow	家燕		2	+
Phylloscopus				2	+
fuscatus	Dusky Warbler	褐柳鶯		۷	'
Phylloscopus	Pallas's Leaf			2	+
proregulus	Warbler	黄腰柳鶯		_	
Phylloscopus	Yellow-browed			17	+++
inornatus	Warbler	黄眉柳鶯			
	Yellow-bellied			1	+
Prinia flaviventris	Prinia	黃腹鷦鶯			
Prinia inornata	Plain Prinia	純色鷦鶯		7	+
	Common			23	+++
Orthotomus sutorius	Tailorbird	長尾縫葉鶯		20	
Garrulax	Masked			22	+++++
perspicillatus	Laughingthrush	黑臉噪鶥			
	Japanese White-			21	+++
Zosterops japonicus	eye	暗綠繡眼鳥			
Acridotheres				203	++++
cristatellus	Crested Myna	八哥			
	Black-collared			49	++++
Gracupica nigricollis	Starling	黑領椋鳥			
	Oriental Magpie			8	+
Copsychus saularis	Robin	鵲鴝			

Scientific Names	Common Names	Chinese Names	Waterbird	Point Count Abundance	Transect Count Abundance
Dhaaniaumus				Abundance	Abundance
Phoenicurus				5	+
auroreus	Daurian Redstart	北紅尾鴝			
	Siberian				
Calliope calliope	Rubythroat	紅喉歌鴝		1	+
	Eurasian Tree			•	
Passer montanus	Sparrow	樹麻雀		9	+++
Lonchura	Scaly-breasted				
punctulata	Munia	斑文鳥		3	+
Motacilla	Eastern Yellow			4	
tschutschensis	Wagtail	東黃鶺鴒		1	+
Motacilla alba	White Wagtail	白鶺鴒		32	++++
Anthus godlewskii	Olive-backed Pipit	樹鷚		1	+

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

	Tot	tal Bird Abu	ındance fro	m Point Coւ	unt	
	Survey In	formation		Total Bird /	Abundance Count	from Point
No.	Date	Time	Tide Level	Individuals Recorded	Total	Species Recorded
1	6/1/2023	11:00	Н	95	269	21
•	0/1/2023	15:00	L	174	209	29
2	12/1/2023	13:00	Н	73	151	23
2	12/1/2023	10:45	L	78	151	22
2	46/4/2022	14:15	Н	69	151	19
3	16/1/2023	11:30	L	85	154	19
4	26/4/2022	13:00	Н	59	202	18
4	26/1/2023	10:30	L	144	203	24

Remarks: H: High Tide; L: Low Tide

	Total	Waterbird A	Abundance	from Point Count							
	Survey In	formation		Total Waterbird Abundance from							
				Point Count							
No.	Date	Time	Tide Level	Individuals	Total						
140.	Date	Tillie	Tide Level	Recorded	Iotai						
1	6/1/2023	11:00	Н	19	48						
•	0/1/2023	15:00	L	29	40						
2	12/1/2023	13:00	Н	23	51						
2	12/1/2023	10:45	L	28	31						
3	16/1/2023	14:15	Н	18	60						
3	10/1/2023	11:30	L	42	00						
4	26/1/2023	13:00	Н	10	61						
4	20/1/2023	10:30	L	51	O I						

Remarks: H: High Tide; L: Low Tide

T-Test Analysis for All Waterbirds

Baseline Data

Monthly Average Abundance (December) 65.75 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:

H₀: The data collected in the reporting month falls within the normal distribution when compared to the baseline monitoring data;

H₁: 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 = -2.353 (95% Confidence Level)

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

T values of Da	to in Bonorting I	Month	Confidence Leve	el (Critical Value)
1-values of Da	ta in Reporting I	VIOTILIT	95% (-2.353)	99% (-4.541)
Abundanaa	Monthly	-0.852	✓	✓
Abundance	Seasonal	-0.567	✓	✓

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	Representa	ative Waterbi	rds from Poi	nt Count				
Representative Species				Recorded	Abundance				Basel	ine Data
			Week 1		_	Avg (Jan)	Avg (Winter)			
Species Name	Common Name	Chinese Name	6/1/2023	12/1/2023	16/1/2023	26/1/2023	Total	Avg.		
Egretta garzetta	Little Egret	小白鷺	11	13	22	13	59	15	13	15
Ardea cinerea	Grey Heron	蒼鷺	8	7	10	21	46	12	18	13
Ardeola bacchus	Chinese Pond Heron	池鷺	5	4	3	6	18	5	8	9
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	2	9	1	5	17	4	7	7
Ardea alba	Great Egret	大白鷺	5	8	1	7	21	5	5	5
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	2	3	14	1	20	5	3	4

<u>T-test Analysis for Representative Waterbirds from Point Count</u>

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

H₀: The data collected in the reporting month falls within the normal distribution when compared to the baseline monitoring data;

H₁: 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 H₀.

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

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

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

Common Name of	T-value	Confidence Leve	el (Critical Value)	T-value	Confidence Leve		
Representative Waterbird	Monthly	95%	99%	Seasonal	95%	99%	Overall
Little Egret	0.446	✓	✓	-0.064	✓	✓	✓
Grey Heron	-1.711	✓	✓	-0.395	✓	✓	√
Chinese Pond Heron	-3.041	Х	✓	-3.909	Х	✓	√
Great Cormorant	-1.508	✓	✓	-1.508	✓	✓	✓
Great Egret	0.140	✓	✓	0.140	✓	✓	√
Eastern Cattle Egret	0.702	✓	✓	0.351	√	✓	✓

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 6 Jan 2023)



Shek Sheung River - Survey Point 5 (Taken on 12 Jan 2023)



Shek Sheung River – Survey Point 6 (Taken on 16 Jan 2023)



Ng Tung River - Survey Point 4 (Taken on 6 Jan 2023)

Human Activities & Site Conditions



Construction Activities (Ng Tung River)
(Project-related, taken on 6 Jan 2023)



Construction Activities (Sheung Yue River)
(Non-project-related, taken on 26 Jan 2023)



Construction Activities (Shek Sheung River)
(Project-related, taken on 26 Jan 2023)



Construction Activities (Ng Tung River)
(Non-Project-related, taken on 16 Jan 2023)







Human Activities (Sheung Yue River)
(Non-project-related, taken on 12 Jan 2023)

Human Activities (Ng Tung River)
(Non-project-related, taken on 6 Jan 2023)

Human Activities (Ng Tung River)
(Non-project-related, taken on 16 Jan 2023)





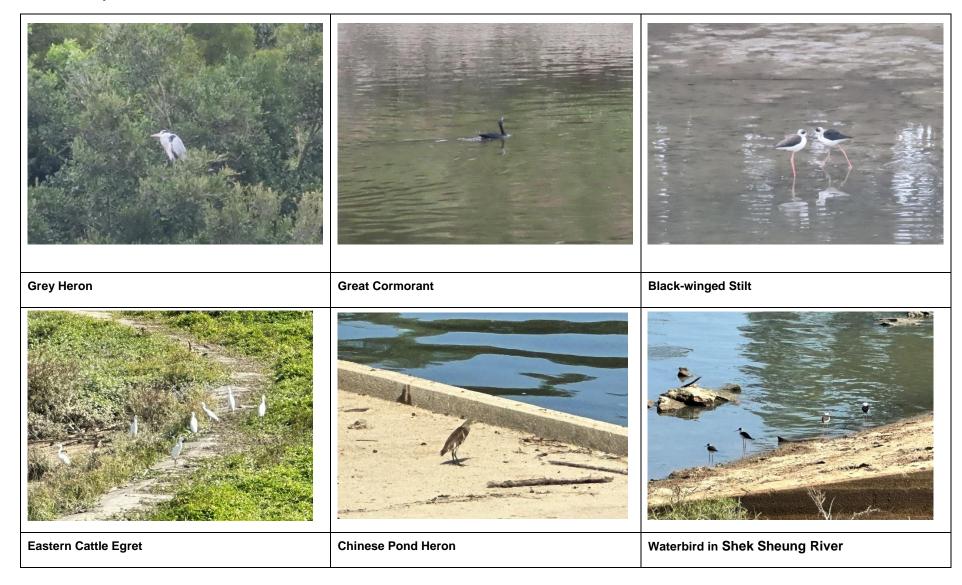


Construction Activities (Ng Tung River)
(Non-Project-related, taken on 16 Jan 2023)

Construction Activities (Sheung Yue River)
(Non-project-related, taken on 12 Jan 2023)

Construction Activities (Ng Tung River)
(Non-Project-related, taken on 6 Jan 2023)

Waterbird Species



Appendix 5.7

Water Quality Monitoring Result



Date of Sampling:	4-Jan-23	Weather Condition:	Fine	Ambient Temperature.°C:	17	

	Sample ID Time			Appearanc	Temp	erature	р	Н	Sa	linity	DO Sa	turation	D	0	DO Average	Turb	idity	Furb Average	SS	SS Aaverage	Remarks / Observations
Station Reference			Sampling Depth	е	°C		-		р	ppt		%		mg/L		1		U		ng/L	
M1	M1	9:32	Middle	Pale Yellow	22.2	22.2	7.16	7.16	0.19	0.19	92.0	92.5	8.37	8.43	8.44	8.47	8.49	<u>8.10</u>	6.2		Turbidity and SS levels exceeded
Impact Station, Downstream of the proposed outfall	M1 DUP	9:35	Middle	rale fellow	22.2	22.2	7.16	7.16	0.19	0.19	93.0	93.1	8.48	8.49	0.44	8.67	6.75	0.10	6.5		limit levels
C1	C1	9:05	MC LIII.	D.I. V.II	20.0	20.0	7.19	7.19	0.12	0.12	91.8	91.9	8.34	8.35	0.00	4.52	4.46	4.44	4.3	1.10	
Control Station, Upstream of the proposed outfall	C1 DUP	9:07	Middle	Pale Yellow	20.0	20.0	7.19	7.19	0.12	0.12	91.8	91.2	8.33	8.28	8.33	4.39	4.39	4.44	3.9	4.10	

Action Level Exceedance Limit Level Exceedance

Date of Sampling: 6-Jan-23 Weather Condition: Fine Ambient Temperature, °C: 19

Station Reference	Sample ID	Time	Sampling Depth	Appearanc e		erature C	p	Н .		inity pt		turation %	D	O mg/	DO Average L	Turk	oidity NT	Furb Average U		SS Aaverag	Remarks / Observations
M1	M1	10:30	Middle	Pale Green	22.4	22.4	7.10	7.10	0.70	0.70	93.1	93.5	8.50	8.55	8.55	8.00	8.00	<u>8.00</u>	5.8		Turbidity and SS levels exceeded
Impact Station, Downstream of the proposed outfall	M1 DUP	10:32	Middle	rale Gleen	22.4	22.4	7.10	7.10	0.70	0.70	93.8	93.7	8.58	8.58	6.55	8.00	8.00	6.00	5.7		limit levels
C1	C1	10:00	Middle	Pale Green	20.1	20.1	7.15	7.15	0.12	0.12	90.1	91.0	8.18	8.25	8.47	4.27	4.27	4.27	4.9	4.70	
Control Station, Upstream of the proposed outfall	C1 DUP	10:02	ivildule	r ale Gleen	20.1	20.1	7.15	7.15	0.12	0.11	90.9	90.3	8.25	9.19	0.47	4.27	4.27	4.21	4.5	4.70	

Action Level Exceedance Limit Level Exceedance

Date of Sampling: 9-Jan-23 Weather Condition: Fine Ambient Temperature, °C: 20

Station Reference	Sample ID	Time	Sampling Depth	Appearanc e		erature C	p	H -	Sal p	inity pt		turation %	D	O mg/	DO Average 'L	Turb	oidity NT	Furb Average U		SS Aaveragi	Remarks / Observations
M1	M1	12:30	Middle	Pale Green	20.7	20.7	7.15	7.15	0.22	0.22	69.9	69.9	6.25	6.26	6.24	13.99	13.99	13.99	20.0	20.25	DO and SS levels exceeded limit
Impact Station, Downstream of the proposed outfall	M1 DUP	12:34	ivildale	Fale Gleen	20.7	20.7	7.15	7.15	0.22	0.22	69.7	69.4	6.24	6.21	<u>6.24</u>	14.00	14.0.5	13.99	20.5	20.25	levels
C1	C1	12:00	Middle	Pale Green	19.3	19.3	7.24	7.24	0.13	0.13	62.6	60.1	5.75	5.52	5.53	14.62	14.42	14.54	11.2	11.35	
Control Station, Upstream of the proposed outfall	C1 DUP	12:02	ivildale	Pale Green	19.3	19.3	7.24	7.24	0.13	0.13	59.2	59.0	5.43	5.42	5.53	14.50	14.60	14.54	11.5	11.35	



10:48

10:50

C1

C1 DUP

Date of Sampling:	11-Jan-23	٠	Weather Condition:		Clo	udy	_	Ambient	Tempera	ature, °C:	1	17	•								
Station Reference	Sample ID	Time	Cline Donath	Appearanc	Tempe	erature	р	Н	Sal	inity	DO Sa	turation	D	0	DO Average	Turb	idity	Furb Average	SS	SS Aaverag	Remarks / Observations
Station Reference			Sampling Depth	е		С		-	р	pt		%		mg/	L		NT	U		ng/L	
M1	M1	10:30	Middle	Pale Green	18.9	18.9	7.27	7.27	0.13	0.13	49.6	50.0	4.61	4.65	4.64	31.77	31.79	<u>32.12</u>	39.4	39.70	DO, turbidity and SS levels
Impact Station,	M1 DUP	10:32	Wilddle	r ale Green	18.9	18.9	27.70	7.27	0.13	0.13	50.1	49.7	4.66	4.65	4.04	32.06	32.84		40.0		exceeded limit levels

7.34

7.34

0.13

0.13

0.13

0.13

66.7

66.8

66.0

67.1

6.22 6.16

6.23

6.26

42.72 42.71

42.67 42.66

6.22

42.6

43.2

42.90

42.69

Action Level Exceedance Limit Level Exceedance

C1

Control Station,

Upstream of the proposed outfall

Date of Sampling: 13-Jan-23 Weather Condition: Cloudy Ambient Temperature, °C: 24

Middle

18.7

18.7

Pale Green

18.7

18.7

7.34

7.34

Station Reference	Sample ID	Time	Sampling Depth	Appearanc e		erature °C	р	H -		inity		turation %	D	O mg/	DO Average	Turt	oidity NT	Furb Average U		SS Aaverag	Remarks / Observations
M1	M1	12:05			21.8	21.8	7.16	7.16	0.14	0.14	56.1	56.4	4.92	4.95		35.65	35.49		43.7		DO, turbidity and SS levels
Impact Station, Downstream of the proposed outfall	M1 DUP	12:07	Middle	Pale Green	21.8	21.8	7.16	7.16	0.14	0.14	56.2	55.7	4.93	4.88	4.92	35.43	35.28	35.46	43.9	43.80	exceeded limit levels
C1	C1	11:45	Middle	Pale Green	22.0	22.0	7.18	7.18	0.14	0.14	64.7	64.7	5.64	5.64	5.67	28.02	28.07	28.20	42.3	42.50	
Control Station, Upstream of the proposed outfall	C1 DUP	11:47	Middle	Pale Green	22.0	22.0	7.18	7.18	0.14	0.14	65.4	65.3	5.70	5.69	5.67	28.47	28.25	28.20	42.7	42.50	

Action Level Exceedance Limit Level Exceedance

Date of Sampling: 16-Jan-23 Weather Condition: Fine Ambient Temperature, °C: 11

Station Reference	Sample ID	Time	Sampling Depth	Appearanc e		erature C	p	H -	Sal p	nity pt		turation %	D	O mg/	DO Average 'L	Turb	idity NTI	Гurb Average J		SS Aaverage	Remarks / Observations
M1	M1	11:55	M. I. II.	Data Carre	12.7	12.7	7.45	7.45	0.13	0.13	74.4	74.6	7.88	7.91	7.00	8.61	8.56	0.50	6.1	5.05	
Impact Station, Downstream of the proposed outfall	M1 DUP	11:57	Middle	Pale Green	12.7	12.7	7.45	7.45	0.13	0.13	74.7	74.6	7.92	7.90	7.90	8.55	8.59	8.58	5.8	5.95	
C1	C1	11:40	Middle	Pale Green	13.3	13.3	7.41	7.41	0.13	0.13	83.6	82.8	8.73	8.65	8.64	10.12	10.00	9.97	7.9	8.15	
Control Station, Upstream of the proposed outfall	C1 DUP	11:42	Middle	Fale Gleen	13.3	13.3	7.41	7.41	0.13	0.13	82.3	82.0	8.60	8.56	0.04	9.89	9.88	9.97	8.4	6.15	



Date of Sampling:	18-Jan-23	١	Weather Condition:		Fi	ne		Ambient	Tempera	ature,°C:		9	-								
Station Reference	Sample ID	Time	Sampling Depth	Appearanc		erature	р	Н	Sal	inity	DO Sa	turation	D	0	DO Average	Turb	idity	Furb Average	SS	SS Aaverage	Remarks / Observations
Station Reference			Sampling Depth	е	0	С		-	р	pt	C	%		mg/	/L		NT	U		mg/L	
M1	M1	8:00	Middle	Pale Green	11.5	11.5	7.79	7.79	0.40	0.40	67.6	67.1	7.36	7.30	7.29	7.72	7.71	7.71	12.9		DO and SS levels exceeded limit
Impact Station, Downstream of the proposed outfall	M1 DUP	8:05	ivildale	Fale Gleen	11.5	11.5	7.79	7.79	0.40	0.40	67.0	66.1	7.29	7.19	1.29	7.71	7.71	7.71	13.3		levels
C1	C1	8:40	Middle	Pale Green	15.3	15.3	7.50	7.50	0.15	0.15	75.4	75.2	7.56	7.54	7.49	8.48	8.46	8.45	2.6	2.70	
Control Station,	C1 DUP	8:42	ivildale	rale Green	15.3	15.3	7.50	7.50	0.15	0.15	74.3	73.7	7.46	7.40	7.49	8.41	8.46	0.45	2.8	2.70	

Action Level Exceedance Limit Level Exceedance

Upstream of the proposed outfall

Ambient Temperature, °C: 15 Fine Date of Sampling: 20-Jan-23 Weather Condition:

Station Reference	Sample ID	Time	Sampling Depth	Appearanc e		erature °C	p	H -		inity pt		turation %	D	O mg/	DO Average	Turk	oidity NT	Furb Average U		SS Aaverag	Remarks / Observations
M1	M1	11:20	Middle	Dala Valla	19.7	19.7	6.96	6.96	0.25	0.25	72.3	71.7	6.60	6.55	0.57	7.57	7.57	7.50	10.7		DO and SS levels
Impact Station, Downstream of the proposed outfall	M1 DUP	11:22	Middle	Pale Yellow	19.7	19.7	6.96	6.96	0.25	0.25	71.7	71.3	6.54	6.57	<u>6.57</u>	7.58	7.60	7.58	10.4		exceeded limit levels
C1	C1	11:00	NA: July	Pale Yellow	17.1	17.1	7.29	7.29	0.19	0.19	70.1	69.9	6.75	6.73		14.80	14.79	44.75	6.0	6.40	
Control Station, Upstream of the proposed outfall	C1 DUP	11:02	Middle	Pale Yellow	17.1	17.1	7.29	7.29	0.19	0.19	69.3	68.8	6.67	6.63	6.70	14.72	14.70	14.75	6.2	6.10	

Action Level Exceedance Limit Level Exceedance

Date of Sampling: 27-Jan-23 Weather Condition: Fine Ambient Temperature, °C: 15

Station Reference	Sample ID	Time	Sampling Depth	Appearanc e		erature C	p	H -	Sal p	nity pt		turation %	D	O mg/	DO Average L	Turb	oidity NT	Γurb Average U		SS Aaverage	Remarks / Observations
M1	M1	11:00	M. 1 II.	Pale Yellow	17.5	17.5	7.04	7.04	0.32	0.32	77.2	76.9	7.05	7.02		8.93	8.82	0.00	9.8	40.00	DO and SS levels
Impact Station, Downstream of the proposed outfall	M1 DUP	11:02	Middle	Pale Yellow	17.5	17.5	7.04	7.04	0.32	0.32	75.3	74.4	6.83	6.79	6.92	8.92	8.84	8.88	10.2	<u>10.00</u>	exceeded limit levels
C1	C1	10:50	Middle	Pale Yellow	172.0	17.2	7.16	7.16	0.15	0.15	67.8	67.7	6.52	6.50	6.52	12.48	12.49	12.50	7.3	7.20	
Control Station, Upstream of the proposed outfall	C1 DUP	10:52	Middle	rale fellow	17.2	17.2	7.16	7.16	0.15	0.15	67.9	67.9	6.52	6.53	0.52	12.50	12.51	12.50	7.1	7.20	

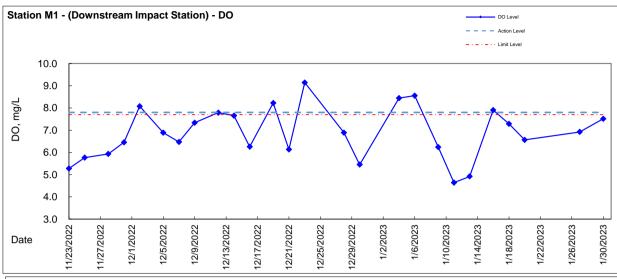


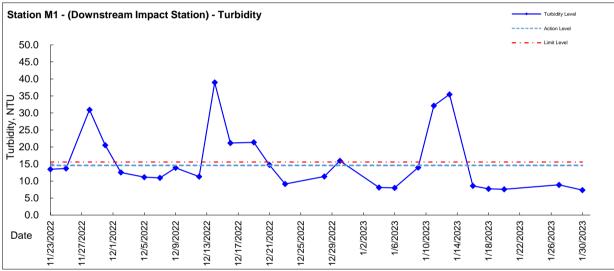
Date of Sampling:	30-Jan-23	Weather Condition:	Fine	Ambient Temperature.°C:	15	

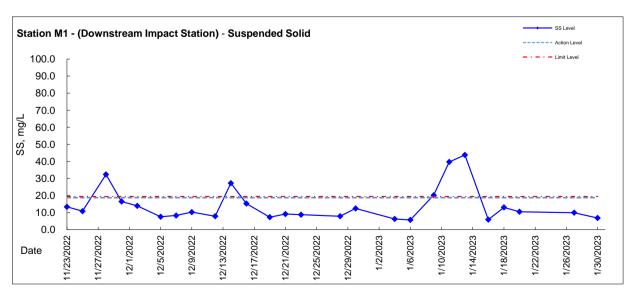
Station Reference	Sample ID	Time	Sampling Depth	Appearanc e		erature C	p	H -		nity pt		turation %	D	O mg/	DO Average	Turk	oidity NT	Furb Average U		SS Aaverage	Remarks / Observations
M1	M1	10:00	Middle	Pale green	17.0	17.0	7.25	7.25	0.19	0.19	84.6	84.9	7.56	7.56	<u>7.52</u>	7.08	7.08	7.33	6.7		DO level exceeded limit
Impact Station, Downstream of the proposed outfall	M1 DUP	10:02	ivildale	Fale green	17.0	17.0	7.25	7.25	0.19	0.19	83.9	83.6	7.48	7.46	1.52	7.58	7.58	7.55	7.1		level
C1	C1	10:30	Middle	Pale green	16.8	16.8	7.30	7.30	0.12	0.12	91.6	91.0	8.41	8.36	8.37	11.45	11.61	11.54	5.9	6.05	
Control Station, Upstream of the proposed outfall	C1 DUP	10:32	wiiddle	r ale green	16.8	16.8	7.30	7.30	0.12	0.12	91.1	90.8	8.36	8.33	0.37	11.60	11.48	11.54	6.2	0.05	



Graphic Presentation of WQM Result

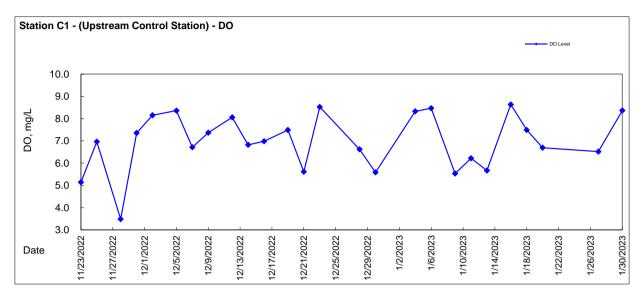


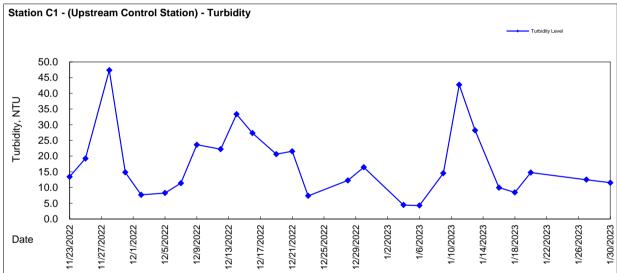


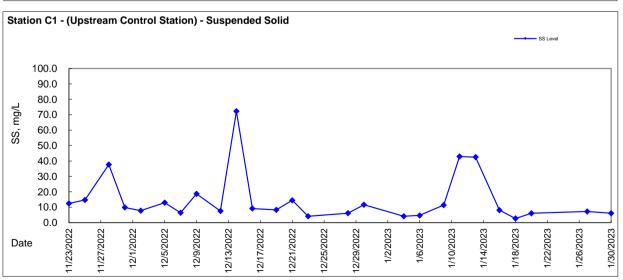




Graphic Presentation of WQM Result







Appendix 5.8

Laboratory Analysis Result

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

: LAM ENVIRONMENTAL SERVICES LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 4 Client Laboratory

: ALEX CHAN : HK2300790 Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG

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 : richard.fung@alsglobal.com

: 2839 5629 : +852 2610 1044 Telephone Telephone Facsimile : 2882 3331 : +852 2610 2021 Facsimile

: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 05-Jan-2023 : HKE/2224/2021_V3 : 13-Jan-2023 Order number : -

number C-O-C number : -: 4

No. of samples received No. of samples analysed Site

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the testing laboratory. Signatories

> Fung Lim Chee, Richard Managing Director Inorganics, Kwai Tsing

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

11/F., Chung Shun Knitting Centre, 1-3 Wing Ylp Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsglobal.com

Page Number 2 of 4

Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

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.

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: HK2300790

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.



Page Number 3 of 4

Client Work Order : LAM ENVIRONMENTAL SERVICES LTD

HK2300790

Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	_
		Samplir	ng date / time	04-Jan-2023	04-Jan-2023	04-Jan-2023	04-Jan-2023	
Compound	CAS Number	LOR	Unit	HK2300790-001	HK2300790-002	HK2300790-003	HK2300790-004	
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)		2.0	mg/L	4.3	3.9	6.2	6.5	



Page Number Client Work Order

: 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2300790

Laboratory Duplicate (DUP) Report

Matrix: WATER					Labora	atory Duplicate (DUP)	Report	
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)
sample ID							Result	
EA/ED: Physical and Aggr	egate Properties (QC Lot: 480813	33)						
HK2300790-001	C1	EA025: Suspended Solids (SS)		0.5	mg/L	4.3	4.0	8.5
HK2301283-003	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	20.0	19.8	1.0

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

Matrix: WATER			Method Blank (MB) Report		Laboratory Contro	ol Splice (LCS) and Labors	ntory Control S	plke Duplicate ((DCS) Report	
					Splike Concentration	Splice Red	covery (%)	Recove	ry Limits(%)	RP	D(%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EA/ED: Physical and Aggregate Properties (QC	C Lot: 4808133)										
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

: LAM ENVIRONMENTAL SERVICES LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 4 Client Laboratory : ALEX CHAN : HK2301282

Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG 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 : richard.fung@alsglobal.com : 2839 5629 : +852 2610 1044

Telephone Telephone Facsimile : 2882 3331 : +852 2610 2021 Facsimile

: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 09-Jan-2023 : HKE/2224/2021_V3 : 13-Jan-2023 Order number : -

number C-O-C number : -No. of samples received : 4

No. of samples analysed Site

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the testing laboratory. Signatories

> Fung Lim Chee, Richard Managing Director Inorganics, Kwai Tsing

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

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Page Number 2 of 4

Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

General Comments

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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: HK2301282

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.



Page Number 3 of 4

Client Work Order : LAM ENVIRONMENTAL SERVICES LTD

HK2301282



Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	_
		Sampling date / time		06-Jan-2023	06-Jan-2023	06-Jan-2023	06-Jan-2023	
Compound	CAS Number	LOR	Unit	HK2301282-001	HK2301282-002	HK2301282-003	HK2301282-004	
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)		2.0	mg/L	4.9	4.5	5.8	5.7	

Page Number Client Work Order

: 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2301282

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggre	egate Properties (QC Lot: 480813	33)									
HK2300790-001	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	4.3	4.0	8.5			
HK2301283-003	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	20.0	19.8	1.0			

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

Matrix: WATER			Method Blank (MB) Report		Laboratory Contro	ol Splice (LCS) and Labors	ntory Control S	plke Duplicate ((DCS) Report	
						Splike 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	C Lot: 4808133)										
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

: LAM ENVIRONMENTAL SERVICES LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 4 Client Laboratory : ALEX CHAN : HK2301283

Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG 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 : richard.fung@alsglobal.com : 2839 5629 : +852 2610 1044 Telephone Telephone Facsimile : 2882 3331 : +852 2610 2021 Facsimile

: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 09-Jan-2023

: HKE/2224/2021_V3 : 13-Jan-2023 Order number : number

C-O-C number : -No. of samples received : 4 No. of samples analysed Site

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the testing laboratory. Signatories

> Fung Lim Chee, Richard Managing Director Inorganics, Kwai Tsing

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Page Number 2 of 4

Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

General Comments

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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: HK2301283

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.

Page Number 3 of 4

Client Work Order : LAM ENVIRONMENTAL SERVICES LTD

HK2301283



Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	_
		Samplir	g date / time	09-Jan-2023	09-Jan-2023	09-Jan-2023	09-Jan-2023	
Compound	CAS Number	LOR	Unit	HK2301283-001	HK2301283-002	HK2301283-003	HK2301283-004	
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)		2.0	mg/L	11.2	11.5	20.0	20.5	

Page Number Client Work Order

: 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2301283

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggr	egate Properties (QC Lot: 48081)	33)									
HK2300790-001	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	4.3	4.0	8.5			
HK2301283-003	M1	EA025: Suspended Solids (SS)		0.5	mg/L	20.0	19.8	1.0			

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

Matrix: WATER			Method Blank (ME	l) Report		Laboratory Contro	ol Splike (LCS) and Labora	ntory Control S	plike Duplicate (DCS) Report	
						Splike Recovery (%)		Recovery Limits(%)		<i>RPD</i> (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
EA/ED: Physical and Aggregate Properties (QC Lo	t: 4808133)										
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

: LAM ENVIRONMENTAL SERVICES LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 4 Client Laboratory : ALEX CHAN

: HK2301285 Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing

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: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 11-Jan-2023 : HKE/2224/2021_V3 : 20-Jan-2023 Order number : -

number C-O-C number : -No. of samples received : 4

No. of samples analysed Site

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Signatories

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Page Number 2 of 4

Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

General Comments

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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: HK2301285

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.

Page Number 3 of 4

Client Work Order : LAM ENVIRONMENTAL SERVICES LTD

HK2301285



Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	_
		Samplii	ng date / time	11-Jan-2023 11-Jan-2023		11-Jan-2023	11-Jan-2023	
Compound	CAS Number	LOR	Unit	HK2301285-001	HK2301285-002	HK2301285-003	HK2301285-004	
EA/ED: Physical and Aggregate Properties)							
EA025: Suspended Solids (SS)		2.0	mg/L	42.6	43.2	39.4	40.0	



Page Number Client Work Order : 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2301285

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggre	egate Properties (QC Lot: 48224	37)									
HK2301285-001	C1	EA025: Suspended Solids (SS)		0.5	mg/L	42.6	43.0	0.9			
HK2301287-003	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	6.1	6.4	4.0			

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

Matrix: WATER			Method Blank (ME	l) Report	Laboratory Control Splice (LCS) and Laboratory Control Splice Duplicate (DCS) Report								
						Splike 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: 4822467)												
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

: LAM ENVIRONMENTAL SERVICES LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 4 Client Laboratory

: ALEX CHAN : HK2301286 Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG

Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong

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: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 13-Jan-2023

: HKE/2224/2021_V3 : 20-Jan-2023 Order number : number

C-O-C number : -No. of samples received : 4 No. of samples analysed Site

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Signatories

Fung Lim Chee, Richard Managing Director Inorganics, Kwai Tsing

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

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Page Number 2 of 4

E-mail

Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

General Comments

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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: HK2301286

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.



Page Number 3 of 4

Client Work Order : LAM ENVIRONMENTAL SERVICES LTD

HK2301286



Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	_
		Samplir	ng date / time	13-Jan-2023	13-Jan-2023	13-Jan-2023	13-Jan-2023	
Compound	CAS Number	LOR	Unit	HK2301286-001	HK2301286-002	HK2301286-003	HK2301286-004	
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)		2.0	mg/L	42.3	42.7	43.7	43.9	



Page Number Client Work Order : 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2301286

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggre	egate Properties (QC Lot: 482246	37)									
HK2301285-001	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	42.6	43.0	0.9			
HK2301287-003	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	6.1	6.4	4.0			

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

Matrix: WATER			Method Blank (ME	l) Report		Laboratory Contro	ol Splike (LCS) and Labora	tory Control S	plike Duplicate (DCS) Report	
			122			Splike 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: 4822467)										
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

: LAM ENVIRONMENTAL SERVICES LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 4 Client Laboratory : ALEX CHAN : HK2301287

Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing

Yip Street, Kwai Chung, N.T., Hong Kong

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: 2839 5629 : +852 2610 1044 Telephone Telephone Facsimile : 2882 3331 : +852 2610 2021 Facsimile

: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 16-Jan-2023 : HKE/2224/2021_V3 : 20-Jan-2023 Order number : -

number : 4

C-O-C number : -No. of samples received No. of samples analysed Site

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the testing laboratory. Signatories

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Page Number 2 of 4

Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

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

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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: HK2301287

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.



Page Number 3 of 4

Client Work Order : LAM ENVIRONMENTAL SERVICES LTD

HK2301287



Analytical Results

Sub-Matrix: FRESH WATER	Sample ID			C1	C1 - DUP	M1	M1 - DUP	_	
		Samplir	ng date / time	16-Jan-2023	16-Jan-2023	16-Jan-2023	16-Jan-2023		
Compound	CAS Number	LOR	Unit	HK2301287-001	HK2301287-002	HK2301287-003	HK2301287-004		
EA/ED: Physical and Aggregate Properties									
EA025: Suspended Solids (SS)		2.0	mg/L	7.9	8.4	6.1	5.8		

Page Number Client Work Order : 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2301287

Laboratory Duplicate (DUP) Report

Matrix: WATER					Laboratory Duplicate (DUP) Report						
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggregate Properties (QC Lot: 4822467)											
HK2301285-001	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	42.6	43.0	0.9			
HK2301287-003	M1	EA025: Suspended Solids (SS)		0.5	mg/L	6.1	6.4	4.0			

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

Matrix: WATER		Method Blank (MB) Report			Leboratory Control Spike (LCS) and Laboratory Control Spike Dupilicate (DCS) Report							
					Splice Concentration	Splike Recovery (%)		Recovery Limits(%)		<i>RPD</i> (%)		
Method: Compound	CAS Number	LOR	Unit	Result]	LCS	DCS	Low	High	Value	Control	
											Limit	
EA/ED: Physical and Aggregate Properties (QC Lot: 4822467)												
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

: LAM ENVIRONMENTAL SERVICES LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 4 Client Laboratory

: ALEX CHAN : HK2301288 Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG

Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong

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E-mail : alexchan@lamenviro.com : richard.fung@alsglobal.com

: 2839 5629 : +852 2610 1044 Telephone Telephone Facsimile : 2882 3331 : +852 2610 2021 Facsimile

: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 18-Jan-2023 : HKE/2224/2021_V3 : 30-Jan-2023 Order number : -

number

C-O-C number : -No. of samples received : 4 No. of samples analysed Site

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the testing laboratory. Signatories

> Fung Lim Chee, Richard Managing Director Inorganics, Kwai Tsing

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

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Page Number 2 of 4

Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

General Comments

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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: HK2301288

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.

Page Number 3 of 4

Client Work Order : LAM ENVIRONMENTAL SERVICES LTD

HK2301288



Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	_
		Samplir	ng date / time	18-Jan-2023	18-Jan-2023	18-Jan-2023	18-Jan-2023	
Compound	CAS Number	LOR	Unit	HK2301288-001	HK2301288-002	HK2301288-003	HK2301288-004	
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)		2.0	mg/L	2.6	2.8	12.9	13.3	_

Page Number Client Work Order

: 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2301288

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggre	egate Properties (QC Lot: 483718	34)									
HK2301288-001	C1	EA025: Suspended Solids (SS)		0.5	mg/L	2.6	2.4	8.0			
HK2303106-003	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	7.8	8.2	5.6			

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

Matrix: WATER			Method Blank (ME	l) Report		Laboratory Contin	ol Splice (LCS) and Labora	ntory Control S	plke Duplicate (DCS) Report	
						Splice 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: 4837184)										
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.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

: LAM ENVIRONMENTAL SERVICES LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 4 Client Laboratory : ALEX CHAN : HK2301289

Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing

Yip Street, Kwai Chung, N.T., Hong Kong

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: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 20-Jan-2023 : HKE/2224/2021_V3 : 31-Jan-2023 Order number : -

number C-O-C number : — No. of samples received : 4

No. of samples analysed Site

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Signatories

Fung Lim Chee, Richard Managing Director Inorganics, Kwai Tsing

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

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Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

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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: HK2301289

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

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

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

Page Number

3 of 4 : LAM ENVIRONMENTAL SERVICES LTD

Client Work Order HK2301289



Analytical Results

•								
Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	_
		Samplii	ng date / time	20-Jan-2023	20-Jan-2023	20-Jan-2023	20-Jan-2023	_
Compound	CAS Number	LOR	Unit	HK2301289-001	HK2301289-002	HK2301289-003	HK2301289-004	
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)		2. 0	mg/L	6.0	6.2	10.7	10.4	



Page Number Client Work Order

: 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2301289

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggr	regate Properties (QC Lot: 483718	84)									
HK2301288-001	Anonymous	EA025: Suspended Solids (SS)		0. 5	mg/L	2. 6	2.4	8.0			
HK2303106-003	Anonymous	EA025: Suspended Solids (SS)	_	0. 5	mg/L	7. 8	8.2	5.6			

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

Matrix: WATER			Method Blank (MB) Report		Laboratory Contr	ol Splike (LCS) and Labora	tory Control S	plke Duplicate (DCS) Report	
						Splike 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: 4837184)										
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.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



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: HK2301290 Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG 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 : richard.fung@alsglobal.com E-mail : 2839 5629 : +852 2610 1044

Telephone Telephone : 2882 3331 : +852 2610 2021 Facsimile

: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 31-Jan-2023 : HKE/2224/2021_V3 : 04-Feb-2023 Order number : -

number

C-O-C number : — No. of samples received : 4 No. of samples analysed Site

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the testing laboratory. Signatories

> Fung Lim Chee, Richard Managing Director Inorganics, Kwai Tsing

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Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

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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: HK2301290

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

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

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



Page Number 3 of 4

Client Work Order : LAM ENVIRONMENTAL SERVICES LTD

HK2301290



Analytical Results

Sub-Matrix: FRESH WATER			Sample ID	C1	C1 - DUP	M1	M1 - DUP	_
		Samplir	ng date / time	27-Jan-2023	27-Jan-2023	27-Jan-2023	27-Jan-2023	_
Compound	CAS Number	LOR	Unit	HK2301290-001	HK2301290-002	HK2301290-003	HK2301290-004	
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	_	2. 0	mg/L	7.3	7.1	9.8	10.2	

Page Number Client Work Order

: 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2301290

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggre	egate Properties (QC Lot: 484778	31)									
HK2301290-001	C1	EA025: Suspended Solids (SS)	_	0. 5	mg/L	7. 3	7.6	4.0			
HK2303343-003	Anonymous	EA025: Suspended Solids (SS)	_	0. 5	mg/L	6. 2	5.9	4.1			

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

Matrix: WATER			Method Blank (ME	l) Report	Laboratory Control Splice (LCS) and Laboratory Control Splice Duplicate (DCS) Report							
						Splike 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: 4847781)											
EA025: Suspended Solids (SS)	_	0. 5	mg/L	<0. 5	20 mg/L	94.0	_	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

: LAM ENVIRONMENTAL SERVICES LTD : ALS Technichem (HK) Pty Ltd Page : 1 of 4 Client Laboratory : ALEX CHAN

: HK2301291 Contact : Richard Fung Work Order : 19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing

Yip Street, Kwai Chung, N.T., Hong Kong

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: CONTRACT NO. SPW 12/2021 - SHEK WU HUI EFFLUENT POLISHING PLANT Date Samples Received : 01-Feb-2023

: HKE/2224/2021_V3 : 04-Feb-2023 Order number : number

C-O-C number : -No. of samples received : 4 No. of samples analysed Site

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the testing laboratory. Signatories

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Page Number 2 of 4

E-mail

Client LAM ENVIRONMENTAL SERVICES LTD

Work Order

General Comments

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Testing period is from 01-Feb-2023 to 03-Feb-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: HK2301291

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.



Page Number 3 of 4

Client Work Order : LAM ENVIRONMENTAL SERVICES LTD

HK2301291



Analytical Results

Sub-Matrix: FRESH WATER		Sample ID		Sample ID		C1	C1 - DUP	M1	M1 - DUP	_
		Sampling date / time		30-Jan-2023	30-Jan-2023	30-Jan-2023	30-Jan-2023			
Compound	CAS Number	LOR	Unit	HK2301291-001	HK2301291-002	HK2301291-003	HK2301291-004			
EA/ED: Physical and Aggregate Properties										
EA025: Suspended Solids (SS)		2.0	mg/L	5.9	6.2	6.7	7.1			

Page Number Client Work Order : 4 of 4 : LAM ENVIRONMENTAL SERVICES LTD HK2301291

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)			
sample ID							Result				
EA/ED: Physical and Aggr	egate Properties (QC Lot: 48477)	B1)									
HK2301290-001	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	7.3	7.6	4.0			
HK2303343-003	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	6.2	5.9	4.1			

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

Matrix: WATER			Method Blank (ME	l) Report		Laboratory Contin	ol Splice (LCS) and Labora	ntory Control S	plke Duplicate (DCS) Report	
						Splike 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: 4847781)										
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	94.0		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

	Acti	ual Quantities	of Inert C&D	Materials Ge	nerated Mon	thly	Actu	al Quantities o	of C&D Wastes	Generated M	onthly
		Hard Rock									
Month	Total	and Large		Reused in				Paper/			Others, e.g.
WIOTILLI	Quantity	Broken	Reused in	other	Disposed as	Imported		cardboard		Chemical	general
	Generated	Concrete	the Contract	Projects	Public Fill	Fill	Metals	packaging	Plastics	Waste	refuse
	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	0.442	0.000	0.000	0.000	0.442	3.674	0.000	0.000	0.000	0.000	0.061
Feb											
Mar											
Apr											
May											
Jun											
Sub-total	0.442	0.000	0.000	0.000	0.442	3.674	0.000	0.000	0.000	0.000	0.061
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.442	0.000	0.000	0.000	0.442	3.674	0.000	0.000	0.000	0.000	0.061

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.

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

Monthly Summary Waste Flow Table for 2023

	Actua		of Inert C&D	Materials G	enerated Mo	onthly	Actual	Quantities o	f C&D Wastes	Generated	Monthly
	_	Hard Rock									_
Month	Total	and Large	Reused in	Reused in	Disposed			Paper/			Others, e.g.
WOILLI	Quantity	Broken	the	other	as Public	Imported		cardboard		Chemical	general
	Generated	Concrete	Contract	Projects	Fill	Fill	Metals	packaging	Plastics	Waste	refuse
	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)					
Jan	6.953	0.000	0.000	0.000	6.953	0.089	0.00	0.000	0.000	0.000	0.025
Feb											
Mar											
Apr											
May											
Jun											
Sub-total	6.953	0.000	0.000	0.000	6.953	0.089	0.00	0.000	0.000	0.000	0.025
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	6.953	0.000	0.000	0.000	6.953	0.089	0.00	0.000	0.000	0.000	0.025

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)

		Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly			
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m³)	(in '000m³)	(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	0.130	0	0	10.51
Feb											
Mar											
Apr											
May											
June											
Sub- total	0	0	0	0	0	0	0	0.130	0	0	10.51
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	0	0	0	0	0	0	0	0.130	0	0	10.51

Name of Department: DSD

Contract No.: <u>DE/2018/04</u>

Monthly Summary Waste Flow Table for 2023 (year)

		Actual Quanti	ties of Inert C&D	Materials Generate	ed Monthly			Actual Quantities of	C&D Wastes Go	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan	7.26	0	0	0	7.26	0	0	0	0	0	0
Feb											
Mar											
Apr											
May											
June											
Sub-total	7.26	0	0	0	7.26	0	0	0	0	0	0
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	7.26	0	0	0	7.26	0	0	0	0	0	0

Appendix 5.10

Exceedance Investigation Finding

Appendix 5.10a
Photo Record for
Out-site Boundary



Appendix 5.10b Site Diary From Engineer Respective

Diary Date	Location	Sub Location	Period	Activity
				1. General site work
				2. Erecting formwork to bend block of MS2000 and DI1400 pipe
				3. Pouring concrete surround and bend block of DI1400 and MS2000
2023/01/31	Portion C	Outfall	08:00 - 18:00	
				1. General site work
				2. Striking formwork of wing wall
2023/01/30	Portion C	Outfall	08:00 - 18:00	3. Pouring concrete surround of DI1400 and MS2000 pipe
2023/01/29	Portion C	Outfall	08:00 - 18:00	No activity on Sunday
				1. General site work
2023/01/28	Portion C	Outfall	08:00 - 18:00	2. Dismantling of working platform and falsework
				1. General site work
2023/01/27	Portion C	Outfall	08:00 - 18:00	2. Dismantling of working platform and falsework
2023/01/26	Portion C	Outfall	08:00 - 18:00	No activity
2023/01/25	Portion C	Outfall	08:00 - 18:00	No activity on Public Holiday
2023/01/24	Portion C	Outfall	08:00 - 18:00	No activity on Public Holiday
2023/01/23	Portion C	Outfall	08:00 - 18:00	No activity on Public Holiday
2023/01/22	Portion C	Outfall	08:00 - 18:00	No activity on Sunday
2023/01/21	Portion C	Outfall	08:00 - 18:00	No activity
2023/01/20	Portion C	Outfall	08:00 - 18:00	1. Striking formwork to wall
2023/01/19	Portion C	Outfall	08:00 - 18:00	1. Striking formwork to wall
2023/01/18	Portion C	Outfall	08:00 - 18:00	1. Striking formwork to wall
2023/01/17	Portion C	Outfall	08:00 - 18:00	1. Erecting formwork and pouring concrete to wall
2023/01/16	Portion C	Outfall	08:00 - 18:00	1. Rebar fixing and erecting formwork to wall
2023/01/15	Portion C	Outfall	08:00 - 18:00	No activity on Sunday
2023/01/14	Portion C	Outfall		1. Rebar fixing to wall
2023/01/13	Portion C	Outfall		1. Erecting formwork to wall
2023/01/12	Portion C	Outfall		1. Erecting formwork to wall
2023/01/11	Portion C	Outfall	08:00 - 18:00	1. Erecting formwork to wall
				1. Rebar fixing to wall
2023/01/10	Portion C	Outfall	08:00 - 18:00	2. Making good of CJ of wall
				1. Rebar fixing to wall
2023/01/09	Portion C	Outfall		2. Making good of CJ of wall
2023/01/08	Portion C	Outfall		1. Rebar fixing to wall
2023/01/07	Portion C	Outfall		1. Rebar fixing to wall
2023/01/06	Portion C	Outfall		1. General site work
2023/01/05	Portion C	Outfall	08:00 - 18:00	1. General site work
				1. General site work
2023/01/04	Portion C	Outfall	08:00 - 18:00	2. Erecting formwork to wall of outfall

Appendix 5.10c Site Photo Record Taken During WQM



Photo record from ET Team on 4 Jan 2023



Photo record from ET Team on 6 Jan 2023



Photo record from ET Team on 9 Jan 2023



Photo record from ET Team on 11 Jan 2023



Photo record from ET Team on 13 Jan 2023



Photo record from ET Team on 18 Jan 2023



Photo record from ET Team on 20 Jan 2023



Photo record from ET Team on 27 Jan 2023



Photo record from ET Team on 30 Jan 2023

Appendix 6.1

Event and Action Plans



Event and Action Plan

Event and Action Plan for Construction Noise

		Act	ion	
Event	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.	Submit noise mitigation proposals to IEC; 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

_		Actio	on	
Event	ET	IEC	ER	Contractor
Action Level				
Action level being exceeded by one sampling	Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	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.	Confirm receipt of notification of exceedance in writing; Notify Contractor; 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	monitoring.	<u> </u>	<u> </u>	<u> </u>
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.



Frant		Actio	on	
Event	ET	IEC	ER	Contractor
Limit level being exceeded by two or more consecutive sampling	ER informed of the results. 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

Frant		Act	ion	
Event	ET	IEC	ER	Contractor
Non-conformity on one occasion	Inform the Contractor, IEC and ER; Discuss remedial actions with IEC, ER and Contractor 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	Confirm receipt of notification of failure in writing; Review and agree on the remedial measures proposed by the Contractor; 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

- ,		Actio	on	
Event	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.	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.

F		Action							
Event	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: January 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	Investigation Result & Fo	ollow-up Action
SWH_017_w	4-Jan-23	M1	Turbidity (NTU)	8.10 NTU (Limit Level Exceedance)	>5.33 NTU (120% of C1)	>5.77 NTU (130% of C1)	Cause of Exceedance: ET's conclusions and recommendations for mitigation: Contractor's actions to implement the mitigation: Action taken under EAP:	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. 1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and
			SS (mg/L)	6.35 mg/l (Limit Level Exceedance)	>4.92 mg/l (120% of C1)	>5.33 mg/l (130% of C1)		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.



_	T		_		1	,		
SWH_018_w	6-Jan-23	M1	Turbidity (NTU)	8.00 NTU (Limit Level Exceedance)	>5.12 NTU (120% of C1)	>5.55 NTU (130% of C1)	Cause of Exceedance: ET's conclusions and recommendations for mitigation: Contractor's actions to implement the mitigation: Action taken under EAP:	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. 1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and
			SS (mg/L)	5.75 mg/l (Action Level Exceedance)	>5.64 mg/l (120% of C1)	>6.11 mg/l (130% of C1)		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_019_w	9-Jan-23	M1	DO (mg/L)	6.24 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: Action taken under EAP:	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. 1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and
			SS (mg/L)	20.25 mg/L (Limit Level Exceedance)	>18.8 mg/L	>19.5 mg/L		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_021_w	13-Jan-	M1	DO (mg/L)	4.92 mg/L	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance:	Unknown pollution source from upstream of Ng
	23			(Limit Level Exceedance)			Exceedance: ET's conclusions and recommendations for mitigation:	Tung River Exceedance not related to project, advised contractor to maintain on-going water mitigation measures.
							Contractor's actions to implement the mitigation: Action taken under	Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed. 1. ET repeated in situ measurement immediately to
			Turbidity (NTU)	35.46 NTU (Limit Level Exceedance)	>14.6 NTU	>15.6 NTU	EAP:	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_022_w	18-Jan- 22	M1	DO (mg/L)	7.29 mg/L (Limit Level Exceedance)	<7.8 mg/L	<7.7 mg/L	Cause of Exceedance: ET's conclusions and recommendations for mitigation:	Unknown pollution source from upstream of Ng Tung River Exceedance not related to project, advised contractor to maintain on-going water mitigation measures.
							Contractor's actions to implement the mitigation: Action taken under EAP:	Construction activities were checked; Outfall was checked and no soil or water dropped from outfall was observed. 1. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and
			SS (mg/L)	13.10 mg/L (Limit Level Exceedance)	>3.24 mg/L (>120% of C1)	>3.51 mg/L (>130% of C1)		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 023 w	20-Jan-	M1	DO (mg/L)	6.57 mg/L	<7.8 mg/L	<7.7 mg/L	Cause of	Unknown pollution source from upstream of Ng
	22		(3)	(Limit Level Exceedance)			Exceedance: ET's conclusions and recommendations for mitigation: Contractor's actions to implement the mitigation: Action taken under	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. 1. ET repeated in situ measurement immediately to
			SS (mg/L)	10.55 mg/L (Limit Level Exceedance)	>7.32 mg/L (>120% of C1)	>7.93 mg/L (>130% of C1)	EAP:	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_024_w	27-Jan- 22	M1	DO (mg/L)	6.92 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: Action taken under EAP:	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. 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_025_w 30-Jan-22 M1 DO (mg/L) 6.92 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: Action taken under EAP: Cause of 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. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. ET checked the monitoring data, plant and equipment, and no abnormality was identified. Construction activities were checked; Cutfall was observed. ET repeated in situ measurement immediately to confirm findings, the difference between 1st and 2nd monitoring results was very small. ET checked the monitoring data, plant and equipment, and no abnormality was identified. Contractor had reviewed the construction method for the outfall, only E&M works was conducted on outfall, which was land-based works After the recording of the exceedance, ET tried to identify the source of the exceedance immediately, but no obvious pollution source was identified. Notification of Exceedance was sent to IEC and
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Appendix 8.1

Complaint Log



Summary of Environmental Complaints Log

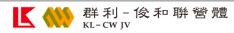
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status		
					Muddy water was suspected to be discharged from the expansion site of SWHSTP to Shek Sheung River, manholes and foul drains nearby			
			The investigation and mitigation measures include	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			
1	18 March 2020	EPD	Expansion Site of SWHSTP (Portion C)	Water contamination	- Installed additional sedimentation tanks and wastewater treatment system to increase the on-site treatment capacity	Closed		
					- 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			
					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			
	19 February				- Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart			
2	2021	EPD	SWHEPP	Odour nuisance	- Used ULSD for diesel-powered equipment	Closed		
					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			



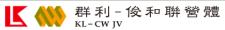
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Air nuisance was suspected to be originated from the construction activities of SWHEPP	
					The investigation and mitigation measures included	
					Ensured only PMEs with valid NRMM label were used on- site	
3	9 August 2021	EPD	SWHEPP	Air Quality	Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart	Closed
					- 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	
					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.	
20220304	4 March	EPD	SWHEPP	Odour nuisance	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:	Closed on 22 April
20220304	2022	EPD	SWIEPP	Odour nuisance	Ensure only equipment with valid NRMM label is allowed to be used at site and regular maintenance of equipment	with EPD.
					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	

Appendix 9.1

Construction Programme of Individual Contracts

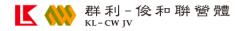


ctivity ID	KD	Task Name	Inclement Weather CE no. (NCE no.)	Duration		Finish	Actual Start A	ctual Finish Predecessors	Successors	% Time Complete Risk Allowan	2020 H1	2022 2024 H1 H1 H1 H1 H1
D-00000		Contract Dates		_		Sat 16/8/25	Mon 16/9/19	NA		0%	16/9	
D-01000 AD-00000		Starting Date		0 days		Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	4,5FS+181 days,6,7,8,9,11,1		16/9	
CAD-00000 CAD-01000		Access Date (cal. day) Portion A-1		180 days 0 days		Sat 14/3/20 Mon 16/9/19	Mon 16/9/19 Mon 16/9/19	Sat 14/3/20 Mon 16/9/19 2		100% 100%	♦ 16/9	
CAD-02000		Portion A-2		0 days		Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 2FS+181 days		100%	♦ 16/9	
CAD-03000		Portion C-1A		0 days		Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 2		100%	♦ 16/9	
CAD-04000		Portion C-1B		0 days		Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 2		100%	16/9	
CAD-05000		Portion C-2A		0 days		Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 2		100%	♦ 16/9	i
CAD-06000		Portion C-2B		0 days		Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 2		100%	♦ 16/9 16/0	
CAD-07000 CAD-08000		Portion C-2C Portion C-2D		0 days	Mon 16/9/19	Mon 16/9/19 Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 2 Mon 16/9/19 2		100%	♦ 16/9 ♦ 16/9	i i
CAD-08000 CAD-09000		Portion C-3		0 days 0 days	Mon 16/9/19		Mon 16/9/19 Mon 16/9/19	Mon 16/9/19 2 Mon 16/9/19 2		100%	16/9	
CAD-03000		Portion C-4		0 days		Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 2		100%	16/9	i i
CAD-11000		Portion C-5		0 days	Mon 16/9/19		Mon 16/9/19	Mon 16/9/19 2		100%	♦ 16/9	
CAD-12000		Portion C-6		0 days	Sat 14/3/20	Sat 14/3/20	Sat 14/3/20	Sat 14/3/20 2FS+181 days	561	100%	♦ 14/3	i i
CAD-13000		Works Area WA1		1 day	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 2		100%	16/9 16/9	
CAD-14000		Works Area WA2-A		1 day		Mon 16/9/19	Mon 16/9/19	Mon 16/9/19 2		100%	16/9 16/9	i
CKD-00000		Key Date (cal. day)		404 days	Sat 22/5/21		Sat 22/5/21	NA		0%		22/5 29/6
CKD-01000 CKD-02000		KD1A (613.5days after starting date)		0 days	Sat 22/5/21	Sat 22/5/21	Sat 22/5/21	Sat 22/5/21 2FS+614.5 days,36FF	53 61	100%		♦ 22/5 ♦ 14/12
CKD-02000 CKD-03000		KD2A (820 days after starting date) KD3A (921 days after starting date)		0 days 0 days	Fri 25/3/22	Tue 14/12/21 Fri 25/3/22	Tue 14/12/21 Fri 25/3/22	Tue 14/12/21 2FS+821 days,37FF Fri 25/3/22 2FS+922 days,38FF	69	100%		♦ 25/3
CKD-03000		KD3B (906 days after starting date)		0 days	Thu 10/3/22		Thu 10/3/22	Thu 10/3/22 2FS+907 days,39FF	78	100%		♦ 10/3
CKD-05000		KD3C (898 days after starting date)		0 days	Wed 2/3/22		Wed 2/3/22	Wed 2/3/22 2FS+899 days,40FF	86	100%		♦ 2/3
CKD-06000		KD3D (785 days after starting date)		0 days	Tue 9/11/21		Tue 9/11/21	Tue 9/11/21 2FS+786 days,41FF	94	100%	1	♦ 9/11
CKD-07000		KD3E (1016.5days after starting date)		0 days		Wed 29/6/22	NA	NA 2FS+1017.5 days,42FF	101	0%		♦ 29/6
CCD-00000		Completion Date (cal. day)				1 Sat 16/8/25	Thu 30/12/21	NA		0%		30/12
CCD-01000		Section 1 of Works (836 days after starting date)		1 day		Thu 30/12/21	Thu 30/12/21	Thu 30/12/21 2FS+837 days,44FF	109	100%		30/12 30/12
CCD-02000 CCD-03000		Section 2 of Works (1,460 days after starting date) Section 3 of Works (1,325.5 days after starting date)		0 days	Fri 15/9/23 Thu 4/5/23	Fri 15/9/23 Thu 4/5/23	NA NA	NA 2FS+1461 days,45FF NA 2FS+1326.5 days,46FF	118 127	0%	-	♦ 15/9 ♦ 4/5
CCD-03000 CCD-04000		Section 3 of Works (1,325.5 days after starting date) Section 4 of Works (1,105.5 days after starting date)		0 days 0 days	Thu 4/5/23 Thu 29/9/22		NA NA	NA 2FS+1326.5 days,46FF NA 2FS+1106.5 days,47FF	136	0%		
CCD-04000 CCD-05000		Section 5 of Works (1,795.5 days after starting date)		0 days	Fri 16/8/24	Fri 16/8/24	NA NA	NA 2FS+1796.5 days,48FF	32,33,145	0%		♦ 16/8
CCD-06000		Defect Liability Period		365 days	Sat 17/8/24	Sat 16/8/25	NA NA	NA 31		0%		\
CCD-07000		Soft Landscape Establishment Works		365 days	Sat 17/8/24		NA	NA 31		0%		•
PD-00000	*	Planned Completion - Key Date (cal. day)		2114 days	Fri 1/11/19	Thu 14/8/25	Fri 1/11/19	NA		30%	1/11	
PKD-00000	*	Planned Completion - Key Dates		717.8 days			Wed 12/5/21	NA		0%		12/5 29/4
PKD-01000	KD1A	KD1A		0 days	Wed 12/5/21		Wed 12/5/21	Wed 12/5/21 301FF	19FF	100%		♦ 12/5 • 2/1
PKD-02000	KD2A KD3A	KD2A KD3A		0 days	Mon 3/1/22 Eri 2/9/22	Mon 3/1/22 Fri 2/9/22	Mon 3/1/22	Mon 3/1/22 662FF	20FF 21FF	100%		♦ 3/1 ♦ 2/9
PKD-03000 PKD-04000	KD3A KD3B	KD3B		0 days 0 days	Fri 2/9/22 Tue 7/6/22	Fri 2/9/22 Tue 7/6/22	Fri 2/9/22 Tue 7/6/22	Fri 2/9/22 331FF Tue 7/6/22 367FF	21FF 22FF	100% 100%		♦ 2/9 ♦ 7/6
PKD-04000 PKD-05000	KD3C	KD3C		0 days		2 Wed 26/10/22	Wed 26/10/22	Wed 26/10/22 389FF	23FF	100%		♦ 26/10
PKD-06000	KD3D	KD3D		0 days	Sat 20/11/21		Sat 20/11/21	Sat 20/11/21 421FF	24FF	100%		♦ 20/11
PKD-07000	KD3E	KD3E		0 days	Sat 29/4/23		NA NA	NA 436FF,445FF,455FF,465FF,507F		0%		♦ 29/4
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%		25/3
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 558FF,590FF,591FF,592FF,593F		100%		♦ 25/3
PCD-02000	SW2	Section 2 of Works		0 days	Fri 15/9/23	Fri 15/9/23	NA	NA 683FF,695FF	28FF	0%		♦ 15/9 • 10/0
PCD-03000	SW3	Section 3 of Works		0 days	Fri 18/8/23	Fri 18/8/23	NA NA	NA 205FF,391FF,405FF,423FF,446F		0%		♦ 18/8 • 27/6
PCD-04000 PCD-05000	SW4 SW5	Section 4 of Works		0 days	Tue 27/6/23		NA NA	NA 559FF,346FF,372FF,392FF,406F NA 308FF,347FF,373FF,393FF,407F	1 11	0% 0%	-	◆ 27/6◆ 14/8
PCD-05000 PCD-06000	DLP	Section 5 of Works Defect Liability Period		0 days 365 days	Wed 14/8/24 Thu 15/8/24		NA NA	NA 308FF,347FF,373FF,393FF,407F NA 48,629FF	11,545,0U,01FF	0%		14/8
PCD-07000		Soft Landscape Establishment Works		365 days	Thu 15/8/24		NA NA	NA 48,621,622,623		0%		¥.
DE-00000		Delaying Events Other than Change of Works Information to be considered		1480.8 day	ys Fri 1/11/19	Thu 7/11/24	Fri 1/11/19	NA NA		51%	1/11	7/11
IWKD1A-01000		Inclement Weather to KD1A		11 days	Fri 4/6/21	Thu 17/6/21	Fri 4/6/21	NA		90%		4/6 ₪ 17/6
IWKD1A-01010		Delay and Disruption of Works before December 2022		0 days	Fri 4/6/21	Fri 4/6/21	Fri 4/6/21	Fri 4/6/21 19	54	100%		♦ 4/6 • 0/2
IWKD1A-01020		Delay and Disruption of Works for the month of December 2022		0 days	Tue 8/6/21	Tue 8/6/21	Tue 8/6/21	Tue 8/6/21 53	55 56	100%		♦ 8/6 9/6 • 17/6
IWKD1A-01030 IWKD1A-01040	KD1A	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022 Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022		10 days 0 days	Tue 8/6/21 Wed 16/6/21	Thu 17/6/21 Wed 16/6/21	Tue 8/6/21 Wed 16/6/21	NA 54 Wed 16/6/21 55	50	90%		8/6 17/6 ♦ 16/6
OEKD1A-01000	KDIA	Other Events affected to KD1A		79 days	Fri 1/11/19	Fri 7/2/20	Fri 1/11/19	Fri 7/2/20		100%	1/11 7/2	V 10/0
OEKD1A-01010		Unforeseen Social Activities in Hong Kong in November 2019	(3)	6 days	Fri 1/11/19	Thu 7/11/19	Fri 1/11/19	Thu 7/11/19		100%	1/11 7/11	
OEKD1A-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus	5	4 days	Tue 4/2/20	Fri 7/2/20	Tue 4/2/20	Fri 7/2/20		100%	4/2 7/2	
IWKD2A-01000		Inclement Weather to KD2A		46 days		1 Mon 21/2/22	Thu 23/12/21	Mon 21/2/22		100%		23/12 📺 21/2
IWKD2A-01010		Delay and Disruption of Works before December 2022		0 days	Thu 23/12/21		Thu 23/12/21	Thu 23/12/21 20	62	100%		♦ 23/12
IWKD2A-01020		Delay and Disruption of Works for the month of December 2022		0 days	Thu 20/1/22		Thu 20/1/22	Thu 20/1/22 61	63	100%		♦ 20/1
IWKD2A-01030	We - 1	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022		10 days	Sat 12/2/22		Sat 12/2/22	Mon 21/2/22 62	64	100%		12/2 21/2
IWKD2A-01040	KD2A	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022		0 days	Mon 21/2/22		Mon 21/2/22	Mon 21/2/22 63		100%	1/11 7/0	♦ 21/2
OEKD2A-01000 OEKD2A-01010		Other Events affected to KD2A Unforeseen Social Activities in Hong Kong in November 2019	(3)	79 days	Fri 1/11/19 Fri 1/11/19	Fri 7/2/20 Thu 7/11/19	Fri 1/11/19 Fri 1/11/19	Fri 7/2/20 Thu 7/11/19		100% 100%	1/11 7/2	!
OEKD2A-01010		Unforeseen Social Activities in Hong Kong in November 2019 Special Arrangement for Work After CNY due to Spread of Novel Coronavirus	5	6 days 4 days	Tue 4/2/20	Fri 7/2/20	Tue 4/2/20	Fri 7/2/20		100%	4/2 7/2	
IWKD3A-01000		Inclement Weather to KD3A		67 days	Sat 4/6/22	Mon 22/8/22	Sat 4/6/22	NA		27%	,	4/6 22/8
IWKD3A-01010		Delay and Disruption of Works before December 2022	(462), (464),	67 days	Sat 4/6/22	Mon 22/8/22	Sat 4/6/22	NA 21	70	31%	1	4/6 22/8
IWKD3A-01020		Delay and Disruption of Works for the month of December 2022		0 days	Wed 29/6/22		Wed 29/6/22	Wed 29/6/22 69	71	100%		♦ 29/6
IWKD3A-01030		Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022		16 days	Wed 20/7/22		Wed 20/7/22	NA 70	72	6%		20/7 4/8
IWKD3A-01040	KD3A	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022		0 days	Tue 2/8/22	Tue 2/8/22	Tue 2/8/22	Tue 2/8/22 71		100%		♦ 2/8
OEKD3A-01000		Other Events affected to KD3A	(0)	732 days	Fri 1/11/19	Sat 23/4/22	Fri 1/11/19	Sat 23/4/22		100%	1/11	23/4
OEKD3A-01010		Unforeseen Social Activities in Hong Kong in November 2019	(3)	6 days	Fri 1/11/19	Thu 7/11/19	Fri 1/11/19	Thu 7/11/19		100%	1/11 7/11 4/2 7/2	į į
OEKD3A-01020 OEKD3A-01030		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus Special Arrangement for Work After CNY due 5th wave of COVID-19 Outbreak	(436)	4 days 30 days	Tue 4/2/20 Fri 25/3/22	Fri 7/2/20 Sat 23/4/22	Tue 4/2/20 Fri 25/3/22	Fri 7/2/20 Sat 23/4/22		100% 100%	412 112	25/3 23/4
IWKD3B-01000		Inclement Weather to KD3B	(400)	45 days	Thu 12/5/22		Thu 12/5/22	Sat 23/4/22 NA		70%		12/5 5/7
IWKD3B-01010		Delay and Disruption of Works before December 2022	(450), (462),	34 days	Thu 12/5/22		Thu 12/5/22	NA 22		62%		12/5 21/6
IWKD3B-01020		Delay and Disruption of Works for the month of December 2022	· · · · · · · · · · · · · · · · · · ·	0 days	Tue 7/6/22	Tue 7/6/22	Tue 7/6/22	Tue 7/6/22		100%		♦ 7/6
IWKD3B-01030		Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022		10 days	Sun 26/6/22		Sun 26/6/22	Tue 5/7/22		100%		26/6 5/7
IWKD3B-01040	KD3B	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022		0 days	Tue 5/7/22	Tue 5/7/22	Tue 5/7/22	Tue 5/7/22		100%		♦ 5/7
OEKD3B-01000		Other Events affected to KD3B		657 days	Tue 4/2/20	Sat 23/4/22	Tue 4/2/20	Sat 23/4/22		100%	4/2	23/4
OEKD3B-01010		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus	5	4 days	Tue 4/2/20	Fri 7/2/20	Tue 4/2/20	Fri 7/2/20		100%	4/2 7/2	
OEKD3B-01020		Special Arrangement for Work After CNY due 5th wave of COVID-19 Outbreak	(436)	30 days	Fri 25/3/22	Sat 23/4/22	Fri 25/3/22	Sat 23/4/22		100%		25/3 23/4
IWKD3C-01000		Inclement Weather to KD3C	(450) (460)	81 days	Tue 10/5/22		Tue 10/5/22	NA NA 22		42%		10/5 13/8
IWKD3C-01010		Delay and Disruption of Works before December 2022	(450), (462),	81 days	Tue 10/5/22		Tue 10/5/22	NA 23 NA		26% 91%		10/5 13/8 4/6 1 16/6
		Delay and Disruption of Works for the month of December 2022 Delay and Disruption of works due to Red/Black Storm Signal/Typhoon No.8 or above before December 2022		11 days 16 days	Sat 4/6/22 Fri 24/6/22	Thu 16/6/22 Sun 24/7/22	Sat 4/6/22 Fri 24/6/22	NA NA		91% 88%	-	4/6 1 16/6 24/6 24/7
IWKD3C-01020		Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022 Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022		0 days	Fri 8/7/22	Sun 24/1/22 Fri 8/7/22	Fri 8/7/22	NA NA		99%		E-1/0 E-1/1
IWKD3C-01030	KD3C			o uayo	1110/1/22						1 40 -	- 00/4
	KD3C	Other Events affected to KD3C		657 days	Tue 4/2/20	Sat 23/4/22	Tue 4/2/20	Sat 23/4/22		100%	4/2	23/4
IWKD3C-01030 IWKD3C-01040	KD3C		5	657 days 4 days	Tue 4/2/20 Tue 4/2/20	Sat 23/4/22 Fri 7/2/20	Tue 4/2/20 Tue 4/2/20	Sat 23/4/22 Fri 7/2/20		100%	4/2 7/2	23/4

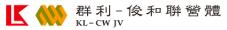


Activity ID	KD	Task Name	Weather CE no. (NCE		Ouration	Start	Finish	Actual Start Actual Finish Predecessors		% Time Complete Risk Allowar		2022	2024	
IWKD3D-01000		Inclement Weather to KD3D	no.)	49	9 days	Mon 15/11/21	Thu 13/1/22	Mon 15/11/21 Thu 13/1/22		100%	H1 H1 H1 15/1	H1	H1 H1	H1
IWKD3D-01010		Delay and Disruption of Works before December 2022			days	Mon 15/11/21		Mon 15/11/21 Mon 15/11/21 24		100%		♦ 15/11		
IWKD3D-01020		Delay and Disruption of Works for the month of December 2022		0	days	Thu 18/11/21	Thu 18/11/21	Thu 18/11/21 Thu 18/11/21		100%		4 18/11	1	
IWKD3D-01030		Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022			•		Thu 13/1/22	Fri 31/12/21 Thu 13/1/22		100%	31	1/12 13/1		
IWKD3D-01040	KD3D	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022			days		Thu 13/1/22	Thu 13/1/22 Thu 13/1/22		100%	4/0 - 7/0	♦ 13/1	1	
OEKD3D-01000		Other Events affected to KD3D			-		Fri 7/2/20	Tue 4/2/20 Fri 7/2/20		100%	4/2 7/2 4/2 7/2			
OEKD3D-01010		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus			days		Fri 7/2/20 Sun 18/9/22	Tue 4/2/20 Fri 7/2/20 NA NA		100%	4/2 1/2	30/6	18/0	
IWKD3E-01000 IWKD3E-01010		Inclement Weather to KD3E Delay and Disruption of Works before December 2022	(502), (508),				Fri 26/8/22	NA NA NA 25	102	0 %		30/6 _ 26	· ·	
IWKD3E-01010		Delay and Disruption of Works for the month of December 2022 Delay and Disruption of Works for the month of December 2022	(502), (506),		9 days days		Thu 1/9/22	NA NA 101	102	0%		27/8 1/		
IWKD3E-01030		Delay and Disruption of works due to Red/Black Storm Signal/Typhoon No.8 or above before December 2022	(551)				Sun 18/9/22	NA NA 102	104	0%		2/9 1		
IWKD3E-01040	KD3E	Delay and Disruption of works due to Red/Black Storm Signal/Typhoon No.8 or above for December 2022			days		Sun 18/9/22	NA NA 103	104	0%			18/9	
OEKD3E-01000		Other Events affected to KD3E			57 days		Sat 23/4/22	Tue 4/2/20 Sat 23/4/22		100%	4/2	23/4		
OEKD3E-01010		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5 4	days	Tue 4/2/20	Fri 7/2/20	Tue 4/2/20 Fri 7/2/20		100%	4/2 7/2			
OEKD3E-01020		Special Arrangement for Work After CNY due 5th wave of COVID-19 Outbreak		(436) 30	0 days	Fri 25/3/22	Sat 23/4/22	Fri 25/3/22 Sat 23/4/22		100%		25/3 23/4	i	
IWSW1-01000		Inclement Weather to Section 1 of the Works		10	09 days	Mon 10/1/22	Thu 26/5/22	Mon 10/1/22 NA		88%	1	10/1 26/5		
IWSW1-01010		Delay and Disruption of Works before December 2022		0	days		Mon 10/1/22	Mon 10/1/22 Mon 10/1/22 27	110	100%		♦ 10/1	i	
IWSW1-01020		Delay and Disruption of Works for the month of December 2022			days		Thu 13/1/22	Thu 13/1/22 Thu 13/1/22 109	111	100%		♦ 13/1		
IWSW1-01030		Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022			6 days		Thu 26/5/22	Wed 11/5/22 NA 110	112	88%		11/5 26/5		
IWSW1-01040	SW1	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022			days		Tue 24/5/22	Tue 24/5/22 Tue 24/5/22 111		100%	1/11	♦ 24/5	1	
OESW1-01000 OESW1-01010		Other Events affected to Section 1 of the Works Unforeseen Social Activities in Hong Kong in November 2019			32 days days		Sat 23/4/22 Thu 7/11/19	Fri 1/11/19 Sat 23/4/22 Fri 1/11/19 Thu 7/11/19		100% 100%	1/11 7/11	23/4		
OESW1-01010 OESW1-01020		Unforeseen Social Activities in Hong Kong in November 2019 Special Arrangement for Work After CNY due to Spread of Novel Coronavirus			days		Fri 7/2/20	Tue 4/2/20 Fri 7/2/20		100%	4/2 7/2		1	
OESW1-01020 OESW1-01030		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus Special Arrangement for Work After CNY due 5th wave of COVID-19 Outbreak			•		Sat 23/4/22	Fri 25/3/22 Sat 23/4/22		100%	72 1/2	25/3 23/4	I I	
IWSW2-01000		Inclement Weather to Section 2 of the Works		. ,	8 days		Thu 7/12/23	NA NA		0%	1		16/9 7/12	
IWSW2-01010		Delay and Disruption of Works before December 2022	(502), (508),		9 days		Wed 15/11/23	NA NA 28	119	0%	1		16/9 15/11	
IWSW2-01020		Delay and Disruption of Works for the month of December 2022	(551)		days	Thu 16/11/23		NA NA 118	120	0%			16/11 21/11	
IWSW1-01030		Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022			6 days			NA NA 119	121	0%			22/11 7/12	
IWSW1-01040	SW2	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022			days		Thu 7/12/23	NA NA 120		0%			♦ 7/12	
OESW2-01000		Other Events affected to Section 2 of the Works			•		Sat 23/4/22	Fri 1/11/19 Sat 23/4/22		100%	1/11	23/4		
OESW2-01010		Unforeseen Social Activities in Hong Kong in November 2019		. ,	days		Thu 7/11/19	Fri 1/11/19 Thu 7/11/19		100%	1/11 7/11		1	
OESW2-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus			days		Fri 7/2/20	Tue 4/2/20 Fri 7/2/20		100%	4/2 7/2	25/3 23/4	1	
OESW2-01030 IWSW3-01000		Special Arrangement for Work After CNY due 5th wave of COVID-19 Outbreak Inclement Weather to Section 3 of the Works		` '	-		Sat 23/4/22 Wed 26/7/23	Fri 25/3/22 Sat 23/4/22 NA NA		100% 0 %		23/3 23/4	5/5 26/7	
IWSW3-01010		Delay and Disruption of Works before December 2022	(502), (508),		•		Tue 4/7/23	NA NA NA 29	128	0%			5/5 4/7	
IWSW3-01010		Delay and Disruption of Works before December 2022 Delay and Disruption of Works for the month of December 2022	(502), (508),		days days		Mon 10/7/23	NA NA 29 NA NA 127	128	0%			5/7 10/7	
IWSW3-01030		Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022	(001)				Wed 26/7/23	NA NA 128	130	0%			11/7 26/7	
IWSW3-01040	SW3	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022			days		Wed 26/7/23	NA NA 129	100	0%			♦ 26/7	
OESW3-01000		Other Events affected to Section 3 of the Works			-		Sat 23/4/22	Fri 1/11/19 Sat 23/4/22		100%	1/11	23/4		
OESW3-01010		Unforeseen Social Activities in Hong Kong in November 2019			days		Thu 7/11/19	Fri 1/11/19 Thu 7/11/19		100%	1/11 7/11			
OESW3-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus		5 4	days		Fri 7/2/20	Tue 4/2/20 Fri 7/2/20		100%	4/2 7/2		I I	
OESW3-01030		Special Arrangement for Work After CNY due 5th wave of COVID-19 Outbreak			-		Sat 23/4/22	Fri 25/3/22 Sat 23/4/22		100%		25/3 23/4	1	
IWSW4-01000		Inclement Weather to Section 4 of the Works					Mon 19/12/22	NA NA		0%			19/12	
IWSW4-01010		Delay and Disruption of Works before December 2022	(502), (508),		9 days		Mon 28/11/22	NA NA 30	137	0%		30/9	- 1	
IWSW4-01020		Delay and Disruption of Works for the month of December 2022	(551)		days	Tue 29/11/22		NA NA 136	138	0%			3/12	
IWSW4-01030	CIAIA	Delay and Disruption of works due to Red/Black Storm Signal/Typhoon No.8 or above before December 2022					Mon 19/12/22	NA NA 137 NA NA 138	139	0%			19/12	
IWSW4-01040 OESW4-01000	SW4	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022 Other Events affected to Section 4 of the Works			days 32 days	Mon 19/12/22 Fri 1/11/19	Mon 19/12/22 Sat 23/4/22	NA NA 138 Fri 1/11/19 Sat 23/4/22		0% 100%	1/11	23/4	19/12	
OESW4-01000		Unforeseen Social Activities in Hong Kong in November 2019			days		Thu 7/11/19	Fri 1/11/19 Sat 23/4/22 Fri 1/11/19 Thu 7/11/19		100%	1/11 7/11	25/7		
OESW4-01020		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus			days		Fri 7/2/20	Tue 4/2/20 Fri 7/2/20		100%	4/2 7/2			
OESW4-01030		Special Arrangement for Work After CNY due 5th wave of COVID-19 Outbreak			•		Sat 23/4/22	Fri 25/3/22 Sat 23/4/22		100%		25/3 23/4	İ	
IWSW5-01000		Inclement Weather to Section 5 of the Works			8 days	Sat 17/8/24	Thu 7/11/24	NA NA		0%			_	7/11
IWSW5-01010		Delay and Disruption of Works before December 2022	(502), (508),				Wed 16/10/24	NA NA 31	146	0%			_	16/10
IWSW5-01020		Delay and Disruption of Works for the month of December 2022	(551)		days	Thu 17/10/24		NA NA 145	147	0%				22/10
IWSW5-01030	011/5	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above before December 2022				Wed 23/10/24		NA NA 146	148	0%			23/10	7/11
IWSW5-01040 OESW5-01000	SW5	Delay and Disruption of works due to Red/Black Storm Signal/ Typhoon No.8 or above for December 2022 Other Events affected to Section 5 of the Works					Thu 7/11/24	NA NA 147 Fri 1/11/19 Sat 23/4/22		0%	1/11	23/4	1	♦ 7/11
OESW5-01000 OESW5-01010		Other Events affected to Section 5 of the Works Unforeseen Social Activities in Hong Kong in November 2019			32 days days		Sat 23/4/22 Thu 7/11/19	Fri 1/11/19 Sat 23/4/22 Fri 1/11/19 Thu 7/11/19		100% 100%	1/11 7/11	23/4	I I	
OESW5-01010		Special Arrangement for Work After CNY due to Spread of Novel Coronavirus			days		Fri 7/2/20	Tue 4/2/20 Fri 7/2/20		100%	4/2 7/2			
OESW5-01020		Special Arrangement for Work After CNY due 5th wave of COVID-19 Outbreak			•		Sat 23/4/22	Fri 25/3/22 Sat 23/4/22		100%		25/3 23/4	I I	
SUB-00000		Submissions (cal. day)		` '	590 days		Mon 22/1/24	Mon 16/9/19 NA		84%	16/9		22/1	
SUBS-00000		Subletting Package		11	101 days	Mon 16/9/19	Tue 20/9/22	Mon 16/9/19 Tue 20/9/22		100%	16/9		20/9	
SUBS-01000		Prepare & Submit Subletting Procedures			day	Mon 16/9/19		Mon 16/9/19 Mon 16/9/19 2	156	100%	16/9 16/9		İ	
SUBS-02000		PM Review & Accept Subletting Procedures			•	Mon 16/9/19		Mon 16/9/19 Mon 7/10/19 155	158,160,157,159,168,174,169,1		16/9 7/10			
SUBS-03000		Subletting for Preliminary Works (Instrumentation Monitoring etc.)			•	Mon 7/10/19		Mon 7/10/19 Wed 6/11/19 156		100%	7/10 6/11			
SUBS-04000		Subletting for Drainage Diversion Works for UV System no.1& Effluent Pumping Station No.1 (NCE no. 3)			4 days		Wed 20/11/19	Tue 8/10/19 Wed 20/11/19 156	554	100%	8/10 20/11			
SUBS-05000		Subletting for the Temporary Site accommodation			14 days	Tue 22/10/19		Tue 22/10/19 Wed 12/2/20 156	265	100%	22/10 12/2			
SUBS-06000 SUBS-07000		Subletting for Pre-drilling Works (NCE no.3) Subletting for Pre-bored Socketed Steel H-Pile					Thu 28/11/19 Sat 4/1/20	Tue 8/10/19 Thu 28/11/19 156 Fri 13/12/19 Sat 4/1/20 160SS+15 days	161SS+15 days,162SS+15 days 640,317,355,379,399,413,432,2		8/10 28/11 13/12 4/1		1	
SUBS-07000 SUBS-08000		Subletting for Pre-dored Socketed Steel H-Pile Subletting for Contractor's Designer for Temporary Works (NCE no.3)			-		Sat 4/1/20 Wed 27/11/19	Fri 25/10/19 Sat 4/1/20 160SS+15 days Fri 25/10/19 Wed 27/11/19 160SS+15 days	166,164,179,171,165	100%	25/10 27/11		I I	
SUBS-09000		Subletting for Contractor's Designer for Lemporary Works (NCE no.3) Subletting for Independent Checking Engineer (NCE no.3)			2 days 7 days	Wed 30/10/19		Wed 30/10/19 Wed 2//11/19 160/SS+15 days Wed 30/10/19 Mon 25/11/19 156	283,326,358SS,381,402,415,64		30/10 25/11			
SUBS-10000		Subletting for Sheetpile and ELS Works	17				Fri 20/3/20	Wed 30/10/19 Wi01/25/11/19 130 Wed 8/1/20 Fri 20/3/20 162	283,326,358SS,381,402,415,43		8/1 20/3		1	
SUBS-11000		Subletting for R.C Works (Portion A and UV no.1 building only)	33, 45, 46		4 days	Wed 0/1/20 Wed 24/6/20		Wed 24/6/20 Thu 6/8/20 162	286	100%	24/6 6/8		İ	
SUBS-12000		Subletting for R.C Works (remaining buildings)	268, 338				Wed 17/3/21	Fri 5/2/21 Wed 17/3/21 162	383,646,443,465,483,498,514,5		5/2 ■ 17/3			
SUBS-13000		Subletting for Waterproofing for Structures	(112), 268,338		-		Tue 23/3/21	Fri 4/12/20 Tue 23/3/21 2	289,292,295,405,327	100%	4/12 23/3			
SUBS-14000		Subletting for ABWF & BS Works	268 , 338,		25 days	Mon 4/1/21	Tue 20/9/22	Mon 4/1/21 Tue 20/9/22 156	302SS,345SS,371SS,391SS,40		4/1	2	20/9	
SUBS-15000		Subletting for External Works including pipeworks and road works for UV System no.1 (Diversion)			2 days		Mon 2/3/20	Thu 20/2/20 Mon 2/3/20 156	554,170	100%	20/2 2/3		 	
SUBS-16000		Subletting for Drainage and Pipe works at UV System no.1	21		2 days		Wed 6/5/20	Wed 15/4/20 Wed 6/5/20 169		100%	15/4 6/5		T	
SUBS-17000		Subletting for Pipeworks, Utilities, and Roadworks	21			Wed 15/4/20		Wed 15/4/20 Wed 6/5/20 162	583	100%	15/4 ■ 6/5			
SUBS-18000		Subletting for trenchless construction	21		days	Wed 22/4/20		Wed 22/4/20 Tue 28/4/20 156	561	100%	22/4 28/4		İ	
SUBS-19000		Subletting for Traffic Management Consultant			3 days		Thu 20/2/20	Thu 9/1/20 Thu 20/2/20 156	186	100%	9/1 20/2	4/2 - 4/5		
SUBS-20000		Subletting for Hard Landscape and Soft Landscape Subletting for Pai Lau Detail Design			-		Wed 4/5/22 Fri 15/7/22	Fri 4/3/22 Wed 4/5/22 156	629,622,623,621	100% 100%		4/3 4/5 4/5 15/7	7	
SUBS-21000 SUBA-00000		Subletting for Pai Lau Detail Design Statutory Submission, Submission & Approval					Hri 15/7/22 Mon 22/1/24	Sat 28/5/22 Fri 15/7/22 Mon 16/9/19 NA		100% 90%	16/9	20/3 🔳 15/	22/1	
SUBA-00000 SUBA-01000		Prepare and Submit Subcontractor Management Plan (SMP)			day	Mon 16/9/19 Mon 16/9/19		Mon 16/9/19 NA Mon 16/9/19 Mon 16/9/19/2	313	100%	16/9 16/9		22/1	
SUBA-02000		Prepare and Submit Subcontractor Management Plan (SMP) Prepare, submit & approve the layout plan of the Temporary Site accommodation			-		Mon 21/9/20	Fri 20/9/19 Mon 21/9/20 2	265	100%	20/9 21/9		İ	
SUBA-03000		Prepare, submit & accept the ELS design for deep excavation	17, 25, 27, 32		07 days	Thu 24/10/19		Thu 24/10/19 Sun 21/6/20 162	283,326,358SS,381,402,415,43		24/10 21/6			
SUBA-04000		Prepare, submit & accept the Method Statement for Drainage Diversion Works	21, 22, 33		7 days		Tue 16/6/20	Tue 21/4/20 Tue 16/6/20 2	181,554	100%	21/4 16/6		İ	
SUBA-05000		PM approve the Method Statement for Drainage Diversion Works	,, 50		3 days	Wed 17/6/20		Wed 17/6/20 Mon 29/6/20 180	554	100%	17/6 29/6		1	
SUBA-06000		TTA Management				Mon 16/9/19		Mon 16/9/19 Mon 30/11/20		100%	16/9 30/11		1	
SUBA-06010		Excavation Permit Application for San Wan Road (Portion A)				Mon 16/9/19		Mon 16/9/19 Mon 30/11/20	664	100%	16/9 30/11		T	
30DA-00010		Excavation Permit Application for Chuk Wan Street (Portion C)			29 days			Mon 7/10/19 Sun 30/8/20 2FS+21 days		100%	7/10 30/8			

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



Activity ID	KD Task Name	Inclement Weather CE PMI & CE no. (NCE no.)	Duration	Oldit	Finish	Actual Start A	ctual Finish Pr	CUGUG33UI 3	Successors %	Time Complete Risk	2000	2022
		no. (NCE no.)								Allowan		2022 2024 H1 H1 H1 H1 H1
SUBA-06030	Prepare TTA Plan, submit & approve for footpath for Stage 1 - Drainage Diversion		67 days		Thu 21/11/19	Mon 16/9/19	Thu 21/11/19 2		554	100%	16/9 21/11	
SUBA-06040	Prepare TTA Plan, submit & approve for carriageway at San Wan Road for CLP 13kV substation		134 days		Wed 25/11/20		Wed 25/11/20 17	3	666	100%	15/7	
SUBA-07000	Environmental Aspect Submissions		257 days	Mon 16/9/19		Mon 16/9/19	Fri 29/5/20 2			100%	16/9 29/5	
SUBA-07010	Notification to EPD for Works Commencement		1 day		Wed 18/9/19	Wed 18/9/19	Wed 18/9/19 2		313	100%	18/9 18/9	
SUBA-07020	Apply & approve for Registration as a Chemical Waste Producer		1 day		Wed 18/9/19	Wed 18/9/19	Wed 18/9/19 2		313	100%	18/9 18/9	
SUBA-07030	Apply & approve for a Billing Account for Disposal of Construction Waste		1 day		Wed 18/9/19	Wed 18/9/19	Wed 18/9/19 2		313	100%	18/9 18/9	
SUBA-07040	Apply & approve for Effluent Discharge Licence		12 days	Thu 9/1/20	Mon 20/1/20	Thu 9/1/20	Mon 20/1/20 2		313	100%	9/1 20/1	
SUBA-07050	Prepare & submit of Project Layout Plan & O-Chart for EP		1 day	Fri 20/9/19	Fri 20/9/19	Fri 20/9/19	Fri 20/9/19 2		313	100%	20/9 20/9	
SUBA-07060	Prepare & submit Construction Noise Permits		121 days	Mon 16/9/19		Mon 16/9/19	Tue 14/1/20 2		194	100%	16/9 14/1	
SUBA-07070	Approval of Construction Noise Permits		48 days	Tue 14/1/20	Mon 2/3/20	Tue 14/1/20	Mon 2/3/20 19	3	313	100%	14/1 🔳 2/3	
SUBA-07080	Prepare, submit Site Management Plan for Trip Ticket System		9 days	Mon 16/9/19	Tue 24/9/19	Mon 16/9/19	Tue 24/9/19 2			100%	16/9 24/9	
SUBA-07090	Approval of Site Management Plan for Trip Ticket System		249 days	Tue 24/9/19	Fri 29/5/20	Tue 24/9/19	Fri 29/5/20		313	100%	24/9 29/5	
SUBA-07100	Prepare & submit approve Waste Management Plan		9 days	Mon 16/9/19	Tue 24/9/19	Mon 16/9/19	Tue 24/9/19 2		198	100%	16/9 24/9	
SUBA-07110	Approval of Waste Management Plan		119 days	Tue 24/9/19	Tue 21/1/20	Tue 24/9/19	Tue 21/1/20 19	7	313	100%	24/9 21/1	
SUBA-07120	Prepare & submit Environmental Management Plan		15 days	Mon 16/9/19	Mon 30/9/19	Mon 16/9/19	Mon 30/9/19 2		200	100%	16/9 30/9	
SUBA-07130	Approval of Environmental Management Plan		37 days	Mon 30/9/19	Wed 6/11/19	Mon 30/9/19	Wed 6/11/19 19	9	313	100%	30/9 6/11	
1 SUBA-07140	Prepare& submit for Temporary Drainage and Management Plan		201 days	Mon 16/9/19	Fri 3/4/20	Mon 16/9/19	Fri 3/4/20 2		202	100%	16/9 3/4	
2 SUBA-07150	Approval of Temporary Drainage and Management Plan		106 days	Fri 20/12/19	Fri 3/4/20	Fri 20/12/19	Fri 3/4/20 20	1	554	100%	20/12 3/4	
3 SUBA-08000	Prepare, submit & approve for the FSD submissions for CLP 132kV Substation		90 days			Wed 6/10/21	Mon 3/1/22			100%		6/10 3/1
4 SUBA-08010	Prepare and submit arrangement and schedule to FSD		30 days			Wed 6/10/21	Thu 4/11/21 20	5SS-1 emon		100%		6/10 4/11
5 SUBA-08020	FSD approve the arrangement and schedule		60 days	Fri 5/11/21	Mon 3/1/22	Fri 5/11/21	Mon 3/1/22 66		46FF,204SS-1 emon	100%		5/11 3/1
SUBA-09000	Trees Related Submissions		1590 days			Mon 16/9/19	NA	100 2 0110110	1011,20100 1011011	78%	16/9	22/1
7 SUBA-09010	Initial Tree survey and report submission		194 days		Tue 14/4/20	Fri 4/10/19	Tue 14/4/20 2		262	100%	4/10 14/4	
SUBA-09010 B SUBA-09020	Prepare and submit and approve the Method Statement of Erection of the protective fencing		26 days	Mon 16/9/19		Mon 16/9/19	Fri 11/10/19 2		262	100%	16/9 11/10	
SUBA-09030	Prepare and submit and approve the Method Statement of Erection of the professivation, Prunning works &		74 days			Fri 11/10/19	Mon 23/12/19 2		262.312	100%	11/10 23/12	
SUBA-09030 SUBA-09040	Submit Yearly Tree Risk Assessment and Inspection Report			Mon 16/9/19		Mon 16/9/19	Mon 23/12/19 2 NA 2		£U£,U1£	75%	16/9	22/1
							NA 2				20/9	1/11
1 SUBA-10000	Others Approval for Lighting Demousl at Portion C 1A of the Site from Llud				Tue 1/11/22	Fri 20/9/19			275	74%		1/11
2 SUBA-10010	Approval for Lighting Removal at Portion C-1A of the Site from Hyd		114 days		Fri 17/1/20	Thu 26/9/19	Fri 17/1/20 2		275	100%	26/9 17/1	
SUBA-10020	Prepare, submit & approve for commencement of Works near MTRCL protection zone at Sun Wan Road from		43 days		Fri 1/11/19	Fri 20/9/19	Fri 1/11/19 2		637	100%	20/9 1/11	116
4 SUBA-10030	Prepare, submit & approve for commencement Works along the riverbank by DSD		90 days			Wed 1/6/22	NA		624,625,627,626	30%	10/0	1/6 1/11
SUBP-00000	Procurement			Mon 16/9/19		Mon 16/9/19	NA			74%	16/9	19/3
SUBP-01000	Prepare and submit the Procurement Procedure		34 days	Mon 16/9/19	Sat 19/10/19	Mon 16/9/19	Sat 19/10/19 2		217	100%	16/9 19/10	
SUBP-02000	PM Review & Accept Procurement Procedure		0 days	Sat 19/10/19	Sat 19/10/19	Sat 19/10/19	Sat 19/10/19 21	6	218,235,239,240,241,245,263,2	100%	♦ 19/10	i
SUBP-03000	Pipe works material		1093 days	Fri 8/11/19	Fri 4/11/22	Fri 8/11/19	Fri 4/11/22 21	7		100%	8/11	4/11
SUBP-03010	Prepare & submit concrete pipe material particular		199 days	Tue 12/11/19	Thu 28/5/20	Tue 12/11/19	Thu 28/5/20 2		220	100%	12/11 28/5	
SUBP-03020	Approval of concrete pipe material		205 days			Thu 28/5/20	Sat 19/12/20 21	9	221	100%	28/5	19/12
SUBP-03030	Procurement, deliver & testing of concrete pipe material (1st batch)		0 days		Mon 25/11/19	Fri 8/11/19	Mon 25/11/19 22		553,554	100%		
SUBP-03040	Procurement, deliver & testing of concrete pipe material (remaining)		285 days	Mon 16/12/19		Mon 16/12/19	Mon 1/3/21	.0	330,334	100%	'	1/3
SUBP-03050	Prepare & submit ductile iron pipe material particular		-	Thu 19/12/19		Thu 19/12/19	Tue 17/3/20 2		224	100%	19/12 17/3	170
			90 days					0			17/3	
SUBP-03060	Approval of ductile iron pipe material		28 days			Tue 17/3/20	Tue 14/4/20 22		225	100%	_	
5 SUBP-03070	Procurement, deliver & testing of ductile iorn pipe material		0 days	Wed 18/12/19		Wed 18/12/19	Tue 21/1/20 22		007	100%	♦ 21/1	
SUBP-03080	Prepare & submit HDPE pipe material particular		127 days		Tue 26/5/20	Tue 21/1/20	Tue 26/5/20 2F	•	227	100%	21/1 26/5	
7 SUBP-03090	Approval of HDPE pipe material		21 days	Tue 26/5/20	Tue 16/6/20	Tue 26/5/20	Tue 16/6/20 22		228	100%	26/5 16/6	
SUBP-03100	Procurement, deliver & testing of HDPE pipe material		0 days	Fri 8/5/20	Mon 8/6/20	Fri 8/5/20	Mon 8/6/20 22	7		100%	♦ 8/6	
9 SUBP-03110	Prepare & submit stainless steel pipe material particular		37 days	Fri 10/6/22	Sat 16/7/22	Fri 10/6/22	Sat 16/7/22 2		230	100%		10/6 16/7
O SUBP-03120	Approval of stainless steel pipe material		21 days	Sun 17/7/22	Sat 6/8/22	Sun 17/7/22	Sat 6/8/22 22	9	231	100%		17/7 📕 6/8
1 SUBP-03130	Procurement, deliver & testing of stainless steel pipe material		90 days	Sun 7/8/22	Fri 4/11/22	Sun 7/8/22	Fri 4/11/22 23	0		100%		7/8 4/11
2 SUBP-03140	Prepare & submit mild steel steel pipe material particular		1 day	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19	Thu 19/12/19 2		233	100%	19/12 19/12	
3 SUBP-03150	Approval of mild steel pipe material		30 days	Thu 19/12/19	Sat 18/1/20	Thu 19/12/19	Sat 18/1/20 23	2	234	100%	19/12 18/1	
4 SUBP-03160	Procurement, deliver & testing of mild steel pipe material		133 days	Mon 9/12/19	Sat 30/5/20	Mon 9/12/19	Sat 30/5/20 23			100%	9/12 30/5	
5 SUBP-04000	Prefabricated steel reinforcement		-	vs Wed 16/10/19		Wed 16/10/19	Mon 3/8/20 21			100%	16/10	8
6 SUBP-04010	Prepare & submit steel reinforcement material particular		21 days	Wed 16/10/19		Wed 16/10/19	Sat 1/8/20 2F		237	100%	16/10 1/8	· · · · · · · · · · · · · · · · · · ·
7 SUBP-04020	Approval of prefabricated steel reinforcement material supplier		60 days		Sat 1/8/20	Fri 6/12/19	Sat 1/8/20 23		238	100%	6/12 1/8	
3 SUBP-04030	Procurement, deliver & testing of prefabricated steel reinforcement material		180 days		Mon 3/8/20	Tue 4/2/20	Mon 3/8/20 23		646,498,483,465,443,418,383,3	100%	4/2 3/8	
												· · · · · · · · · · · · · · · · · · ·
9 SUBP-05000	Prepare, submit and approve the water proofing material				Mon 15/6/20	Fri 5/6/20	Mon 15/6/20 21		360,383,646,404	100%	5/6 15/6	
O SUBP-06000	Prepare, submit and approve the concrete mix			Fri 6/12/19		Fri 6/12/19	Tue 2/6/20 21		360,383,646,404	100%	6/12 2/6	
1 SUBP-07000	Metal works material			s Mon 12/10/20		Mon 12/10/20	NA 21	7		70%	12/10	9/12
2 SUBP-07010	Prepare & submit Metal works material particular		-	Mon 12/10/20		Mon 12/10/20	Tue 12/4/22		243	100%	12/10	12/4
3 SUBP-07020	Approval of Metal works material		60 days	Wed 13/4/22		NA	NA 24		244	0%		13/4 11/6
4 SUBP-07030	Procurement, deliver & testing of Metal works material		-	Sun 12/6/22		NA	NA 24			0%		12/6 9/12
5 SUBP-08000	Prepare, submit and approve the ABWF works material			Sat 19/10/19		Sat 19/10/19	NA 21	7	302SS,345SS,371SS,391SS,40	62%	19/10	19/3
SUBP-08010	Prepare & submit Aluminium Feature Material		321 days	Fri 29/10/21	Thu 15/9/22	Fri 29/10/21	Thu 15/9/22		247	100%		29/10 15/9
7 SUBP-08020	Approval of Aluminium Feature Material		5 days	Fri 16/9/22	Tue 20/9/22	Fri 16/9/22	Tue 20/9/22 24	6	248	100%		16/9 20/9
SUBP-08030	Procurement, deliver & testing of Aluminium Feature Material		180 days	Wed 21/9/22	Sun 19/3/23	Wed 21/9/22	NA 24			0%		21/9 19/3
SUBP-08040	Prepare & submit Window Material		490 days			Sat 19/10/19	Fri 19/2/21		250	100%	19/10	19/2
SUBP-08050	Approval of Window Material		60 days		Tue 20/4/21	Sat 20/2/21	NA 24	9	251	0%	20	0/2 20/4
SUBP-08060	Procurement, deliver & testing of Window Material		180 days		Sun 17/10/21	NA	NA 25		-	0%		21/4 17/10
SUBP-08070	Prepare & submit Louver Material		510 days	Sat 19/10/19		Sat 19/10/19	Thu 11/3/21		253	100%	19/10	11/3
SUBP-08080	Approval of Louver Material		60 days		Mon 10/5/21	Fri 12/3/21	NA 25	2	254	0%		12/3 10/5
4 SUBP-08090	Procurement, deliver & testing of Louver Material		180 days			NA	NA 25			0%		11/5 6/11
5 SUBP-08100	Procurement, deliver & testing of Louver Material Prepare & submit Timber Door Material		114 days			Wed 14/10/20	Thu 4/2/21	v	256	100%	14/10	The state of the s
	·		-					-	256			4/2 5/2 ■ 5/4
SUBP-08110	Approval of Timber Door Material		60 days	Fri 5/2/21	Mon 5/4/21	Fri 5/2/21	NA 25		20/	0%	5	
7 SUBP-08120	Procurement, deliver & testing of Timber Door Material		180 days		Sat 2/10/21	NA O LOGINADO	NA 25		204	0%		6/4 2/10
SUBP-09000	Prepare, submit and approve the Irrigation System			Sat 29/10/22		Sat 29/10/22	NA 21		621	0%		29/10 5/2
SUBP-10000	Prepare, submit and approve the feature railing			Wed 7/12/22		Wed 7/12/22	NA 21	7	622	0%		7/12 16/3
CPW-00000	Site Preliminary Works			Mon 16/9/19		Mon 16/9/19	Thu 17/9/20			100%	16/9	17/9
CPW-01000	Mobilization for Hoarding		5 days		Tue 26/11/19	Thu 21/11/19	Tue 26/11/19 2		262	100%	21/11 26/11	
CPW-02000	Hoarding Erection at Portion C		0 days	Wed 27/11/19	9 Sat 29/2/20	Wed 27/11/19	Sat 29/2/20 26	1,207,208,209,263,163		100%	♦ 29/2	
CPW-03000	Project Signboard Erection		11 days	Sun 15/12/19	Mon 30/12/19	Sun 15/12/19	Mon 30/12/19 21	7	262	100%	15/12 30/12	
CPW-04000	Utility applications and Connection		87 days		Mon 30/12/19		Mon 30/12/19 2		265FF	100%	16/9 30/12	
CPW-05000	Construction of Site Accommodation in Works Area (MIC)		50 days	Wed 22/7/20		Wed 22/7/20	Thu 17/9/20 17	8.264FF.159		100%	22/7 1	7/9
CWPC-00000	* Construction Works of Portion C of the Site			vs Mon 16/9/19		Mon 16/9/19	NA NA	_,, ,		52%	16/9	11/
CUV1-00000					Thu 22/12/22	Mon 16/9/19	Thu 22/12/22				16/9	22/12
	* UV System No. 1 & Effluent Pumping Station No. 1 (1)		971 days							100%	Y	22/12
CUV1-01000	Preliminary Works	17.01	114 days			Mon 16/9/19	Tue 4/2/20	-	200 200	100%	16/9 4/2	!
CUV1-02000	Sheetpile Installation (FSP IV, 2200sq.m, 1 Rig)- stage 1	17, 21 23	97 days		Wed 6/5/20	Sat 4/1/20	Wed 6/5/20 27		280,282	100% 6.5,2.5,8	4/1 6/5	
CUV1-03000	Setting up plant for pre-bored socked H-pile Installation		0 days	Mon 4/5/20	Thu 7/5/20	Mon 4/5/20	Thu 7/5/20 27	7,280SS-5 days		100%	4/5 7/5	
CUV1-04000	Pre-bored Socketed H-Pile Installation (34 Nos, 1 Rig, 3days/rig/pile)	22, 33, 45 23, 24/27, 26, (10)	57 days	Thu 7/5/20	Tue 14/7/20	Thu 7/5/20	Tue 14/7/20 16	1,556,278	281,412,279SS-5 days	100% 40	7/5 14/7	7
1 CUV1-05000	Pile Loading Test	45, 46	26 days	Wed 15/7/20	Thu 13/8/20	Wed 15/7/20	Thu 13/8/20 28	0,400FS+5 days	433FS+5 days,282	100%	15/7 13	/8
CUV1-06000	Sheetpile Installation (FSP IV, 2200sq.m, 1 Rig)- stage 2	46, 257 26	22 days	Fri 14/8/20	Tue 8/9/20	Fri 14/8/20	Tue 8/9/20 28	•	283FS-10 days	100% 17	14/8 8	
3 CUV1-07000	ELS Works (incl. Strut (4-layers) Installation & Excavation (3,700 cu.m)	46, 257, 258, 26, (34)	48 days	Fri 28/8/20	Sat 24/10/20	Fri 28/8/20		9,164,163,282FS-10 days	284,285FF-2 emons	100% 8	28/8	
	Additional Sump Pits	258, (92), (112) (77)	70 days	Mon 26/10/20		Mon 26/10/20	Tue 19/1/21 28		288	100% 15,2	26/10	
CUV1-08000		, (<i>UL)</i> , (11L) (11)	, u uayo	1410/120/10/20	140 10/1/21	WUII 20/10/20	100 10/1/21 20	~	200	100/010,2		
CUV1-08000 CUV1-08900	Receiving of Civil Requirements from PM	(275), (366)	1 day	Tue 25/8/20	Tue 05/0/00	Tue 25/8/20	Tue 25/8/20 28	OFF 0 amazz	286SS-2 emons	100%	25/8 25	5/0



		and 132kV Primary Substation										KL-CW JV
Activity ID	KD		Inclement Weather CE no. (NCE no.)		Duration	Start	Finish	Actual Start	Actual Finish Predecessors	Successors	% Time Complete Risk Allowan	2020 2022 2024 2 H1
CUV1-09000		R.C. Structure (370sq.m) - Revised Structural Layout		288	142 days	Mon 16/11/20	Wed 12/5/21	Mon 16/11/20	Wed 12/5/21 165,285SS-2 emons		100%	16/11 12/5
UV1-09010		Below Ground Level Stage no.1 @ -1.10mPD			54 days	Mon 16/11/20		Mon 16/11/20	Wed 20/1/21		100% 5	16/11 20/1
JV1-09011 JV1-09012					15 days 39 days	Mon 16/11/20 Thu 3/12/20	Wed 2/12/20 Wed 20/1/21	Mon 16/11/20 Thu 3/12/20	Wed 2/12/20 284 Wed 20/1/21 288.167	289 291SS+30 days	100%	16/11 ■ 2/12 3/12 ■ 20/1
JV1-09012 JV1-09020		Below Ground Level Stage no.2 @ +1.50mPD	(112)	1 7 1 7 1 7 1	42 days	Mon 11/1/21	Wed 20/1/21	Mon 11/1/21	Wed 3/3/21	29155+30 days	100%	11/1 📺 3/3
IV1-09021		Base slab Construction (170sq.m)			15 days	Mon 11/1/21	Wed 27/1/21	Mon 11/1/21	Wed 27/1/21 289SS+30 days	292	100%	11/1 27/1
JV1-09022		Walls and Slabs Construction @+1.5mPD to +4.9mPD [Additional CHA & CHL puddle (DN350), Additional CHLA		(38), (46), (100), (108), (114), (115),		Thu 28/1/21	Wed 3/3/21	Thu 28/1/21	Wed 3/3/21 291,167	294SS+14 days,557	100% 33	28/1 3/3
UV1-09030		Below Ground Level Stage no.3 @ +3.80mPD			44 days	Mon 25/1/21	Fri 19/3/21	Mon 25/1/21	Fri 19/3/21		100% 5	25/1 📺 19/3
UV1-09031		Base slab Construction (15 sq.m + 40 sq.m) (NCE no. 0083,114)				Mon 25/1/21	Fri 26/2/21	Mon 25/1/21	Fri 26/2/21 292SS+14 days	295	100% 14	25/1 26/2
CUV1-09032		Walls and Slabs Construction @+3.80mPD to +7.4mPD [CHAW puddle (DN1200-> DN1400), CHBA puddle (DN		(38), (46), (100), (108), (115), (120),		Sat 6/2/21	Fri 5/3/21	Sat 6/2/21	Fri 5/3/21 167,294	296,298	100% 21	6/2 5/3
CUV1-09033 CUV1-09040		Extraction of Sheetpiles Above Ground Level @ +7.4mPD	338		12 days	Sat 6/3/21 Sat 20/3/21	Fri 19/3/21 Wed 12/5/21	Sat 6/3/21 Sat 20/3/21	Fri 19/3/21 295 Wed 12/5/21		100% 100% 4	6/3 19/3 20/3 12/5
CUV1-09041	KD1A	Walls, Slabs and staircase Construction @+7.4mPD to 16.4mPD [Additional SP1-3 puddle (DN100 x 2 & DN80)	(204) (228)		41 days 41 days	Sat 20/3/21 Sat 20/3/21	Wed 12/5/21 Wed 12/5/21	Sat 20/3/21 Sat 20/3/21	Wed 12/5/21 Wed 12/5/21 295	301,302,300,304	100% 4	20/3 12/5
CUV1-10000	KD1A		(204),(228)	1 11 11 11 11 11 1	51 days	Tue 23/3/21	Wed 12/5/21	Tue 23/3/21	Wed 12/5/21	001,002,000,004	100%	23/3 12/5
CUV1-10900	1.5 1.7	Additional slab and beam for external staircase			26 days	Mon 12/4/21	Wed 12/5/21	Mon 12/4/21	Wed 12/5/21 298	589	100%	12/4 12/5
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%	♦ 12/5
CUV1-12000	SW1	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining			256 days	Tue 18/5/21	Fri 25/3/22	Tue 18/5/21	Fri 25/3/22 245SS,168SS,298	622,623,303,621	100%	18/5 25/3
CUV1-12050		Remaining ABWF Works			214 days	Sat 26/3/22	Wed 26/10/22	Sat 26/3/22	Wed 26/10/22 302	307FF	100%	26/3 26/10
CUV1-12100		Underground Utilities Works in related to Effluent Chamber			97 days	Thu 13/5/21	Mon 6/9/21	Thu 13/5/21	Mon 6/9/21 298	305FS+1 day	100%	13/5 6/9 7/9 25/3
CUV1-12200 CUV1-12300	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 48FF	100%	26/3 26/3 22/12
CUV1-12300 CUV1-12500	SW4	Remaining Works for underground pipe works Underground utilities works - Revised Cable Ducts plan			271 days 47 days	Sat 26/3/22	Thu 22/12/22 Wed 26/10/22	Sat 26/3/22	Thu 22/12/22 305 NA 303FF	48FF	100%	20/3
CUV1-13000	SW5	Surrounding Site formation works and road works		310, 270,213,240,207	180 days	Thu 21/12/23	Sat 10/8/24	NA	NA 347FF	48FF	0%	
CSDC-00000	*	Sludge Digesters and Distribution Chamber (4)				s Sat 7/12/19	Sat 10/8/24	Sat 7/12/19	NA NA		64%	7/12
CSDC-01000		Site Clearance & Site Set Up			6 days		Fri 13/12/19	Sat 7/12/19	Fri 13/12/19 311SF		100%	7/12 13/12
CSDC-02000		Trial Pit Excavation & UU Detection Works			6 days	Sat 14/12/19		Sat 14/12/19	Fri 20/12/19 313SF	310SF	100%	14/12 20/12
SDC-03000			21, 22, 33, 45,	(50), (51)	120 days	Fri 24/4/20	Tue 15/9/20	Fri 24/4/20	Tue 15/9/20 209	326FS-8 days	100%	24/4 15/9
CSDC-04000		Predrilling Works (50no., 4rig, 3 days/drillhole/rig) - Change to Work Information		(10)	10 days	Sat 28/12/19	Thu 9/1/20	Sat 28/12/19	Thu 9/1/20 160,177,188,189,190,192,191,		100%	28/12 9/1
CSDC-05000		Installation of Monitoring Points			0 days	Thu 19/12/19		Thu 19/12/19	Thu 19/12/19 313	317	100%	♦ 19/12 15/1 - 7/2
CSDC-06000 CSDC-07000		Sheetpile Installation- original		` '	24 days 6 days	Wed 15/1/20 Mon 3/2/20	Fri 7/2/20 Sat 8/2/20	Wed 15/1/20 Mon 3/2/20	Fri 7/2/20 Sat 8/2/20	317	100%	15/1 ■ 7/2 3/2 8/2
CSDC-07000 CSDC-08000		Setting up plant for pre-bored socked H-pile Installation Pre-bored Sockedted H-Pile Installation (127nos, 3rig, 3days/rig/pile) (NCE no. 18A.25)	17, 21, 22, 33		69 days	Mon 3/2/20 Sat 8/2/20	Sat 8/2/20 Fri 5/6/20	Mon 3/2/20 Sat 8/2/20	Sat 8/2/20 Fri 5/6/20 161,314,319SS+20 days,316	317	100%	8/2 8/2
CSDC-08000 CSDC-09000		1 1 0 7 0 7 7	46, 257, 333	. ,	26 days	Fri 7/8/20	Sat 5/9/20	Fri 7/8/20	Sat 5/9/20 317,433SS+10 days	326	100%	7/8 5/9
CSDC-10000		· ···· • • · · · · · · · · · · · · · ·	-1 - 1		152 days	Mon 4/5/20	Mon 2/11/20	Mon 4/5/20	Mon 2/11/20 313	317SS+20 days,401FS+8	100%	4/5 2/11
CSDC-10900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21 326FF-2 emons	327SS-2 emons	100%	15/6 15/6
CSDC-11015		Construction of Distribution Chamber			320.8 days	Wed 3/11/21	Mon 19/9/22	Wed 3/11/21	Mon 19/9/22		100%	3/11 19/9
CSDC-11015a		Construction of Distribution Chamber up to G/F		(232), (233), (234), (429), 385, 413,	-	Wed 3/11/21	Fri 15/7/22	Wed 3/11/21	Fri 15/7/22 326SS+365 days	495SS+30 days,331,345FS+		3/11 15/7
CSDC-11015b		Construction of Distribution Chamber up to 1/F	(204), (228)	(232), (233), (234), (429), 385, 413,	-	Sat 16/7/22	Tue 30/8/22	Sat 16/7/22	Tue 30/8/22 322	333FS+61 days,324FS+14	100%	16/7 30/8
CSDC-11015c		Removal of propping and formwork			6 days	Wed 14/9/22	Mon 19/9/22	Wed 14/9/22	Mon 19/9/22 323FS+14 days	335	100%	14/9 19/9
CSDC-11000a CSDC-11010		Construction of Digestors ELS Works (incl. Strut (4-layers) Installation & Excavation (17,600 cu.m))	(440) 000 000	(125), (232), (233), (234), (364), (41 3 (153), (76), (99), (94)	88 days	Tue 3/11/20 Tue 3/11/20	Fri 2/9/22 Fri 26/3/21	Tue 3/11/20 Tue 3/11/20	Fri 2/9/22 319 Fri 26/3/21 179,164,318,163,312FS-8 days	436	100% 100% 2.3	3/11 26/3
CSDC-11016		Construction of Digesters tank No.1,2,3,4 (Wall Portion)		(76), (413), (419), (125), (306), (233		Sat 27/3/21	Thu 28/4/22	Sat 27/3/21	Thu 28/4/22 326,238,167,320SS-2 emons	328FS-50 days,441FS+8 day		27/3
CSDC-11020a		Construction of the Roof Slab of SD No.1		(76), (413), (419), (125), (306), (233		Mon 28/2/22	Wed 27/7/22	Mon 28/2/22	Wed 27/7/22 327FS-50 days	344,329SS+21 days,406FS-3		28/2 27/7
CSDC-11020b		Construction of the Roof Slab of SD No.3, No.4		(76), (413), (419), (125), (306), (233		Mon 21/3/22	Fri 26/8/22	Mon 21/3/22	Fri 26/8/22 328SS+21 days	330SS+50 days,334FS+20 da		21/3 26/8
CSDC-11020d		Construction of the Roof Slab of SD No.2		(76), (413), (419), (125), (306), (233		Tue 10/5/22	Fri 2/9/22	Tue 10/5/22	Fri 2/9/22 329SS+50 days	331,535FS+16 days	100%	10/5 2/9
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%	♦ 2/9
CSFC-12010		Construction of Overflow Chamber No.1 to No.4			25 days	Wed 23/11/22		Wed 23/11/22	Sat 17/12/22 334	336FS+30 days	100%	23/11 17/12
CSDC-12050		Removal of ELS within Distribution Chamber			36 days	Sat 12/11/22		Sat 12/11/22	Fri 23/12/22 323FS+61 days	46FF	100%	12/11 23/12
CSDC-11017		Water-tightness Test for Sludge Digester No.1 to No.4			53 days	Tue 20/9/22 Wed 23/11/22	Tue 22/11/22	Tue 20/9/22	Tue 22/11/22 329FS+20 days	337,341FS+4 days,345,335,3 46FF,338FS+30 days	332 100% 0%	20/9 <u>22/11</u> 23/11 9/1
CSDC-11017b CSDC-11017c		Water-tightness Test for 2nos. of Digested Sludge Buffer Tanks Water-tightness Test for Overflow Chamber No.1 to No.4			48 days 50 days	Tue 17/1/23	Tue 7/3/23	Wed 23/11/22 NA	NA 334,324 NA 332FS+30 days	46FF.339	0%	17/1 7/3
CSDC-11017C		Apply Internal Anti-corrosion Protective Lining for Sludge Digester No.1 to No.4		594	30 days		Thu 29/12/22	Wed 23/11/22		46FF	100%	23/11 29/12
CSDC-11018b		Apply Internal Anti-corrosion Protective Lining for 2nos. Of Digested Sludge Buffer Tanks			30 days		Fri 10/3/23	NA	NA 335FS+30 days	46FF	0%	9/2 10/3
CSDC-11018c		Apply Internal Anti-corrosion Protective Lining for Overflow Chamber No.1 to No.4			30 days	Wed 8/3/23	Thu 6/4/23	NA	NA 336	46FF	0%	8/3 6/4
CSDC-11050		Backfill and Removal of ELS			123 days	Wed 23/11/22		Wed 23/11/22	NA 334	478FS-35 days,492FS-28 day	, .	23/11 25/3
CSDC-11030d		Dismantle Scaffolding			15 days		Wed 14/12/22	Mon 28/11/22	,	544FS-38 days,473,532SS+5		28/11 1/12
CSDC-12050 CSDC-13000	SW3	Civil & Structural works at G/F			45 days		Sun 23/4/23	NA NA	NA 340FF+29 days	46FF,343FF	0%	10/3 = 23/4
CSDC-13000 CSDC-14000		Drainage System (within Bldg/ Structure) Installation FRP Walkway & Micellanous Installation			86 days 60 days	Thu 5/1/23 Thu 28/7/22	Sun 23/4/23 Sat 8/10/22	Thu 28/7/22	NA 342FF Sat 8/10/22 328	46FF	0% 100%	5/1 23/4 28/7 8/10
CSDC-14000 CSDC-15000	SW3	ABWF Works & BS Works		(173),594	127 days	Wed 23/11/22		Wed 23/11/22	NA 245SS,168SS,322FS+15 days,		0%	23/11 29/3
CSDC-15500	SW4	Surrounding sewerage, utility and process pipe works		1 //	131 days	Thu 15/12/22		Thu 15/12/22	NA 341	47FF,622FF,623FF,347,541F		15/12 30/5
CSDC-16000	SW5	Surrounding Site formation works and road works			350 days	Wed 31/5/23		NA	NA 346	48FF,373FF,393FF,407FF,42	.,	31/5 10/8
CSDB-00000	*	Sludge Dewatering Building (2)			875.8 days	? Tue 26/11/19	Wed 9/11/22	Tue 26/11/19	NA		68%	
CSDB-01000		Site Clearance & Site Set Up			6 days	Tue 26/11/19		Tue 26/11/19		350	100%	26/11 2/12
CSDB-02000		Predrilling Works (39no.4rig, 3days/drillhole/rig) - Change to Work Information (Additional Predrill and Steel H-Pile)		` '	20 days	Thu 28/11/19		Thu 28/11/19	Fri 20/12/19 160,349	352,351	100%	28/11 20/12
CSDB-03000		Additional Predrilling Works (11no.)			8 days	Mon 23/12/19		Mon 23/12/19	Mon 30/12/19 350	352	100%	23 12 30/12
CSDB-04000 CSDB-05000		Installation of Monitoring Points Sheet Pile Installation - Original	17		4 days		Tue 14/1/20	Fri 10/1/20	Tue 14/1/20 350,351	357FS-3 days,353 355,354	100%	10/1 14/1 15/1 == 6/3
CSDB-05000 CSDB-06000			17		52 days 5 days	Wed 15/1/20 Sat 7/3/20	Fri 6/3/20 Thu 12/3/20	Wed 15/1/20 Sat 7/3/20	Fri 6/3/20 352 Thu 12/3/20 353	355,354 355	100%	7/3 12/3
CSDB-06000 CSDB-07000		3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	17, 21, 22, 33		67 days	Fri 13/3/20	Fri 5/6/20	Fri 13/3/20	Fri 5/6/20 161,354,353	398.356	100%	13/3 5/6
CSDB-07000 CSDB-08000			33, 45	. ,	20 days	Tue 30/6/20	Thu 23/7/20	Tue 30/6/20	Thu 23/7/20 355	358	100%	30/6 23/7
CSDB-09000		· ·			295 days	Tue 3/12/19	Mon 30/11/20	Tue 3/12/19	Mon 30/11/20 352FS-3 days	358	100% 56	3/12 30/11
CSDB-10000		ELS Works (incl. Strut (3-layers) Installation & Excavation (25,000 cu.m)) - Change to Work Information / Removal of	258, (92), (112)	239, (40), (113), (153), (183),	55 days	Tue 1/12/20	Fri 5/2/21	Tue 1/12/20	Fri 5/2/21 179SS,164SS,356,163SS,357			1/12 5/2
CSDB-10900		Receiving of Civil Requirements from PM		(187), (319)	1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21 358FF-2 emons	360SS-2 emons	100%	15/6 15/6
CSDB-11000		R.C. Structure		438, (123), (183), (184), (187), (53),	-	Sat 6/2/21	Mon 25/7/22	Sat 6/2/21	Mon 25/7/22 239,240,358,238,359SS-2 emo		100% 10	6/2 25/7
CSDB-11010 CSDB-11020		Basement Construction & external waterproofing works - (Additional Sump Pit, wall layout, revised GA/Framing Ground Floor Construction @ +7.55mPD - Change to Work Information (Revised Layout)		239, (53), (110), (113), (115), (123), (354), (187), (465), 465, (468),468,		Sat 6/2/21 Fri 30/7/21	Sat 16/10/21 Sat 30/10/21	Sat 6/2/21 Fri 30/7/21	Sat 16/10/21 358 Sat 30/10/21 361FS-90 days	381,362FS-90 days 365,363SS	100% 30 100%	6/2 16/10 30/7 30/10
CSDB-11020 CSDB-11030		Erect, maintain and dismantle the Additional Metal Scaffolding		(354), (187), (465), 465, (468),468, 4	60 days	Fri 30/7/21	Mon 27/9/21	Fri 30/7/21	Mon 27/9/21 362SS	364SS	100%	30/7 27/9
CSDB-11030		Deploy one lifting plant (max. lifting capacity approx. 100tons)		596	180 days	Fri 30/7/21	Tue 25/1/22	Fri 30/7/21	Tue 25/1/22 363SS	00-100	100%	30/7 25/1
CSDB-11050		1/F Construction @ +15.3mPD - Change to Work Information (Revised Layout)		(402), (414), (428), (446), (187), (41		Mon 1/11/21	Sat 12/3/22	Mon 1/11/21	Sat 12/3/22 362	366,368	100%	1/11 12/3
CSDB-11060		Roof Construction @ +25.65mPD		(450), 450	107 days	Mon 14/3/22	Mon 25/7/22	Mon 14/3/22	Mon 25/7/22 365	367,619FS+120 days,371SS-		14/3 25/7
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%	♦ 7/6
CSDB-12100		Dismantle of Scaffolding			46 days	Mon 8/8/22	Fri 23/9/22	Mon 8/8/22	Fri 23/9/22 367FS+62 days,365,366	369,372SS,437FS+58 days,4		8/8 23/9
CSDB-12200		Backfill and Removal of ELS			72 days	Thu 22/9/22	Fri 16/12/22	Thu 22/9/22	Fri 16/12/22 368	520,372SS-45 days,437SS+1		22/9 16/12
CSDB-13000	01110	Drainage System (within Bldg/ structure) installation			316 days	Wed 8/6/22	Thu 20/4/23	Wed 8/6/22	NA 367	1055	40%	20/4
CSDB-14000	SW3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining			288 days	Sat 30/4/22	Fri 18/8/23	Sat 30/4/22	NA 245SS,168SS,366SS+37 days		10%	30/4 12/9 4/2
CSDB-14500 CSDB-15000	SW4 SW5	Surrounding sewerage, utility and process pipe works Surrounding Site formation works and road works		(335),(53),219,248,205,206,207	167 days 180 days	Fri 12/8/22 Tue 13/2/24	Sat 4/3/23 Sat 10/8/24	Fri 12/8/22 NA	NA 368SS,369SS-45 days NA 347FF	47FF,622FF,623FF,621FF 48FF,621FF,622FF,623FF	30% 0%	12/8 4/3
CSDB-15000 CHPB-00000	*	Combined Heat Power Building (3)				rue 13/2/24		Tue 10/12/19	NA 34/FF	7011,021FF,022FF,023FF	51%	10/8
CHPB-00000 CHPB-01000		Site Clearance & Site Set Up			6 days	Tue 10/12/19		Tue 10/12/19	Mon 16/12/19 2,376SF		100%	10/12 16/12
		Predrilling Works (15no. 2rig, 3days/drillhole/rig) - Change to Work Information (Additional Predrill and Steel H-Pile)		(10)	15 days	Tue 10/12/19		Tue 10/12/19	Sat 28/12/19 160FS+28 days	377,375SF	100%	10/12 28/12
CHPB-02000							Tue 7/1/20	Fri 3/1/20	Tue 7/1/20 376	379	100%	3/1 7/1



Activity ID	KD Ta	Name	Inclement Weather CE no. (NCE	± но. (INCE ПО.)	Duration	Siari	Finish	Actual Start	Actual Finish Predec	essurs	Successors %	6 Time Complete Risk Allowan	2020	2022 2024
OLIDD C 1000			no.)		0.4	M 0/2 '	T 44/4/65	141 1 2000	T 4.1/4.105		070		H1 H1	2022 H1
CHPB-04000 CHPB-05000		Setting up plant for pre-bored socked H-pile Installation	47.04 (40) (40)		6 days		Tue 14/1/20	Wed 8/1/20	Tue 14/1/20		379 380	100%	8/1 14/1 15/1 21/4	i
CHPB-05000 CHPB-06000			17, 21 (10), (420)		77 days	Wed 15/1/20		Wed 15/1/20	Tue 21/4/20 161,377		380	100% 6	29/7 1/8	
HPB-07000		Pile Loading Test Excavation for Pile Cap (2,060 cu.m)	(202) (205)), (295), (420), (430), (95	4 days	Wed 29/7/20 Sat 6/11/21	Sat 1/8/20 Sat 15/1/22	Wed 29/7/20 Sat 6/11/21	Sat 1/8/20 379 Sat 15/1/22 179,164		383,382FF-2 emons	100%	29/1 1/6	6/11 15/1
1PB-07900		Receiving of Civil Requirements from PM	(302), (303)), (295), (420), (430), (95		Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21 381FF-2		383SS-2 emons	100% 10	16	6/7 16/7
IPB-07900 IPB-08000		• •	(20E) (416)	\ (417\ (410\ (246\ (42	1 day			Tue 28/12/21		166,381,238,382SS-2 emor		100% 10	10	28/12 26/10
		R.C. Structure - update on Civil Requirement & Change to the Works Information	(295), (416)), (417), (418), (346), (43							385	100% 10		28/12 14/5
HPB-08100		Lower Ground Floor @+7.55mPD - Change to the Works Information (Additional RC Beam and Revised Detail for	295		109 days	Tue 28/12/21		Tue 28/12/21	Sat 14/5/22		000	100%		1/5
HPB-08200		Upper Ground Floor @13.05mPD			60 days	Sun 1/5/22	Thu 14/7/22	Sun 1/5/22	Thu 14/7/22 384		386FS-10 days			
HPB-08300		First Floor @19.60mPD			47 days	Thu 14/7/22		Thu 14/7/22	Tue 6/9/22 385FS-1		387FS-14 days	100%		14/7 6/9
HPB-08400		Podium @24.15mPD			40 days			Mon 22/8/22	Mon 10/10/22 386FS-1	,	388FS-14 days	100%		22/8 10/10
HPB-08500		Roof @27.15mPD			29 days		Wed 26/10/22	Wed 21/9/22	Wed 26/10/22 387FS-1		389,391FS-15 days,499	100%		21/9 26/10
HPB-09000	KD3C	Allow access to Contractor DE/2018/03 for E&M Installation			0 days		Wed 26/10/22	NA NA	NA 388		40FF,392FS-17 days	0%		♦ 26/10
HPB-10000		Drainage System (within Bldg/ Structure) Installation			166 days		Mon 10/4/23	Thu 27/10/22	NA 383		46FF	20%		27/10 10/4
IPB-11000	SW3	ABWF Works & BS Works with additional/change to works information	(173)		156 days	Mon 10/10/22		Mon 10/10/22			46FF	20%		10/10 20/4
PB-11500	SW4	Surrounding sewerage, utility and process pipe works	221,219,220	0,248,205,206	98 days	Fri 7/10/22	Sat 4/2/23	Fri 7/10/22	NA 389FS-1	,	47FF,622FF,623FF,621FF	20%		7/10 4/2
HPB-12000	SW5	Surrounding Site formation works and road works						NA	NA 347FF		48FF,621FF,622FF,623FF	0%		13/2 10/8
CSPS-00000	*	Sewage Pumping Station (9)			1395.8 day	s Fri 15/11/19		Fri 15/11/19	NA			62%	15/11	10/8
CSPS-01000		Site Clearance & Site Set Up				Fri 15/11/19	Sat 30/11/19	Fri 15/11/19	Sat 30/11/19 2		396	100%	15/1 1 30/11	
CSPS-02000		Predrilling Works (4no.1rig, 3days/drillhole/rig)			0 days	Mon 2/12/19	Mon 30/12/19	Mon 2/12/19	Mon 30/12/19 160FS+	14 days,395	397	100%	♦ 30/12	
CSPS-03000		Installation of Monitoring Points			4 days	Fri 17/4/20	Tue 21/4/20	Fri 17/4/20	Tue 21/4/20 396			100%	17/4 21/4	
CSPS-04000			25		5 days	Tue 21/4/20	Sat 25/4/20	Tue 21/4/20	Sat 25/4/20 355		399	100%	21/4 25/4	
CSPS-05000			21, 22		27 days	Mon 27/4/20	Fri 29/5/20	Mon 27/4/20	Fri 29/5/20 161,398		400	100% 6	27/4 29/5	
CSPS-06000			33, 45		11 days	Sat 27/6/20	Fri 10/7/20	Sat 27/6/20	Fri 10/7/20 399,414	FS+5 days	402,281FS+5 days,401	100%	27/6 1 10/7	
CSPS-07000		Sheet Pile Installation	258		0 days	Sat 10/10/20	Sat 10/10/20	Sat 10/10/20	Sat 10/10/20 400,319	FS+8 days	402	100%		
CSPS-08000		ELS Works (incl. Strut (3-layers) Installation & Excavation (1,440 cu.m))	(92)		56 days	Wed 18/11/20	Mon 25/1/21	Wed 18/11/20	Mon 25/1/21 179,164	400,163,401	403FF-2 emons,404	100% 10	18/11 25	
CSPS-08900		Receiving of Civil Requirements from PM			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21 402FF-2	emons	404SS-2 emons	100%	15/6	6 15/6
CSPS-09000	KD3E	R.C. Structure & waterproofing works - Change to Work Information (Additional Puddle Flange and Civil Provision)	268, 338, (204), (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 emor	405,42FF	100%	26/1	26/1
CSPS-10000	SW3	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining	7.17.17.1	. ,	250 days	Tue 3/5/22	Thu 20/4/23	Tue 3/5/22			46FF	36% 3		3/5 20/4
CSPS-10500	SW4	Surrounding sewerage, utility and process pipe works	386, 299		45 days	Mon 13/6/22		Mon 13/6/22	Thu 4/8/22 328FS-3		47FF,622FF,623FF,424FS-4 da	100%		13/6 4/8
CSPS-11000	SW5	Surrounding Site formation works and road works			-	Tue 13/2/24	Sat 10/8/24	NA	NA 347FF	,	48FF,621FF,622FF,623FF	0%		13/2 10/8
CWS2-00000	*	Workshop No. 2 (5)			,	s Tue 24/12/19		Tue 24/12/19	NA NA		,. ,	76%	24/12	10/8
CWS2-01000		Site Clearance & Site Set Up			3 days			Tue 24/12/19	Sat 28/12/19 2		410	100%	24/12 28/12	
CWS2-01000 CWS2-02000		Predrilling Works (10no.1rig, 3days/drillhole/rig)	16, (10)		8 days	Thu 2/1/20	Fri 10/1/20	Thu 2/1/20	Fri 10/1/20 160,409		411	100%	2/1 10/1	
CWS2-02000 CWS2-03000		Installation of Monitoring Points	10, (10)		4 days	Tue 25/2/20	Fri 28/2/20	Tue 25/2/20	Fri 28/2/20 410		413.412	100%	25/2 28/2	İ
CWS2-03000 CWS2-04000		·	17		0 days	Tue 10/3/20	Tue 17/3/20	Tue 10/3/20	Tue 17/3/20 411,280		413,412	100%	♦ 17/3	
CWS2-05000		Pre-bored Socketed H-Pile Installation (36 Nos, 2 Rig, 3days/rig/pile)	17, 21, 22, 33 (10)		64 days	Wed 18/3/20		Wed 18/3/20	Sat 6/6/20 161,411		414.432	100%	18/3 6/6	
CWS2-06000		Pile Loading Test	33			Sun 7/6/20	Fri 26/6/20	Sun 7/6/20	Fri 26/6/20 413,641		415,400FS+5 days	100%	7/6 26/6	
CWS2-06000 CWS2-07000					16 days	Thu 31/12/20			Thu 28/1/21 179,164		418,583,434,416FF-2 emons	100% 56	31/12 28	1/4
CWS2-07000 CWS2-07900		Excavation for Pile Cap (1,800 cu.m) - Change to Work Information (Revised Layout of Foundation) Receiving of Civil Requirements from PM	268, 338 (169), (85) 548, 557 , (24 days		Mon 21/6/21	Thu 31/12/20	Mon 21/6/21 415FF-2		417SS-2 emons	100% 56	_	6 21/6
		• •			1 day	Mon 21/6/21		Mon 21/6/21			41755-2 emons			
CWS2-08000		R.C. Structure		(85), (169), (185), (195),		Tue 16/3/21	Sat 20/11/21	Tue 16/3/21	Sat 20/11/21 416SS-2		440	100% 10		20/11
CWS2-08010		Ground Floor Construction @ +6.30mpD - Revised Civil Requirements in G/F), (195), (217), (223), (22	-	Tue 16/3/21	Sat 28/8/21	Tue 16/3/21	Sat 28/8/21 415,238		419	100%		28/8
CWS2-08020	MDCD	First Floor Construction @ +13.50mpD - Revised Civil Requirements in 1/F	(266), (299)), (300)	55 days	Mon 30/8/21	Thu 4/11/21	Mon 30/8/21	Thu 4/11/21 418		420	100%		30/8 4/11
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%		5/11 20/11
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 20/11/21 420		41FF,422	100%		♦ 20/11
2 CWS2-10000		Drainage System (within Bldg/ Structure) Installation	(265), 366			Mon 22/11/21		Mon 22/11/21	NA 421		46FF	85%		22/11 10/2
3 CWS2-11000	SW3	ABWF Works & BS Works - Revised Architectural Layout & Schedule for Doors, Louvers and Windows			415 days	Mon 22/11/21		Mon 22/11/21	NA 245SS,1		46FF	80%		22/11 20/4
4 CWS2-11500	SW4	Surrounding sewerage, utility and process pipe works	221,219,220	0,205,206,207			Sat 17/9/22	Mon 1/8/22	Sat 17/9/22 406FS-4		47FF,622FF,623FF,447FS+34 (100%		1/8 17/9
CWS2-12000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA 347FF		48FF,621FF,622FF,623FF	0%		13/2 10/8
CTHP-00000	*	Thermal Hydrolysis Pretreatment (6)			1366.8 day	s Thu 19/12/19	Sat 10/8/24	Thu 19/12/19	NA			33%	19/12	10/8
7 CTHP-01000		Site Clearance & Site Set Up			18 days	Thu 19/12/19	Sat 11/1/20	Thu 19/12/19	Sat 11/1/20 2		428,429	100%	19/12 11/1	
CTHP-02000		Predrilling Works (3no.1rig, 3days/drillhole/rig)	21/24, (10)		1 day	Fri 10/1/20	Mon 13/1/20	Fri 10/1/20	Mon 13/1/20 160FS+	24 days,427	430	100%	10/1 13/1	
OTHP-03000		Additional Predrilling Works (4no.)	(12)		1 day	Fri 10/1/20	Mon 13/1/20	Fri 10/1/20	Mon 13/1/20 427		430	100%	10/1 13/1	
CTHP-04000		Installation of Monitoring Points			6 days	Fri 1/5/20	Fri 8/5/20	Fri 1/5/20	Fri 8/5/20 428,429		432	100%	1/5 8/5	
CTHP-05000		Setting up plant for pre-bored socked H-pile Installation	22		5 days	Tue 12/5/20	Sat 16/5/20	Tue 12/5/20	Sat 16/5/20		432	100%	12/5 16/5	
CTHP-06000		Pre-bored Socketed H-Pile Installation (15 Nos, 1 Rig, 3days/rig/pile)	22, 33 (10)		30 days	Mon 18/5/20	Sat 20/6/20	Mon 18/5/20	Sat 20/6/20 161,430	431,413	433	100% 6	18/5 20/6	
CTHP-07000			45, 46, 257		25 days	Mon 27/7/20	Fri 11/9/20	Mon 27/7/20	Fri 11/9/20 432,281	FS+5 days	434,318SS+10 days	100%	27/7 ■ 11/9	
CTHP-08000		Excavation for Pile Cap (160 cu.m)	225, (70), (7	75)	12 days		Mon 2/11/20	Mon 19/10/20	Mon 2/11/20 179,164		436,435FF-2 emons	100%	19/10 2/11	
CTHP-08900		Receiving of Civil Requirements from PM	(270)		1 day			Tue 15/6/21	Tue 15/6/21 434FF-2		436SS-2 emons	100%	_	6 15/6
CTHP-09000	KD3E, SW3	· · · · · · · · · · · · · · · · · · ·	268, 338 225, (115),((236)	0 days		Mon 2/11/20	Mon 2/11/20	Mon 2/11/20 434,325		42FF,46FF	100%	10/0	·
CTHP-09500	SW4	Surrounding sewerage, utility and process pipe works	_30, 000 220, (110),(()		Fri 2/12/22	Tue 3/1/23	Fri 2/12/22			47FF.622FF.623FF.621FF	0%		2/12 3/1
CTHP-09300 CTHP-10000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA 347FF	,	48FF,621FF,622FF,623FF	0%		13/2 10/8
CFCD-00000	\$W5	Ferric Chloride Dosing Facilities (10)			-	Tue 13/2/24		Tue 15/6/21	NA 347FF		7011,02111,02255,02355	33%	15/6	
CFCD-00000		Excavation & ELS for Raft Footing (105 cu.m)					Fri 8/7/22	Thu 2/6/22	NA Fri 8/7/22 441		443	100%	15/0	2/6 8/7
CFCD-01000 CFCD-02000		Plate Load Test			30 days	Thu 2/6/22 Tue 10/5/22	Sat 28/5/22	Tue 10/5/22	Sat 28/5/22 327FS+		443,442FF-2 emons,440	100%		10/5 28/5
		Receiving of Civil Requirements from PM			19 days							100%	150	10/5 2 8/5 6 15/6
CFCD-02900		3			1 day	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21	Tue 15/6/21 441FF-2		443SS-2 emons		15/6	
CFCD-03000		R.C. Structure Stool Boof Structure (Material arrive on eite and testing)			50 days	Sat 9/7/22	Mon 5/9/22	Sat 9/7/22			444FS+31 days,502FS+21 days	100% 5		9/7 5/9
CFCD-03500	WD:=	Steel Roof Structure (Material arrive on site and testing)						Fri 14/10/22	NA 443FS+		445	20%		14/10 28/2
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%		1/3 29/3
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		46FF	0%		30/3 ■ 20/4
CFCD-05500	SW4	Surrounding sewerage, utility and process pipe works - Updated Process Pipes Arrangement	386, 298		28 days				Wed 30/11/22 424FS+	,	47FF,622FF,623FF,621FF,508F	100%		29/10 30/11
CFCD-06000	SW5	Surrounding Site formation works and road works			180 days	Tue 13/2/24	Sat 10/8/24	NA	NA 347FF		48FF,621FF,622FF,623FF	0%		13/2 10/8
CFHB-00000	*	Fire Hydrant and Booster Pump Room (16)				Fri 16/7/21	Sat 10/8/24	Fri 16/7/21	NA			23%	16/	7 10/8
CFHB-01000		Excavation for Raft Footing (160 cu.m)			14 days	Sat 3/12/22	Mon 19/12/22	Sat 3/12/22		7FS+30 days,366,369FS-25		100%		3/12 19/12
CFHB-02000		Plate Load Test (1st time)			4 days	Tue 20/12/22	Fri 23/12/22	Tue 20/12/22	Fri 23/12/22 450		452FF-2 emons,453	100%		20/12 23/12
CFHB-02900		Receiving of Civil Requirements from PM			1 day	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21	Fri 16/7/21 451FF-2			100%	16	5/7 16/7
CFHB-02950		Soil Replacement			9 days	Sat 24/12/22	Fri 6/1/23	Sat 24/12/22	NA 451		454FS+1 day	0%		24/12 6/1
CHFB-02960		Plate Load Test (2nd time)			4 days	Sun 8/1/23	Wed 11/1/23	NA	NA 453FS+		455FS+1 day	0%		8/1 11/1
CFHB-03000	KD3E	R.C. Structure & waterproofing works			39 days	Fri 13/1/23	Thu 2/3/23	NA	NA 454FS+	,	456,42FF	0% 5		13/1 2/3
CFHB-04000	SW3	ABWF Works & BS Works			38 days	Fri 3/3/23	Thu 20/4/23	NA NA	NA 455,245	,	46FF	0%		3/3 20/4
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+	,	47FF,622FF,623FF,621FF	100%		25/8 5/11
CFHB-05000	SW5	Surrounding Site formation works and road works			-	Tue 13/2/24	Sat 10/8/24	111u 25/6/22 NA	NA 347FF		48FF,621FF,622FF,623FF	0%		13/2 10/8
CTFS-00000	*	Transformer and Switchroom (15)			,	Fri 16/7/21	Sat 10/8/24	Fri 16/7/21	NA 347FF		,	14%	16/	7 10/8
CTFS-00000 CTFS-02900		···			•			Fri 16/7/21	Fri 16/7/21 462FF-2	emone	465	100%		6/7 16/7
		Receiving of Civil Requirements from PM	000		1 day	Fri 16/7/21	Fri 16/7/21						16	
CTFS-01000		ELS for Raft Footing (310 cu.m)	386		-	Fri 13/1/23	Sat 28/1/23	NA		7FS+30 days,366,369FS+2		0%		13/1 28/1
		Plate Load Test			4 days			NA	NA 461		465,460FF-2 emons,463FS+1 d	0%		30/1 2/2
		Soil Replacement			11 days	Sat 4/2/23	Thu 16/2/23	NA	NA 462FS+	,	464FS+1 day	0%		4/2 16/2
CTFS-02500		Plate Load Test (2nd time)			5 days	Sat 18/2/23	Wed 22/2/23	NA	NA 463FS+		465	0%		18/2 22/2
CTFS-02000 CTFS-02500 CTFS-02600		R.C. Structure			44 days	Thu 23/2/23	Wed 19/4/23	NA	NA 462,166		466,42FF	0% 5		23/2 19/4
CTFS-02500 CTFS-02600 CTFS-03000	KD3E	The caucate												0014 0414
CTFS-02500 CTFS-02600 CTFS-03000 CTFS-04000	SW3	ABWF Works & BS Works	(95)		4 days	Thu 20/4/23	Mon 24/4/23	NA	NA 465,245	SS,168SS	46FF	0%		20/4 24/4
CTFS-02500 CTFS-02600 CTFS-03000 CTFS-04000 CTFS-04500	SW3 SW4		(95)		4 days 175 days			NA Thu 25/8/22	NA 465,245 NA 368SS+	,	46FF 47FF,622FF,623FF,621FF	0% 34%		25/8 27/3
CTFS-02500 CTFS-02600 CTFS-03000 CTFS-04000	SW3	ABWF Works & BS Works	(95)		175 days		Mon 27/3/23			15 days				

Status Date: 31 Dec 22

Duration Start Successors 2020 no. (NCE 2022 2024 H1 ♦ 31/10 H1 H1 H1 H1 H1 470 CUC-00013 PM issued PMI-411(CE No.411) - Design and Construct Utility Corridor across Chuk Wan Street Mon 31/10/22 Mon 31/10/22 Mon 31/10/22 Mon 31/10/22 2/11 | 2/11 471 CUC-00014 PM approved proposed Sub-contractor for Subletting Package No.289 411 1 day Wed 2/11/22 Wed 2/11/22 Wed 2/11/22 Wed 2/11/22 472 100% 472 CUC-00015 2/11 = 16/12 Preparation work for PMI-411 45 days Wed 2/11/22 Fri 16/12/22 Wed 2/11/22 Fri 16/12/22 471 473 100% NA 2,341,340SS+48 days,472 Excavation for Trial Pit -Additional Works (Verification of Existing Utilities) 21/1 22/2 473 CUC-01000 474.585 25 days 474 CUC-02000 Construction of Utility Corridor 50 days Thu 23/2/23 Wed 26/4/23 NA 166 238 473 478 475 0%3 23/2 26/4 27/4 20/5 475 CUC-02500 Pipe Laving Works 20 days Thu 27/4/23 Sat 20/5/23 NA 474 476FS-11 days.478 0% 476 CUC-02600 Tue 9/5/23 Wed 31/5/23 NA 475FS-11 days 19 days Fri 30/6/23 477 CUC-03000 ABWF Works & BS Works Thu 1/6/23 NA 245SS,168SS,476 1/6 30/6 25 days 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 474.340FS-35 days,475 47FF 622FF 623FF 488SS 621I 0% 22/5 27/6 479 CUC-04000 SW5 NA 347FF 48FF.621FF.622FF.623FF 21/12 Surrounding Site formation works and road works 180 days Thu 21/12/23 Sat 10/8/24 480 CWMC-0000 Water Meter Cabinet (11) 574.8 days Thu 25/8/22 Sat 10/8/24 21% 483.482FF-2 emon 481 CWMC-0100 Excavation for Raft Footing (6 cu.m) Tue 14/2/23 Fri 24/2/23 NA 524SS 14/2 | 24/2 Receiving of Civil Requirements from PM NA 481FF-2 emons 482 CWMC-01900 0 days Mon 26/12/22 Mon 26/12/22 483SS-2 emons 0% 26/12 483 CWMC-02000 Sat 25/2/23 Tue 14/3/23 NA 166.238.481.482SS-2 emons 25/2 14/3 R.C. Structure 15 days 0%3 484 CWMC-0300 ABWF Works & BS Works Wed 15/3/23 Mon 3/4/23 NA 483.245SS.168SS 15/3 3/4 Sat 5/11/22 368SS+15 days 485 CWMC-03500 Surrounding sewerage, utility and process pipe works 220 60 days Thu 25/8/22 Sat 5/11/22 Thu 25/8/22 47FF 622FF 623FF 621FF 100% 25/8 5/11 SW5 13/2 10/8 486 CWMC-04000 Surrounding Site formation works and road works 180 days Tue 13/2/24 Sat 10/8/24 NA NA 347FF 48FF.621FF.622FF.623FF 0% 487 CGH-00000 Guard House (14) 904.8 days Fri 16/7/21 Sat 10/8/24 Fri 16/7/21 488 CGH-01000 Mon 22/5/23 NA 2.478SS 22/5 2/6 Fri 2/6/23 489FF-2 emons.490 490SS-2 emons Fri 16/7/21 488FF-2 emons 16/7 | 16/7 489 CGH-01900 Receiving of Civil Requirements from PM 1 day Fri 16/7/21 Fri 16/7/21 Fri 16/7/21 100% 490 CGH-02000 NA 489SS-2 emons,166,488,238 3/6 8/7 R.C. Structure 29 days Sat 3/6/23 Sat 8/7/23 491FS+1 day 0%3 491 CGH-0300 ABWF Works & BS Works NA 245SS,168SS,490FS+1 day 11/7 4/8 22 days NA 340FS-28 days 492 CGH-03500 SW4 Surrounding sewerage, utility and process pipe works 205 Wed 22/2/23 Thu 20/4/23 621EE 622EE 623EE 22/2 20/4 46 days 13/2 48FF.621FF.622FF.623FF 10/8 493 CGH-04000 SW5 Surrounding Site formation works and road works 180 days Tue 13/2/24 Sat 10/8/24 NΑ NA 347FF 0% 494 CCPS-00000 THP Coolers Pumping Station (21) 787.8 days Fri 3/12/21 Sat 10/8/24 Fri 3/12/21 55% 495 CCPS-0101 3/12 22/12 Wed 22/12/2 Wed 22/12/21 322SS+30 days 20 days 497FF-2 emons.498FS+61 days 496 CCPS-01000 Excavation & FLS (185 cu m) (70) 75 days Mon 10/1/22 Mon 11/4/22 Mon 10/1/22 Mon 11/4/22 100% 10/1 11/4 497 CCPS-01900 Thu 30/12/21 496FF-2 emons 30/12 | 30/12 Receiving of Civil Requirements from PM 1 day Thu 30/12/21 Thu 30/12/21 Thu 30/12/21 498SS-2 emons 100% 498 CCPS-02000 140 days Wed 29/6/22 Tue 13/12/22 Tue 13/12/22 166.238.497SS-2 emons.496FS+61 499 29/6 13/12 R.C. Structure Wed 29/6/22 100%5 19/1 2/2 499 CCPS-02500 Surrounding sewerage, utility and process pipe works NA 498,388,340FS-54 days 47FF.621FF.622FF.623FF SW4 10 days Thu 19/1/23 Thu 2/2/23 500 CCPS-03000 SW5 Surrounding Site formation works and road works 180 days Tue 13/2/24 Sat 10/8/24 NA 347FF 621FF.622FF.623FF 0% 13/2 10/8 501 CWGB-00000 Waste Gas Burner (8) 930.8 days Tue 15/6/21 Sat 10/8/24 Tue 15/6/21 NA 13% 502 CWGB-01000 Excavation for Raft Rooting (75cu.m) Fri 30/9/22 Fri 30/9/22 Thu 6/10/22 443FS+21 days 30/9 | 6/10 Thu 6/10/22 3 days 503 CWGB-02000 Plate Load Test 7 days Thu 6/10/22 Thu 13/10/22 Thu 6/10/22 Thu 13/10/22 502 506FF-2 emons 507FS+30 day 100% 6/10 | 13/10 504 CWGB-02300 Soil Replacement 6 days Tue 17/1/23 Thu 26/1/23 NA NA 508FS+17 days 505FS+3 days 0% 17/1 26/1 505 CWGB-02500 Plate Load Test (2nd time) Tue 31/1/23 NA 504FS+3 days 507FS+2 days 31/1 3/2 4 days Fri 3/2/23 0% 506 CWGB-02900 Receiving of Civil Requirements from PM 1 day Tue 15/6/21 Tue 15/6/21 Tue 15/6/21 503FF-2 emons 100% 15/6 | 15/6 507 CWGB-03000 KD3F R C Plinth 17 days Tue 7/2/23 Sat 25/2/23 NA 166 506SS-2 emons 503ES+30 days 42EE 7/2 25/2 Fri 23/12/22 447FS+1 day 47FF,622FF,623FF,621FF,504F 2/12 23/12 508 CWGB-03500 SW4 Surrounding sewerage, utility and process pipe works 19 days Fri 2/12/22 Fri 23/12/22 Fri 2/12/22 100% 509 CWGB-04000 NA 347FF 48FF.621FF.622FF.623FF 13/2 Surrounding Site formation works and road works 180 days Tue 13/2/24 Sat 10/8/24 510 CPSW-00000 Plant Services Water System (20) 1068.8 days Mon 21/12/20 Sat 10/8/24 Mon 21/12/20 21/12 511 CPSW-01000 Excavation for Raft Footing (800 cu.m) - Unexpected Ground Condition, leads to modification of ELS 336.(81), (34) 18 days Mon 21/12/20 Wed 13/1/21 Mon 21/12/20 Wed 13/1/21 2 100% 21/12 13/1 512 CPSW-02000 514,513FF-2 emons 13/1 25/1 Plate Load Test 10 days Wed 13/1/21 Mon 25/1/21 Wed 13/1/21 Mon 25/1/21 511 100% 15/6 | 15/6 513 CPSW-02900 Receiving of Civil Requirements from PM Tue 15/6/21 Tue 15/6/21 Tue 15/6/21 512FF-2 emons 514SS-2 emons Tue 15/6/21 100% 1 day 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 emon 42FF,515 100% 26/1 4/3 1/4 30/5 515 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% 47FF,622FF,623FF,621FF 25/8 ___ 5/11 516 CPSW-03600 Surrounding sewerage, utility and process pipe works - (Updated Process Pipe Arrangement) Sat 5/11/22 368SS+2 days SW4 439,455 Thu 25/8/22 Sat 5/11/22 60 days Thu 25/8/22 100% 517 CPSW-04000 338,(204), 48FF,621FF,622FF,623FF 13/2 Surrounding Site formation works and road works Tue 13/2/24 Sat 10/8/24 NA 347FF 10/8 518 CDS11-00000 Deodorization System No. 11 (18) 574.8 days Thu 25/8/22 Sat 10/8/24 Thu 25/8/22 NΔ 23% 25/8 ₪ 10/8 15/11 | 15/11 NA 521FF-2 emons 519 CDS11-02900 Receiving of Civil Requirements from PM 1 day Tue 15/11/22 Tue 15/11/22 524SS-2 emons 0% 520 CDS11-01000 Excavation for Raft Footing (1,280 cu.m) Fri 23/12/22 597,369,366 521FS+11 days 17/12 | 23/12 Sat 17/12/22 Fri 23/12/22 6 days Sat 17/12/22 100% NA 520FS+11 days 521 CDS11-0200 Plate Load Test Tue 10/1/23 Sat 14/1/23 519FF-2 emons,522FS+1 day 10/1 | 14/1 523FS+1 day 522 CDS11-02500 Soil Replacement 16 days Tue 17/1/23 Tue 7/2/23 NA 521FS+1 day 0% 17/1 7/2 9/2 | 11/2 523 CDS11-02600 Plate Load Test (2nd time) 3 days Thu 9/2/23 Sat 11/2/23 NA 522FS+1 day 524FS+1 day 0% 14/2 9/3 524 CDS11-0300 21 days Tue 14/2/23 Thu 9/3/23 NA 166,519SS-2 emons,523FS+1 day 42FF,481SS,46FF 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 621FF 622FF 623FF 100% 25/8 5/11 526 CDS11-04000 SW5 Surrounding Site formation works and road works 180 days Tue 13/2/24 Sat 10/8/24 NA 347FF 48FF 621FF 622FF 623FF 0% 13/2 10/8 527 CBGH-00000 Fri 16/7/21 Biogas Holder (7) 904.8 days Fri 16/7/21 Sat 10/8/24 31% 528 CBGH-0100 Excavation for Raft Footing (1,120 cu.m) - Uncharted Concrete (452), (454), (455) Wed 25/5/22 Wed 3/8/22 Wed 25/5/22 25/5 3/8 59 days 100% 529 CRGH-02000 Plate I nad Test 10 days Thu 17/2/22 Mon 28/2/22 Thu 17/9/99 Mon 28/2/22 528 531 530FF-2 emons 100% 17/2 28/2 16/7 | 16/7 530 CBGH-02900 Receiving of Civil Requirements from PM 299 1 day Fri 16/7/21 Fri 16/7/21 Fri 16/7/21 Fri 16/7/21 529FF-2 emons 531SS-2 emons 100% 531 CBGH-03000 KD3E, SW3 R.C. Plinth - Change to Works Information (Resize of Plinth) Fri 15/7/22 Fri 15/7/22 Mon 5/9/22 529.166.530SS-2 emons.528FS-17 (42FF.46FF.532 100% 15/7 _ 5/9 45 days 532 CBGH-03500 196.8 days Mon 10/10/22 Fri 9/6/23 47FF.622FF.623FF.621FF Surrounding sewerage, utility and process pipe works - update process pipe arrangement, Revised Plan for Pipe 262,297,248 NA 531,341SS+5 days 10/10 9/6 533 CBGH-04000 SW5 Surrounding Site formation works and road works 180 days Tue 13/2/24 Sat 10/8/24 NΔ NA 347FF 48FF.621FF.622FF.623FF 0% 13/2 10/8 H2S Removal System (12) Mon 8/11/21 534 CH2S-00000 809.8 days Mon 8/11/21 Sat 10/8/24 7% 535 CH2S-01000 Excavation for Raft Footing (396 cu.m) Thu 22/9/22 Sat 24/9/22 Sat 24/9/22 330FS+16 days 22/9 | 24/9 Thu 22/9/22 2 days 100% Plate Load Test 536 CH2S-02000 5 days Mon 26/9/22 Fri 30/9/22 Mon 26/9/22 Fri 30/9/22 535 539FF-2 emons 100% 26/9 | 30/9 537 CH2S-02500 Backfill and Compaction of Soil and SRT 10 days Thu 10/11/22 Sat 19/11/22 Thu 10/11/22 Sat 19/11/22 535,340FS+14 days 538FS+10 days 100% 10/11 | 19/11 538 CH2S-02600 Sat 3/12/22 537FS+10 days Plate Load Test on formation level 4 days Wed 30/11/22 Sat 3/12/22 Wed 30/11/22 540FS+101 days 100% 30/11 | 3/12 539 CH2S-02900 8/11 | 8/11 Receiving of Civil Requirements from PM 1 day Mon 8/11/21 Mon 8/11/21 Mon 8/11/21 536FF-2 emons 540 CH2S-03000 KD3F SW3 R C Plinth 15 days Thu 13/4/23 Sat 29/4/23 NA NA 538FS+101 days 42FF 46FF 547SS 13/4 29/4 47FF.622FF.623FF.621FF.5485 541 CH2S-03500 SW4 Surrounding sewerage, utility and process pipe works 89 days Thu 9/2/23 Tue 30/5/23 NA 346FF 0% 9/2 30/5 542 CH2S-04000 SW5 NA 347FF 48FF,621FF,622FF,623FF 13/2 Surrounding Site formation works and road works 180 days Tue 13/2/24 Sat 10/8/24 543 CDS12-00000 Deodorization System No. 12 (19) 930.8 days Tue 15/6/21 Sat 10/8/24 Tue 15/6/21 9/9 | 14/9 544 CDS12-0100 Excavation to Formation Fri 9/9/22 Wed 14/9/22 Fri 9/9/22 Wed 14/9/22 341FS-38 days 4 days 100% 546FF-2 emons.547 15/9 | 19/9 545 CDS12-02000 Plate Load Test 4 days Thu 15/9/22 Mon 19/9/22 Thu 15/9/22 Mon 19/9/22 544 100% Tue 15/6/21 545FF-2 emons 547SS-2 emons 15/6 | 15/6 546 CDS12-0290 Receiving of Civil Requirements from PM 1 day Tue 15/6/21 100% R.C. Plinth 547 CDS12-03000 KD3E, SW3 15 days Thu 13/4/23 Sat 29/4/23 NA 166,546SS-2 emons,545,540SS 42FF 46FF 13/4 29/4 0% 47FF.622FF.623FF.621FF 548 CDS12-03500 SW4 Surrounding sewerage, utility and process pipe works 46 days Thu 9/2/23 Mon 3/4/23 NA 541SS 0% 9/2 3/4 549 CDS12-04000 13/2 SW5 Sat 10/8/24 NA 347FF 48FF.621FF.622FF.623FF 0% Surrounding Site formation works and road works 180 days Tue 13/2/24 550 CUPH-00000 SW5 Thu 20/2/20 Sat 16/7/22 47FF 551 CPWU-00000 Pine Works and Utility Installation 1392.8 days Fri 22/11/19 Wed 14/8/24 Fri 22/11/19 NΔ 57% 22/11 ■ 552 CPWU-01000 Pipe Works At Chuk Wan Street 498 days Fri 22/11/19 Fri 30/7/21 Fri 22/11/19 Fri 30/7/21 100% 22/11 30/7 553 CPWU-01100 Drainage Diversion (Existing Drainage Culvert) 498 days Fri 22/11/19 Fri 30/7/21 Fri 30/7/21 275,221 100% 554 CPWU-01110 Stage 1 - Drainage Diversion of Drainage btw Reconstructed Storm Water Manhole SMH1003177A and 7 days Fri 22/11/19 Fri 29/11/19 Fri 22/11/19 Fri 29/11/19 158.180.185.181.169.202.221 555 100% 22/11 | 29/11 555 CPWU-01120 Stage 1 - Drainage Diversion of Drainage btw Reconstructed Storm Water Manhole SMH1003177A and Reconstr 17, 21 23, 26, (8), (17), (34), (39) 90 days Mon 6/1/20 Mon 27/4/20 Mon 6/1/20 Mon 27/4/20 554 100% 6/1 27/4 28/4 | 6/5 556 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% Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisiting Drainage Cul 338, (204), (228 557 CPWU-01140 60 days Thu 4/3/21 Tue 18/5/2 Thu 4/3/2 Tue 18/5/21 292 100% 4/3 18/5 558 CPWU-01150 Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng Drainage Cul Thu 20/5/21 Thu 20/5/21 Fri 30/7/21 557 44FF 20/5 30/7 SW1 Fri 30/7/21 100% 559 CPWU-01200 SW4 Trenchless Work for Pine Installation 309 days Sat 13/6/20 Tue 29/6/21 Sat 13/6/20 Tue 29/6/21 47FF 100% 13/6 13/6 | 17/6 Installation of Monitoring Points 560 CPWU-01210 4 days Sat 13/6/20 Wed 17/6/20 Sat 13/6/20 Wed 17/6/20 562 100% 561 CPWU-01220 Construction of Temporary Jacking Pit Sun 11/10/20 15,172 18/6 11/10 Critical Split Task Milestone • Summary Critical

Page 6



		and 132kV Primary Substation										KL-CW JV
Activity ID	KD	Task Name	Inclement Weather CE no. (NCE	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start A	Actual Finish Predecessors	Successors %	omplete Risk Allowan	2020 2022 2024 20
			no.)				_					2020 2022 2024 20 H1
PWU-01221		Trial Pit Excavation & UU Detection Works			0 days	Thu 18/6/20		Thu 18/6/20	Thu 18/6/20 2,560	563	100%	
PWU-01222		Pit Construction (11m x 9m)	33, 45, 46, 257	3	89 days	Fri 26/6/20	Sun 11/10/20	Fri 26/6/20	Sun 11/10/20 562	566	100%	26/6 11/10
WU-01230		Pipe Jacking Operation			180 days	Mon 12/10/20		Mon 12/10/20	Mon 24/5/21		100%	12/10 24/5
VU-01231		Twin DN900 DI pipe (CHAT & CHAU)		(26), (128), 230	180 days	Mon 12/10/20		Mon 12/10/20	Mon 24/5/21		100%	12/10 24/5
VU-01231a		Setting Up of Entrance Ring & Gantry, and Trenchless Equipment	(69), (92)	(60)	24 days	Mon 12/10/20	Mon 9/11/20	Mon 12/10/20	Mon 9/11/20 563	567	100%	12/10 9/11
/U-01231b		Pipe Jacking Operation for CHAT DN900 DI pipe (30m, 3m/day)	(92)		26 days	Mon 9/11/20	Wed 9/12/20	Mon 9/11/20	Wed 9/12/20 566	570,569,568	100% 6	9/11 9/12
/U-01231c		Setting Up of Entrance Ring & Gantry, and Trenchless Equipment	(112)		7 days	Wed 9/12/20	Wed 16/12/20	Wed 9/12/20	Wed 16/12/20 567	569	100%	9/12 16/12
/U-01231d		Pipe Jacking Operation for CHAU DN900 DI pipe (30m, 3m/day)	(112)		16 days			Sat 12/12/20	Sun 27/12/20 567,568	570	100%	12/12 27/12
/U-01231e		Installation of grouting pipe and rail	(/		23 days	Sat 26/12/20	Sat 23/1/21	Sat 26/12/20	Sat 23/1/21 567,569	571	100%	26/12 23/1
U-01231f		Pipe Laying Works			25 days	Fri 26/3/21	Wed 28/4/21	Fri 26/3/21	Wed 28/4/21 570	572	100%	26/3 28/4
U-01231q		Formwork Erection and grouting works			7 days	Thu 29/4/21	Fri 7/5/21	Thu 29/4/21	Fri 7/5/21 571	372	100%	29/4 7/5
		• •										
/U-01231h		Backfilling works			14 days	Fri 7/5/21	Mon 24/5/21	Fri 7/5/21	Mon 24/5/21 580SS		100%	7/5 24/5
/U-01232		Pipe Jacking Operation for DN2200 MS pipe (CHAV)			100 days	Mon 18/1/21	Mon 24/5/21	Mon 18/1/21	Mon 24/5/21		100%	18/1 24/5
/U-01232a		Setting Up of Entrance Ring & Gantry, and Trenchless Equipment		(62)	18 days	Mon 18/1/21	Sat 6/2/21	Mon 18/1/21	Sat 6/2/21	576	100%	18/1 ⋒ 6/2
'U-01232b		Pipe Jacking Operation for twin DN2200 DI pipe	268, 338		28 days	Mon 8/2/21	Mon 15/3/21	Mon 8/2/21	Mon 15/3/21 575	577	100% 6	8/2 🔳 15/3
/U-01232c		Installation of grouting pipe and rail	(204)		18 days	Tue 16/3/21	Fri 9/4/21	Tue 16/3/21	Fri 9/4/21 576	578	100%	16/3 🛮 9/4
/U-01232d		Pipe Laying Works	(204)		18 days	Sat 10/4/21	Fri 30/4/21	Sat 10/4/21	Fri 30/4/21 577	579	100%	10/4 ■ 30/4
/U-01232e		Formwork Erection and grouting works			4 days	Mon 3/5/21	Thu 6/5/21	Mon 3/5/21	Thu 6/5/21 578	581,580	100%	3/5 6/5
VU-01232f		Backfilling works			14 days	Fri 7/5/21	Mon 24/5/21	Fri 7/5/21	Mon 24/5/21 579	581,573SS	100%	7/5 24/5
VU-01240		Reinstatement of Temporary Launching Pit			30 days	Tue 25/5/21	Tue 29/6/21	Tue 25/5/21	Tue 29/6/21 579,580	582	100%	25/5 29/6
WU-01020	SW5	Surrounding Site formation works and road works			445 days	Sun 28/5/23	Wed 14/8/24	NA	NA 581,583	48FF	0%	28/5
VU-01020 VU-02160	SW4	Cable & Other Underground Utility Pipeworks	17, 21, 22, 33,	1/283)		Thu 13/5/21	Sat 27/5/23	Thu 13/5/21	NA 171,358,415	582.47FF	69%	13/5
	3444		17, 21, 22, 33,	7(200)	-							
/U-02160d		Cable works				Mon 13/6/22	Sat 29/4/23	Mon 13/6/22	NA NA 470	47FF	0%	13/6 29/4
/U-02160e		Cable Works from Chuk Wan Street to WS2			45 days	Thu 23/2/23	Sat 8/4/23	NA	NA 473	47FF	0%	23/2 8/4
/U-02160a		Trench No.1 and associated utilities and pipeworks		297		Mon 3/4/23	Sat 27/5/23	NA	NA 340FS+6 days	47FF	0%	3/4 = 27/5
/U-02160b		Trench No.2 and associated utilities and pipeworks		298		Mon 27/3/23		NA	NA 340	47FF	0%	27/3 14/4
/U-02160c		Trench No.3 and associated utilities and pipeworks		299	12 days	Mon 21/11/22	Sat 3/12/22	Mon 21/11/22	NA 340SS-2 days	47FF	0%	21/11 3/12
/U-02161		Portion C1-B, UV No.1 Building			435.8 days	Thu 13/5/21	Fri 28/10/22	Thu 13/5/21	Fri 28/10/22 300		100%	13/5 28/10
/U-02161a		Falsework removal of UV no.1 building		288, 248	30 days	Thu 13/5/21	Fri 18/6/21	Thu 13/5/21	Fri 18/6/21	44FF	100%	13/5 18/6
/U-02161b		Fence Wall (25m) - Footing		248, (323)	7 days	Tue 28/9/21	Wed 6/10/21	Tue 28/9/21	Wed 6/10/21	592,44FF	100%	28/9 6/10
/U-02161c		Sewage & Drainage system & Concrete Pipe between MHD26 and SMH1003177A (+3.6mPD)		********	88 days	Wed 14/7/21	Wed 3/10/21	Wed 14/7/21	Wed 27/10/21 591	593,44FF	100%	14/7 27/10
/U-02161d		Process pipe DN800 (CHAY)			20 days	Thu 28/10/21		Thu 28/10/21	Fri 19/11/21 592	594.44FF	100%	28/10 19/11
/U-02161a /U-02161e		· · · · · · · · · · · · · · · · · · ·		(323)					Mon 13/12/21 593	594,44FF 595.44FF	100%	20/10 13/12
		Fence wall (25m) - Wall		(323)	20 days	Sat 20/11/21		Sat 20/11/21		1.1.4		
VU-02161f		Irrigation System		218	5 days	Mon 21/3/22	Fri 25/3/22	Mon 21/3/22	Fri 25/3/22 594	596,44FF	100%	21/3 25/3
/U-02161g		Road works (footpath 25m)				Fri 1/4/22	Thu 6/10/22	Fri 1/4/22	Thu 6/10/22 595	597	100%	1/4 6/10
U-02161h		Pedestrian Walkway diversion works			23 days	Thu 6/10/22	Fri 28/10/22	Thu 6/10/22	Fri 28/10/22 596	450FS+30 days,461FS+30 days	100%	6/10 ■ 28/10
U-02162		Portion C1-B, EVA			322 days	Thu 24/6/21	Mon 25/7/22	Thu 24/6/21	Mon 25/7/22	47FF	100%	24/6
/U-02162a		Watermain works DN450, 350, 300, 150 & 100 (CHL, CHA, CHC, CHLA) (60m)		216, 248, 276,318, (295), (305)	183 days	Thu 24/6/21	Mon 31/1/22	Thu 24/6/21	Mon 31/1/22	600SS	100%	24/6 31/1
/U-02162b		AC DN150 pipe (CHR)		216	191 days	Thu 24/6/21	Fri 31/12/21	Thu 24/6/21	Fri 31/12/21 599SS		100%	24/6 31/12
/U-02162c		Fence wall near UV no.1 (30m)		(326)		Mon 20/12/21		Mon 20/12/21	Fri 14/1/22	606	100%	20/12 14/1
/U-02162d		Area between Fence wall and UV no.1		(020)	232 days	Mon 11/10/21		Mon 11/10/21	Mon 25/7/22	000	100%	11/10 25/7
U-02162d1						Mon 11/10/21 Mon 11/10/21		Mon 11/10/21	Wed 30/3/22		100%	11/10 30/3
		Draiange system		040	-					005		'
VU-02162d2		Irrigation System		218	21 days	Mon 21/3/22		Mon 21/3/22	Thu 14/4/22	605	100%	21/3 14/4
WU-02162d3		Road works (footpath 30m)			80 days	Tue 19/4/22	Mon 25/7/22	Tue 19/4/22	Mon 25/7/22 604		100%	19/4 25/7
VU-02162j		Area between Fence wall and SSSH			128 days	Sat 15/1/22	Fri 24/6/22	Sat 15/1/22	Fri 24/6/22 601		100%	15/1 24/6
VU-02162j0		300 Uchannel (50m)			40 days	Sat 15/1/22	Sat 5/3/22	Sat 15/1/22	Sat 5/3/22	608	100%	15/1 = 5/3
NU-02162j1		HyD Lightng pole and drawpits			30 days	Mon 7/3/22	Mon 11/4/22	Mon 7/3/22	Mon 11/4/22 607	609,610	100%	7/3 11/4
VU-02162j2		Road light & drawpit			35 days	Tue 12/4/22	Fri 27/5/22	Tue 12/4/22	Fri 27/5/22 608	611	100%	12/4 27/5
NU-02162i3		Cable Drawpit & ducts			30 days	Tue 12/4/22	Sat 21/5/22	Tue 12/4/22	Sat 21/5/22 608	611	100%	12/4 21/5
WU-02162j4		Road works (footpath & carriageway)		(343)	23 days	Sat 28/5/22	Fri 24/6/22	Sat 28/5/22	Fri 24/6/22 610,609	011	100%	28/5 24/6
				(343)	-				NA			25/3 24/4
VU-02163		Portion C1-B (Stage 3 - External Works)				Fri 25/3/22	Mon 24/4/23	Fri 25/3/22			64%	
VU-02163b		Process Pipe DN1400 (CHAW) (35m)		273	25 days	Fri 25/3/22	Wed 27/4/22	Fri 25/3/22	Wed 27/4/22	616,614	100%	25/3 27/4
VU-02163c		Process Pipe DN300 (CHBA) (35m)			80 days	Thu 28/4/22	Sat 16/7/22	Thu 28/4/22	Sat 16/7/22 613	616	100%	28/4 16/7
/U-02163d		Process Pipe DN300 (CHAX) (10m)			10 days	Mon 20/2/23	Thu 2/3/23	NA	NA 619FF	616	0%	20/2 2/3
VU-02163e		Cable drawpit and ducts			10 days	Thu 2/3/23	Tue 14/3/23	NA	NA 613,614,615	617	0%	2/3 14/3
VU-02163f		Road Works (footpath & carriageway)			10 days	Tue 14/3/23	Sat 25/3/23	NA	NA 616	618	0%	14/3 25/3
VU-02164		Road Widening Works at Chuk Wan Street			-	Sat 25/3/23	Mon 24/4/23	NA	NA 617	48FF	0%	25/3 24/4
VU-02200	SW4	Pipe Bridge No.1		297		Thu 15/12/22		NA	NA 366FS+120 days	615FF	0%	15/12 2/3
/L-00000	*	Remaining Works & Landscape Works		20.	827 days	Tue 1/11/22	Mon 11/8/25	Tue 1/11/22	NA NA		0%	1/11
	SW5			218	30 days	Mon 8/7/24	Sat 10/8/24	NA		347FF,372FF,373FF48FF,50	0%	8/7 10/8
/L-01000		Irrigation System		£10	-							_ '
/L-02000	SW5	Hard Landscape Works				Fri 10/5/24	Sat 10/8/24	NA NA		372FF,392FF,406FF 48FF,50	0%	10/5 10/8
/L-03000	SW5	Soft Landscape Works			-	Fri 10/5/24	Sat 10/8/24	NA		372FF,392FF,406FF629,48FF,50	0%	10/5 10/8
/L-04000	SW5	Outfall for Effluent Pipes				Tue 1/11/22	Sat 1/4/23	Tue 1/11/22	NA 214	48FF	0%	1/11 1/4
/L-05000	SW5	Slope Formation Works near Outfall				Tue 1/11/22		Tue 1/11/22	NA 214	48FF,627FF	0%	1/11 1/4
/L-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	627FF	0%	1/11 3/8
/L-07000	SW5	Retaining Wall along River Embankment, street furniture & road works			379 days	Mon 17/4/23	Sat 3/8/24	NA	NA 214,626FF,625F	F 48FF	0%	17/4 3/8
L-08000	SW5	Remaining Site formation works, road works and boundary fence wall		(348), 299			Wed 7/8/24	NA	NA 46	48FF	0%	18/8 7/8
'L-09000		Establishment Works (365 Calendar Days)			-	Mon 12/8/24		NA	NA 623,174	49FF	0%	12/8
PA-00000	*	Construction of Portion A of the Site				Wed 27/11/19		Wed 27/11/19	NA NA		86%	27/11
2S-00000	*	132kV Substation				Wed 27/11/19 Wed 27/11/19		Wed 27/11/19	NA NA		86%	27/11 20/7
2SI-00000		Internal Works				Wed 27/11/19 Wed 27/11/19		Wed 27/11/19	Thu 20/1/22		100%	27/11 20/1
					-					004		10/12 3/1
2SI-01000		Site Clearance & Site Set Up		(00)	19 days	Tue 10/12/19		Tue 10/12/19	Fri 3/1/20 2	634	100%	
SI-02000		Additional Tree Felling Works		(29)	-	Fri 20/12/19		Fri 20/12/19	Thu 2/1/20 633	636	100%	20/12 2/1
2SI-03000		Trial Pit Excavation & UU Detection Works			0 days			Mon 2/12/19	Thu 12/12/19 2	637	100%	2/12 12/12
SI-04000		Additional Demolition of existing structure		4, (2), (36)	28 days	Wed 27/11/19		Wed 27/11/19	Tue 31/12/19 634	637	100%	27/11 31/12
SI-05000		Predrilling Works (11no., 1rig, 3days/drillhole/rig)		(10)	16 days	Sat 4/1/20	Wed 22/1/20	Sat 4/1/20	Wed 22/1/20 160,635,213,636	638	100%	4/1 22/1
SI-06000		Installation of Monitoring Points		29/32	4 days	Thu 16/1/20	Mon 20/1/20	Thu 16/1/20	Mon 20/1/20 637	639	100%	16/1 20/1
SI-07000		Setting up plant for pre-bored socked H-pile Installation		5, (22)	3 days	Mon 27/1/20	Fri 31/1/20	Mon 27/1/20	Fri 31/1/20 638	640	100%	27/1 31/1
2SI-08000		Pre-bored Socketed H-Pile Installation (41 Nos, 2 Rig, 3days/rig/pile)	17, 21, 22	39/43, (10), (19), (36)	88 days	Sat 1/2/20	Wed 20/5/20	Sat 1/2/20	Wed 20/5/20 161,639	641,379,643	100% 6	1/2 20/5
2SI-09000		Pile Load Test	22, 33		23 days	Thu 21/5/20	Tue 16/6/20	Thu 21/5/20	Tue 16/6/20 640	642,414FS+5 days,644	100%	21/5 16/6
				224 (10) (24) (26) (50) (50) (50)								_
2SI-10000		Sheetpile Installation Stage 1 - Obstruction of Uncharted Manhole and DI Pipe, and Fire Hydrants	45	234, (19), (24), (36), (56), (58), (59)		Thu 21/5/20	Fri 9/10/20	Thu 21/5/20	Fri 9/10/20 641,163	645	100% 6	21/5 9/10
2SI-11000		CHP Cable Diversion Works		31/35, (23), (137)	70 days	Fri 21/2/20	Tue 19/5/20	Fri 21/2/20	Tue 19/5/20 640		100%	21/2 19/5
2SI-12000		Watermain diversion and relocation of water meter		(15), (35), (90)	192 days			Mon 27/4/20	Mon 14/12/20 641		100%	27/4 14/12
2SI-13000		Excavation Works Stage 1	45, 46, 257,	(16), (23), (36)	86 days	Wed 22/7/20	Mon 2/11/20	Wed 22/7/20	Mon 2/11/20 642	646	100%8	22/7 2/11
2SI-14000		R.C. Structure (880 sq.m)		(52)	175 days	Wed 30/9/20	Fri 7/5/21	Wed 30/9/20	Fri 7/5/21 239,240,166,238		100% 10	30/9 7/5
2SI-14020		Basement -Revised 132kV Primary Substation Foundation Plan	(92), (112)	39/43, (56), (59), (115), (30)	50 days			Wed 30/9/20	Mon 30/11/20	648	100%	30/9 30/11
2SI-14030		Ground Floor - Change to Works Information / Revised Civil Requirement (G/F)	268		-	Tue 1/12/20	Wed 24/2/21	Tue 1/12/20	Wed 24/2/21 647	649	100%	1/12 24/2
				(106), (115), (143), (79),(103),(91),								
		First Floor - Change to Works Information / Revised Civil Requirement (1/F)	338	(143), (104)	19 days	Thu 25/2/21	Fri 9/4/21	Thu 25/2/21	Fri 9/4/21 648	650	100%	25/2 9/4
32SI-14040		Roof Floor (461sq.m) - Additional Roof Plinth	(204), (228)	(126), (143), (105)	23 days	Sat 10/4/21	Fri 7/5/21	Sat 10/4/21	Fri 7/5/21 649	651	100%	10/4 7/5
32SI-14040 32SI-14050		_			26 days	Fri 2/4/21	Fri 7/5/21	Fri 2/4/21	Fri 7/5/21 650	652.658.653.656.655.657.654	100%	2/4 7/5
32SI-14040 32SI-14050 32SI-14060		Parapet								002,000,000,000,000,007		
32SI-14040 32SI-14050		Parapet ABWF Works + Additional Works		(269), (271), (274), (324), (208), (2	-	Sat 8/5/21	Tue 5/10/21	Sat 8/5/21	Tue 5/10/21 245,168,651	658FF	100%	8/5 5/10

Revised Programme (Status Date:31/12/2022)

群利-俊和聯營體 KL-CW IV

)	Activity ID	KD	Task Name	Inclement Weather C no. (NCE no.)		Duration	Start	Finish	Actual Start	ctual Finish Predecessors	Successors	% Time Complete Risk Allowan	2020 2022 2024
654	C132SI-24000		Electricial Installation and Miscellaneous Metal Works (incl. MCB board, LV switchboard & cables, etc)	110.)	(268)	100 days	Sat 8/5/21	Sat 4/9/21	Sat 8/5/21	Sat 4/9/21 651	658FF	100%	8/5 4/9
55	C132SI-25000		Backfilling reinstatement & road works			100 days	Sat 8/5/21	Sat 4/9/21	Sat 8/5/21	Sat 4/9/21 651	658FF	100%	8/5 4/9
556	C132SI-26000		Installation of telephone line/ direct link for FSD Inspection			100 days	Sat 8/5/21	Sat 4/9/21	Sat 8/5/21	Sat 4/9/21 651,660		100%	8/5 4/9
357	C132SI-27000		Building Services Installation Works (incl. Fire Services, Plumbing, Drainage, etc.)			100 days	Sat 8/5/21	Sat 4/9/21	Sat 8/5/21	Sat 4/9/21 651		100%	8/5 4/9
58	C132SI-28000		Architectual Works			144 days	Mon 7/6/21	Fri 26/11/21	Mon 7/6/21	Fri 26/11/21 652FF,653FF,654FF,655FF,651	659	100%	7/6 26/11
559	C132SI-29000		Testing & Commissioning of the E&M Works			29 days	Sat 27/11/21	Mon 3/1/22	Sat 27/11/21	Mon 3/1/22 658	661,660SS+5 days,662	100%	27/11 3/1
60	C132SI-30010		Handover to CLP for LV Transformer Room			1 day	Wed 8/12/21	Wed 8/12/21	Wed 8/12/21	Wed 8/12/21 659SS+5 days	656,662	100%	8/12 8/12
61	C132SI-30000		FSD Inspection & FS Certificate			15 days	Tue 4/1/22	Thu 20/1/22	Tue 4/1/22	Thu 20/1/22 659	205SS-2 emons,683	100%	4/1 20/1
62	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 3/1/22 660,659,680	663SS-30 days,37FF,683	100%	♦ 3/1
63	C132SI-32000		ABWF Works - External Finishing		(173)	45 days	Mon 8/11/21	Fri 31/12/21	Mon 8/11/21	Fri 31/12/21 662SS-30 days,245,168	683	100%	8/11 🔳 31/12
64	C132SE-00000		External Works			344 days	Mon 21/12/20	Mon 21/2/22	Mon 21/12/20	Mon 21/2/22 183	695	100%	21/12 21/2
65	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	683	100%	21/12 15/6
66	C132SE-01010		Trial Pit Excavation & UU Detection Works	(112)		2 days	Mon 21/12/20	Tue 22/12/20	Mon 21/12/20	Tue 22/12/20 186	667	100%	21/12 22/12
67	C132SE-01020		Diversion of existing UU (i.e. 3no. Street light)	268		48 days	Wed 23/12/20	Tue 23/2/21	Wed 23/12/20	Tue 23/2/21 666	668SS+20 days	100%	23/12 23/2
68	C132SI-17000		Dismantle existing boundary wall	268, 338	(21), (90), 370	63 days	Thu 14/1/21	Wed 31/3/21	Thu 14/1/21	Wed 31/3/21 667SS+20 days	669SS+40 days	100%	14/1 31/3
69	C132SI-19000		Sheetpile Installation Stage 2	338, (204),	(35), (151), (155), (166)	70 days	Mon 8/3/21	Tue 15/6/21	Mon 8/3/21	Tue 15/6/21 668SS+40 days		100%	8/3 15/6
70	C132SE-02000		Drainage & Sewerage Works		245	232 days	Tue 23/3/21	Mon 3/1/22	Tue 23/3/21	Mon 3/1/22	683	100%	23/3 3/1
71	C132SI-20000		Excavation Works Stage 2	338, (204)	(35)	20 days	Tue 23/3/21	Mon 19/4/21	Tue 23/3/21	Mon 19/4/21	672	100%	23/3 19/4
72	C132SE-02010		Trench Excavation and ELS works	(204), (228)	(162), (308), (312), (332)	90 days	Tue 20/4/21	Fri 6/8/21	Tue 20/4/21	Fri 6/8/21 671	673	100%	20/4 6/8
73	C132SE-02020		Pipe Laying Works		(312), (314), (332), (322), (364)	100 days	Thu 15/7/21	Thu 11/11/21	Thu 15/7/21	Thu 11/11/21 672	674	100%	15/7 11/11
74	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 3/1/22 673		100%	12/11 🔳 3/1
75	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	683	100%	10/5
76	C132SE-02042		CLP cable diversion works within SWHSTW and along San Wan Road by others		(EWN210)(148)	14 days	Mon 10/5/21	Wed 26/5/21	Mon 10/5/21	Wed 26/5/21		100%	10/5 ▮ 26/5
77	C132SE-02043		CLP cable works along & across San Wan Road		(320), (363)	11 days	Tue 30/11/21	Sat 11/12/21	Tue 30/11/21	Sat 11/12/21		100%	30/11 11/12
78	C132SE-02044		CLP cable connection to LV transformer Room (by CLP)			185 days	Sat 12/6/21	Mon 13/12/21	Sat 12/6/21	Mon 13/12/21	679,680	100%	12/6 13/12
79	C132SE-02050		Road Works		(307), (309), (313), (333), (344), (3	4554 days	Tue 14/12/21	Mon 21/2/22	Tue 14/12/21	Mon 21/2/22 678		100%	14/12 21/2
80	C132SE-02060		Road Carriageway Works			18 days	Tue 14/12/21	Fri 31/12/21	Tue 14/12/21	Fri 31/12/21 678	681SS+20 days,662	100%	14/12 31/12
81	C132SE-02070		Footpath works			50 days	Mon 3/1/22	Mon 21/2/22	Mon 3/1/22	Mon 21/2/22 680SS+20 days	690	100%	3/1 21/2
82	C132SE-03000	KD2A	Construction of New Boundary Wall		(155)	135 days	Sat 8/5/21	Tue 4/1/22	Sat 8/5/21	Tue 4/1/22 646	695	100%	8/5 4/1
83	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 663,661,662,665,670,675	45FF,695	43%	22/2 20/7
84	C132SE-04100		Coordination with CLP & SWHSTW to identify alignment & levels to suit site			118 days	Thu 31/3/22	Tue 26/7/22	Thu 31/3/22	Tue 26/7/22	685	100%	31/3 26/7
85	C132SE-04200		UU Detection/ Trial Pit Works			40 days	Wed 27/7/22	Sun 4/9/22	Wed 27/7/22	Sun 4/9/22 684	686,692	100%	27/7 4/9
86	C132SE-04300		Confirmation on Extent of works			15 days	Fri 26/8/22	Fri 9/9/22	Fri 26/8/22	Fri 9/9/22 685	687	100%	26/8 9/9
87	C132SE-04400		Material ordering & Delivery on Site			120 days	Sat 10/9/22	Sun 8/1/23	Sat 10/9/22	NA 686	688SS+60 days	0%	10/9 8/1
88	C132SE-04500		Construct Cable Ducts & Draw Pits			275 days	Mon 5/9/22	Wed 7/6/23	Mon 5/9/22	NA 687SS+60 days	689FF+43 days	0%	5/9
89	C132SE-04600		Reinstatement Works			60 days	Sun 21/5/23	Thu 20/7/23	NA	NA 688FF+43 days		0%	21/5 20/7
90	C132SE-02080		Highway Lighting Works - Coordination with Highways Department			164 days	Tue 22/2/22	Fri 9/9/22	Tue 22/2/22	Fri 9/9/22 681	48FF	100% 1month	22/2 9/9
91	C132SE-05000		Additional Trial Pit and Inspection Pit for Stage 2 Geotechnical Works		393	137.8 days	Fri 26/8/22	Tue 10/1/23	Fri 26/8/22	NA	695	72%	26/8 10/1
92	C132SE-05100		Apply XP			75 days	Fri 26/8/22	Thu 24/11/22	Fri 26/8/22	Thu 24/11/22 685	693	100%	26/8 24/11
93	C132SE-05200		TTA (RMO/TD Approval)			13 days	Thu 24/11/22	Thu 8/12/22	Thu 24/11/22	NA 692	694	50%	24/11 8/12
94	C132SE-05300		Additional Trial Pit and Inspection Pit Works			25 days	Fri 9/12/22	Tue 10/1/23	Fri 9/12/22	NA 693		0%	9/12 10/1
,95	C132SE-06000		Inspection and Handover to DSD			57 days	Thu 20/7/23	Fri 15/9/23	NA	NA 664,682,683,691	48FF,45FF	0%	20/7 = 15/9

Page 8

	ng Plant - Main Works Stage 1	h i love		lo					Works Programme (Status Date: 31/07/2021)	F	lv o			
ctivity ID Key Date	Task Name	Inclement Weather (NCE no.) Baseline Durati	on Baseline Start	Baseline Finish	Duration	Start	Finish .	Actual Start A	ctual Finish Predecessors Successors	Total Slack Risk Allowance	% Complete	. 2020	. 2022	. 2024
D-1000	Contract Dates	(NCE no.) 1585 days	Mon 18/11/19	Thu 27/3/25	1651.5 days	Mon 18/11/19	Fri 13/6/25	Mon 18/11/19	NA	88.5 days	Otr 3 Otr 1	1 Otr 3 Otr 1	Qtr 3	Qtr 1 Qtr 3 Qtr 1
D-1010 AD-1000	Starting Date Access Dates (cal. day)	0 days 310 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Wed 23/9/20	0 days 289 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Wed 2/9/20	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 8,9,13FS+290 days,14F Wed 2/9/20	S+311 days 0 days	100% • 18/11			
D-1010 D-1020	Portion B-1 (Access Road AR3)	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20 2 201	0 days	100% • 10/1	-	I I I	
	Portion B-1A (Area for the works for Sidestream Treatment Facilities by Others	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Fri 10/1/20	Fri 10/1/20		Fri 10/1/20 2	0 days			I I I I I I I I I I I I I I I I I I I	
D-1030 D-1040	Portion B-2 (Inlet Works No.1) Portion B-2A (Area for the pipe-jacking works by others)	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days 0 days	Fri 10/1/20 Fri 10/1/20	Fri 10/1/20 Fri 10/1/20		Fri 10/1/20 2 295,306 Fri 10/1/20 2	0 days	100% • 10/1 100% • 10/1		1 I	
I-1050 I-1060	Portion B-3 (Primary Sedimentation Tanks No. 1-4) Portion B-4 (Bioreactor No. 2A & 2B)	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 2 335 Mon 18/11/19 2 353	0 days 0 days	100% • 18/11 100% • 18/11		1 I	1
-1070	Portion B-5 (Membrane Facilities Building No.2)	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Tue 17/3/20	Tue 17/3/20	Tue 17/3/20	Tue 17/3/20 2 402,419,425	0 days	100%	17/3		
-1080 -1090	Portion B-6 (SAS Pumping Station) Portion B-7 (Ancillary structures)	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 2 434 Mon 18/11/19 2 461	0 days 0 days	100% • 18/11 100% • 18/11			
D-1100 D-1110	Portion B-7A (Alternation works for existing Power House)	0 days	Wed 2/9/20 Tue 22/9/20	Wed 2/9/20 Tue 22/9/20	0 days	Wed 2/9/20	Wed 2/9/20 Wed 26/8/20	Wed 2/9/20	Wed 2/9/20 2FS+290 days 539FS-1 day,29FS+179 Wed 26/8/20 2FS+311 days 541FS-1 day	days 0 days	100%	◆ 2/9◆ 26/8		
-1020	Portion B-8 (Alternation for existing Membrane Facilities Building No.1) Portion B-8A (Alternation of air supply main for existing Air Blower House No.2)	0 days 0 days	Mon 18/11/19	Mon 18/11/19	0 days 0 days	Wed 26/8/20 Mon 18/11/19	Mon 18/11/19		Mon 18/11/19 2 532	0 days 0 days	100% 🔷 18/11	₩ 20/0	I I I	
-1130	Portion B-9 (remainder works in Zone B)	0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2 542,556	0 days	100% • 18/11		1 I 1 I	
1140	Portion B-9A (Area for the pipe-jacking works by others) Portion B-9B (Area for underground pipework modification and connection	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	0 days 0 days	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 Mon 18/11/19	Mon 18/11/19 2 Mon 18/11/19 2	0 days 0 days	100% • 18/11 100% • 18/11		1 I I I I I I I I I I I I I I I I I I I	
	works by others)												1 I	
1160	Portion B-9C (Area for the works for pipeworks) Key Dates (cal. day)	0 days 1440 days	Wed 22/7/20 Tue 19/11/19	Wed 22/7/20 Sat 28/10/23	0 days	Fri 24/7/20 Fri 27/11/20	Fri 24/7/20 Mon 15/1/24	Fri 24/7/20 Fri 27/11/20	Fri 24/7/20 2FS+151 days NA	0 days 618 days	100% 99%	♦ 24/7		15/1
-1010 -1020	KD1A completion of AR3 in Portion B-1 (375 days after starting date) KD1B completion of utilities diversion for commencement of Inlet Works	300 days 360 days	Tue 19/11/19 Tue 19/11/19	Sun 13/9/20 Thu 12/11/20	0 days 1 day	Fri 27/11/20 Sat 30/1/21	Fri 27/11/20 Sat 30/1/21	Fri 27/11/20 Sat 30/1/21	Fri 27/11/20 2FS+376 days Sat 30/1/21 2FS+439.5 days	0 days 0 days	100%	♦ 27/11		
	No.1 in Portion B-2 (438.5 days after starting date)							Odt 00/1/21			10076	1		
-1030	KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2 (1068.5 days after starting date)	n 990 days	Tue 19/11/19	Thu 4/8/22	0 days	Sat 22/10/22	Sat 22/10/22	NA	NA 2FS+1069.5 days 67	1056.5 days	0%		↑ 22/10	I I
1040	KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)	1190 days	Tue 19/11/19	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA 2FS+1191 days 70	947 days	0%		♦ 20/2	1
1050	KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1140days after starting date)	1140 days	Tue 19/11/19	Sun 1/1/23	0 days	Sun 1/1/23	Sun 1/1/23	NA	NA 2FS+1141 days	997 days	0%			1
1060	KD1F completion of civil and structural works of MFB from B2 floor to 1st	800 days	Tue 19/11/19	Wed 26/1/22	0 days	Wed 23/3/22	Wed 23/3/22	NA	NA 2FS+856.5 days 74	1273.5 days	0%		♦ 23/3	
1070	floor level in Portion B-5 (855.5 days after starting date) KD1G completion of civil and structural works of MFB in Portion B-5 (1002.	.5 950 days	Tue 19/11/19	Sat 25/6/22	0 days	Wed 17/8/22	Wed 17/8/22	NA	NA 2FS+1003.5 days 78	1126.5 days	0%		♦ 17/8	
1080	days after starting date) KD1H completion of civil and structural works of SAS Pumping Station in		Tue 19/11/19	Mon 9/8/21	0 days	Fri 22/10/21	Fri 22/10/21	NA.	NA 2FS+704.5 days 82	1425.5 days	0%		1	
	Portion B-6 (703.5 days after starting date)							14.	·		0/0		1 1	
1090	KD1I completion alternation works for existing Power House in Portion B-74 (179days after access date of B-7A)	A 150 days	Fri 4/9/20	Sun 31/1/21	1 day	Mon 1/3/21	Mon 1/3/21	Mon 1/3/21	Mon 1/3/21 13FS+179 days	0 days	100%	I	1	1
1100	KD1J completion of auxiliary facilities in Portion B-7 (811.5 days after starting date)	800 days	Tue 19/11/19	Wed 26/1/22	0 days	Mon 7/2/22	Mon 7/2/22	NA	NA 2FS+812.5 days 86	1317.5 days	0%		7/2	I I
1110	KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (577.5 days after starting date)	495 days	Tue 19/11/19	Sat 27/3/21	0 days	Fri 18/6/21	Fri 18/6/21	Fri 18/6/21	Fri 18/6/21 2FS+578.5 days 93	0 days	100%	♦ 18	B/6	1
-1120	KD2B completion of air supply main alternation to existing air blower house	e 420 days	Tue 19/11/19	Mon 11/1/21	0 days	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21 2FS+495 days	0 days	100%	♦ 26/3		İ
1130	No.2 in Portion B-8A (494 days after starting date) KD3A completion of all utilities and road works (1519 days after starting	1440 days	Tue 19/11/19	Sat 28/10/23	0 days	Mon 15/1/24	Mon 15/1/24	NA	NA 2FS+1520 days 99	606 days	0%			♦ 15/1
1000	date) Completion Date (cal. Day)	1956 days	Tue 19/11/19	Thu 27/3/25	1056 days	Sat 23/7/22	Fri 13/6/25	Sat 23/7/22	NA NA	50.5 days	00/			l.
1010	Section 1 of the Works (1,543.5 after starting date)	1460 days	Tue 19/11/19	Fri 17/11/23	0 days	Fri 9/2/24	Fri 9/2/24	NA	NA 2FS+1544.5 days 105	0 days	0%			♦ 9/2
-1020 -1030	Section 2 of the Works (977.5 after starting date) Section 3 of the Works (1,667.5 after starting date)	900 days 1590 days	Tue 19/11/19 Tue 19/11/19	Fri 6/5/22 Tue 26/3/24	0 days 0 days	Sat 23/7/22 Wed 12/6/24	Sat 23/7/22 Wed 12/6/24	NA Wed 12/6/24	NA 2FS+978.5 days 111 NA 2FS+1668.5 days 39FS+1 day,117,38FS+	0 days 1 day -77.5 days	99%		♦ 23/7	
-1040 -1050	Defects Liability Period	365 days	Wed 27/3/24	Thu 27/3/25	365 days	Thu 13/6/24	Fri 13/6/25	NA NA	NA 37FS+1 day	0 days	0%		1 I	
000 *	Landscape Establishment Works Planned Completion	365 days 1686 days	Wed 27/3/24 Fri 14/8/20	Thu 27/3/25 Thu 27/3/25	365 days 1820 days	Thu 13/6/24 Wed 30/9/20	Fri 13/6/25 Wed 24/9/25	NA Wed 30/9/20	NA 37FS+1 day	103.5 days 0 days	3%			
0-1000 * 0-1010 KD1A	Planned Completion - Key Dates (cal. day) KD1A completion of AR3 in Portion B-1 (300days after starting date)	1170 days 0 days	Fri 14/8/20 Sat 12/9/20	Sat 28/10/23 Sat 12/9/20	1321 days 0 days	Wed 30/9/20 Wed 30/9/20	Mon 13/5/24 Wed 30/9/20		NA Wed 30/9/20 210FF	-119 days 0 days	99% 100%	♦ 30/9		•
-1020 KD1B	KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)	0 days	Fri 14/8/20	Fri 14/8/20	0 days	Fri 22/1/21	Fri 22/1/21	Fri 22/1/21	Fri 22/1/21 286FF,291FF,273FF	0 days	100%	♦ 22/1		
-1030 KD1C	, , , , , , , , , , , , , , , , , , ,					TD 4/11								
	KD1C completion of civil and structural works of Inlet Works No.1 in Portion	n 0 days	Thu 4/8/22	Thu 4/8/22	0 days	Thu 1/12/22	Thu 1/12/22	NA	NA 330FF,322FF,248FF,294FF,212FF,250FF	-40 days	0%		♦ 1/12	
1040 KD1D	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation	0 days	Thu 4/8/22 Mon 20/2/23	Thu 4/8/22 Mon 20/2/23	0 days	Thu 1/12/22 Mon 20/2/23	Thu 1/12/22 Mon 20/2/23	NA NA	NA 330FF, 322FF, 248FF, 294FF, 212FF, 250FF NA 349FF, 348FF, 351FF, 333FF	-40 days	0%		↑ 1/12	
	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date)	0 days	Mon 20/2/23	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23		NA 349FF,348FF,351FF,333FF	0 days	0%			
1050 KD1E	B-2 (990days after starting date) KDID completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KDIE completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date)	0 days	Mon 20/2/23 Sat 31/12/22	Mon 20/2/23 Sat 31/12/22	0 days	Mon 20/2/23 Sat 22/4/23	Mon 20/2/23 Sat 22/4/23	NA NA	NA.349FF,348FF,351FF,333FF NA.391FF,397FF,393FF,396FF,392FF	0 days -111 days	0%			
1050 KD1E	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4	0 days	Mon 20/2/23	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF	0 days	0%			
1050 KD1E 1060 KD1F	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1E completion of civil and structural works of MFB from B2 floor to 1st	0 days	Mon 20/2/23 Sat 31/12/22	Mon 20/2/23 Sat 31/12/22	0 days	Mon 20/2/23 Sat 22/4/23	Mon 20/2/23 Sat 22/4/23	NA NA	NA.349FF,348FF,351FF,333FF NA.391FF,397FF,393FF,396FF,392FF	0 days -111 days	0%			
-1040 KD1D -1050 KD1E -1060 KD1F -1070 KD1G	B-2 (990days after starting date) KD1D completion of divil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B5 (800days after starting date) KD1G completion of civil and structural works of MFB in Portion B-5	0 days 0 days 0 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22	0 days 0 days 0 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22	NA NA NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF	0 days -111 days -135 days	0%			
1050 KD1E 1060 KD1F 1070 KD1G 1080 KD1H	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date) KD1t completion of civil and structural works of SAS Pumping Station in Portion B-6 (630days after starting date)	0 days 0 days 0 days 0 days 0 days 0 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22	0 days 0 days 0 days 0 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22	NA NA NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 431FF	0 days -111 days -135 days -133 days	0%	♦ 29/1		
1050 KD1E 1060 KD1F 1070 KD1G 1080 KD1H 1090 KD1I	B-2 (990days after starting date) KD1D completion of divil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1G completion of vial and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of vial and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of vial and structural works of SAS Pumping Station in Portion B-6 (800days after starting date)	0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21	0 days 0 days 0 days 0 days 0 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22	NA NA NA NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 431FF NA 459FF,458FF	0 days -111 days -135 days -133 days -148 days	0%	♦ 29/1		
1050 KD1E 1060 KD1F 1070 KD1G 1080 KD1H 1090 KD1I 1100 KD1J	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1E completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1G completion of civil and structural works of MFB in Portion B-5 (850days after starting date) KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (830days after starting date) KD1L completion afternation works for existing Power House in Portion B-7/ (150days after access date of B-7A) KD1J completion of auxiliary facilities in Portion B-7 (800days after starting date)	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22	0 days 0 days 0 days 0 days 1 days 0 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22	NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 431FF NA 459FF,458FF Fri 29'1/21 539FF NA 496FF,495FF,521FF,520FF,513FF,512FF	0 days -111 days -135 days -133 days -148 days 0 days -126 days	0%		↑ 20/2 ↑ 22/4 ↑ 4/8 ↑ 4/8 ↑ 19/3 ↑ 13/6	
1050 KD1E 1060 KD1F 1070 KD1G 1080 KD1H 1090 KD1I 11100 KD1J 11110 KD2A	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date) KD11 completion after starting date) KD11 completion of awaillary facilities in Portion B-7 (800days after starting date) KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-5 (495days after starting date)	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21	0 days 0 days 0 days 0 days 0 days 1 day 0 days 0 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21	NA NA NA NA Fri 29/1/21 NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 431FF NA 459FF,458FF Fri 2911/21 539FF NA 496FF,495FF,521FF,520FF,513FF,512FF NA 545FF,543FF	0 days -111 days -135 days -133 days -148 days 0 days -126 days -47 days	0%			
1050 KD1E 1060 KD1F 1070 KD1G 1080 KD1H 1090 KD1I 1100 KD1J 1110 KD2A	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date) KD11 completion of civil and structural works of SAS Pumping Station in Fortion B-6 (800days after starting date) KD11 completion of auxiliary facilities in Portion B-7 (800days after starting date) KD12 completion of effluent pipes to UV system and connection to its	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22	0 days 0 days 0 days 0 days 1 days 0 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22	NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 431FF NA 459FF,458FF Fri 29'1/21 539FF NA 496FF,495FF,521FF,520FF,513FF,512FF	0 days -111 days -135 days -133 days -148 days 0 days -126 days	0%		↑ 20/2 ↑ 22/4 ↑ 4/8 ↑ 4/8 ↑ 19/3 ↑ 13/6	
1050 KD1E 1060 KD1F 1070 KD1G 1080 KD1H 1090 KD1I 11100 KD1J 11110 KD2A	B-2 (990days after starting date) KD1D completion of divil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1G completion of olvil and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of olvil and structural works of SAS Pumping Station in Portion B-6 (830days after starting date) KD11 completion after after of the Portion B-7 (150days after cascs date of B-7A) KD11 completion of auxiliary facilities in Portion B-7 (800days after starting date) KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date)	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21	0 days 0 days 0 days 0 days 0 days 1 day 0 days 0 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21	NA NA NA NA Fri 29/1/21 NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 431FF NA 459FF,458FF Fri 2911/21 539FF NA 496FF,495FF,521FF,520FF,513FF,512FF NA 545FF,543FF	0 days -111 days -135 days -133 days -148 days 0 days -126 days -47 days	0%		↑ 20/2 ↑ 22/4 ↑ 4/8 ↑ 4/8 ↑ 19/3 ↑ 13/6	♦ 13/5
1050 KD1E 1060 KD1F 1070 KD1G 1080 KD1H 1090 KD1J 1110 KD1J 1110 KD2A 1120 KD2B 1130 KD3A	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date) KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (800days after starting date) KD1L completion of auxiliary facilities in Portion B-7 (800days after starting date) KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date) KD2B completion of air supply main alternation to existing air blower house Na.2 in Portion B-8A (420days after starting date) KD3A completion of all utilities and road works (1440days after starting date) Planned Completion Date (cal. Day)	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 1056 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Fri 6/5/22	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25	0 days 0 days 0 days 0 days 0 days 0 days 1 day 0 days 1 day 0 days 1 day 1 day 1 day	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Fri 26/3/21 Mon 13/5/24 Sat 5/11/22	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Fri 26/3/21 Mon 13/5/24 Wed 24/9/25	NA NA NA NA Fri 29/1/21 NA Fri 26/3/21 NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 431FF NA 459FF,458FF Fri 29'1/21 539FF NA 545FF,521FF,520FF,513FF,512FF NA 545FF,543FF Fri 26'3/21 532FF,536FF,537FF,538FF NA 555FF,557FF NA 555FF,557FF	0 days -111 days -135 days -133 days -148 days 0 days -126 days -47 days 0 days -119 days	0%		↑ 20/2 ↑ 22/4 ↑ 4/8 ↑ 4/8 ↑ 19/3 ↑ 13/6	
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1050 KD1E 1060 KD1F 1070 KD1G 1080 KD1H 1090 KD1H 1100 KD1J 1110 KD2A 1120 KD2B 1130 KD3A 1120 KD2B 1130 KD3A 1000 • SW12 1000 SW12 1000 SW2 1000 S	B-2 (990days after starting date) KD1D completion of divil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B5 (800days after starting date) KD1F completion of civil and structural works of MFB in Portion B-5 (950days after starting date) KD1F completion of vivil and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of vivil and structural works of SAS Pumping Station in Portion B-6 (850days after starting date) KD1H completion of vivil and structural works of SAS Pumping Station in Portion B-6 (850days after starting date) KD1H completion of auxiliary facilities in Portion B-7 (800days after starting date) KD2R completion of elfluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date) KD2R completion of all utilities and road works (1440days after starting date) KD3A completion Date (cal. Day) Section 1 of the Works (1,460 after starting date) Section 3 of the Works (1,590 after starting date) Defects Liability Period Landscape Establishment Works	O days O days O days O days O days O days A O days O days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/6/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Fri 6/5/22 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/9/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25	0 days 0 days 0 days 0 days 0 days 0 days 1 day 0 days 0 days 0 days 0 days 0 days 1054 days 0 days 0 days 0 days 0 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Mon 13/5/24 Sat 5/11/22 Mon 27/11/23 Sat 5/11/22 Tue 24/9/24 Wed 24/9/25 Wed 24/9/25	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Fri 26/3/21 Mon 13/5/24 Wed 24/9/25 Mon 27/11/23 Sat 5/11/22 Tue 24/9/24 Wed 24/9/25 Wed 24/9/25 Wed 24/9/25 Wed 24/9/25	NA NA NA NA NA Fri 29/1/21 NA NA NA ANA NA NA NA NA NA NA NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 430FF NA 459FF,458FF Fn 29/1/21 539FF NA 459FF,458FF,521FF,520FF,513FF,512FF NA 545FF,543FF Fn 26/3/21 532FF,536FF,537FF,538FF NA 555FF,557FF NA NA 552FF,557FF NA NA 522FF,514FF,477FF,504FF,488FF,480FF NA 558FF,559FF,541FF,540FF NA 558FF,559FF,541FF,540FF NA 556FF,559FF,541FF,540FF NA 556FF,559FF,541FF,540FF NA 556FF,559FF,541FF,540FF NA 556FF,530FF NA 556FF NA 556FF,530FF NA 556FF,530FF NA 556FF NA 556FF,530FF NA 556FF NA 556FF,530FF NA 556FF NA 556FF,530FF NA 556FF,530FF NA 556FF NA	0 days -111 days -135 days -133 days -148 days 0 days -126 days -47 days 0 days -119 days -106 days -106 days -106 days -106 days 0 days 0 days 0 days	0% 100% 1 100%		↑ 20/2 ↑ 22/4 ↑ 4/8 ↑ 4/8 ↑ 19/3 ↑ 13/6	> 27/11
1050 KD1E 1060 KD1F 1070 KD1G 1080 KD1H 1090 KD1H 1090 KD1H 1100 KD1J 1110 KD2A 1110 KD2A 1110 KD2A 1110 KD3A 1000 • 1010 SW1 1000 SW1 1010 SW1 1010 SW1 1010 DLP 1010 SW2 1010 SW3 1040 DLP 1050 SW3 1040 DLP 1050 - 1010 - 1010 - 1110 - 1110 - 1110 - 11110 - 11110 - 11110 -	B-2 (990days after starting date) KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1F completion of vivil and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of civil and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of civil and structural works of SAS Pumping Station in Portion B-8 (800days after starting date) KD1I completion of civil and structural works of SAS Pumping Station in Portion B-8 (800days after starting date) KD1 completion of auxiliary facilities in Portion B-7 (800days after starting date) KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date) KD2B completion of all utilities and road works (1440days after starting date) Planned Completion Date (cal. Day) Section 1 of the Works (1,460 after starting date) Section 2 of the Works (1,500 after starting date) Section 3 of the Works (1,500 after starting date) Inclement Weather to KD1C (cal. Day) Delay and Disruption of Works before June 2021	0 days 0 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/6/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Fri 6/5/22 Wed 23/6/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA NA	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 NA	0 days 0 days 0 days 0 days 0 days 0 days 1 day 0 days 1 day 0 days 0 days 1 day 0 days 1 day 0 days 1 day 0 days 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Sat 19/3/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Mon 13/5/24 Mon 27/11/23 Sat 5/11/22 Mon 27/11/23 Sat 5/11/22 Tue 24/9/24 Wed 24/9/25 Fri 18/6/21 Sat 22/10/22 Wed 26/10/22 Wed 26/10/22	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Fri 26/3/21 Mon 13/5/24 Wed 24/9/25 Mon 27/11/23 Tue 24/9/25 Wed 24/9/25 Sun 4/8/24 Wed 14/12/22 Wed 14/12/22 Fri 18/11/22 Fri 18/11/22 Fri 18/11/22	NA NA NA NA NA Fri 29/1/21 NA NA Fri 26/3/21 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA 349FF,349FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 430FF NA 459FF,458FF Fri 29'1/21 539FF NA 496FF,495FF,521FF,520FF,513FF,512FF NA 545FF,543FF Fri 26'3'21 532FF,536FF,537FF,538FF NA 555FF,557FF NA NA 525FF,514FF,477FF,504FF,488FF,460FF NA 549FF,399FF,439FF,332FF,334FF,550FF NA 558FF,559FF,541FF,540FF NA 560FF,153FF NA 560FF NA NA NA NA NA NA NA	0 days -111 days -135 days -133 days -148 days 0 days -126 days -47 days 0 days -119 days -106 days -106 days -105 days 0 days 0 days 0 days 1015.5 days 1015.5 days 1015.5 days	0% 100% 1 100%		◆ 20/2 ◆ 22/4 ◆ 4/8 ◆ 19/3 ◆ 13/6 ◆ 5/11	> 27/11
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1050 KD1E 1050 KD1E 1050 KD1F 1070 KD1G 1080 KD1H 1099 KD1H 1099 KD1H 1110 KD2A 1110 KD2A 1110 KD2A 1110 SW1 1100 SW1 1100 SW1 1100 SW2 1100 SW2 1100 SW2 1110 SW2 1110 SW1 1110 SW1 1110 SW1 1110 SW1 1110 SW1 1110 SW1 1110 SW1 1110 SW1 1110 SW1 1110 SW1 111	B-2 (990days after starting date) KD1D completion of divil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting date) KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6 (830days after starting date) KD1H completion afternation works for existing Power House in Portion B-7/ (150days after access date of B-7A) KD1J completion advantage from the starting date) KD2H completion of auxiliary facilities in Portion B-7 (800days after starting date) KD2A completion of auxiliary facilities in Portion B-7 (800days after starting date) KD2B completion of all supply main afternation to existing air blower house No.2 in Portion B-8 A (420days after starting date) KD3A completion of all utilities and road works (1440days after starting date) Planned Completion Date (cal. Day) Section 1 of the Works (1,460 after starting date) Section 3 of the Works (1,500 after starting date) Section 3 of the Works (1,500 after starting date) Defects Liability Period Landscape Estabishment Works Effects from Inclement Weather and Other Time Affected Events Effects to KD1C Inclement Weather to KD1C (cal. Day) Delay and Disruption of Works before June 2021 Delay and Disruption of Works before June 2021	0 days 0 days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/6/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Fri 6/5/22 Wed 23/6/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA NA NA NA	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Thu 27/3/25 Wed 23/8/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA NA NA NA	0 days 0 days 0 days 0 days 0 days 1 day 0 days 1 day 0 days 0 days 1 day 0 days 1054 days 0 days 0 days 1 day 1054 days 1055 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Wed 28/12/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Fri 26/3/21 Mon 13/5/24 Sat 5/11/22 Mon 27/11/23 Sat 5/11/22 Tue 24/9/24 Wed 24/9/25 Fri 18/6/21 Sat 22/10/22 Wed 26/10/22 Wed 26/10/22 Fri 18/11/22 Fri 18/11/22 Fri 18/11/22 Fri 18/11/22 Fri 18/11/22 Fri 18/11/22 Fri 18/11/22 Fri 18/11/22 Fri 18/11/22	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Fri 26/3/21 Mon 13/5/24 Wed 24/9/25 Mon 27/11/23 Sat 5/11/22 Tre 24/9/25 Wed 24/9/25 Wed 14/12/22 Wed 14/12/22 Wed 14/12/22 Wed 14/12/22	NA NA NA NA Fri 29/1/21 NA NA A A NA NA NA NA NA NA NA NA NA NA	NA 349FF,348FF,351FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 430FF NA 431FF NA 459FF,458FF Fri 291/21 539FF NA 545FF,543FF NA 545FF,543FF NA 545FF,543FF NA 555FF,557FF NA 555FF,557FF NA 555FF,557FF NA 550FF,541FF,477FF,504FF,488FF,460FF NA 549FF,399FF,433FF,352FF,334FF,550FF NA 560FF, NA 560FF, NA 560FF NA 560FF NA 560FF NA NA NA NA NA NA NA NA NA NA	0 days -111 days -135 days -133 days -148 days 0 days -126 days -126 days -126 days -190 days -119 days -106 days -106 days -106 days -105 days 0 days 0 days 0 1015.5 days 1015.5 days 1015.5 days 1015.5 days	0% 100% 1 100%		◆ 20/2 ◆ 22/4 ◆ 4/8 ◆ 19/3 ◆ 13/6 ◆ 5/11	> 27/11
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.1050 KD1E .1060 KD1E .1060 KD1F .1070 KD1G .1080 KD1H .1090 KD1 .1090 KD1 .1100 KD1J .1110 KD2A .1110 KD2A .1110 SW1 .1110 SW	B-2 (990days after starting date) KD1D completion of divil and structural works of Primary Sedimentation Tanks in Portion B-3 (1190days after starting date) KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1,140days after starting date) KD1F completion of civil and structural works of MEB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1F completion of civil and structural works of MEB from B2 floor to 1st floor level in Portion B-5 (800days after starting date) KD1G completion of civil and structural works of SAS Pumping Station in Portion B-6 (830days after starting date) KD1L completion of will and structural works of SAS Pumping Station in Portion B-6 (830days after starting date) KD1L completion of auxiliary facilities in Portion B-7 (800days after starting date) KD2A completion of auxiliary facilities in Portion B-7 (800days after starting date) KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9 (495days after starting date) KD2A completion of all utilities and road works (1440days after starting date) KD2A completion of all utilities and road works (1440days after starting date) Section 3 of the Works (1,500 after starting date) Section 3 of the Works (1,500 after starting date) Section 3 of the Works (1,500 after starting date) Section 3 of the Works (1,500 after starting date) Defects Liability Period Landscape Establishment Works Effects from Inciement Weather to KD1C (cal. Day) Delays and Disruption of Works in June 2021 Delay and Disruption of Works in June 2021 Delay and Disruption of Works in June 2021 Delay and Disruption of Works in June 2021 Delay and Disruption of Works in June 2021 Delay and Disruption of Works in June 2021 Effects to KD1D Inclement Weather to KD1F (cal. Day) Delays and Disruption of Works in June 2021 Effects to KD1B Inclement Weather to KD1F (cal. Day) Delay and Disruption of Works in June 2021 Effects to KD1B Inclement Weather to KD1F (cal. Day)	O days O days	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/6/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Fri 6/5/22 Wed 23/9/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 Thu 27/3/25 NA NA NA NA NA NA NA NA NA N	Mon 20/2/23 Sat 31/12/22 Tue 25/1/22 Sat 25/6/22 Mon 9/8/21 Sat 30/1/21 Wed 26/1/22 Sat 27/3/21 Thu 3/9/20 Sat 28/10/23 Fri 6/5/22 Tue 26/3/24 Thu 27/3/25 NA NA NA NA NA NA NA NA NA NA NA NA NA	0 days 0 days 0 days 0 days 0 days 0 days 0 days 1 day 0 days 1 day 0 days 1 day 0 days 1 day 0 days 2 days 4 days	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Wed 28/12/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Fri 26/3/21 Mon 13/5/24 Sat 5/11/22 Mon 27/11/23 Sat 5/11/22 Mon 27/11/23 Sat 5/11/22 Tue 24/9/25 Fri 18/6/21 Sat 22/10/22 Wed 26/10/22 Wed 26/10/22 Wed 26/10/22 Wed 26/10/22 Wed 26/10/22 Wed 26/10/22 Wed 26/10/22 Wed 26/10/22 Wed 26/10/22 Wed 26/10/22 Wed 27/8/22 Wed 23/3/22 Wed 23/3/22 Wed 23/3/22 Wed 23/3/22 Wed 17/8/22 Wed 17/8/22 Wed 17/8/22 Wed 17/8/22 Wed 17/8/22 Wed 17/8/22 Fri 9/9/22 Fri 9/9/22 Fri 22/10/21 Fri 22/10/21 Fri 22/10/21 Fri 22/10/21 Fri 22/10/21	Mon 20/2/23 Sat 22/4/23 Thu 4/8/22 Wed 28/12/22 Fri 29/1/21 Mon 13/6/22 Wed 4/8/21 Fri 26/3/21 Fri 26/3/21 Fri 26/3/21 Fri 26/3/21 Fri 26/3/21 Fri 26/3/21 Fri 26/3/21 Fri 26/3/21 Fri 26/3/21 Fri 26/3/21 Wed 24/9/25 Wed 24/9/25 Wed 24/9/25 Wed 24/9/25 Wed 24/9/25 Wed 24/9/25 Fri 18/11/22 Wed 26/10/22 Wed 26/10/22 Wed 26/10/22 Wed 22/3/23 Mon 20/2/23 Wed 11/5/22 Wed 11/5/22 Wed 5/10/22 Wed 5/10/22 Wed 5/10/22 Fri 19/12/21 Fri 10/12/21 Fri 10/12/21 Fri 10/12/21	NA NA NA NA NA NA Fri 29/1/21 NA NA NA NA NA NA NA NA NA NA NA NA NA	NA 349FF,348FF,331FF,333FF NA 391FF,397FF,393FF,396FF,392FF NA 431FF NA 439FF NA 459FF,458FF Fri 291/21 539FF NA 545FF,543FF Fri 26/3/21 532FF NA 545FF,543FF Fri 26/3/21 532FF,536FF,537FF,538FF NA 555FF,557FF NA NA 552FF,54FF,477FF,504FF,488FF,460FF NA 522FF,514FF,477FF,504FF,488FF,460FF NA 526FF,535FF,537FF NA 560FF NA 560FF,153FF NA 60FF NA NA NA NA NA NA NA NA NA NA NA NA NA N	0 days -111 days -135 days -133 days -134 days -148 days -148 days -148 days -146 days -126 days -147 days -149 days -149 days -156 days -166 days -166 days -166 days -166 days -166 days -166 days -166 days -166 days -166 days -166 days -166 days -166 days -166 days -166 days -166 days -176 days -176 days -176 days -176 days -177 days -177 days -178 days -178 days -179 days -170 days	0% 100% 100% 0% 0% 0% 0% 0% 0%		◆ 20/2 ◆ 22/4 ◆ 4/8 ◆ 19/3 ◆ 13/6 4/8	> 27/11
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ty ID Key	g Plant - Main Works Stage 1 Task Name	Inclement PMI & CE no (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	ctual Start	Actual Finish Predecessors	Successors	Total Slack Risk %				
Date		CE no. (NCE no.)										Allowance	Ot	2020 tr 3 Otr 1 Otr 3 Otr 1	Otr 3	2024 3 Otr 1 Otr 3 Otr 1
I-1100	Inclement Weather to KD1J (cal. Day)		0 days	NA	NA	49 days	Mon 7/2/22	Mon 28/3/22	NA	NA		1276.5 days	0%			1
I-1110	Delay and Disruption of Works before June 2021		0 days	NA	NA	23 days	Mon 7/2/22	Wed 2/3/22	NA		87	1276.5 days	0%	i	i i =	i
I-1120	Delay and Disruption of Works in June 2021		0 days	NA	NA	26 days	Wed 2/3/22	Mon 28/3/22	NA	NA 86		1276.5 days	0%			I I
-1000 A-1100	Effects to KD2A		0 days 0 days	NA NA	NA NA	53 days 49 days	Fri 18/6/21 Tue 22/6/21	Tue 10/8/21 Tue 10/8/21	Fri 18/6/21 Tue 22/6/21	NA NA		1506.5 days 1506.5 days	24% 17%			i
k-1110	Inclement Weather to KD2A (cal. Day) Delay and Disruption of Works before June 2021		0 days	NΔ	NΔ	23 days	Tue 22/6/21	Thu 15/7/21	Tue 22/6/21	NA 93	91	1506.5 days	37%			1
-1120	Delay and Disruption of Works in June 2021		0 days	NA NA	NA NA	26 days	Thu 15/7/21	Tue 10/8/21	NA NA	NA 90		1506.5 days	0%	i ·		i
A-1200	Other Events to KD2A (not all)		0 days	NA	NA	4 days	Fri 18/6/21	Tue 22/6/21	Fri 18/6/21			0 days	100%			1
-1210	Special working arrangement due to COVID-19 in January 2020		0 days	NA	NA	4 days	Fri 18/6/21	Tue 22/6/21	Fri 18/6/21		90	0 days	100%		i i	i
-1000	Effects to KD3A		0 days	NA	NA	53 days	Tue 16/1/24	Fri 8/3/24	NA	NA		565 days	0%			—
N-1100	Inclement Weather to KD3A (cal. Day)		0 days	NA	NA	49 days	Sat 20/1/24	Fri 8/3/24	NA	NA		565 days	0%		i i	
-1110	Delay and Disruption of Works before June 2021		0 days	NA	NA	23 days	Sat 20/1/24	Sun 11/2/24	NA	NA 99	97	565 days	0%	1		
-1120	Delay and Disruption of Works in June 2021		0 days	NA	NA	26 days	Mon 12/2/24	Fri 8/3/24	NA	NA 96		565 days	0%		i i	-
N-1200	Other Events to KD3A (not all)		0 days	NA	NA	4 days	Tue 16/1/24	Fri 19/1/24	NA	NA		565 days	0%	1	! !	ļ i
-1210	Special working arrangement due to COVID-19 in January 2020		0 days	NA	NA	4 days	Tue 16/1/24	Fri 19/1/24	NA	NA 33	96	565 days	0%			1
-1000	Effects to Section 1 of the Works		0 days	NA	NA	53 days	Fri 9/2/24	Tue 2/4/24	NA	NA NA		540.5 days	0%	1	! !	
-1100	Inclement Weather to Section 1 of the Works (cal. Day)		0 days	NA	NA	49 days	Tue 13/2/24	Tue 2/4/24	NA		100	540.5 days	0%			
-1110	Delay and Disruption of Works before June 2021		0 days	NA NA	NA NA	23 days	Tue 13/2/24	Thu 7/3/24	NA NA	NA 105 NA 102	103	540.5 days	0%	T.	I I	
-1120	Delay and Disruption of Works in June 2021		0 days	NA NA		26 days	Thu 7/3/24	Tue 2/4/24	NA NA			540.5 days	0%			1 -
-1200 -1210	Other Events to Section 1 of the Works (not all) Special working arrangement due to COVID-19 in January 2020		0 days 0 days	NA NA	NA NA	4 days	Fri 9/2/24 Fri 9/2/24	Tue 13/2/24 Tue 13/2/24	NA NA	NA NA 35	102	540.5 days 540.5 days	0%	i	i i	i •
1210	Effects to Section 2 of the Works		0 days	NA NA	NA .	4 days	Sat 23/7/22	Wed 14/9/22	NA NA	NA 35	102	1106.5 days	0%	 	-	
1100	Inclement Weather to Section 2 of the Works (cal. Day)		0 days	NA	NA NA	49 days	Sat 23/7/22 Wed 27/7/22	Wed 14/9/22 Wed 14/9/22	NA NA	NA NA		1106.5 days	0%	i		
1110	Delay and Disruption of Works before June 2021		0 days	NA	NA NA	23 days	Wed 27/7/22	Fri 19/8/22	NA NA	NA 111	109	1106.5 days	0%	1		
1120	Delay and Disruption of Works in June 2021		0 days	NA	NA	26 days	Fri 19/8/22	Wed 14/9/22	NA	NA 108		1106.5 days	0%	i		
1200	Other Events to Section 2 of the Works (not all)		0 days	NA	NA	4 days	Sat 23/7/22	Wed 27/7/22	NA	NA		1106.5 days	0%	!	! !	
1210	Special working arrangement due to COVID-19 in January 2020		0 days	NA	NA	4 days	Sat 23/7/22	Wed 27/7/22	NA	NA 36	108	1106.5 days	0%	1		
000	Effects to Section 3 of the Works		0 days	NA	NA	53 days	Wed 12/6/24	Sun 4/8/24	NA			416.5 days	0%	i	i i i	-
100	Inclement Weather to Section 3 of the Works (cal. Day)		0 days	NA	NA	49 days	Sun 16/6/24	Sun 4/8/24	NA	NA		416.5 days	0%	1		H
110	Delay and Disruption of Works before June 2021		0 days	NA	NA	23 days	Sun 16/6/24	Tue 9/7/24	NA	NA 117	115	416.5 days	0%	i	i i	
120	Delay and Disruption of Works in June 2021		0 days	NA	NA	26 days	Tue 9/7/24	Sun 4/8/24	NA	NA 114		416.5 days	0%	!		
200	Other Events to Section 3 of the Works (not all)		0 days	NA	NA	4 days	Wed 12/6/24	Sun 16/6/24	NA	NA		416.5 days	0%	 		i I
1210	Special working arrangement due to COVID-19 in January 2020		0 days	NA	NA	4 days	Wed 12/6/24	Sun 16/6/24	NA	NA 37	114	416.5 days	0%	1	!!!	1
000	Submissions (cal.day)		1564 days	Mon 18/11/19	Wed 28/2/24	1956 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA.		182 days	60%			
1000	Subletting Package		96 days	Mon 18/11/19	Fri 21/2/20	562 days	Mon 18/11/19	Tue 1/6/21	Mon 18/11/19		101	0 days	100%	<u> </u>	i i	i
1010 1020	Prepare & submit subletting procedure PM review and accept subletting procedure		12 days 15 days	Mon 18/11/19 Sat 30/11/19	Fri 29/11/19 Wed 11/12/19	12 days 12 days	Mon 18/11/19 Sat 30/11/19	Fri 29/11/19 Wed 11/12/19	Mon 18/11/19 Sat 30/11/19		121 142,122,125,124,123	0 days 0 days	100%	11		
030	Subletting for demolition works		24 days	Thu 12/12/19	Sat 4/1/20	93 days	Tue 17/12/19	Wed 18/3/20	Tue 17/12/19	Wed 18/3/20 121,154	339,462,295,402,539,359	0 days	100%		i i	
040	Subletting for UU diversion for Inlet Works No.1		24 days	Thu 12/12/19	Sat 4/1/20	78 days	Fri 10/1/20	Fri 27/3/20	Fri 10/1/20	Fri 27/3/20 121	212	0 days	100%		I I	T.
050	Subletting for Inspection pit excavation		0 days	NA	NA	56 days	Thu 19/12/19	Wed 12/2/20	Thu 19/12/19		214,126	0 days	100%	<u></u>		1
060 070	Subletting for Preliminary Works (topographic surveying) Subletting for AR3 access road		14 days 24 days	Thu 12/12/19 Thu 12/12/19	Wed 25/12/19 Sat 4/1/20	54 days 0 days	Fri 20/12/19 Fri 13/12/19	Tue 11/2/20 Tue 11/2/20	Fri 20/12/19 Fri 13/12/19		159,198,129,130,131,127 127,210	0 days 0 days	100%		i i	
1080	Subletting for AH3 access road Subletting for pre-drilling works		24 days 24 days	Thu 12/12/19	Sat 4/1/20 Sat 4/1/20	38 days	Thu 6/2/20	Fri 20/3/20	Thu 6/2/20		127,210 452,342,414,128	0 days	100%	T-	! !	
1090	Subletting for Contractor designer for temporary works and ICE		24 days	Thu 12/12/19	Sat 4/1/20	71 days	Mon 16/12/19	Mon 24/2/20	Mon 16/12/19	Mon 24/2/20 127		0 days	100%	-		
1100	Subletting for independent BIM consultant		24 days	Thu 12/12/19	4/1/120	0 days	Wed 11/12/19	Thu 23/1/20	Wed 11/12/19		193	0 days	100%	- -	ı i	I
1110	Subletting for independent BIM services Subletting for Design, Supply & Install of Temporary Activated Carbon		0 days 0 days	NA NA	NA NA	15 days 0 days	Tue 14/1/20 Fri 13/12/19	Wed 26/2/20 Tue 11/2/20	Tue 14/1/20 Fri 13/12/19		193 132,133	0 days	100%			
	Deodorization Units (E&M Works)		,0		[Judys		.00 . 1/2/20			,	,-	. 55,5	T	i i	İ
G-1130	Subletting for pre-bored H pile works		36 days	Thu 12/12/19	Thu 16/1/20	45 days	Sun 5/7/20	Tue 18/8/20	Sun 5/7/20		343,415,453,309	0 days	100%			
i-1140 i-1150	Subletting for Sheetpile installation works Subletting for ELS works for Inlet Works No.1		0 days	NA Sun E/1/20	NA Eri 21/2/20	45 days	Tue 1/9/20	Thu 15/10/20	Tue 1/9/20		344,455,134,135	0 days	100%			
1150	Subletting for ELS works for Inlet Works No.1 Subletting for ELS works for Membrance Facilities Building and other		48 days 48 days	Sun 5/1/20 Sun 5/1/20	Fri 21/2/20 Fri 21/2/20	85 days 85 days	Fri 16/10/20 Fri 16/10/20	Fri 8/1/21 Fri 8/1/21	Fri 16/10/20 Fri 16/10/20		346,389,456,136,137,138,139,1	0 days 140,40 days	100%		!!!	1
	buildings										,,					
1170	Subletting for structural works for Inlet Works Building		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	Sat 9/1/21		348	0 days	100%	i =	I I	I
1180	Subletting for structural works for Primary Sedimentation Tanks Subletting for structural works for Bioreactors		48 days 48 days	Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 Tue 28/1/20	48 days 48 days	Sat 9/1/21 Sat 9/1/21	Thu 25/2/21 Thu 25/2/21	Sat 9/1/21 Sat 9/1/21		348 391	0 days	100%			1
1200	Subletting for structural works for Membrance Facilities Building		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	Sat 9/1/21		426	0 days	100%		i i	i
1210	Subletting for structural works for SAS pumping house and ancillary structures		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	Sat 9/1/21	Thu 25/2/21 135	141	0 days	100%	-		
1220	Subletting for ABWF works		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Fri 26/2/21	Wed 14/4/21	Fri 26/2/21	Wed 14/4/21 140	332,350,398,460,488,504,514,5	522 · 0 dave	100%			
1230	Subletting for Process Pipeworks, Utilities and Roadworks		48 days	Thu 12/12/19	Tue 28/1/20	150 days	Fri 22/5/20	Sun 18/10/20	Fri 22/5/20		532,549,551,552,553,554,543	0 days	100%		i i	i
1240	Subletting for Landscape Hardworks and Softworks		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Thu 15/4/21	Tue 1/6/21	Thu 15/4/21	Tue 1/6/21 141	559,560	0 days	100%	_		1
-1250	Subletting for Trial dewatering works and installation of additional stop logs at BR2 connon channel due to malfucntioned of existing penstock at FST	3	0 days	NA	NA	15 days	Tue 15/9/20	Tue 29/9/20	Tue 15/9/20	Tue 29/9/20	355	0 days	100%	• i	i i	
	no. 5 and 7 (EWN 055)													!	1 1	
1260	Subletting for Diversion of Power supply for existing Slaghter House pump		0 days	NA	NA	14 days	Mon 21/9/20	Sun 4/10/20	Mon 21/9/20	Sun 4/10/20		0 days	100%			
	station (CE 034)					1								i	i i	· I
1270	Subletting for Decommission of exisiting power and signal systems in leachate Pump station switch room (PMI 039)		0 days	NA	NA	14 days	Mon 21/9/20	Sun 4/10/20	Mon 21/9/20	Sun 4/10/20	439	0 days	100%			
280	Subletting for Diversion of Existing DN250 Leachate Raising Main (PPMI		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		0 days	100%	_		
	025)													!	! !	
1290	Subletting for Construction of Cable trough for CLP 11kv Cable Diversion (PPMI 041)		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20	453	0 days	100%	-		
1300	Subletting for Demolition of Existing Pillar box and its concrete plinth (CE		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20	441	0 days	100%		ļ ļ	Į.
	030)		,-			2. days								_		
310	Subletting for Excavation to locate existing underground cable near SAS Pump Station (PPMI 038)		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20		0 days	100%	•	i i	
1320	Subletting for Diversion of pumping system sewerage (PPMI 083)		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20	446	0 days	100%		! !	
1000	Statutory Submission, Submission and Approval		1564 days	Mon 18/11/19	Wed 28/2/24	1956 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA		182 days	49%			1
1010	Liaison with operator of SWHSTW and obtain their consent of associated		0 days	NA	NA	1584 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA 2	59FF	156 days	30%			
1020	method statement of major activities		24 down	Mon 19/11/10	Wed 11/10/10	04.4	Man 40/44/46	Wood 44/40/46	Man 40/44/	Wed 11/12/10 2	100 105 104		1000/		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
1020 1030	Prepare and submit Subcontractor Management Plan (SMP) Prepare and submit Interface Management Plan		24 days 36 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Mon 23/12/19	24 days 36 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Mon 23/12/19	Mon 18/11/19 Mon 18/11/19		122,125,124	0 days 0 days	100%	<u>.</u> :	i i	
1040	Prepare and submit the TTA plans inside Treatment Plant for UU diversion	1	24 days	Mon 18/11/19	Wed 11/12/19	24 days	Mon 18/11/19	Wed 11/12/19	Mon 18/11/19		201	0 days	100%	- E		
050	and buildings construction		10.4	M 40/44/-	F-100/11/10	40	14- 10	E : 00		E-: 00/44/4C C	450	O days	1000	_ 1		
050	Prepare and submit method statement for UU diversion for Inlet Works No	0.1	12 days	Mon 18/11/19	Fri 29/11/19	12 days	Mon 18/11/19	Fri 29/11/19	Mon 18/11/19	Fri 29/11/19 2	158	0 days	100%	* 1	ļ <u> </u> į	
060	PM review and accept the method statement		12 days	Sat 30/11/19	Wed 11/12/19	0 days	Sat 30/11/19	Wed 11/12/19	Sat 30/11/19	Wed 11/12/19 157	213,214	0 days	100%	•		
070	Prepare and submit combine underground services drawing for PM's revie	w	24 days	Thu 26/12/19	Sat 18/1/20	23 days	Thu 26/12/19	Sat 18/1/20	Thu 26/12/19	Sat 18/1/20 125		0 days	100%	iii	i i	i
080	the alignment Propage and submit method statement for demolition existing structures		24 down	Mon 18/11/19	Wed 11/12/19	66	Mon 18/11/19	Wed 22/1/20	Mon 18/11/19	Wed 22/1/20 2	402,339,462,295,539	0 days	100%			
080 090	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings		24 days 24 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Wed 11/12/19	66 days 197 days	Mon 18/11/19 Mon 18/11/19	Wed 22/1/20 Mon 1/6/20	Mon 18/11/19 Mon 18/11/19		402,339,462,295,539	0 days 0 days	100%			
100	Prepare and submit method statements to MTRC regarding the works with	in	36 days	Mon 18/11/19	Mon 23/12/19	92 days	Sat 1/2/20	Mon 25/5/20	Sat 1/2/20		339,462,539,359	0 days	100%	1	!!!	!
	railing protection boundary													1		
1110	Prepare and submit & approve Safety Management Plan		24 days	Mon 18/11/19	Wed 11/12/19	3 days	Mon 18/11/19		Mon 18/11/19			0 days	100%	1 <u></u>		
120 120a	Prepare and submit Excavation and lateral support (ELS) proposal Prepare and submit Excavation and lateral support (ELS) proposal for Inle	1	24 days 0 days	Mon 10/2/20 NA	Wed 4/3/20 NA	128 days 24 days	Mon 10/2/20 Wed 29/9/21	Tue 16/6/20 Sat 23/10/21	Mon 10/2/20 NA	Tue 16/6/20 2 NA 314SF		0 days 1433 days	100%		! = !	
.Lua	Prepare and submit Excavation and lateral support (ELS) proposal for line Works No.1	.	Jays			z+ uays	**************************************	Ja: 23/10/21	NA	TOUTOF		1-100 days	U 76	1		1
1120b	Prepare and submit Excavation and lateral support (ELS) proposal for		0 days	NA	NA	24 days	Fri 1/7/22	Mon 25/7/22	NA	NA 346SF		1158 days	0%	i	i i •	i I
11200	Primnary Sedimentation tanks No.1-4		0 days	NA	NΔ	24	Que 15/5/00	Madainin	A	NA 200CE		1205 days	00/	1	! ! _	
1120c	Prepare and submit Excavation and lateral support (ELS) proposal for Bioreactor No. 2A&2B		0 days	NA	NA	24 days	Sun 15/5/22	Wed 8/6/22	NA	NA 389SF		1205 days	0%	1		
	Prepare and submit Dewatering proposal for basement construction		24 days	Mon 10/2/20	Wed 4/3/20	165 days	Mon 10/2/20	Thu 23/7/20	Mon 10/2/20	Thu 23/7/20 2		0 days	100%		i i	
1130	the state of the s													I	! !	
														· ·		
130 130a	Prepare and submit Dewatering proposal for basement construction for Inl Works No.1	et	0 days	NA	NA	24 days	Wed 29/9/21	Sat 23/10/21	NA	NA 314SF		1433 days	0%	 		

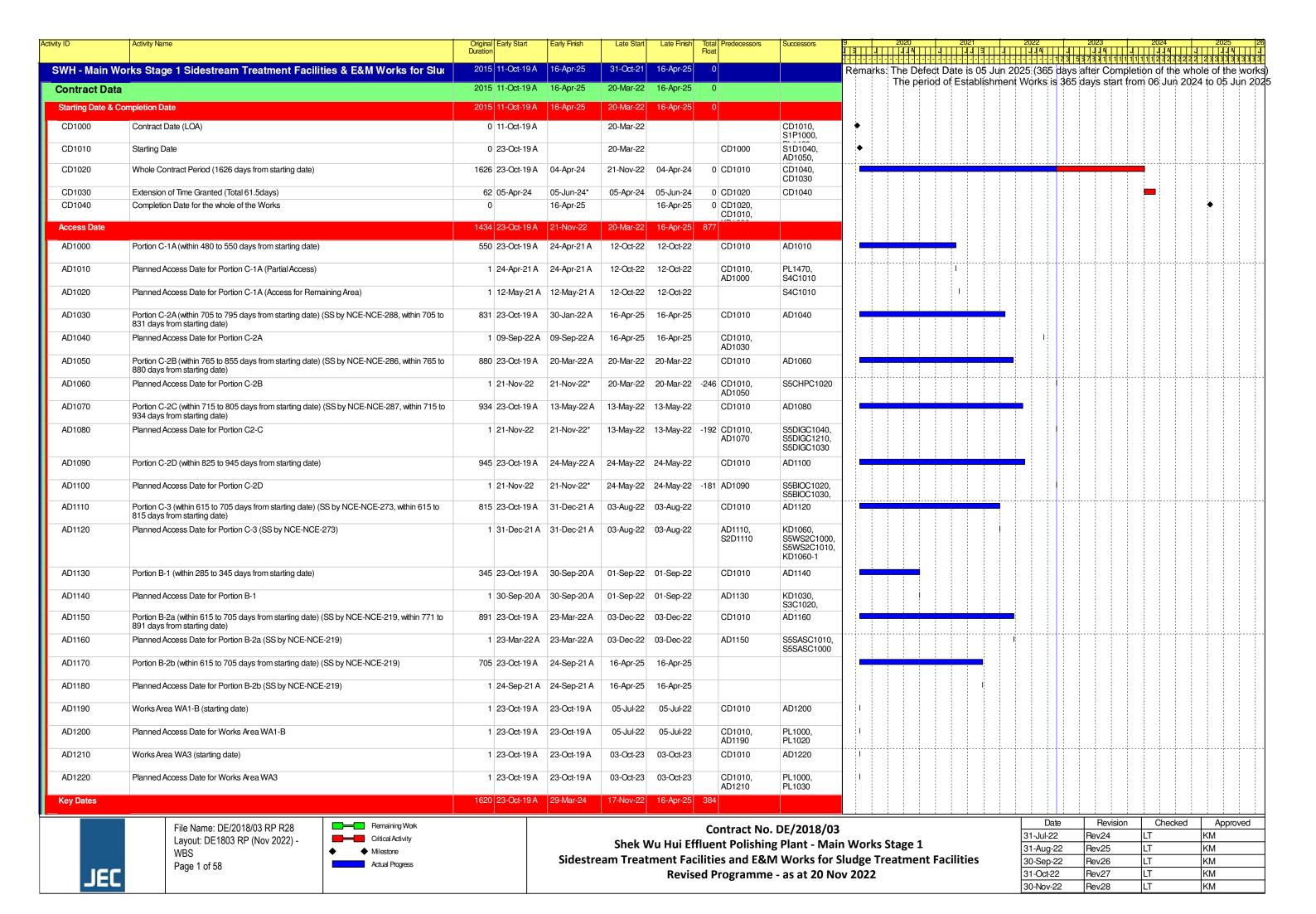
Contract No. DC/2018/07	in New Main World Chang 1								Revised	Works Programme (Status Date: 31/07/2021)						
Shek Wu Hui Effluent Polish ID Activity ID Key	Incleme	nt PMI & CE no.	. Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish /	Actual Start	Actual Finish Predecessors	Successors	Total Slack Risk	% Complete			
Date	Weathe CE no.	r (NCE no.)										Allow	'	tr 3	2022	2024
170 SUBA-1130b	Prepare and submit Dewatering proposal for basement construction for	0.)	0 days	NA	NA	24 days	Fri 1/7/22	Mon 25/7/22	NA	NA 346SF		1158 days	0%	tr 3	Otr 1 Otr 3 Otr 1 Otr 3	Otr 1 Otr 3 Otr 1 Otr 3
171 SUBA-1130c	Primnary Sedimentation tanks No.1-4 Prepare and submit Dewatering proposal for basement construction for		0 days	NA	NA	24 days	Sun 15/5/22	Wed 8/6/22	NA.	NA 389SF		1205 days	0%	i		
470 CUDA 4440	Bioreactor No. 2A&2B		04 days	W 5000	F-: 00 /0 /00								1000/			
172 SUBA-1140	Prepare and submit Pre-construction condition survey of existing structures/ services		24 days	Wed 5/2/20	Fri 28/2/20	0 days	Mon 18/11/19	Fri 6/3/20	Mon 18/11/19	Fri 6/3/20 198		0 days	100%	1	1	
173 SUBA-1150	Prepare and submit Settlement and movement monitoring proposal of existing structures/ services		24 days	Wed 5/2/20	Fri 28/2/20	110 days	Mon 18/11/19	Fri 6/3/20	Mon 18/11/19	Fri 6/3/20 198FS+120 days		0 days	100%	-		
174 SUBA-1160	Prepare and submit design of structure elements of the temporary activated carbon deodourization unit		60 days	Fri 17/1/20	Mon 16/3/20	60 days	Mon 18/11/19	Mon 16/3/20	Mon 18/11/19	Mon 16/3/20 2FS+60 days		0 days	100%	i 🚃	l I	i
175 SUBA-1170	Prepare of RSE and structural design for alternation and additional (A&A)		180 days	Mon 18/10/21	Fri 15/4/22	180 days	Mon 18/10/21	Fri 15/4/22	NA	NA	541	332 days	0%		<u> </u>	
176 SUBA-1180	works at Membrane Facilities Building No.1 Prepare of RSE and structural design for alternation and additional (A&A)		44 doug	Wed 15/7/20	Thu 3/9/20	60 days	Mon 6/7/20	Thu 3/9/20	Mon 6/7/20	Thu 3/9/20	539	O dovo	100%		1	
	works at Main Power House		44 days				WOT 0/7/20				339	0 days		_	į	
177 SUBE-1000 178 SUBE-1010	Environmental Aspect Submissions Prepare, submit & approve Site Management Plan for Trip Tricket		45 days 45 days	Mon 18/11/19 Mon 18/11/19	Wed 1/1/20 Wed 1/1/20	81 days 66 days	Mon 18/11/19 Mon 18/11/19	Thu 6/2/20 Wed 22/1/20		Thu 6/2/20 Wed 22/1/20 2		0 days 0 days	100% 100%			i
	System											, i		i li	I I	
179 SUBE-1020 180 SUBE-1030	Prepare, submit & approve Waste Management Plan Prepare, submit & approve Environmental Management Plan		45 days 45 days	Mon 18/11/19 Mon 18/11/19	Wed 1/1/20 Wed 1/1/20	81 days 66 days	Mon 18/11/19 Mon 18/11/19	Thu 6/2/20 Wed 22/1/20	Mon 18/11/19 Mon 18/11/19	Thu 6/2/20 2 Wed 22/1/20 2		0 days 0 days	100%		1	
181 SUBP-1000 182 SUBP-1010	Procurement		731 days	Mon 18/11/19 Mon 18/11/19	Wed 17/11/21	648 days	Mon 18/11/19	Thu 26/8/21 Tue 19/11/19	Mon 18/11/19 Mon 18/11/19	NA TO 1011111		278 days	94%	•		
182 SUBP-1010 183 SUBP-1020	Prepare and submit the Procurement Procedure PM Review & Accept Procurement Procedure		12 days 12 days	Mon 18/11/19 Sat 30/11/19	Fri 29/11/19 Wed 11/12/19	2 days 21 days	Mon 18/11/19 Tue 19/11/19	Tue 19/11/19		Tue 19/11/19 2 Tue 10/12/19 182	183 184,185,186,187,188,189,190,191	0 days 0 days	100%		I I	
184 SUBP-1030 185 SUBP-1040	Prepare, submit and approve the pipe works material Prepare, submit and approve the water proofing material		25 days 25 days	Thu 12/12/19 Thu 12/12/19	Sun 5/1/20 Sun 5/1/20	34 days 25 days	Thu 6/2/20 Mon 2/8/21	Tue 10/3/20 Thu 26/8/21	Thu 6/2/20 NA	Tue 10/3/20 183 NA 183	212,532,551,552,554,553,549,557 329,325	7,10 days 278 days	100%		1	
186 SUBP-1050	Prepare, submit and approve the water probling material Prepare, submit and approve the concrete mix material		48 days	Thu 12/12/19	Tue 28/1/20	90 days	Mon 3/2/20	Sat 2/5/20		Sat 2/5/20 183	391,426	0 days	100%	:	1	
187 SUBP-1060 188 SUBP-1070	Prepare, submit and approve the rebar material Prepare, submit and approve the metal works material		48 days 48 days	Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 Tue 28/1/20	49 days 48 days	Sat 23/5/20 Tue 1/9/20	Fri 10/7/20 Sun 18/10/20		Fri 10/7/20 183 Sun 18/10/20 183	391,426 391,426	0 days 0 days	100%			
189 SUBP-1080	Prepare, submit and approve the ABWF works material		48 days	Sat 12/12/20	Tue 28/1/20	48 days	Mon 1/3/21	Sat 17/4/21	Mon 1/3/21	Sat 17/4/21 183	332,350,398,460,488,504,514,522		100%		I I	
190 SUBP-1090 191 SUBP-1100	Prepare, submit and approve the protective lining to concrete Prepare, submit and approve the multi-part covers		0 days 0 days	NA NA	NA NA	48 days 21 days	Tue 1/9/20 Tue 5/5/20	Sun 18/10/20 Mon 25/5/20			391,426	0 days 0 days	100%		1	
192 SUBB-1000	BIM		1205 days	Thu 6/2/20	Wed 28/2/24	1562 days	Mon 18/11/19	Fri 28/2/25	Mon 18/11/19	NA		178 days	27%			
193 SUBB-1010	Prepare, submit and approve the proposal of details of Common data environment (CDE)		48 days	Thu 6/2/20	Wed 1/4/20	37 days	Mon 18/11/19	Wed 1/4/20	Mon 18/11/19	Wed 1/4/20 129,130	194	0 days	100%	-		
194	Prepare and submit BIM submission		1484 days	Thu 6/2/20	Wed 28/2/24	1451 days	Thu 2/4/20	Fri 28/2/25	Thu 2/4/20	NA 193		178 days	25%			
195 C-1000 * 196 CPW-1000	Construction Works (Working day) Preliminary Works		1957 days 109 days	Mon 18/11/19 Mon 18/11/19	Thu 27/3/25 Thu 5/3/20	2138 days 121 days	Mon 18/11/19 Mon 18/11/19	Wed 24/9/25 Tue 17/3/20	Mon 18/11/19 Mon 18/11/19			0 days 0 days	51% 100%		1	
197 CPW-1000	Initial Survey Condition Survey		24 days 30 days	Mon 18/11/19 Fri 27/12/19	Sat 14/12/19 Tue 4/2/20	10 days	Mon 18/11/19 Mon 18/11/19	Thu 28/11/19 Fri 6/3/20	Mon 18/11/19	Thu 28/11/19 2 Fri 6/3/20 125.197	198 199,172,173FS+120 days,200	0 days 0 days	100%		1	
199 CPW-3000	Installation of Monitoring Markers		26 days	Wed 5/2/20	Thu 5/3/20	89 days 78 days	Fri 29/11/19	Thu 5/3/20	Fri 29/11/19	Thu 5/3/20 125,197	199,172,173FS+120 days,200	0 days	100%	i i		
200 CPW-4000 201 CAR-0000 *	Tree Felling Works Access Road (AR3), B-1	22, 235	0 days 193 days	NA Mon 20/1/20	NA Sat 12/9/20	9 days 238 days	Sat 7/3/20 Thu 12/12/19	Tue 17/3/20 Wed 30/9/20		Tue 17/3/20 198 Wed 30/9/20 4,156		0 days	100% 100%		1	
202 CAR-1000	Site setup and clearance wroks	05	28 days	Mon 20/1/20	Mon 24/2/20	38 days	Mon 20/1/20	Fri 6/3/20		Fri 6/3/20	203	0 days	100%	· ·	1	
203 CAR-1001	Awaiting for AECOM instruction for alignment confirmation for road works	055	0 days	NA	NA	5 days	Mon 17/2/20	Thu 12/3/20	Mon 17/2/20	Thu 12/3/20 202	204	0 days	100%	1	į	
204 CAR-1002	Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07	215-1	0 days	NA	NA	4 days	Thu 21/5/20	Mon 25/5/20	Thu 21/5/20	Mon 25/5/20 203	205	0 days	100%	i i i	1	i
205 CAR-2000	Drainage and Utilities Works		76 days	Fri 6/3/20	Tue 9/6/20	75 days	Sat 7/3/20	Tue 9/6/20	Sat 7/3/20	Tue 9/6/20 204	206	0 days	100%		1	
206 CAR-2000a	Trimming of Existing Sheet Piles in Access Road AR3	215-2	0 days	NA NA	NA NA	20 days	Tue 14/7/20	Wed 5/8/20		Wed 5/8/20 205	207	0 days	100%		1	
207 CAR-2000b	Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1	215	0 days	NA	NA	7 days	Fri 28/8/20	Fri 4/9/20	Fri 28/8/20	Fri 4/9/20 206	208	0 days	100%	i i		i
208 CAR-2001 209 CAR-2002	Diversion of Existing Underground Cables in Portion B-1A Additional U-channel, beam barrier and footway concrete pavement	036 055	0 days 0 days	NA NA	NA NA	172 days 60 days	Thu 5/3/20 Thu 12/12/19	Wed 30/9/20 Wed 26/2/20			210 210	0 days 0 days	100% 100%	-	I I	
210 CAR-3000 KD1A	Roadworks	033	80 days	Wed 10/6/20	Sat 12/9/20	133 days	Fri 24/4/20	Wed 30/9/20	Fri 24/4/20	Wed 30/9/20 126,209,208	42FF	0 days	100%		1	
211 CIW-0000 * 212 CIW-1000	Inlet Works No.1, B-2 Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge		854 days 180 days	Mon 6/1/20 Mon 6/1/20	Mon 21/11/22 Fri 14/8/20	594 days 459 days	Tue 26/11/19 Tue 26/11/19	Thu 25/11/21 Wed 16/6/21	Tue 26/11/19 Tue 26/11/19	NA NA 184,123	44FF	0 days 111 days	88% 88%		1	
2.2 0.00	Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)		loo days		111 14/0/20	400 00,0	140 20 17 10	1100 10021	140 2011110	13,125	****	··· dayo	3575			i
213 CIW-1100	Utilities scanning to idenify existing UU arrangement		12 days	Mon 6/1/20	Sat 18/1/20	0 days	Fri 13/12/19	Sat 18/1/20	Fri 13/12/19	Sat 18/1/20 158	214SS,216	0 days	100%		1	
214 CIW-1200	Trial pits to locate the collection points		24 days	Mon 6/1/20	Wed 5/2/20	0 days	Mon 6/1/20	Tue 10/3/20		Tue 10/3/20 158,213SS,124	232,251	0 days	100%		1	
215 CIW-1300	Installation and Commissioning of Temporary Activated Carbon Deodorization Unit for the Existing Inlet Works		0 days	NA	NA	98 days	Wed 11/3/20	Sat 11/7/20	Wed 11/3/20	Sat 11/7/20		0 days	100%			
216 CIW-1310 217 CIW-1320	Construction of concrete plinth Installation of Deodorizer		0 days 0 days	NA NA	NA NA	24 days 40 days	Wed 11/3/20 Thu 9/4/20	Wed 8/4/20 Sat 30/5/20	Wed 11/3/20 Thu 9/4/20	Wed 8/4/20 213 Sat 30/5/20 216	217 218	0 days 0 days	100% 100%	_		i
218 CIW-1330	Testing & commissioning		0 days	NA	NA NA	15 days	Mon 1/6/20	Wed 17/6/20	Mon 1/6/20	Wed 17/6/20 217	219FS-1 day	0 days	100%		I I	
219 CIW-1340 220 CIW-1400	Demolishment of the existing carbon deodorization unit Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete		0 days 146 days	NA Thu 6/2/20	NA Mon 3/8/20	20 days 451 days	Wed 17/6/20 Mon 9/3/20	Sat 11/7/20 Mon 13/9/21	Wed 17/6/20 Mon 9/3/20	Sat 11/7/20 218FS-1 day		0 days	100% 97%		1	
	pipe, 4 deep manholes and Inlet Reception Chamber)		110 00,0									,-				
221 CIW-1405	Joint Initial Survey arrangement with MTRCL		0 days	NA	NA	24 days	Thu 19/11/20	Wed 16/12/20	Thu 19/11/20	Wed 16/12/20	222	0 days	100%	i i		i
222 CIW-1410	Remedial Works for uncharted sludge Pipe leakage	41	0 days	NA	NA	8 days	Mon 9/3/20	Tue 17/3/20		Tue 17/3/20 221	223	0 days	100%		1	
223 CIW-1420 224 CIW-1421	Diversion of uncharted DN250 sludge pipe Diversion of uncharted 2' water pipe	24	0 days 0 days	NA NA	NA NA	27 days 9 days	Tue 31/3/20 Wed 15/4/20	Thu 7/5/20 Fri 24/4/20		Thu 7/5/20 222 Fri 24/4/20 223	230,224,225 230	0 days 0 days	100%	T	1	
225 CIW-1422 226 CIW-1423	Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works	32	0 days 0 days	NA NA	NA NA	1 day 135 days	Sat 18/4/20 Sat 10/10/20	Sat 18/4/20 Wed 24/3/21		Sat 18/4/20 223 Wed 24/3/21		0 days 0 days	100% 100%			
227 CIW-1423a	Exposing, Removal and Diversion of Existing Cables near Inlet Works	236	0 days	NA NA	NA NA	268 days	Mon 4/5/20	Wed 24/3/21				0 days	100%		İ	i
228 CIW-1424	No. 1 Diversion of Existing Sludge Rising Main and Sewerage System	81	0 davs	NA	NA	102 days	Mon 28/9/20	Sat 30/1/21	Mon 28/9/20	Sat 30/1/21	307,309,279,280	0 days	100%		I I	
229 CIW-1425	Demolition of Deodorization System and Facilities between Existing	037	0 days	NA	NA	1 day	Fri 28/8/20	Fri 28/8/20			. , , , , , , .	0 days	100%		1	
230 CIW-1430	Primary Sludge Thickeners and Primary Sludge Pump Pit Removal of concrete surround and uncharted sludge pipe	030	0 days	NA	NA	20 days	Fri 24/4/20	Tue 19/5/20	Fri 24/4/20	Tue 19/5/20 223,224	231	0 days	100%		1	
231 CIW-1440	Remedial works for uncharted pipe and unforeseen water seepage	273	0 days	NA	NA	10 days	Fri 8/5/20	Tue 19/5/20			232,233	0 days	100%	•		
232 CIW-1450	Trench Excavation for 1800mm dia pipeline and manholes		146 days	Thu 6/2/20	Mon 3/8/20	238 days	Wed 11/3/20	Mon 28/12/20		· ·		0 days	100%		I I	
233 CIW-1450a	Sheetpile installation (on hold due to identification of uncharted obstruction)	28	0 days	NA	NA	80 days	Wed 11/3/20	Thu 18/6/20	Wed 11/3/20	Thu 18/6/20 231	234	0 days	100%		1 1	1
234 CIW-1450b	Trench Excavation for 1800mm dia pipeline and manholes	0.5	45 days	Thu 6/2/20	Sat 28/3/20	22 days	Thu 18/6/20	Wed 15/7/20	Thu 18/6/20	Wed 15/7/20 233	235,247	0 days	100%		1	1
235 CIW-1450c	Identification of uncharted concrete surround and pipes near MHA01	28	0 days	NA	NA	29 days	Thu 16/7/20	Tue 18/8/20	Thu 16/7/20	Tue 18/8/20 234	238,243,247	0 days	100%	-		
236 CIW-1450d	Removal of existing DSD drawpits near IRC & exposure of CLP cables with installation of additional temporary support	215-2	0 days	NA	NA	26 days	Thu 16/7/20	Fri 14/8/20	Thu 16/7/20	Fri 14/8/20		0 days	100%	-	1 1	1
237 CIW-1450e	Removal of uncharted concrete surround and pipes near MHA01	(045)	0 days	NA	NA	10 days	Fri 7/8/20	Tue 18/8/20	Fri 7/8/20	Tue 18/8/20	238,243	0 days	100%	• I	[
238 CIW-1450f	and Sheetpile installation Revised type of pipe bedding between Manholes no. MHA01 and	096	0 days	NA	NA	6 days	Sat 3/10/20	Fri 9/10/20	Sat 3/10/20	Fri 9/10/20 237,235	239	0 days	100%			
	MHA02														T T	
239 CIW-1450g	Replace top soil with Grade 200 Rockfill below Formation level of the proposed pipe between MHA01 and MHA02	079	0 days	NA	NA	3 days	Mon 10/8/20	Wed 12/8/20	Mon 10/8/20	Wed 12/8/20 238	241	0 days	100%		 	
240 CIW-1450h	Grade 200 Rockfill in ELS cofferdam of IRC	(161)	0 days	NA Man 2010/00	NA Eri 10/0/00	3 days	Wed 23/12/20	Mon 28/12/20			241	0 days	100%		1	
241 CIW-1451	Construct M/H MHA01, MHA02, MHA04 and Inlet Reception Chamber		65 days	Mon 30/3/20	Fri 19/6/20	395 days	Wed 20/5/20	Mon 13/9/21	Wed 20/5/20	NA 239,243,242,244,240	283	-135 days	91%			
242 CIW-1452 243 CIW-1453	Enlarged size of Manhole MHA02 Additional Works for Manhole MHA01 Construction and Pipe	052 (094) (146)	0 days 0 days	NA NA	NA NA	6 days 160 days	Tue 1/9/20 Wed 16/9/20	Mon 7/9/20 Wed 31/3/21	Tue 1/9/20 Wed 16/9/20	Mon 7/9/20 Wed 31/3/21 235,237	241 241	0 days 0 days	100% 100%	<u> </u>	I I	
	Connection to Manhole MHA01														 	
244 CIW-1454	Additional Works for IRC and Pipe Connection to IRC from Existing Manhole FMH1004115	(096)	0 days	NA	NA	17 days	Fri 18/9/20	Fri 9/10/20	Fri 18/9/20	Fri 9/10/20	245,247,241	0 days	100%	• i		
245 CIW-1455	Removal of left-in sheetpiles at IRC	381 065	0 days	NA NA	NA NA	3 days	Mon 19/10/20	Wed 21/10/20				0 days	100%	$ \cdot $	i I	
246 CIW-1456 247 CIW-1457	Compliance Test for DN1800 Precast Concrete Pipe Lay 1800mm dia concretre pipe	UDD	0 days 24 days	NA Sat 20/6/20	NA Mon 20/7/20	1 day 88 days	Fri 18/9/20 Thu 17/9/20	Fri 18/9/20 Mon 25/1/21	Fri 18/9/20 Thu 17/9/20	Fri 18/9/20 Mon 25/1/21 234,235,244	248	0 days 0 days	100%		1 1	
248 CIW-1458	Connection to existing Inlet Chamber		12 days	Tue 21/7/20	Mon 3/8/20	12 days	Tue 26/1/21	Mon 8/2/21	Tue 26/1/21	Mon 8/2/21 247	307,44FF	0 days	100%	<u> </u>	• 1	
249 CIW-1500	Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain		150 days	Thu 6/2/20	Fri 7/8/20	594 days	Tue 26/11/19	Thu 25/11/21		NA		-99 days	94%		1	
250 CIW-1510 KD1B	Diversion of Tank Drain MHD9.5 (approx. 70m CHES1 & CHES2)		150 days	Thu 6/2/20	Fri 7/8/20	406 days	Tue 26/11/19	Mon 12/4/21	Tue 26/11/19	Sat 10/4/21 278	307,44FF	0 days	100%	1	I I	
251 CIW-1500a	Diversion of Tank Drain MHD9.5 to MHA04 (approx. 70m		150 days	Thu 6/2/20	Fri 7/8/20	406 days	Tue 26/11/19	Mon 12/4/21	Tue 26/11/19	Sat 10/4/21 214		0 days	100%		 	
	675mm dia conrete pipe, 24m DN250 DI leachate rising main, 90m CHES1&S2 DN250 CI)													į li	1	
																2
Data Date: 31/07/2021										Page 3						Revision Date: 15/08/2021

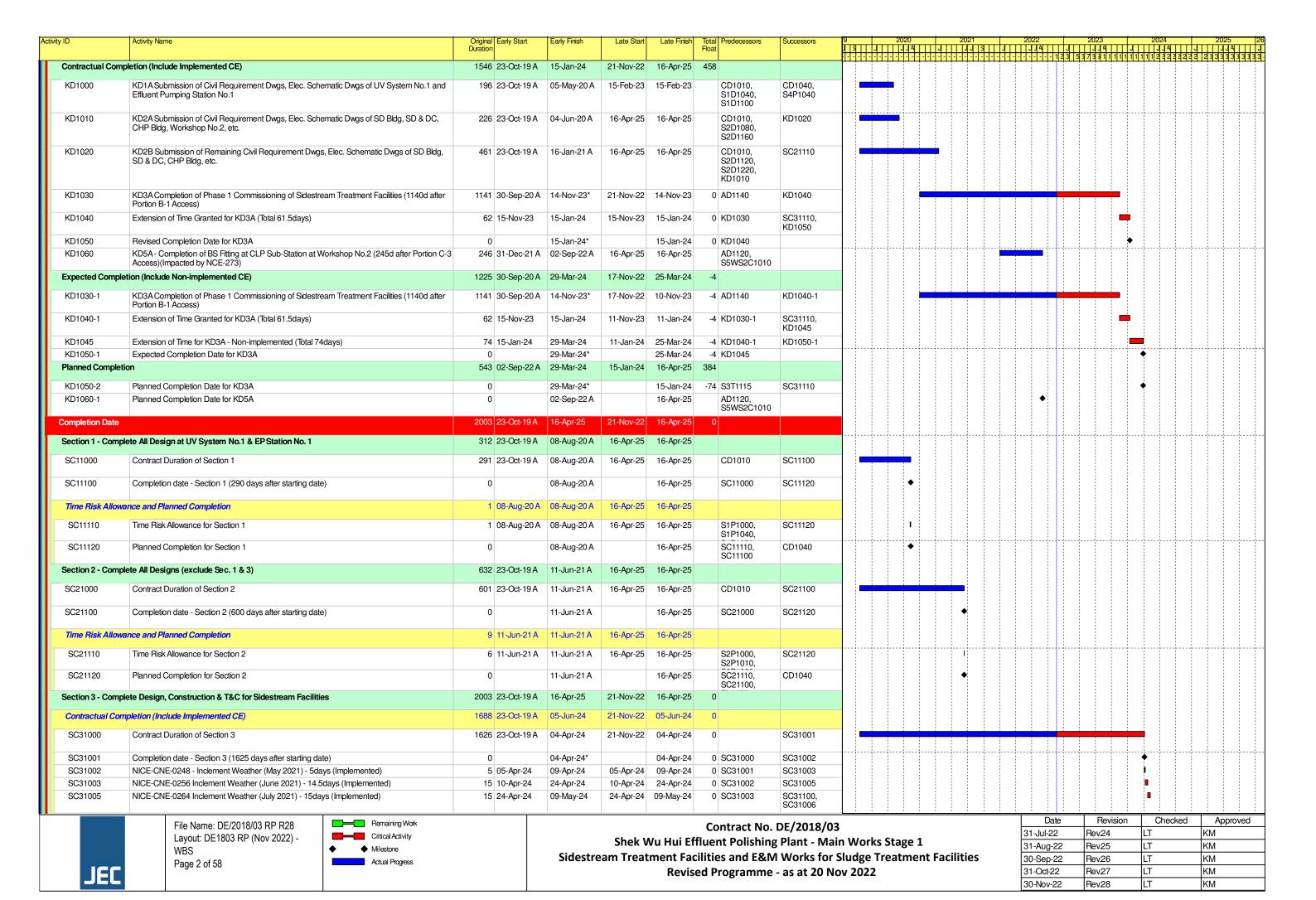
ontract No. DC/2018/07 hek Wu Hui Effluent Polishing										Works Programme (Status Date: 31/07/2021)					
ID Activity ID Key Date	isk Name	Inclement PMI & CE no. (NCE no.)	. Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	ctual Start	Actual Finish Predecessors	Successors	Total Slack	Risk Allowance % Complete	2000	
252 CIW-1500b	Joint Initial Survey arrangement with MTRCL	CE no. (NCE no.)	0 days	NA	NA	158 days	Tue 26/11/19	Wed 10/6/20	Tue 26/11/19	Wed 10/6/20		0 days	Otr 3	Otr 1 Otr 3 Otr 1	Otr 3
253 CIW-1500c	Site Clearance & inspection pit excavation under conforming alignments		0 days	NA	NA NA	36 days	Fri 12/6/20	Sat 25/7/20	Fri 12/6/20			0 days	100%	-	
54 CIW-1511	Tank Drain Diversion near MTRCL track		0 days	NA	NA	248 days	Thu 11/6/20	Mon 12/4/21	Thu 11/6/20			0 days	100%		
255 CIW-1511a 256 CIW-1511b	Excavation of trial pit near MHD9.5 (TP45 & 47) Uncharted cables found near MTRC track and identification	040	0 days 0 days	NA NA	NA NA	12 days 1 day	Mon 27/7/20 Thu 18/6/20	Sat 8/8/20 Thu 18/6/20	Mon 27/7/20 Thu 18/6/20	Sat 8/8/20 Thu 18/6/20 255	256,260	0 days 0 days	100%		
257 CIW-1511c 258 CIW-1511d	Excavation of trial pit near MHD8.5 Lower the ground surface, opening and additional trial pit	(046)	0 days 0 days	NA NA	NA NA	5 days 60 days	Fri 19/6/20 Thu 11/6/20	Wed 24/6/20 Fri 21/8/20	Fri 19/6/20 Thu 11/6/20		258 259	0 days 0 days	100%	<u> </u>	
	(TP38)	(,		1							233	,	1		
259 CIW-1511e 260 CIW-1511f	Excavation of Trial Pits near Manhole MHA04 and MH09 Additional Trial Pit between MHD9.5 and MHA04	040 040	0 days 0 days	NA NA	NA NA	60 days 25 days	Thu 11/6/20 Fri 21/8/20	Fri 21/8/20 Fri 18/9/20	Thu 11/6/20 Fri 21/8/20	Fri 21/8/20 258 Fri 18/9/20 255		0 days 0 days	100%	_	
261 CIW-1511g 262 CIW-1511h	Sheetpile installation for MHD9.5 Sheetpile installation between MHD9.5 & MHA04		0 days 0 days	NA NA	NA NA	38 days 25 days	Tue 1/9/20 Tue 8/9/20	Fri 16/10/20 Thu 8/10/20	Tue 1/9/20 Tue 8/9/20			0 days 0 days	100% 100%		
263 CIW-1511i	UU supporting & ELS works& excavatuib between MHD9.5 & MHA04	1	0 days	NA	NA	73 days	Wed 7/10/20	Mon 4/1/21	Wed 7/10/20			0 days	100%		
264 CIW-1511j	Unsuit excavated material from MHD9.5 to MHA04	261	0 days	NA	NA	4 days	Fri 20/11/20	Tue 24/11/20	Fri 20/11/20			0 days	100%	1	
265 CIW-1511k 266 CIW-1511I	Revise design of manhole MHD9.5 Break up opening and plugging existing concrete pipe at	(167)	0 days 0 days	NA NA	NA NA	20 days 6 days	Thu 7/1/21 Mon 18/1/21	Fri 29/1/21 Sat 23/1/21	Thu 7/1/21 Mon 18/1/21			0 days 0 days	100%		
267 CIW-1511I1	MHD9.5 Trimming existing concrete pipe at MHD9.5		0 days	NΔ	NΔ	13 days	Fri 22/1/21	Fri 5/2/21	Fri 22/1/21	Fri 5/2/21		0 days	100%		
268 CIW-1511I2	Construction of manhole MHD9.5		0 days	NA NA	NA NA	49 days	Sat 6/2/21	Sat 10/4/21	Sat 6/2/21	Sat 10/4/21		0 days	100%	_	
269 CIW-1511m 270 CIW-1511n	Additional work to prevent backflow from MHI1 to MHD9.5 Sewage overflow incident of MHD11	(176)	0 days 0 days	NA NA	NA NA	9 days 9 days	Mon 18/1/21 Sat 13/2/21	Wed 27/1/21 Thu 25/2/21	Mon 18/1/21 Sat 13/2/21	Wed 27/1/21 Thu 25/2/21		0 days 0 days	100%	100	
271 CIW-1512 272 CIW-1513	Additional Special manhole for tank drain (NCE) Breaking of concrete surround of cables (0.8mx0.8mx70m)		0 days 0 days	NA NA	NA NA	35 days 24 days	Mon 24/8/20 Tue 8/9/20	Mon 5/10/20 Wed 7/10/20	Mon 24/8/20 Tue 8/9/20		272,273	0 days 0 days	100%	=	
	(NCE)			1											
273 CIW-1514 KD1B	Construction of tank drain along revised alignment w/ concrete surround	051	0 days	NA	NA	10 days	Tue 5/1/21	Fri 15/1/21	Tue 5/1/21	Fri 15/1/21 271	43FF,307	0 days	100%		
274 CIW-1516 275 CIW-1520	Backfilling trench between MHD9.5 & MHA04 Diversion of Studge Pipes		0 days 75 days	NA Tue 21/4/20	NA Tue 21/7/20	20 days 364 days	Sat 16/1/21 Mon 11/5/20	Mon 8/2/21 Thu 29/7/21	Sat 16/1/21 Mon 11/5/20	Mon 8/2/21 NA		0 days 0 days	100% 96%		
276 CIW-1520a	Excavation of trial pit and identification of connection point	351	0 days	NA	NA	103 days	Mon 11/5/20	Wed 9/9/20	Mon 11/5/20		277	0 days	100%		
277 CIW-1520b	Trench excavation for twin DN250 sludge pipe ,on hold due to encounter of uncharted sludge pipe	351	75 days	Tue 21/4/20	Tue 21/7/20	4 days	Wed 15/7/20	Sat 18/7/20	Wed 15/7/20		278	0 days	100%	T.	
278 CIW-1520c	Additional hole drilling works and identification of connetion point		0 days	NA	NA	53 days	Mon 20/7/20	Fri 18/9/20	Mon 20/7/20	Fri 18/9/20 277	250	0 days	100%	_	
279 CIW-1520d	Temporary diversion of substandard DI 250 Leachate raising mai	n 202	0 days	NA	NA	127 days	Tue 20/10/20	Wed 24/3/21	Tue 20/10/20	Wed 24/3/21 228		0 days	100%	_	
280 CIW-1520e	Protection work for substandard DI 500 tank drain Pipe (near MH	D 302	0 days	NA	NA	93 days	Wed 18/11/20	Fri 12/3/21	Wed 18/11/20	Fri 12/3/21 228		0 days	100%	I	
281 CIW-1520f	9.5) Encounter of uncharted concrete pipe within sheetpile cofferdam	at	0 days	NA	NA	2 days	Tue 10/11/20	Wed 11/11/20	Tue 10/11/20	Wed 11/11/20	282	0 days	100%	1	
282 CIW-1520g	MHA04 Resumption and construction of sludge pipe construction		0 days	NA	NA	253 days	Sat 19/9/20	Thu 29/7/21	Sat 19/9/20	NA 281	307,44FF	-36 days	91%		
283 CIW-1530	Diversion of Leachate Rising Main		60 days	NA Tue 21/4/20	NA Fri 3/7/20	60 days	Tue 14/9/21	Thu 25/11/21	NA	NA 241	JU/,44FF	-135 days	0%		
284 CIW-1600	Diversion of pipelines near Primary Sludge Thickeners (approx. 180m long 150mm to 375mm concrete pipes)		156 days	Thu 6/2/20	Fri 14/8/20	570 days	Tue 26/11/19	Thu 28/10/21	Tue 26/11/19	NA		0 days	55%	•	
285 CIW-1610	Trench Excavation from M/H MHD1E to MHD5 (approx. 90m long wi	th 87	60 days	Thu 6/2/20	Mon-20/4/20	0 days	Tue 26/11/19	Tue 26/11/19	Tue 26/11/19	Tue 26/11/19		0 days	100% 🔷 26	5/11	
286 CIW-1620	Manholes construction and Pipe laying - omitted	87	60 days	Mon 30/3/20	Sat 13/6/20	0-days	Tue 2/6/20	Tue 2/6/20	Tue 2/6/20	Tue 2/6/20	43FF,291	0-days	100%	♦ 2/6	
287 CIW-1621 288 CIW-1623	Temporary Diversion of Existing DN200 Filitrate Rising Main Pipeline Diversion Works near Primary Sludge Thickening Tank	(114)	0 days 0 days	NA NA	NA NA	20 days 30 days	Sat 1/8/20 Fri 16/4/21	Mon 24/8/20 Sat 22/5/21	Sat 1/8/20 Fri 16/4/21	Mon 24/8/20 Sat 22/5/21 287	288 289	0 days 0 days	100%		
289 CIW-1625	Uncharted underground utilities near Proposed MHD5B	0260	0 days	NA	NA 5-1 0/7/00	26 days	Mon 24/5/21	Wed 23/6/21	Mon 24/5/21	Wed 23/6/21 288	290,293	0 days	100%		
290 CIW-1630	Trench Excavation from M/H (approx. 90m long with M/Hs M1A to M3B)		60 days	Tue 21/4/20	Fri 3/7/20	32 days	Thu 19/3/20	Wed 29/4/20	Thu 19/3/20		291,292	0 days	100%	_	
291 CIW-1640 292 CIW-1650	Manholes construction (M1A, M1B, M2B, M3B) and Pipe laying Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with	(114)	25 days 50 days	Mon 15/6/20 Thu 16/7/20	Wed 15/7/20 Fri 11/9/20	12 days 60 days	Mon 4/5/20 Wed 2/9/20	Sat 16/5/20 Wed 30/12/20	Mon 4/5/20 Wed 2/9/20		43FF	0 days 0 days	100%		
293 CIW-1660	M/Hs MHD5A & 5B)	87		NΔ	NA		Tue 10/11/20		Tue 10/11/20	NA 289	294	-111 days	75%		
294 CIW-1670	Provision of Pumping System from Screen to Flume Channel Manholes construction (MHD5A, MHD5B, MHD5C) and Pipe laying	87	0 days 45 days	Sat 23/5/20	Thu 16/7/20	287 days 293 days	Tue 3/11/20	Thu 28/10/21 Thu 28/10/21	Tue 3/11/20	NA 293	294 44FF	-111 days	8%	(A)	
295 CIW-2000	Decommission and Demolition of Existing Faciliates and Structures		240 days	Mon 2/3/20	Fri 18/12/20	222 days	Thu 19/3/20	Tue 15/12/20	Thu 19/3/20	Tue 15/12/20 6,122,160		0 days	100%		
296 CIW-2100	Primary Sludge Thickening Tank No.1 and No.2		80 days	Mon 2/3/20	Tue 9/6/20	222 days	Thu 19/3/20	Tue 15/12/20	Thu 19/3/20		292	0 days	100%		
297 CIW-2101	Additional Works for Temporary Diversion of Bypass Pipe near Primary Sludge Thickeners		0 days	NA	NA	45 days	Thu 19/3/20	Sun 17/5/20	Thu 19/3/20	Sun 17/5/20		0 days	100%	1	
298 CIW-2110 299 CIW-2120	Removal of E&M equipment of primary sludge thickening tank Decommission and Demolition the tank		0 days 80 days	NA Mon 2/3/20	NA Tue 9/6/20	1 day 150 days	Thu 4/6/20 Thu 18/6/20	Thu 4/6/20 Tue 15/12/20	Thu 4/6/20 Thu 18/6/20	Thu 4/6/20 Tue 15/12/20 298	299 301	0 days 0 days	100%		
300 CIW-2130 301 CIW-2200	Demolition of structure no.2 Primary Sludge Pump Pit		0 days 60 days	NA Wed 10/6/20	NA Thu 20/8/20	24 days 18 days	Mon 18/5/20 Wed 22/7/20	Mon 22/6/20 Tue 11/8/20	Mon 18/5/20 Wed 22/7/20	Mon 22/6/20	302,303,292,304	0 days	100%		
302 CIW-2300	Septic Tank		50 days	Fri 21/8/20	Tue 20/10/20	18 days	Wed 22/7/20 Wed 12/8/20	Tue 1/9/20	Wed 22/7/20 Wed 12/8/20	Tue 1/9/20 301	302,303,292,304	0 days 0 days	100%	- N	
303 CIW-2400 304 CIW-2410	Diesel Tank Transfers of Remaining Diesel Fuel of Existing Diesel Tank		50 days 0 days	Wed 21/10/20 NA	Fri 18/12/20 NA	53 days 15 days	Thu 2/7/20 Thu 2/7/20	Tue 1/9/20 Tue 21/7/20	Thu 2/7/20 Thu 2/7/20		292 305	0 days 0 days	100%		
305 CIW-2420	Demolition of diesel tank		50 days	Wed 21/10/20	Fri 18/12/20	18 days	Wed 12/8/20	Tue 1/9/20	Wed 12/8/20	Tue 1/9/20 304	292	0 days	100%		
306 CIW-3000 * 307 CIW-3100	Inlet Works No.1 Building (1) Predrilling (10nrs, 1rigs, 2.5days/drillhole/rig) - stage 1		569 days 40 days	Sat 19/12/20 Mon 4/1/21	Mon 21/11/22 Mon 22/2/21	747 days 28 days	Tue 15/9/20 Tue 15/9/20	Thu 23/3/23 Mon 19/10/20	Tue 15/9/20 Tue 15/9/20	NA 6 Mon 19/10/20 248,250,273,228,282		748 days 0 days	1 100%		
308 CIW-3100a 309 CIW-3200	Predrilling (22nrs, 1rigs, 2.5days/drillhole/rig) - stage 2 Pre-bored H piles (188nos, 1.8rigs, 2days/rig/pile)		0 days 133 days	NA Tue 23/2/21	NA Wed 4/8/21	60 days 210 days	Tue 8/12/20 Fri 19/2/21	Mon 22/2/21 Tue 2/11/21	Tue 8/12/20 Fri 19/2/21	Mon 22/2/21 NA 228,132	310SS+150 days,311	0 days	100% 5 63%		
310 CIW-3400a	Pile Load Test at stage 1		26 days	Thu 5/8/21	Fri 3/9/21	21 days	Sat 21/8/21	Tue 14/9/21	NA	NA 309SS+150 days	312	83 days	0%		
311 CIW-3400b 312 CIW-3300a	Pile Load Test at stage 2 & 3 Sheetpile Installation at Phase C(900sq.m, 1rigs, 50sqm/rig/day)		0 days 80 days	NA Tue 23/3/21	NA Wed 30/6/21	21 days 30 days	Wed 3/11/21 Wed 15/9/21	Fri 26/11/21 Fri 22/10/21	NA NA	NA 310	328,313 315	-34 days 83 days	0%		
313 CIW-3300b 314 CIW-3500	Sheetpile Installation at Phase B (2300sq.m, 1rigs, 50sqm/rig/day) ELS works		0 days 77 days	NA Sat 4/9/21	NA Mon 6/12/21	50 days 157 days	Sat 27/11/21 Sat 23/10/21	Thu 27/1/22 Fri 6/5/22	NA NA	NA 311	316 334,165SF,169SF	-34 days 3 days	0% 5 0%		
315 CIW-3510	Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding (strutting 2 layers, excavate soil 2250 cu.m)	ng	77 days	Fri 4/6/21	Mon 6/12/21	77 days	Sat 23/10/21	Mon 24/1/22	NA NA		320,333	83 days	0%		
316 CIW-3520	Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding (struttin	g	77 days	Fri 4/6/21	Mon 6/12/21	77 days	Fri 28/1/22	Fri 6/5/22	NA	NA 313	324	-34 days	0%		
317 CIW-3590	4 layers, excavate soil 11000cu.m) Receiving of Civil Requirements from PM		0 days	NA	NA	1 day	Mon 30/8/21	Mon 30/8/21	NA	NA 318SS-3 emons		1211 days	0%		
318 CIW-3600	R.C. Structure works		296 days	Thu 5/8/21	Thu 4/8/22	300 days	Sat 27/11/21	Thu 1/12/22	NA	NA NA	317SS-3 emons,332	-34 days	5 0%		
319 CIW-3610 320 CIW-3611	Phase C (Grid G3 to L7) Rebar fix and formwork and concreting for the pile cap (G/F)		105 days 40 days	Thu 5/8/21 Thu 5/8/21	Wed 8/12/21 Mon 20/9/21	105 days 40 days	Tue 25/1/22 Tue 25/1/22	Tue 7/6/22 Tue 15/3/22	NA NA	NA NA 315	321	114 days 114 days	0%		
321 CIW-3612	(including ELS demolition works) Rebar fix and formwork and concreting upto +13.45mPD (1/F)		25 days	Tue 21/9/21	Fri 22/10/21	25 days	Wed 16/3/22	Thu 14/4/22	NA.	NA 320	322	114 days	0%		
322 CIW-3613 KD1C	Rebar fix and formwork and concreting upto +25.80mPD (R/F)		40 days	Sat 23/10/21	Wed 8/12/21	40 days	Tue 19/4/22	Tue 7/6/22	NA NA	NA 321	44FF,331,524	114 days	0%		
323 CIW-3620 324 CIW-3621	Phase B (Gride A1 to G3) Rebar fix and formwork and concreting for the Inlet Works structure		193 days 54 days	Tue 7/12/21 Tue 7/12/21	Thu 4/8/22 Mon 14/2/22	173 days 54 days	Sat 7/5/22 Sat 7/5/22	Thu 1/12/22 Tue 12/7/22	NA NA	NA NA 316	325	-34 days -34 days	0%		
325 CIW-3622	upto Ground Level (including ELS demolition works) Apply waterproofing membrance and backfilling		14 days	Tue 15/2/22	Wed 2/3/22	14 days	Wed 13/7/22	Thu 28/7/22	NA.	NA 324,185	326	-34 days	0%		I I
326 CIW-3623 KD1C	Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level		105 days	Thu 3/3/22	Thu 4/8/22	105 days	Fri 29/7/22	Thu 1/12/22	NA NA	NA 325	331	-34 days	0%		222223
327 CIW-3630	Phase A (G1 to L3)		193 days	Tue 7/12/21	Thu 4/8/22	173 days	Sat 27/11/21	Sat 2/7/22	NA	NA		93 days	0%		
328 CIW-3631	Rebar fix and formwork and concreting for the Inlet Works structure upto Ground Level (including ELS demolition works)		54 days	Tue 7/12/21	Mon 14/2/22	54 days	Sat 27/11/21	Fri 4/2/22	NA	NA 311	329	93 days	0%		★
329 CIW-3632	Apply waterproofing membrance and backfilling		14 days	Tue 15/2/22	Wed 2/3/22	14 days	Sat 5/2/22	Mon 21/2/22	NA	NA 328,185	330	93 days	0%		
330 CIW-3633 KD1C	Rebar fix and formwork and concreting for the Inlet Works structure upto Roof Level		105 days	Thu 3/3/22	Thu 4/8/22	105 days	Tue 22/2/22	Sat 2/7/22	NA	NA 329	332,44FF,331	93 days	0%		
331 CIW-3700 KD1C	Allow access to Contractor DE/2018/04 for E&M installation and T&C work	s	0 days	Thu 4/8/22	Thu 4/8/22	0 days	Thu 1/12/22	Thu 1/12/22	NA	NA 330,322,326	44FF	-34 days	0%		♦ 1/12
332 CIW-3800 SW1	ABWF works + BS works		90 days	Fri 5/8/22	Mon 21/11/22	90 days	Fri 2/12/22	Thu 23/3/23	NA	NA 330,189,141,318	56FF	262 days	0%		
333 CIW-3900 KD1D 334 CIW-4000 SW2	Process Pipe CHE chainage 0-20 & CHF chainage 0-20 Remaining sewerage and utilities in Portion B1 & B2		0 days 0 days	NA NA	NA NA	50 days 60 days	Sat 17/12/22 Sat 7/5/22	Mon 20/2/23 Tue 19/7/22	NA NA	NA 315,351FF NA 314	45FF 57FF,555	0 days 3 days	0%		
335 CPS-0000 * 336 CPS-1000	Primary Sedimentation Tanks, B-3 (2)		1115 days	Mon 18/11/19	Wed 23/8/23	1115 days	Mon 18/11/19	Wed 23/8/23	Mon 18/11/19	NA 8	·	139 days	44% 100%		I
337 CPS-1100	Operation of the Existing Primary sedimentation Tanks Identification of existing cables near Primiary Sedimentation Tank	88	615 days 0 days	Mon 18/11/19 NA	Sat 24/7/21 NA	615 days 3 days	Mon 18/11/19 Fri 19/2/21	Sat 24/7/21 Mon 22/2/21	Mon 18/11/19 Fri 19/2/21		339,338	0 days 0 days	100%	1	
338 CPS-1200 339 CPS-2000	Removal of residual sludge Demolition of existing primary sedimentation tanks no. 1		0 days 45 days	NA Mon 13/12/21	NA Wed 9/2/22	12 days 30 days	Mon 26/7/21 Mon 9/8/21	Sat 7/8/21 Sat 11/9/21	NA NA	NA 336 NA 122,160,162,336,338	339 342,340	-62 days -62 days	0%		♥
340 CPS-2000a	Demolition of existing primary sedimentation tanks no. 2		0 days	NA	NA	25 days	Mon 13/9/21	Wed 13/10/21	NA	NA 339	342	-62 days	0%		I 🖾
341 CPS-3000a	Predrilling (5nrs, 1rigs, 3days/drillhole/rig) - In-advanced stage		0 days	NA	NA	15 days	Thu 8/4/21	Sat 24/4/21	Thu 8/4/21	Sat 24/4/21	343	0 days	100%		The state of the s

Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing	ıı Plant - Main Works Stage 1								Revised	d Works Programme (Status Date: 31/07/2021)						
ID Activity ID Key Date	Fask Name Inc.	clement PMI & CE no (NCE no.)	b. Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	actual Start	Actual Finish Predecessors	Successors	Total Slack	Allowance	2020	Otr 3	2024
342 CPS-3000	Predrilling (63nrs, 3rigs, 3days/drillhole/rig)	ICE no.)	38 days	Thu 10/2/22	Fri 25/3/22	38 days	Fri 15/10/21	Sat 27/11/21	NA	NA 127,452,339,340	343	-62 days	1 0%	Otr 3 Otr 1 Otr 3 Otr 1	drs dr1 drs dr1 drs	
343 CPS-4000 344 CPS-5000	Pre-bored H piles (205nos, 2.5rigs, 2days/pile/rig) Sheetpile Installation (FSP-II, 3360sq.m, 1rigs, 50sqm/rig/day)		102 days 85 days	Sat 26/3/22 Wed 25/5/22	Mon 1/8/22 Fri 2/9/22	164 days 42 days	Mon 29/11/21 Thu 5/5/22	Wed 22/6/22 Fri 24/6/22	NA NA		344FS-40 days,346,345 346,352SS+27 days	-62 days	5 0%		<u> </u>	
345 CPS-6000	Pile Load Test		26 days	Tue 2/8/22	Wed 31/8/22	26 days	Thu 23/6/22	Sat 23/7/22	NA	NA 343	346	0 days	0%	I I		ı
346 CPS-7000 347 CPS-7900	ELS works (20000cu.m soil with 2 layers wailing / strutting) Receiving of Civil Requirements from PM		45 days 0 days	Sat 3/9/22 NA	Fri 28/10/22 NA	60 days 1 day	Mon 25/7/22 Thu 7/7/22	Wed 5/10/22 Thu 7/7/22	NA NA		347FF-3 emons,348,166SF,170S 348SS-3 emons	SF 0 days 186 days	3 0%	!		
348 CPS-8000 KD1D	R.C. Structure works (including ELS demolition works)		92 days	Sat 29/10/22	Mon 20/2/23	112 days	Thu 6/10/22	Mon 20/2/23	NA	NA 137,346,347SS-3 emons	349,350,45FF,351FF	0 days	3 0%	i	<u></u>	
349 CPS-9000 KD1D 350 CPS-10000 SW1	Allow access to Contractor DE/2018/04 for E&M installation and T&C works ABWF works + BS works		0 days 150 days	Mon 20/2/23 Tue 21/2/23	Mon 20/2/23 Wed 23/8/23	0 days 150 days	Mon 20/2/23 Tue 21/2/23	Mon 20/2/23 Wed 23/8/23	NA NA		45FF 56FF	0 days 139 days	0%	1	♦ 20/2	
351 CPS-11000 KD1D	Flowmeter Chamber no.1		60 days	Tue 21/2/23	Sat 6/5/23	60 days	Tue 6/12/22	Mon 20/2/23	NA	NA 348FF	45FF,333FF	0 days	0%			
352 CPS-12000 SW2	Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHI chainage 0-95 & CHJ chianage 0-40 and surrounding utilities		0 days	NA	NA	100 days	Wed 8/6/22	Thu 6/10/22	NA	NA 344SS+27 days	57FF,555	-62 days	0%		SSSSSS	I
353 CBR-0000 *	Bioreactors No.2A & 2B, B-4 (3)		1106 days	Mon 18/11/19	Sat 12/8/23	1194 days	Mon 18/11/19	Mon 27/11/23	Mon 18/11/19	NA 9		546 days	38%	1		
354 CBR-1000 355 CBR-2000	Operation of 2no. Existing 800mm air mains over bioreactor no.2 Construction of Removable Steel Shutter in the Common Channel of BR2	07	360 days	Mon 18/11/19	Wed 11/11/20	292 days	Mon 18/11/19 Thu 1/10/20	Wed 11/11/20 Fri 15/1/21	Mon 18/11/19 Thu 1/10/20		205	0 days	100%			
355 GBH-2000	and 3	67	0 days	NA	NA .	86 days	THU 1/10/20	FII 13/1/21	THU 1/10/20	Ffi 15/1/21 144	365	0 days	100%			I
356 CBR-4100	Take Down E&M Equipment & cables in Bioreactor BR2 and Return to DSD	95	0 days	NA	NA	90 days	Thu 15/10/20	Mon 1/2/21	Thu 15/10/20	Mon 1/2/21	366	0 days	100%			
357 CBR-4200	Installation of monitoring points before demolition of BR2	219	0 days	NA	NA	5 days	Wed 27/1/21	Mon 1/2/21	Wed 27/1/21	Mon 1/2/21 363	358	0 days	100%	i i i	i i	
358 CBR-4300 359 CBR-5000	Condition Survey for BR2 Demolition of existing bioreactor no.2		0 days 60 days	NA Wed 3/2/21	NA Tue 20/4/21	1 day 98 days	Fri 30/10/20 Tue 10/11/20	Fri 30/10/20 Wed 10/3/21	Fri 30/10/20 Tue 10/11/20		366	0 days 0 days	100%			I
360 CBR-5100	Identification and removal of existing cables on air main pipe bridge	210	0 days	NA NA	NA	35 days	Tue 10/11/20	Sat 19/12/20	Tue 10/11/20		361,365	0 days	100%			
361 CBR-5300 362 CBR-5200	Plugging and demolition of existing DN800 air main	264	0 days	NA NA	NA NA	5 days	Mon 28/12/20 Fri 4/12/20	Sat 2/1/21	Mon 28/12/20 Fri 4/12/20		366	0 days	100% 100%	<u> </u>	i i	
363 CBR-5400	Diversion of existing lighting cable and Earthing ducts_stage 1 Overflow incident from BR1 to BR2 works area no.1 (Dec 2020)	285	0 days 0 days	NA NA	NA NA	43 days 33 days	Fri 18/12/20	Tue 26/1/21 Thu 28/1/21	Fri 18/12/20		357,362	0 days 0 days	100%			I
364 CBR-5410	Overflow incident from BR1 to BR2 works area (Feb 2021)	340	0 days	NA NA	NA NA	8 days	Tue 16/2/21	Wed 24/2/21	Tue 16/2/21		366,363	0 days	100%	<u> </u>	!!!!	
365 CBR-3000	Construction of Isolation Wall & stoplog in common channel of BR2 & BR3	277	0 days	NA	NA	43 days	Sat 16/1/21	Wed 10/3/21	Sat 16/1/21	Wed 10/3/21 355,360	364	0 days	100%			
366 CBR-5500	Demolition of existing pipe bridge, partition wall and base slab (Stage 1)		30 days	Wed 3/2/21	Fri 12/3/21	26 days	Tue 2/2/21	Sat 6/3/21	Tue 2/2/21	Sat 6/3/21 362,358,364,356	367SS,368	0 days	100%	100		I
367 CBR-5520	Removal of additional concrete infill within the partition walls	(174)	0 days	NA	NA	26 days	Tue 2/2/21	Sat 6/3/21	Tue 2/2/21	Sat 6/3/21 366SS	368	0 days	100%	-		
368 CBR-5900	Construction of precautionary measures (i.e. isolation wall)	322	0 days	NA NA	NA	2 days	Tue 9/3/21	Wed 10/3/21	Tue 9/3/21	Wed 10/3/21 366,367	369,371	0 days	100%			
369 CBR-5905 370 CBR-5910	Construction of precautionary measures (i.e. bund wall) Removal of abandoned DN250 air pipe	305 209	0 days 0 days	NA NA	NA NA	3 days 6 days	Thu 15/4/21 Tue 20/4/21	Sat 17/4/21 Mon 26/4/21	Thu 15/4/21 Tue 20/4/21	Sat 17/4/21 368 Mon 26/4/21		0 days 0 days	100%			
371 CBR-6000	Predrilling (33nrs, 3rigs, 2days/drillhole/rig)_stage 1		44 days	Wed 21/4/21	Sat 12/6/21	44 days	Mon 1/3/21	Wed 5/5/21	Mon 1/3/21	Wed 5/5/21 368	372	0 days	1 100%	=	Ji	
372 CBR-7000 373 CBR-7100	Pre-bored H piles (113nos, 2rigs, 2days/pile/rig)_stage 1 External works between BR2 and MFB2		113 days 0 days	Tue 15/6/21 NA	Thu 18/11/21 NA	113 days 217 days	Thu 6/5/21 Wed 30/6/21	Fri 17/9/21 Mon 21/3/22	Thu 6/5/21 Wed 30/6/21	NA 371 NA	382SS+30 days,377SS+45 days,	,38 1 day 1046 days	5 41% 9%			
374 CBR-7110	DN700 (CHER)RAS Diversion		0 days	NA	NA	45 days	Wed 30/6/21	Sat 21/8/21	Wed 30/6/21	NA 372SS+45 days	375	1212 days	2%		-	
375 CBR-7120 376 CBR-7130	Temporary vehicle diversion for RAS operation DN600 Temporary Sewage diversion		0 days	NA NA	NA NA	6 days 120 days	Mon 23/8/21 Wed 30/6/21	Sat 28/8/21 Sat 20/11/21	NA Wed 30/6/21	NA 374 NA		1212 days -45 days	0% 18%			
377 CBR-7131	2nos. Manhole Construction (MHTD1 and MHTD2)	204, 353	0 days	NA NA	NA NA	75 days	Wed 30/6/21	Mon 27/9/21	Wed 30/6/21	NA 372SS+45 days	378FS-30 days	-88 days	36%	I I		ı.
378 CBR-7132 379 CBR-7140	Existing DN600 tank drain diversion Demolition of abandoned DN600 pipe and existing surrounded wall &	204, 353 353, 336	45 days 30 days	NA NA	NA NA	75 days 45 days	Mon 23/8/21 Mon 22/11/21	Sat 20/11/21 Sat 15/1/22	NA NA	NA 377FS-30 days NA 378	379 380	-88 days -88 days	0%	1		
	channel of BR2													i	i i i	
380 CBR-7150	Pre-drilling(3nr.) & Pre-bored H piles (20nrs, 1rig, 2days/drillhole/rig)_stage 2A		26 days	NA	NA	26 days	Mon 17/1/22	Fri 18/2/22	NA	NA 379	381	-88 days	0%	 	I I ⊠ I	1
381 CBR-7160	Pile load test		26 days	NA	NA	26 days	Sat 19/2/22	Mon 21/3/22	NA	NA 380,386	389,388	-88 days	0%	į.		
382 CBR-7200 383 CBR-7210	External works between BR2 and PST Demolition of existing DN1200. DN900 and DN500 pipe (w/ ELS works)	01	0 days 0 days	NA NA	NA NA	141 days 75 days	Wed 30/6/21 Wed 30/6/21	Wed 15/12/21 Mon 27/9/21	Wed 30/6/21 Wed 30/6/21	NA 372SS+30 days NA 372SS+45 days	384	-38 days	19% 36%	I I		ı.
		31	0 days	INA	NA .	75 days	Wed 30/6/21	WOI1 27/9/21					30%	I I		ı
384 CBR-7220 385 CBR-7230	Diversion of existing lighting cable and Earthing ducts (w/ ELS) Demolition of existing side wall	264 336	0 days 0 days	NA NA	NA NA	30 days 12 days	Tue 28/9/21 Thu 4/11/21	Wed 3/11/21 Wed 17/11/21	NA NA	NA 383 NA 384	385 386	-38 days	0%		⊠ 8	
386 CBR-7240	Pre-bored H piles (24nrs, 2rig, 2days/drillhole/rig)_stage 2B	336	24 days	NA NA	NA NA	24 days	Thu 18/11/21		NA NA		381	-38 days	0%		💆	I
387 CBR-7340 388 CBR-8000	Demolition of existing side wall between BR2 & BR3 and baseslab Sheetpile Installation (3000sq.m, 1rigs, 50sqm/rig/day)		0 days 60 days	NA Wed 8/9/21	NA Fri 19/11/21	60 days 60 days	Sat 18/9/21 Tue 22/3/22	Tue 30/11/21 Tue 7/6/22	NA NA	NA 372 NA 381,387	388 389	1 day -88 days	0%	I I		
389 CBR-10000	ELS works (18100cu.m soil with 4 layers wailing / strutting)		125 days	Mon 20/12/21	Fri 27/5/22	80 days	Wed 8/6/22	Fri 9/9/22	NA NA		391,390FF-3 emons,399SS+46 c		3 0%	i		
390 CBR-10900 391 CBR-11000 KD1E	Receiving of Civil Requirements from PM R.C. Structure works (including ELS demolition works)		0 days 180 days	NA Sat 28/5/22	NA Sat 31/12/22	1 day 180 days	Sat 11/6/22 Sat 10/9/22	Sat 11/6/22 Sat 22/4/23	NA NA		391SS-3 emons 3-3 emons 398,46FF,397,393FF,394SS+25	168 days	5 0%	 		i.
392 KD1E	H.C. Structure works (including ELS demolition works) Process Pipe CHO chainage 65-140		180 days 0 days	Sat 28/5/22 NA	Sat 31/12/22 NA	180 days 60 days	Sat 10/9/22 Wed 8/2/23	Sat 22/4/23 Sat 22/4/23	NA NA		46FF	-88 days	5 0%	1	2222 2222	
393 CBR-11020 KD1E	Additional backfill works after end wall construction at BR2 common channel	277	0 days	NA	NA	30 days	Wed 15/3/23	Sat 22/4/23	NA	NA 391FF	46FF	-88 days	0%			
394 CBR-13000 KD1E	Flowmeter no. 2-4		180 days	2023/1/3	2023/8/12	60 days	Thu 13/10/22	Wed 21/12/22	NA	NA 391SS+25 days	395FS-13 days	-88 days	0%			I
395 CBR-14000 KD1E 396 CBR-15000 KD1E	Gate Valve Chamber no.1-3		180 days	2023/1/3 2023/1/3	2023/8/12 2023/8/12	60 days	Wed 7/12/22	Tue 21/2/23	NA NA	NA 394FS-13 days NA 395FS-12 days	396FS-12 days 46FF	-88 days	0%	I .	SSSS	
397 CBR-12000 KD1E	Plug Valve Chamber no.1-2 Allow access to Contractor DE/2018/04 for E&M installation and T&C works		180 days 0 days	Sat 31/12/22	Sat 31/12/22	60 days 0 days	Wed 8/2/23 Sat 22/4/23	Sat 22/4/23 Sat 22/4/23	NA NA		46FF	-88 days -88 days	0%	i		
398 CBR-16000 SW1	ABWF works + BS works		180 days	Tue 3/1/23	Sat 12/8/23	180 days	Mon 24/4/23	Mon 27/11/23	NA	NA 391,189,141	56FF	60 days	09/	I I		I
399 CBR-17000 SW2	Process Pipe CHQ chainage 65-170, CHP chainage 60-130, CHL chainage		0 days	NA NA	NA	80 days	Tue 2/8/22	Sat 5/11/22	NA NA	NA 389SS+46 days	57FF,555	-88 days	0%	I .	SSSSS	
400 CMF-0000 *	0-35 & CHK chianage 0-50 and surrounding utilities Membrane Facilities Building, B-5		941 days	Mon 6/1/20	Thu 9/3/23	1133 days	Mon 18/11/19	Wed 13/9/23	Mon 18/11/19	NA 2		121 days	45%	_ !		
401 CMF-0000	Operation of existing Final Sedimentation Tanks no.3 & 4	26	0 days	NA	NA	98 days	Mon 18/11/19	Tue 17/3/20	Mon 18/11/19	11=		0 days	100%			
402 CMF-1000 403 CMF-1100	Demolition of existing final sedimentation tanks no. 3 & 4		14 days	Mon 6/1/20 NA	Tue 21/1/20	340 days	Mon 6/1/20	Sun 28/2/21	Mon 6/1/20			0 days	100%			
404 CMF-1200	Confirmation of Decommission Schedule 68 Provision of new submersed pump 68	3 26	0 days 0 days	NA NA	NA NA	58 days 27 days	Mon 6/1/20 Wed 4/3/20	Mon 16/3/20 Fri 3/4/20	Mon 6/1/20 Wed 4/3/20		404 405	0 days 0 days	100%			ı
405 CMF-1205	Assistant to decommissioning of Final Sedimentation Tank No. 3 and 4 68		0 days	NA NA	NA	14 days	Wed 4/3/20	Fri 3/4/20	Wed 4/3/20	Fri 3/4/20 404	406	0 days	100%			
406 CMF-1300	Additional dismantling works to retain specified electrical and mechanical 75 equipment	(013)	0 days	NA	NA	21 days	Tue 7/4/20	Wed 6/5/20	Tue 7/4/20	Wed 6/5/20 405	407	0 days	100%	-		
407 CMF-1400	Additional pluging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber 76	6, 77, 144 (015)	0 days	NA	NA	70 days	Mon 8/6/20	Sat 29/8/20	Mon 8/6/20	Sat 29/8/20 406	408	0 days	100%			ı
408 CMF-1500		6, 77 032	0 days	NA	NA	21 days	Mon 15/6/20	Fri 10/7/20	Mon 15/6/20	Fri 10/7/20 407	409	0 days	100%			
409 CMF-1600	Isolation wall for RAS Channel No.1 76	6, 77 035	0 days	NA	NA .	40 days	Mon 1/6/20	Sat 18/7/20	Mon 1/6/20	Sat 18/7/20 408	413	0 days	100%	<u>=</u>		
410 CMF-1710 411 CMF-1800	Removal of DN1400 Bioreactor No. 2 Effluent Pipe Exposed and disconnet uncharted existing cable between FST3 and FST 77	043	0 days 0 days	NA NA	NA NA	8 days 20 days	Fri 19/2/21 Thu 2/7/20	Sun 28/2/21 Fri 24/7/20	Fri 19/2/21 Thu 2/7/20			0 days 0 days	100%			1
	4					1										
412 CMF-1110		3, 75, 76, 7, 144	14 days	Mon 6/1/20	Tue 21/1/20	122 days	Wed 1/4/20	Sat 29/8/20	Wed 1/4/20	Sat 29/8/20	414	0 days	100%			
413 CMF-1900	Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1 21		0 days	NA	NA	23 days	Mon 31/8/20	Fri 25/9/20	Mon 31/8/20		415	0 days	100%			
414 CMF-2000 415 CMF-3000	Predrilling (83nrs, 4rigs, 2.5days/drillhole/rig) 14 Pre-bored H piles (171nos, 2rigs, 1.5days/pile/rig) [Extended working hours 21	14, 212 120 12, 308, 120	42 days 140 days	Sat 6/6/20 Tue 28/7/20	Mon 27/7/20 Wed 13/1/21	31 days 96 days	Mon 10/8/20 Mon 28/9/20	Mon 14/9/20 Sat 23/1/21	Mon 10/8/20 Mon 28/9/20		415 416,417	0 days 0 days	1 100% 5 100%			
	0700-1900 & shortern pile length]	19									,					ı.
416 CMF-3100 417 CMF-4000	Change of Layout of Basement of MFB no. 2 Pile Load Test	(102)	0 days 25 days	NA Thu 14/1/21	NA Tue 16/2/21	17 days 19 days	Tue 3/11/20 Mon 4/1/21	Sat 21/11/20 Mon 25/1/21	Tue 3/11/20 Mon 4/1/21		421,418	0 days 0 days	100%			
418 CMF-5000	Installation of sheetpile [with pre-boring]	120	40 days	Wed 22/1/20	Wed 11/3/20	120 days	Mon 28/12/20	Thu 24/6/21	Mon 28/12/20	Thu 24/6/21 417	421	0 days	100%			
419 CMF-6000 420 CMF-6100	ELS works Pharse A (A1 to N6) - Excavation to -9mPD and blinding	45	169 days 169 days	Wed 17/2/21 Wed 17/2/21	Thu 9/9/21 Thu 9/9/21	188 days 188 days	Fri 25/6/21 Fri 25/6/21	Thu 10/2/22 Thu 10/2/22	Fri 25/6/21 Fri 25/6/21	NA 10 NA	424FF-3 emons 423SS	-87 days	5 22% 16%			1
421 CMF-6110	Soil Excavation [Extended working hours 0700-1900 & reduction of	120, 207	169 days	Wed 17/2/21	Thu 9/9/21	88 days	Fri 25/6/21	Fri 8/10/21	Fri 25/6/21	NA 418,135,417	422	-117 days	35%		<u></u>	
422 CMF-6120	excavation volume] Additional Rock Excavation [2200 cu.m, 7.5cu.m/group x 2]	120, 207	0 davs	NA	NA	100 days	Sat 9/10/21	Thu 10/2/22	NA	NA 421	426	-117 days	no/	1		
423 CMF-6200	Pharse B (A6 to N10) - Excavation to -1.9mPD and blinding	120, 201	169 days	Wed 17/2/21	Thu 9/9/21	100 days	Fri 25/6/21	Sat 23/10/21	Fri 25/6/21	NA 420SS	427,433	1 day	31%	1	•	I
424 CMF-6900 425 CMF-7000	Receiving of Civil Requirements from PM RC Structure works		0 days 232 days	NA Fri 10/9/21	NA Sat 25/6/22	1 day 262 days	Fri 12/11/21 Fri 11/2/22	Fri 12/11/21 Wed 28/12/22	NA NA	NA 419FF-3 emons NA 10,424SS-3 emons	425SS-3 emons	216 days	0% 5 0%	į		
425 CMF-7000 426 CMF-7100 KD1F	Phase A - from B2 - Level 1 (including ELS demolition works)		232 days 112 days	Fri 10/9/21 Fri 10/9/21	Sat 25/6/22 Tue 25/1/22	262 days 112 days	Fri 11/2/22 Fri 11/2/22		NA NA	NA 10,424SS-3 emons NA 139,186,187,190,188,422	427SS+30 days,428,430	-117 days -117 days	0%	I I		
427 CMF-7110 KD1F	Phase B - from B1 - Level 1 (including ELS demolition works)		112 days	Fri 10/9/21	Tue 25/1/22	112 days	Fri 18/3/22	Thu 4/8/22	NA NA	NA 426SS+30 days,423	429,430	-117 days	0%			
428 CMF-7120 KD1G 429 CMF-7130 KD1G	Phase A - from Level 1 to Roof Phase B - from Level 1 to Roof		120 days 120 days	Wed 26/1/22 Wed 26/1/22	Sat 25/6/22 Sat 25/6/22	120 days 120 days	Thu 30/6/22 Fri 5/8/22	Mon 21/11/22 Wed 28/12/22	NA NA	NA 426 NA 427	431,432 431,432	-87 days -117 days	0%	į	<u> </u>	
430 CMF-8000 KD1F	Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from B2-level 1)		0 days	Tue 25/1/22	Tue 25/1/22	0 days	Thu 4/8/22	Thu 4/8/22	NA	NA 426,427	47FF	-115 days	0%	I I	4/8	ı
431 CMF-9000 KD1G	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Sat 25/6/22	Sat 25/6/22	0 days	Wed 28/12/22	Wed 28/12/22	NA	NA 428,429	48FF	-117 days	0%	I I	♦ 28/12	I
	(from Level to Roof)									·						
432 CMF-10000 SW1 433 CMF-11000 SW2	ABWF works + BS works Process Pipe CHQ chainage 0-65, CHM chainage 0-120, CHN chainage		210 days 0 days	Mon 27/6/22 NA	Thu 9/3/23 NA	210 days 176 days	Thu 29/12/22 Mon 25/10/21	Wed 13/9/23 Tue 31/5/22	NA NA	NA 189,428,429 NA 423	56FF 57FF,555	121 days 43 days	0%	1		l
	0-125, CHO chainage 0-65, CHP chainage 0-60 & CHV chainage 0-50 and surrounding utilities													1		
434 CSA-0000 *	SAS Pumping Station, B-6		455 days	Wed 20/5/20	Thu 25/11/21	728 days	Sat 18/4/20	Wed 28/9/22	Sat 18/4/20	NA 11		891 days	78%			
															-	
Data Date: 31/07/2021										Page 5						Revision Date: 15/08/2021

Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing F	Plant - Main Works Stage 1								Revised V	Works Programme	e (Status Date: 31/07/2021)					
ID Activity ID Key Ta		Inclement PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish Ac	ctual Start Ad	ctual Finish	Predecessors	Successors	Total Slack Risk Allowance	% Complete		
Date		CE no. (NCE no.)											Allowance	Qtr 3	2020 Qtr 1	2022 2024 2024 Otr 3 Otr 1 Otr 3
435 CSA-1000 436 CSA-1020	Additional Preliminary Works Expose and abandon existing electric cable & trial pits	70	0 days 0 days	NA NA	NA NA	330 days 39 days	Tue 9/6/20 Mon 17/8/20	Mon 19/7/21 Wed 30/9/20	Tue 9/6/20 Mon 17/8/20	NA Wed 30/9/20			1247 days 0 days	98% 100%	•	
437 CSA-1030	Installation of standpipes	71	0 days	NA	NA	13 days	Mon 14/9/20	Mon 28/9/20	Mon 14/9/20	Mon 28/9/20			0 days	100%		
438 CSA-1100 439 CSA-1200	Diversion of Existing SAS Rising Main near SAS Pumping Station Decommission of exisiting power and signal systems in leachate Pump	68, 75, 76 69 312, 309, 74	0 days 0 days	NA NA	NA NA	170 days 58 days	Tue 9/6/20 Mon 21/9/20	Thu 31/12/20 Mon 30/11/20	Tue 9/6/20 Mon 21/9/20	Thu 31/12/20 Mon 30/11/20	146	453 453	0 days 0 days	100%		
	station switch room	310													i	
440 CSA-1300 441 CSA-1400	Construction of Cable trough for CLP 11kv Cable Diversion Demolition of Existing Pillar box and its concrete plinth	75, 76, 77, 161 144, 212, 3(30	0 days 0 days	NA NA	NA NA	54 days 53 days	Mon 19/10/20 Wed 12/8/20	Mon 21/12/20 Sat 14/11/20	Mon 19/10/20 Wed 12/8/20	Mon 21/12/20 Sat 14/11/20		453 453	0 days 0 days	100%		
442 CSA-1500	Excavation to locate existing underground cble near SAS Pump Station	78	0 days	NA	NA	59 days	Wed 17/6/20	Sat 21/11/20	Wed 17/6/20	Sat 21/11/20		453	0 days	100%		
443 CSA-1600	Diversion of Existing DN80 Permeate Rising Main near SAS Pumping	89	0 days	NA	NA	72 days	Tue 6/10/20	Thu 31/12/20	Tue 6/10/20	Thu 31/12/20		453	0 days	100%		
444 CSA-1800	station Trench Excavation near SAS for CLP diversion of 11kV cable	309, 310 97	0 days	NA	NA	53 days	Mon 12/10/20	Sat 12/12/20	Mon 12/10/20	Sat 12/12/20		453	0 days	100%		
445 CSA-1700	Relocation of Oil Interceptor Near Existing Compressor House	144, 212, 3(70	0 days	NA	NA	50 days	Mon 9/11/20	Fri 8/1/21	Mon 9/11/20	Fri 8/1/21		453	0 days	100%	_	
446 CSA-1900 447 CSA-1910	Diversion of pumping system sewerage Diversion of Existing copper pipe near proposed SAS pumping station	212, 309, 3183	0 days 0 days	NA NA	NA NA	36 days 61 days	Wed 13/1/21 Mon 19/10/20	Fri 26/2/21 Thu 31/12/20	Wed 13/1/21 Mon 19/10/20	Fri 26/2/21 Thu 31/12/20		455,453,447 453	0 days 0 days	100%		
448 CSA-1920	Pipework of proposed SAS Pumping Station - 13 nos. of puddles	221	0 days	NA	NA	180 days	Mon 7/12/20	Mon 19/7/21	Mon 7/12/20	NA			1247 days	92%	©	
449 CSA-1930 450 CSA-1940	Additional DN150 Rising main for SAS Additional DN90 PE pipe diversion	220/69	0 days 0 days	NA NA	NA NA	15 days 7 days	Wed 2/12/20 Fri 11/12/20	Fri 18/12/20 Fri 18/12/20	Wed 2/12/20 Fri 11/12/20	Fri 18/12/20 Fri 18/12/20			0 days 0 days	100%		
451 CSA-1970	Additional diversion of existing sludge rising main and sewerage system	81	0 days	NA	NA	15 days	Thu 21/1/21	Sat 6/2/21	Thu 21/1/21	Sat 6/2/21			0 days	100%	1	
452 CSA-2000	Predrilling (4nrs, 1rig, 4days/drillhole/rig)	68	16 days	Wed 20/5/20	Sat 6/6/20	7 days	Sat 18/4/20	Sat 25/4/20	Sat 18/4/20	Sat 25/4/20	127	342,453	0 days	100%		
453 CSA-3000	Pre-bored H piles (12nos, 1rigs, 4days/pile/rig)		60 days	Mon 8/6/20	Tue 18/8/20	19 days	Mon 4/1/21	Mon 25/1/21	Mon 4/1/21		132,452,148,438,439,441,442,443,445,4		0 days 2	100%	•	
454 CSA-4000 455 CSA-5000	Pile Load Test Sheetpile Installation (FSP-II, 690sq.m, 40sqm/day)		21 days 28 days	Wed 19/8/20 Wed 19/8/20	Thu 17/9/20 Sat 19/9/20	22 days 28 days	Tue 23/2/21 Tue 30/3/21	Fri 19/3/21 Wed 5/5/21	Tue 23/2/21 Tue 30/3/21	Fri 19/3/21 Wed 5/5/21	453 133,454,446	456,455 456	0 days 0 days	100%	•	
456 CSA-6000	ELS works (1300cu.m soil with 2 layers wailing / strutting)		75 days	Mon 21/9/20	Wed 19/2/20	75 days	Thu 6/5/21	Wed 4/8/21	Thu 6/5/21		455,135,454 45055 0	458,457FF-3 emons	-121 days 2	96%	2222	
457 CSA-6900 458 CSA-7000 KD1H	Receiving of Civil Requirements from PM R.C. Structure works (including ELS demolition works)		0 days 186 days	NA Mon 21/12/20	NA Mon 9/8/21	1 day 186 days	Thu 6/5/21 Thu 5/8/21	Thu 6/5/21 Sat 19/3/22	Thu 6/5/21 NA		456FF-3 emons 456,457SS-3 emons	458SS-3 emons 459,460,49FF	0 days -121 days 5	100%		
459 CSA-8000 KD1H	Allow access to Contractor DE/2018/03 for E&M installation and T&C works		0 days	Mon 9/8/21	Mon 9/8/21	0 days	Sat 19/3/22	Sat 19/3/22	NA NA		458	49FF	-121 days	0%	1	♦ 19/3
460 CSA-9000 SW1 461 CAS-0000 *	ABWF works + BS works Ancillary Structures, B-7		90 days 503 days	Tue 10/8/21 Mon 7/9/20	Thu 25/11/21 Sat 21/5/22	90 days 420 days	Tue 14/6/22 Mon 3/5/21	Wed 28/9/22 Wed 28/9/22	NA Mon 3/5/21	NA NA	458,189,141,522SS 12	56FF	405 days 891 days	0% 7%		
462 CAS-1000	Demolition of Existing Faciliates and Structures (leachate pump pit & pumping station)		120 days	Mon 7/9/20	Sat 30/1/21	120 days	Mon 3/5/21	Thu 23/9/21	Mon 3/5/21		122,160,162	497	48 days	41%		
463 CFS-1000 *	Fire Services Sprinkler Pumping Room & Emergency Generator House	301	220 days	Sat 10/4/21	Sun 3/1/21	419 days	Tue 4/5/21	Wed 28/9/22	Tue 4/5/21	NA			405 days	14%		
	(9)+(10)**			NA	NA							405				
464 CFS-1000 465 CFS-1150	Water Sampling and Testing for existing effluent pump pit Identification, decommission and demolition of the existing klosk	384 86	0 days 0 days	NA NA	NA NA	12 days 26 days	Tue 4/5/21 Tue 18/5/21	Mon 17/5/21 Fri 18/6/21	Tue 4/5/21 Tue 18/5/21	Mon 17/5/21 Fri 18/6/21		465 466,479	0 days 0 days	100%		
466 CFS-1100	Provision of Flowmeter chamber, gate valve chamber and associated seweage	85	0 days	NA	NA	90 days	Sat 19/6/21	Tue 5/10/21	Sat 19/6/21	NA NA		467,469FF	-101 days	40%	N.	
467 CFS-1200	Decommission and demolistion of the existing pump pit and associated	86	0 days	NA	NA	40 days	Wed 6/10/21	Mon 22/11/21	NA	NA	466	470	-101 days	0%		
	sewerage manholes and pipes		<u>'</u>										,	201		
468 CFS-1250 469 CFS-1300	Diversion of Leachate Rising Main near SSSH E&M provision of flowmeter chamber and associated sewerage for	241 256	0 days 0 days	NA NA	NA NA	18 days 40 days	Wed 28/7/21 Wed 18/8/21	Wed 18/8/21 Tue 5/10/21	NA NA		469SF 466FF	480 470,468SF	18 days -61 days	0%		
470 CFS-2000	effluent and sewage from SSSH Excavation for Raft Footing (800cu.m)		65 days	NA	NA	44 days	Tue 23/11/21	Sat 15/1/22	NA		469,467	471	-101 days	00/	İ	
470 CFS-2000 471 CFS-2800	Excavation for Raft Footing (800cu.m) Plate load test at bottom level of compacted generall fill(2no.)		65 days 12 days	NA	NA	44 days 7 days	Tue 23/11/21 Mon 17/1/22	Sat 15/1/22 Mon 24/1/22	NA NA	NA	470	472	-101 days	0%	I I	SS
472 CFS-2900	Soil Replacement (14 layers SRT)		0 days	NA	NA	42 edays	Mon 24/1/22	Mon 7/3/22	NA NA			473	-124.42 edays	0%	1	
473 CFS-3000 474 CFS-3900	Plate load test at bottom level of base slab (3no.) Receiving of Civil Requirements from PM		28 days 0 days	Fri 4/6/21 NA	Mon 21/6/21 NA	7 days 1 day	Tue 8/3/22 Tue 23/11/21	Tue 15/3/22 Tue 23/11/21	NA NA		472 473FF-3 mons	474FF-3 mons,475 475SS-3 emons	-101 days 59 days	0%		
475 CFS-4000 KD1J	R.C. structure works		120 days	NA	NA 10/0/04	70 days	Wed 16/3/22	Mon 13/6/22	NA		473,474SS-3 emons		-101 days 2	0%		100
476 CFS-5000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Mon 13/9/21	Mon 13/9/21	0 days	Mon 13/6/22	Mon 13/6/22	NA	NA	475	51FF	-101 days	0%		♦ 13/6
477 CFS-6000 SW1 478 CCS-1000 *	ABWF works + BS works		90 days	Tue 14/9/21 Mon 1/2/21	Mon 3/1/22 Thu 26/8/21	90 days	Tue 14/6/22	Wed 28/9/22	NA NA	NA NA			405 days	0%		
478 CCS-1000 479 CCS-1310	Chemical System No.1 (8)* Demolition of SSSH Pump Pit and Associated Sewerage System	086	168 days 0 days	Mon 1/2/21 NA	NA	386 days 26 days	Sat 12/6/21 Sat 19/6/21	Wed 28/9/22 Tue 20/7/21	Sat 12/6/21 Sat 19/6/21	NA NA		481	891 days 54 days	4% 38%		
480 CCS-1110	Removal of existing Leachate Rising Main near SSSH	241	0 days	NA	NA	12 days	Wed 18/8/21	Tue 31/8/21	NA		468	481	18 days	0%		
481 CCS-1100 482 CCS-1080	Excavation for Raft Footing (20cu.m) Plate load test at bottom level of compacted generall fill(2no.)		10 days 9 days	Mon 1/2/21 NA	Thu 11/2/21 NA	10 days 9 days	Wed 1/9/21 Mon 13/9/21	Sat 11/9/21 Thu 23/9/21	NA NA	NA NA	480,479 481	485FF-3 emons,486,482 483	18 days 18 days	0%		
483 CCS-1090	Soil Replacement (10 layers SRT)		0 days	NA	NA	30 edays	Thu 23/9/21	Sat 23/10/21	NA		482	484	23.58 edays	0%		
484 CCS-1200 485 CCS-1190	Plate load test at bottom level of base slab (1no.) Receiving of Civil Requirements from PM		5 days 0 days	Tue 16/2/21 NA	Wed 3/3/21 NA	5 days 1 day	Mon 25/10/21 Sat 12/6/21	Fri 29/10/21 Sat 12/6/21	NA Sat 12/6/21		483 481FF-3 emons	486,493 486SS-3 emons	19 days 0 days	100%	1	
486 CCS-1300 KD1J	R.C. structure works		45 days	Mon 15/3/21	Mon 10/5/21	60 days	Sat 30/10/21	Tue 11/1/22	NA		481,485SS-3 emons,484		20 days 2	0%		
487 CCS-1400 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Mon 10/5/21	Mon 10/5/21	0 days	Tue 11/1/22	Tue 11/1/22	NA	NA	486	51FF	20 days	0%		11/1
488 CCS-1500 SW1	ABWF works + BS works		90 days	Tue 11/5/21	Thu 26/8/21	90 days	Tue 14/6/22	Wed 28/9/22	NA		189,141,486,522SS	56FF	405 days	0%		
489 CDS-0000 * 490 CDS-2000	Deodorization System No.3A (7)* Excavation for Raft Footing (400cu.m)		149 days 20 days	Tue 16/11/21 Tue 16/11/21	Sat 21/5/22 Wed 8/12/21	105 days 20 days	Thu 5/8/21 Sat 14/8/21	Wed 8/12/21 Tue 7/9/21	NA NA	NA NA	491SF		90 days 1205 days	0%		
491 CDS-2008	Plate load test at bottom level of compacted generall fill(2no.)		10 days	NA	NA	10 days	Tue 7/9/21	Sat 18/9/21	NA		492SF	490SF	1195 days	0%		
492 CDS-2100 493 CDS-3000	Soil Replacement (14 layers SRT) Plate load test at bottom level of base slab (1no.)		0 days 4 days	NA Thu 9/12/21	NA Fri 24/12/21	42 edays 4 days	Sat 18/9/21 Sat 30/10/21	Sat 30/10/21 Wed 3/11/21	NA NA		493SF 484	491SF 494FF-3 emons,495,492SF,500FS	1425.42 edays - 19 days	0%		
494 CDS-3900	Receiving of Civil Requirements from PM		0 days	NA	NA	1 day	Thu 5/8/21	Thu 5/8/21	NA NA	NA	493FF-3 emons	495SS-3 emons	150 days	0%		
495 CDS-4000 KD1J 496 CDS-5000 KD1J	Footing works Allow access to Contractor DE/2018/04 for E&M installation and T&C		20 days 0 days	Tue 4/1/22 Wed 26/1/22	Wed 26/1/22 Wed 26/1/22	30 days 0 days	Thu 4/11/21 Wed 8/12/21	Wed 8/12/21 Wed 8/12/21	NA NA		493,494SS-3 emons 495	496,51FF 51FF	46 days 46 days	0%	I I	
497 CCS-2000 *	works								NA		462			00/	1	
497 CCS-2000 * 498 CCS-2100	Chemical System No.2 (11) Excavation for Raft Footing (100cu.m)		189 days 15 days	Thu 4/3/21 Thu 4/3/21	Thu 21/10/21 Sat 20/3/21	300 days 14 days	Fri 24/9/21 Fri 24/9/21	Wed 28/9/22 Mon 11/10/21	NA NA		462 499SF		48 days 1177 days	0%	į	
499 CCS-2110	Soil Replacement (8 layers SRT)		0 days	NA	NA	24 edays	Wed 6/10/21	Sat 30/10/21	NA NA		500SF	498SF	1425.42 edays	0%	I I	
500 CCS-2200 501 CCS-2290	Plate load test (2no.) Receiving of Civil Requirements from PM		14 days 0 days	Mon 22/3/21 NA	Fri 9/4/21 NA	15 days 1 day	Sat 30/10/21 Fri 24/9/21	Tue 16/11/21 Fri 24/9/21	NA NA		493FS-4 days 500FF-3 emons	501FF-3 emons,502,499SF,510FS 502SS-3 emons	19 days 108 days	0%	1	
502 CCS-2300 KD1J	R.C. structure works		45 days	Tue 11/5/21	Mon 5/7/21	45 days	Wed 17/11/21	Tue 11/1/22	NA	NA	500,501SS-3 emons	503,51FF,504,505	20 days 2	0%	1	310
503 CCS-2400 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Mon 5/7/21	Mon 5/7/21	0 days	Tue 11/1/22	Tue 11/1/22	NA	NA	502		20 days	0%	I I	11/1
504 CCS-2500 SW1 505 CCS-2600 SW1	ABWF works + BS works		90 days	Tue 6/7/21 Tue 6/7/21	Thu 21/10/21 Mon 13/9/21	90 days	Tue 14/6/22 Wed 12/1/22	Wed 28/9/22 Fri 25/3/22	NA NA		189,141,502,522SS 502	56FF 56FF	405 days	0%		
506 CTC-0000 *	Demolition of existing chemical room Temporary Chemical Dosing System (5)		60 days 191 days	Tue 6/7/21 Tue 22/6/21	Mon 13/9/21 Thu 10/2/22	60 days 330 days	Wed 12/1/22 Thu 19/8/21	Fri 25/3/22 Wed 28/9/22	NA NA	NA NA		JUFF	556 days 89 days	0%		
507 CTC-2000 508 CTC-2080	Excavation for Raft Footing (300cu.m)		30 days	Tue 22/6/21 NA	Tue 27/7/21 NA	30 days	Thu 26/8/21	Sat 2/10/21	NA NA		508SF 509SF	507SF	1185 days	0%	I I	—
508 CTC-2080 509 CTC-2100	Plate load test at bottom level of compacted generall fill(2no.) Soil Replacement (10 layers SRT)		9 days 0 days	NA NA	NA NA	9 days 30 edays	Sat 2/10/21 Wed 13/10/21	Wed 13/10/21 Fri 12/11/21	NA NA		509SF 510SF	507SF 508SF	1176 days 1412.42 edays	0%		
510 CTC-1000 511 CTC-2900	Plate load test at bottom level of base slab (1no.)		5 days	Wed 28/7/21 NA	Thu 12/8/21	5 days	Fri 12/11/21	Wed 17/11/21	NA NA		500FS-4 days	509SF,511FF-3 emons,512	19 days	0%		i ti
511 CTC-2900 512 CTC-3000 KD1J	Receiving of Civil Requirements from PM R.C. structure works		0 days 30 days	NA Tue 14/9/21	NA Thu 21/10/21	1 day 45 days	Thu 19/8/21 Thu 18/11/21	Thu 19/8/21 Wed 12/1/22	NA NA		510FF-3 emons 511SS-3 emons,510	512SS-3 emons 513,51FF,514	138 days 19 days 1	0%	1	
513 CTC-4000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Thu 21/10/21	Thu 21/10/21	0 days	Wed 12/1/22	Wed 12/1/22	NA		512	51FF	19 days	0%		
514 CTC-5000 SW1	ABWF works + BS works		90 days	Fri 22/10/21	Thu 10/2/22	90 days	Tue 14/6/22	Wed 28/9/22	NA	NA	189,141,512,522SS	56FF	405 days	0%	į	
515 CFB-0000 *	Fire Hydrant and Booster Pump Room (13)*		177 days	Fri 13/8/21	Thu 17/3/22	193 days	Sat 5/2/22	Wed 28/9/22	NA NA	NA NA			-28 days	0%	I I	
516 CFB-1000 517 CFB-1100	Excavation for Raft Footing (200cu.m) Soil Replacement (7 layers SRT)		30 days 0 days	Fri 13/8/21 NA	Thu 16/9/21 NA	30 days 21 edays	Wed 23/2/22 Wed 30/3/22	Wed 30/3/22 Wed 20/4/22	NA NA	NA	517SF 518SF	516SF	1039 days 1253.42 edays	0%	1	
518 CFB-2000	Plate load test (3no.)		14 days	Fri 17/9/21 NA	Tue 5/10/21 NA	14 days	Wed 20/4/22	Sat 7/5/22	NA NA			519FF-3 emons,517SF	1011 days	0%	İ	
519 CFB-2900 520 CFB-3000 KD1J	Receiving of Civil Requirements from PM R.C. structure works		0 days 30 days	Fri 22/10/21	Thu 25/11/21	1 day 30 days	Sat 5/2/22 Sat 7/5/22	Sun 6/2/22 Mon 13/6/22	NA NA	NA	518FF-3 emons 475FF	521,522,51FF,518SF	1083 days -101 days 1	0%		
521 CFB-4000 KD1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Thu 25/11/21	Thu 25/11/21	0 days	Mon 13/6/22	Mon 13/6/22	NA	NA	520,475FF	51FF	-101 days	0%	I	♦ 13/6
522 CFB-5000 SW1	ABWF works + BS works		90 days	Fri 26/11/21	Thu 17/3/22	90 days	Tue 14/6/22	Wed 28/9/22	NA	NA	520,189,141	56FF,514SS,504SS,488SS,460SS	405 days	0%	İ	
523 CDS1-0000	Deodorization System No.1 (6)*		64 days	NA	NA	105 days	Tue 10/5/22	Tue 13/9/22	NA NA	NA			418 days	0%	I I	
524 CDS1-1000 525 CDS1-1080	Excavation for Raft Footing (400cu.m) Plate load test at bottom level of compacted generall fill(2no.)		20 days 10 days	NA NA	NA NA	20 days 10 days	Wed 8/6/22 Sat 2/7/22	Thu 30/6/22 Wed 13/7/22	NA NA		322 524	525 526	420 days 420 days	0%		
526 CDS1-1100	Soil Replacement (7 layers SRT)		0 days	NA NA	NA NA	21 edays	Wed 13/7/22	Wed 3/8/22	NA NA	NA	525	527	513.58 edays	0%	i	
527 CDS1-2000 528 CDS1-2900	Plate load test at bottom level of base slab (1no.) Receiving of Civil Requirements from PM		4 days 0 days	NA NA	NA NA	4 days 0 days	Thu 4/8/22 Tue 10/5/22	Mon 8/8/22 Tue 10/5/22	NA NA		526 527FF-3 emons	529,528FF-3 emons 529SS-3 emons	418 days 523 days	0%		
529 CDS1-3000 SW1	Footing works		30 days	NA	NA NA	30 days	Tue 9/8/22	Tue 13/9/22	NA	NA	527,528SS-3 emons	530,56FF	418 days	0%	1	
530 CDS1-4000 SW1	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	NA	NA	0 days	Tue 13/9/22	Tue 13/9/22	NA	NA	529	56FF	418 days	0%		↑ 13/9
531 CAA-0000 *	Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)		662 days	Wed 29/1/20	Fri 22/4/22	918 days	Mon 1/6/20	Thu 6/7/23	Mon 1/6/20	NA			269 days	64%		
															1	
ata Date: 31/07/2021										Pac	ge 6					Revision Date: 15/08/
	·										,					

D Activity ID Key Date	Task Name	Inclement PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	Actual Start	Actual Finish	Predecessors	Successors	Total Slack	Risk % Complete Allowance						
		CE no. (NCE no.)													Qtr 3	Qtr 1	2020 Qtr 3 Qtr 1	Qtr 3	2022 Otr 1 Otr 3 Otr 1 Otr	3 Otr 1 Otr 3 Otr 1 Ot
32 CAA-1000 KD2B	B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)		180 days	Wed 29/1/20	Thu 3/9/20	246 days	Mon 1/6/20	Fri 26/3/21	Mon 1/6/2	20 Fri 26/3/2	21 15,142,184	53FF	0 days	1009			-	i		
33 CAA-1100	Change of pipe bridge design	(057)	0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/2	20 Tue 10/11/2	20	536,537,538	0 days	1009	6	1		!	1	
34 CAA-1200	Additional inspection pit to verify the connection point to existing (CE xxx)		0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/2	20 Tue 10/11/2	20	536,537,538	0 days	1009	6			į		
35 CAA-1300	Additional MBV installation (CE xxx)		0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/2	20 Tue 10/11/2	20	536.537.538	0 days	1009	6			1		
36 CAA-1400	Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)		180 days	Wed 29/1/20	Thu 3/9/20	111 days	Wed 11/11/20	Fri 26/3/21	Wed 11/11/2	20 Fri 26/3/2	21 533,534,535	53FF	0 days	1009	6	!		i		
37 CAA-1500 KD2B	Re-alignmnet of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases	064	0 days	NA	NA	111 days	Wed 11/11/20	Fri 26/3/21	Wed 11/11/2	20 Fri 26/3/2	21 533,534,535	53FF	0 days	1009	6	i i		I I		i I
38 CAA-1600 KD2B	Elevated Section of DN800 Temporary Air Main (CHTA) across existin Bioreactor's Distibution Chamber No. 2	062	0 days	NA	NA	111 days	Wed 11/11/20	Fri 26/3/21	Wed 11/11/2	20 Fri 26/3/2	21 533,534,535	53FF,539	0 days	1009	6	I I		I I	 	
39 CAA-2000 KD1I	B7-A Alternation works for existing Power House		122 days	Fri 4/9/20	Sat 30/1/21	0 days	Wed 11/11/20	Fri 29/1/21	Wed 11/11/2	20 Fri 29/1/2	21 13FS-1 day,122,160,162,176,538	50FF,540FS+356 days	0 days	1009	6	1	◆ 29/1	!	1	
40 CAA-2100 SW3	Additional works for Power House	224	0 days	NA	NA	60 days	Thu 14/4/22	Wed 29/6/22	N/	IA N	A 539FS+356 days	58FF	570 days	09	6			1		
41 CAA-3000 SW3	Alternation works for existing Membrane Facilities Building No.1		360 days	Mon 1/2/21	Fri 22/4/22	360 days	Tue 19/4/22	Thu 6/7/23	N/	IA N	A 14FS-1 day,175	58FF	269 days	09	6			i.		
42 CUU-0000 *	External Underground Service, Utilities, Road/Drain		1091 days	Mon 24/2/20	Sat 28/10/23	1192 days	Mon 27/4/20	Mon 13/5/24	Mon 27/4/2	20 N	A 16		-88 days	46%	6			<u> </u>	+	
43 CUU-1000 KD2A	Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)	33, 222, 255	325 days	Mon 24/2/20	Sat 27/3/21	379 days	Mon 27/4/20	Wed 4/8/21	Mon 27/4/2	20 N	A 184,142	554SS+48 days,552SS+48 days,5	5 -39 days	999	6	i	mmmm			
44 CUU-1000a	Special Treatment for Removing the Existing Abandoned DN1800 By-pas Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall trenching work of Process Pipeline CHR and CHS		0 days	NA	NA	54 days	Sat 30/5/20	Mon 3/8/20	Sat 30/5/2	20 Mon 3/8/2	20		0 days	1009	6	 		 	 	
45 CUU-1000b	Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN90 D.I.)	0 255	0 days	NA	NA	60 days	Thu 25/2/21	Mon 10/5/21	Thu 25/2/2	21 Mon 10/5/2	21	52FF	0 days	1009	6	I I		1		
46 CUU-1001	Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Are	033 a	0 days	NA	NA	43 days	Thu 2/7/20	Thu 20/8/20	Thu 2/7/2	20 Thu 20/8/2	20		0 days	1009	6	1	_	I I	1	
47 CUU-1002	Grouting for Sheung Shui Slaughter House Boundary Walls along CHR & CHS Pipes Works Area	222	0 days	NA	NA	20 days	Fri 23/10/20	Mon 16/11/20	Fri 23/10/2	20 Mon 16/11/2	20		0 days	1009	6			!		
48 CUU-1004	Delay Delivery of DI pipes due to COVID-19	(076)	0 days	NA	NA	75 days	Tue 22/12/20	Thu 25/3/21	Tue 22/12/2	20 Thu 25/3/2	21	549FF	0 days	1009	6			li.		
49 CUU-2000 SW2	Process Pipes, including CHT, CHX, CHY, CHPS1&2, CHS S1&2, CHDC 1&2, CHPSW 1-8, CHTPS, CHPT1&2. CHTFT 1&2, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe		550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/2	20 N	A 184,142,548FF,543SS+48 days	57FF,555,550SS+250 days	63 days	519	6					
50 CUU-2100 SW2	Remaining Process Pipes		0 days	NA	NA	270 days	Mon 23/8/21	Fri 22/7/22	N/	IA N	A 549SS+250 days	57FF	0 days	09	6	i		(CCCCC)		
51 CUU-3000 SW2	Remaining Drainage		550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/2	20 N	A 184,142	555,57FF	0 days	5 459	6	I	annunn			I
52 CUU-4000 SW2	Remaining Sewerage		550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/2	20 N	A 184,142,543SS+48 days	555,57FF	0 days	5 459	6	I	ammin			I
53 CUU-5000 SW2	Remaining Waterworks		550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/2	20 N	A 184,142,543SS+48 days	557FS+2 days,57FF	0 days	5 459	6	I	mmmm			I
54 CUU-6000 SW2	Remaining Cable Ducts		550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/2	20 N	A 184,142,543SS+48 days	555,57FF	0 days	5 45%	6	1				
55 CUU-7000 KD3A	Roadworks		540 days	Fri 31/12/21	Sat 28/10/23	440 days	Mon 7/11/22	Mon 13/5/24	N/	IA N	A 554,551,552,549,352,399,334,433	54FF,558SS+123 days	-88 days	5 09	6	1		11		
56 CLW-0000 *	Landscaping Works		854 days	Wed 11/5/22	Thu 27/3/25	946 days	Tue 26/7/22	Wed 24/9/25	N/	A N	A 16		0 days	09	6			II.		
57 CLW-1000 KD3A	Irrigation System		120 days	Wed 11/5/22	Fri 30/9/22	120 days	Tue 26/7/22	Thu 15/12/22	N/	IA N	A 553FS+2 days,184	558,54FF	1 day	09	6			Ti-		
58 CLW-2000 SW3	Hard Landscaping Works		220 days	Mon 3/10/22	Mon 3/7/23	214 days	Tue 11/4/23	Sat 23/12/23	N/	IA N	A 557,555SS+123 days	559,58FF	-88 days	5 09	6	i		li li		222
59 CLW-3000 SW3	Soft Landscaping Works		220 days	Tue 4/7/23	Tue 26/3/24	214 days	Wed 27/12/23	Tue 24/9/24	N/	IA N	A 558,143	560,58FF	-88 days	5 0%	6	I		i	1	
60 CLW-4000 DLP	Establishment Works (365 days)		294 days	Wed 27/3/24	Thu 27/3/25	365 days	Wed 25/9/24	Wed 24/9/25	N/	IA N	A 559 143	59FF 60FF	0 days	5 09	6	1		1	I	





vity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Predecess Float	ors Successors	9 2020 2021 J 3 J J J J J J J J J	2022 	2023	2024 J	2025
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	SC31100,	1	123 5	3733111111	111123233222	23333333333
333.333	The Control of the Co	10 00 1112) 21		00 may 2 .		0 000.000	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				1	
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	SC31100				1	
SC31100	Revised Completion for Section 3	0	05-Jun-24*		05-Jun-24	0 SC31005 SC31006					•	
Expected Comple	tion (Include Non-implemented CE)	2003 23-Oct-19 A	16-Apr-25	21-Nov-22	16-Apr-25	0	,					
SC31000-1	Contract Duration of Section 3	1626 23-Oct-19 A	04-Apr-24	21-Nov-22	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					
	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		<u> </u>			
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	_				
	NICE-CNE-0293 Inclement Weather (September 2021) - 3.5days (Implemented)	4 29-May-24	01-Jun-24	,	01-Jun-24	0 SC31006					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				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				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				ı	
SC31012-1	CNE-036 Inclement Weather (January 2022) - 4days	4 17-Jun-24	21-Jun-24	17-Jun-24	21-Jun-24	0 SC31011	-1 SC31013-1				ı	
	CNE-040 Inclement Weather (February 2022) - 5days	5 21-Jun-24	26-Jun-24		26-Jun-24	0 SC31012						
	CNE-044 Inclement Weather (March 2022) - 4.5days	5 26-Jun-24	30-Jun-24	26-Jun-24		0 SC31013		_				
	CNE-048 Inclement Weather (April 2022) - 2days	2 01-Jul-24	02-Jul-24	01-Jul-24		0 SC31014						
	5.12 5.15 1.1561.16.17 FOX.16.17 (p.1.2522)		02 00. 2 .	0.00.2.	02 00: 2 :		SC31016-1					
SC31016-1	CNE-050 Inclement Weather (May 2022) - 8days	8 03-Jul-24	10-Jul-24	03-Jul-24	10-Jul-24	0 SC31015	-1 SC31099-1, SC31017-1					
SC31017-1	CNE-052 Inclement Weather (June 2022) - 9days	9 11-Jul-24	19-Jul-24	11-Jul-24	19-Jul-24	0 SC31016	-1 SC31018-1				•	
SC31018-1	CNE-053 Inclement Weather (June 2022) (Time and Cost Implication) - 1day	1 20-Jul-24	20-Jul-24	20-Jul-24	20-Jul-24	0 SC31017	SC31099-1, SC31019-1				1	
SC31019-1	CNE-054 Inclement Weather (July 2022) - 4days	4 21-Jul-24	24-Jul-24	21-Jul-24	24-Jul-24	0 SC31018	-1 SC31020-1				1	
SC31020-1	CNE-055 Inclement Weather (July 2022) (Time and Cost Implication) - 1day	1 25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	0 SC31019	-1 SC31099-1, SC31021-1					
SC31021-1	CNE-056 Inclement Weather (August 2022) - 13.5days	14 26-Jul-24	08-Aug-24	26-Jul-24	08-Aug-24	0 SC31020	-1 SC31022-1					
SC31022-1	CNE-057 Inclement Weather (August 2022) (Time and Cost Implication) - 1day	1 08-Aug-24	09-Aug-24	08-Aug-24	09-Aug-24	0 SC31021	-1 SC31099-1, SC31023-1				1	
SC31023-1	CNE-058 Inclement Weather (September 2022) - 8days	8 09-Aug-24	17-Aug-24	09-Aug-24	17-Aug-24	0 SC31022	-1 SC31099-1, SC31024-1				•	
SC31024-1	CNE-059 Inclement Weather (October 2022) - 4days	4 17-Aug-24	21-Aug-24	17-Aug-24	21-Aug-24	0 SC31023	-1 SC31099-1	7			1	
	EWN-0314 Extention of Time for change of access date	239 21-Aug-24	16-Apr-25	21-Aug-24		0 SC31015	-1, SC31100-1					-
0004400.4	Fire add Operated as for Operation O		40 4 05*		40 4 05	SC31016		_				
	Expected Completion for Section 3	0 00 00 00 00	16-Apr-25*	40.14 .04	16-Apr-25	0 SC31099	-1	_				•
i ime Risk Allowar	nce and Planned Completion	26 22-Mar-25	16-Apr-25	10-May-24	05-Jun-24	-316						
SC31110	Time Risk Allowance for Section 3	26 22-Mar-25	16-Apr-25	10-May-24	05-Jun-24	-316 SC31001 S3C1160						
SC31120	Planned Completion for Section 3	0	16-Apr-25*		05-Jun-24	-316 SC31110	CD1040					•
Section 4 - Comple	te Construction & T&C for UV System No.1 & EP Station No. 1	1133 23-Oct-19 A	13-Sep-22 A	16-Apr-25	16-Apr-25							
Contractual Comp	pletion (Include Implemented CE)	1094 23-Oct-19 A	13-Sep-22 A	16-Apr-25	16-Apr-25							
SC41000		886 23-Oct-19 A	26-Mar-22 A	16-Apr-25	16-Apr-25		SC41001					
	Contract Duration of Section 4	000 25-0CF19A		-	.							
	Contract Duration of Section 4 Completion date - Section 4 (885 days after starting date)	0	26-Mar-22 A		16-Apr-25	SC41000	SC41002		•			
						SC41000	SC41002		Date	Revision	Checked	Approved

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 3 of 58 Hemaining Work

Critical Activity

Milestone

Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

Column C	Activity ID		Activity Name	Original Early Start	Early Finish	Late Start	Late Finish	Total Predecessors	Successors	9 2020	2021 2022	2023	2024	2025 26
19-01-19-19-19-19-19-19-19-19-19-19-19-19-19				Duration				Float		J 3 J J J A J J	J J 3 J J J 4	J J J A J J A J J A J A J A J A J A J A	11122222222	233333333333
Mile Mile	SC41	1002	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		•			
College Coll	SC41	1004	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	SC41100, SC41005				+	
Bed Section Comment Section of Section Comment	SC41	1005	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						
Secretary Secr	SC41	1006	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			1			
Page Page	SC41	1009	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	\dashv	1			
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SCH1000-1 NCE CNE 0300 Inchrenet Weather (Cabber 2021) - 4 Edges (Implementated) 5 (8 May 22A 12 May 22A 16 Apr 25 16 Apr 25 5 (24 1005-1 5 C2 1005-1	SC41	1004-1	NICE-CNE-0264 Inclement Weather (July 2021) - 19days (Implemented)	19 03-Apr-22 A	22-Apr-22 A	16-Apr-25	16-Apr-25		SC41005-1					
SCA1007-1 CNE-059 Indoment Weather (Costober 2021) Edays	SC41	1005-1	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		•			
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SC41012-1 CNE-040 Indemont Weather (Fobruary 2022) - 5days 5 80 May-22A 6 Jun-22A 6 Ju	SC41	1010-1	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	SC41011-1		1			
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SC41014-1 CNE-048 Inchement Weather (April 2022) - 2days 2 09-Jun 22 A 16-Apr 25 16-Apr 25 16-Apr 25 SC41013-1 SC41015-1 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	SC41	1012-1	CNE-040 Inclement Weather (February 2022) - 5days	5 30-May-22 A	04-Jun-22 A	16-Apr-25	16-Apr-25	SC41011-1	SC41013-1		1			
SC41015-1 CNE-050 Inclement Weather (May 2022) - 8days 8 11-Jun-22A 18-Jun-22A 16-Apr-25 16-Apr-25 16-Apr-25 SC41014-1 SC4100-1 S	SC41	1013-1	CNE-044 Inclement Weather (March 2022) - 4.5days	5 04-Jun-22 A	08-Jun-22 A	16-Apr-25	16-Apr-25	SC41012-1	SC41014-1		1			
SC41016-1 CNE-052 Inclement Weather (June 2022) - 9days 9 19-Jun-22A 27-Jun-22A 16-Apr-25 16-Apr-25 16-Apr-25 SC41015-1 SC41017-1 SC41018-1 SC4101	SC41	1014-1	CNE-048 Inclement Weather (April 2022) - 2days	2 09-Jun-22 A	10-Jun-22 A	16-Apr-25	16-Apr-25	SC41013-1	SC41015-1		1			
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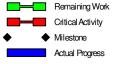
File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 4 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

Time Risk Allowance	Expected Completion for Section 4 See and Planned Completion Time Risk Allowance for Section 4 Planned Completion for Section 4 See all remaining Works (incl. T&C) Setion (Include Implemented CE) Contract Duration of Section 5	7 1 0 1989 2	<u> </u>	13-Sep-22 A 13-Sep-22 A 13-Sep-22 A 13-Sep-22 A	16-Apr-25	· ·	SC41015-1, SC41017-1, SC41001-1,			11111111111111431 <u>5</u>	3/331111111	11114444444	41433333333
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SC41120 P Section 5 - Complete Contractual Comple SC51000 C SC51001 C	Planned Completion for Section 4 e all remaining Works (incl. T&C) etion (Include Implemented CE)	1989 2	·	•	16-Apr-25	16-Apr-25	SC41001-1						1 1 1
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Contractual Comple SC51000 C SC51001 C	etion (Include Implemented CE)		23-Oct-19 A			16-Apr-25	S4C1100, SC41110	CD1040	\dashv \parallel \parallel \parallel \parallel \parallel \parallel \parallel	•			
Contractual Comple SC51000 C SC51001 C	etion (Include Implemented CE)			02-Apr-25	21-Nov-22	02-Apr-25	0						
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SC51003 N	NICE-CNE-0292 Inclement Weather (August 2021) - 19days (Implemented)	19 1	19-Apr-24	07-May-24	19-Apr-24	07-May-24	0 SC51002	SC51100, SC51004					
SC51004 N	NICE-CNE-0293 Inclement Weather (September 2021) - 3.5days (Implemented)	4 0	08-May-24	11-May-24	08-May-24	11-May-24	0 SC51003	SC51007				1	
SC51007 N	NICE-CNE-0313 Inclement Weather (November 2021) - 0.5days (Implemented)	1 1	11-May-24	11-May-24	11-May-24	11-May-24	0 SC51004	SC51008	\dashv \parallel \parallel \parallel \parallel \parallel \parallel \parallel			1	
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SC51009-1 C	CNE-036 Inclement Weather (January 2022) - 3days	3 2	27-May-24	29-May-24	27-Mav-24	29-May-24	0 SC51008-1	SC51010-1					
	CNE-040 Inclement Weather (February 2022) - 5days		30-May-24	03-Jun-24	-	03-Jun-24	0 SC51009-1	SC51011-1				1	
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SC51014-1 C	CNE-052 Inclement Weather (June 2022) - 9days	0 1	18-Jun-24	27-Jun-24	18-Jun-24	27-Jun-24	0 SC51013-1	SC51014-1					
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	CNE-056 Inclement Weather (August 2022) - 13.5days	14 0	03-Jul-24	16-Jul-24	03-Jul-24		0 SC51017-1	SC51019-1					
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	EWN-0314 Extention of Time for change of access date		30-Jul-24	02-Apr-25	30-Jul-24		0 SC51013-1,	SC51100-1					_
SC51100-1 E	Expected Completion for Section 5	0		02-Apr-25*		02-Apr-25	SC51015-1, 0 SC51099-1		_				
5551100-1 E	Exposice completion of occion a	U		02-Api-20		02-741-20	0 0001099-1				1 1 1	<u> </u>	<u> </u>

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 5 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

activity ID	Activity Name	Original E Duration	Early Start	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	9 202		2021 J J J S J J J	2022 JJA J J 123	2023 	2024 	2025 20
Time Risk Allo	owance and Planned Completion	12 2	22-Mar-25	02-Apr-25	05-May-24	16-May-24	-321							411444444444	17799999999
SC51110	Time Risk Allowance for Section 5	12 2	22-Mar-25	02-Apr-25	05-May-24	16-May-24	-321 SC51001-1, S5S1250,	SC51120							
SC51120	Planned Completion for Section 5	0		02-Apr-25*		16-May-24	-321 SC51110, PL1520, PL1560, S5S1040	CD1040							*
Compensati	on Event	1621 2	23-Oct-19 A	21-Nov-22	30-Jan-22	16-Apr-25	877								
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			•						
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 An 1-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, DOUNo.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			1	•					
CE0211	NCE-PPMI-0211 - Revised MVAC Layout & Electrical Provisions for MVAC in TX and Switch Rm	0		02-Dec-20 A		16-Apr-25				•					
	File Name: DE/2018/03 RP R28 Remaining Work			1.		,	Contract No.	DE/2019/0	2	:!		Date	Revision	Checked	Approved
	Layout: DE1803 RP (Nov 2022) - Critical Activity				Chale I	A/	ffluent Polishin			-a 1		31-Jul-22	Rev.24	LT	KM

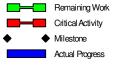
File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 6 of 58



Date	Revision	Checked	Approved
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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020	ΔΙΙΙΙ	2021 j	2022	2023		2024	2025 J J J J A	
		Duration					rioai						123	5373311	111111	11222222	22 233333	3 3 3 3 3 3
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	03-Dec-22	03-Dec-22		CD1010	CE0219b									
CE0219b	NCE-NCE-0219 - Revised Access Date for Portion B-2a	1	23-Mar-22 A	23-Mar-22 A	03-Dec-22	03-Dec-22		CE0219a	S5SASC1010			ı						
CE0219c	NCE-NCE-0219 - Portion B-2b (within 615 to 705 days from starting date)	705	23-Oct-19 A	24-Sep-21 A	02-Dec-22	02-Dec-22			CE0219d									
CE0219d	NCE-NCE-0219 - Revised Access Date for Portion B-2b	1	24-Sep-21 A	24-Sep-21 A	02-Dec-22	02-Dec-22		CE0219c	S5ECHC1000									
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 Disinfection 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						•						
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	File Name: DF/2018/03 RP R28 Remaining Work		- 1				~ -	- A A B1 -	DE /2010 /02	•			Date	Revi	JULI	Checked	I Appro	JVCU

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 7 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

CE0243 CE0244	NCE-PMI-0243 - Provision of Flow Signal Inputs for UV Disinfection System												
CE0244		0	12-Jul-21 A		16-Apr-25					777777777749	194444444444	<u> </u>	1434344344
GE0244	RCNE-CNE-0244 - Access to and use of portion C-1A	0	29-Jun-21 A	1	16-Apr-25				—				
CE0245	NCE-PMI-0245 - Provision of Augmented Reality (AR) Mobile Application	0	30-Jun-21 A	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	4	16-Apr-25				-				
CE0256	RCNE-CNE-0256 - Amber Rainstrom Warning and Inclement Weather - June 2021 (Time Implication)	0	05-Aug-21	4	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	4	16-Apr-25				•				
CE0259	NCE-PMI-0259 - Provision of Virtual Reality (VR) Safety Training Platform	0	13-Aug-21	4	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				-				
CE0262	NCE-PMI-0262 - Emergency Access Door for Lift at Sludge Dewatering Building	0	18-Nov-21	4	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	4	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	P	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	P	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				7				
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	4	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		C	E0273b					
CE0273b	NCE-NCE-0273 - Revised Access Date for Portion C-3	1 31-Dec-2	A 31-Dec-21	A 16-Apr-25	16-Apr-25	CE	E0273a						
CE0275	NCE-PMI-0275 - Additional Lighting Fittings for UV System No.1 & Effluent Pumping Station No.1	0	29-Sep-21	P	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	4	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	A	16-Apr-25				•				
	File Name: DE/2018/03 RP R28 Remaining Work	Ι					ract No. DE			Date	Revision	Checked	Approved

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 8 of 58



Date	Revision	Checked	Approved
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Activity ID	Activity Name	Original Early Start	Early Finish	Late Start		Total Predecessors	Successors	9 2020 2021	2022	2023 2024	2025 26
		Duration				Float		J S J J J J A J J J J S J	JJA J		
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-Nov-22	21-Nov-22*	20-Mar-22	20-Mar-22	-246 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-Nov-22	21-Nov-22*	13-May-22	13-May-22	-192 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-Nov-22	21-Nov-22*	30-Jan-22	30-Jan-22	-295 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 Walkway 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			-			
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			7			
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				•		
		1								Designation 1 or	dead Asset
	File Name: DE/2018/03 RP R28					Contract No	o. DE/2018/	03	Date 31-Jul-22	Revision Check Rev.24 LT	ked Approved KM
	Layout: DE1803 RP (Nov 2022) - Critical Activity			Shek \	Wu Hui Eff	luent Polishii	ng Plant - M	ain Works Stage 1	31-Aug-22	Rev.25 LT	KM
	WRS ♦ Milestone	ı									1

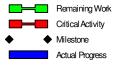
File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 9 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start		Float Predecessors	Successors	9	2020 JJA ,	2021 J J S J	2022	2023 J J J J A J 3 5 5 7 3 9 1 1 1	111111111	2024 JJA J J 222222222	2025 26
CE0328	NCE-PMI-0328 - Provision of Chequer Plates at SAS Pumping Station	0	22-Mar-22 A		16-Apr-25				+ + + + + + + + + + + + + + + + + + + +		•				111111111111111111111111111111111111111
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						•				
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						•				
					<u>'</u>						Date		· '		Approved

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 10 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
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30-Sep-22	Rev.26	LT	KM
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30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	9 2020 2021	2022 2023 2024 2025 2 J J J J J J J J J J J J J J J J J J J
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				•
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 Encbsures 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				
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				,
Preliminaries		2003 23-Oct-19 A	16-Apr-25	13-Apr-22					
Mobilisation		1687 23-Oct-19 A	04-Jun-24	13-Apr-22					
PL1000	Provison of Equipment / Facilities for the PM's Office	1687 23-Oct-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 AD1200, AD1220, CD1010	CD1040		
PL1010	Mobilisation	28 23-Oct-19 A	19-Nov-19 A	13-Apr-22	13-Apr-22		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	05-Jul-22	05-Jul-22	AD1200,	PL1040,		

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 11 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

y ID	Activity Name	Original E Duration	Early Start	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	9 2020 2021 2022 2023 2024 2025
PL1030	Design, Procurement & PO & Construction of Contractor's Storage Area (Works Area WA3)	503 2	20-Nov-19 A	05-Apr-21 A	03-Oct-23	03-Oct-23	AD1220, PL1010	PL1050	<u> </u>
PL1040	Maintain Contractor's Site Office	1255 2	28-Nov-20 A	05-May-24	03-Oct-23	17-Mar-25	316 PL1020	PL1060	
PL1050	Maintain Contractor's Storage Area	1126 (06-Apr-21 A	05-May-24	03-Oct-23	17-Mar-25	316 PL1030	PL1060	
PL1060	Removal of Site Office, Storage & Relevant Facilities	30 (06-May-24	04-Jun-24	18-Mar-25	16-Apr-25	316 PL1040, PL1050	CD1040	
Site Preliminarie	es	2003 2	23-Oct-19 A	16-Apr-25	13-Sep-23	16-Apr-25	0		
PL1070	Provision of Insurance, Third Party Insurances & PII	1687 2	23-Oct-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010	CD1040	
PL1080	Provision of 2 Contract Car for the Use of the PM & Supervisor	1687 2	23-Oct-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010	CD1040	
PL1090	Provision of 1 Electric Car for the Use of the PM & Supervisor	1596 2	22-Jan-20 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010, PL1010	CD1040	
PL1100	Provision of Photographs	1659 2	20-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010, PL1010	CD1040	
PL1110	Provision of Environmental Mitigation Measures	1659 2	20-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010, PL1010	CD1040	
PL1120	Provision of Air Pollution Abatment	1659 2	20-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010, PL1010	CD1040	
PL1130	Provision of Noise Pollution Abatment	1659 2	20-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010, PL1010	CD1040	
PL1140	Provision of Wastewater Pollution Abatement	1659 2	20-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010, PL1010	CD1040	
PL1150	Provision of Wastement Management		20-Nov-19 A				316 CD1010, PL1010	CD1040	
PL1160	Provision of Monitoring the Use of Ultra Low Sulphur Diesel		20-Nov-19 A				316 CD1010, PL1010	CD1040	
PL1170	Provision of Environmental Management		20-Nov-19 A		03-Oct-23		316 CD1010, PL1010	CD1040	
PL1180	Provision of Site Management Plan for Trip Ticket System		20-Nov-19 A				316 CD1010, PL1010	CD1040	
PL1190	Provision of As-constructed Drawings for Section 3	180 2	27-Feb-24	24-Aug-24	12-Nov-23	10-May-24	-107 CD1010, S3C1150	CD1040, SC31110	
PL1200	Provision of As-constructed Drawings for Section 4		13-Oct-22 A	11-Dec-22			857 CD1010, S4C1160,	CD1040, SC41110	
PL1210	Provision of As-constructed Drawings for Section 5	180 2	29-Jan-24	26-Jul-24	07-Nov-23	04-May-24	-83 CD1010, S5DIGC104	CD1040, SC51110	
PL1220	Provision of Systematic Risk Management	1659 2	20-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010, PL1010	CD1040	
PL1230	Provision of Site Liaison Group & Community Liaison Group	1659 2	20-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316 CD1010, PL1010	CD1040	
PL1240	Provision of 24-Hour Telephone Line		20-Nov-19 A				316 CD1010, PL1010	CD1040	
PL1260	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 3		21-Nov-22	18-Feb-23	13-Sep-23			PL1270	
PL1270	Provision of Training for Employer's Staff for Section 3	60 2	20-May-23	18-Jul-23	11-Mar-24	10-May-24	297 CD1010, PL1260	CD1040, SC31110	
PL1280	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 4	27 2	21-Nov-22	17-Dec-22	09-Mar-25	04-Apr-25	839	PL1290	
PL1290	Provision of Training for Employer's Staff for Section 4	12	18-Dec-22	29-Dec-22	05-Apr-25	16-Apr-25	839 CD1010, S4T1020, PL1280	CD1040, SC41110	
PL1300	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 5	90 (02-Aug-24	30-Oct-24	08-Oct-23	05-Jan-24	-299	PL1310	
PL1310	Provision of Training for Employer's Staff for Section 5	30 2	29-Jan-25	27-Feb-25	05-Apr-24	04-May-24	-299 CD1010, S5T1180,	CD1040, SC51110	
PL1320	Prepare & Submit O&M Manual for Section 3	90 (06-Nov-24	03-Feb-25	26-Dec-23	25-Mar-24	-316 CD1010	CD1040, PL1330	
PL1330	PM Reivew & Comment O&M Manual for Section 3		04-Feb-25	24-Feb-25			-316 PL1320	PL1340	
PL1340 PL1350	Revise & Re-submit O&M Manual for Section 3 PM Reivew & Approval of O&M Manual for Section 3		25-Feb-25 27-Mar-25	26-Mar-25 16-Apr-25		-	-316 PL1330 -316 PL1340	PL1350 CD1040,	

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 12 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
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30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Ea	arly Start	Early Finish	Late Start	Late Finish	Tota Float	Predecessors	Successors	9 2020 2021	2022	2023	2024 J J A J	2025 26
PL1360	Prepare & Submit O&M Manual for Section 4	50 0	7-Feb-22 A	28-Mar-22 A	26-Mar-25	26-Mar-25		CD1010	CD1040, PL1370	11-1-1-1-1-1	1-	13/13/11/11/11/11	111144444444	1233333333333
PL1370	PM Reivew & Comment O&M Manual for Section 4	36 29	9-Mar-22 A	03-May-22 A	26-Mar-25	26-Mar-25		PL1360	PL1370	\dashv				
PL1380	Revise & Re-submit O&M Manual for Section 4	79 04	4-May-22 A	21-Nov-22	26-Mar-25	26-Mar-25	856	6 PL1370	PL1390					
PL1390	PM Reivew & Approval of O&M Manual for Section 4	21 22	2-Nov-22	12-Dec-22	27-Mar-25	16-Apr-25	856	6 PL1380	CD1040,					
PL1400	Prepare & Submit O&M Manual for Section 5	90 23	3-Oct-24	20-Jan-25	07-Dec-23	05-Mar-24	-321	CD1010	SC41110 CD1040,					
PL1410	PM Reivew & Comment O&M Manual for Section 5	21 2	1-Jan-25	10-Feb-25	06-Mar-24	26-Mar-24	-321	PI 1400	PL1410 PL1420	_				
PL1420	Revise & Re-submit O&M Manual for Section 5		1-Feb-25	12-Mar-25	27-Mar-24				PL1430					_
PL1430	PM Reivew & Approval of O&M Manual for Section 5		3-Mar-25	02-Apr-25		16-May-24			CD1040, SC51110					
PL1440	Provision of ICE for Certification of the Design, Cal, Dwgs, Plans and all relevant Doc and Process Commissioning	1659 20	0-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316	CD1010, PL1010	CD1040					
Site Upkeeping	J. Committee of the com	1659 20	0-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316							
PL1450	General Site Upkeeping of the Site	1659 20	0-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316	CD1010, PL1010	CD1040					
Safety and Envir	onmental Management	1675 1	0-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316							
PL1460	Construction Health and Safety Plan	1669 1	0-Nov-19 A	04-Jun-24	03-Oct-23	16-Apr-25	316	6 CD1000	CD1040				-	
PL1470	Site Traffic Safety Management Plan	1137 2	5-Apr-21 A	04-Jun-24	03-Oct-23	16-Apr-25	316	6 AD1010	CD1040					
Compliance with	n BEAM Requirements	1129 1	1-Jun-21 A	13-Aug-24	24-Nov-22	16-May-24	-89	9						
Sludge Dewate			1-Jun-21 A			16-May-24								
PL1490	Material Submission & Design Calculation Approved	0		11-Jun-21 A	10 0011 20	16-Jan-23		S2D1290,	PL1500,					
	,,,							S2D1330,	SC21120					
PL1500	Issued approved submission & Calculation to Cinotech	161 2	1-Sep-21 A	11-Mar-22 A	16-Jan-23	16-Jan-23		PL1490	PL1510					
PL1510	Monthly Review & Submission	500 09	9-Sep-22 A	21-Jan-24	16-Jan-23	17-Mar-24	56	PL1500	PL1520					
PL1520	Submission & Approval of Test Record	60 10	6-Apr-24	14-Jun-24	18-Mar-24	16-May-24	-29	PL1510, S5T1060	SC51120					
CHP Building		1129 1	1-Jun-21 A	13-Aug-24	24-Nov-22	16-May-24	-89)						
PL1530	Material Submission & Design Calculation Approved	0		11-Jun-21 A		24-Nov-22		S2D1610	PL1540, SC21120	•				
PL1540	Issued approved submission & Calculation to Cinotech	168 2	1-Sep-21 A	11-Mar-22 A	24-Nov-22	24-Nov-22		PL1530	PL1550	_				
PL1550	Monthly Review & Submission	480 22	2-Nov-22	15-Mar-24	24-Nov-22	17-Mar-24	2	2 S5CHPC1020, PL1540	PL1560					
PL1560	Submission & Approval of Test Record	60 1	5-Jun-24	13-Aug-24	18-Mar-24	16-May-24	-89	PL1550, S5T1100	SC51120				-	
BIM		1623 24	4-Oct-19 A	02-Apr-24	05-Dec-23	16-Apr-25	379							
PL1570	Prepare & Submit Construction Stage BIM Execution Plan	30.2	4-Oct-19 ∆	22-Nov-19 A	05-Dec-23	05-Dec-23		CD1010	PL1580,	-				
1 21070	Trepare & Guornii Gorisi udion Glage Diivi Execution Fiam	30 2	4-001-13 A	22-NOV-13 A	03-060-23	03-Dec-23		OBTOTO	PL1630, PL1620					
PL1580	PM Reivew & Comment Construction Stage BIM Execution Plan	21 23	3-Nov-19 A	13-Dec-19 A	05-Dec-23	05-Dec-23		PL1570	PL1590					
PL1590	Revise & Re-submit Construction Stage BIM Execution Plan	14 14	4-Dec-19 A	27-Dec-19 A	05-Dec-23	05-Dec-23		PL1580	PL1600					
PL1600	PM Reivew & Approval of Construction Stage BIM Execution Plan	21 28	8-Dec-19 A	17-Jan-20 A	05-Dec-23	05-Dec-23		PL1590	PL1630,					
PL1610	Contractor Review & Study Design Stage BIM	92 2	4-Oct-19 A	23-Jan-20 A	05-Dec-23	05-Dec-23		CD1010	PL1620 CD1040,					
PL1620	Contractor Develop 1st Construction Stage BIM	60 24	4-Jan-20 A	23-Mar-20 A	05-Dec-23	05-Dec-23		PL1600,	PL1640, CD1040,					
PL1630	Review & Update BIM Execution Plan & BIM Model	1415 2	4-Mar-20 A	06-Feb-24	05-Dec-23	19-Feb-25	379	PL1570, PL1570,	PL1640, CD1040,					
PL1640	Prepare & Submit the Fully Coordinated BIM	60 09	9-Dec-23	06-Feb-24	22-Dec-24	19-Feb-25	379	PL1620, PL1620,	PL1640 PL1650			-		
-								PL1630,				<u> </u>	<u> </u>	
	File Name: DE/2018/03 RP R28							ontract No.	DF/2018/0	 03	Date	Revision	Checked	Approved
	Layout: DE1803 RP (Nov 2022) - Critical Activity				Shok \	A/ U C				ain Works Stage 1	31-Jul-22	Rev.24	LT	KM

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 13 of 58 Hemaning Work
Critical Activity

Milestone
Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

/ ID	Activity Name	Original Early Start	Early Finish	Late Start		Total Predecessors	Successors	9 2020 2021	2022 2023 2024 2025
		Duration				Float		J S J J J J J A J J J J S	J
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		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		
ection 1 - D	esign for UV System No. 1 & Effluent Pumping Station No.1	284 21-Nov-19 A	08-Aug-20 A	31-May-22	16-Apr-25				
Major Plant & Ma	aterials Procurement	240 21-Nov-19 A	17-Jul-20 A	31-May-22	15-Feb-23				
S1P1000	Procurement & PO for UV Disinfection System (S10)	150 21-Nov-19 A	28-Apr-20 A	31-May-22	31-May-22	CD1000,	SC11110,	-	
3.1. 1888		33 2 133 33 3	-57φ57	0ay ==	0 : may ==	CD1010, PL1010	S4P1040, S1D1000, S1P1030		
S1P1010	Procurement & PO for Lift-up Pumps (S11)	150 21-Nov-19 A	28-Apr-20 A	31-May-22	31-May-22	CD1010, PL1010	SC11110, S4P1070, S1D1000		
S1P1020	Procurement & PO for Transfer Pumps (S13)	150 21-Nov-19 A	28-Apr-20 A	31-May-22	31-May-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	15-Feb-23	15-Feb-23	S1P1000	SC11110, S4P1100		
S1P1040	Procurement & PO for Stoplogs (S21)	90 18-Apr-20 A	17-Jul-20 A	15-Feb-23	15-Feb-23	S1P1020, PL1010	SC11110, S4P1110, S2P1160		
S1P1050	Procurement & PO for Penstocks (S21)	90 18-Apr-20 A	17-Jul-20 A	15-Feb-23	15-Feb-23	S1P1020, PL1010	SC11110, S4P1120, S2P1170		
Design & Submi	ssion	217 27-Jan-20 A	08-Aug-20 A	31-May-22	16-Apr-25				
Conoral Among	ement Drawings	217 27-Jan-20 A	09 Aug 20 A	21 May 22	16 Apr 25				
_	ement brawings	217 27-Jan-20 A	00-Aug-20 A	31-1VIAY-22	10-Api-25				
S1D1000	Prepare & Submit General Arrangement Drawings	90 27-Jan-20 A	19-Feb-20 A	31-May-22	31-May-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 & Dimensi	onal / Tolerance Requirement Drawings	176 07-Mar-20 A	08-Aug-20 A	15-Feb-23	16-Apr-25				
S1D1040	Prepare & Submit Civil Requirement Drawings	60 07-Mar-20 A	08-Apr-20 A	15-Feb-23	15-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	S1D1000	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	- I	
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		16-Apr-25	16-Apr-25	S1D1070	S1D1090		
S1D1090	Review & Accept of Civil Requirement Drawings by PM	5 06-Aug-20 A			16-Apr-25	S1D1080	SC11110	1	
Electrical Schei	matic Drawings	116 25-Feb-20 A	03-Jun-20 A	31-May-22	31-May-22				
S1D1100	Prepare & Submit Elec. Schematic Drawings	60 25-Feb-20 A	03-Apr-20 A	31-May-22	31-May-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	31-May-22	31-May-22	S1D1100	S1D1120		
					31-May-22	S1D1110	S1D1130		

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 14 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Bev28	ΙΤ	KM

е	Original Early Start	Early Finish	Late Start	Late Finish	Total Predecessors	Successors	9 2020 2021	2022 2023	2024 2025 26
								123 5373311111111	111122222222 2333333333333
ccept of Elec. Schematic Drawings by PM	21 05-May-20 A	03-Jun-20 A	31-May-22	31-May-22	S1D1120	S5TXRP1000, S4C1000, S4C1010, S4P1020, SC11110			
	146 24-Mar-20 A	08-Aug-20 A	31-May-22	16-Apr-25					
Submit Wiring Dwgs, Cable Schedule & Design Cal.	60 24-Mar-20 A			-	CD1010, S1D1100	S1D1150, S1D1180	•		
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	<u> </u>		
te-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 02-Jun-20 A	10-Jul-20 A	16-Apr-25	16-Apr-25	S1D1150	S1D1170			
accept of Wiring Dwgs, Cable Schedule & Design Cal.	21 11-Jul-20 A	06-Aug-20 A			S1D1160	SC11110	<u> </u>		
Submit the Schedule, Design Cal. & Fixing Details of Equipment	60 15-Apr-20 A	29-May-20 A	31-May-22	31-May-22	CD1010, S1D1140, S1D1000	S1D1190, S4C1020	•		
Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 30-May-20 A	19-Jun-20 A	31-May-22	31-May-22	S1D1180	S1D1200			
le-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 20-Jun-20 A	23-Jul-20 A	31-May-22	31-May-22	S1D1190	S1D1210	•		
ccept of the Schedule, Design Cal. & Fixing Details of Equipment	14 24-Jul-20 A	08-Aug-20 A	31-May-22	31-May-22	S1D1200	S4P1040, S5TXRP1000, S5TXRP1010, SC11110			
	139 24-Mar-20 A	08-Aug-20 A	31-May-22	16-Apr-25					
Submit Wiring Dwgs, Cable Schedule & Design Cal.	60 24-Mar-20 A	08-May-20 A	31-May-22	31-May-22	CD1010, S1D1100	S1D1230, S1D1260, S1D1300			
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			
le-submit Wiring Dwgs, Cable Schedule & Design Cal.	14 02-Jun-20 A	10-Jul-20 A	16-Apr-25	16-Apr-25	S1D1230	S1D1250			
ccept of Wiring Dwgs, Cable Schedule & Design Cal.	21 11-Jul-20 A	08-Aug-20 A	16-Apr-25	16-Apr-25	S1D1240	SC11110			
Submit the Schedule, Design Cal. & Fixing Details of Equipment	60 15-Apr-20 A	29-May-20 A	31-May-22	31-May-22	CD1010, S1D1220, S1D1000	S1D1270, S4C1020			
Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 30-May-20 A	19-Jun-20 A	31-May-22	31-May-22	S1D1260	S1D1280			
le-submit the Schedule, Design Cal. & Fixing Details of Equipment	14 20-Jun-20 A	23-Jul-20 A	31-May-22	31-May-22	S1D1270	S1D1290			
ccept of the Schedule, Design Cal. & Fixing Details of Equipment	14 24-Jul-20 A	08-Aug-20 A	31-May-22	31-May-22	S1D1280	S4P1110, S4P1120, S4P1070, S4P1080, S4P1090, S4P1100, S5TXRP1000, S5TXRP1010, S5TXRP1020, S4P1130, SC11110			
	147 15-Mar-20 A	06-Aug-20 A	12-Oct-22	27-Mar-25					
Submit BS Works Design & Dwgs UV System No.1 & Effluent Pumping Station	90 15-Mar-20 A	27-Jul-20 A	12-Oct-22	12-Oct-22	S1D1220	S1D1320, S1D1310			
ccept of BS Works Design & Dwgs UV System No.1 & Effluent Pumping Station	8 21-Jul-20 A	05-Aug-20 A	12-Oct-22	12-Oct-22	S1D1300	SC11110, S5TXRC1030, S4C1110	•		
Submit FS Works Design & Dwgs UV System No.1 & Effluent Pumping Station	60 14-Apr-20 A	05-Aug-20 A	27-Mar-25	27-Mar-25	S1D1300	S1D1330			
ccept of FS Works Design & Dwgs UV System No.1 & Effluent Pumping Station	8 09-Jul-20 A	06-Aug-20 A	27-Mar-25	27-Mar-25	S1D1320	SC11110, S4P1030, S4P1140, S4P1150			
	Design & Dwgs UV System No.1 & Effluent Pumping Station	Design & Dwgs UV System No.1 & Effluent Pumping Station 8 09-Jul-20 A	Design & Dwgs UV System No.1 & Effluent Pumping Station 8 09-Jul-20 A 06-Aug-20 A	Design & Dwgs UV System No.1 & Effluent Pumping Station 8 09-Jul-20 A 06-Aug-20 A 27-Mar-25	Design & Dwgs UV System No.1 & Effluent Pumping Station 8 09-Jul-20 A 06-Aug-20 A 27-Mar-25 27-Mar-25	Design & Dwgs UV System No.1 & Effluent Pumping Station 8 09-Jul-20 A 06-Aug-20 A 27-Mar-25 27-Mar-25 S1D1320	Design & Dwgs UV System No.1 & Effluent Pumping Station 8 09-Jul-20 A 06-Aug-20 A 27-Mar-25 27-Mar-25 S1D1320 SC11110, S4P1030, S4P1140, S4P1150	Design & Dwgs UV System No.1 & Effluent Pumping Station 8 09-Jul-20 A 06-Aug-20 A 27-Mar-25 27-Mar-25 S1D1320 SC11110, S4P1030, S4P1140, S4P1150	Design & Dwgs UV System No.1 & Effluent Pumping Station 8 09-Jul-20 A 06-Aug-20 A 27-Mar-25 27-Mar-25 S1D1320 SC11110, S4P1030, S4P1140, S4P1150

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 15 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

vity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start		Total Predecessors	Successors 9	2020	2021 J J J 3 J J	2022 J J A J	2023	2024	2025 J J J A
Section 2 - C	Complete All Designs (exclude Sec. 1 & 3)	943 20-Nov-19 A	21-Nov-22	31-Oct-21	16-Apr-25	877	1-1-1-1	· - - - - - - - - - -	<u>- - - - - - - - - - - - - - - - - - - </u>	123 5	5373311111111	1111123233333	1 2 3 3 3 3 3 3 3 3
Major Plant & N	laterials Procurement	571 20-Nov-19 A	23-Apr-21 A	13-Apr-22	16-Apr-25								
S2P1000	Procurement & PO for Sludge Screening System (S2)	150 18-May-20 A	16-Oct-20 A	06-May-22	06-May-22	S2P1020	SC21110, S2D1260, S5P1000, S2P1060, S2P1150, S5P1030						
S2P1010	Procurement & PO for Sludge Thickening System (S3)	180 20-Nov-19 A	08-Jun-20 A	06-May-22	06-May-22	PL1010, CD1010	SC21110, S2D1300, S2P1030						
S2P1020	Procurement & PO for Sludge Digestion System (S5)	150 18-Feb-20 A	12-Aug-20 A	06-May-22	06-May-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	06-May-22	06-May-22	PL1010, CD1010, S2P1010	SC21110, S2D1460						
S2P1040	Procurement & PO for THP System (S4)	180 20-Nov-19 A	05-Jun-20 A	13-Apr-22	13-Apr-22	CD1010, PL1010	SC21110, S5THPP1000, S2D1340, S2P1020						
S2P1050	Procurement & PO for Biogas Holding Tanks(S7)	180 20-Nov-19 A	20-Aug-20 A	06-May-22	06-May-22	PL1010	SC21110, S5BIOP1010, S2D1500						
S2P1060	Procurement & PO for H2S Removal System (S7)	234 17-Jul-20 A	17-Mar-21 A	06-May-22	06-May-22	S2P1000	SC21110, S5H2SP1000, S2D1500		_				
S2P1070	Procurement & PO for CHP System (S8)	180 20-Nov-19 A	08-Jun-20 A	06-May-22	06-May-22	PL1010	SC21110, S5CHPP1010, S2D1540, S2P1110						
S2P1080	Procurement & PO for Waste Gas Burning System (S9)	150 17-Jul-20 A	15-Jan-21 A	09-Sep-22	09-Sep-22		SC21110, S5WGBP1000		•				
S2P1090	Procurement & PO for Plant Service Water System (S12)	150 18-May-20 A	30-Sep-20 A	06-May-22	06-May-22		SC21110, S5PSWP1000, S2D1660, S2P1190						
S2P1100	Procurement & PO for SAS Pumping System (S14)	150 18-May-20 A	30-Sep-20 A	05-Jul-22	05-Jul-22		SC21110, S5SASP1000, S2D1700, S2P1220						
S2P1110	Procurement & PO for Transfomers (S17)	150 18-Feb-20 A	13-Jul-20 A	06-May-22	06-May-22	S2P1070	SC21110, S5WS2P1000, S2P1120, S2P1140, S5TXRP1000						
S2P1120	Procurement & PO for 11 kV Switchboard (S17)	150 18-Feb-20 A	13-Jul-20 A	06-May-22	06-May-22	S2P1110	SC21110, S5WS2P1060, S2P1130						
S2P1130	Procurement & PO for 380V Switchboard (S17)	174 21-Nov-20 A	23-Apr-21 A	06-May-22	06-May-22	S2P1120, S2D1220	SC21110, S5WS2P1090, S5P1050, S5TXRP1010						
S2P1140	Procurement & PO for Control & Monitoring System (S18)	183 17-Jul-20 A	11-Jan-21 A	27-Jan-23	27-Jan-23	PL1010, S2P1110	SC21110, S5TXRP1020		1				
S2P1150	Procurement & PO for DO System (S21)	150 15-Apr-20 A	24-Jun-20 A	03-Nov-22	03-Nov-22	S2P1000	SC21110, S5DOUP1000, S2D1930						
S2P1160	Procurement & PO for Stoplog (S21)	90 18-Apr-20 A	17-Jul-20 A	12-Mar-23	12-Mar-23	PL1010, S1P1040	SC21110, S5SASP1010, S2P1170						
	File Name: DE/2018/03 RP R28 Remaining Wo	,,,, , , , , , , , , , , , , , , , , ,					DE 100 : 0 15 -		I	Date	Revision	Checked	Approved
	File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) - Critical Activity						. DE/2018/03			31-Jul-22	Rev.24	LT	KM
	Layout: DE 1603 RP (Nov 2022) -			Shek \	№ u Hui Effl	uent Polishin	ig Plant - Main Woi	ks Stage 1		31-Aug-22	Rev.25	lт	КМ

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 16 of 58

Critical Activity

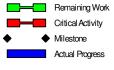
Milestone

Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev28	ΙΤ	KM

tivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	9 2020 2021 2022 2023 2024 2025
S2P1170	Procurement & PO for Penstock (S21)	90 18-Apr-20 A	17-Jul-20 A	12-Mar-23	12-Mar-23	PL1010, S2P1160, S1P1050	SC21110, S5SASP1020	<u></u>
S2P1180	Procurement & PO for Sewage Pump (S21)	120 18-May-20 A	30-Sep-20 A	13-Nov-22	13-Nov-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	
S2P1200	Procurement & PO for External Sludge Transfer Pump (S21)	348 18-May-20 A	14-Apr-21 A	29-Dec-22	29-Dec-22	S2P1180	SC21110, S2D1960	
S2P1210	Procurement & PO for THP Cooling Pump (S21)	150 18-May-20 A	04-Dec-20 A	29-Dec-22	29-Dec-22	S2P1020	SC21110, S5TCWP1000, S2D1970	
S2P1220	Procurement & PO for Temporary Primary Sludge Pump (S21)	348 18-May-20 A	14-Apr-21 A	05-Jul-22	05-Jul-22	PL1010, S2P1100	SC21110, S5ECHP1000	
Design & Submi	ssion	860 20-Nov-19 A	11-Jun-21 A	13-Apr-22	16-Apr-25			
General Arrang	ement Drawings	715 20-Nov-19 A	11-Jun-21 A	13-Apr-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	13-Apr-22	13-Apr-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	01-Jun-22	01-Jun-22	PL1010, S2D1000	S2D1050, S2D1120	
S2D1050	Review & Comment on General Arrangement Drawings by PM (remaining)	21 05-Sep-20 A	08-Feb-21 A	01-Jun-22	01-Jun-22	S2D1040	S2D1060	
S2D1060	Revise & Re-submit General Arrangement Drawings (remaining)	248 06-Oct-20 A	10-Jun-21 A	01-Jun-22	01-Jun-22	S2D1050	S2D1070	
S2D1070	Review & Accept of General Arrangement Drawings by PM (remaining)	77 26-Mar-21 A	11-Jun-21 A	01-Jun-22	01-Jun-22	S2D1060	SC21110, S5S1060, S5P1010, S5S1050	
Civil & Dimensi	onal / Tolerance Requirement Drawings	522 04-Mar-20 A	11-Jun-21 A	06-May-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	06-May-22	06-May-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	03-Aug-22	03-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	03-Aug-22	03-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	03-Aug-22	03-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 Sche	matic Drawings	754 05-Mar-20 A	11-Jun-21 A	06-May-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	06-May-22	06-May-22	S2D1000	S2D1170, S2D1260, S2D1660, KD1010, S2D1220	
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	File Name: DE/2018/03 RP R28	i i				Contract No.	DE /2010 /03	Date Revision Checked Approved

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 17 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

	Activity Name	Original Early Start Duration	Early Finish	Late Start		Total Predecessors Toat	Successors 9	2020 2021 2022 2023 2024 2025 2025 2025 2025 2025 2025 2025
S2D1170	Review & Comment on Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21 17-Mar-20 A	24-Mar-20 A	06-May-22	06-May-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	06-May-22	06-May-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	06-May-22	06-May-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	06-May-22	06-May-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	08-Aug-22	08-Aug-22	S2D1220	S2D1240	
S2D1240	Revise & Re-submit Elec. Schematic Drawings (remaining)	443 25-Mar-20 A	10-Jun-21 A	08-Aug-22	08-Aug-22	S2D1230	S2D1250	
S2D1250	Review & Accept of Elec. Schematic Drawings by PM (remaining)	21 24-May-21 A	11-Jun-21 A	08-Aug-22	08-Aug-22	S2D1240, S2D1190	SC21110, S5WS2P1090	
Sludge Screening	g (SSc)	357 02-Jul-20 A	11-Jun-21 A	06-May-22	16-Jan-23			
S2D1260	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	344 02-Jul-20 A	10-Jun-21 A	06-May-22	06-May-22	S2D1160, S2P1000	S2D1270	
S2D1270	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21 24-May-21 A	11-Jun-21 A	06-May-22	06-May-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	16-Jan-23	16-Jan-23		S2D1290	
S2D1290	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21 24-May-21 A	11-Jun-21 A	16-Jan-23	16-Jan-23	S2D1280	SC21110, PL1490	
Sludge Thickenin	ng (STh)	357 02-Jul-20 A	11-Jun-21 A	06-May-22	16-Jan-23			
S2D1300	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	344 02-Jul-20 A	10-Jun-21 A	06-May-22	06-May-22	S2P1010	S2D1310	
S2D1310	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21 24-May-21 A	11-Jun-21 A	06-May-22	06-May-22	S2D1300	SC21110, S5P1050	
S2D1320	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	274 10-Sep-20 A	10-Jun-21 A	16-Jan-23	16-Jan-23		S2D1330	
S2D1330	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21 24-May-21 A	11-Jun-21 A	16-Jan-23	16-Jan-23	S2D1320	SC21110, PL1490	
Thermal Hydroly	sis Process (THP)	416 18-May-20 A	11-Jun-21 A	13-Apr-22	02-Nov-22			
S2D1340	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	241 18-May-20 A	07-Jan-21 A	13-Apr-22	13-Apr-22	S2P1040, S2D1000	S2D1350, S2D1970	
S2D1350	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 08-Jan-21 A	27-Jan-21 A	13-Apr-22	13-Apr-22	S2D1340	S2D1360	
S2D1360	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	117 28-Jan-21 A	17-May-21 A	13-Apr-22	13-Apr-22	S2D1350	S2D1370	
S2D1370	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	24 18-May-21 A	11-Jun-21 A	13-Apr-22	13-Apr-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	02-Nov-22	02-Nov-22		S2D1390	
S2D1390	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 08-Jan-21 A	27-Jan-21 A	02-Nov-22	02-Nov-22	S2D1380	S2D1400	
S2D1400	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	117 28-Jan-21 A	17-May-21 A	02-Nov-22	02-Nov-22	S2D1390	S2D1410	
S2D1410	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	24 18-May-21 A	11-Jun-21 A	02-Nov-22	02-Nov-22	S2D1400	S5THPP1000, SC21110	
Sludge Digestion	n (SDi)	325 01-Aug-20 A	11-Jun-21 A	06-May-22	22-Jul-22			
S2D1420	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	314 01-Aug-20 A	10-Jun-21 A	06-May-22	06-May-22	S2P1020	S2D1430	

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 18 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

y ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Predecessor	rs Successors				2021 J J S J J J		202 J J J J 2 3 5 3 7 3 3	JA		2025 2 J J J A J 2 2 2 3 3 3 3 3 3 3 3
S2D1430	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21 24-May-21	A 11-Jun-21 A	06-May-22	06-May-22	S2D1420	SC21110, S5P1050			111111			19 1997/92	11111111	1114444444	1144444444444
S2D1440	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	284 31-Aug-20	A 10-Jun-21 A	22-Jul-22	22-Jul-22		S2D1450									
S2D1450	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21 24-May-21	A 11-Jun-21 A	22-Jul-22	22-Jul-22	S2D1440	S5DIGP1000, SC21110, PL1490			١						
Sludge Dewater	ing (SDe)	357 02-Jul-20 A	11-Jun-21 A	06-May-22	16-Jan-23											
S2D1460	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	344 02-Jul-20 A	10-Jun-21 A	06-May-22	06-May-22	S2P1030	S2D1470				1					
S2D1470	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21 24-May-21	A 11-Jun-21 A	06-May-22	06-May-22	S2D1460	SC21110, S5P1050			1	•					
S2D1480	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	284 31-Aug-20	A 10-Jun-21 A	16-Jan-23	16-Jan-23		S2D1490									
S2D1490	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21 24-May-21	A 11-Jun-21 A	16-Jan-23	16-Jan-23	S2D1480	SC21110, PL1490			1	•					
Biogas Storage	& Pre-Treatment (BSPT)	295 31-Aug-20	A 11-Jun-21 A	06-May-22	01-Jun-22											
S2D1500	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	284 31-Aug-20	A 10-Jun-21 A	06-May-22	06-May-22	S2P1060, S2P1050	S2D1510		+		•					
S2D1510	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21 24-May-21	A 11-Jun-21 A	06-May-22	06-May-22	S2D1500	SC21110, S5P1050			1						
S2D1520	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	232 22-Oct-20 A	10-Jun-21 A	01-Jun-22	01-Jun-22		S2D1530	1	•							
S2D1530	Review & Accept on the Schedule, Design Cal. & Fixing Details of Equipment	21 24-May-21	A 11-Jun-21 A	01-Jun-22	01-Jun-22	S2D1520	S5BIOP1010, S5H2SP1000, SC21110			1						
Combined Heat	& Power Generation (CHP)	512 18-May-20	A 11-Jun-21 A	06-May-22	04-Jun-22											
S2D1540	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	233 18-May-20	A 21-Jul-20 A	06-May-22	06-May-22	S2P1070	S2D1550		-							
S2D1550	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21 22-Jul-20 A	11-Aug-20 A	06-May-22	06-May-22	S2D1540	S2D1560, S2D1870									
S2D1560	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28 12-Aug-20	A 21-Dec-20 A	06-May-22	06-May-22	S2D1550	S2D1570									
S2D1570	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	171 22-Dec-20	A 11-Jun-21 A	06-May-22	06-May-22	S2D1560	SC21110, S5P1050				•					
S2D1580	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	180 18-May-20	A 21-Jul-20 A	04-Jun-22	04-Jun-22		S2D1590		-							
S2D1590	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 22-Jul-20 A	11-Aug-20 A	04-Jun-22	04-Jun-22	S2D1580	S2D1600		•							
S2D1600	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28 12-Aug-20	A 21-Dec-20 A	04-Jun-22	04-Jun-22	S2D1590	S2D1610		-	-						
S2D1610	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	171 22-Dec-20	A 11-Jun-21 A	04-Jun-22	04-Jun-22	S2D1600	S5CHPP1010, SC21110, S5S1020, PL1530						\\\			
Waste Gas Burn	ning System (WGB)	264 15-Oct-20 A	11-Jun-21 A	06-May-22	09-Sep-22											
S2D1620	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	239 15-Oct-20 A	10-Jun-21 A	06-May-22	06-May-22		S2D1630		•		•					
S2D1630	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21 24-May-21	A 11-Jun-21 A	06-May-22	06-May-22	S2D1620	SC21110, S5P1050			1	•					
S2D1640	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	194 29-Nov-20	A 10-Jun-21 A	09-Sep-22	09-Sep-22		S2D1650									
S2D1650	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	S2D1640	S5WGBP1000, SC21110									
Plant Service W	ater System (PSW)	325 16-Aug-20	A 11-Jun-21 A	06-May-22	16-Aug-22											
S2D1660	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	299 16-Aug-20	A 10-Jun-21 A	06-May-22	06-May-22	S2D1080 S2D1160, S2P1090	S2D1670									
S2D1670	Review & Accept on Wiring Dwgs, Cable Schedule & Design Cal.	21 24-May-21	A 11-Jun-21 A	06-May-22	06-May-22	S2D1660	SC21110, S5P1050			1	•					
S2D1680	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	239 15-Oct-20 A	10-Jun-21 A	16-Aug-22	16-Aug-22		S2D1690		•		•					
	File Name: DE/2018/03 RP R28 Remaining Work		J			Caratuant	No DF/2018/0		1 1	1 1	. 1 1 1	Date		Revision	Checked	Appi

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 19 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

Activity ID	Activity Name	Original Early Start	Early Finish	Late Start	Late Finish	Total Pred	edecessors	Successors	-	2020 J J A	2021	202		2023	20:		2025 26
0001000			44 1 04 4	10.4 00	10.1		D1000	OF DOWN AND			<u> </u>		1235	37331111	111112	3222222	23333333333
S2D1690	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 24-May-21 A	11-Jun-21 A	16-Aug-22	16-Aug-22	S21		S5PSWP1000, SC21110			•						
Surplus Activate	d Sludge Pumping Station (SAS)	440 01-Aug-20 A	11-Jun-21 A	18-Feb-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	S2I	P1100	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	S2I	D1700	S2D1720		1							
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	S2I	PD1710	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	S2I	D1720	SC21110									
S2D1740	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	183 16-Aug-20 A	17-Nov-20 A	18-Feb-23	18-Feb-23			S2D1750									
S2D1750	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21 18-Nov-20 A	24-Nov-20 A	18-Feb-23	18-Feb-23	S2I	D1740	S2D1760		1							
S2D1760	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	198 25-Nov-20 A	10-Jun-21 A	18-Feb-23	18-Feb-23	S2I	D1750	S2D1770									
S2D1770	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 24-May-21 A	11-Jun-21 A	18-Feb-23	18-Feb-23	S2I		S5SASP1000, SC21110									
Control and Mon	itoring 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	S2I	PD1780	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	S2I	D1800	SC21110									
Lifting Appliance	s	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	S2I	D1820	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	S2I	D1840	SC21110									
Building Services		357 02-Jul-20 A	11-Jun-21 A	22-May-22	16-Apr-25												
S2D1860	Submit & Accept BS Works Design & Dwgs for Sludge Dewatering Building	202 21-Nov-20 A	11-Jun-21 A	22-May-22	22-May-22			SC21110, S5S1260, S5S1010, S5S1120									
S2D1870	Submit & Accept BS Works Design & Dwgs for CHP Building	209 14-Nov-20 A	11-Jun-21 A	11-Feb-23	11-Feb-23	S2I	D1550	SC21110, S5S1120		ı							
S2D1880	Submit & Accept BS Works Design & Dwgs for Sludge Digester & Distribution Chamber	202 21-Nov-20 A	11-Jun-21 A	11-Feb-23	11-Feb-23			SC21110, S5S1120									
S2D1890	Submit & Accept BS Works Design & Dwgs for Workshop No. 2	344 02-Jul-20 A	11-Jun-21 A	03-Aug-22	03-Aug-22			SC21110, S5S1030, S5S1120									
S2D1900	Submit & Accept BS Works Design & Dwgs for Other Facilities	194 29-Nov-20 A	11-Jun-21 A	11-Feb-23	11-Feb-23			S2D1920, SC21110, S5S1120									
S2D1910	Submit & Accept BS Works Design & Dwgs for FS Installation	344 02-Jul-20 A	11-Jun-21 A	11-Feb-23	11-Feb-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	S2I	D1900	SC21110									
Miscellaneous		264 05-Oct-20 A	11-Jun-21 A	05-Jul-22	16-Apr-25												
S2D1930	Submit & Accept Design & Dwgs for DO System	179 14-Dec-20 A	11-Jun-21 A	03-Nov-22	03-Nov-22			S5DOUP1000, SC21110									
S2D1940	Submit & Accept Design & Dwgs for Sewage Pumping Station	224 30-Oct-20 A	11-Jun-21 A	13-Nov-22	13-Nov-22	S2I		S5SPSP1000, SC21110		•							
								3021110			<u>i i i i i</u>	<u> </u>	<u> </u>	<u> </u>			

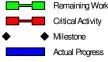
File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 20 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors							4 1 1 1 1				2025 2
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	<u> </u>	1-1-1-1-1		- - - -		1-1-1-1-1	- - 1 43 5	3/33111	<u> </u>	1144444444	23333333333
S2D1960	Submit & Accept Design & Dwgs for External Sludge Transfer Pumping System	209	14-Nov-20 A	11-Jun-21 A	29-Dec-22	29-Dec-22	:	S2P1200	S2D1970, SC21110					-						
S2D1970	Submit & Accept Design & Dwgs for THP Cooling Water Pumping Station	209	14-Nov-20 A	10-Jun-21 A	29-Dec-22	29-Dec-22		S2D1340, S2D1960, S2P1210	S5TCWP1000, SC21110					-						
S2D1980	Submit & Accept Design & Dwgs for Ferric Chloride Dosing System	209	14-Nov-20 A	11-Jun-21 A	30-Sep-22	30-Sep-22	!		S5FCDP1000, S5FCDP1010, SC21110											
S2D1990	Submit & Accept Design & Dwgs for Temporary Primary Sludge Pumping Facility	158	04-Jan-21 A	11-Jun-21 A	05-Jul-22	05-Jul-22	:	PL1020	S5ECHP1000, SC21110					-						
S2D2000	Submit & Accept Design & Dwgs for Gas Detection System	194	29-Nov-20 A	24-May-21 A	13-Nov-22	13-Nov-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 Wo	rks	334	02-Jul-21 A	21-Nov-22	31-Oct-21	16-Apr-25	877													
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-Nov-22*	31-May-22	31-May-22	-174	,												
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-Nov-22*	30-Apr-22	30-Apr-22	-205	;												
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-Nov-22*	31-Dec-21	31-Dec-21	-325	,												
S2D2080	Submit finalized pumps and associated motor and VSD calculations	294	02-Jul-21 A	21-Nov-22*	31-Dec-21	31-Dec-21	-325	,												
S2D2090	Submit finalized electrical loads to verify the rating of the switchgears, transformers and protective devices	294	02-Jul-21 A	21-Nov-22*	31-Dec-21	31-Dec-21	-325)												
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-Nov-22*	31-Dec-21	31-Dec-21	-325)												
S2D2120	Submit finalized layout and control wiring diagrams for switchboard, MCC, control panel, etc	294	02-Jul-21 A	21-Nov-22*	31-Jan-22	31-Jan-22	-294													
S2D2130	Submit finalized design submissions of the CHP system	294	02-Jul-21 A	31-Jan-22 A	16-Apr-25	16-Apr-25									1					
S2D2140	Submit finalized interlock devices for electrical equipment and system	303	02-Jul-21 A	21-Nov-22*	30-Apr-22	30-Apr-22	-205	1												
S2D2150	Submit finalized calculations for total harmonic distortion, electrical faults and touch voltage	303	02-Jul-21 A	21-Nov-22*	30-Apr-22	30-Apr-22	-205													
S2D2160	Submit finalized design calculations, drawings & material submissions for ELV systems	294	02-Jul-21 A	21-Nov-22*	31-Dec-21	31-Dec-21	-325													
S2D2170	Submit finalized design submissions of SCADA, PMS, CMMS, IDMS, UPS for FCS	294	02-Jul-21 A	21-Nov-22*	31-Dec-21	31-Dec-21	-325)												
S2D2180	Submit finalized configuration of SCADA/PLC system, CMMS & PMS	294	02-Jul-21 A	21-Nov-22*	31-Dec-21	31-Dec-21	-325	,												
S2D2190	Submit finalized PLC and MCC panel design	294	02-Jul-21 A	21-Nov-22*	28-Feb-22	28-Feb-22	-266)							: :					
S2D2200	Submit finalized design & philosophy of the process instrument	294	02-Jul-21 A	21-Nov-22*	31-Dec-21	31-Dec-21	-325	1												
S2D2210	Submit finalized Process Design Submission	152	02-Jul-21 A	21-Nov-22*	30-Nov-21	30-Nov-21	-356	i												
S2D2220	Submit finalized acoustic and noise calculations for all equipment	303	02-Jul-21 A	21-Nov-22*	30-Apr-22	30-Apr-22	-205	ı												
S2D2230	Submit finalized design of THP feeding system	122	02-Jul-21 A	21-Nov-22*	31-Oct-21	31-Oct-21	-386	i												
S2D2240	Submit finalized design of the centrifuge discharge system	152	02-Jul-21 A	21-Nov-22*	30-Nov-21	30-Nov-21	-356	i												
Section 3 - C	omplete Design, Construction & T&C for Sidestream Facilities	1949	20-Nov-19 A	21-Mar-25	16-Jul-22	16-Apr-25	26													
	File Name: DE/2018/03 RP R28 Remaining Work						C	ontract No	DE/2018/03	3						Date	Revis	sion .	Checked	Approved
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File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 21 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	9 2020 2021 2022 2023 2024 2025
Maior Subcontract	or / Supplier Procurement	633 20-Nov-19 A	06-Sep-21 A	01-Sep-22	16-Apr-25			
Design		320 20-Nov-19 A			16-Apr-25			
S3P1000	Procurement & PO for Deammonification Sidestream Treatment Facilities	200 20-Nov-19 A		· ·	01-Sep-22	CD1010,	S3D1000,	
331 1000	1 Tocurement & 1 O for Dearminonincation sucestical infratinent facilities	200 20-NOV-19A	03-3u11-20 A	01-3ep-22	01-3ep-22	PL1010	S3D1000, S3D1440	
S3P1010	E&M (Process) Designer Award	1 05-Jun-20 A	05-Jun-20 A	16-Apr-25	16-Apr-25			
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 Co	ontractor	327 05-Aug-20 A	06-Sep-21 A	01-Sep-22	01-Sep-22			
For Site Clearand	ce & Survey	36 05-Aug-20 A	12-Oct-20 A	01-Sep-22	01-Sep-22			
S3P1040	Submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14 05-Aug-20 A	20-Aug-20 A	01-Sep-22	01-Sep-22		S3P1050	
S3P1050	Review & Comment the Tender proprosal of Civil Contractor (Site Clearance & Survey)	14 21-Aug-20 A	01-Sep-20 A	01-Sep-22	01-Sep-22	S3P1040	S3P1060	
S3P1060	Re-submit Tender proprosal of Civil Contractor (Site Clearance & Survey)	14 02-Sep-20 A	02-Sep-20 A	01-Sep-22	01-Sep-22	S3P1050	S3P1070	
S3P1070	Review & Accept Tender proprosal of Civil Contractor (Site Clearance & Survey)	14 03-Sep-20 A				S3P1060	S3P1080	
S3P1080	Civil Contractor (Site Clearance & Survey) Award	1 07-Oct-20 A		·	01-Sep-22	S3P1070	S3P1090	
S3P1090	Mobilisation		12-Oct-20 A	·	01-Sep-22	S3P1080	S3C1010	
For Ground Inves	stigation	98 29-Aug-20 A	08-Dec-20 A	01-Sep-22	01-Sep-22			
S3P1100	Submit Tender proprosal of Civil Contractor (Ground Investigation)	14 29-Aug-20 A	29-Sep-20 A	01-Sep-22	01-Sep-22		S3P1110	
S3P1110	Review & Accept the Tender proprosal of Civil Contractor (Ground Investigation)	21 30-Sep-20 A	27-Oct-20 A	01-Sep-22	01-Sep-22	S3P1100	S3P1120	
S3P1120	Tender Invitation of Civil Contractor (Ground Investigation)	7 02-Nov-20 A	13-Nov-20 A	01-Sep-22	01-Sep-22	S3P1110	S3P1130	
S3P1130	Submission of Tender Report	7 14-Nov-20 A	18-Nov-20 A	01-Sep-22	01-Sep-22	S3P1120	S3P1140	
S3P1140	Review & Accept the Tender Report by PM	21 19-Nov-20 A	19-Nov-20 A	01-Sep-22	01-Sep-22	S3P1130	S3P1150	
S3P1150	Contract Preparation	3 20-Nov-20 A	23-Nov-20 A	01-Sep-22	01-Sep-22	S3P1140	S3P1160	
S3P1160	Civil Contractor (Ground Investigation) Award	1 24-Nov-20 A	24-Nov-20 A	01-Sep-22	01-Sep-22	S3P1150	S3P1170	
S3P1170	Mobilisation	7 25-Nov-20 A	08-Dec-20 A	01-Sep-22	01-Sep-22	S3P1160	S3C1020	
For Pre-drilling &	Post-drilling	116 26-Oct-20 A	21-Feb-21 A	01-Sep-22	01-Sep-22			
S3P1180	Submit Tender proprosal of Civil Contractor (Pre-drilling & Post-drilling)	74 26-Oct-20 A	06-Jan-21 A	01-Sep-22	01-Sep-22	S3D1300, S3D1240	S3P1190	
S3P1190	Review & Accept the Tender proprosal of Civil Contractor (Predrill & Proof drill)	21 07-Jan-21 A	27-Jan-21 A	01-Sep-22	01-Sep-22	S3P1180	S3P1200	
S3P1200	Tender Invitation of Civil Contractor (Pre-drilling & Post-drilling)	14 28-Jan-21 A	04-Feb-21 A	01-Sep-22	01-Sep-22	S3P1190	S3P1210	
S3P1210	Submission of Tender Report	4 05-Feb-21 A	10-Feb-21 A	01-Sep-22	01-Sep-22	S3P1200	S3P1220	
S3P1220	Review & Accept the Tender Report by PM	21 11-Feb-21 A	16-Feb-21 A	01-Sep-22	01-Sep-22	S3P1210	S3P1230	
S3P1230	Contract Preparation	3 17-Feb-21 A	17-Feb-21 A	01-Sep-22	01-Sep-22	S3P1220	S3P1240	
S3P1240	Civil Contractor (Pre-drilling & Post-drilling) Award	1 18-Feb-21 A	18-Feb-21 A	01-Sep-22	01-Sep-22	S3P1230	S3P1250	
S3P1250	Mobilisation	3 19-Feb-21 A	21-Feb-21 A	01-Sep-22	01-Sep-22	S3P1240	S3C1030	
For Piling		90 04-Jan-21 A	01-Apr-21 A	01-Sep-22	01-Sep-22			

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 22 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

tivity ID	Activity Name	Original Early Star Duration	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	9	2020	2021 J J J S J 	2022	2023	2024 J.J.A.J.J.J.	2025 2025
S3P1260	Submit Tender proprosal of Civil Contractor (Piling)	39 04-Jan-2	21 A 10-Feb-21 A	01-Sep-22	01-Sep-22		S3P1270				-1	<u> </u>	"	143933939339
S3P1270	Review & Accept the Tender proprosal of Civil Contractor (Piling)	25 11-Feb-2	21 A 12-Mar-21 A	01-Sep-22	01-Sep-22	S3P1260	S3P1280							
S3P1280	Tender Invitation of Civil Contractor (Pling)	14 12-Mar-2	21 A 19-Mar-21 A	01-Sep-22	01-Sep-22	S3P1270	S3P1290							
S3P1290	Submission of Tender Report	7 20-Mar-2	21 A 22-Mar-21 A	01-Sep-22	01-Sep-22	S3P1280	S3P1300							
S3P1300	Review & Accept the Tender Report by PM	21 23-Mar-2	21 A 23-Mar-21 A	01-Sep-22	01-Sep-22	S3P1290	S3P1310							
S3P1310	Contract Preparation	3 24-Mar-2	21 A 25-Mar-21 A	01-Sep-22	01-Sep-22	S3P1300	S3P1320							
S3P1320	Civil Contractor (Piling) Award	1 26-Mar-2	21 A 26-Mar-21 A	01-Sep-22	01-Sep-22	S3P1310	S3P1330							
S3P1330	Mobilisation	3 26-Mar-2	21 A 01-Apr-21 A	01-Sep-22	01-Sep-22	S3P1320	S3C1030			1				
For Main Civil Wo	orks	146 17-Mar-	21 A 06-Sep-21 A	01-Sep-22	01-Sep-22									
S3P1340	Submit Tender proprosal of Civil Contractor (Main Civil Works)	30 17-Mar-2	21 A 21-May-21 A	01-Sep-22	01-Sep-22		S3P1350							
S3P1350	Review & Accept the Tender proprosal of Civil Contractor (Main Civil Works)	42 22-May-	21 A 19-Jul-21 A	01-Sep-22	01-Sep-22	S3P1340	S3P1360							
S3P1360	Tender Invitation of Civil Contractor (Main Civil Works)	14 21-Jul-2	1 A 11-Aug-21 A	01-Sep-22	01-Sep-22	S3P1350	S3P1370			•				
S3P1370	Submission of Tender Report	1 12-Aug-	21 A 19-Aug-21 A	01-Sep-22	01-Sep-22	S3P1360	S3P1380			1				
S3P1380	Review & Accept the Tender Report by PM	6 20-Aug-	21 A 31-Aug-21 A	01-Sep-22	01-Sep-22	S3P1370	S3P1390			•				
S3P1390	Contract Preparation	1 01-Sep-	21 A 05-Sep-21 A	01-Sep-22	01-Sep-22	S3P1380	S3P1400							
S3P1400	Civil Contractor (Main Civil Works) Award	1 06-Sep-	21 A 06-Sep-21 A	01-Sep-22	01-Sep-22	S3P1390	S3D1360, S3C1070							
Design & Submissi	ion	922 07-Jun-2	20 A 21-Nov-22	16-Jul-22	16-Apr-25	877								
Architectural		922 07-Jun-2	20 A 21-Nov-22	16-Mar-23	17-Mar-23	116								
S3D1000	Prepare & Submit Building Layout Plan	60 07-Jun-2	20 A 21-Oct-20 A	16-Mar-23	16-Mar-23	CD1010, S3P1000	S3D1010, S3D1050, S3D1100							
S3D1010	Review & Comment on Buildingl Layout Plan by PM	67 22-Oct-2	0 A 17-Nov-20 A	16-Mar-23	16-Mar-23	S3D1000	S3D1020		•					
S3D1020	Revise & Re-submit Building Layout Plan	28 18-Nov-	20 A 24-Dec-20 A	16-Mar-23	16-Mar-23	S3D1010	S3D1030							
S3D1030	Review & Accept of Building Layout Plan by PM	214 01-Jan-2	21 A 16-Sep-21 A	16-Mar-23	16-Mar-23	S3D1020	S3D1090							
S3D1040	Coordination Meeting with DSD (Employer) for the Architectural Drawing	0	15-Nov-21 A	1	16-Mar-23		S3D1090			•				
S3D1050	Prepare & Submit Architectural Design / Drawings	60 17-Jun-2	20 A 21-Oct-20 A	16-Mar-23	16-Mar-23	S3D1000	S3D1060							
S3D1060	Review & Comment on Architectural Design / Drawings by PM	67 22-Oct-2	0 A 17-Nov-20 A	16-Mar-23	16-Mar-23	S3D1050	S3D1070		•					
S3D1070	Revise & Re-submit Architectural Design / Drawings	28 18-Nov-	20 A 24-Dec-20 A	16-Mar-23	16-Mar-23	S3D1060	S3D1080							
S3D1080	Review & Accept of Architectural Design / Drawings by PM	483 25-Dec-	20 A 21-Nov-22	16-Mar-23	17-Mar-23	116 S3D1070	S3D1090							
S3D1090	Review & Accept of Architectural Design / Drawings by DSD (incl. VCAB) & DAP of ArchSD	300 15-Nov-	21 A 21-Nov-22	16-Mar-23	17-Mar-23	116 S3D1080, S3D1130, S3D1030, S3D1040	S3C1140, S3P1490							
S3D1100	Prepare & Submit ABWF Works Drawings	68 03-Nov-	20 A 24-Dec-20 A	16-Mar-23	16-Mar-23	S3D1000	S3D1110		1					
S3D1110	Review & Comment on ABWF Works Drawings by PM	21 25-Dec-	20 A 29-Jan-21 A	16-Mar-23	16-Mar-23	S3D1100	S3D1120							
		i I			1			1 : :	1 1 1		: : : :		1 1 1 1	
S3D1120	Revise & Re-submit ABWF Works Drawings	41 30-Jan-2	21 A 11-Mar-21 A	16-Mar-23	16-Mar-23	S3D1110	S3D1130							

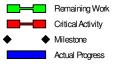
File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 23 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

vity ID	Activity Name	Original Early Sta Duration	rt Early Finish	Late Star	t Late Finish	Total Predecessor Float	s Successors	9	2020	2021 J J J J S J 	2022 J J J A J J	2023 J J J A J	ПЛП	2024 J J A J	2025
S3D1130	Review & Accept of ABWF Works Drawings by PM	406 12-Mar	21 A 21-Nov-22	16-Mar-23	3 17-Mar-23	3 116 S3D1120	S3C1140, S3D1090					<u> </u>		<u> चित्रवयययय</u>	1449444444
Civil / Structural		639 13-Jul-2	20 A 18-Feb-22	A 16-Jul-22	2 16-Apr-25	5									
S3D1140	Prepare & Submit Loading Plan to ICE	60 13-Jul-2	20 A 25-Sep-20	A 16-Jul-22	2 16-Jul-22	2	S3D1150		_						
S3D1150	Review & Comment on Loading Plan by ICE	14 26-Sep	-20 A 23-Oct-20	A 16-Jul-22	2 16-Jul-22	S3D1140	S3D1160		-						
S3D1160	Revise & Re-submit Loading Plan to ICE	175 24-Oct-	20 A 20-Apr-21	A 16-Jul-22	2 16-Jul-22	S3D1150	S3D1170		-						
S3D1170	Review & Accept of Loading Plan by ICE	7 21-Apr-	21 A 26-Apr-21	A 16-Jul-22	2 16-Jul-22	S3D1160	S3D1180	-		ı					
S3D1180	Prepare & Submit Loading Plan to PM	7 27-Apr	21 A 27-Apr-21	A 16-Jul-22	2 16-Jul-22	S3D1170	S3D1190			l li					
S3D1190	Review & Accept of Loading Plan by PM & DSD (incl. BCM)	359 28-Apr-	21 A 18-Feb-22	A 16-Jul-22	2 16-Jul-22	2 S3D1180	S3C1090	-			_				
S3D1200	Prepare & Submit GI Plan	60 13-Jul-2	20 A 26-Aug-20	A 01-Sep-22	2 01-Sep-22	2	S3D1210		_						
S3D1210	Review & Comment on Gl Plan by PM		-20 A 10-Sep-20		2 01-Sep-22		S3D1220								
S3D1220	Revise & Re-submit GI Plan		20 A 28-Sep-20		2 01-Sep-22		S3D1230								
S3D1230	Review & Accept of GI Plan by PM				·		S3C1020								
			-20 A 02-Nov-20		2 01-Sep-22										
S3D1240	Prepare & Submit Foundation Design / Drawings to ICE & PM	60 20-Aug	-20 A 09-Oct-20	A 01-Sep-22	2 01-Sep-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	5 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	5 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	5 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	5 16-Apr-25	S3D1270	S3D1290			1					
S3D1290	Review & Accept of Foundation Design / Drawings by DSD (incl. BCM)	45 06-Mar	21 A 26-Mar-21	A 16-Apr-25	5 16-Apr-25	S3D1280									
S3D1300	Prepare & Submit Substructure / Superstructure Design / Drawings to ICE & PM	25 10-Oct-	20 A 05-Nov-20	A 01-Sep-22	2 01-Sep-22	S3D1240	S3D1310,								
S3D1310	Review & Comment on Substructure / Superstructure Design / Drawings by ICE & PM	55 06-Nov	-20 A 30-Dec-20	A 01-Sep-22	2 01-Sep-22	S3D1300	S3P1180 S3D1320		•	•					
S3D1320	Revise & Re-submit Substructure / Superstructure Design / Drawings to ICE & PM	72 31-Dec	-20 A 26-Apr-21	A 01-Sep-22	2 01-Sep-22	2 S3D1310	S3D1330								
S3D1330	Review & Accept of Substructure / Superstructure Design / Drawings by ICE & PM	271 27-Apr-	21 A 18-Feb-22	A 01-Sep-22	2 01-Sep-22	S3D1320	S3D1340	-			_				
S3D1340	Prepare & Submit Substructure / Superstructure Design / Drawings to DSD (incl. BCM)	2 13-Dec	-21 A 23-Dec-21	A 01-Sep-22	2 01-Sep-22	S3D1330	S3D1350								
S3D1350	Review & Accept of Substructure / Superstructure Design / Drawings by DSD (incl. BCM)		-21 A 18-Feb-22		01-Sep-22		S3C1100								
ELS	. To the an absence can all all and a supercardance Design, D. a.m. go s, Deb (mail Dem)		-21 A 26-Apr-22		2 01-Sep-22		3001100								
S3D1360	Prepare & Submit ELS Plan to ICE		-21 A 20-Oct-21		2 01-Sep-22		S3D1370								
S3D1370	Review & Accept of ELS Plan by ICE		21 A 18-Nov-21		01-Sep-22		S3D1380	-							
S3D1380	Prepare & Submit ELS Plan to PM		-21 A 19-Nov-21		2 01-Sep-22		S3D1390								
S3D1380	Review & Accept of ELS Plan by PM						S3C1080			<u> </u>					
			-21 A 26-Apr-22		2 01-Sep-22		3301000			_					
Process Design S3D1400	Prepare & Submit E&M Works (Process) Design Drawings	454 06-Jul-2			5 16-Apr-25 5 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	5 16-Apr-25	S3D1400	S3D1420								
	File Name: DE/2018/03 RP R28					Combined	No DE /2010/				Date	Revis	sion	Checked	Approved
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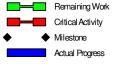
Layout: DE1803 RP (Nov 2022) - WBS
Page 24 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
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30-Nov-22	Rev.28	LT	KM

y ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total I Float	Predecessors	Successors	9	2020	1111	2021	2022 J J A J			2024	2025
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	<u> </u>	<u>- - - - - </u>	- - -		<u>- - - - 1 2 3 </u>	1537331111	1111111	111232322	1221233333333
S3D1430	Review & Accept of E&M Works (Process) Design Drawings by PM	278 27-Mar-21 A	20 Oct 21 A	16-Apr-25	16-Apr-25		S3D1420										
53D1430	Review & Accept of Eavi Works (Process) Design Drawings by Pivi	2/8 2/-War-21 A	29-001-21 A	16-Apr-25	16-Apr-25		53D1420										
E&M Design		715 07-Jun-20 A	21-Nov-22	01-Sep-22	16-Apr-25	877											
S3D1440	Prepare & Submit General Arrangement Drawings	298 07-Jun-20 A	31-Mar-21 A	01-Sep-22	01-Sep-22	:	S3P1000	S3D1450, S3C1080			<u> </u>	-					
S3D1450	Review & Comment on General Arrangement Drawings by PM	37 01-Apr-21 A	07-May-21 A	16-Apr-25	16-Apr-25		S3D1440	S3D1460				•					
S3D1460	Revise & Re-submit General Arrangement Drawings	247 08-May-21 A	06-Jan-22 A	16-Apr-25	16-Apr-25		S3D1450	S3D1470									
S3D1470	Review & Accept of General Arrangement Drawings by PM	105 07-Jan-22 A	21-Nov-22	16-Apr-25		977 (S2D1460					<u></u>					
5301470	neview & Accept of General Arrangement Drawings by Fivi	105 07-Jan-22 A	21-INOV-22	16-Apr-25	16-Api-25	0//	SSD 1460										
BS		598 03-Jul-20 A	21-Nov-22	15-Jan-23	16-Jan-23	56											
S3D1480	Prepare & Submit BS Works Design & Dwgs for Sidestream Treatment Facilities	264 03-Jul-20 A	10-Dec-20 A	15-Jan-23	15-Jan-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	15-Jan-23	15-Jan-23		S3D1480	S3D1500			÷						
S3D1500	Revise & Re-submit BS Works Design & Dwgs for Sidestream Treatment Facilities	102 05-Jan-21 A	31-Mar-21 A	15-Jan-23	15-Jan-23		S3D1490	S3D1510			_						
S3D1510	Review & Accept of BS Works Design & Dwgs for Sidestream Treatment Facilities by PM	386 01-Apr-21 A	21-Nov-22	15-Jan-23	16-Jan-23	56	S3D1500	S3S1020									
	,	<u>'</u>					0001000										
S3D1520	Submission & Submit FS Works Design & Dwgs for Sidestream Treatment Facilities	182 03-Aug-20 A	10-Dec-20 A	15-Jan-23	15-Jan-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	15-Jan-23	15-Jan-23		S3D1520	S3D1540			<u></u>						
S3D1540	Revise & Re-submit FS Works Design & Dwgs for Sidestream Treatment Facilities	66 20-Jan-21 A	19-Mar-21 A	15-Jan-23	15-Jan-23	;	S3D1530	S3D1550			•	-					
S3D1550	Review & Accept of FS Works Design & Dwgs for Sidestream Treatment Facilities by PM	398 20-Mar-21 A	21-Nov-22	15-Jan-23	16-Jan-23	56 \$	S3D1540	S3S1020									
Major Plant & Mat	erials Procurement	891 01-Feb-21 A	20 Aug 22	16 Jul 22	16-May-23	107											
	enais Floculement																
Civil & Structure		378 01-Feb-21 A	·		01-Sep-22												
S3P1410	Procurement, Manufacture & Delivery of Piling	60 01-Feb-21 A	14-Apr-21 A	01-Sep-22	01-Sep-22			S3C1040									
S3P1420	Procurement, Manufacture & Delivery of Concrete Mix	15 21-Mar-22 A	19-Apr-22 A	16-Jul-22	16-Jul-22			S3C1090				•					
S3P1430	Procurement, Manufacture & Delivery of Steel Reinforcement	15 11-Mar-22 A	25-Mar-22 A	16-Jul-22	16-Jul-22			S3C1090				•					
S3P1440	Procurement, Manufacture & Delivery of Metal Works Material	80 09-May-21 A	07-Jul-21 A	01-Sep-22	01-Sep-22			S3C1080									
ADME		120 03-May-23		16 lan 00	16-May-23	107											
ABWF			30-Aug-23		1												
S3P1450	Procurement, Manufacture & Delivery of Water Proofing Material	60 18-May-23	16-Jul-23	31-Jan-23				S3C1130						-			
S3P1460	Procurement, Manufacture & Delivery of ABWF Works Material	120 03-May-23	30-Aug-23		16-May-23			S3C1140									
E&M Process		354 20-May-22 A			20-Apr-23												
S3P1471	Procurement of Diffusers for Phospaq and Anammox Internals	93 21-Aug-22 A	21-Nov-22	27-Aug-22	27-Aug-22	-86		S3P1472									
S3P1472	Manufacture & Delivery of Diffusers for Phospaq and Anammox Internals	215 12-Dec-22	14-Jul-23	17-Sep-22	19-Apr-23	-86	S3P1471	S3C2280, S3C2290									
S3P1473	Procurement of Heat Exchanger (Plate type)	40 05-Dec-22*	13-Jan-23	25-Aug-22	04-Oct-22	-102		S3P1474									
S3P1474	Manufacture & Delivery of Heat Exchanger (Plate type)	140 28-Jan-23	16-Jun-23	18-Oct-22			S3P1473	S3C2250						<u> </u>			
S3P1475	Procurement of Mixer	22 11-Nov-22 A	21-Nov-22	08-Nov-22	08-Nov-22			S3P1476					•				
000/:=-				22.1			0004:	00000						<u></u> ļļ.			
S3P1476	Manufacture & Delivery of Mixer	140 06-Dec-22	24-Apr-23	23-Nov-22			S3P1475	S3C2145	_					7			
COD4 477	Procurement of Ancillary Air Blower	96 21-Aug-22 A	24-Nov-22	28-Oct-22	31-Oct-22	-24		S3P1478									
S3P1477		149 09-Dec-22	06-May-23	15-Nov-22	12-Apr-23	-24	S3P1477	S3C2270						<u> </u>			
	Manufacture & Delivery of Ancillary air blower	143 03-066-27								1 1 1	- 1		: : :	1 1 1	1 1	1 1	
S3P1477 S3P1478 S3P1479	Manufacture & Delivery of Ancillary air blower Procurement of Buffer tank Lifting Pump	38 21-Aug-22 A		14-Nov-22	14-Nov-22			S3P1481									
S3P1478	Procurement of Buffer tank Lifting Pump			14-Nov-22	14-Nov-22			S3P1481									
S3P1478	·		27-Sep-22 A		14-Nov-22 20-Jan-23		S3P1479	S3P1481 S3C2070									

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 25 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

Activity ID	Activity Name	Original Early Start	Early Finish	Late Start	Late Finish Total Predecessors	Successors 9	2020 20		2023	2024 J J A J	2025 26
C0D4500	Dream was provided Assessment food as well and Challes Disabeties as well		07 Can 00 A	01 Nav 00		COD1510			73311111111	112222222	23333333333
S3P1500	Procurement of Anammox feed pump and Sludge Discharge pump	38 21-Aug-2	22 A 27-Sep-22 A	21-Nov-22	21-Nov-22	S3P1510					
S3P1510	Manufacture & Delivery of Anammox feed pump and Anammox Sludge pump	120 29-Sep-2	2 A 26-Jan-23	21-Nov-22	27-Jan-23 1 S3P1500	S3C2090, S3C2110		-			
S3P1520	Procurement of Metering Pump	55 21-Aug-2	2 A 14-Oct-22 A	21-Nov-22	21-Nov-22	S3P1530		•			
S3P1530	Manufacture & Delivery of Metering Pump	120 31-Oct-2	2A 27-Feb-23	21-Nov-22	27-Feb-23 0 S3P1520	S3C2100		-			
S3P1540	Procurement of 2nd Sludge Pump	30 21-Aug-2	2 A 19-Sep-22 A	16-Dec-22	16-Dec-22	S3P1550					
S3P1550	Manufacture & Delivery of 2nd Sludge Pump	120 29-Sep-2	2 A 26-Jan-23	16-Dec-22	20-Feb-23 25 S3P1540	S3C2080					
S3P1560	Procurement of Struvite Pump	38 21-Aug-2	27-Sep-22 A	30-Dec-22	30-Dec-22	S3P1570					
S3P1570	Manufacture & Delivery of Struvite Pump	120 29-Sep-2	2 A 26-Jan-23	30-Dec-22	06-Mar-23 39 S3P1560	S3C2120		-			
S3P1580	Procurement of Primary Sludge Pump	38 21-Aug-2	27-Sep-22 A	06-Jan-23	06-Jan-23	S3P1590		-			
S3P1590	Manufacture & Delivery of Primary Sludge Pump	120 29-Sep-2	2 A 26-Jan-23	06-Jan-23	13-Mar-23 46 S3P1580	S3C2140		-			
S3P1600	Procurement of Drum Thickener Feed Pump	38 21-Aug-2	27-Sep-22 A	05-Dec-22	05-Dec-22	S3P1610					
S3P1610	Manufacture & Delivery of Drum Thickener Feed Pump	120 29-Sep-2	22 A 26-Jan-23	05-Dec-22	10-Feb-23 15 S3P1600	S3C2130					
S3P1611	Procurement of FRP Tanks (NaOH, Micro-Nutrient, Anti-foamer and Polymer)	97 21-Aug-2	22 A 25-Nov-22 A	04-Oct-22	04-Oct-22	S3P1612					
S3P1612	Manufacture & Delivery of FRP Tanks (NaOH, Micro-Nutrient, Anti-foamer and Polymer)	140 05-Dec-2	23-Apr-23	18-Oct-22	07-Mar-23 -48 S3P1611	S3C2210		_			
S3P1613	Procurement of NaOH Dosing Pump	55 21-Aug-2	2 A 14-Oct-22 A	27-Nov-22	27-Nov-22	S3P1614		-			
S3P1614	Manufacture & Delivery of NaOH Dosing pump	120 31-Oct-2	2A 27-Feb-23	27-Nov-22	05-Mar-23 6 S3P1613	S3C2200		-			
S3P1624	Procurement of Micro-Nutrient Dosing Pump	55 21-Aug-2	2 A 14-Oct-22 A	27-Nov-22	27-Nov-22	S3P1634		-			
S3P1634	Manufacture & Delivery of Micro-Nutrient Dosing Pump	120 31-Oct-2	2A 27-Feb-23	27-Nov-22	05-Mar-23 6 S3P1624	S3C2200		—			
S3P1644	Procurement of Anti-foamer Dosing Pump	55 21-Aug-2	2 A 14-Oct-22 A	27-Nov-22	27-Nov-22	S3P1654		•			
S3P1654	Manufacture & Delivery of Anti-foamer Dosing Pump	120 31-Oct-2	2A 27-Feb-23	27-Nov-22	05-Mar-23 6 S3P1644	S3C2200		—			
S3P1664	Procurement of Polymer Dosing Pump	38 21-Aug-2	27-Sep-22 A	20-Nov-22	20-Nov-22	S3P1674					
S3P1674	Manufacture & Delivery of Polymer Dosing Pump	106 21-Nov-2	2 06-Mar-23	20-Nov-22	05-Mar-23 -1 S3P1664	S3C2200					
S3P1684	Procurement of DOU no.4	97 21-Aug-2	22 A 25-Nov-22	07-Sep-22	11-Sep-22 -75	S3P1694					
S3P1694	Manufacture & Delivery of DOU no.4	182 10-Dec-2		<u> </u>	26-Mar-23 -75 S3P1684	S3C2230			-		
S3P1695	Procurement of Electric Calorifier	101 01-Nov-2		11-Aug-22		S3P1696					
S3P1696	Manufacture & Delivery of Electric Calorifier	140 04-Feb-2		25-Oct-22		S3C2271			-		
S3P1699	Procurement of PE pipework	98 15-Oct-2	2 A 31-Dec-22	08-Sep-22	19-Oct-22 -74	S3P1700		.			
S3P1700	Manufacture & Delivery of PE pipework	140 15-Jan-2	3 03-Jun-23	02-Nov-22	22-Mar-23 -74 S3P1699	S3C2251, S3C2300, S3C2275					
S3P1701	Procurement of SS pipe, Ductile Iron Pipes and Fittings	51 01-Dec-2	2A 31-Dec-22	08-Sep-22	19-Oct-22 -74	S3P1702					
S3P1702	Manufacture & Delivery of SS pipe, Ductile Iron Pipes and Fittings	140 15-Jan-2	3 03-Jun-23	02-Nov-22	22-Mar-23 -74 S3P1701	S3C22300, S3C2251, S3C2275					
S3P1703	Procurement of SCADA System	153 21-Aug-2	2 A 31-Dec-22	03-Sep-22	14-Oct-22 -79	S3P1704					
S3P1704	Manufacture & Delivery of SCADA System	140 15-Jan-2	3 03-Jun-23	28-Oct-22	17-Mar-23 -79 S3P1703	B1365		-	_		
S3P1715	Procurement of Local control panel parts for Drum Sludge Thickener	102 21-Aug-2	2 A 30-Nov-22	29-Oct-22	07-Nov-22 -23	S3P1725		-			
S3P1725	Manufacture & Delivery of Local control panel parts for Drum Sludge Thickener	140 15-Dec-2	2 03-May-23	22-Nov-22	10-Apr-23 -23 S3P1715	B1363			1		
	File Name: DE/2018/03 RP R28				Contract No	o. DE/2018/03		Date	Revision	Checked	Approved
	Layout: DE1803 RP (Nov 2022) - Critical Activity			Shek \	Contract No Wu Hui Effluent Polishi	•	orks Stage 1	31-Jul-22	Rev.24	LT	KM

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 26 of 58 Remaining Work
Critical Activity

Milestone
Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Bev28	IT	KM

		Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	9
S3P1735	Procurement of uPVC pipe and GRP Pipe	101 21-Aug-22 A	31-Dec-22	22-Sep-22	02-Nov-22	-60	S3P1745	<u> </u>
	· · ·	-		·				
S3P1745	Manufacture & Delivery of uPVC pipe and GRP Pipe	140 01-Jan-23	20-May-23	02-Nov-22	22-Mar-23	-60 S3P1735	S3C2251, S3C2275, S3C2300	
S3P1755	Procurement of Flushing pump and Hot water pump	97 24-Oct-22 A	24-Dec-22	07-Sep-22	10-Oct-22	-75	S3P1765	
S3P1765	Manufacture & Delivery of Flushing pump and Hot water pump	140 08-Jan-23	27-May-23	25-Oct-22	13-Mar-23	-75 S3P1755	S3C2271	
S3P1766	Procurement of EM Flowmeter	86 21-Aug-22 A	14-Nov-22 A	22-Dec-22	22-Dec-22		S3P1767	
S3P1767	Manufacture & Delivery of EM Flowmeter	112 29-Nov-22	20-Mar-23	30-Dec-22	20-Apr-23	31 S3P1766	B1363	
S3P1768	Procurement of Instrument	111 21-Aug-22 A	26-Nov-22	10-Dec-22	15-Dec-22	19	S3P1769	
S3P1769	Manufacture & Delivery of Instrument	112 11-Dec-22	01-Apr-23	30-Dec-22	20-Apr-23	19 S3P1768	B1363	
S3P1772	Procurement of Lifting Applicance	14 23-Aug-22 A	16-Sep-22 A	23-Sep-22	23-Sep-22		S3P1773	
S3P1773	Manufacture & Delivery of Lifting Applicance	140 30-Nov-22*	18-Apr-23	23-Sep-22	10-Feb-23	-68 S3P1772	\$3C2000, \$3C2010, \$3C2020, \$3C2030, \$3C2040, \$3C2050	
S3P1774	Procurement of Air Blower System	36 04-Jul-22 A	08-Aug-22 A	29-Nov-22	29-Nov-22		S3P1775	
S3P1775	Manufacture & Delivery of Air Blower System	222 09-Aug-22 A	18-Mar-23	29-Nov-22	26-Mar-23	8 S3P1774	S3C2260	
S3P1778	Procurement of PAM dosing pump	38 21-Aug-22 A	27-Sep-22 A	29-Dec-22	29-Dec-22		S3P1779	
S3P1779	Manufacture & Delivery of PAM dosing pump	120 29-Sep-22 A	26-Jan-23	29-Dec-22	05-Mar-23	38 S3P1778	S3C2200	
S3P1780	Manufacture & Delivery of Primary and Secondary Clarifiers for Phospaq	257 20-May-22 A	31-Jan-23	14-Jan-23	27-Mar-23	55	S3C2160, S3C2170	
	Manufacture & Delivery of Tilted Plates for Phospaq and Anammox internals	235 11-Jun-22 A	31-Jan-23	17-Jan-23	29-Mar-23	57	S3C2180, S3C2190	
S3P1782	Manufacture & Delivery of Drum sludge thickener	210 31-May-22 A	26-Dec-22	30-Jan-23	07-Mar-23	71	S3C2215	
BS		378 12-Aug-22 A	24-Aug-23	06-Aug-22	09-May-23	-107		
S3P1480	Procurement, Manufacture & Delivery of BS Works Material	120 27-Apr-23	24-Aug-23	10-Jan-23	09-May-23	-107	S3T1080, S3C1250, S3T1020, S3T1000	
S3P1482	Procurement of MVAC System	76 21-Nov-22	04-Feb-23	02-Sep-22	17-Nov-22	-80	S3P1483	-
S3P1483	Manufacture & Delivery of MVAC System	90 05-Feb-23	05-May-23	17-Nov-22	15-Feb-23	-80 S3P1482	B1353, B1354, B1355	
S3P1770	Procurement of Low Voltage Switchboard and Accessories	80 01-Nov-22 A	19-Jan-23	04-Sep-22	02-Nov-22	-78	S3P1771	
	Manufacture & Delivery of Low Voltage Switchboard and Accessories		20-Jun-23			-97 S3P1770	B1374	
S3P1783	Procurement of Transformer	75 12-Aug-22 A	25-Jan-23	06-Aug-22	10-Oct-22	-107	S3P1784	
	Manufacture & Delivery of Transformer	136 26-Jan-23	10-Jun-23			-107 S3P1783	B1373	
Fitting-out		60 22-Nov-22	20-Jan-23	17-Mar-23	16-May-23	116		
	Procurement, Manufacture & Delivery of Fit-out Works Material		20-Jan-23			116 S3D1090	S3C1140	
	Tilting & Utility Monitoring	1184 12-Dec-20 A		29-Dec-23				
S3C1000	Ground Settlement, Tilting & Utility Monitoring	1184 12-Dec-20 A	09-Mar-24	29-Dec-23	16-Apr-25	403 S3C1010		
Civil Works Construc	ction	1613 30-Sep-20 A	21-Mar-25	16-Jul-22	10-May-24	-316		
S3C1010	Site Clearance & Survey	50 30-Sep-20 A	12-Dec-20 A	01-Sep-22	01-Sep-22	S3D1240, AD1140, S3P1090	S3C1020, S3C1000	

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 27 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Early Start	Early Finish	Late Start	Late Finish		Predecessors	Successors	9	2020	2021	20	22	2023	2	2024	2025	26
		Duration				Float			J 3 J J	J J A	J J J S	J J J		J J A 5 5 7 3 3 1 1 1 1	1 1 1 1 1	J J A J J J J Z Z Z Z Z Z Z Z Z Z Z Z Z	2333333	3333
S3C1020	Ground Investigation	65 12-Dec-20 A	18-Jan-21 A	01-Sep-22	01-Sep-22		AD1140, S3C1010, S3P1170,	S3C1030										
C0C1000	Des dellines Wester	100 00 Feb 01 A	10 May 01 A	01 Com 00	01 Can 00		S3D1230	0001040										
S3C1030	Pre-drilling Works	180 22-Feb-21 A	19-Mar-21 A	01-Sep-22	01-Sep-22		S3C1020, S3P1250, S3P1330	S3C1040										
S3C1040	Minor Civil Works & Preperation Works for Piling	31 20-Mar-21 A	20-May-21 A	01-Sep-22	01-Sep-22		S3C1030, S3P1410	S3C1050	1		-							
S3C1050	Piling Works (Impacted by Inclement Weather)	69 21-May-21 A	21-Aug-21 A	01-Sep-22	01-Sep-22		S3C1040	S3C1060			-							
S3C1060	Post-drilling, Proof test & remaining works (Impacted by Inclement Weather)	23 22-Aug-21 A	17-Sep-21 A	01-Sep-22	01-Sep-22		S3C1050	S3C1080, S3C1070			•							
S3C1070	Site Set-up / Mobilisation (Impacted by Inclement Weather)	51 18-Sep-21 A	20-Nov-21 A	01-Sep-22	01-Sep-22		S3C1060, S3P1400	S3C1080										
S3C1080	Excavation / ELS (Impacted by Inclement Weather)	157 24-Nov-21 A	31-Aug-22 A	01-Sep-22	01-Sep-22		S3D1440, S3P1440, S3D1390, S3C1060, S3C1070	S3C1090										
S3C1090	Pile Caps installation & Basement Slab	89 01-Sep-22 A	06-Jan-23	16-Jul-22	01-Sep-22	-128	S3C1080, S3P1420, S3P1430, S3D1190	S3C1100, S3C1130										
S3C1100	Construction of Basement up to G/F Slab	137 07-Jan-23	23-May-23	01-Sep-22	16-Jan-23	-128	S3C1090, S3D1350, S3S1010	S3C1110, S3C1130, S3C2070, B1356, B1359										
S3C1110	Construction of G/F up to 1/F Slab	83 27-Mar-23	17-Jun-23	19-Nov-22	10-Feb-23	-128	S3C1100	S3C1120, S3C1130, S3C1999						-				
S3C1120	Construction of 1/F up to Roof	58 20-May-23	16-Jul-23	15-Jan-23	13-Mar-23	-125	S3C1110	S3C1130, S3C2049										
S3C1130	Waterproofing	45 17-Jul-23	30-Aug-23	01-Apr-23	16-May-23	-107	S3P1450, S3C1120, S3C1090, S3C1100, S3C1110	S3C1140										
S3C1140	External & Internal Finishes - 1st Fix (Blockwork, Plastering, Wet Trade)	90 31-Aug-23	28-Nov-23	16-May-23	14-Aug-23	-107	' S3C1130, S3P1460, S3D1090, S3D1130, S3P1490	S3C1150, S3C1160	_					-	ı			
S3C1150	External & Internal Finishes - 2nd Fix (Ceiling / Wall / Floor Finishing, Door)	90 29-Nov-23	26-Feb-24	14-Aug-23	12-Nov-23	-107	S3C1140	SC31110, S3S1170, S3C1160, PL1190						I				
S3C1160	Landscaping Works	120 22-Nov-24	21-Mar-25	11-Jan-24	10-May-24	-316	S3C1140, S3C1150	SC31110								-	_	
E&M Installation		151 24-May-23	21-Oct-23	16-Jan-23	13-Jan-24	84												
Mechanical Inst	tallations	122 24-May-23	22-Sep-23	20-Jan-23	29-Oct-23	37												
Basement		122 24-May-23	22-Sep-23	20-Jan-23	25-May-23	-120)											
S3C2070	Installation of Buffer Tank Lifting pumps (3 nos.)	7 24-May-23	30-May-23	20-Jan-23	27-Jan-23	-124	S3P1481, S3C1100	S3C2090, S3C2300, S3T1032, S3C2080						1				
S3C2080	Installation of Secondary Clarifier Sludge discharge pumps (3 nos.)	7 24-May-23	30-May-23	21-Feb-23	27-Feb-23	-92	S3P1550, S3C2070	S3C2100, S3C2300, S3T1032						1				
S3C2090	Installation of Anammox Feed pumps (3 nos.)	7 31-May-23	06-Jun-23	27-Jan-23	03-Feb-23	-124	S3C2070, S3P1510	S3C2110, S3C2300, S3T1032										
S3C2100	Installation of Metering Pumps (2 nos.)	7 31-May-23	06-Jun-23	28-Feb-23	06-Mar-23	-92	S3C2080, S3P1530	S3C2120, S3C2300, S3T1032						1				
	File Name: DE/2018/03 RP R28							DE /2040 /00					Date	Revisio	n	Checked	Appro	ved
	Layout: DE1803 RP (Nov 2022) -			Ch ale 1	M., U.: F4			DE/2018/03 g Plant - Mai		taga 1			-Jul-22	Rev.24	LT		KM	
		I		Snek V	vu nui El	iiiue	IIL PUIISNINI	ı rıaiil - ividl	II VVOIKS S	ıakt I		124	-Aug-22	Rov25	li T		II/M	

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 28 of 58 Hemaning Work
Critical Activity

Milestone
Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ty ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020 202	2022	2023	2024	2025 J J J A
S3C2110	Installation of Anammox Sludge discharge pumps (2 nos.)	7 07-Jun-23	13-Jun-23	03-Feb-23	10-Feb-23	-124	S3C2090, S3P1510	S3C2130, S3C2300,	111111111111111111111111111111111111111	123	53733111111111 I	111222222	2 2 3 3 3 3 3 3 3
S3C2120	Installation of Struvite Pumps (3 nos.)	7 07-Jun-23	13-Jun-23	07-Mar-23	13-Mar-23	-92	S3C2100, S3P1570	S3T1032 S3C2140, S3C2300, S3T1032			•		
S3C2130	Installation of Thickener feed pumps (2 nos.)	7 14-Jun-23	20-Jun-23	10-Feb-23	17-Feb-23	-124	S3C2110, S3P1610	S3C2142, S3C2300, S3T1032			0		
S3C2140	Installation of Primary Clarifier sludge discharge pump (3 nos.)	7 14-Jun-23	20-Jun-23	14-Mar-23	20-Mar-23	-92	S3C2120, S3P1590	S3C2300, S3T1032			1		
S3C2142	Installation of Flushing Pump (2 nos.)	7 21-Jun-23	27-Jun-23	17-Feb-23	24-Feb-23	-124	S3C2130	S3C2300, S3C2215, S3T1032			II.		
S3C2145	Installation of Mixer for Thickened Sludge Tank, Sludge Mlxing Tank, Anammox Effluent Chamber and Filtrate Buffer Tank	14 02-Aug-23	15-Aug-23	12-Apr-23	25-Apr-23	-112	S3P1476, S3C2020	S3C2300, S3T1042			0		
S3C2170	Installation of Secondary Clarifiers No.1 and 2	21 02-Aug-23	22-Aug-23	30-Mar-23	19-Apr-23	-125	S3P1780, S3C2010	S3C2190, S3C2300, S3T1036					
S3C2180	Installation of Tilted Plates for Phospaq No.1 and 2	21 02-Aug-23	22-Aug-23	30-Mar-23	19-Apr-23	-125	S3C2160, S3P1781	S3C2300, S3C2280, S3T1037					
S3C2190	Installation of Tilted Plates for Anammox No. 1 and 2	21 02-Aug-23	22-Aug-23	30-Mar-23	19-Apr-23	-125	S3C2170, S3P1781, S3C2030, S3C2040	S3C2300, S3C2290, S3T1038					
S3C2280	Installation of Diffusers and pipework for Phospaq	21 23-Aug-23	12-Sep-23	20-Apr-23	10-May-23	-125	S3P1472, S3C2180	S3C2300, S3T1037			•		
S3C2290	Installation of Diffusers and pipework for Anammox	21 23-Aug-23	12-Sep-23	20-Apr-23	10-May-23	-125	S3C2270, S3P1472, S3C2190	S3C2300, S3T1038					
S3C2300	Installation of Pipeworks, Associate Valves and Fittings	30 24-Aug-23	22-Sep-23	26-Apr-23	25-May-23	-120	\$3C2070, \$3C2080, \$3C2090, \$3C2100, \$3C2110, \$3C2120, \$3C2130, \$3C2142, \$3C2145, \$3C2145, \$3C2170, \$3C2180, \$3C2280, \$3C2280, \$3C2290, \$3P1700, \$3P1702, \$3P1745	S3T1031					
G/F		90 18-Jun-23	15-Sep-23	10-Feb-23	29-Oct-23	44							
S3C1999	Access to Sidestream Treatment Facilities (G/F)	0 18-Jun-23		10-Feb-23		-128	S3C1110	\$3C2200, \$3C2000, \$3C2210, \$3C2215, \$3C2250, \$3C2251, \$3C2255					
S3C2000	Installation of Lifting Appliance (LA-01)	45 18-Jun-23	01-Aug-23	10-Feb-23	27-Mar-23	-128	S3P1773, S3C1999	S3C2010, S3C2160			-		
S3C2010	Installation of Lifting Appliance (LA-02)	45 18-Jun-23	01-Aug-23	13-Feb-23	29-Mar-23	-125	S3C2000, S3P1773	S3C2170, S3C2020, S3C2040			-		
S3C2020	Installation of Lifting Appliance (LA-03)	45 18-Jun-23	01-Aug-23	13-Feb-23	29-Mar-23	-125	S3P1773, S3C2010	S3C2030, S3C2145			-		
S3C2030	Installation of Lifting Appliance (LA-04)	45 02-Aug-23	15-Sep-23	30-Mar-23	13-May-23	-125	S3P1773, S3C2020	S3C2190			-		
S3C2040	Installation of Lifting Appliance (LA-05)	45 02-Aug-23	15-Sep-23	30-Mar-23	13-May-23	-125	S3P1773, S3C2010	S3C2190			-		
	File Name: DE/2018/03 RP R28					<u> </u>	ntract No	DE/2018/0	 03	Date	Revision	Checked	Approv
	Layout: DE1803 RP (Nov 2022) - Critical Activity			Shek \	Nu Hui F				lain Works Stage 1	31-Jul-22 31-Aug-22	Rev.24 Rev.25	LT	KM KM

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 29 of 58 Remaining Work
Critical Activity

Milestone
Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	9 2020				2024 J J A 1 1 2 2 2 2 2 2 2 2	2025
S3C2160	Installation of Primary Clarifiers No.1 and 2	15 02-Aug-23	16-Aug-23	27-Mar-23	11-Apr-23	-128 S3P1780, S3C2000	S3C2180, S3C2251, S3T1035					111144444	111111111111111111111111111111111111111
S3C2200	Installation of NaOH Dosing Pumps, Micro-Nutrient Dosing Pumps, Defoamer Dosing Pumps and PAM Dosing Pumps (12 nos.)	15 18-Jun-23	02-Jul-23	06-Mar-23	20-Mar-23	-104 S3P1614, S3P1634, S3P1654, S3P1779, S3C1999, S3P1674	S3C2251, S3T1032, S3T1044						
S3C2210	Installation of PAM Tank, Deformer dissolving Tank, Micro-nutrient tank and NaOH Tank	15 18-Jun-23	02-Jul-23	07-Mar-23	22-Mar-23	-103 S3P1612, S3C1999	S3C2251, S3T1044				•		
S3C2215	Installation of Drum Sludge Thickener	15 09-Jul-23	23-Jul-23	07-Mar-23	22-Mar-23	-124 S3P1782, S3C2142, S3C1999	S3C2251, S3T1041				•		
S3C2250	Installation of Heat Exchanger system	15 18-Jun-23	02-Jul-23	07-Mar-23	22-Mar-23	-103 S3P1474, S3C1999	S3C2270, S3C2251, S3T1043						
S3C2251	Installation of Pipeworks, Associate Valves and Fittings	30 28-Jul-23	26-Aug-23	22-Mar-23	21-Apr-23	-128 S3C2160, S3C2200, S3C2210, S3C2215, S3C2215, S3C2250, S3P1700, S3P1702, S3P1745, S3C1999	S3T1031, B1363						
S3C2255	E&M installation of DG Plant Room	45 18-Jun-23	01-Aug-23	14-Sep-23	29-Oct-23	89 S3C1999, S3S1100	S3S1110				-		
1/F		52 17-Jul-23	06-Sep-23	14-Mar-23	25-May-23	-104							
S3C2049	Access to Sidestream Treatment Facilities (1/F)	0 17-Jul-23		14-Mar-23		-125 S3C1120	\$3C2050, \$3C2230, \$3C2260, \$3C2270, \$3C2271, \$3C2275				•		
S3C2050	Installation of Lifting Appliance (LA-06)	45 17-Jul-23	30-Aug-23	27-Mar-23	10-May-23	-112 S3P1773, S3C2049	S3C2260				-		
S3C2230	Installation of Deodorisation System (DOU) No.4	30 17-Jul-23	15-Aug-23	27-Mar-23	25-Apr-23	-112 S3P1694, S3C2260, S3C2049	S3C2275, S3T1046						
S3C2260	Installation of Air Blower System	15 17-Jul-23	31-Jul-23	27-Mar-23	10-Apr-23	-112 S3P1775, S3C2050, S3C2049	S3C2270, S3C2275, S3C2230, S3T1039						
S3C2270	Installation of Ancillary Air Blower	7 01-Aug-23	07-Aug-23	13-Apr-23	19-Apr-23	-110 S3C2250, S3P1478, S3C2260, S3C2049	S3C2290, S3C2275, S3T1039				1		
S3C2271	Installation of Electric Calorifier and hot water Pumps	7 17-Jul-23	23-Jul-23	14-Mar-23	20-Mar-23	-125 S3P1765, S3P1696, S3C2049	S3C2275, S3T1032				1		
S3C2275	Installation of Pipeworks, Associate Valves and Fittings	30 08-Aug-23	06-Sep-23	26-Apr-23	25-May-23	-104 S3C2260, S3C2270, S3C2271, S3C2230, S3P1700, S3P1702, S3P1745, S3C2049	S3T1031				•		
Electrical Insta	llations	133 11-Jun-23	21-Oct-23	15-Feb-23	13-Jan-24	84							
B1350	Installation of Electrical system - Cable Containment	60 23-Jun-23	21-Aug-23	15-Feb-23	16-Apr-23	-128 B1353	B1351, S3T1050, B1364, B1365				-		
B1351	Installation of Electrical system - Wall Mount Equipment, Conduit & Wiring	60 23-Jul-23	20-Sep-23	15-Oct-23	14-Dec-23	85 B1350	B1352, S3T1050				-		
B1352	Installation of Electrical system - Lighting and Small Power Accessories	30 21-Sep-23	20-Oct-23	14-Dec-23	13-Jan-24	85 B1351	S3T1050				· ·		
	File Name: DE/2018/03 RP R28					Contract Na	DE/2010/0			Date	Revision	Checked	Approve
	I lie Naille. DL/ZU 10/UJ NF NZO					Contract No	o. DE/2018/0	5	3	1-Jul-22	Rev.24	ΙT	KM

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 30 of 58

Critical Activity

Milestone

Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Tota Floa	Predecessors	Successors	9 2020	2021 2022 J	2023	2024 J.J.A. J.J.	2025 7
B1363	Installation of Online Monitoring instrument / Level Control Equipment	56 26-Aug-23	21-Oct-23	21-Apr-23	15-Jun-23			S3C1250	<u> </u>	123	537331111111	111122222222	23333333333
	Jan 1971 1971 1971 1971 1971 1971 1971 197						S3P1767, S3P1725, S3C2251						
B1364	Power Cable laying and Termination	30 01-Aug-23	30-Aug-23	10-May-23	08-Jun-23	-8	3 B1374, B1350	S3T1010			•		
B1365	Installation of SCADA system	45 23-Jul-23	05-Sep-23	17-Mar-23	01-May-23	-12	8 B1350, S3P1704	S3T1040			-		
B1373	Installation of Transformer room	55 11-Jun-23	04-Aug-23	24-Feb-23	19-Apr-23	-10	7 S3P1784	S3T1000, B1374			-		
B1374	Installation of LV Switchroom	55 01-Jul-23	24-Aug-23	16-Mar-23	09-May-23	-10	7 S3P1771, B1373	B1364, S3T1000					
S3C1250	Installation of Gas Detection System	50 26-Aug-23	15-Oct-23	21-Apr-23	09-Jun-23	-12	8 S3P1480, B1363	S3T1080					
BS Equipment	Installation	120 24-May-23	20-Sep-23	16-Jan-23	13-Jan-24	11	5						
B1353	Installation of MVAC system - Ceiling Mount Equipment, Main Ductwork & Pipework	30 23-Jun-23	22-Jul-23	15-Feb-23	17-Mar-23	-12	8 B1356, S3P1483	B1354, S3T1048, B1350			•		
B1354	Installation of MVAC system - Wall Mount Equipment, Branch Duct & pipework	50 03-Jul-23	21-Aug-23	25-Oct-23	14-Dec-23	11:	5 B1353, S3P1483	B1355, S3T1048			-		
B1355	Installation of MVAC system - Air Grills & Diffuser	30 22-Aug-23	20-Sep-23	14-Dec-23	13-Jan-24	11:	5 B1354, S3P1483	S3T1048					
B1356	Installation of P&D System - Main Pipework	30 24-May-23	22-Jun-23	16-Jan-23	15-Feb-23	-12	B1359, S3S1020, S3C1100	B1357, B1353, S3T1049					
B1357	Installation of P&D System - Branch Pipework	50 03-Jun-23	22-Jul-23	15-Sep-23	04-Nov-23	10	5 B1356	B1358, S3T1049					
B1358	Installation of P&D System - Sanitary Fitting	30 23-Jul-23	21-Aug-23	04-Nov-23	04-Dec-23	10	5 B1357	S3T1049, S3S1030					
B1359	Installation of FS system - Main Pipework	30 24-May-23	22-Jun-23	16-Jan-23	15-Feb-23	-12	8 S3S1020, S3C1100	B1360, B1356, S3T1047					
B1360	Installation of FS system - Branch Pipework, Conduit & Wiring	50 03-Jun-23	22-Jul-23	15-Sep-23	04-Nov-23	10	5 B1359	B1361, S3T1047			•		
B1361	Installation of FS system - Dropper, Sprinkler Head, Detector & Devices	30 23-Jul-23	21-Aug-23	04-Nov-23	04-Dec-23	10	5 B1360	S3T1047, S3S1030					
Testing & Comn	nissioning	631 30-Jun-23	21-Mar-25	02-Mar-23	10-May-24	-31	6						
For KD3A - Cor	npletion of Phase 1 Commissioning - 15 Jan 2024	274 30-Jun-23	29-Mar-24	02-Mar-23	15-Jan-24	-7	4						
SAT		108 30-Jun-23	15-Oct-23	02-Mar-23	09-Jun-23	-12	8						
S3T1000	SAT for TX & LV Switch board	30 25-Aug-23	23-Sep-23	10-May-23	08-Jun-23	-10	7 B1374, B1373, S3P1480	S3T1010					
S3T1031	Pipe Pressure Test	100 30-Jun-23	07-Oct-23	02-Mar-23	09-Jun-23	-12	0 S3C2300, S3C2251, S3C2275	S3T1080					
S3T1032	Dry Test for Pumps	21 24-Jul-23	13-Aug-23	21-Mar-23	10-Apr-23	-12	5 \$3C2070, \$3C2080, \$3C2090, \$3C2100, \$3C2110, \$3C2130, \$3C2140, \$3C2142, \$3C2200, \$3C2271	S3T1033					
S3T1033	Wet Test for Pumps	30 14-Aug-23	12-Sep-23	11-Apr-23	10-May-23	-12	5 S3T1032	S3T1034	-		•		
S3T1034	Functional Test for Pumps	30 13-Sep-23	12-Oct-23	11-May-23				S3T1080					
S3T1035 S3T1036	SAT for Primary clarifier SAT for Secondary clarifier	14 17-Aug-23 14 23-Aug-23	30-Aug-23 05-Sep-23	27-May-23 27-May-23			2 S3C2160 8 S3C2170	S3T1080 S3T1080	 				
S3T1036 S3T1037	SAT for Phospaq Reactor	30 13-Sep-23	12-Oct-23		09-Jun-23		5 S3C2280,	S3T1080	1		•		
S3T1038	SAT for Anammox Reactor	30 13-Sep-23	12-Oct-23	11-May-23	09-Jun-23	-12	S3C2180 5 S3C2290, S3C2190	S3T1080	-		•		
							3302190			Date	Revision	Charles	Annered
	File Name: DE/2018/03 RP R28 Lavout: DE1803 RP (Nov 2022) - Critical Activity							DE/2018/03		31-Jul-22	Rev.24	Checked LT	Approved KM
	Layout: DE1803 RP (Nov 2022) - Critical Activity			Shek V	Vu Hui Ei	fflue	ent Polishing	g Plant - Mai	in Works Stage 1	31-Aug-22	Rev25	1	IZNA

Layout: DE1803 RP (Nov 2022) -WBS Page 31 of 58 Critical Activity

Milestone

Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020 2021 2022 2023 2024 2025 2 13 J JJ4 J JJ5 J JJ4 J J JJ4 J J JJ4 J J
S3T1039	SAT for Air blowers	30 08-Aug-23	06-Sep-23	11-May-23	09-Jun-23	-89	S3C2260, S3C2270	S3T1080	
S3T1040	SAT for SCADA System	60 16-Aug-23	15-Oct-23	11-Apr-23	09-Jun-23	-128	B1365	S3T1080	
S3T1041	SAT for Drum Sludge Thicken er	14 24-Jul-23	06-Aug-23	27-May-23	09-Jun-23		S3C2215	S3T1080	
S3T1042	SAT for mixer	30 16-Aug-23	14-Sep-23	11-May-23	09-Jun-23	-97	S3C2145	S3T1080	
S3T1043	SAT for Heat Exchanger	14 03-Jul-23	16-Jul-23	27-May-23	09-Jun-23	-37	S3C2250	S3T1080	
S3T1044	SAT for Dosing system	30 03-Jul-23	01-Aug-23	11-May-23	09-Jun-23	-53	S3C2210, S3C2200	S3T1080	
S3T1046	SAT for DOU no.4	45 16-Aug-23	29-Sep-23	26-Apr-23	09-Jun-23	-112	S3C2230	S3T1080	
Process Start	Up & Phase 1 Commissioning Test	188 24-Sep-23	29-Mar-24	09-Jun-23	15-Jan-24	-74			
S3T1010	Power Energization (Power Provision from DE/2018/04 Contract)	1 24-Sep-23	24-Sep-23	09-Jun-23	09-Jun-23	-107	S3T1000, B1364	S3T1020, S3T1080	
S3T1060	Existing sludge dewatering facilities Ready (by DE/2018/04 Contract)	0	15-Oct-23		09-Jun-23	-128		S3T1080	
S3T1070	Plant service water from zone B/C Ready (Zone B by DE/2018/04 Contract)	0	15-Oct-23		09-Jun-23	-128		S3T1080	
S3T1080	Process Start Up	92 15-Oct-23	15-Jan-24	10-Jun-23	09-Sep-23		S3T1070, S3T1060, S3T1060, S3T1060, S3T1010, S3T1034, S3T1035, S3T1036, S3T1039, S3T1041, S3T1042, S3T1042, S3T1044, S3T1046, S3T1037, S3T1038, S3T1037, S3T1031, S3T1040	S3T1090	
S3T1090	Submission & Acceptance of Process Start Up Report	14 15-Jan-24	29-Jan-24	10-Sep-23	23-Sep-23	-128	S3T1080	S3T1100	
S3T1100	Notice for Commencement of Phase 1 Commissioning Tests	7 22-Jan-24	29-Jan-24		23-Sep-23			S3T1110	
S3T1110	Phase 1 Commissioning Tests with daily result to PM	60 29-Jan-24	29-Mar-24	24-Sep-23	22-Nov-23	-128	S3T1100	S3T1120, S3T1130, S3T1115	
S3T1115	Completion of KD3A	0	29-Mar-24*		15-Jan-24	-74	S3T1110	KD1050-2	
	ompletion - Remaining Commissioning Works - 05 Jun 2024	578 22-Aug-23	21-Mar-25	23-Nov-23	10-May-24		0011110	NB 1000 E	
S3T1020	Essential T&C for FSD Inspection	30 25-Sep-23	24-Oct-23	09-Dec-23	08-Jan-24	76	S3T1010, S3P1480	S3S1150	
S3T1047	SAT for FS system	30 22-Aug-23	20-Sep-23	13-Jan-24	12-Feb-24	145	B1361, B1359, B1360	S3S1170	
S3T1048	SAT for MVAC System	30 21-Sep-23	20-Oct-23	13-Jan-24	12-Feb-24	115	B1355, B1353, B1354	S3S1170	
S3T1049	SAT for P&D system	30 22-Aug-23	20-Sep-23	13-Jan-24	12-Feb-24	145	B1356, B1357, B1358	S3S1170	
S3T1050	SAT for Electrical System (BS)	30 21-Oct-23	19-Nov-23	13-Jan-24	12-Feb-24		B1350, B1351, B1352	S3S1170	
S3T1120	Submission & Acceptance of Phase 1 Commissioning Tests Report	30 29-Mar-24	28-Apr-24	19-Jan-24	18-Feb-24	-70	S3T1110	S3T1150	
S3T1130	Phase 1 Post Commissioning with daily result to PM	19 29-Mar-24	17-Apr-24		11-Dec-23			S3T1150, S3T1170, S5T1120	
S3T1140	Ready to Process start up of the first Anaerobic Digester in Zone C	0 30-Jun-24		03-Feb-24		-148	S5T1120	S3T1150, S3T1170	
S3T1150	Submission & Acceptance of Phase 1 Post Commissioning Report	30 30-Jun-24	29-Jul-24	18-Feb-24	19-Mar-24		S3T1140,	S3T1180	
							S3T1120		

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 32 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Tota Floa	al Predecessors	Successors	1 3 1 2 9	2020	VIII	2021 J J J \$ J	2022 J J A J	2023		2024 J J A	2025 2 J J J A J J
S3T1170	Phase 2 Commissioning Tests with daily result to PM	45 30-Jun-24	13-Aug-24	03-Feb-24	19-Mar-24	-148	8 S3T1160	S3T1180,					123	5373311	111111	1112323322	2 2 3 3 3 3 3 3 3 3 3 3
			101.09				S3T1130, S3T1140	S3T1190, S3T1200,									
							3011140	S5T1200									
S3T1180	Submission & Acceptance of Phase 2 Commissioning Tests Report	30 14-Aug-24	12-Sep-24	19-Mar-24	18-Apr-24	-148	8 S3T1170,	S3T1210	1							•	
S3T1190	Commissioning of newAnaerobic Digesters (2 nos.) in Zone C Finished	0	28-Jan-25		10 Mar 24	216	S3T1150 6 S3T1170,	S3T1200	-						:		
3311190	Commissioning of New Arraerobic Digesters (2 nos.) in 20ne C Finished		20-0411-20		19-Mai-24	-510	S5T1170, S5T1180	3311200									
S3T1200	Phase 3 Commissioning Tests with daily result to PM	30 29-Jan-25	27-Feb-25	19-Mar-24	18-Apr-24	-316	6 S3T1190, S3T1170	S3T1210	1								•
S3T1210	Submission & Acceptance of Phase 3 Commissioning Tests Report	22 28-Feb-25	21-Mar-25	18-Apr-24	10-May-24	-316		SC31110	-								
3311213	Cashinocon an acceptance of three commissioning receives	22 20 1 00 20	21 War 20	10740121	10 May 21		S3T1180	0001110									
Statutory Subm	ission / Inspection (FSD)	1220 12-Jan-21 A	24-May-24	01-Sep-22	10-May-24	-15	5										
S3S1000	Prepare & Submit GBP for FSD approval	90 12-Jan-21 A	10-Feb-21 A	01-Sep-22	01-Sep-22	2		S3S1010	1			•					
S3S1010	FSD Review & Approval of GBP	180 11-Feb-21 A	11 lun 21 A	01 Son 22	01-Sep-22	,	S3S1000	S3S1150,	-								
3331010	F3D neview & Applioval of GBF	160 11-Feb-217	N III-JUII-ZIA	01-3ep-22	01-3ep-22	•	3331000	S3C1100									
S3S1020	Submit WWO46 Part I/II to WSD (FS / PD)	0 24-May-23		16-Jan-23		-128	8 S3D1550, S3D1510	B1359, B1356	1					•			
S3S1030	Submit WWO46 Part IV to WSD (FS / PD)	0 22-Aug-23		04-Dec-23		104	5 B1358, B1361	S3S1040	1					•			
3031000	Sastrate Total activity to the (10/10)	0 22-Aug-23						0001040									
S3S1040	WSD Inspection	7 05-Sep-23	11-Sep-23	18-Dec-23	25-Dec-23	10	5 S3S1030	S3S1060, S3S1050						0			
S3S1050	Issuance of FS Water Certificate	0	25-Sep-23		08-Jan-24	10!	5 S3S1040	S3S1030 S3S1150	-								
S3S1060	Issuance of Form WWO46 Part Va	0	25-Sep-23		12-Mar-24		9 S3S1040	S3S1080,	1					4	,		
0001070		45 00 0 00	20.11 20	10.14			2004000	S3S1070	1								
S3S1070 S3S1080	System Flushing / Sampling Issuance of Form WWO46 Part Vb	45 26-Sep-23	09-Nov-23 09-Nov-23	12-Mar-24	26-Apr-24 26-Apr-24		9 S3S1060 9 S3S1060,	S3S1080 S3S1090	-								
3331060	ISSUATICE OF FORTH WWW C40 FAIT VD		09-1100-23		20-Api-24	108	S3S1000, S3S1070	3331090							Ĭ		
S3S1090	Issuance of Water Certificate	0	23-Nov-23		-	_	9 S3S1080	SC31110							•	;;;;;;;;	
S3S1100	Submission & Approval of DG Application to FSD	180 29-Apr-22 A	21-Nov-22	13-Sep-23	14-Sep-23	297	7	S3C2255				•					
S3S1110	Submit Application to FSD for DG Licence	0 02-Aug-23		29-Oct-23		89	9 S3C2255	S3S1120	1					•			
S3S1120	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	21 17-Aug-23	06-Sep-23	13-Nov-23	04-Dec-23	89	9 S3S1110	S3S1130	1					•			
S3S1130	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	21 07-Sep-23	27-Sep-23	04-Dec-23	25-Dec-23		9 S3S1120	S3S1140	1							ļ	
S3S1140	DG Licence issued	0	11-Oct-23	00.1.04	08-Jan-24		9 S3S1130	S3S1150	1					1	•		
S3S1150	Prepare & Submit FS/314, FS/501 & FS/501a	14 25-Oct-23	07-Nov-23	08-Jan-24	22-Jan-24	/6	6 S3S1010, S3S1140,	S3S1160							•		
							S3S1050, S3T1020										
S3S1160	FSD Review & Approval of FS/314, FS/501 & FS/501a	21 08-Nov-23	28-Nov-23	22-Jan-24	12-Feb-24	. 76	6 S3S1150	S3S1170	-								
S3S1170	F.S. Inspection, Defects Redification & Re-inspection	60 27-Feb-24	26-Apr-24	12-Feb-24			5 S3S1160,	S3S1180	1							-	
							S3C1150, S3T1047,										
							S3T1049, S3T1048,										
							S3T1050										
S3S1180	Issuance of Acceptance Letter	28 27-Apr-24	24-May-24	12-Apr-24	10-May-24	-15	5 S3S1170	SC31110	1								
Section 4 - 0	Complete Construction & T&C for UV System No.1 & EP Station No. 1	932 18-Apr-20 A	13-Sep-22 A	12-Oct-22	16-Apr-25	1											
Major Plant & N	laterials Fabrication & Delivery	725 18-Apr-20 A	16-Mar-22 A	15-Feb-23	27-Mar-25												
S4P1000	Procurement & PO for FRP Cover	409 18-Apr-20 A	31-Mav-21 A	15-Feb-23	15-Feb-23		PL1010	S4P1090	•								
S4P1010	Procurement & PO for Pipeworks & Associated Valves	90 25-Apr-20 A	15-Jul-20 A	15-Feb-23	15-Feb-23		S1D1000	S4P1130									
S4P1020	Procurement & PO for Elec. Materials	365 18-Jul-20 A	22-Jun-21 A	27-Mar-25	27-Mar-25	j	S1D1130	S4P1140	1	_							
															ļļ	ļ	
S4P1030	Procurement & PO for FS System	60 02-Jul-20 A	04-Dec-20 A	27-Mar-25	27-Mar-25		S1D1330	S4P1150									
S4P1040	Fabrication of UV Disinfection System	239 18-Jan-21 A	17-Sep-21 A	15-Feb-23	15-Feb-23		S1P1000,	S4C1080,	1								
			,				KD1000, S1D1210	S4P1050									
S4P1050	FAT for UV Disinfection System	71 23-Jul-21 A	17-Sep-21 A	15-Feb-23	15-Feb-23		S4P1040	S4P1060	1								
J.1 1000		, ,	559 217	.510020	.5 . 55 25										<u> </u>		
	FILM DEPOSITOR TO BE DESCRIBED.	I											Date	Revi	ision T	Checked	Approved
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File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 33 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ty ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020 2021	2022	2023	2024	2025 2
											123 5	37331111111	11122222222	2333333333
S4P1060	Delivery of UV Disinfection System	149	01-Jun-21 A	22-Oct-21 A	15-Feb-23	15-Feb-23		S4P1050	S4C1080					
S4P1070	Fabrication & Delivery of Lift-up Pumps	225	11-Jan-21 A	26-Jul-21 A	15-Feb-23	15-Feb-23		S1P1010, S1D1290	S4C1040					
S4P1080	Fabrication & Delivery of Transfer Pumps	218	26-Feb-21 A	26-Jul-21 A	15-Feb-23	15-Feb-23		S1P1020, S1D1290	S5UVPC1000					
S4P1090	Fabrication & Delivery of FRP Cover	89	01-Nov-21 A	16-Mar-22 A	15-Feb-23	15-Feb-23		S1D1290, S4P1000, S1P1020, PL1010	S4T1010	-				
S4P1100	Fabrication & Delivery of EOT Cranes (2T & 5T)	170	28-Jan-21 A	27-May-21 A	15-Feb-23	15-Feb-23		S1P1030, S1D1290	S4C1020					
S4P1110	Fabrication & Delivery of Stoplogs	289	16-Dec-20 A	07-Oct-21 A	15-Feb-23	15-Feb-23		S1P1040, S1D1290	S4C1070					
S4P1120	Fabrication & Delivery of Penstocks	256	18-Jan-21 A	07-Oct-21 A	15-Feb-23	15-Feb-23		S1P1050, S1D1290	S4C1070					
S4P1130	Fabrication & Delivery of Pipeworks & Associated Valves	200	11-Jan-21 A	08-Sep-21 A	15-Feb-23	15-Feb-23		S4P1010, S1D1290	S4C1040					
S4P1140	Fabrication & Delivery of Elec. Materials	190	24-Jun-21 A	31-Dec-21 A	27-Mar-25	27-Mar-25		S4P1020, S1D1330	S4C1120					
S4P1150	Fabrication & Delivery of FS System	187	18-Apr-21 A	28-Oct-21 A	27-Mar-25	27-Mar-25		S4P1030, S1D1330	S4C1100					
S4P1160	Fabrication & Delivery of Temp. Switchboard	194	05-May-21 A	15-Dec-21 A	15-Feb-23	15-Feb-23			S4C1000					
E&M Installation		449	25-Apr-21 A	23-Jun-22 A	12-Oct-22	27-Mar-25								
S4C1000	Provision of Temporary Power for UV System No.1 & Effluent Transfer Pumping Station	45	15-Dec-21 A	11-Mar-22 A	15-Feb-23	15-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	12-Oct-22	12-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	15-Feb-23	15-Feb-23		S1D1180, S1D1260, S4C1010, S4P1100	S4T1010, S4C1030, S4C1040, S4C11110, S4C1090, S4T1000, S4C1080, S4C1070, PL1200					
S4C1030	E&M Installation of EOT Cranes (5T)	60	20-Oct-21 A	11-Dec-21 A	15-Feb-23	15-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	15-Feb-23	15-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	15-Feb-23	15-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		15-Feb-23				S4C1070	•				
S4C1070	E&M Installation of Penstocks & Stoplogs (Impacted by CNE-014)	66	11-Nov-21 A	15-Jan-22 A	15-Feb-23	15-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	15-Feb-23	15-Feb-23		S4P1040, S4P1060, S4C1020	S4T1010, S5TXRC1050, PL1200					
S4C1090	FS Installation - Conduits, Trunking, & Pipeworks	74	08-Nov-21 A	18-Jan-22 A	27-Mar-25	27-Mar-25		S4C1010, S4C1020	S4C1100, PL1200					
S4C1100	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	67	15-Nov-21 A	18-Jan-22 A	27-Mar-25	27-Mar-25		S4P1150, S4C1090	SC41110, S4S1010, PL1200		J J J			
S4C1110	BS Fitting Installation - Conduits, Trunking, & Ductworks	111	15-Nov-21 A	19-Feb-22 A	27-Mar-25	27-Mar-25		S4C1020, S1D1310	S4C1120, PL1200	1 				

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 34 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
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30-Nov-22	Rev.28	LT	KM

y ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	1 3 1 1 9	2020				2022 J J A	+ + + + + + + + + + + + + + + + + + + 		J	2024 JJA	202 J
S4C1120	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	139 13-Dec-21 A	21-May-22 A	27-Mar-25	27-Mar-25	S4C1110,	S4C1150,	<u> - - - - - - - - - </u>			- - - - -			- - 1 2 3 5	373311	111111	111232332	<u> </u>
S4C1130	Excavation Works & Cable Laying - by CLP (Impacted by CNE-035)	184 22-Dec-21 A	23-Jun-22 A	15-Feb-23	15-Feb-23	S4P1140	PL1200 S4C1140	-										
S4C1140	Ready for Power Energization	0	23-Jun-22 A		15-Feb-23	S4C1000, S4C1130, S4S1000	S4S1030, S4T1010	-					•					
S4C1150	Installation of CCTV System	37 14-Mar-22 A	19-Apr-22 A	27-Mar-25	27-Mar-25	S4C1120	SC41110, PL1200											
S4C1160	Installation of FS Link	84 17-Nov-21 A	08-Feb-22 A	27-Mar-25	27-Mar-25		S4S1010, PL1200	-				-						
Statutory Submi	ission / Inspection	511 17-Apr-21 A	02-Aug-22 A	15-Feb-23	16-Apr-25													
CLP Submission	on	425 17-Apr-21 A	15-Jun-22 A	15-Feb-23	15-Feb-23													
S4S1000	Submission & Approval of Electrical Schematic Wiring Diagram to CLP (Temp. Power)	425 17-Apr-21 A	15-Jun-22 A	15-Feb-23	15-Feb-23		S4C1140											
FSD Submission	on & 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 Redification & Re-inspection	4 26-Jul-22 A	29-Jul-22 A	16-Apr-25	16-Apr-25	S4S1020, S4C1140	S4S1040						ı					
S4S1040	Issuance of Acceptance Letter	14 30-Jul-22 A	02-Aug-22 A	16-Apr-25	16-Apr-25	S4S1030	SC41110						1					
Testing & Comn	nissioning	329 18-Sep-21 A	13-Sep-22 A	15-Feb-23	15-Feb-23				1 1		1	1		111				
S4T1000	T&C and R.P.E inspection for EOT Cranes	133 18-Sep-21 A	28-Jan-22 A	15-Feb-23	15-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	13-Sep-22 A	15-Feb-23	15-Feb-23	S4C1020, S4C1070, S4C1080, S4C1000, S4T1000, S4C1040, S4P1090, S4C1140	S4T1020											
S4T1020	System Commissioning Tests	3 11-Sep-22 A	13-Sep-22 A	15-Feb-23	15-Feb-23	S4T1010	SC41110, PL1290, S5UVPC1000	-					1					
Section 5 - C	Complete all remaining Works (incl. T&C)	1769 18-May-20 A	21-Mar-25	22-Mar-22	16-Apr-25	26												
Fabrication, FAT	& Delivery of Major Plant & Materials	802 18-May-20 A	14-Dec-22	13-Apr-22	16-Apr-25	854			1 1	; ;	1	1	ii	111				
S5P1000	Procurement & PO for Biogas Booster and Transfer Pumps	735 17-Jul-20 A	21-Nov-22	30-Jul-22	30-Jul-22	-114 S2P1000	S5BIOP1000		_									
S5P1010	Procurement & PO for Pipeworks & Associated Valves	539 29-Jan-21 A	21-Nov-22	04-Aug-22	04-Aug-22	-109 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	30-Sep-22	30-Sep-22	S2P1000	S5FCDP1000		_									
S5P1040	Procurement & PO for Ferric Chloride Dosing Pump	726 18-May-20 A	13-May-22 A	24-Nov-22	24-Nov-22	S2P1020	S5FCDP1010	<u> </u>				44		†-†- <u>†-</u>				†† <u>†</u>

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 35 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
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ivity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total P Float	redecessors	Successors	9 2020 2021	2022 J J J J A J J J	2023 J J A	2024 J J J A J	2025
S5P1050	Procurement & PO for Electrical Sub-contractor	396	21-Jun-21 A	14-Dec-22	13-Apr-22	06-May-22		S2P1130.	\$5\$DBC1710, \$5\$DBC1680, \$5\$DBC1740, \$5\$CHPC1100, \$5\$CHPC1230, \$5CHPC1290, \$5TXRC1030, \$5TXRC1040, \$5DIGC1120, \$5DIGC1160, \$5DIGC1260, \$5DIGC1260, \$5EXAC1040, \$5EXAC1040, \$5EXAC1050, \$5EXAC1050, \$5EXAC1050, \$5EXAC1045					
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	1248	11-Aug-21 A	30-Dec-23	22-Mar-22	27-Feb-24	59							
Procurement, Fabi	rication, FAT & Delivery of Major Plant & Materials	1213	11-Aug-21 A	11-Oct-23	22-Mar-22	01-Sep-23	-41							
Procurement		942	31-Jul-22 A	31-Jan-23	07-May-22	15-Jan-23	-16							
S5SDBP1190	Procurement & PO for Genset	174	31-Jul-22 A	20-Jan-23	07-May-22	06-Jul-22	-198		S5SDBP1200					
S5SDBP1485	Procurement & PO for DI pipework (G/F and 1/F)	160	24-Aug-22 A	30-Jan-23	24-Jun-22	02-Sep-22	-150		S5SDBP1555	-	-			
S5SDBP1575	Procurement & PO for Process Water Pumps	45	17-Dec-22*	30-Jan-23	11-Sep-22	25-Oct-22	-97		S5SDBP1565	1				
S5SDBP1595	Procurement & PO for FRP ductworks	45	31-Oct-22 A	30-Nov-22	06-Jan-23	15-Jan-23	46		S5SDBP1585		•			
S5SDBP1615	Procurement & PO for DI pipework (B/F)	45	17-Aug-22 A	20-Oct-22 A	04-Aug-22	04-Aug-22			S5SDBP1605					
S5SDBP1630	Procurement & PO for Sludge Skip (PS Screen & Dewatering Screen)	75	18-Nov-22 A	31-Jan-23	07-Oct-22	17-Dec-22	-45		S5SDBP1310					
Mechanical		612	11-Aug-21 A	14-Jul-23	26-Apr-22	01-Sep-23	48							
Fabrication and FA	п	603	11-Aug-21 A	14-Jun-23	26-Apr-22	01-Sep-23	78							
S5SDBP1140	Fabrication & FAT of PS Screen Feed Pump	201	11-Apr-22 A	28-Oct-22 A	23-Nov-22	23-Nov-22			S5SDBP1145	-				
S5SDBP1150	Fabrication & FAT of Sludge Screen	350	11-Aug-21 A	26-Jul-22 A	05-Feb-23	05-Feb-23			S5SDBP1155					
S5SDBP1170	Fabrication & FAT of External Sludge Transfer Pump	201	11-Apr-22 A	28-Oct-22 A	30-Nov-22	30-Nov-22			S5SDBP1085					
S5SDBP1210	Fabrication & Delivery of Lift	210	18-Dec-21 A	10-Aug-22 A	01-Sep-23	01-Sep-23			S5SDBC1770					
S5SDBP1212	FAT of Sludge Thickening Centrifuges	16	16-May-22 A	31-May-22 A	17-Nov-22	17-Nov-22	S	S5SDBP1260	S5SDBP1215					
S5SDBP1230	Fabrication and FAT of Recirculation Pumps	175	10-Mar-22 A	31-Aug-22 A	19-Sep-22	19-Sep-22			S5SDBP1185					
S5SDBP1240	Fabrication and FAT of Primary Sludge Holding Tank Mixer	191	22-Sep-22 A	31-Mar-23	28-Aug-22	05-Jan-23	-85		S5SDBP1195					
S5SDBP1242	FAT of Sludge Dewatering Centrifuges	62	06-Jul-22 A	05-Sep-22 A	17-Dec-22	17-Dec-22	S	S5SDBP1290	S5SDBP1245		-			
S5SDBP1250	Fabrication and FAT of Thickening Centrifuge Feed Pump	201	11-Apr-22 A	28-Oct-22 A	06-Nov-22	06-Nov-22			S5SDBP1205					
S5SDBP1260	Fabrication of Sludge Thickening Centrifuges	206	22-Oct-21 A	15-May-22 A	17-Nov-22	17-Nov-22			S5SDBP1212	1				
S5SDBP1270	Fabrication and FAT of Thickening Sludge Silo	98	01-Nov-22 A	06-Feb-23	29-Dec-22	16-Mar-23	38		S5SDBP1225					
S5SDBP1280	Fabrication and FAT of THP Feed Pump	100	31-Aug-22 A	31-Jan-23	14-Oct-22	24-Dec-22	-38		S5SDBP1235					
S5SDBP1290	Fabrication of Sludge Dewatering Centrifuges	238	10-Nov-21 A	05-Jul-22 A	17-Dec-22	17-Dec-22			S5SDBP1242	-				
S5SDBP1300	Fabrication and FAT of Conveyor	135	17-Oct-22 A	28-Feb-23	08-Oct-22	15-Jan-23	-44		S5SDBP1265		+			
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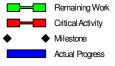
File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 36 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
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30-Nov-22	Rev.28	LT	KM

S5SDBP1320 Fabrica S5SDBP1330 Fabrica S5SDBP1340 Fabrica S5SDBP1350 Fabrica S5SDBP1360 Fabrica S5SDBP1370 Fabrica S5SDBP1380 Fabrica	cation and FAT of Sludge Skip (PS Screen & Dewatering Screen) cation and FAT of Centrate Transfer Pumps cation and FAT of Thickening Polymer Powder Unit cation and FAT of Preparation Tank Mixers cation and FAT of Storage Tank Mixers cation and FAT of Polymer Transfer Pumps cation and FAT of FRP Tank (Thickening & Dewatering Polymer Dosing System)	313 25- 226 06- 310 28- 310 28-	Apr-22 A	14-Jun-23 31-Jan-23 17-Nov-22 A 31-Jan-23	18-Dec-22 03-May-22 26-Apr-22 06-Oct-22		2 -202	S5SDBP1630	S5SDBP1275 S5SDBP1295			11111111	11123233232	23333333333
S5SDBP1320 Fabrica S5SDBP1330 Fabrica S5SDBP1340 Fabrica S5SDBP1350 Fabrica S5SDBP1360 Fabrica S5SDBP1370 Fabrica S5SDBP1380 Fabrica	cation and FAT of Centrate Transfer Pumps cation and FAT of Thickening Polymer Powder Unit cation and FAT of Preparation Tank Mixers cation and FAT of Storage Tank Mixers cation and FAT of Polymer Transfer Pumps	313 25- 226 06- 310 28- 310 28-	Mar-22 A Apr-22 A Mar-22 A	31-Jan-23 17-Nov-22 A	03-May-22 26-Apr-22	13-Jul-22	2 -202		S5SDBP1295					
S5SDBP1340 Fabrica S5SDBP1350 Fabrica S5SDBP1360 Fabrica S5SDBP1370 Fabrica S5SDBP1380 Fabrica	cation and FAT of Preparation Tank Mixers cation and FAT of Storage Tank Mixers cation and FAT of Polymer Transfer Pumps	310 28- 310 28-	Mar-22 A		·	26-Apr-22	2		CECUBD1015					
S5SDBP1340 Fabrica S5SDBP1350 Fabrica S5SDBP1360 Fabrica S5SDBP1370 Fabrica S5SDBP1380 Fabrica	cation and FAT of Preparation Tank Mixers cation and FAT of Storage Tank Mixers cation and FAT of Polymer Transfer Pumps	310 28- 310 28-	Mar-22 A		·	26-Apr-22	2		CEGDDD404E			1 1		
S5SDBP1350 Fabrica S5SDBP1360 Fabrica S5SDBP1370 Fabrica S5SDBP1380 Fabrica	cation and FAT of Storage Tank Mixers cation and FAT of Polymer Transfer Pumps	310 28		31-Jan-23	06-Oct-22				S5SDBP1315, S5SDBP1380					
S5SDBP1360 Fabrica S5SDBP1370 Fabrica S5SDBP1380 Fabrica	cation and FAT of Polymer Transfer Pumps		Mar-22 A			16-Dec-22	-46		S5SDBP1325					
S5SDBP1360 Fabrica S5SDBP1370 Fabrica S5SDBP1380 Fabrica	cation and FAT of Polymer Transfer Pumps		iviar-22 A	04 1 00	00 0-1 00	40 D 00	10		05000004005	_				
S5SDBP1370 Fabrica	<u> </u>	201 11-		31-Jan-23	06-Oct-22	16-Dec-22	-46		S5SDBP1335					
S5SDBP1380 Fabrica	cation and FAT of FRP Tank (Thickening & Dewatering Polymer Dosing System)		Apr-22 A	28-Oct-22 A	17-Sep-22	17-Sep-22	2		S5SDBP1345					
S5SDBP1380 Fabrica	cation and the office lank (micketing a bewatering tolymer bosing bystem)	75 28.	Nov-22*	10-Feb-23	24-Aug-22	06-Nov-22	96		S5SDBP1365					
		75 20	1107-22	10-160-23	24-Aug-22	00-1107-22	30		000DDI 1000					
050055	cation and FAT of Dewatering Polymer Powder Unit	226 06	Apr-22 A	17-Nov-22 A	26-Apr-22	26-Apr-22	2	S5SDBP1330	S5SDBP1385					
S5SDBP1390 Fabrica	cation and FAT of Polymer Dosing Pumps	201 11-	Apr-22 A	28-Oct-22 A	07-Jan-23	07-Jan-23	3		S5SDBP1355	-				
			•											
S5SDBP1450 Fabrica	cation and FAT of Dewatering Centrifuge Feed Pumps	201 11-	Apr-22 A	28-Oct-22 A	23-Nov-22	23-Nov-22	2		S5SDBP1455					
S5SDBP1460 Fabrica	cation and FAT of Mixers (Digested Sludge Holding Tank)	90 22	Sep-22 A	31-Jan-23	25-Nov-22	04-Feb-23	3 4		S5SDBP1465	-				
S5SDBP1470 Fabrica	cation and FAT of Sludge Transfer Pumps (THP By Pass)	201 11-	Apr-22 A	28-Oct-22 A	16-Nov-22	16-Nov-22	2		S5SDBP1475					
S5SDBP1520 Fabrica	cation and FAT of Hoist	197 21	Mar-22 A	30-Nov-22	23-Jul-22	01-Aug-22	-121		S5SDBP1525					
OFODDD4500 Fabrica	anting and FAT of Observation (Advanced by	00 00	A 00 A	00 D 00	40 Nov. 00	04 N 00			05000004505					
S5SDBP1530 Fabrica	cation and FAT of Steel Work (Monorails)	60 29	Aug-22 A	02-Dec-22	13-NOV-22	24-Nov-22	8- 1		S5SDBP1535					
S5SDBP1540 Fabrica	cation and FAT of Steel Work (EOT)	60 29	Aug-22 A	02-Dec-22	03-Aug-22	14-Aug-22	-110		S5SDBP1545					
SSSDRP1565 Fabrics	cation and FAT of Process Water Pumps	60 31.	Jan-23	31-Mar-23	26-Oct-22	24-Dec-22	9 -97	S5SDBP1575	S5SDBP1495	-				
Delivery	cation and FAT of Frocess water Fumps			14-Jul-23		16-Apr-23			333DDI 1493					
S5SDBP1085 Deliver	ery of External Sludge Transfer Pump	79 20		14-Jan-23	30-Nov-22	23-Jan-23	2 0	S5SDBP1170	S5SDBC1135				}	
333DDI 1003 Deliver	by of External Studge Transfer Fullip	70 29	OCI-22 A	14-0411-25	30-1107-22	25-0aii-25	, 3	333DBI 1170	3330001133					
S5SDBP1145 Deliver	ery of PS Screen Feed Pump	78 29	Oct-22 A	14-Jan-23	23-Nov-22	16-Jan-23	3 2	S5SDBP1140	S5SDBC1790					
S5SDBP1155 Deliver	ery of Sludge Screen Press	76 27	Jul-22 A	31-Oct-22 A	05-Feb-23	05-Feb-23	1	S5SDBP1150	S5SDBC1590	-				
S5SDBP1185 Deliver	ery of Recirculation Pumps	60 01	Sep-22 A	31-Oct-22 A	19-Sep-22	19-Sep-22	2	S5SDBP1230	S5SDBC1115, S5SDBC1165					
S5SDBP1195 Deliver	ery of Primay Sludge Holding Tank Mixer	60 01-	Apr-23	30-May-23	06-Jan-23	06-Mar-23	8 -85	S5SDBP1240	S5SDBC1314					
S5SDBP1205 Deliver	ery of Thickening Centrifuges Feed Pump	95 29	Oct-22 A	31-Jan-23	06-Nov-22	16-Jan-23	-15	S5SDBP1250	S5SDBC1175					
S5SDBP1215 Deliver	ery of Sludge Thickening Centrifuges	1/3 01	Jun-22 A	28-Oct-22 A	17-Nov-22	17-Nov-22)	S5SDBP1212	S5SDBC1570	_				
333DBF1213 Delivery	ery of Sludge Trilokering Certainages	143 01	Juli-22 A	20-001-22 A	17-1100-22	17-1100-22	-	333DBF 1212	333DBC1370					
	ery of Thickening Sludge Silo			08-Mar-23	17-Mar-23			S5SDBP1270	S5SDBC1450					
	ery of THP Feed Pump ery of Sludge Dewatering Centrifuges	30 01-		02-Mar-23	25-Dec-22			S5SDBP1280 S5SDBP1242	S5SDBC1780 S5SDBC1580		_ •			
Delivery	ory or orange permatering centillages	24 07	0 0 p-22 A	30-Sep-22 A	17-060-22	17-Dec-22	-	000DDF 1242	000DDC1000					
	ery of Conveyor	30 01-		30-Mar-23	16-Jan-23			S5SDBP1300	S5SDBC1450					
	ery of Sludge Skip (PS Screen & Dewatering Screen)	30 15		14-Jul-23	18-Mar-23			S5SDBP1310	S5SDBC1870		- <u>-</u> •			
	ery of Centrate Transfer Pumps ery of Thickening Polymer Powder Unit		Feb-23 Nov-22 A	01-Apr-23 31-Jan-23	14-Jul-22 19-May-22			S5SDBP1320 S5SDBP1330	S5SDBC1105 S5SDBC1470,	-				
	,				,				S5SDBC1265	_				
S5SDBP1325 Deliver	ery of Preparation Tank Mixers	60 01-	Feb-23	01-Apr-23	17-Dec-22	14-Feb-23	-46	S5SDBP1340	S5SDBC1600, S5SDBC1285					
S5SDBP1335 Deliver	ery of Storage Tank Mixers	60 01-	Feb-23	01-Apr-23	17-Dec-22	14-Feb-23	-46	S5SDBP1350	S5SDBC1600,	 				
		100		·	470 -	00.1			S5SDBC1285	4				
S5SDBP1345 Delivery	ery of Polymer Transfer Pumps	138 29-	Oct-22 A	15-Mar-23	1/-Sep-22	09-Jan-23	-65	S5SDBP1360	S5SDBC1145, S5SDBC1810					
S5SDBP1355 Deliver	ery of Polymer Dosing Pumps	78 29	Oct-22 A	14-Jan-23	07-Jan-23	02-Mar-23	47	S5SDBP1390	S5SDBC1610,		•			
CECUPPINE Dell'	on, of EDD Tank /Thickoning & Dougtoring Polymor Dooing Contains	00 11	Ech 02	10 Mar 00	07 Nov 00	06 Dec 00	000	CECDED1070	S5SDBC1325	-	_			
S5SDBP1365 Delivery	ery of FRP Tank (Thickening & Dewatering Polymer Dosing System)	30 11-	⊏ ∪ υ-∠3	12-Mar-23	U7-NOV-22	06-Dec-22	-96	S5SDBP1370	S5SDBC1560, S5SDBC1275					

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 37 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors		2021 2022	2023 T	2024	2025 [26
OFODDD4005			00 5 1 00	00.4.00	00.1.100		05000001000	0500001005		123 5			
S5SDBP1385	Delivery of Dewatering Polymer Powder Unit	30 18-Nov-22 A	23-Feb-23	26-Apr-22	29-Jul-22	-209	S5SDBP1380	S5SDBC1265					
S5SDBP1455	Delivery of Dewatering Centrifuges Feed Pumps	78 29-Oct-22 A	14-Jan-23	23-Nov-22	16-Jan-23	2	S5SDBP1450	S5SDBC1185	 -				
00000011400	Delivery of Deviationing defininges received an inpo	70 23 301 22 71	14 0011 20	LO NOV LL	10 0011 20	_	0000011400	COODDOTTOO					
S5SDBP1465	Delivery of Mixers (Digested Sludge Holding Tank)	30 01-Feb-23	02-Mar-23	05-Feb-23	06-Mar-23	4	S5SDBP1460	S5SDBC1312					
S5SDBP1475	Delivery of Sludge Transfer Pumps (THP By Pass)	78 29-Oct-22 A	14-Jan-23	16-Nov-22	09-Jan-23	-5	S5SDBP1470	S5SDBC1165		—			
	Delivery of Process Water Pumps	30 01-Apr-23	30-Apr-23		23-Jan-23		S5SDBP1565	S5SDBC1125			-		
S5SDBP1525	Delivery of Hoist	47 01-Dec-22	16-Jan-23	02-Aug-22	17-Sep-22	-121	S5SDBP1520	S5SDBC1440, S5SDBC1550,					
								S5SDBC1530,					
								S5SDBC1540			1 1 1		
S5SDBP1535	Delivery of Steel Work (Monorails)	14 12-Sep-22 A	25-Sep-22 A	25-Nov-22	25-Nov-22		S5SDBP1530	S5SDBC1440, S5SDBC1550					
959DRD1545	Delivery of Steel Work (EOT)	40 28-Oct-22 A	06-Dec-22	15_Aug_22	19-Aug-22	-110	S5SDBP1540	S5SDBC1530,	-				
333DBF 1343	Delivery of Steel Work (EOT)	40 20-001-22 A	00-Dec-22	15-Aug-22	10-Aug-22	-110	333DBF 1340	S5SDBC1530, S5SDBC1540					
S5SDBP1555	Fabrication and delivery of DI pipework (G/F and 1/F)	60 31-Jan-23	31-Mar-23	03-Sep-22	01-Nov-22	-150	S5SDBP1485	S5SDBC1460,			4		
								S5SDBC1620					
	Fabrication and delivery of FRP ductworks	60 05-Jan-23*	05-Mar-23	16-Jan-23			S5SDBP1595	S5SDBC1860					
	Fabrication and delivery of DI pipework (B/F)	60 05-Jan-23*	05-Mar-23	-			S5SDBP1615	S5SDBC1400	<u> </u>				
Electrical and Co.	ontrol	360 17-Oct-22 A	11-Oct-23	22-Mar-22	09-Feb-23	-244							
S5SDBP1171	Fabrication & Delivery of Cable	90 21-Jan-23*	20-Apr-23	28-Sep-22	26-Dec-22	-115		S5SDBC1225			a		
S5SDBP1180	Fabrication & Delivery of SCADA System	360 17-Oct-22 A	11-Oct-23	· ·	09-Feb-23			S5SDBC1730,	1	<u> </u>			
								S5SDBC1760, S5SDBC1700					
05000004000	Fabrication 0 Daliton of Connect	404 00 M- :: 00*	00 4 00	07 1:100	47 Nov. 00	004	05000004400						
S5SDBP1200	Fabrication & Delivery of Genset	134 28-Mar-23*	08-Aug-23	-			S5SDBP1190	S5SDBC1500					
S5SDBP1220 S5SDBP1223	Fabrication & Delivery of LV Switchboard for G/F Fabrication & Delivery of LV Switchboard for 1/F	142 24-Jan-23*	14-Jun-23 23-May-23		26-Nov-22 25-Nov-22			S5SDBC1520 S5SDBC1375					
S5SDBP1223 S5SDBP1600	Fabrication of 380V Transfomers	141 03-Jan-23* 120 16-Jan-23*	15-May-23		25-Nov-22 13-Sep-22			S5SDBC1375 S5SDBP1610					
S5SDBP1610	FAT for 380V Transformers	14 02-May-23	15-May-23				S5SDBP1600	S5SDBP1610			T.		
S5SDBP1620	Delivery of 380V Transfomers	60 16-May-23	14-Jul-23	-				S5SDBC1510	-				
Installation	Delivery of 500V Transformers	487 06-Jun-22 A		· ·	01-Jan-24			0000001010			17		
ii iStaliation		407 00 00H ZZ/Y	00 1107 20	Z7 IVIQI ZZ	01 0411 24	02					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
NCE-PMI-0325 - I	Provision of 2 nos of 3 Tons Mobile A-frame with Electrical Hoist in SDB	487 06-Jun-22 A	30-Nov-23	27-Mar-22	01-Jan-24	32							
S5SDBC1650	Access to Sludge Dewatering Building (Impacted by EWN-0314)	1 09-Sep-22 A	09-Sep-22 A	27-Mar-22	27-Mar-22			S5SDBC1670					
S5SDBC1660	Access to Sludge Dewatering Building (Impacted by EWN-0314-1)	1 09-Sep-22 A	09-Sep-22 A	27-Mar-22	27-Mar-22			S5SDBC1670					
050DDC1670	Mahilipatina	15 09-Sep-22 A	22 Con 22 A	07 Mar 00	07 Mar 00		CECDBC16E0	CECDBC1420					
S5SDBC1670	Mobilisation	15 09-5ep-22 A	23-Sep-22 A	27-IVIAT-22	27-Mar-22		S5SDBC1650, S5SDBC1660	S5SDBC1480.					
								S5SDBC1520,					
								S5SDBC1410, S5SDBC1500,					
								S5SDBC1115, S5SDBC1265					
l								333DBC1203					
E&M Installation		487 06-Jun-22 A	30-Nov-23	06-May-22	16-Oct-23	-45							
Basement		320 15-Jan-23	30-Nov-23	30-Jul-22	16-Oct-23	-45							
				00 001 22	10 000 20	70							
Mechanical		248 15-Jan-23	19-Sep-23	30-Jul-22	16-Mar-23	-187							
S5SDBC1105	Installation of Centrate Transfer Pumps (3 nos.)	7 02-Apr-23	08-Apr-23	12-Sep-22	18-Sep-22	-202	S5SDBP1295	S5SDBC1400,			1		
	Installation of Recirculation Pumps for Centrate Tank, Sludge Blend Tanks & THP by-pass	14 09-Apr-23	22-Apr-23	19-Sep-22			S5SDBP1185,	S5SDBT1080,					
	Sludge Holding Tank (6 nos.)						S5SDBC1670,	S5SDBC1400					
	Installation of Process Water Pumps (3 nos.)	7 01-May-23	07-May-23	24-Jan-23	30-Jan-23		S5SDBP1495,	S5SDBT1080,			0		
	Installation of External Sludge Transfer Pumps (2 nos.)	7 15-Jan-23	21-Jan-23	24-Jan-23	30-Jan-23		S5SDBP1085	S5SDBT1080,		1			
	Installation of Sludge Dewatering Polymer Transfer Pumps (2 nos.)	7 16-Mar-23	22-Mar-23	10-Jan-23			S5SDBP1345	S5SDBT1080,		-			
S5SDBC1165	5 Installation of THP by-pass Sludge Holding Tank Transfer Pumps (4 nos.)	7 16-Mar-23	22-Mar-23	10-Jan-23	16-Jan-23	-65	S5SDBP1475, S5SDBP1185,	S5SDBT1080, S5SDBC1400,		-			
Q5QDB0117E	5 Installation of Thickening Centrifuges Feed Pumps (4 nos.)	7 23-Mar-23	29-Mar-23	17-Jan-23	23-Jan-23	-65	S5SDBP1205,	S5SDBC1400, S5SDBT1080,	1				
	Installation of Trickening Centrituges Feed Pumps (4 nos.) Installation of Dewatering Centrifuges Feed Pumps (3 nos.)	7 23-Mar-23 7 23-Mar-23	29-Mar-23 29-Mar-23	17-Jan-23 17-Jan-23			S5SDBP1205, S5SDBP1455,	S5SDBT1080, S5SDBT1080,	1				
	5 Installation of Dewatering Centriluges Feed Pumps (3 nos.) 5 Installation of Dewatering Polymer Powder Feed Units	7 23-Mar-23 45 24-Feb-23	29-Mar-23 09-Apr-23	30-Jul-22			S5SDBP1455, S5SDBP1385,	S5SDB11080, S5SDBC1710,	 -		<u></u>		
	5 Installation of Dewatering Polymer Preparation Tanks	45 13-Mar-23	26-Apr-23	07-Dec-22			S5SDBP1365	S5SDBC1710,	1				
	Installation of Polymer Mixer	30 02-Apr-23	01-May-23	15-Feb-23			S5SDBP1335,	S5SDBT1160	1		L		
2222231200		1	, Lo							1 5-1	T Desires	I Observational	1 0
	File Name: DE/2018/03 RP R28					Co	ntract No.	DE/2018/03		Date	Revision	Checked	Approved
	Layout: DE1803 RP (Nov 2022) - Critical Activity			Shek \	Nu Hui Ef				n Works Stage 1	31-Jul-22	Rev.24	LT.	KM

Layout: DE1803 RP (Nov 2022) -WBS Page 38 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev28	ΙΤ	KM

ctivity ID	Activity Name	Original Early Start	Early Finish	Late Start	Late Finish	Total Predecessors	Successors	9 2020 2021	2022	2023	2024	2025 26
0500001005		00 00 1 100	10.0	04 1 00	04.1400	000 0500001100	050DDT1101	<u> </u>				
	Installation of Instruments	60 22-Jul-23	19-Sep-23	01-Jan-23		-202 S5SDBC1400	S5SDBT1181	-				
S5SDBC1400 Electrical	Installation of Process Pipe	120 23-Apr-23	20-Aug-23			-202 S5SDBC1115,	S5SDB11100,	-				
Electrical		235 10-Apr-23	30-Nov-23	13-Sep-22	16-Oct-23	-45						
S5SDBC1072	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	50 20-Apr-23	08-Jun-23	29-Jul-23	16-Sep-23	100 S5SDBC1710	S5SDBC1074			-		
										<u>_i</u>		
S5SDBC1074	Installation of Electrical System - Lighting and Small Power Accessories	30 09-Jun-23	08-Jul-23	17-Sep-23	16-Oct-23	100 S5SDBC1072	S5SDBT1120					
\$5\$DBC1005	Installation of Control Cable Laying	40 29-Jul-23	06-Sep-23	01-Jan-23	00-Fob-23	-209 S5SDBC1710	\$5\$DBC1730					
	Installation of Electrical System - Cable Containment	30 10-Apr-23	09-May-23	13-Sep-22		-209 S5SDBC1710		-				
	Installation of SCADA System / Control Monitoring System	50 12-Oct-23	30-Nov-23	10-Feb-23		-244 S5SDBC1265,	-					
Ground Floor	Installation of SOADA System / Control Monitoring System	445 06-Jun-22 A		06-May-22		-3	333DD11100	<u> </u>				
G. G. H. H. 100.		440 00 0an 227	10 001 20	00 Way ZZ	10 001 20	o e						
Mechanical		363 06-Jun-22 A	29-Jul-23	18-Sep-22	30-Apr-23	-90						
S5SDBC1430	Installation of A-Frame (Effected by NCE-PMI-0325)	3 06-Jun-22 A	06-Jun-22 A	18-Sep-22	18-Sep-22	S5SDBC1670	S5SDBC1560,	 				
	Installation of Monorail LA-01-01	60 25-Dec-22*	22-Feb-23	•	23-Jan-23	-30 S5SDBC1550,		1				
	Installation of Silo & Conveyor	60 31-Mar-23	29-May-23	15-Feb-23		-44 S5SDBP1225.	S5SDBT1068	 -		<u></u>		
	Installation of Process Pipe	90 01-Apr-23	29-Jun-23			-150 S5SDBP1555,	S5SDBT1100.	1		_		
	Installation of Sludge Thickening Polymer Preparation Tanks	45 01-Feb-23	17-Mar-23	17-Dec-22		-46 S5SDBP1315	S5SDBT1058,	1				
	Installation of THP Feed Pumps (4 nos.)	7 03-Mar-23	09-Mar-23	24-Jan-23		-38 S5SDBP1235	S5SDBT1080,	1				
	Installation of PS Screen Feed Pumps (3 nos.)	7 15-Jan-23	21-Jan-23	17-Jan-23		2 S5SDBP1145	S5SDBT1080,	1				
	Installation of Sludge Thickening Polymer Transfer Pumps (2 nos.)	7 16-Mar-23	22-Mar-23	24-Jan-23			· ·	 				
	Installation of Instruments	60 31-May-23	29-Jul-23	01-Jan-23		-150 S5SDBC1460	S5SDBT1181	1		<u> </u>		
	Installation of DOU Ductworks	45 06-Mar-23	19-Apr-23	17-Mar-23		11 S5SDBP1585	S5T1060	1		,		
	Position of Sludge Skips and Installation of Hydraulic System	14 15-Jul-23	28-Jul-23	17-Apr-23	· ·		S5T1060	1				
Electrical	, , , , , , , , , , , , , , , , , , ,	310 14-Dec-22	19-Oct-23	06-May-22		-3		<mark>-</mark>				
				-				<u> </u>				
S5SDBC1172	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	50 23-Dec-22	10-Feb-23	29-Jul-23	16-Sep-23	218 S5SDBC1680	S5SDBC1174					
959DPC1174	Installation of Electrical System - Lighting and Small Power Accessories	30 11-Feb-23	12-Mar-23	17-Sep-23	16 Oot 22	218 S5SDBC1172	CECUPT1120					
3330001174	Installation of Electrical System - Eighting and Small Flower Accessories	30 11-1 60-23	12-IVIA1-23	17-06p-20	10-001-23	210 3330001172	333DB11120					
S5SDBC1195	Installation of Control Cable Laying	30 12-Jun-23	11-Jul-23	21-Jan-23	19-Feb-23	-142 S5SDBC1680	S5SDBC1700	1		•		
	Installation of Power Cable Laying and Termination	60 24-Jun-23	22-Aug-23	27-Dec-22	24-Feb-23	-179 S5SDBC1520,	S5SDBT1060	1		—		
	TX Room Installation	90 15-Jul-23	12-Oct-23	13-Nov-22	10-Feb-23	-244 S5SDBP1620	S5SDBT1190	1				
S5SDBC1520	LV Switchroom Installation	60 16-May-23	14-Jul-23	28-Oct-22	26-Dec-22	-200 S5SDBC1670,	S5SDBT1090.					
	Installation of Electrical System - Cable Containment	30 14-Dec-22	12-Jan-23			-222 S5SDBC1480,		1				
S5SDBC1700	Installation of SCADA System / Control Monitoring System	40 10-Sep-23	19-Oct-23	-		-202 S5SDBP1180,		1		•		
First Floor	, , ,	359 07-Dec-22	30-Nov-23		16-Oct-23							
Mechanical		005 07 Dec 00	00 Ave 00	10 100	15 Am 00	105						
Wechanical		265 07-Dec-22	28-Aug-23	19-Aug-22	15-Apr-23	-135						
S5SDBC1312	Installation of Mixer for Digested Sludge Holding Tank	10 10-Apr-23	19-Apr-23	07-Mar-23	16-Mar-23	-34 S5SDBP1465,	S5SDBT1160					
S5SDBC1314	Installation of Mixer for PS holding tank	10 31-May-23	09-Jun-23	07-Mar-23	16-Mar-23	-85 S5SDBP1195,	S5SDBT1160					
S5SDBC1325	Installation of Sludge Thickening Polymer Dosing Pumps (5 nos.)	7 22-Jan-23	28-Jan-23	10-Mar-23		47 S5SDBP1355,	S5SDBT1080,					
S5SDBC1530	Installation of EOT Crane LA-01-03	60 17-Jan-23*	17-Mar-23	18-Sep-22		-121 S5SDBC1430,	S5SDBC1570					
S5SDBC1540	Installation of EOT Crane LA-01-02	60 07-Dec-22*	04-Feb-23	19-Aug-22	17-Oct-22	-110 S5SDBP1545,	S5SDBC1580,					
	Installation of Monorail LA-01-04	30 25-Dec-22*	23-Jan-23	25-Nov-22	24-Dec-22	-30 S5SDBP1535,	S5SDBC1440					
	Installation of Sludge Dewatering / Thickening Polymer Dilution Tanks	45 27-Apr-23	10-Jun-23	21-Jan-23		-96 S5SDBC1430,	S5SDBT1058,			-		
	Installation of Sludge Thickening Centrifuges (4 nos.)	90 18-Mar-23	15-Jun-23	17-Nov-22	14-Feb-23	-121 S5SDBC1530,	S5SDBT1032,			_		
	Installation of Sludge Dewatering Centrifuges (3 nos)	90 05-Feb-23	05-May-23	17-Dec-22		-50 S5SDBC1540,	_	_		1		
	Installation of Screen Press	30 05-Feb-23	06-Mar-23	05-Feb-23	06-Mar-23	0 S5SDBC1430,	S5SDBT1170,	1				
	Installation of Mixer for Polymer Tank	10 11-Jun-23	20-Jun-23	07-Mar-23		-96 S5SDBP1335,	S5SDBT1160					
	Installation of Sludge Dewatering Polymer Dosing Pumps (4 nos.)	7 15-Jan-23	21-Jan-23	03-Mar-23		47 S5SDBP1355	S5SDBT1080,	1	0			
	Installation of Process Pipe	120 01-Apr-23	29-Jul-23	17-Nov-22		-135 S5SDBP1555,	S5SDBT1100,	4				
	Installation of Instruments	45 15-Jul-23	28-Aug-23	02-Mar-23		-135 S5SDBC1620	S5SDBT1181	_		-		
Electrical		305 30-Jan-23	30-Nov-23	05-Jun-22	16-Oct-23	-45						
S5SDBC1372	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	45 01-Mar-23	14-Apr-23	03-Aug-23	16-Sep-23	155 S5SDBC1740	S5SDBC1374					
S5SDBC1374	Installation of Electrical System - Lighting and Small Power Accessories	30 15-Apr-23	14-May-23	17-Sep-23	16-Oct-23	155 S5SDBC1372	S5SDBT1120					
		CO 04 Mari 00	00 1.4.00	06 Na: 00	04 law 00	170 0500001000	SESDEC1005					
S5SDBC1375	LV Switchroom Installation	60 24-May-23	22-Jul-23	26-Nov-22	24-Jan-23	-179 S5SDBP1223	S5SDBC1225		<u> </u>		<u> </u>	<u> </u>
	File Name: DE/2018/03 RP R28					Contract No.	DE /2019 /02	1	Date	Revision	Checked	Approved

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 39 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

	Installation of Plumbing System - Branch Pipework Installation of Plumbing System - Sanitary Fitting File Name: DE/2018/03 RP R28 Remaining Work	30 10-May-23	09-May-23 08-Jun-23	24-Oct-23 03-Dec-23		207 S5SDBC1		1	Date 31-Jul-22	Revision Rev.24	Checked	Appro
	·											
	·	40 31-IVIAI-23	09-May-23									1 1
		40 31-Mar-23	00 May 00	04 0+ 00	02-Dec-23	207 S5SDBC1	50 S5SDBC1830					
						S5SDBC1	20					
S5SDBC1750	Installation of Plumbing System - Main Pipework	30 11-Mar-23	09-Apr-23	04-Oct-23	02-Nov-23	207 S5SDBC1						
S5SDBC1640	Installation of MVAC System - Ceiling Mount Equipment, Main Ductwork and Pipework	30 09-Feb-23	10-Mar-23	19-Jul-23	17-Aug-23	160 S5SDBC1 S5SDBC1			- -			
050555			10			100 2-2	S5SDBC1640					ļ
2002001030	industrial of o oyuth multi perion	20 10-0411-23	20 0aii 20	10-11/10y-22	O- OUIT-ZZ	200 0000001	S5SDBC1740,					
S5SDBC1364 S5SDBC1630	Installation of MVAC System - Air Grills & Diffuser Installation of FS System - Main Pipework	30 10-Apr-23 20 10-Jan-23	09-May-23 29-Jan-23	17-Sep-23		160 S5SDBC1:						
QEQDD01001	Installation of MAAC System. Air Crilla 9 Diffuser	20 10 4 00	00 May 00	17 00= 00	16 Oct 00	160 0500004	60 CECDET1140					
S5SDBC1362	Installation of MVAC System - Wall Mount Equipment, Branch Duct & Pipework	40 01-Mar-23	09-Apr-23	08-Aug-23	16-Sep-23	160 S5SDBC1	40 S5SDBC1364]	•	•		
S5SDBC1354	Installation of FS System - Dropper, Sprinkler Head, Detector & Devices	20 19-Feb-23	10-Mar-23	12-Oct-23	31-Oct-23	235 S5SDBC1	52 S5SDBT1130					
S5SDBC1352	2 Installation of FS System - Branch Pipework, Conduit & Wiring	30 20-Jan-23	18-Feb-23	20-Aug-23	∠1-3 c p-23	215 S5SDBC1	30 S5SDBC1354, S5S1130					
	Installation of EC Contains Preparate Proceeds Constaint CARP 1						00 000000000000000000000000000000000000	<mark></mark>				} <u>-</u>
rst Floor		150 10-Jan-23	08-Jun-23	16-May-22	01-Jan-24							
5SDBC1770	Installation of Lift	120 13-Mar-23	10-Jul-23	01-Sep-23	29-Dec-23	172 S5SDBP12 S5WS2C1						
		00 10-0411-20	00100-20	55 / lug-25	00 00p-20	S5SDBC1						
S5SDBC1690	Installation of Plumbing System - Main Pipework	30 10-Jan-23	08-Feb-23	05-Aug-23	03-Sep-23	207 S5SDBC14	80. S5SDBC1720.					
						S5SDBC10 S5S1010						
5SDBC1500	Generator & Fuel Room Installation	90 09-Aug-23	06-Nov-23	18-Nov-22	15-Feb-23	-264 S5SDBP12	00, S5SDBT1078	1				
							S5SDBC1690, S5SDBC1420					
5SDBC1490	Installation of MVAC System - Ceiling Mount Equipment, Main Ductwork and Pipework	30 11-Dec-22	09-Jan-23	20-May-23	18-Jun-23	160 S5SDBC1						
							S5SDBC1410					
							S5SDBC1690, S5SDBC1152,					
1480 טטטטר	III Staliation of Po System - Ivialit Pipework	20 21-NOV-22	10-DEC-22	27-Mar-22	10-Apr-22	-239 333015011	S5SDBC1680,					
	Installation of Plumbing System - Sanitary Fitting Installation of FS System - Main Pipework	30 11-Mar-23 20 21-Nov-22	09-Apr-23 10-Dec-22	03-Dec-23		267 S5SDBC1				-		
	Installation of Plumbing System - Branch Pipework	40 30-Jan-23	10-Mar-23	24-Oct-23		267 S5SDBC1		4				
	Installation of MVAC System - Air Grills & Diffuser	30 09-Feb-23	10-Mar-23	17-Sep-23		220 S5SDBC1			•			
33301102			33 1 00-20	55 / lug-25	10 30p-20		55 5555501104					
5SDBC1154 5SDBC1162	7 11 1 1	20 31-Dec-22 40 31-Dec-22	08-Feb-23	08-Aug-23		285 S5SDBC1						 -
59DRC1154	Installation of FS System - Dropper, Sprinkler Head, Detector & Devices	20 31-Dec-22	19-Jan-23	12-Oct-23	31-Oct-23	285 S5SDBC1	S5S1130 52 S5SDBT1130					
5SDBC1152	Installation of FS System - Branch Pipework, Conduit & Wiring	30 01-Dec-22	30-Dec-22	23-Aug-23	21-Sep-23	265 S5SDBC1	80 S5SDBC1154,]				
ound Floor		351 21-Nov-22	06-Nov-23		01-Jan-24	56						
round Floor		251 01 Nov. 00	06 Nov 00	27 Mar 20	01 los 04	S5SDBC1	20 S5SDBC1750	-				
55SDBC1720	Installation of Plumbing System - Main Pipework	30 09-Feb-23	10-Mar-23	04-Sep-23	03-Oct-23	207 S5SDBC1		1				
						3305501	S5SDBC1720					
55SDBC1420	Installation of MVAC System - Ceiling Mount Equipment, Main Ductwork and Pipework	30 10-Jan-23	08-Feb-23	19-Jun-23	18-Jul-23	160 S5SDBC14 S5SDBC14						
			00 5 :	10.	10.1	100 05055		4		ļļļ		ļļļ
							S5SDBC1710, S5SDBC1630					
35SDBC1410	Installation of FS System - Main Pipework	30 11-Dec-22	09-Jan-23	16-Apr-22	15-May-22	-239 S5SDBC10 S5SDBC10			- - -			
	Installation of Plumbing System - Sanitary Fitting	30 10-Apr-23	09-May-23			237 S5SDBC1		4		-		
	2 Installation of Plumbing System - Branch Pipework	40 01-Mar-23	09-Apr-23	24-Oct-23		237 S5SDBC1						
55SDBC1064	Installation of MVAC System - Air Grills & Diffuser	30 11-Mar-23	09-Apr-23	17-Sep-23	16-Oct-23	190 S5SDBC1	62 S5SDBT1140					
JJJDD 1002	mataliation onvivae system - vvaliniount Equipment, prantin Duct & ripework	40 30-0811-23	10-IVIa1-23	vo-Aug-23	10-3 c p-23	190 3330001	20 0000001004		-			
	Installation of FS System - Dropper, Sprinkler Head, Detector & Devices Installation of MVAC System - Wall Mount Equipment, Branch Duct & Pipework	30 09-Feb-23 40 30-Jan-23	10-Mar-23 10-Mar-23	02-Oct-23 08-Aug-23		235 S5SDBC10 190 S5SDBC10		1		<u> </u>		
ECDBO10E1	Installation of EC System Drappay Carinklay Lload Detector 9 Devices	20 00 F-h 00	10 Mar 00	00 04 00	21 Oct 00	225 0500004	S5S1130					
S5SDBC1052	Installation of FS System - Branch Pipework, Conduit & Wiring	40 31-Dec-22	08-Feb-23	13-Aug-23	21-Sep-23	225 S5SDBC1						
sement		150 11-Dec-22	09-May-23	16-Apr-22	01-Jan-24	237						
IIIStaliauOII		351 21-Nov-22	06-Nov-23	27-Mar-22	01-Jan-24	36						
S5SDBC1800	0 Installation of Control Cable Laying	30 07-Sep-23	06-Oct-23	11-Jan-23			40 S5SDBC1760	_				
	0 Installation of SCADA System / Control Monitoring System	50 12-Oct-23	30-Nov-23	10-Feb-23		-244 S5SDBC1				ļ		<u> </u>
S5SDBC1740	0 Installation of Electrical System - Cable Containment	30 30-Jan-23	28-Feb-23	05-Jun-22	04-Jul-22	-239 S5SDBC1	80, S5SDBT1060,					
		Duration				Float		J 3 J J J J A J J J J S				
	Activity Name	Original Early Start	Early Finish	Late Start	Late Finish	Total Predecessor	Successors	9 2020 2021	2022	2023	2024	2025

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 40 of 58

Critical Activity

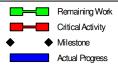
Milestone

Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9
Testing and Co	nmissioning	244 01-May-23	30-Dec-23	27-Dec-22	27-Feb-24	59			
S5SDBT1032	SAT for Sludge Thickening Cnetrifuge	30 01-Nov-23	30-Nov-23	01-Apr-23	30-Apr-23	-214	S5SDBT1060, S5SDBC1570, S5SDBT1191	S5T1060	
S5SDBT1044	Wet Test for Pumps (excluded FS Water Pumps and Process Water Pumps)	7 08-Nov-23	14-Nov-23	17-Apr-23	23-Apr-23	-205	S5SDBT1080, S5SDBT1060	S5SDBT1045	
S5SDBT1045	Functional Check for Pumps (excluded FS Water Pumps and Process Water Pumps)	7 15-Nov-23	21-Nov-23	24-Apr-23	30-Apr-23	-205	S5SDBT1044, S5SDBT1060	S5T1060	
S5SDBT1047	Wet Test for Pumps (FS Water Pumps and Process Water Pumps)	7 08-Nov-23	14-Nov-23	17-Nov-23	23-Nov-23	9	S5SDBT1080, S5SDBT1060, S5SDBT1191	S5SDBT1048	
S5SDBT1048	Functional Check for Pumps (FS Water Pumps and Process Water Pumps)	7 15-Nov-23	21-Nov-23	24-Nov-23	30-Nov-23	9	S5SDBT1060, S5SDBT1047	S5S1220	
S5SDBT1058	SAT for Polymer System	30 01-Nov-23	30-Nov-23	01-Apr-23	30-Apr-23	-214	S5SDBC1560, S5SDBC1470, S5SDBC1265, S5SDBT1060	S5T1060	
S5SDBT1060	Ready for Power Energisation - LV	5 27-Oct-23	31-Oct-23	25-Feb-23	01-Mar-23	-244	S5SDBC1740, S5SDBT1090, S5SDBC1225, S5SDBT1190	S5SDBT1070, S5SDBT1110, S5SDBT1032, S5SDBT1048, S5SDBT1047, S5SDBT1058, S5SDBT1120, S5SDBT1120, S5SDBT1130, S5SDBT1140, S5SDBT1150, S5SDBT1150, S5SDBT1150, S5SDBT1180, S5SDBT1180, S5SDBT1181, S5SDBT1044, S5SDBT1044, S5SDBT1045, S5SDBT1045, S5SDBT1080, S5SDBT11080, S5SDBT1191	
S5SDBT1068	SAT for Conveyor	15 01-Nov-23	15-Nov-23	16-Apr-23	30-Apr-23	-199	S5SDBC1450, S5SDBT1060	S5T1060	
S5SDBT1070	SAT for Sludge Dewatering Centrifuges	30 01-Nov-23	30-Nov-23	01-Apr-23	30-Apr-23	-214		S5T1060	
S5SDBT1078	SAT of Emergency Generator System	15 07-Nov-23	21-Nov-23	16-Feb-23	02-Mar-23	-264	S5SDBC1500	S5S1280	
S5SDBT1080	Dry Test for Pumps	7 01-Nov-23	07-Nov-23	10-Apr-23	16-Apr-23	3 -205	S5SDBC1790, S5SDBC1115, S5SDBC1115, S5SDBC1135, S5SDBC1145, S5SDBC1165, S5SDBC1175, S5SDBC1185, S5SDBC1810, S5SDBC1810, S5SDBC1610, S5SDBC1610, S5SDBC1105, S5SDBC1105,	S5SDBT1044, S5SDBT1047	
S5SDBT1090	SAT for Switchboard	60 15-Jul-23	12-Sep-23	27-Dec-22	24-Feb-23	-200	S5SDBC1520	S5SDBT1060	<u> </u>
S5SDBT1100	Pipe Pressure Test	120 01-May-23	28-Aug-23	01-Jan-23	30-Apr-23	-120	S5SDBC1620, S5SDBC1460, S5SDBC1400	S5T1060	
S5SDBT1110	SAT for Lift	60 01-Nov-23	30-Dec-23	30-Dec-23	27-Feb-24	59	S5SDBC1770, S5SDBT1060	S5S1090	
S5SDBT1120	SAT of Electrical System (BS)	45 01-Nov-23	15-Dec-23	17-Oct-23	30-Nov-23	-15	S5SDBC1174, S5SDBC1074, S5SDBC1374, S5SDBT1060	S5S1220	

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 41 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ivity ID	Activity Name	Original Early Duration	Start Early Finis	h Late Star	t Late Finish	h Tota Floa	Predecessors	Successors	9 2020 2021			
S5SDBT1130	SAT of FS System	30 01-1	lov-23 30-Nov-	23 01-Nov-23	30-Nov-23	3 (S5SDBC1354,	S5S1220		-1	5373311111111111	11222222221233333333333
							S5SDBC1154, S5SDBC1054, S5SDBT1060					
S5SDBT1140	SAT of MVAC System	45 01-1	lov-23 15-Dec-	23 17-Oct-23	30-Nov-23	3 -15	5 S5SDBC1364,	S5S1220	1		-	
							S5SDBC1164, S5SDBC1064, S5SDBT1060					
S5SDBT1150	SAT of Plumbing System	30 01-1	Nov-23 30-Nov-	23 02-Jan-24	1 31-Jan-24	1 62	S5SDBC1084, S5SDBC1184, S5SDBC1830, S5SDBT1060	S5S1160				
S5SDBT1160	SAT of Mixer	45 01-1	Nov-23 15-Dec-	23 17-Mar-23	30-Apr-23	3 -229	9 S5SDBC1600, S5SDBC1312, S5SDBC1314, S5SDBC1285, S5SDBT1060	S5T1060			-	
S5SDBT1170	SAT of Screen Press	15 01-1	Nov-23 15-Nov-	23 16-Apr-23	30-Apr-23	3 -199	9 S5SDBC1590, S5SDBT1060	S5T1060	-			
S5SDBT1180	SAT of SCADA, PMS, CMMS and IDMS	60 01-N	Nov-23 30-Dec-	23 02-Mar-23	30-Apr-23	3 -244	4 S5SDBC1760, S5SDBC1700, S5SDBC1730, S5SDBT1060	S5T1060			-	
S5SDBT1181	SAT of Instrumentation	60 01-1	Nov-23 30-Dec-	23 02-Mar-20	30-Apr-23	3 -244	4 S5SDBC1850, S5SDBC1840, S5SDBC1305, S5SDBT1060	S5T1060			-	
S5SDBT1190	SAT for Tranformer	14 13-0	Oct-23 26-Oct-2	23 11-Feb-23	3 24-Feb-23	3 -244	1 S5SDBC1510	S5SDBT1060	1			
S5SDBT1191	Permanent Power ready for T&C	0 01-1	Nov-23	01-Apr-23			\$55DBT1060, \$5W\$2C1120	S5SDBT1032, S5SDBT1047, S5SDBT1070			•	
Combined Heat &	Power Building	919 29-	un-21 A 25-Jan-	24 17-Apr-22	2 31-Jan-24	1 6	6					
Fabrication, FAT 8	& Delivery of Major Plant & Materials	889 29-J	un-21 A 26-Dec-	23 17-Apr-22	2 11-Apr-23	3 -259	9					
S5CHPP1000	Fabrication & Delivery of Pre-Treatment	120 15-4	Aug-22 A 04-Feb-	23 04-Jul-22	2 17-Sep-22	2 -140		S5CHPC1170				
S5CHPP1010	Fabrication of CHP System	270 29-J	un-21 A 06-Apr-2	22 A 15-Sep-22	2 15-Sep-22	2	S2P1070, S2D1610	S5CHPP1020				
S5CHPP1020	FAT for CHP Generators	14 07-4	Apr-22 A 30-Apr-2	22 A 15-Sep-22	2 15-Sep-22	2	S5CHPP1010	S5CHPP1030				
S5CHPP1030	Delivery of CHP Generators		//ay-22 A 14-Jul-2	·	2 15-Sep-22			S5CHPC1050				
S5CHPP1040	Fabrication & Delivery of Gas Detection System	150 30-3	ul-23 26-Dec-	23 13-Nov-22	2 11-Apr-23	-259	9 S2D2000, PL1020	S5CHPC1120, S5CHPC1250				
S5CHPP1050	Fabrication & Delivery of LV Switchboard for G/F	141 07-1	/lar-23* 25-Jul-2	3 26-Jul-22	2 13-Dec-22	2 -224	1	S5CHPC1145	1	-		
S5CHPP1055	Fabrication & Delivery of LV Switchboard for 1/F	134 21-F	eb-23* 04-Jul-2	3 02-Aug-22	2 13-Dec-22	2 -203	3	S5CHPC1260		•		
S5CHPP1060	Fabrication & Delivery of Lifting Appliances	90 24-4	Aug-22 A 31-Dec-	22 07-May-22	2 16-Jun-22	2 -198	3	S5CHPC1030, S5CHPC1160, S5CHPC1040				
S5CHPP1070	Fabrication & Delivery of Pipeworks & Associated Valves	45 21-1			2 17-Sep-22	2 -109	S5P1010	S5CHPC1070, S5CHPC1200				
S5CHPP1080	Delivery of Control & Monitoring System / SCADA System	360 01-J		·	2 11-Apr-23		9	S5CHPC1120, S5CHPC1250				
Installation		431 21-1	lov-22 25-Jan-2	24 04-Jun-22	2 31-Jan-24	1 6	8					
S5CHPC1000	Access to CHP Building (Impacted by EWN-0314)	1 21-1			2 04-Jun-22			S5CHPC1020				
S5CHPC1010	Access to CHP Building (Impacted by EWN-0314-1)	1 21-1			2 04-Jun-22			S5CHPC1020	4			
S5CHPC1020	Mobilisation	12 22-1	Nov-22 03-Dec-	22 05-Jun-22	2 16-Jun-22	2 -170	S5S1020,	PL1550, S5CHPC1030, S5CHPC1040, S5CHPC1080, S5CHPC1130, S5CHPC1140				
E&M Installation	<u>, </u>	390 01-J	an-23 25-Jan-	24 17-Jun-22	2 11-May-23	-259	9					
Ground Floor		390 01-J	an-23 25-Jan-	24 17-Jun-22	2 11-May-23	3 -259						
	File Name: DE/2018/03 RP R28 Remaining Work					<u> </u>	ontract No.	DE /2019 /03	<u> </u>	Date	Revision	Checked Approved
	Lavout: DE1803 RP (Nov 2022) - Critical Activity					٠	ontract NO.	DE/ 2010/03		31-Jul-22	Rev.24 L	T KM

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 42 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9
S5CHPC1030	Installation of EOT Crane LA-04-01	90 01-Jan-23	31-Mar-23	17-Jun-22	14-Sep-22	-198	S5CHPC1020,	S5CHPC1050	1
SECUDO1040	Installation of Monorail LA-04-02 (total 3nos.)	60 01-Jan-23	01-Mar-23	15 Jul 22	10 Can 00	170	S5CHPP1060 S5CHPC1020,	SECUDO1160	
S5CHPC1040	III Staliation of Monoral EA-04-02 (total Shos.)	60 01-Jan-23	UT-IVIAT-23	15-Jul-22	12-3ep-22	-170	S5CHPP1060	S5CHPC1060	
S5CHPC1050	Installation of CHP System - Mechanical Work	150 01-Apr-23	28-Aug-23	15-Sep-22	11-Feb-23	-198		S5CHPC1100, S5CHPT1030, S5CHPC1270	
S5CHPC1060	Installation of Steam Boiler System - Mechanical Work	90 22-Jan-23	21-Apr-23	05-Aug-22	02-Nov-22	-170	S5CHPC1040	S5CHPC1070, S5CHPC1150, S5CHPC1170, S5CHPT1050	
S5CHPC1070	Installation of pipework	180 22-Jan-23	20-Jul-23	18-Sep-22	16-Mar-23	-126	S5CHPC1060, S5CHPP1070	S5CHPT1000	
S5CHPC1100	Installation of Electrical System	120 15-Jul-23	11-Nov-23	01-Jan-23	30-Apr-23	-195	S5CHPC1090, S5CHPC1050, S5P1050	S5CHPC1120, S5CHPT1050, S5CHPT1030	
S5CHPC1120	Installation of SCADA System / Control Monitoring System / Gas Detection System / CCTV	90 28-Oct-23	25-Jan-24	11-Feb-23	11-May-23	-259	S5CHPC1100, S5CHPP1040, S5CHPP1080	S5T1100, S5T1000, S5T1010, S5T1020, S5T1030	
S5CHPC1130	Transfomers Room Installation	120 12-Apr-23	09-Aug-23	15-Oct-22	11-Feb-23	-179	S5WS2P1020, S5CHPC1020	S5CHPT1020, S5CHPC1260, S5CHPT1010	
S5CHPC1140	HV Switchroom Installation	120 29-Jan-23	28-May-23	14-Nov-22	13-Mar-23	-76	S5CHPC1020, S5WS2P1080	S5CHPT1020, S5CHPT1010	
S5CHPC1145	LV Switchroom Installation	90 26-Jul-23	23-Oct-23	14-Dec-22	13-Mar-23	-224		S5CHPT1010, S5CHPT1020	
S5CHPC1150	Diesel Storage & Pump Room Installation	150 23-Mar-23	19-Aug-23	04-Oct-22	02-Mar-23	-170	S5CHPC1060	S5S1280	
First Floor		355 05-Feb-23	25-Jan-24	18-Sep-22	11-May-23	-259			
S5CHPC1160	Installation of Monorail / Davit LA-04-03 to LA-04-10 (total 8nos.)	90 02-Mar-23	30-May-23	17-Nov-22	14-Feb-23	-105	S5CHPC1040, S5CHPP1060	S5CHPC1170	
S5CHPC1170	Installation of Biogas Pre-treatment System - Mechanical Work	150 05-Feb-23	04-Jul-23	18-Sep-22	14-Feb-23	-140	S5CHPC1160,	S5CHPC1200, S5CHPC1230, S5CHPT1040	
S5CHPC1200	Installation of pipework	180 05-Feb-23	03-Aug-23	18-Sep-22	16-Mar-23	-140	S5CHPC1170, S5CHPP1070	S5CHPT1000	
S5CHPC1230	Installation of Electrical System	120 06-May-23	02-Sep-23	12-Jan-23	11-May-23	-114	S5CHPC1170, S5P1050	S5CHPC1250, S5CHPT1040	
	Installation of SCADA System / Control Monitoring System / Gas Detection System / CCTV	90 28-Oct-23	25-Jan-24	11-Feb-23	11-May-23	-259	S5CHPC1230, S5CHPP1040, S5CHPP1080	S5T1000.	
S5CHPC1260 Roof S5CHPC1270	LV Switchroom Installation	90 05-Jul-23	02-Oct-23	14-Dec-22	13-Mar-23	-203	S5WS2P1110, S5CHPC1130, S5CHPP1055	S5CHPT1020, S5CHPT1010	
Roof		210 01-Apr-23	27-Oct-23	15-Sep-22	12-Apr-23	-198			
S5CHPC1270	Installation of CHP System - Mechanical Work	180 01-Apr-23	27-Sep-23	15-Sep-22	13-Mar-23	-198	S5CHPC1050	S5CHPT1030, S5CHPC1280, S5CHPC1290	
S5CHPC1280	Installation of Steam Boiler System - Mechanical Work	120 31-May-23	27-Sep-23	14-Nov-22	13-Mar-23	-198	S5CHPC1270	S5CHPT1050, S5CHPC1290	
S5CHPC1290	Installation of Electrical System	60 29-Aug-23	27-Oct-23	12-Feb-23	12-Apr-23	-198	S5CHPC1270, S5CHPC1280, S5P1050	S5CHPT1040, S5CHPT1020	
BS Installation		330 04-Dec-22	29-Oct-23	03-Oct-22	31-Jan-24	94			
Ground Floor		210 04-Dec-22	01-Jul-23	03-Oct-22	31-Jan-24	214			
S5CHPC1080	Installation of FS System	90 04-Dec-22	03-Mar-23	03-Oct-22	31-Dec-22	-62	S5CHPC1020	S5CHPC1090, S5CHPC1110, S5CHPC1210, S5S1220	

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 43 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Tota Float	Predecessors	Successors	9 2020 2021		23	2024	2025
										123 537		1222222222	3333333
S5CHPC1090	Installation of MVAC System	120 04-Mar-23	01-Jul-23	01-Jan-23	30-Apr-23	-62	S5CHPC1080	S5CHPC1100, S5S1220, S5CHPC1220					
S5CHPC1110	Installation of Plumbing System	90 04-Mar-23	01-Jun-23	03-Nov-23	31-Jan-24	244	S5CHPC1080	S5S1160					
First Floor		240 04-Mar-23	29-Oct-23	05-May-23	31-Jan-24	94							
S5CHPC1210	Installation of FS System	90 04-Mar-23	01-Jun-23	05-May-23	02-Aug-23	62	S5CHPC1080	S5CHPC1220, S5CHPC1240, S5S1220					
S5CHPC1220	Installation of MVAC System	120 02-Jul-23	29-Oct-23	03-Aug-23	30-Nov-23	32	S5CHPC1210, S5CHPC1090	S5S1220					
S5CHPC1240	Installation of Plumbing System	90 02-Jun-23	30-Aug-23	03-Nov-23	31-Jan-24	154	S5CHPC1210	S5S1160					
Testing and Comr	missioning	249 21-May-23	24-Jan-24	01-Jan-23	29-Jun-23	-209							
S5CHPT1000	Pipe Pressure Test	120 21-May-23	17-Sep-23	01-Jan-23	30-Apr-23	-140	S5CHPC1200, S5CHPC1070	S5T1100, S5CHPT1030, S5CHPT1040, S5CHPT1050		•	-		
S5CHPT1010	SAT for Transformer & Switchboard	30 24-Oct-23	22-Nov-23	14-Mar-23	12-Apr-23	-224	S5CHPC1260, S5CHPC1140, S5CHPC1130, S5CHPC1145	S5CHPT1020					
S5CHPT1020	Ready for Power Energisation	3 23-Nov-23	25-Nov-23	13-Apr-23	15-Apr-23	-224	S5CHPC1260, S5WS2C1110, S5CHPC1130, S5CHPC1140, S5CHPC11010, S5CHPC1290, S5CHPC1145	S5BIOT1010, S5THPT1010, S5CHPT1040,			1		
S5CHPT1030	SAT for CHP System	60 26-Nov-23	24-Jan-24	01-May-23	29-Jun-23	-209	S5CHPT1020, S5CHPC1050, S5CHPC1100, S5CHPC1270, S5CHPT1000	S5T1100			-		
S5CHPT1040	SAT for Pre-treatment System	45 26-Nov-23	09-Jan-24	16-May-23	29-Jun-23	-194	S5CHPC1170, S5CHPT1020, S5CHPC1230, S5CHPC1290, S5CHPT1000	S5T1100			-		
S5CHPT1050	SAT for Steam Boiler System	60 26-Nov-23	24-Jan-24	01-May-23	29-Jun-23	-209	S5CHPC1060, S5CHPC1100, S5CHPT1020, S5CHPC1280, S5CHPT1000	S5T1100			-		
x Rm & LV Switch	hroom (for UV)	389 21-Nov-22	14-Dec-23	31-May-22	11-May-23	-217	•						
	& Delivery of Major Plant & Materials	296 21-Nov-22	12-Sep-23	31-May-22	25-Feb-23	-100	1						
S5TXRP1000	Fabrication & Delivery of Transformers -UV (Tx 07 & 08)	120 21-Nov-22	20-Mar-23		27-Sep-22			S5TXRC1030					
S5TXRP1010	Fabrication & Delivery of LVSB -UV	141 25-Apr-23*	12-Sep-23	23-Jul-22	10-Dec-22	-276		S5TXRC1040		_			
S5TXRP1020	Fabrication & Delivery of Control & Monitoring System -UV	30 20-Feb-23*	21-Mar-23	27-Jan-23	25-Feb-23	-24	S1D1290, S2P1140	S5TXRC1050		•			
Installation		356 21-Nov-22	11-Nov-23	12-Aug-22	11-May-23	-184							
S5TXRC1000	Access to TX Rm & LV Switchroom (Impacted by EWN-0314)	1 21-Nov-22*	21-Nov-22	12-Aug-22	12-Aug-22	-101		S5TXRC1020					
S5TXRC1010	Access to TX Rm & LV Switchroom (Impacted by EWN-0314-1)	1 21-Nov-22*	21-Nov-22	-	12-Aug-22			S5TXRC1020					
S5TXRC1020	BS Fitting Intallation (at Tx Rm & LV Switchroom)	60 22-Nov-22	20-Jan-23	13-Aug-22	11-Oct-22	-101	AD1100, S5TXRC1000, S5TXRC1010	S5TXRT1010, S5TXRC1030					
S5TXRC1030	E&M Installation of Transfomers in Tx Rm	60 04-Apr-23	02-Jun-23	12-Oct-22	10-Dec-22	-174	S5TXRC1020, S4C1010, S5TXRP1000, S1D1310, S5P1050	S5TXRC1040, S5TXRT1000		-			
				J							<u> </u>	<u> </u>	
	File Name: DE/2018/03 RP R28					<u></u>	ontract No. 1	DE/2018/03			Revision	Checked	Approve
	Layout: DE1902 DD (Nov 2002)						J act 140. I	J L / 2010/ 03		31-Jul-22 Re	ev.24 L	ر k′	M

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 44 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

tivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020 2021	2022 3 J J A J	2023	2024	2025
057/004040	FOM lead to the second of LVOD		44 Nov. 00	44 D 00	00 F-I- 00		OFT/D04000	OFTVDT4040	<u> </u>	123 [3733111111	11112222222	233333333
S5TXRC1040	E&M Installation of LVSB	60 13-Sep-23	11-Nov-23	11-Dec-22	08-Feb-23	-2/6	S5TXRC1030, S5TXRP1010, S5P1050	S5TXRT1010, S5TXRT1000					
S5TXRC1050	Installation of Control & Monitoring System - UV	75 22-Mar-23	04-Jun-23	26-Feb-23	11-May-23		S4C1040, S5TXRP1020, S4C1070, S4C1080	S5T1200, S5T1120, S5T1000, S5T1010, S5T1020, S5T1030, S5T1010, S5T1020, S5T1030, PL1210					
Testing and Com	nmissioning	33 12-Nov-23	14-Dec-23	09-Feb-23	13-Mar-23	-276							
S5TXRT1000	SAT for Transformer & Switchboard	30 12-Nov-23	11-Dec-23	09-Feb-23	10-Mar-23	-276	S5TXRC1040,	S5TXRT1010					
	of the manifold a small board	00 12 1107 20	11 200 20	00 1 00 20	10 1010		S5TXRC1030	CONTINUE					
S5TXRT1010	Ready for Power Energisation	3 12-Dec-23	14-Dec-23	11-Mar-23	13-Mar-23		S5TXRC1020, S5TXRC1040, S5WS2C1060, S5WS2C1040, S5WS2C1130, S5TXRT1000	SC51110, S5SHPT1000, S5DOUT1000, S5PSWT1000			1		
Sludge Digesters	& Distribution Chamber	798 06-Nov-21 A	27-Jan-24	17-Apr-22	31-Jan-24	4							
Fabrication, FAT 8	& Delivery of Major Plant & Materials	766 06-Nov-21 A	26-Dec-23	17-Apr-22	11-Apr-23	-259							
S5DIGP1000	Fabrication & Delivery of Sludge Digestion System	180 06-Nov-21 A	30-Dec-22	22-Jul-22	30-Aug-22	-122	S2P1020, S2D1450	S5DIGC1210					
S5DIGP1010	Fabrication & Delivery of FRP Walkway / Cover	90 01-Mar-22 A	14-Dec-22	24-Jul-22	16-Aug-22	-120	S2P1020	S5DIGC1040					
S5DIGP1020	Fabrication & Delivery of Pipeworks & Associated Valves	60 27-Nov-22	25-Jan-23	05-Aug-22	03-Oct-22	-114	S5P1010	S5DIGC1110, S5DIGC1150, S5DIGC1190, S5DIGC1250					
S5DIGP1050	Delivery of Control & Monitoring System / SCADA System	360 01-Jan-23*	26-Dec-23	17-Apr-22	11-Apr-23	-259		S5DIGC1270					
Installation		431 21-Nov-22	25-Jan-24	02-Aug-22	31-Jan-24	6							
S5DIGC1000	Access to Sludge Digesters & Distribution Chamber (Impacted by EWN-0314)	1 21-Nov-22*	21-Nov-22	02-Aug-22	02-Aug-22	-111		S5DIGC1030					
S5DIGC1010	Access to Sludge Digester No.1 & Distribution Chamber (Impacted by EWN-0314-1)	1 21-Nov-22*	21-Nov-22	02-Aug-22	02-Aug-22	-111		S5DIGC1030					
S5DIGC1020	Access to Sludge Digesters - Remaining (Impacted by EWN-0314-1)	1 21-Nov-22*	21-Nov-22	03-Nov-22	03-Nov-22	-18		S5DIGC1050	1				
S5DIGC1030	Mobilisation	14 22-Nov-22	05-Dec-22	03-Aug-22	16-Aug-22		AD1080, S5DIGC1000, S5DIGC1010	S5DIGC1210, S5DIGC1040		•			
E&M Installation		407 15-Dec-22	25-Jan-24	17-Aug-22	11-May-23	-259							
FRP Walkway / Co	over Installation	166 15-Dec-22	29-May-23	17-Aug-22	15-Apr-23	-44							
S5DIGC1040	Installation of Working Platform for Digester 1 (Roof)	14 15-Dec-22	28-Dec-22	17-Aug-22	30-Aug-22		AD1080, S5DIGP1010, S5DIGC1030	SC51110, PL1210, PL1310, S5DIGC1050, S5DIGC1090, S5DIGC1210		E.			
S5DIGC1050	Installation of Working Platform for Digester 3 (Roof)	14 29-Dec-22	11-Jan-23	04-Nov-22	17-Nov-22	-55	S5DIGC1040, S5DIGC1020	S5DIGC1060, S5DIGC1130					
S5DIGC1060	Installation of Working Platform for Digester 4 (Roof)	14 12-Jan-23	25-Jan-23	29-Nov-22	12-Dec-22		S5DIGC1050	S5DIGC1070, S5DIGC1170					
S5DIGC1070	Installation of Working Platform for Distribution Chamber & Overflow Chamber	110 26-Jan-23	15-May-23	13-Dec-22	01-Apr-23	-44	S5DIGC1060	S5DIGC1080		-	-		
S5DIGC1080	Installation of Working Platform for Digester 2 (Roof)	14 16-May-23	29-May-23	02-Apr-23	15-Apr-23	-44	S5DIGC1070	S5DIGT1020			•		
Sludge Digester 1	1	73 29-Dec-22	11-Mar-23	06-Sep-22	17-Nov-22								
S5DIGC1090	Installation of Sludge Mixer (4 nos.)	14 29-Dec-22	11-Jan-23	06-Sep-22	19-Sep-22	-114	S5DIGC1040	S5DIGC1100					
S5DIGC1100	Installation of Motor with Belt adjustment	14 12-Jan-23	25-Jan-23				S5DIGC1090	S5DIGC1110		•			
S5DIGC1110	Installation of Pipework, Valve, Inpsection Window, Telescopic Valve & Instruments	45 26-Jan-23	11-Mar-23	04-Oct-22	17-Nov-22	-114	S5DIGC1100, S5DIGP1020	S5DIGC1120, S5DIGC1130					
	File Name: DE/2018/03 RP R28					C =	mtua et Ala	DE /2010 /02	•	Date	Revision	Checked	Approved
	Layout: DE1803 RP (Nov 2022) - Critical Activity			Shek W	Vır Hıri Ff			DE/2018/03 Plant - Mai	n Works Stage 1	31-Jul-22	Rev.24	LT	KM
	■ 1 ' · · · · · · · · · · · · · · · · · ·	1		JIICK V	- G IIGI LI	u C I		. IGIT - IVIAL	Troins stuge I	31-Aug-22	Rev.25	11.1	kм

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 45 of 58

Hemaning Work

Critical Activity

Milestone

Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

Part	tivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Predecessors Float	Successors	9 2020 2021	2022 J J J A J J	2023	2024 2025 2
Company Comp												11122222222 2 2 2 3 3 3 3 3 3 3 3 3 3 3
Colored Colo	S5DIGC1120	Installation of Electrical System	45 26-Jan-23	11-Mar-23	04-Oct-22 1	17-Nov-22				-		
SSDC:100 Include: roll & and - Bright State Formation 4 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Sludge Digester 3	'	73 12-Mar-23	23-May-23	18-Nov-22 2	29-Jan-23	-114					
Septication Industrial Plane of Space Septication	S5DIGC1130	Installation of Sludge Mixer (4 nos.)	14 12-Mar-23	25-Mar-23	18-Nov-22 0	01-Dec-22	S5DIGC1110,	S5DIGC1140				
2006010 Problems of children system	S5DIGC1140	Installation of Motor with Belt adjustment	14 26-Mar-23	08-Apr-23	02-Dec-22 1	15-Dec-22	-114 S5DIGC1130	S5DIGC1150			•	
Secretary Secr	S5DIGC1150	Installation of Pipework, Valve, Inpsection Window, Telescopic Valve & Instruments	45 09-Apr-23	23-May-23	16-Dec-22 2	29-Jan-23					_	
SCOCK 10 Incidence of largest bear No. 02 Incidence In	S5DIGC1160	Installation of Electrical System	45 09-Apr-23	23-May-23	16-Dec-22 2	29-Jan-23	-114 S5DIGC1150,	S5DIGC1170,			-	
Society December of History et al. Marketine February Society Soci	Sludge Digester 4		73 24-May-23	04-Aug-23	30-Jan-23	12-Apr-23	-114					
STOCCHION Insulation of Process Option STOCCHION	S5DIGC1170	Installation of Sludge Mixer (4 nos.)	14 24-May-23	06-Jun-23	30-Jan-23 1	12-Feb-23	S5DIGC1160,	S5DIGC1180			0	
	S5DIGC1180	Installation of Motor with Belt adjustment	14 07-Jun-23	20-Jun-23	13-Feb-23 2	26-Feb-23	-114 S5DIGC1170	S5DIGC1190				
Description Constitution Constitution Floring Strokes 10 20 20 20 20 20 20 20	S5DIGC1190	Installation of Pipework, Valve, Inpsection Window, Telescopic Valve & Instruments	45 21-Jun-23	04-Aug-23	27-Feb-23	12-Apr-23	-114 S5DIGC1180, S5DIGP1020	S5DIGC1200			-	
## STREETIFFE Holdstorn of Surge Residucing Auropa (6 min) ## STREETIFFE Holdstorn of Surge Residucing Auropa (6 min) ## STREETIFFE Holdstorn of Hol	S5DIGC1200	Installation of Electrical System	45 21-Jun-23	04-Aug-23	27-Feb-23	12-Apr-23		S5DIGT1010			-	
SEDIC-1200 Institution of Head Scienting or (if read) II + 00 Jun 22 20 Jun 28 10 Cer 28 20 SEDIC-1200 SEDIC	Distribution Chamb	per	271 30-Apr-23	25-Jan-24	31-Aug-22 1	11-May-23	-259					
Selection Processor Proc	S5DIGC1210	Installation of Sludge Recirculation Pumps (5 nos.)	40 30-Apr-23*	08-Jun-23	31-Aug-22	09-Oct-22	S5DIGP1000, S5DIGC1030,				•	
SECURITION Number of Skipp fragrees Pump (mas) 14 mounts 15 mounts 1	S5DIGC1220	Installation of Heat Exchanger (3 nos.)	14 09-Jun-23	22-Jun-23	10-Oct-22	23-Oct-22	-242 S5DIGC1210	S5DIGC1230				
SSIDICC1280 Vasidation of Section (Wes 3 Informating 2 rest) 7 (07 at 28) 5 (4 at 27) 10 february 2 18 kboz 22 22 at 5 (5)(5)(120) 5 (5)(5)(12												
SSDCC1250 Introduction of Departs A Martinian with Electrical System 150 14-bit 23 10-bes 23 14-bit 24 22 24-pit 24 26 850CC1250 8									1		,	
SSDK21270 Installation of SCADAS P.C. System 90 26-Cal-23 25-Jain-24 11-Reb-23	S5DIGC1250		150 14-Jul-23		14-Nov-22	12-Apr-23	-242 S5DIGC1240, S5DIGP1020	S5DIGC1260,				
SSTICCT-1000 SSTI	S5DIGC1260	Installation of Electrical System	150 14-Jul-23	10-Dec-23	14-Nov-22	12-Apr-23						
Distribution Chamber Schick Spring Spri	S5DIGC1270	Installation of SCADA & PLC System	90 28-Oct-23	25-Jan-24	11-Feb-23 1	11-May-23		S5T1000, S5T1010, S5T1020, S5T1030,				
SSDIGC1280 Institution of NAVC System 90 30-Apr-23 28-Ju-23 01-Sep-23 36 SSDIGC1280 SSSIGC128	BS Installation		240 30-Apr-23	25-Dec-23	04-Jun-23 3	31-Jan-24	37					
SSDIGC1200 Installation of NAVAC System 90 29-Jul 23 28-Oct 23 02-Sep 23 30-Nov-23 35 SSDIGC1300 SSS1220 SSSI220 SSS1220 S	Distribution Chamb	ber Control of the Co	240 30-Apr-23	25-Dec-23	04-Jun-23	31-Jan-24	37					
SSDIGC1300 Installation of Plumbing System 60 27 Cxt-23 25-Dec-23 03-Dec-23 31-Jan-24 37 SSS1120, SSDIGC1290 SSDIGC1290	S5DIGC1280	Installation of FS System	90 30-Apr-23	28-Jul-23	04-Jun-23 0	01-Sep-23	35 S5DIGC1210	S5DIGC1290, S5S1220			-	
Testing and Commissioning	S5DIGC1290	Installation of MVAC System	90 29-Jul-23	26-Oct-23	02-Sep-23 3	30-Nov-23	35 S5DIGC1280	S5DIGC1300, S5S1220				
123 27-Sep-23 27-Jan-24 31-Jan-23 30-Mey-23 -242 SEDIGC1260 SEDIGC1250 SEDIGC1260 SED	S5DIGC1300	Installation of Plumbing System	60 27-Oct-23	25-Dec-23	03-Dec-23	31-Jan-24		S5S1160				
SSDIGT1010 Ready for Power Energisation 3 11-Dec-23 13-Dec-23 13-Apr-23 242 SSDIGC1260, SSDIGC11020, SSDIG	Testing and Comn	nissioning	123 27-Sep-23	27-Jan-24	31-Jan-23 3	30-May-23	-242					
SSDIGT1010 Ready for Power Energisation 3 11-Dec-23 13-Dec-23 13-Apr-23 242 SSDIGC1280, SSDIGC11020, SSDIG	S5DIGT1000	Pipe Pressure Test	75 27-Sep-23	10-Dec-23	31-Jan-23	15-Apr-23	-239 S5DIGC1250	S5DIGT1020	-			
Workshop No. 2 735 29-Nov-21 A 25-Jan-24 26-May-22 16-Apr-25 447	S5DIGT1010	Ready for Power Energisation	3 11-Dec-23	13-Dec-23	13-Apr-23	15-Apr-23	S5DIGC1200, S5DIGC1160, S5DIGC1120, S5WS2C1110,	S5DIGT1020				
Fabrication, FAT & Delivery of Major Plant & Materials S5WS2P1000 Fabrication of 11kV to 380V Transformers 123 14-Jul-22A 13-Jan-23 26-May-22 18-Jul-22 -179 S2P1110 S5WS2P1010 File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) - WBS Page 46 of 58 Revised Programme - as at 20 Nov 2022 Rev26 LT K 31-Jul-22 Rev27 LT K 31-Jul-22 Rev27 LT K 31-Jul-22 Rev27 LT K	S5DIGT1020	SAT for Sludge Digestion System	45 14-Dec-23	27-Jan-24	16-Apr-23 3	30-May-23	S5DIGT1010,	S5T1080			-	
S5WS2P1000 Fabrication of 11kV to 380V Transformers 123 14-Jul-22	Workshop No. 2		735 29-Nov-21 A	25-Jan-24	26-May-22	16-Apr-25	447				-11111	
File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) - WBS Page 46 of 58 File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) - WBS Page 46 of 58 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 Nov 2022 Rev.24 Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities Revised Programme - as at 20 Nov 2022 Rev.26 Ji-Aug-22 Rev.26 Ji-Aug-22 Rev.26 Ji-Oct-22 Rev.27 Ji-Oct-24	Fabrication, FAT &	Delivery of Major Plant & Materials	705 29-Nov-21 A	26-Dec-23	26-May-22 0	08-Sep-23	-109					
Contract No. DE/2018/03 Layout: DE1803 RP (Nov 2022) - WBS Page 46 of 58 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 Nov 2022 Rev24 LT KI 31-Jul-22 Rev24 LT KI 31-Aug-22 Rev25 LT KI 30-Sep-22 Rev26 LT KI 30-Sep-22 Rev26 LT KI 31-Oct-22 Rev27 LT KI 31-Oct-22 Rev27 LT KI 31-Oct-22 Rev27 LT KI 31-Oct-22 Rev27 LT KI 31-Oct-22 Rev28 LT KI 31-Oct-22 Rev28 LT KI 31-Oct-22 Rev29 LT KI	S5WS2P1000	Fabrication of 11kV to 380V Transfomers	123 14-Jul-22 A	13-Jan-23	26-May-22	18-Jul-22	-179 S2P1110	S5WS2P1010				
Layout: DE1803 RP (Nov 2022) - WBS Page 46 of 58 Contract No. DE/2018/03 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Shek Wu Hui Effluent Polishing Plant - Main Works for Sludge Treatment Facilities Revised Programme - as at 20 Nov 2022 31-Jul-22 Rev24 LT KI 31-Aug-22 Rev25 LT KI 30-Sep-22 Rev26 LT KI 31-Oct-22 Rev27 LT KI 31-Oct-22 Rev27 LT KI		File Name: DE/2019/02 DD D20					Construe 1 21	DE /2040/01	<u> </u>	Date	Revision	Checked Approved
WBS Page 46 of 58 Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities Revised Programme - as at 20 Nov 2022 Shek Wu Hui Effluent Polisning Plant - Main Works Stage 1 31-Aug-22 Rev25 LT KI 30-Sep-22 Rev26 LT KI 31-Oct-22 Rev27 LT KI		The Name: 52/2010/00 Nt 1/20			Cl			•		31-Jul-22	Rev.24	LT KM
Page 46 of 58 Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities Revised Programme - as at 20 Nov 2022 Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities 30-Sep-22 Rev26 LT K		Edyout. BE 1000 Ni (Nov 2022)						_	_			LT KM
Revised Programme - as at 20 Nov 2022 31-Oct-22 Rev27 LT KI		VVB3		Sidestre	eam Treatm	ent Fa	cilities and E&N	/I Works for	Sludge Treatment Facilities	30-Sep-22	Rev.26	LT KM
30-Nov-22 Rev28 LT KI	IEC	1 490 10 01 00				Revis	sed Programme	- as at 20 No	ov 2022			LT KM
										30-Nov-22	Rev.28	LT KM

ity ID	Activity Name	Original Ear	rly Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020 2021	2022	2023	2024	2025 [26
											123	5 3 7 3 3 1 1 1 1 1 1	11112222222	23333333333
S5WS2P1010	FAT for 11kV to 380V Transformers			27-Jan-23					S5WS2P1020					
S5WS2P1020	Delivery of 11kV to 380V Transfomers	60 28	-Jan-23	28-Mar-23	02-Aug-22	30-Sep-22	-179	S5WS2P1010	S5CHPC1130, S5WS2C1070					
S5WS2P1060	Fabrication of 11 kV Switchboard	210 29	-Nov-21 A	26-Jun-22 A	06-Sep-22	06-Sep-22		S2P1120	S5WS2P1070	•				
S5WS2P1070	FAT for 11 kV Switchboard			04-Dec-22		19-Sep-22			S5WS2P1080					
S5WS2P1080	Delivery of 11kV Switchboard	55 05	-Dec-22	28-Jan-23	20-Sep-22	13-Nov-22	-76	S5WS2P1070	S5WS2C1060, S5CHPC1140					
S5WS2P1090	Fabrication of LV Switchboard	100 04	-Dec-22*	13-Mar-23	08-Aug-22	15-Nov-22	-118	S2P1130, S2D1250, S2D1190, S2D1270	S5WS2P1100					
S5WS2P1100	FAT for LV Switchboard	14 28	-Feb-23	13-Mar-23	02-Nov-22	15-Nov-22	-118	S5WS2P1090	S5WS2P1110		•			
S5WS2P1110	Delivery of LV Switchboard	14 14	-Mar-23	27-Mar-23	16-Nov-22	29-Nov-22	-118	S5WS2P1100	S5CHPC1260, S5WS2C1080					
S5WS2P1120	Fabrication & Delivery of Lift	210 18	-Dec-21 A	10-Aug-22 A	12-May-23	12-May-23			S5WS2C1190					
S5WS2P1130	Delivery of Control & Monitoring System / SCADA System	360 01	-Jan-23*	26-Dec-23	14-Sep-22	08-Sep-23	-109		S5WS2C1180					
Installation		735 31	-Dec-21 A	25-Jan-24	03-Aug-22	16-Apr-25	447							
S5WS2C1000	Mobilisation	14 31	-Dec-21 A	12-Mar-22 A	03-Aug-22	03-Aug-22		AD1120, S5S1030	S5WS2C1010, S5WS2C1050					
CLP Substation		468 14	-Mar-22 A	01-Jul-23	03-Aug-22	13-Mar-23	-110							
S5WS2C1010	BS Fitting Installation (at CLP Sub-station in Workshop No.2)	60 14	-Mar-22 A	02-Sep-22 A	03-Aug-22	03-Aug-22		S5WS2C1000, AD1120	KD1060, S5WS2C1020, S5WS2C1050, KD1060-1					
S5WS2C1020	Inspections, Rectification & H/O to CLP	60 03	-Sep-22 A	01-Jan-23	03-Aug-22	13-Sep-22	-110	S5WS2C1010	S5WS2C1030					
S5WS2C1030	E&M Installation of HV Transformer (By CLP)	180 02	-Jan-23	30-Jun-23	14-Sep-22	12-Mar-23	-110	S5WS2C1020	S5WS2C1040	1				
	Energisation (By CLP)	1 01	-Jul-23	01-Jul-23	13-Mar-23			S5WS2C1030, S5WS2C1060, S5S1000						
HV Switchroom /	/Transformer Room / LV Switchroom	571 11-	-Apr-22 A	14-Nov-23	16-Sep-22	16-Apr-25	519							
S5WS2C1050	BS Fitting Intallation	60 11-	-Apr-22 A	02-Dec-22	15-Oct-22	26-Oct-22	-37	S5WS2C1000, S5WS2C1010	S5WS2C1060					
S5WS2C1060	HV Switchroom Installation	60 30	-Dec-22	27-Feb-23	27-Oct-22	25-Dec-22	-64		S5WS2C1130, S5TXRT1010, S5WS2C1040, S5WS2C1070, S5WS2T1000		-			
S5WS2C1070	TX Room Installation	60 28	-Feb-23	28-Apr-23	30-Jul-23	27-Sep-23	152		S5WS2C1080, S5WS2T1000			-		
S5WS2C1080	LV Switchroom Installation	60 29	-Apr-23	27-Jun-23	28-Sep-23	26-Nov-23	152	S5WS2C1070, S5WS2P1110	S5WS2T1000					
S5WS2C1090	Access to Other Peripheral Systems (Impacted by EWN-0314)	1 14	-Mar-23*	14-Mar-23	16-Sep-22	16-Sep-22	-179		S5WS2C1110	<u> </u>				
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		-Apr-23*		17-Sep-22		-210		S5WS2C1110			•		
S5WS2C1110	HV Cables Laying between Workshop No.2 & Tx Rm for CHP Bldg and Termination	60 15	-Apr-23	13-Jun-23	17-Sep-22	15-Nov-22	-210	S5WS2C1090, S5WS2C1105	S5CHPT1020, S5DIGT1010, S5WS2C1120, S5WS2C1120, S5BIOT1000, S5THPT1000, S5THPT1000, S5WGBT1000, S5DOUT1010, S5SPST1000, S5TCWT1000, SFCDT1000, PL1210					
S5WS2C1120									05/4/0004400					
	HV Cables Laying between Workshop No.2 & Tx Rm for Sludge Dewatering Bldg and Termination	70 15	-May-23	23-Jul-23	17-Oct-22	25-Dec-22	-210	S5WS2C1110	S5WS2C1130, PL1210, S5SDBT1191					
S5WS2C1125			-May-23 -Sep-23*	23-Jul-23	17-Oct-22 26-Dec-22	25-Dec-22	-210 -249		PL1210,			T		

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 47 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

Activity ID	Activity Name	Original Early Start	Early Finish	Late Start	Late Finish		Predecessors	Successors	2020 2021 2022 2023 20	
		Duration				Float			3	JA J J J J J J J J J J J J J J J J J J
S5WS2C1130	HV Cables Laying between Workshop No.2 & Tx Rm for UV System No.1 and Termination	75 01-Sep-2	3* 14-Nov-23	26-Dec-22	10-Mar-23	-249	S5WS2C1060, S5WS2C1120, S5WS2C1125	S5TXRT1010, S5PSWT1000, S5DOUT1000, S5SHPT1000, PL1210		444444 (4343433333
Building Services	5	492 11-Apr-22	2A 25-Jan-24	13-Dec-22	31-Jan-24	6				
S5WS2C1140	Installation of FS System	204 11-Apr-22	2A 31-Dec-22	24-May-23	03-Jul-23	184	S5S1120	S5WS2C1150, S5S1130		
S5WS2C1150	Installation of MVAC System	150 01-Jan-2	30-May-23	04-Jul-23	30-Nov-23	184	S5WS2C1140	S5S1220		
S5WS2C1160	Installation of Electrical System	150 21-Nov-2	2* 19-Apr-23	13-Dec-22	11-May-23	22		S5WS2C1180		
S5WS2C1170	Installation of Plumbing System	90 21-Nov-2	2* 18-Feb-23	03-Nov-23	31-Jan-24	347	S5S1120	S5S1160		
S5WS2C1180	Installation of SCADA Sys. / Control Monitoring Sys. / Gas Detection Sys. / CCTV Sys. / IT&PABX Sys. / ACS Sys.	150 29-Aug-2	3 25-Jan-24	12-May-23	08-Oct-23	-109	S5WS2C1160, S5WS2P1130	S5T1200, S5T1000, S5T1010, S5T1020, S5T1030, S5S0990, PL1210		
S5WS2C1190	Installation of Lift	120 13-Sep-2	2 A 12-Mar-23	12-May-23	31-Aug-23	172	S5WS2P1120	S5WS2T1020, S5SDBC1770		
Testing and Comm	nissioning	169 28-Jun-23	3 13-Dec-23	27-Nov-23	27-Feb-24	76				
S5WS2T1000	SAT for Transformer & Switchboard	30 28-Jun-23	3 27-Jul-23	27-Nov-23	26-Dec-23	152	S5WS2C1080, S5WS2C1070, S5WS2C1060	S5WS2T1010		
S5WS2T1010	Ready for Power Energisation	3 12-Oct-23	14-Oct-23	27-Dec-23	29-Dec-23	76	S5WS2T1000, S5WS2C1110, S5EXAC1030	S5WS2T1020		
S5WS2T1020	SAT for Lift	60 15-Oct-23	13-Dec-23	30-Dec-23	27-Feb-24	76	S5WS2C1190, S5WS2T1010	S5S1090		
Biogas Storage		772 29-Nov-2	1 A 31-Jan-24	17-Apr-22	29-Jun-23	-216				
Fabrication, FAT &	Delivery of Major Plant & Materials	736 29-Nov-2	1 A 26-Dec-23	17-Apr-22	11-Apr-23	-259				
S5BIOP1000	Fabrication & Delivery of Biogas Booster and Transfer Pumps	180 22-Nov-2			26-Jan-23			S5BIOC1020		
S5BIOP1010	Fabrication & Delivery of Biogas Storage	180 29-Nov-2	1 A 30-Jul-22 A	01-Jun-22	01-Jun-22		S2P1050, S2D1530	S5BIOC1020, S5BIOC1030, S5BIOC1040		
S5BIOP1020	Delivery of Control & Monitoring System / SCADA System	360 01-Jan-23	3* 26-Dec-23	17-Apr-22	11-Apr-23	-259		S5BIOC1050		
Installation		492 13-Sep-2	2 A 25-Jan-24	01-Jun-22	11-May-23	-259				
S5BIOC1000	Access to Biogas Holding Tanks (Impacted by EWN-0314-1)	1 13-Sep-2	2 A 13-Sep-22 A	01-Jun-22	01-Jun-22			S5BIOC1010		
S5BIOC1010	Mobilisation	30 13-Sep-2	2 A 12-Dec-22	01-Jun-22	21-Jun-22	-174	AD1100, S5BIOC1000	S5BIOC1020		
E&M Installation		430 22-Nov-2	2 25-Jan-24	01-Jun-22	11-May-23	-259				
S5BIOC1020	E&M Installation of Biogas Storage Tank 1	240 22-Nov-2	2 19-Jul-23	01-Jun-22	26-Jan-23	-174	AD1100, S5BIOP1010, S5S1060, S5BIOP1000, S5BIOC1010	S5BIOC1030, S5BIOT1000		
S5BIOC1030	E&M Installation of Biogas Storage Tank 2	240 07-Dec-2	2 03-Aug-23	16-Jun-22	10-Feb-23	-174	AD1100, S5BIOC1020, S5BIOP1010	S5BIOC1040, S5WGBC1020, S5BIOT1000		
S5BIOC1040	E&M Installation of Biogas Storage Tank 3	210 07-Mar-2	3 02-Oct-23	14-Sep-22	11-Apr-23	-174	AD1100, S5BIOC1030, S5BIOP1010	S5BIOT1010, S5BIOC1060, S5BIOT1000, PL1210, S5BIOC1050		
S5BIOC1050	Installation of SCADA System / Control Monitoring System	150 29-Aug-2	3 25-Jan-24	13-Dec-22	11-May-23	-259	S5BIOC1040, S5BIOP1020	S5T1000, S5T1010, S5T1020, S5T1030		
BS Installation		60 03-Sep-2	3 01-Nov-23	13-Mar-23	11-May-23	-174				
					_					

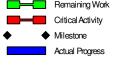
File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 48 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

·ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020 2021 2022 2023 2024 20
									1123 5 5 7 3 1 1 1 1 1 2 2 2 2 2
S5BIOC1060	BS Installation for Biogas Holding Tanks	60 03-Sep-23	01-Nov-23	13-Mar-23	11-May-23	-174	S5THPC1050, S5BIOC1040	\$5\$1160, \$5T1000, \$5T1010, \$5T1020, \$5T1030	
esting and Comm	nissioning	33 30-Dec-23	31-Jan-24	28-May-23	29-Jun-23	-216			
S5BIOT1000	Ready for Power Energisation	3 30-Dec-23	01-Jan-24	28-May-23	30-May-23	-216	S5BIOC1040, S5BIOC1030, S5BIOC1020, S5WS2C1110, S5EXAC1033	S5BIOT1010	
S5BIOT1010	SAT for Biogas Storage System	30 02-Jan-24	31-Jan-24	31-May-23	29-Jun-23	-216	S5BIOC1040, S5CHPT1020, S5BIOT1000	S5T1070	
IP Area		905 29-Jun-21	A 31-Jan-24	17-Apr-22	15-May-23	-261			
abrication, FAT &	Delivery of Major Plant & Materials	869 29-Jun-21	A 26-Dec-23	17-Apr-22	11-Apr-23	-259			
S5THPP1000	Fabrication of THP System	300 29-Jun-21	A 18-Mar-22 A	02-Nov-22	02-Nov-22		S2P1040, S2D1410, S2D1370	S5THPP1010	
S5THPP1010	FAT for THP System	14 03-Jan-22	A 17-May-22 A	02-Nov-22	02-Nov-22		S5THPP1000	S5THPP1020	
S5THPP1020	Delivery of THP System	60 29-Mar-22	A 23-May-22 A	02-Nov-22	02-Nov-22		S5THPP1010	S5THPC1020	
S5THPP1030	Delivery of Control & Monitoring System / SCADA System	360 01-Jan-23		·	11-Apr-23			S5THPC1040	
nstallation		431 21-Nov-22	25-Jan-24	01-Nov-22	11-May-23	-259			
	Access to THP Area (Impacted by EWN-0314)	1 21-Nov-22			01-Nov-22			S5THPC1020	
	Access to THP Area (Impacted by EWN-0314-1)	1 21-Nov-22			01-Nov-22			S5THPC1020	
E&M Installation		430 22-Nov-22	25-Jan-24	02-N0V-22	11-May-23	-259			
S5THPC1020	E&M Installation of THP System	120 22-Nov-22	21-Mar-23	02-Nov-22	01-Mar-23	-20	S5S1020, S5THPC1000,	S5THPC1030, S5THPT1010, S5THPC1050, S5WGBC1020, S5THPT1000, S5THPC1040	
S5THPC1030	E&M Installation of Thickened Sludge Feed Pipe to THP System	75 20-Feb-23	05-May-23	31-Jan-23	15-Apr-23	-20	S5THPC1020	S5THPT1010, PL1210	
S5THPC1040	Installation of SCADA System / Control Monitoring System	60 27-Nov-23	25-Jan-24	13-Mar-23	11-May-23	-259	S5THPC1020, S5THPP1030	S5T1000, S5T1010, S5T1020, S5T1030	
BS Installation		30 22-Mar-23	20-Apr-23	12-Apr-23	11-May-23	21			
S5THPC1050	BS Installation for THP Facilities	30 22-Mar-23	20-Apr-23	12-Apr-23	11-May-23	21	S5THPC1020	S5BIOC1060, S5S1160, S5T1000, S5T1010, S5T1020, S5T1030	
Testing and Comm	nissioning	33 30-Dec-23	31-Jan-24	13-Apr-23	15-May-23	-261			
S5THPT1000	Ready for Power Energisation	3 30-Dec-23	01-Jan-24	13-Apr-23	15-Apr-23	-261	S5THPC1020, S5WS2C1110, S5EXAC1033	S5THPT1010	
S5THPT1010	SAT of THP System	30 02-Jan-24	31-Jan-24	16-Apr-23	15-May-23	-261	S5THPC1020, S5THPC1030, S5CHPT1020, S5THPT1000	S5T1050	
2S Removal Area		529 23-Jun-22	A 31-Jan-24	17-Apr-22	30-May-23	-246			
Fabrication, FAT &	Delivery of Major Plant & Materials	493 23-Jun-22	A 26-Dec-23	17-Apr-22	11-Apr-23	-259			
		150 23-Jun-22	A 19-Jan-23	25-Nov-22	23-Jan-23	4	S2P1060,	S5H2SC1020	
S5H2SP1000	Fabrication & Delivery of H2S Removal System		10 04.1 20	201101 22	20 0420		S2D1530		

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 49 of 58



Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
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31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020 2021 2022 2023 2024 2025
Installation		431 21-Nov-22	25-Jan-24	06-Feb-23	11-May-23	-259			
S5H2SC1000	Access to H2S Removal Area (Impacted by EWN-0314)	1 21-Nov-22*	21-Nov-22	06-Feb-23	06-Feb-23	77		S5H2SC1020	
S5H2SC1010	Access to H2S Removal Area (Impacted by EWN-0314-1)	1 31-Dec-22*	31-Dec-22	06-Feb-23	06-Feb-23	37		S5H2SC1020	
S5H2SC1020	E&M Installation of H2S Removal System	80 03-Feb-23	23-Apr-23	07-Feb-23	27-Apr-23	4		S5H2ST1000, PL1210, S5H2SC1030	
S5H2SC1030	Installation of SCADA System / Control Monitoring System	30 27-Dec-23	25-Jan-24	12-Apr-23	11-May-23	-259	S5H2SC1020, S5H2SP1010	S5T1000, S5T1010, S5T1020, S5T1030	
Testing and Comn	missioning	33 30-Dec-23	31-Jan-24	28-Apr-23	30-May-23	-246			
S5H2ST1000	Ready for Power Energisation	3 30-Dec-23	01-Jan-24	28-Apr-23	30-Apr-23		S5H2SC1020, S5WS2C1110, S5EXAC1033	S5H2ST1010	
S5H2ST1010	SAT of H2S Removal System	30 02-Jan-24	31-Jan-24	01-May-23	30-May-23	-246	S5H2ST1000	S5T1080	
Waste Gas Burning	g Area	635 29-Mar-22 A	16-Mar-24	17-Apr-22	14-Jul-23	-246			
Fabrication, FAT &	k Delivery of Major Plant & Materials	554 29-Mar-22 A	26-Dec-23	17-Apr-22	11-Apr-23	-259			
S5WGBP1000	Fabrication of Waste Gas Burning System	210 29-Mar-22 A	24-Jan-23	09-Sep-22	12-Nov-22	-73	S2P1080, S2D1650	S5WGBP1010	
S5WGBP1010	FAT for Waste Gas Burning System	14 11-Jan-23	24-Jan-23	30-Oct-22	12-Nov-22	-73	S5WGBP1000	S5WGBP1020	
S5WGBP1020	Delivery of Waste Gas Burning System	60 25-Jan-23	25-Mar-23	13-Nov-22	11-Jan-23	-73	S5WGBP1010	S5WGBC1020	
S5WGBP1030	Delivery of Control & Monitoring System / SCADA System	360 01-Jan-23*	26-Dec-23	17-Apr-22	11-Apr-23	-259		S5WGBC1030	
Installation		431 21-Nov-22	25-Jan-24	11-Jan-23	11-May-23	-259			
S5WGBC1000	Access to Waste Gas Burning Area (Impacted by EWN-0314)	1 21-Nov-22*	21-Nov-22	11-Jan-23	11-Jan-23	51		S5WGBC1020	
S5WGBC1010	Access to Waste Gas Burning Area (Impacted by EWN-0314-1)	1 21-Nov-22*	21-Nov-22	11-Jan-23	11-Jan-23	51		S5WGBC1020	
S5WGBC1020	E&M Installation of Waste Gas Burning System	120 13-Apr-23	10-Aug-23	12-Jan-23	11-May-23	-91	S5BIOC1030,	S5WGBT1010, S5WGBT1000, PL1210, S5WGBC1030	
S5WGBC1030	Installation of SCADA System / Control Monitoring System	60 27-Nov-23	25-Jan-24	13-Mar-23	11-May-23	-259	S5WGBC1020		
Testing and Comn	missioning	18 28-Feb-24	16-Mar-24	27-Jun-23	14-Jul-23	-246			
S5WGBT1000	Ready for Power Energisation	3 28-Feb-24	01-Mar-24	27-Jun-23	29-Jun-23	-246	S5WGBC1020, S5WS2C1110, S5EXAC1036	S5WGBT1010	
S5WGBT1010	SAT for Gas Burning System	15 02-Mar-24	16-Mar-24	30-Jun-23	14-Jul-23	-246	S5WGBC1020, S5WGBT1000	S5T1090	
Plant Service Wate	er Area	482 21-Nov-22	16-Mar-24	17-Apr-22	11-May-23	-310			
Fabrication, FAT &	& Delivery of Major Plant & Materials	360 21-Nov-22	15-Nov-23	17-Apr-22	11-Apr-23	-218			
S5PSWP1000	Fabrication & Delivery of Plant Service Water System	120 21-Nov-22	20-Mar-23	16-Aug-22	13-Dec-22	-97	S2P1090, S2D1690	S5PSWC1000	
S5PSWP1010	Delivery of SCADA System	360 21-Nov-22*	15-Nov-23	17-Apr-22	11-Apr-23	-218		S5PSWC1010]
Installation		270 21-Mar-23	15-Dec-23	14-Dec-22	11-May-23	-218			
S5PSWC1000	E&M Installation of Plant Service Water System	90 21-Mar-23	18-Jun-23	14-Dec-22	13-Mar-23	-97	AD1100, S5PSWP1000	S5PSWT1000, PL1210, S5PSWC1010	
S5PSWC1010	Installation of SCADA System / Control Monitoring System	30 16-Nov-23	15-Dec-23	12-Apr-23	11-May-23	-218	S5PSWP1010, S5PSWC1000	S5T1000, S5T1010, S5T1020, S5T1030	
Testing and Comn	missioning	48 29-Jan-24	16-Mar-24	14-Mar-23	30-Apr-23	-321			
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File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 50 of 58



Date	Revision	Checked	Approved		
31-Jul-22	Rev.24	LT	KM		
31-Aug-22	Rev.25	LT	KM		
30-Sep-22	Rev.26	LT	KM		
31-Oct-22	Rev.27	LT	KM		
30-Nov-22	Rev.28	LT	KM		

ctivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020 2021 2022 2023 2024 2025 20 3
S5PSWT1000	Ready for Power Energisation	3 29-Jan-24	31-Jan-24	14-Mar-23	16-Mar-23	-321	S5PSWC1000, S5WS2C1130,	S5PSWT1010	
							S5W32C1130, S5EXAC1040, S5TXRT1010		
S5PSWT1010	SAT & System Commissioning Tests for Plant Services Water System	45 01-Feb-24	16-Mar-24	17-Mar-23	30-Apr-23	-321	S5PSWT1000, S5UVPC1000	S5T1060	
DO Area		666 10-Mar-22 A	16-Mar-24	17-Apr-22	29-Jun-23	-261			
Fabrication, FAT &	Delivery of Major Plant & Materials	585 10-Mar-22 A	26-Dec-23	17-Apr-22	11-Apr-23	-259			
S5DOUP1000	Fabrication & Delivery of DO System	150 10-Mar-22 A	30-Jan-23	03-Nov-22	12-Jan-23	-18	S2P1150, S2D1930	S5DOUC1030, S5DOUC1040	
S5DOUP1010	Delivery of Control & Monitoring System / SCADA System	360 01-Jan-23*	26-Dec-23	17-Apr-22	11-Apr-23	-259		S5DOUC1050	
Installation		431 21-Nov-22	25-Jan-24	12-Jan-23	11-May-23	-259			
S5DOUC1000	Access to DO Area (Impacted by EWN-0314)	1 21-Nov-22*	21-Nov-22	12-Jan-23	12-Jan-23	52		S5DOUC1030, S5DOUC1040	
S5DOUC1010	Access to DOArea No.11 (Impacted by EWN-0314-1)	1 21-Nov-22*	21-Nov-22	12-Jan-23				S5DOUC1030	
S5DOUC1020	Access to DO Area No.12 (Impacted by EWN-0314-1)	1 31-Dec-22*	31-Dec-22	10-Feb-23				S5DOUC1040	_
S5DOUC1030	E&M Installation of DO System No.11	90 31-Jan-23	30-Apr-23	13-Jan-23	12-Apr-23	-18	AD1100, S5DOUP1000, S5DOUC1000, S5DOUC1010	S5DOUT1000	
S5DOUC1040	E&M Installation of DO System No.12	90 31-Jan-23	30-Apr-23	11-Feb-23	11-May-23	11	AD1100, S5DOUP1000, S5DOUC1000, S5DOUC1020	S5DOUT1010, PL1210, S5DOUC1050	
S5DOUC1050	Installation of SCADA System / Control Monitoring System	60 27-Nov-23	25-Jan-24	13-Mar-23	11-May-23	-259	S5DOUP1010, S5DOUC1040	S5T1000, S5T1010, S5T1020, S5T1030	
Testing and Comn	missioning	78 30-Dec-23	16-Mar-24	13-Apr-23	29-Jun-23	-261			
S5DOUT1000	Ready for Power Energisation of DO No.11	3 29-Jan-24	31-Jan-24	13-Apr-23	15-Apr-23	-291	S5DOUC1030, S5WS2C1130, S5EXAC1040, S5TXRT1010	S5DOUT1020	
S5DOUT1010	Ready for Power Energisation of DO No.12	3 30-Dec-23	01-Jan-24	13-May-23	15-May-23	-231	S5DOUC1040, S5WS2C1110, S5EXAC1033	S5DOUT1030	
S5DOUT1020	SAT & System Commissioning Tests for DO System No.11	45 01-Feb-24	16-Mar-24	16-Apr-23	30-May-23	-291	S5DOUT1000	S5T1060	
S5DOUT1030	SAT & System Commissioning Tests for DO System No.12	45 02-Jan-24	15-Feb-24				S5DOUT1010	S5T1080	
Sewage Pump Stat	tion	635 23-May-22 A	16-Mar-24	17-Apr-22	16-Apr-25	396			
Fabrication, FAT &	Delivery of Major Plant & Materials	513 23-May-22 A	15-Nov-23	17-Apr-22	11-Apr-23	-218			
S5SPSP1000	Fabrication & Delivery of Sewage Pump	150 23-May-22 A	19-Jan-23	13-Nov-22	11-Jan-23	-8	S2P1180, S2D1940	S5SPSC1000	
S5SPSP1010	Fabrication & Delivery of LV Switchboard	134 16-May-23*	26-Sep-23	30-Sep-22	10-Feb-23	-228		S5SPSC1000, S5SPSC1001, S5SPST0990	
S5SPSP1020	Delivery of Control & Monitoring System / SCADA System	360 21-Nov-22*	15-Nov-23		11-Apr-23			S5SPSC1010	
Installation		120 28-Aug-23	25-Dec-23	12-Jan-23	16-Apr-25	478			
E&M Installation		110 28-Aug-23	15-Dec-23	12-Jan-23	16-Apr-25	488			
S5SPSC1000	E&M Installation of Sewage Pump	60 28-Aug-23	26-Oct-23	12-Jan-23	12-Mar-23	-228	S5SPSP1000,	S5SPSC1020, S5SPST1000, PL1210, S5SPSC1010	
S5SPSC1001	LV Switchboard Installation	60 27-Sep-23	25-Nov-23	16-Feb-25	16-Apr-25	508	S5SPSP1010		7
S5SPSC1010	Installation of SCADA System / Control Monitoring System	30 16-Nov-23	15-Dec-23	12-Apr-23	11-May-23	-218	S5SPSP1020, S5SPSC1000	S5T1000, S5T1010, S5T1020, S5T1030	
BS Installation		60 27-Oct-23	25-Dec-23	13-Mar-23	11-May-23	-228			
BS Installation		60 27-Oct-23	25-Dec-23	13-Mar-23	11-May-23	-228			

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 51 of 58



Date	Revision	Checked	Approved			
31-Jul-22	Rev.24	LT	KM			
31-Aug-22	Rev.25	LT	KM			
30-Sep-22	Rev.26	LT	KM			
31-Oct-22	31-Oct-22 Rev.27		KM			
30-Nov-22	Rev.28	LT	KM			

vity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Tota Float	l Predecessors	Successors	9 2020 2021	2022	2023	2024	2025
									<u> </u>	123	5 3 7 3 3 1 1 1 1 1 1	1112222222	2 23333333
S5SPSC1020	BS Installation for Sewage Pumping Station	60 27-Oct-23	25-Dec-23	13-Mar-23	11-May-23	-228	S5SPSC1000	S5S1160, S5T1000, S5T1010, S5T1020,					
								S5T1030					
Testing and Com	missioning	172 27-Sep-23	16-Mar-24	13-Apr-23	30-May-23	-291							
S5SPST0990	SAT of Switchboard	30 27-Sep-23	26-Oct-23	13-Apr-23	12-May-23	-167	S5SPSP1010	S5SPST1000			-		
S5SPST1000	Ready for Power Energisation	3 28-Feb-24	01-Mar-24	13-May-23	15-May-23	-291	S5SPSC1000, S5WS2C1110,	S5SPST1010					
							S5WS2C1110, S5SPST0990, S5EXAC1036, S5EXAC1045						
S5SPST1010	SAT & System Commissioning Tests for Sewage Pumping Station	15 02-Mar-24	16-Mar-24	16-May-23	30-Mav-23	-291	S5SPST1000	S5T1060	1				
	r Transfer Pumping Station	584 23-May-22 A		_	15-May-23								
abrication, FAT 8	& Delivery of Major Plant & Materials	554 23-May-22 A	26-Dec-23	17-Apr-22	11-Apr-23	-259							
S5TCWP1000	Fabrication & Delivery of THP Cooling Pump	150 23-May-22 A		20 Dog 22	26-Feb-23	20	S2P1210,	S5TCWC1020					
331CWF1000	Fabilication & Delivery of THE Cooling Fump	150 25-Iviay-22 P	19-0411-25	29-060-22	20-1-60-23	30	S2D1970, S2D1370	33100001020					
S5TCWP1010	Delivery of Control & Monitoring System / SCADA System	360 01-Jan-23*	26-Dec-23	17-Apr-22	11-Apr-23	-259	,	S5TCWC1030					
stallation		431 21-Nov-22	25-Jan-24	26-Feb-23	11-May-23	-259							
S5TCWC1000	Access to THP CW Transfer Pumping Station (Impacted by EWN-0314)	1 21-Nov-22*	21-Nov-22	26-Feb-23	26-Feb-23	97		S5TCWC1020					
S5TCWC1010	Access to THP CW Transfer Pumping Station (Impacted by EWN-0314-1)	1 21-Nov-22*	21-Nov-22	26-Feb-23				S5TCWC1020	1				
5TCWC1020	E&M Installation of THP Cooling Pump	60 20-Jan-23	20-Mar-23	27-Feb-23	27-Apr-23	38	AD1100,	S5TCWT1000,	1				
							S5TCWP1000, S5TCWC1000, S5TCWC1010	S5TCWC1030					
5TCWC1030	Installation of SCADA System / Control Monitoring System	30 27-Dec-23	25-Jan-24	12-Apr-23	11-May-23	-259	S5TCWP1010, S5TCWC1020	S5T1000, S5T1010, S5T1020, S5T1030					
esting and Com	missioning	18 12-Oct-23	29-Oct-23	28-Apr-23	15-May-23	-167							
S5TCWT1000	Ready for Power Energisation	3 12-Oct-23	14-Oct-23	28-Apr-23	30-Apr-23	-167	' S5TCWC1020,	S5TCWT1010	1				
	. Isaay isi i siisi Erio gaasa.	5 12 33: 25		20 / p. 20	00 / p . 20		S5WS2C1110, S5EXAC1030						
S5TCWT1010	SAT & System Commissioning Tests for THP Cooling Water Pumping System	15 15-Oct-23	29-Oct-23	,	,		S5TCWT1000	S5T1050			•		
rric Chloride Do	sing Facility	606 14-May-22 A	15-Apr-24	17-Apr-22	30-May-23	-321							
brication, FAT 8	& Delivery of Major Plant & Materials	495 14-May-22 A	26-Dec-23	17-Apr-22	11-Apr-23	-259							
5FCDP1000	Fabrication & Delivery of Ferric Chloride Storage Tank	90 21-Nov-22	18-Feb-23	30-Sep-22	28-Dec-22	-52	S5P1030, S2D1980	S5FCDC1020		<u> </u>			
5FCDP1010	Fabrication & Delivery of Ferric Chloride Dosing Pump	150 14-May-22 A	10-Jan-23	24-Nov-22	13-Jan-23	3	S5P1040, S2D1980	S5FCDC1030	-				
5FCDP1020	Fabrication & Delivery of LV Switchboard	120 15-Dec-22*	13-Apr-23	30-Sep-22	27-Jan-23	-76		S5FCDC1030	1		.		
5FCDP1030	Delivery of Control & Monitoring System / SCADA System	360 01-Jan-23*	26-Dec-23	17-Apr-22	11-Apr-23	-259	,	S5FCDP1040	1				
stallation		431 21-Nov-22	25-Jan-24	28-Dec-22	11-May-23	-259					1		
5FCDC1000	Access to Ferric Chloride Dosing Facility (Impacted by EWN-0314)	1 21-Nov-22*	21-Nov-22	28-Dec-22	28-Dec-22	37	,	S5FCDC1020					
S5FCDC1010	Access to Ferric Chloride Dosing Facility (Impacted by EWN-0314-1)	1 21-Nov-22*	21-Nov-22	28-Dec-22				S5FCDC1020	1				
65FCDC1020	E&M Installation of Ferric Chloride Storage Tank	45 19-Feb-23	04-Apr-23	29-Dec-22	11-Feb-23	-52	2 AD1100, S5FCDP1000, S5FCDC1000, S5FCDC1010	S5FCDC1030, S5S1280					
S5FCDC1030	E&M Installation of Ferric Chloride Dosing Pump	45 14-Apr-23	28-May-23	28-Jan-23	13-Mar-23	-76	AD1100, S5FCDC1020,	S5FCDT1000, S5FCDT0990, PL1210, S5FCDP1040			-		
S5FCDP1040	Installation of SCADA System / Control Monitoring System	30 27-Dec-23	25-Jan-24	12-Apr-23	11-May-23	-259	S5FCDP1030, S5FCDC1030	S5T1000, S5T1010, S5T1020, S5T1030			•		
esting and Com	missioning	323 29-May-23	15-Apr-24	14-Mar-23	30-May-23	-321							
S5FCDT0990	SAT of Switchboard	30 29-May-23	27-Jun-23		12-Apr-23		S5FCDC1030	S5FCDT1000					
	<u> </u>		I	1		J.	J.	J		Date	Revision	Checked	Approv
	File Name: DE/2018/03 RP R28 Lavout: DE1803 RP (Nov 2022) - Critical Activity			 ·			ontract No.			31-Jul-22	Rev.24	LT	KM
	Layout: DE1803 RP (Nov 2022) - Critical Activity			Shek \	Nu Hui Ef	fflue	nt Polishing	Plant - Mai	n Works Stage 1	31-Aug-22	Rev.25	lт	KM

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 52 of 58

Critical Activity

Milestone

Actual Progress

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	J 3 1 J	2020	202	21 J [3] [] J []	2022	2023 J J J A	П	2024 J J A	202	25 2 JA
S5FCDT1000	Ready for Power Energisation	3 28-Feb-24	01-Mar-24	13-Apr-23	15-Apr-23	-321	S5FCDC1030, S5WS2C1110,	S5FCDT1010					123	3 5 3 7 3 3 1	111111	1122222	222 2333	333333
							S5FCDT0990, S5EXAC1036											
S5FCDT1010	SAT & System Commissioning Tests for FeCl3 Dosing Facility	45 02-Mar-24	15-Apr-24	16-Apr-23	30-May-23	-321	S5FCDT1000	S5T1080	1						<u> </u>	1		
Fire Hydrant and B	Booster Pump Room	467 21-Nov-22	01-Mar-24	17-Apr-22	30-Nov-23	-92												
Fabrication, FAT &	& Delivery of Major Plant & Materials	401 21-Nov-22	26-Dec-23	17-Apr-22	11-Apr-23	-259												
		20 21 11 22		·				0.201120100										
S5SHPP1000	Fabrication & Delivery of Fire Hydrant and Booster Pump	60 21-Nov-22*	19-Jan-23	13-Dec-22				S5SHPC1020 S5SHPC1030										
S5SHPP1010 Installation	Delivery of Control & Monitoring System / SCADA System	360 01-Jan-23* 431 21-Nov-22	26-Dec-23 25-Jan-24	17-Apr-22 10-Feb-23				222HPC 1030										
Installation		431 21-1100-22	20-0dH-24	10-160-23	11-1VIdy-23	-209									<u> </u>			
S5SHPC1000	Access to Fire Hydrant and Booster Pump Room (Impacted by EWN-0314)	1 21-Nov-22*	21-Nov-22	10-Feb-23				S5SHPC1020										
S5SHPC1010	Access to Fire Hydrant and Booster Pump Room (Impacted by EWN-0314-1)	1 21-Nov-22*	21-Nov-22	10-Feb-23				S5SHPC1020										
S5SHPC1020	Fire Hydrant and Booster Pump Room Installation	90 20-Jan-23	19-Apr-23	11-Feb-23	11-May-23		S5S1120, AD1100, S5SHPC1000, S5SHPC1010, S5SHPP1000	S5S1130, S5SHPT1000, PL1210, S5SHPC1030										
S5SHPC1030	Installation of SCADA System / Control Monitoring System	30 27-Dec-23	25-Jan-24				S5SHPP1010, S5SHPC1020	S5T1000, S5T1010, S5T1020, S5T1030							-			
Testing and Comm	missioning	33 29-Jan-24	01-Mar-24	29-Oct-23	30-Nov-23	-92												
S5SHPT1000	Ready for Power Energisation	3 29-Jan-24	31-Jan-24	29-Oct-23	31-Oct-23		S5SHPC1020, S5WS2C1130, S5EXAC1040, S5TXRT1010	S5SHPT1010							1			
S5SHPT1010	SAT for Fire Hydrant and Booster Pump	30 01-Feb-24	01-Mar-24	01-Nov-23	30-Nov-23	-92	S5SHPT1000	S5S1220										
External Area		351 14-Mar-23	27-Feb-24		06-Nov-23													
Installation		251 14 Mar 22	27 Feb 24	15 Oct 22	06 Nov 00	110												
Installation		351 14-Mar-23	27-Feb-24	15-OCI-22	06-Nov-23	-113												
S5EXAC1000	Access to Other Peripheral Systems (Impacted by EWN-0314)	1 14-Mar-23*	14-Mar-23	-	10-May-23			S5EXAC1050, S5EXAC1060										
S5EXAC1010	Access to Other Peripheral Systems (Impacted by EWN-0314-1)	1 31-Jul-23*	31-Jul-23	30-Jan-23	30-Jan-23	-182		S5EXAC1050, S5EXAC1060,							1 1 1			
								S5EXAC1030										1 1
S5EXAC1020	E&M Installation of Pipe Trench No.1, No.2	100 03-Jul-23	10-Oct-23	05-Feb-23	15-May-23		AD1100, S5EXAC1031	S5EXAC1030 S5T1050, PL1210						_				
S5EXAC1025	Access to Stage 1 External Area	0 15-Apr-23*		15-Oct-22		-182	S5EXAC1031	S5EXAC1030 S5T1050, PL1210 S5EXAC1030	_					•				
	The state of the s		10-Oct-23	15-Oct-22		-182 -182	S5EXAC1031 S5EXAC1010, S5P1050,	S5EXAC1030 S5T1050, PL1210						•				
S5EXAC1025	Access to Stage 1 External Area LV Cable Laying from CHP to Sludge Digestor, Workshop no.2 and THP CW transfer PS (120)	0 15-Apr-23*		15-Oct-22		-182 -182	S5EXAC1031 S5EXAC1010, S5P1050,	S5EXAC1030 S5T1050, PL1210 S5EXAC1030 S5TCWT1000, S5WS2T1010, S5DIGT1010,	_					•				
S5EXAC1025 S5EXAC1030	Access to Stage 1 External Area LV Cable Laying from CHP to Sludge Digestor, Workshop no.2 and THP CW transfer PS (120 days) & Termination (60 days)	0 15-Apr-23* 180 15-Apr-23		15-Oct-22 15-Oct-22	12-Apr-23	-182 -182 -261	S5EXAC1031 S5EXAC1010, S5P1050,	S5EXAC1030 S5T1050, PL1210 S5EXAC1030 S5TCWT1000, S5WS2T1010, S5DIGT1010, PL1210 S5EXAC1033,	_					•				
S5EXAC1025 S5EXAC1030 S5EXAC1031	Access to Stage 1 External Area LV Cable Laying from CHP to Sludge Digestor, Workshop no.2 and THP CW transfer PS (120 days) & Termination (60 days) Access to Stage 2 External Area LV Cable Laying from CHP to BHT, THP, DOU No.12, H2S removal & Guard Hse (120 days) &	0 15-Apr-23* 180 15-Apr-23 0 03-Jul-23*	11-Oct-23	15-Oct-22 15-Oct-22	12-Apr-23	-182 -182 -261	S5EXAC1031 S5EXAC1010, S5P1050, S5EXAC1025	S5EXAC1030 S5T1050, PL1210 S5EXAC1030 S5TCWT1000, S5WS2T1010, PL1210 S5EXAC1033, S5EXAC1020 S5BIOT1000, S5THPT1000, S5DOUT1010,						•				
S5EXAC1025 S5EXAC1030 S5EXAC1031 S5EXAC1033	Access to Stage 1 External Area LV Cable Laying from CHP to Sludge Digestor, Workshop no.2 and THP CW transfer PS (120 days) & Termination (60 days) Access to Stage 2 External Area LV Cable Laying from CHP to BHT, THP, DOU No.12, H2S removal & Guard Hse (120 days) & Termination (60 days)	0 15-Apr-23* 180 15-Apr-23 0 03-Jul-23* 180 03-Jul-23	11-Oct-23	15-Oct-22 15-Oct-22 15-Oct-22	12-Apr-23	-182 -182 -261 -261 -321	S5EXAC1031 S5EXAC1010, S5P1050, S5EXAC1025	S5EXAC1030 S5T1050, PL1210 S5EXAC1030 S5TCWT1000, S5WS2T1010, PL1210 S5EXAC1033, S5EXAC1020 S5BIOT1000, S5THPT1000, S5DOUT1010, S5H2ST1000 S5EXAC1036, S5EXAC1036, S5EXAC1040.						•				
S5EXAC1025 S5EXAC1030 S5EXAC1031 S5EXAC1033	Access to Stage 1 External Area LV Cable Laying from CHP to Sludge Digestor, Workshop no.2 and THP CW transfer PS (120 days) & Termination (60 days) Access to Stage 2 External Area LV Cable Laying from CHP to BHT, THP, DOU No.12, H2S removal & Guard Hse (120 days) & Termination (60 days) Access to Stage 3 External Area LV Cable Laying from CHP to FeCl3 Dosing Facility and Waste Gas Burning System (30 days)	0 15-Apr-23* 180 15-Apr-23 0 03-Jul-23* 180 03-Jul-23 0 01-Sep-23*	11-Oct-23 29-Dec-23	15-Oct-22 15-Oct-22 15-Oct-22 15-Oct-22 15-Oct-22	12-Apr-23	-182 -182 -261 -261 -321	S5EXAC1031 S5EXAC1010, S5P1050, S5EXAC1025 S5EXAC1031	S5EXAC1030 S5T1050, PL1210 S5EXAC1030 S5TCWT1000, S5WS2T1010, S5DIGT1010, PL1210 S5EXAC1033, S5EXAC1020 S5BIOT1000, S5THPT1000, S5DOUT1010, S5H2ST1000 S5EXAC1036, S5EXAC1040, S5EXAC1045 S5SPST1000, S5WGBT1000, S5WGBT1000,										

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 53 of 58



Date	Revision	Checked	Approved				
31-Jul-22	Rev.24	LT	KM				
31-Aug-22	Rev.25	LT	KM				
30-Sep-22	Rev.26	LT	KM				
31-Oct-22	Rev.27	LT	KM				
30-Nov-22	Rev.28	LT	KM				

Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Tota Float	Predecessors	Successors	9 2020 2021 2022 2023 2024 2025
Road Lighting Installation	180 01-Aug-23	27-Jan-24	11-May-23	06-Nov-23	-82	AD1100, S5EXAC1000, S5EXAC1010, S5P1050	S5S1220, PL1210	<u> </u>
Landscape Lighting Installation	120 01-Aug-23*	28-Nov-23	10-Jul-23	06-Nov-23	-22	S5EXAC1000, S5EXAC1010, S5P1050		
on .	816 04-Jul-21 A	15-Dec-23	17-Apr-22	16-Apr-25	488			
Delivery of Major Plant & Materials	786 04-Jul-21 A	15-Nov-23	17-Apr-22	16-Apr-25	518			
Fabrication & Delivery of SAS Pumping System	120 16-Mar-22 A	13-Dec-22	18-Feb-23	12-Mar-23	89	S2P1100, S2D1770	S5SASC1010	
Fabrication & Delivery of Stoplog	270 04-Jul-21 A	27-Jan-22 A	12-Mar-23	12-Mar-23		S2P1160	S5SASC1010	
Fabrication & Delivery of Penstock	270 04-Jul-21 A	27-Jan-22 A	12-Mar-23	12-Mar-23		S2P1170	S5SASC1010	
Fabrication & Delivery of Lifting Appliances	309 30-Oct-21 A	04-Jan-23	03-Mar-25	16-Apr-25	833			
Delivery of Control & Monitoring System / SCADA System	360 21-Nov-22*	15-Nov-23					S5SASC1020	
Fabrication & Delivery of LV Switchboard		-	-				S5SASC1030	
Assess to CAC Describe Obtion (horses to the NOT NOT OCC)							0504004040	
Access to SAS Pumping Station (Impacted by NCE-NCE-219)	1 23-Mar-22 A	23-Mar-22 A	03-Dec-22	03-Dec-22		ADT160	S5SASC1010	
E&M Installation of SAS Pumping System	210 23-Mar-22 A	28-Feb-23	03-Dec-22	12-Mar-23	12	S5SASP1000,	S5SAST1000, PL1210, S5SASC1020	
Installation of SCADA System / Control Monitoring System	60 17-Oct-23	15-Dec-23	13-Mar-23	11-May-23	-218		S5T1000, S5T1010, S5T1020, S5T1030	
LV Switchboard Installation	90 03-May-23	31-Jul-23	14-Dec-22	13-Mar-23	-140	S5SASP1050	S5SAST1010	
nissioning	78 01-Aug-23	17-Oct-23	14-Mar-23	30-May-23	-140			
SAT & System Commissioning Tests for SAS Pumping Station	45 03-Sep-23	17-Oct-23	16-Apr-23	30-May-23	-140	S5SASC1010, S5SAST1020	S5T1110, S5T1120, S5T1060	
SAT of Switchboard	30 01-Aug-23	30-Aug-23	14-Mar-23	12-Apr-23	-140	S5SASC1030	S5SAST1020	
							S5SAST1000	
		· ·						
Delivery of Major Plant & Materials	150 21-Nov-22	19-Apr-23	05-Jul-22	01-Dec-22	-139			
Fabrication & Delivery of Temporary Primary Sludge Pump	150 21-Nov-22	19-Apr-23				S2D1990	S5ECHC1000	
	120 20-Apr-23	17-Aug-23	02-Dec-22	31-Mar-23	-139			
E&M Installation of Existing Consolidation House	120 20-Apr-23	17-Aug-23	02-Dec-22	31-Mar-23	-139	CE0219d, S5ECHP1000	S5T1060, S5ECHT1000, PL1210	
nissioning	30 18-Aug-23	16-Sep-23						
SAT for Temporary Primary Sludge Pump	30 18-Aug-23	16-Sep-23					S5T1060	
E&M Installation of Lift-up Pumps & Associated Pipeworks / Valves	30 21-Nov-22	20-Dec-22	15-Feb-23	16-Mar-23	86	S4C1030, S4P1080, S4T1020	S5PSWT1010, PL1210	
sioning	421 26-Jan-24	21-Mar-25	01-May-23	04-May-24	-321			
	Road Lighting Installation Landscape Lighting Installation Delivery of Major Plant & Materials Fabrication & Delivery of SAS Pumping System Fabrication & Delivery of Stoplog Fabrication & Delivery of Penstock Fabrication & Delivery of Lifting Appliances Delivery of Control & Monitoring System / SCADA System Fabrication & Delivery of LV Switchboard Access to SAS Pumping Station (Impacted by NCE-NCE-219) E&M Installation of SAS Pumping System Installation of SCADA System / Control Monitoring System LV Switchboard Installation issioning SAT & System Commissioning Tests for SAS Pumping Station SAT of Switchboard Ready for Power Energisation ion House Delivery of Major Plant & Materials Fabrication & Delivery of Temporary Primary Sludge Pump E&M Installation of Existing Consolidation House issioning SAT for Temporary Primary Sludge Pump	Road Lighting Installation	Road Lighting Installation 160 01-Aug 23 27-Jan-24	Read Lighting Installation	Road Lighting Installation	Pool Lighting Installation 150 01-Aug-23 27-Jan-24 11-May-23 06-Nov-23 182	Pare Pare	Column C

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 54 of 58



Date	Revision	Checked	Approved		
31-Jul-22	Rev.24	LT	KM		
31-Aug-22	Rev.25	LT	KM		
30-Sep-22	Rev.26	LT	KM		
31-Oct-22	1-Oct-22 Rev.27		KM		
30-Nov-22	Rev.28	LT	KM		

Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start Late Finish	Total Predecessors Float	Successors	9 2020	2021	2022 J J J A	2023 J J J J J J J J J J J J J J J J J J J	2024 2025 2 JJA J JJA J 1 1 2 2 2 2 2 3 3 3 3 3
S5T1000	SAT of SCADA System	180 26-Jan-24	23-Jul-24	12-May-23 07-Nov-23	-259 S5TXRC1050, S5WS2C1180, S5WS2C1180, S5CHPC1120, S5CHPC1250, S5TXRC1050, S5TXRC1050, S5BIOC1060, S5THPC1050, S5SPSC1020, S5BIOC1050, S5HPC1030, S5PSWC1010, S5DOUC1050, S5SPSC1010, S5TCWC1030, S5FCDP1040, S5TCWC1030, S5FCDP1040, S5SHPC1030, S5FCDP1040, S5SHPC1030, S5SHPC1030, S5SHPC1030, S5SHPC1030, S5SHPC1030, S5SHPC1030, S5SHPC1030, S5SHPC1030, S5SHPC1030, S5SHPC1030, S5SHPC1030, S5SASC1020	S5T1040				3 3 4 3 4 4 4 4 4 4	
S5T1010	SAT of PMS	180 26-Jan-24	23-Jul-24	12-May-23 07-Nov-23	-259 S5TXRC1050, S5WS2C1180, S5WS2C1180, S5CHPC1120, S5CHPC1250, S5TXRC1050, S5DIGC1270, S5BIOC1060, S5THPC1050, S5SPSC1020, S5BIOC1050, S5HPC1040, S5H2SC1030, S5PSWC1010, S5DOUC1050, S5SPSC1010, S5TCWC1030, S5FCDP1040, S5SHPC1030, S5SHPC1030, S5SASC1020	S5T1040					
S5T1020	SAT of CMMS	180 26-Jan-24	23-Jul-24	12-May-23 07-Nov-23	-259 S5TXRC1050, S5WS2C1180, S5CHPC1120, S5CHPC11250, S5TXRC1050, S5DIGC1270, S5BIOC1060, S5THPC1050, S5SPSC1020, S5BIOC1050, S5THPC1040, S5H2SC1030, S5PSWC1010, S5DOUC1050, S5SPSC1010, S5TCWC1030, S5FCDP1040, S5TCWC1030, S5FCDP1040, S5SASC1020	S5T1040					

File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 55 of 58



Date	Revision	Checked	Approved
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30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

ctivity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9 2020 2021 2022 2023 2024 2025 2
S5T1030	SAT of IDMS	180 26-Jan-24	23-Jul-24	12-May-23	07-Nov-23	-259	S5TXRC1050, S5WS2C1180, S5WS2C1180, S5CHPC1120, S5CHPC1250, S5TXRC1050, S5DIGC1270, S5BIOC1060, S5THPC1050, S5SPSC1020, S5BIOC1050, S5THPC1040, S5H2SC1030, S5WGBC1030, S5PSWC1010, S5PSWC1010, S5PSWC1010, S5PSWC1010, S5TCWC1030, S5FSC1010, S5TCWC1030, S5TCWC1030, S5FCDP1040, S5SASC1020	S5T1040	
S5T1040	Overall Testing for Whole System	90 24-Jul-24	21-Oct-24	08-Nov-23	05-Feb-24	-259	S5T1000, S5T1010, S5T1020, S5T1030	SC51110, S5T1140	
T&C of E&M Pro	ocess	370 17-Mar-24	21-Mar-25	01-May-23	04-May-24	-321			
S5T1050	System Commissioning Tests for THP System	30 01-Apr-24	30-Apr-24	16-May-23	14-Jun-23	-321	S5EXAC1020,	S5T1120, S5T1080, S5T1110	
S5T1060	System Commissioning Tests for Sludge Dewatering System	30 17-Mar-24	15-Apr-24	01-May-23	30-May-23	-321	S5ECHC1000, S5DOUT1020, S5SPST1010, S5SAST1000, S5ECHT1000, S5SDBT1180, S5SDBT1181, S5SDBT1160, S5SDBT1160, S5SDBT1058, S5SDBT1058, S5SDBT1068, S5SDBT1068, S5SDBT1100, S5SDBT1100, S5SDBC11870, S5SDBC11870, S5SDBC11860, S5SDBC11870,	S5T1110, PL1520,	
S5T1070	System Commissioning Tests for Biogas Storage System	30 01-May-24	30-May-24	15-Jun-23	14-Jul-23	-321	S5T1080	S5T1120, S5T1110, S5S1070, S5T1100	
S5T1080	System Commissioning Tests for Sludge Digestion System	30 16-Apr-24	15-May-24	31-May-23	29-Jun-23	-321	S5T1050.	S5T1120, S5T1110, S5T1070	
S5T1090	System Commissioning Tests for Gas Burning System	30 31-May-24	29-Jun-24	15-Jul-23	13-Aug-23	-321	S5WGBT1010, S5T1100	S5T1120,	
S5T1100	System Commissioning Tests for CHP System	30 16-May-24	14-Jun-24	30-Jun-23	29-Jul-23		S5CHPT1030,	S5T1110 S5T1120, S5T1110, PL1560, S5T1090	

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File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 56 of 58



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 Nov 2022

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31-Aug-22	Rev.25	LT	KM
30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

vity ID	Activity Name	Original E Duration	arly Start	Early Finish	Late Start	Late Finish	Tota Floa	Predecessors	Successors				3 1 1 1				JAIIIJ	2025
S5T1110	Seeding	14 1	6-Jun-24	29-Jun-24	31-Jul-23	13-Aug-23	-32	1 S5T1090,	S5T1120	<u> </u>	<u>- - - - - -</u>	<u> - - - - - - - - - - - - - - - - - - -</u>	<u>- - - - - - </u>	<u>- - - - 1 2 3 :</u>	3373311111	<u> 1 1 1 1 2</u> 	3233232	23333333333
								S5T1070, S5T1080,										
								S5T1100, S5T1060,										
								S5T1050, S5SAST1000										
S5T1120	Process Start Up - Digester 1	120 3	30-Jun-24	27-Oct-24	14-Aug-23	11-Dec-23	-32	1 S5T1090, S5T1070.	S5T1150, S5T1130,									
								S5T1080, S5T1100,	S3T1140									
								S5T1060,										
								S5T1050, S5T1110,										
								S5S1080, S5TXRC1050,										
								S5SAST1000, S3T1130										
								0011100										
S5T1130	Notice to Commence Phase 1 System Commissioning - Digester 1		28-Oct-24	30-Oct-24		05-Feb-24			S5T1140	1							<u>L</u>	
S5T1140	Phase 1 System Commissioning - Digester 1	30 3	31-Oct-24	29-Nov-24	06-Feb-24	06-Mar-24	-268	8 S5T1130, S5T1040	S5T1180								-	
S5T1150	Process Start Up - Digester 2	120 2	22-Aug-24	19-Dec-24	06-Oct-23	02-Feb-24	-32	1 S5T1120	S5T1160	1							<u> </u>	
S5T1160	Notice to Commence Phase 1 System Commissioning - Digester 2		20-Dec-24	22-Dec-24	03-Feb-24				S5T1170								ı	
S5T1170	Phase 1 System Commissioning - Digester 2		23-Dec-24	21-Jan-25	06-Feb-24				S5T1180 S5T1190,	-								
S5T1180	Phase 2 System Commissioning - Digester 1 & 2	/ 2	22-Jan-25	28-Jan-25	07-Mar-24	13-Mar-24	-32	S5T1170, S5T1140	PL1310,								•	
0.5.7.1.0.0	Number of the second se			0.4 = 1.0=		20.14		, OFT	S3T1190									
S5T1190 S5T1200	Notice to Commence Plant Commissioning Plant Commissioning Tests		29-Jan-25 05-Feb-25	04-Feb-25 21-Mar-25		20-Mar-24 04-May-24			S5T1200 SC51110	-							_	
0011200	Tall Commissioning Toda	40 0	70 1 00 20	ZT Wat Zo	ZI Wai Z	OF May 24	02	S5S1020, S5TXRC1050,	0001110									
								S5WS2C1180,										
								S5S1150, S3T1170										
Statutory Submi	ssion / Inspection	1245 0	03-Oct-20 A	03-Oct-24	22-May-22	16-May-24	-140	0										
					1	1												
HKT Submission	un		26-Jan-24	23-Jul-24	U7-INOV-23	04-May-24												
S5S0990	Application of Telemetry Lines for Workshop No. 2.		26-Jan-24	23-Jul-24		04-May-24 12-Dec-22		S5WS2C1180	SC51110	-				. - - -	ļļ			
CLP Submissio				21-Nov-22														
S5S1000	Submission & Approval of Electrical Schematic Wiring Diagram to CLP	275 3	80-May-21 A	21-Nov-22	12-Dec-22	12-Dec-22	2 2	1	S5WS2C1040									
EPD Submission	on / Inspection	711 2	28-Aug-21 A	08-Aug-23	22-May-22	17-Nov-22	2 -264	4										
S5S1010	EPD Submission & Approval for Air Pollution Control - Genset	180 1	0-Feb-23	08-Aug-23	22-May-22	17-Nov-22	2 -264	4 S2D1860	S5SDBC1500	-				_				
S5S1020	EPD Submission & Approval for Air Pollution Control - CHP & Burner			21-Nov-22		04-Jun-22		_	S5T1200,	1		•	 					
									S5THPC1020, S5CHPC1020									
EMSD Submiss	sion / Inspection	1245 0	03-Oct-20 A	03-Oct-24	01-Jun-22	16-May-24	-140	0						+				
S5S1030	BEEO Stage one: Submit EE1 & EE-SU to EMSD	60 0	03-Oct-20 A	02-Dec-20 A	03-Aug-22	03-Aug-22)	S2D1890	S5WS2C1000									
	<u> </u>				_	_												
S5S1040	BEEO Stage two: Submit EE2 & EE-SU to EMSD)5-Aug-24	03-Oct-24		16-May-24			SC51120	1								
S5S1050	Application & Approval of the Zone Classification of Hazardous Area - including Fire Risk Assessment Report	180 1	0-NOV-21 A	30-Aug-22 A	01-Jun-22	01-Jun-22		S2D1070	S5S1070, S5S1060									
S5S1060	Application for Construction Approval of Notifiable Gas Installation (Form 104)	180 1	5-Nov-21 A	30-Aug-22 A	01-Jun-22	01-Jun-22	2	S2D1070,	S5S1070,	1				-				
S5S1070	Application for Approval of Use of Notifiable Gas Installation (Form 105)	20 1	7-May-24	13-Jun-24	03-Jul-23	3U- Int 33	210	S5S1050 9 S5S1060,	S5BIOC1020 S5S1080							·		
5551070	, white the state of the state	20 1	Iviay-24	10-0011-24	00-0ur-23	50-5ui-23	, -318	S5T1070,	3331000									
CEC1000	EMSD Inspection. Can Holding Tables	444	4 lun 04	27 lun 04	04 1-1 00	10 1 00	0.47	S5S1050	S5T1120	1								
S5S1080 S5S1090	EMSD Inspection - Gas Holding Tanks Form 5 Submission to EMSD - Lift Installation		4-Jun-24 31-Dec-23	27-Jun-24	28-Feb-24	13-Aug-23		9 S5S1070 9 S5WS2T1020,	S511120 S5S1100	1						•		
								S5SDBT1110		_								
S5S1100	EMSD Inspection - Lift Installation	7 3	30-Jan-24	05-Feb-24	29-Mar-24	04-Apr-24		9 S5S1090	S5S1110									
S5S1110 WSD Submission	Issuance of Form 6 - Lift Installation	V)1-Jul-21 A	06-Mar-24 28-Mar-24	11-Feh-23	04-May-24 04-May-24		9 S5S1100 7	SC51110					+		•		
		1002 0	, GUILTA	20 Mai 24	11-160-23	0-7 Iviay-24												
	FILLY DEPOSITOR TO THE PROPERTY OF												<u> </u>	Date	Revisior	n I C	hecked	Approved
	File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) - Remaining Work Critical Activity				-• •			ontract No.					3	1-Jul-22	Rev.24	LT		KM
	Layout, DL 1005 NF (NOV 2022) -		1		Shak \	v/ıı Hııi ⊑	ttluc	nt Poliching	Diant - Ma	n Marks S	tage 1				$\overline{}$	-		.——

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File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 57 of 58 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 Nov 2022

Date	Revision	Checked	Approved
31-Jul-22	Rev.24	LT	KM
31-Aug-22	Rev.25	LT	KM
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30-Nov-22	Rev.28	LT	KM

Activity ID	Activity Name	Original Early Start Duration	Early Finish	Late Start	Late Finish	Tota Float	Predecessors	Successors	9 2020 2021 2022 2023 2024 2025 26
S5S1120	Submit WWO46 Part I / II to WSD (FS/PD)	30 01-Jul-21 A	30-Jul-21 A	11-Feb-23	11-Feb-23		S2D1910, S2D1860, S2D1870, S2D1880, S2D1890, S2D1900	S5S1130, S5WS2C1140, S5SHPC1020, S5DIGC1300, S5WS2C1170	<u>- - - - - - - - - - - - - - - - - - - </u>
S5S1130	Submit WWO46 Part IV to WSD (FS)	0 20-Apr-23		22-Sep-23		155	S5S1120, S5WS2C1140, S5SHPC1020, S5SDBC1352, S5SDBC1152, S5SDBC1052	S5S1140, S5S1150	
S5S1140	WSD Inspection (FS)	28 04-May-23	31-May-23	06-Oct-23	02-Nov-23	155	S5S1130	S5S1250, S5S1150	
S5S1150	Issuance of FS Water Certificate	0	28-Jun-23		30-Nov-23	155	S5S1130, S5S1140	S5T1200, S5S1220	
S5S1160	Submit WWO46 Part IV to WSD (PD)	0 26-Dec-23		01-Feb-24		37	S5THPC1050, S5BIOC1060, S5SPSC1020, S5CHPC1240, S5CHPC1110, S5DIGC1300, S5WS2C1170, S5SDBT1150	S5S1170	*
S5S1170	WSD Inspection	7 09-Jan-24	15-Jan-24	15-Feb-24	21-Feb-24	37	S5S1160	S5S1180	
S5S1180	Issuance of Form WWO46 Part Va	0	29-Jan-24		06-Mar-24		S5S1170	S5S1200, S5S1190	
S5S1190	System Flushing / Sampling	45 30-Jan-24	14-Mar-24	07-Mar-24	20-Apr-24	37	S5S1180	S5S1200	
S5S1200	Issuance of Form WWO46 Part Vb	0	14-Mar-24		20-Apr-24	37	S5S1180, S5S1190	S5S1210	
S5S1210	Issuance of Water Certificate	0	28-Mar-24		04-May-24		S5S1200	SC51110	
FSD Submissio	n/Inspection	437 26-May-23	04-Aug-24	04-Sep-22	17-Mar-24	-140			
S5S1220	Prepare & Submit FSI/314 & FSI/501	14 19-Apr-24	02-May-24	01-Dec-23	14-Dec-23	-140	S5WS2C1150, S5S1310, S5S1150, S5EXAC1050, S5EXAC1060, S5CHPC1080, S5CHPC1210, S5CHPC1220, S5DIGC1280, S5DIGC1280, S5DIGC1290, S5SHPT1010, S5SDBT1048, S5SDBT1130, S5SDBT1140, S5SDBT1120	S5S1230	
S5S1230	FSD Review & Approval of FSI/314 & FSI/501	21 03-May-24	23-May-24	15-Dec-23	04-Jan-24	-140	S5S1220	S5S1240	
S5S1240	F.S. Inspection, Defects Redification & Re-inspection	45 24-May-24	07-Jul-24	05-Jan-24			S5S1230	S5S1250	
S5S1250	Issuance of Acceptance Letter	28 08-Jul-24	04-Aug-24	19-Feb-24	17-Mar-24		S5S1140	SC51110, S5S1040	
S5S1260	Application of D.G. Licence	0 26-May-23		04-Sep-22			S2D1860	S5S1270]
S5S1270	Processing of D.G. Licence Application	180 26-May-23	21-Nov-23		02-Mar-23			S5S1280	
S5S1280	Apply for D.G. Inspection	45 22-Nov-23	05-Jan-24	03-Mar-23	16-Apr-23	-264	S5S1270, S5CHPC1150, S5FCDC1020, S5SDBT1078	S5S1310, S5S1290	
S5S1290	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	45 06-Jan-24	19-Feb-24	17-Apr-23	31-May-23	-264	S5S1280	S5S1310, S5S1300	
S5S1300	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	45 20-Feb-24	04-Apr-24	01-Jun-23				S5S1310	
S5S1310	Issue D.G. Licence	14 05-Apr-24	18-Apr-24	16-Jul-23	29-Jul-23	-264	S5S1290, S5S1300, S5S1280	S5S1220, S5T1100	

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File Name: DE/2018/03 RP R28 Layout: DE1803 RP (Nov 2022) -WBS Page 58 of 58



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 Nov 2022

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30-Sep-22	Rev.26	LT	KM
31-Oct-22	Rev.27	LT	KM
30-Nov-22	Rev.28	LT	KM

·										Updated on:	20-Dec-22	
Item	Major Activities & Submission in coming 3 months		Tiı	me			Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent 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	WD14 C L CC. TD											
KD1A: Submission of civil and dimensional requirement drawing, electrical schematic drawings,	KD1A: Submission of Civil Requirement Drawing (Final)	8/28/2020	9/18/2020	11/5/2020	11/5/2020	Task Completed	no.	26	26	100%		
etc. from formation level up to +8mPD in accordance	(Final)	8/28/2020	9/18/2020	11/3/2020	11/3/2020	rask Completed	110.	20	20	100%		
with the contract requirement of Contract No.	KD1A: Submission of Electrical Schematic Drawing											
	(Final)	7/15/2020	7/15/2020	11/5/2020	11/5/2020	Task Completed	no.	11	11	100%		
_	KD1A: 6 November 2020											
KD1B: Submission of remaining civil and dimensional requirement drawings, electrical schematic drawing, etc. in accordance with the contract requirement of Contract No. DC/2018/07 to	KD1B: Submission of Civil Requirement Drawing (First Draft)	9/30/2020	9/28/2020	12/30/2020	3/31/2021	Task Completed	no.	47	47	100%		
carry out civil works construction	KD1B: Submission of Civil Requirement Drawing											
	(Final)	11/6/2020	11/5/2020	6/4/2021	6/4/2021	Task Completed	no.	47	47	100%		All the CWR Drawings were submitted.
	KD1B: 4 June 2021											
KD3A: 04SC010 - Dismantle & Removal of	Submission of subletting package for acceptance (C9)											
Emergency Generators in existing Power House		3/1/2020	2/24/2020	3/14/2020	4/22/2020	Task Completed				100%	-	Bestwise resubmitted on 22 April 2020
	Acceptance of subletting package (C9) Tender invitation (C9)	3/14/2020 4/1/2020	5/6/2020 5/15/2020	4/1/2020 4/15/2020	5/5/2020 5/22/2020	Task Completed Task Completed		-	-	100%	-	AECOM accepted subletting package on 5 May 2020 Invitation to tender was commenced on 12 May 2020 and tender returned on 22 May 2020
	Tender award (C9)	4/1/2020	5/22/2020	4/29/2020	5/26/2020	Task Completed 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		6/15/2020		7/25/2020	Task Completed				100%		
	Removal of emergency generators	6/1/2020	6/15/2020	6/30/2020	7/25/2020	Task Completed				100%		
KD3A: 04SC010 - Dismantle & Removal of Emergency Generators in existing Power House	KD3A: Testing and Comissioning	7/1/2020	7/3/2020	7/29/2020	7/29/2020	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	3/1/2020	3/25/2020	3/30/2020	4/27/2020	Task Completed		 	-	100%	_	Bestwise resubmitted onsite survey plan on 27 April 2020
	Acceptance of submission of onsite survey plan	3/1/2020	3/25/2020	3/30/2020		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	7/11/2020	7/20/2020	7/16/2020	7/30/2021	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	7/17/2020	8/6/2020	7/23/2020	8/6/2021	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)	12/2/2019	8/1/2020	4/13/2020	8/7/2020	Task Completed				100%		
	KD3B: Tender invitation - Clarifier (C11)	12/2/2019	8/14/2020	4/13/2020	8/26/2020	Task Completed				100%		
	KD3B: Tender Award - Clarifier (C11)	12/2/2019	8/26/2020	4/13/2020	9/25/2020	Task Completed Task Completed		-		100%		
	KD3B: Acceptance of tender award (C11) KD3B: Tender invitation - DI Pipe (C11)	12/2/2019 12/2/2019	9/11/2020 1/13/2021	4/13/2020 4/13/2020	9/18/2020 1/19/2021	Task Completed Task Completed				100%		
	KD3B: Tender Award - DI Pipe (C11)	12/2/2019	1/13/2021	4/13/2020	1/19/2021	Task Completed Task Completed			+	100%		
	KD3B: Tender Award - BT Tipe (C11) KD3B: Tender invitation - LCP (C11)	12/2/2019	2/3/2021	4/13/2020	2/5/2021	Task Completed			 	100/0		
	KD3B: Tender Award - LCP (C11)	12/2/2019	2/6/2021	4/13/2020	2/8/2021	Task Completed				100%		
	KD3B: Preparation of subletting package for dismantling work (C9)	12/2/2019	9/21/2020	4/13/2020	10/21/2020	Task Completed				100%		
	KD3B: Tender invitation for dismantling work (C9)	12/2/2019	11/12/2020	4/13/2020	11/19/2020	Task Completed				100%		
	KD3B: Tender Award for dismantling work (C9)	12/2/2019	11/20/2020	4/13/2020	11/22/2020	Task Completed				100%		
	KD3B: Acceptance of tender award for dismantling work (C9)	12/2/2019	11/23/2020	4/13/2020	12/1/2020	Task Completed				100%		

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Page Page	M accepted with comments on 5 May 2021.
	ation was provided on 1 Apr 2021 via email. again on 14 Apr 2021. Proposal submitted on 30 s on 13 May 2021.
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Equalization Tank Removal of Accumulated Sludge Inside PST No. 6 N/A S/19/2021 N/A S/19/2021 N/A S/19/2021 N/A S/19/2021 N/A S/19/2021 N/A S/19/2021 N/A S/19/2021 N/A S/19/2021 N/A S/19/2021 Task Completed 100% NCE-0229, this includes removal of floating sc drain pipe NCE-021, this includes PST Influent feed pipe, center be assembly, rotating bridge sludge & scum scrap notched weir plate, scum baffle plate, scum col KD3B: Electrical Installation of E&M Equipment at PST No. 6 KD3B: Electrical Installation of E&M Equipment at PST No. 6 KD3B: Electrical Installation of E&M Equipment at PST No. 6 KD3B: Electrical Installation of E&M Equipment at PST No. 6 KD3B: Electrical Installation of E&M Equipment at PST No. 6 KD3B: Electrical Installation of E&M Equipment at PST No. 6 KD3B: System Commissioning for PST No. 6 KD3B: System Commissioning for PST No. 4 & 6 N/A KD3B: System Commissioning for PST No. 4 &	21.
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No. 6 2/27/2021 6/9/2021 5/10/2021 7/21/2021 Task Completed KD3B: Testing and Comisssioning for PST No. 6 5/11/2021 6/9/2021 6/9/2021 Task Completed 100% Wet test (1st) completed on 20 Aug 2021 and volume test (1st) completed on 3 Sep 2 on 30 Aug 2021. Defect list (final) received on completed. Site training/ demonstration shall be modification work shall be completed by end N	aper assembly, circular baffle diffuser box, v-
5/11/2021 6/9/2021 8/20/2021 Task Completed 100% Wet test (1st) completed on 20 Aug 2021 and of Wet test (1st) completed on 20 Aug 2021 and of Wet test (1st) completed on 20 Aug 2021 and of Wet test (2nd) for PST#6 completed on 3 Sep 20 on 30 Aug 2021. Defect list (final) received on completed. Site training/ demonstration shall be modification work shall be completed by end No.	ng & terminations.
Primary Sedimentation Tank (PST) No. 4 and 6 N/A 6/22/2021 N/A 9/3/2021 Task Completed N/A 9/3/2021 Task Completed 100% wet test (21d) for 13 1#0 completed on 3 sep 2 on 30 Aug 2021. Defect list (final) received on completed. Site training/ demonstration shall b modification work shall be completed by end M	d wet test (2nd) completed on 3 Sep 2021.
KD3B: 9 June 2021	on 17 Sep 2021 and defect rectification was l be conducted by end Feb and PMI
Section 1 of Works (outstanding works list)	

				1 - 12 - 12 - 2 - 2	I	T 1 0 1 1	I I		1000/		In the state of th
	Submission of onsite survey plan for acceptance	3/1/2020	3/25/2020	3/30/2020	4/21/2020	Task Completed			100%	-	Bestwise resubmitted onsite survey plan on 21 April 2020
	Acceptance of submission of onsite survey plan	3/1/2020	3/25/2020	3/30/2020	5/12/2020	Task Completed			100%	-	Survey plan acceptance received on 12 May 2020. Onsite discussion with ST1 was
	Submission of onsite survey report	5/21/2020	5/21/2020	5/29/2020	5/29/2020	Task Completed			100%		
	Acceptance of onsite survey report	5/30/2020	5/30/2020	6/15/2020	6/15/2020	Task Completed			-		
	Preparation of procurement package (C11)	6/22/2020	6/22/2020	7/6/2020	7/14/2020	Task Completed		<u> </u>	100%		
	Tender invitation (C11)	7/15/2020	7/15/2020	7/22/2020	7/24/2020	Task Completed		 	100%		D : 1 AFGOM 210 (2020 T 1 : 1
	Tender Award (C11) Material Submission	7/23/2020	7/25/2020	7/29/2020	7/31/2020	Task Completed			100%		Revised survey report (second draft) was sent to AECOM on 21 Oct 2020. Technical
	Material Submission	8/21/2020	8/21/2020	8/28/2020	12/7/2020	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	12/1/2020	12/1/2020	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	3/1/2020	3/25/2020	3/30/2020	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	Submission of onsite survey plan on E&M aspects for							 			
(Sub-programme was provided by Bestwise)	acceptance	3/1/2020	4/1/2020	3/30/2020	5/7/2020	Task Completed			100%	-	Bestwise resubmitted onsite survey plan on 7 May 2020
	Acceptance of submission of onsite survey plan										
		3/1/2020	4/1/2020	3/30/2020	5/23/2020	Task Completed			100%	-	AECOM accepted the onsite survey plan on 23 May 2020
	Submission and Acceptance of ELS Design for Lifting Well	15/06/2020 -> 17/08/2020*	9/2/2020	30/07/2020 - > 30/11/2020*	2/9/2021	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										* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System
	Lifting Well Construction	15/06/2020 -> 17/08/2020*	9/2/2020	30/07/2020 - > 30/11/2020*	1/15/2021	Task Completed			100%		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**	9/2/2020	30/07/2020 - > 22/10/2020* *	1/15/2021	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**	9/2/2020	30/07/2020 - > 22/10/2020*	2/19/2021	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.
	Submission and Acceptance of Design of Formwork & Flasework Design for Construction of Lifting Well	15/06/2020 -> 17/08/2020*	9/2/2020	30/07/2020 -	1/15/2021	Task Completed			100%		- Design of Footing was submitted on 8 Feb 2021. -* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020.
	Submission and Acceptance of Contractor's Design for Temporary Filtrate Equalisation System (E&M Works) (CDS010-2)	01/06/2020 -> 7/9/2020**	7/5/2020	30/11/2020* 30/07/2020 - > 30/11/2020*	7/30/2021	Task Completed			-	Bestwise	- Bestwise submitted Rev.0 on 12 Jan 2020. *** = 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 Au 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*	9/29/2020	30/07/2020 - > 30/11/2020*	3/5/2021	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*	11/29/2020	30/07/2020 - > 30/11/2020*	2/25/2021	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	Tender invitation (C11) (EQT-002 & EQT-004)	4/17/2020	4/17/2020	5/7/2020	5/7/2020	Task Completed			100%		
Equalization System	Tender award (C11) (EQT-002 & EQT-004)	4/14/2020	4/24/2020	5/13/2020	5/13/2020	Task Completed			100%	Bestwise	Bestwise submitted tender report on 29 April 2020 for filtrate pumps, AECOM commented on 29 May 2020, Bestwise to resubmit.
	A	4/05/0050	4/07/0000	E/01/0000	E /0.1 /0.000	T. 1. 0 1 1 1			10007	D ()	Bestwise submitted tender report of instrument on 13 May 2020, AECOM noted on 26 Ma
	Acceptance of tender award (C11) (EQT-002 & EQT-	4/25/2020	4/25/2020	5/21/2020	5/21/2020	Task Completed		 	100%	Bestwise	** Change for the 1 farmer of the transfer of the 1 farmer of
	Material Submission	20/07/2020 ->	10/16/2020	20/08/2020 -	2/5/2021	Task Completed			-	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 18

	Submission of subletting package for acceptance (C9)	3/1/2020	7/13/2020	3/14/2020	7/13/2020	Task Completed		100%		
	Acceptance of subletting package (C9)	3/15/2020	7/14/2020	3/28/2020	7/14/2020	Task Completed	+ + + + + + + + + + + + + + + + + + + +	100%		
	Tender invitation (C9)	3/29/2020	7/14/2020	4/11/2020	7/22/2020	Task Completed Task Completed		100%		
	Tender invitation (C9) Tender award (C9)	4/12/2020	7/23/2020	4/25/2020	8/13/2020	Task Completed Task Completed		100%		
	Acceptance of tender award for civil construction work	4/12/2020	112312020	4/23/2020	0/15/2020	rask Completed	 	10070		
	(C9)	26/04/2020	8/14/2020	5/5/2020	9/2/2020	Task Completed		100%		
	Preparation of subletting package for mech work (C9)	01/08/2020 -> 01/12/2020*	1/25/2021	08/08/20 -> 08/12/2020*	3/1/2021	Task Completed	1	100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020.
	Tender invitation for mech work (C9)	08/08/20 ->	3/2/2021	15/08/2020 -	3/9/2021	Task Completed	1	100%		Subletting package would was submitted on 25 Feb 2021 and AECOM accepted on 1 Mar Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
	Tender Award for mech work (C9)	15/08/2020 ->	3/10/2021	22/08/2020 -	3/15/2021	Task Completed		100%		Tender report was submitted on 15 Mar 2021
	Acceptance of tender award for mech work (C9)	22/08/2020 ->	3/15/2021	29/08/2020 -	3/19/2021	Task Completed	1	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*	3/1/2021	Task Completed	1	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 ->	3/2/2021	15/08/2020 -	3/9/2021	Task Completed	1	100%		Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
	Tender Award for elect work (C9)	08/08/20 ->	3/10/2021	22/08/2020 -	3/15/2021	Task Completed	1	100%		Tender report was submitted on 15 Mar 2021
	Acceptance of tender award for elect work (C9)	15/08/2020 -> 15/12/2020*	3/15/2021	29/08/2020 - > 29/12/2020*	3/19/2021	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*	10/5/2020	10/15/2020	3/31/2021	Task Completed	1	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	11/7/2020	1/12/2021	12/30/2020	2/25/2021	Task Completed	1	100%		
	Construction of concrete plinth for filtrate EQ tank	1/23/2021	2/8/2021	2/1/2021	2/26/2021	Task Completed	1	100%		
	Offsite fabrication and delivery of filtrate EQ tank	10/31/2020	1/16/2021	2/2/2021	3/4/2021	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	3/1/2021	3/12/2021	4/16/2021	Task Completed	1	100%		
6B.2.16 Temporary Filtrate Equalisation System	Mechanical Installation	3/17/2021	3/30/2021	4/12/2021	5/14/2021	Task Completed		-		
	Electrical Installation	3/13/2021	3/29/2021	4/15/2021	12/10/2021	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	4/15/2021	4/22/2021	5/1/2021	11/30/2022	Completed		-		Defect rectification for BCM comments was partially completed and Site Acceptance Test (72 hours) was completed.
(D1170 H.L.)				-						D. I D. G
6B.1.17 Overall plant treatment process review by the Treatment Process Specialist	_	6/1/2020	6/1/2020	6/30/2020	7/2/2020	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
Treatment Flocess Specialist	Acceptance of submission for further design	6/14/2020	7/3/2020	6/30/2020	7/17/2020	Task Completed		-		process design evaluation was submitted on 20 May 2020. Design calculation submitted on
6B Overall plant process equipment sizing review	Submission of Contractor's Design Calculation for	6/1/2020	6/1/2020	6/30/2020	7/2/2020	Task Completed		-	Bestwise	Preliminary Draft submitted, meeting completed on 15 May 2020 with SRE and TPS. Initial
	Acceptance of submission for further detail design	6/14/2020	7/3/2020	6/30/2020	7/17/2020	Task Completed		-		
6B.2.1 Inlet Works	Submission of Contractor's Design for Inlet Works No. 1	9/6/2020	11/16/2020	5/14/2021	12/30/2022	99%		-	Bestwise	All finalized design calculations for Inlet Works no.1 shall be submitted by 30 Dec 2022.
	Submission of P&M Submission	9/6/2020	9/7/2020	5/14/2021	12/30/2022	99%				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 30 Dec 2022.
	Submission of P&ID Drawing	9/6/2020	9/6/2020	5/14/2021	12/29/2020	Task Completed				PID (rev.B) submitted on 13 Nov 2020. AECOM accepted subject to comments on 29 Dec 2020.
	Submission of GA Drawing	9/6/2020	1/5/2021	5/14/2021	12/30/2022	99%				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	9/6/2020	1/15/2021	5/14/2021	12/30/2022	99%				Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit.
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	12/30/2022	98%		_		All finalized drawings for Inlet Works no.1 shall be submitted by 30 Dec 2022.
	Submission of detailed design for electrical installation for Inlet Works No. 1 (CDS021)	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed				
	Submission of detailed design for LV Switchboards for Inlet Works No. 1 (CDS025-1)	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed				
İ				1		_				

	Submission of detailed design for electrical installation BS for Inlet Works No. 1 (CDS034-1)	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	Submission of civil work requirements for Inlet Works No. 1 up to +8.0 mPD (CDS080-1)	9/1/2020	9/1/2020	10/30/2020	10/30/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Inlet Works No. 1 up to +8.0 mPD (First Draft))	7/15/2020	7/15/2020	8/15/2020	9/17/2020	Task Completed	no.	3	3	100%		1st draft of drawing submitted on 17 September 2020
	KD1A: Submission of civil requirement drawing for	8/28/2020	9/18/2020	11/5/2020	11/5/2020	Task Completed	no.	3	3	100%	Bestwise	Bestwise resubmitted (rev.A) on 27 Oct 2020.
	Inlet Works No. 1 up to +8.0 mPD (Final) KD1A: Submission of electrical schematic drawings for					*					Destribe	` '
	Inlet Works No. 1 (First Draft) KD1A: Submission of electrical schematic drawings for	7/15/2020	7/15/2020	8/15/2020	9/30/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 30 September 2020
	Inlet Works No. 1 (Final)	9/7/2020	10/1/2020	11/5/2020	10/20/2020	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	9/6/2020	12/28/2020	5/14/2021	12/30/2022	99%				-	Bestwise	PFD (rev.B) under DWG0004 submitted on 22 June 2021. Finalized design calculations for PST shall be submitted by 30 Dec 2022.
	Submission of P&M Submission											
		9/6/2020	11/26/2020	5/14/2021	12/30/2022	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 30 Dec 2022.
	Submission of P&ID Drawing	9/6/2020	10/2/2020	5/14/2021	6/24/2021	Task Completed						PID under DWG0037 (rev.1) submitted on 24 June 2021 and is accepted by AECOM.
	Submission of GA Drawing	9/6/2020	2/3/2021	5/14/2021	12/30/2022	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.
	Submission of Electrical Drawing											Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to
		9/6/2020	1/15/2021	5/14/2021	12/30/2022	99%						resubmit. Finalized drawings for PST shall be submitted by 30 Dec 2022.
	Acceptance of submission	5/15/2021	4/2/2021	5/29/2021	12/30/2022	98%				-		Refer to outstanding list under "Certificate of completion no.1 - section 1 of the works".
	Submission of detailed design for electrical installation	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	Submission of detailed design for LV Switchboards for Primary Sedimentation Tanks (CDS025-2)	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	Submission of detailed design for electrical installation	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	Submission of civil work requirements for Primary Sedimentation Tanks up to +8.0 mPD (CDS080-2)	9/1/2020	9/1/2020	10/30/2020	10/30/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Primary Sedimentation Tanks No. 1-4 up to +8.0 mPD	7/15/2020	7/15/2020	8/15/2020	9/30/2020	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	8/28/2020	10/1/2020	11/5/2020	11/5/2020	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)	7/15/2020	7/15/2020	8/15/2020	9/30/2020	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)	9/7/2020	10/1/2020	11/5/2020	10/20/2020	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)	9/6/2020	1/7/2021	5/14/2021	10/29/2021	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	9/6/2020	9/6/2020	5/14/2021	10/30/2021	Task Completed						Finalized material submissions for chemical system was submitted on 30 Oct 2021.
	Submission of P&ID Drawing	0/57-										PID resubmitted under DWG0053 (rev.1) on 28 Jun 2021, DWG0057 (rev.1) on 29 Jun
		9/6/2020	12/11/2020	5/14/2021	6/29/2021	Task Completed						2021 and DWG0058 (rev.1) on 29 Jun 2021.

		9/6/2020	2/8/2021	5/14/2021	12/30/2022	99%						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	9/6/2020	1/15/2021	5/14/2021	12/30/2022	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 30 Dec 2022.
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	12/30/2022	98%				-		
	Submission of detailed design for electrical installations	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	Submission of detailed design for electrical installations Submission of detailed design for electrical installations	9/6/2020 9/6/2020	9/6/2020 9/6/2020	5/14/2021 5/14/2021	5/14/2021 5/14/2021	Task Completed Task Completed						
	Submission of detailed design for electrical installation	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	KD1A: Submission of civil requirement drawing for	7/15/2020	7/15/2020	8/15/2020	9/16/2020	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 KD1A: Submission of electrical schematic drawings for	9/7/2020 7/15/2020	9/17/2020 7/15/2020	11/5/2020 8/15/2020	11/5/2020 9/15/2020	Task Completed Task Completed	no.	2	2	100%		Bestwise resubmitted (Rev.A) on 5 Nov 2020. 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)	9/7/2020	9/16/2020	11/5/2020	11/5/2020	Task Completed						13st draft of drawing to be submitted by 10 September 2020
	KD1A: Submission of civil requirement drawing for Temporary Chemical System up to +8.0 mPD (First	7/15/2020	7/15/2020	8/15/2020	9/15/2020	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)	9/7/2020	9/16/2020	11/5/2020	11/5/2020	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)	7/15/2020	7/15/2020	8/15/2020	9/15/2020	Task Completed				-		1st draft of drawing to be submitted by 16 September 2020
	KD1A: Submission of electrical schematic drawings for	9/7/2020	9/16/2020	11/5/2020	11/5/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.4 Membrane Bioreactor (MBR) System - Bio Reactor 2A and 2B	Submission of Contractor's Design for Bioreactor 2A and 2B (CDS004)	9/6/2020	1/12/2021	5/14/2021	12/30/2022	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 30 Dec 2022.
	Submission of P&M Submission	9/6/2020	11/26/2020	5/14/2021	12/30/2022	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 30 Dec 2022.
	Submission of P&ID Drawing	9/6/2020	11/2/2020	5/14/2021	7/2/2021	Task Completed						PID (Rev.1) under DWG0042 resubmitted on 6 July 2021.
	Submission of GA Drawing	9/6/2020	2/17/2021	5/14/2021	12/30/2022	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	9/6/2020	1/15/2021	5/14/2021	12/30/2022	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Finalized drawing shall be submitted by 30 Dec 2022.
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	12/30/2022	98%				-		Refer to outstanding list under "Certificate of completion no.1 - section 1 of the works".
	Submission of detailed design for electrical installation Submission of detailed design for LV Switchboards for BR 2A and 2B (CDS025-3)	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed Task Completed						
	Submission of detailed design for electrical installation	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	Submission of civil work requirements for BR 2A and 2B up to +8.0 mPD (CDS080-3)	9/1/2020	9/1/2020	10/30/2020	10/30/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for BR 2A and 2B up to +8.0 mPD (First Draft)	7/15/2020	7/15/2020	8/15/2020	9/30/2020	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)	8/28/2020	10/1/2020	11/5/2020	11/5/2020	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)	7/15/2020	7/15/2020	8/15/2020	9/30/2020	Task Completed				-		1st draft of drawing was sent to AECOM via email on 15 September 2020
	KD1A: Submission of electrical schematic drawings for KD1A: 6 November 2020	9/7/2020	10/1/2020	11/5/2020	11/5/2020	Task Completed						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)	9/6/2020	1/11/2021	5/14/2021	12/30/2022	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.

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	Submission of P&M Submission											P&M0072 - Membrane Module (status: B)
												P&M0069 - Permeate Pump (status: B)
												P&M0047 - RAS Pump (status: B)
												P&M0050 - Drain Pump (status: B)
		9/6/2020	11/19/2020	5/14/2021	12/30/2022	99%						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 30 Dec 2022.
	Submission of P&ID Drawing	9/6/2020	10/30/2020	5/14/2021	7/2/2021	Task Completed						DWG0049 (Rev.1) was resubmitted on 2 Jul 2021.
	Submission of GA Drawing					1						DWG0121 (rev.1) was resubmitted to AECOM on 17 Jul 2021
	Succession of O.I. Brawing											Finalized drawings shall be submitted by 30 June 2022.
		3/31/2021	2/18/2021	5/14/2021	12/30/2022	99%						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											Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to
		4/15/2021	1/15/2021	5/14/2021	12/30/2022	99%						resubmit.
		4/13/2021	1/13/2021	3/14/2021	12/30/2022	7770						Electrical GA under DWG0079 (rev.1) was resubmitted on 8 Jul 2021.
												Finalized drawings shall be submitted by 30 Dec 2022.
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	12/30/2022	98%				-		
	Submission of detailed design for electrical installation	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	Submission of detailed design for LV Switchboards for Submission of detailed design for electrical installation	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	BS for MFB (CDS034-4)	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	Submission of civil work requirements for MFB up to	9/1/2020	9/1/2020	9/30/2020	9/30/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for	7/15/2020	7/15/2020	8/15/2020	9/30/2020	Task Completed	no.	7	7	100%		1st draft of drawing submitted on 30 September
	KD1A: Submission of civil requirement drawing for	8/28/2020	10/1/2020	11/5/2020	11/5/2020	Task Completed	no.	7	7	100%	Bestwise	Bestwise resubmitted (Rev.1) on 5 Nov 2020.
	MFB No. 2 up to +8.0 mPD (Final) KD1A: Submission of electrical schematic drawings for	7/15/2020	7/15/2020	8/15/2020	9/30/2020	Task Completed	no.	3	3	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for					•	110.					
	MFB No. 2 (Final)	9/7/2020	10/1/2020	11/5/2020	10/20/2020	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	Tender invitation (C11)											
(EQT-001 - Deodorization Unit)	Tender invitation (C11)	4/17/2020	4/17/2020	4/24/2020	4/24/2020	Task Completed				100%		
6B.2.6 Deodorisation System	Tender award (C11)					m 1 0 1 1 1				1000/		Bestwise submitted tender report on 13 May 2020. AECOM commented on 23 July 2020,
(EQT-001 - Deodorization Unit)		4/25/2020	4/25/2020	5/12/2020	5/12/2020	Task Completed				100%	Bestwise	Bestwise to resubmit.
	Acceptance of tender award (C11)	5/13/2020	5/13/2020	5/21/2020	5/21/2020	Task Completed				100%		
	Submission of Contractor's Design for Deodorisation											Design Coloration (Bossel) was submitted an 24 Nov. 2020 AECOM assumented as 6 Lan
	System, DOU No. 1 (CDS0019 & CDS0045)	9/6/2020	9/6/2020	5/14/2021	12/31/2021	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.
		7/0/2020	7/0/2020	3/14/2021	12/31/2021	rask Completed						Finalized design was completed.
	Submission of P&ID Drawing of DOU No. 1											Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13
	Submission of Faild Drawing of DOC No. 1	9/6/2020	8/5/2020	5/14/2021	7/2/2021	Task Completed				-	Bestwise	Apr 2021.
	Submission of GA Drawing of DOU No. 1											GA 1 % 1 21 X 2021
		9/6/2020	9/6/2020	5/14/2021	12/30/2022	99%						GA submitted on 21 Jun 2021 Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is
		9/0/2020	9/0/2020	3/14/2021	12/30/2022	9970						scheduled on 11, 18, 25/5/2022.
	Submission of Electrical Drawing of DOU No. 1											Control wiring diagrams was resubmitted on 1 April 2021. AECOM commented on 23 Apr
		3/21/2021	1/30/2021	5/14/2021	12/30/2022	99%						2021. Bestwise to resubmit.
												Finalized drawings shall be submitted by 30 Dec 2022.
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	12/30/2022	98%				-		
	KD1A: Submission of civil requirement drawing for Deodorisation System, DOU No. 1 up to +8.0 mPD	7/15/2020	7/15/2020	0/15/2020	0/20/2020	Took Committee 1		1	1	1000/		Let dueft of duraning was submitted 20 St
	(First Draft)	7/15/2020	7/15/2020	8/15/2020	9/28/2020	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	8/28/2020	9/29/2020	11/2/2020	11/5/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise resubmitted (rev.1) on 5 Nov 2020.
	(Final)											` ′
	Submission of Contractor's Design for Deodorisation											
	System, DOU No. 2A (CDS0019 & CDS0048)	9/6/2020	9/6/2020	5/14/2021	12/10/2021	Task Completed				-		CDS0019: Design Calculation for Deodorisation System (status: B) CDS0048: Design Calculation on DOU2A - air extraction fan (status: B)
												CD 500 TO. Design Canculation on DOCAA - all Cataction Idii (Status, D)
	Submission of P&ID Drawing of DOU No. 2A											Davis da la contraction de la
		9/6/2020	8/5/2020	5/14/2021	7/2/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
												1191 2021.
	Submission of GA Drawing of DOU No. 2A											Bestwise submitted (rev.1) on 30 Nov 2020. AECOM commented on 16 Dec 2020.
	İ	9/6/2020	8/3/2020	5/14/2021	12/30/2022	99%				_	Bestwise	Bestwise to resubmit.
					1		I	l	I	I		Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is
		7/0/2020										
	Submission of Electrical Drawing of DOUNG 24	7/0/2020										scheduled on 1, 8, 15/6/2022.
	Submission of Electrical Drawing of DOU No. 2A			5/14/2021	12/20/2022	000/						Bestwise submitted (rev.0) on 26 Jan 2021, AECOM commented on 4 Feb 2021. Bestwise
	Submission of Electrical Drawing of DOU No. 2A	3/21/2021	1/26/2021	5/14/2021	12/30/2022	99%						Bestwise submitted (rev.0) on 26 Jan 2021, AECOM commented on 4 Feb 2021. Bestwise to resubmit.
	Submission of Electrical Drawing of DOU No. 2A Acceptance of submission			5/14/2021 5/29/2021	12/30/2022	99%						Bestwise submitted (rev.0) on 26 Jan 2021, AECOM commented on 4 Feb 2021. Bestwise

	Submission of Contractor's Design for Deodorisation System , DOU No. 3A (CDS0019 & CDS0055)	9/6/2020	9/6/2020	5/14/2021	12/10/2021	Task Completed				_		CDS0019: Design Calculation for Deodorisation System (status: B)
	Submission of P&ID Drawing of DOU No. 3A	9/6/2020	8/5/2020	5/14/2021	7/2/2021	Task Completed				_	Bestwise	CDS0055: Design Calculation on DOU3A - air extraction fan (status: B) Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13
	Submission of GA Drawing of DOU No. 3A	9/6/2020	7/8/2020	5/14/2021	12/30/2022	99%				-	Bestwise	Apr 2021. Bestwise submitted (rev.1) on 28 Oct 2020. AECOM commented 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
	Submission of Electrical Drawing of DOU No. 3A	3/21/2021	2/26/2021	5/14/2021	12/30/2022	99%						scheduled on 27/4/2022, 4, 11/5/2022. 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 30 Dec 2022.
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	12/30/2022	98%						Finalized drawing shall be submitted by 30 Dec 2022.
	KD1A: Submission of civil requirement drawing for									1000/		
	Deodorisation System, DOU No. 3A up to +8.0 mPD	7/15/2020	7/15/2020	8/15/2020	9/28/2020	Task Completed	no.	1	1	100%		1st draft of drawing was submitted on 28 September 2020
	KD1A: Submission of civil requirement drawing for	8/28/2020	9/29/2020	11/2/2020	11/5/2020	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. 3B (CDS0019 & CDS0049)	9/6/2020	9/6/2020	5/14/2021	12/10/2021	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	9/6/2020	8/5/2020	5/14/2021	7/2/2021	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	9/6/2020	9/6/2020	5/14/2021	12/30/2022	99%						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	3/21/2021	2/22/2021	5/14/2021	12/30/2022	99%						GA submitted on 24 Jun 2021 Finalized drawing shall be submitted by 30 Dec 2022.
	Acceptance of submission Submission of detailed design for electrical installation	5/15/2021 9/6/2020	5/15/2021 9/6/2020	5/29/2021 5/14/2021	12/30/2022 5/14/2021	98% Task Completed			-	-		
	Submission of detailed design for electrical installation Submission of detailed design for LV Switchboards for	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed Task Completed						
	Submission of detailed design for electrical installation	9/6/2020	9/6/2020	5/14/2021	5/14/2021	Task Completed						
	Submission of civil work requirements for MFB up to	9/1/2020	9/1/2020	9/30/2020	9/30/2020	Task Completed						
	Submission of civil requirement drawing for MFB up to KD1A: Submission of electrical schematic drawings for	8/28/2020 7/15/2020	8/28/2020 7/15/2020	11/2/2020 8/15/2020	11/2/2020 9/30/2020	Task Completed Task Completed				_		1st draft of drawing to be submitted by 30 September 2020
	KD1A: Submission of electrical schematic drawings for	9/7/2020	10/1/2020	11/5/2020	11/5/2020	Task Completed						13t didt of didwing to be submitted by 30 September 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
04SC008 - Design, Supply and Installation of detailed	Acceptance of tender award (C0)		_	_	7/6/2020	Task Completed				100%		AECOM accepted tender report on 6 July 2020.
design for lifting appliances	Submission of detailed design for lifting appliances for	-	-	-	77072020	rask Completed				10070	-	
	Inlet Works No. 1 (CDS050-1)	9/6/2020	12/5/2020	9/6/2020	12/30/2022	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 30 Dec 2022.
	Submission of detailed design for lifting appliances for Primary Sedimentation Tanks (CDS050-2)	9/6/2020	12/5/2020	9/6/2020	12/30/2022	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 30 Dec 2022.
	Submission of detailed design for lifting appliances for BR 2A and 2B (CDS050-3)	9/6/2020	12/5/2020	9/6/2020	12/30/2022	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 30 Dec 2022.
	Submission of detailed design for lifting appliances for MFB (CDS050-4)	9/6/2020	12/5/2020	9/6/2020	12/30/2022	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 30 Dec 2022.
	Submission of detailed design for lifting appliances for Temporary Filtration Tank (CDS050-5)	9/6/2020	12/5/2020	9/6/2020	5/21/2021	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									 		Design calculations and drawings for inlet works was submitted on 16 Dec 2020. AECOM
Bunding Services System	Submission for 141 v AC System	N/A	12/10/2020	N/A	12/30/2022	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 30 Dec 2022.
	Submission for Fire Services System	N/A	3/15/2021	N/A	12/30/2022	98%						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 30 Dec 2022.

Policitation for Principle and Distance System NA \$119.00 NA \$19.00 1.00	
NA 13 10 10 10 10 10 10 10	
Mathematical Registration Mathematical Registration	
No. 39.5000 No. 120.0002 99%	ented on 30 Mar 2021.
Secondario for FMS system N/A 21/00/202 99%	
Sometission for CAMES & IDMS system	and tender package is
Section 2 of Works	
Section 2 of Works	
Street Fire Hydrand Pump Room	
EDIA Submission of civil requirement driving for 18,000 11,0	
RDIA Submission of civil requirement driving for RDIA	
NDIA: Submission of electrical submantial drawings for 715/2000 101/2000 115/2000 715/2000 115/2000 715/200	
SDIA: Submission of electrical submusted deavings for 507/0200 101/2020 115/2020	·
F. & Sprinkler Pump Room KD1A: Submission of civil requirement drawing for FS 7/15/200 7/15/200 8/15/200 9/17/200 Task Completed no. 1 1 100% 1 100% 1 1 100% 1 1 100% 1 1 100% 1 1 1 1 1 1 1 1 1	
No. No.	
No. No.	
Emergency Generator House KDLA: Submission of electrical schematic drawings for Emergency Generator House KDLA: Submission of evil requirement drawing for Emergency Generator House up to 1-86 on PD (first Emergency Generator House up to 1-86 on PD) (first Emergency Generator House to 1-86 on PD) (first Emergency Generator House to 1-86 on PD) (first Emergency Generator House) (first Emergency Generator House) (first Emergency Generator House) (first Emergency Generator House) (first Emergency Generator Ho	
Emergency Generator House SDIA: Submission of civil requirement drawing for Emergency Generator House with the submission of electrical schematic drawings for Emergency Generator House with the State of Emergency Generator House with the	
Emergency Generator House KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generation House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of civil requirement drawing for Emergency Generator House up to *8.0 mPD (First) KD1A: Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings for Submission of Celetrical Schematic drawings	
Emergency Generator House up to +8.0 mPD (First KD1A: Submission of civil requirement drawing for Emergency Generator House up to +8.0 mPD (Final)	
Emergency Generator House up to +8.0 mPD (Final) 828/20/20 11/5/	
KDIA: Submission of electrical schematic drawings for Street Fire Hydrant Pump Room (Final) Notice of Completion works was submitted on 17 Nov 2020	
Street Fire Hydrant Pump Room (Final) 9/1/202 1/1/	
KDIA: 6 November 2020 Notice of completion works was submitted on 17 Nov 2020	
Eightning Protection System for DOU3A (underground)	
Example Exam	
Signature Sign	
Lightning Protection System for Inlet Works (underground) Submission and Acceptance for Lightning Protection System Design Material Delivery 12/15/2022 1/31/2022	
(underground) System Design 12/20/2021 12/20/2021 1/31/2022 1/31/2022 Material Delivery 12/15/2022 10/1/2022 3/31/2022 10/31/2022 Installation Work 3/15/2022 11/1/2022 10/30/2022 12/14/2022 Underground works subject to site coordination with JV.	
Installation Work 3/15/2022 10/30/2022 12/14/2022 Underground works subject to site coordination with JV.	
Installation Work 3/15/2022 11/1/2022 10/30/2022 12/14/2022 Underground works subject to site coordination with JV.	
Testing & Commissioning 11/1/2022 12/15/2022 11/15/2022 12/31/2022	
Section 3 of Works	
6B.2.12 Provision of New Replacement Filter Plates Submission of onsite survey plan for acceptance 3/1/2020 3/30/2020 4/21/2020 Task Completed 100% - Bestwise resubmitted onsite survey plan on 21 April 2020	
Acceptance of submission of onsite survey plan 3/1/2020 3/25/2020 3/30/2020 5/12/2020 Task Completed 100% - Survey plan acceptance received on 12 May 2020. Onsite discussion of the control of the contr	on with ST1 was
Submission of onsite survey report 5/21/2020 5/29/2020 5/29/2020 Task Completed 100% Acceptance of onsite survey report 5/30/2020 5/30/2020 6/15/2020 6/15/2020 Task Completed -	
Acceptance of offsite survey report 3/30/2020 3/30/2020 6/13/2020 6/13/2020 1ask Completed -	
Tender invitation (C11) 7/15/2020 7/15/2020 7/22/2020 7/24/2020 Task Completed 100%	
Tender Award (C11) 7/23/2020 7/29/2020 7/31/2020 Task Completed 100% Revised survey report (second draft) was sent to AECOM on 21 Oct (P2 10 Prince Street P	
6B.2.12 Provision of New Replacement Filter Plates for Existing Membrane Filter Presses at Existing Sludge Press House Material Submission 8/21/2020 8/28/2020 12/7/2020 Task Completed Material Submission (Rev. 1) resubmitted on 7 Dec 2020. AECOM comments on 24 Dec 2020. Material submission (Rev. 2) resubmitted on 12 Jan 2021. AECOM 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	12/1/2020	12/1/2020	8/8/2021	7/13/2021	Task Completed	- Handed over to DSD.
	Completion Date of Section 3: 22 September 2021						
	Completion Date of Section 3: 22 September 2021						
Subcontracting							
	Submission of subletting package for acceptance						
		1/1/2020	3/6/2020	3/30/2020	3/6/2020	Task Completed	100% -
	Acceptance of subletting package	3/1/2020	3/21/2020	3/30/2020	3/21/2020	Task Completed	100% -
	Tender invitation	3/1/2020	3/24/2020	4/1/2020	3/30/2020	Task Completed	100% -
	Tender award	3/22/2020		4/14/2020	4/6/2020	Task Completed	Bestwise submitted tender report on 6 April 2020
	Acceptance of tender award	-	-	-	4/15/2020	Task Completed	AECOM accepted tender report on 15 April 2020
Construction of <i>Contractor</i> 's site accommodation in WA1-C	Design of MiC	4/15/2020	4/16/2020	6/1/2020	8/15/2020	Task Completed	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	7/1/2020	7/1/2020	7/14/2020	9/4/2020	Task Completed	Design calculation of foundation work was submitted on 7 July 2020, comment received 27 July 2020. Bestwise to resubmit.
	Site Clearence Work	7/15/2020	7/20/2020	7/31/2020	8/15/2020	Task Completed	Tender invitation commenced on 29 May 2020 and tenders received on 4 June 2020. Ter
	Off-site fabrication of Septic tank Submission of method statement with ICE certificate	7/15/2020 8/1/2020	7/20/2020 8/1/2020	7/31/2020 8/7/2020	7/31/2020 10/8/2020	Task Completed Task Completed	100% Site clearence work started on 20 July 2020
	Submission of method statement with ICE certificate Submission of design calculation with ICE certificate	8/1/2020	8/1/2020	8/7/2020	10/8/2020	Task Completed Task Completed	100% CV of ICE was submitted on 4 August 2020 and accepted on 25 August 2020 100% Design calculation of foundation work was submitted on 7 July 2020, comment received
	Acceptance of method statement and design calculation	8/8/2020	10/9/2020	8/14/2020	10/16/2020	Task Completed	100% Method Statement and Design Calculation was submitted on 8 Oct 2020.
	Submission of method statement with ICE certificate	8/1/2020	8/1/2020	8/7/2020	11/23/2020	Task Completed	100%
	Submission of design calculation with ICE certificate Acceptance of method statement and design calculation	8/1/2020 8/8/2020	8/1/2020 11/24/2020	8/7/2020 8/14/2020	11/23/2020 11/27/2020	Task Completed Task Completed	100%
	Excavation work	8/8/2020	10/21/2020	8/14/2020	10/21/2020	Task Completed Task Completed	100%
	Installation of septic tank	8/19/2020	10/21/2020	8/20/2020	10/22/2020	Task Completed	100%
	Construction of RC foundation	8/21/2020	10/23/2020	8/31/2020	11/12/2020	Task Completed	100%
	Off-site fabrication and delivery of MiC Office On-site installation of MiC Office	6/1/2020 8/1/2020	9/30/2020 12/4/2020	7/31/2020 8/30/2020	12/4/2020 1/5/2021	Task Completed Task Completed	100%
	Installation of car park shelter	1/4/2021	1/7/2021	1/11/2021	1/9/2021	Task Completed	100% Subject to the completion of car park shelter of PM office and JEC office.
OACCOOL DITE IS SOMETHING							
04SC003 - Building Information Modeling (BIM)	Submission of subletting package for acceptance (C9)	3/1/2020 3/14/2020	3/25/2020 4/2/2020	3/14/2020 3/30/2020	3/25/2020	Task Completed Task Completed	100% -
	Acceptance of subletting package (C9) Tender invitation (C9)	4/1/2020	4/2/2020	4/8/2020	4/2/2020 4/9/2020	Task Completed Task Completed	100% -
	Tender award (C9)	-	-	-	4/15/2020	Task Completed	100% - Bestwise submitted tender report on 15 April 2020
	Submission of subletting package for acceptance	3/14/2020	3/16/2020	3/30/2020	4/20/2020	Task Completed	100% - Bestwise resubmitted on 20 April 2020
	Acceptance of subletting package	3/28/2020	5/4/2020	4/13/2020	5/13/2020	Task Completed	100% - AECOM accepted subletting package on 13 May 2020
	Tender invitation	4/11/2020	6/19/2020	4/27/2020	6/26/2020	Task Completed	Invitation to tender was commenced on 19 June 2020 and tender returned on 26 June 2020
	Tender award	4/25/2020	6/27/2020	5/11/2020	7/4/2020	Task Completed	- Bestwise submitted tender report on 30 June 2020
	Acceptance of tender award	-	-	-	7/18/2020		
04SC007 - Independent Beam Plus Consultant	Submission of subletting package for acceptance	3/1/2020	3/30/2020	3/14/2020	3/30/2020	Task Completed	100% -
	Acceptance of subletting package	3/14/2020	4/3/2020	3/30/2020	4/3/2020	Task Completed	100% -
	Tender invitation						
	Tender award	3/30/2020	3/30/2020	4/9/2020	4/9/2020	Task Completed	100% - Destrois submitted to describe 15 April 2020
	Acceptance of tender award	-	-	-	4/15/2020	Task Completed	Bestwise submitted tender report on 15 April 2020
	Introduction meeting with IBPC, Cinotech	-	-	-	4/17/2020	Task Completed	100% - AECOM accepted tender report on 17 April 2020
	introduction meeting with 151 C, Chiotech	-	-	-	4/28/2020	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)	4/1/2020	3/17/2020	4/14/2020	3/17/2020	Task Completed	100% - Bestwise submitted subletting package on 3 April 2020
	Acceptance of subletting package (C9)	4/14/2020	4/17/2020	4/30/2020	4/28/2020	Task Completed	100% - AECOM accepted subletting package on 28 April 2020
	Tender invitation (C9) Tender award (C9)	4/30/2020 5/14/2020	5/6/2020 5/29/2020	5/14/2020 5/30/2020	5/28/2020 6/9/2020	Task Completed Task Completed	Invitation to tender was commenced on 6 May 2020 and tender returned on 28 May 2020 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 ->	8/14/2020	15/05/2020 -	8/27/2020	Task Completed Task Completed	100% - Bestwise submitted tender report on 9 June 2020. 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*	8/15/2020	15/06/2020- > 15/8/2020*	0/16/2020	Task Completed	- *=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*	10/14/2020	Task Completed	- *=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 Sc 2020 Tender invitation for mechanical installation was conducted on 29 Sept 2020, tender returned on 14 Oct 2020.

200-2006-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	m 1 (20) 2 (1)									L C
Amagement of China Amagement (170 Am	Tender award (C9) (Mech)		9/17/2020		10/22/2020	Task Completed		100%		- 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
Section 1978	Acceptance of tender award (C9) (Mech)	-	-	-	11/16/2020	Task Completed		100%		
Approximate of Asserting Principle (A. P.) (Care) Approximation (A. P.) (Approximation	Submission of subletting package (C9) for acceptance	1	12/9/2020	>	1/28/2021			100%		
Table	Acceptance of subletting package (C9) (Elect)	30/05/2020 ->	1/29/2021	15/06/2020-	2/1/2021	Task Completed		100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020.
Total count (CO) (Theor)	Tender invitation (C9) (Elect)	15/06/2020->	2/1/2021	22/06/2020-	2/11/2021	Task Completed		100%		
Part Complete Co	Tender award (C9) (Elect)	1	2/11/2021	1	2/23/2021	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.
100% 200	A				2/26/2021	Tools Commissed		1000/		- Tender report target submitted on 23 Feb 2021 and accepted on 24 Feb 2021
24 2007 20	•	-	-	-	2/26/2021	rask Completed		100%		- *-Corresponding PIVII NO.009 and CE NO.009 were issued by AECONI on 14 July 2020.
Appropriate of lender award (C1) 200-200-200-200-200-200-200-200-200-200			4/30/2020	>	11/18/2020	Task Completed		100%	Bestwise	-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 and to be returned on 25 Nov 2020 and to be returned on 25 Nov 2020 and to be returned on 25 Nov 2020 and to be returned on 25 Nov 2020 and to be returned on 25 Nov 2020 and to be returned on 25 Nov 2020 and to be returned on 25 Nov 2020 and to be returned on 25 Nov 2020 and to be returned on 25
Acceptance of frender award (CT1)	Tender award (C11)	15/05/2020->	5/20/2020	15/07/2020-	11/20/2020	Took Completed		1000/		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020.
Design Submission	, ,	29/07/2020*	3/30/2020	>		rask Completed		100%		CE was implemented on 15 July 2020.
### Completed ### Date of the Complete ### D	•	-	-	-	9/18/2020			-		
**Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July CE, was implemented on 15 July 200. **Plant and Material submission of primary sludge thickener was resubmitted on 1 St. (Rev. 3) and AECOM accepted on S Sep 202. **Plant and Material submission (Rev.) of or values was submitted and AECOM accepted on S Sep 202. **Plant and Material submission (Rev.) of or values was submitted on 16 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 16 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 16 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 16 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 16 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 16 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 16 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 17 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 18 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 18 Nov 2020. **Plant and Material submission (Rev.) of or values was submitted on 18 Nov 2020. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 22 Nov 2021. **Plant and Material submission (Rev.) or 20 Nov 2021. **Plant and Material submission (Rev.) or 20 Nov 2021. **Plant and		1	8/5/2020	>	5/10/2021	Task Completed		100%	Bestwise	-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
03/07/2020 -> 30/07/2020* 8/3/2020 8/3/2020 8/3/2020 8/3/2020 8/3/2020 8/3/2020 8/3/2020 8/3/2020 8/3/2020 8/3/2020 8/3/2020 8/3/2020 8/3/202	Plant and Material Submission	1	7/21/2020	>	6/30/2021	Task Completed			Bestwise	 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.
	Drawing Submission	1	8/3/2020	>	2/10/2021	Task Completed		100%	Bestwise	- 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.

	Material Manufacturing	31/07/2020 -> 30/09/2020*	8/4/2020	21/10/2020 - > 21/12/2020*	4/20/2021	Task Completed	100%	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 202 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 ->	11/4/2020	16/11/2020 -	6/21/2021	Task Completed		
	Mechanical Installation	01/10/2020 -> 01/12/2020*	2/2/2021	15/11/2020 - > 15/01/2021*	5/17/2021	Task Completed	-	
	Offsite Fabrication and Delivery of FRP Tank		1/16/2021		4/7/2021	Task Completed	100%	First batch to be delivered on 23 Mar 2021
	Onsite Installation of FRP Tank		4/7/2021		7/30/2021	Task Completed		Water filling to tank completed; Tank hydraulic test completed.
	Electrical Installation	01/10/2020 -> 01/12/2020*	3/19/2021	15/11/2020 - > 15/01/2021*	7/19/2021	Task Completed	-	Energize of all LCPs on 24 May 2021 and isolated prior to system commissioning.
Cemporary Primary Sludge Thickener and its	Testing and Comissioning							
accessories Sub-programme was provided by Bestwise)		15/11/2020 -> 15/01/2021*	5/8/2021	22/11/2020 - > 22/01/2021*	9/30/2022	Completed	-	Improvement works under PMI are on-going and defect rectification for BCM comment was partially completed. - Testing and Commissioning (3 x 24hrs) completed by End September.
Iodification of Existing Emergency Generator	Submission of subletting package (C9) for acceptance	10/15/2020	10/15/2020	10/31/2020	12/11/2020	Task Completed	100%	
lectrical Works	Acceptance of subletting package (C9)	11/1/2020	11/5/2020	11/15/2020	1/2/2021	Task Completed	100%	
	Tender invitation (C9)	11/16/2020	1/26/2021	11/30/2020	2/5/2021	Task Completed	100%	Tender invitation commenced on 26 Jan 2021, and returned on 5 Feb 2021
	Tender award (C9)	11/30/2020	2/18/2021	12/7/2020	2/18/2021	Task Completed	100%	Tender report was submitted on 18 Feb 2021 and accepted on 26 Feb 2021
	Acceptance of tender award (C9)	12/8/2020	2/18/2021	12/15/2020	2/26/2021	Task Completed	100%	
	Design Submission Transportation of existing dismantled genset no. 2 (Genset No.2) to subcontractor (Click Ltd.)'s workshop	3/9/2021	3/15/2021	3/9/2021	3/9/2021	Task Completed Task Completed	100%	DWG-0100 was submitted on 23 Apr 2021. AECOM accepted with comments on 30 A
	Drawing submission (Drawing of General Layout for Existing 600kVA Genset Container)	4/23/2021	4/23/2021	4/30/2021	4/30/2021	Task Completed	100%	
	Drawing submission (Cable route ,general arrangement, etc)	5/14/2021	5/28/2021	5/21/2021	5 July 2021	Task Completed	100%	
	Material submission P431 P&M-0087	21 May 2021		28 May 2021		Task Completed	100%	
	Fabrication of container at PRC	21 June 2021	21 June 2021	TBC	8/12/2021	Task Completed	100%	
	Container deliver to HK	TBC	8/12/2021	8/10/2021	8/12/2021	Task Completed	100%	
	Off site modification work at HK factory	TBC	8/16/2021	8/24/2021	8/24/2021	Task Completed	100%	
	FAT plan of modified Genset No.2 P431 MS-036	7/12/2021	7/12/2021	8/20/2021	8/20/2021	Task Completed	100%	
	FAT of Genset No.2 after modification works Installation Work of I-beam Support	8/25/2021 8/26/2021	8/25/2021 8/26/2021	8/25/2021 8/26/2021	8/25/2021 8/26/2021	Task Completed 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	8/27/2021	8/27/2021	8/27/2021	8/27/2021	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	7/27/2021	7/27/2021	8/31/2021				Location to be further coordinated with DSD.
	Modification works of existing switchboard	9/1/2021	9/1/2021	9/8/2021	9/8/2021	Task Completed	100%	
	Cables (including control cable and power cables) laying and installation of cable containment, busbar chamber		7/30/2021	9/8/2021	9/8/2021	Task Completed	100%	
	Supply of busbar chamber/ connection box	8/10/2021	8/10/2021	9/3/2021	9/3/2021	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	9/1/2021	9/1/2021	9/8/2021	9/8/2021	Task Completed	100%	
	Delivery of dummy load and self-test	9/9/2021	9/9/2021	9/14/2021	9/15/2021	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.)	9/15/2021	9/15/2021	9/15/2021	9/16/2021	Task Completed	100%	
		1.5						
SC009 - Design, Supply and Installation of HVSB	Submission of subletting package for acceptance	4/21/2020		5/1/2020		-		
	Acceptance of subletting package	5/21/2020		5/30/2020		-		
	Tender invitation	6/1/2020		6/14/2020		-		
	Tender award	7/1/2020	-	7/14/2020		-		
	+	1	1	+				
04SC010 - Design, Supply and Installation of LVSB	Submission of subletting package for acceptance	5/1/2020		5/14/2020		-		

	Acceptance of subletting package	6/1/2020		6/14/2020		-				
	Tender invitation	6/14/2020		6/30/2020		-				
	Tender award	7/1/2020		7/14/2020		-				
04SC011 - Design and Installation of Building	Submission of subletting package for acceptance	4/14/2020		4/30/2020		-				
043C011 - Design and histaliation of Building	Acceptance of subletting package for acceptance	5/14/2020		5/30/2020		-				
	Tender invitation	5/30/2020		6/14/2020		_				
	Tender award	6/21/2020		6/30/2020		-				
04SC012 - Facility Computerized Systems	Submission of subletting package for acceptance	5/14/2020		5/30/2020		-				
	Acceptance of subletting package Tender invitation	6/14/2020 7/1/2020		6/30/2020 7/14/2020		-				
	Tender invitation Tender award	7/21/2020		8/14/2020		-				
	Tender award	7/21/2020		8/14/2020		-				
Plant and Materials (Marking Scheme)										
PS Clause no. 6B.2.1	Submission of marking scheme for PM's acceptance									
Inlet Pump	(fourth draft)	5/1/2020	5/1/2020	9/1/2020	8/19/2020	Task Completed			100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020.
	Submission of marking scheme for PM's acceptance	5/1/2020	5/1/2020	9/1/2020	8/19/2020	Task Completed			100%	Bestwise resubmitted on 19 Aug 2020.
	Acceptance of marking scheme by the PM	5/15/2020	8/20/2020	9/1/2020	9/1/2020	Task Completed			100%	AECOM accepted on 1 Sep 2020
	Tender invitation	5/29/2020	9/9/2020	9/29/2020	9/18/2020	Task Completed			100%	Tender invitation was conducted on 9 Sept 2020 and returned on 18 Sept 2020.
PS Clause no. 6B.2.1	Tender award					•				Technical Submission Evaluation Report was submitted on 5 Oct 2020, Tender report was
Inlet Pump		6/5/2020	9/19/2020	10/5/2020	10/7/2020	Task Completed			100%	submitted on 7 Oct 2020. AECOM noted on 8 Oct 2020.
	Acceptance of tender award	6/19/2020	10/17/2020	10/19/2020	11/15/2020	Task Completed			-	
	Submission of models k f D. f t.						 			
	Submission of marking scheme for PM's acceptance (third draft)	5/1/2020	5/14/2020	9/1/2020	8/19/2020	Task Completed			100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020
	Submission of marking scheme for PM's acceptance	5/1/2020	5/14/2020	9/1/2020	8/19/2020	Task Completed			100%	Bestwise resubmitted on 19 Aug 2020
PS Clause no. 6B.2.4	Acceptance of marking scheme by the PM	5/15/2020	8/20/2020	9/15/2020	9/1/2020	Task Completed			100%	AECOM accepted on 1 Sep 2020
MBR Pre-treatment Screen	Tender invitation	5/29/2020	11/20/2020	9/29/2020	12/11/2020	Task Completed			100%	Tender invitation was conducted on 20 Nov 2020 and returned on 11 Dec 2020. Tender
	Tender award					•				Technical Submission Evaluation Report was submitted on 12 Jan 2021. AECOM noted on
		6/5/2020	12/13/2020	10/5/2020	3/3/2021	Task Completed			100%	22 Jan 2021.
		0/3/2020	12/13/2020	10/5/2020	3/3/2021	rusk Completed			10070	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	5/1/2020	5/14/2020	9/1/2020	9/2/2020	Task Completed			100%	AECOM commented on 1 September 2020, Bestwise resubmitted on 2 Sep 2020
F3 Clause IIO. 0B.2.4	Submission of marking scheme for PM's acceptance	5/1/2020	9/3/2020	9/1/2020	9/2/2020	Task Completed			100%	Bestwise resubmitted on 2 Sep 2020
PS Clause no. 6B.2.4	Acceptance of marking scheme by the PM	5/15/2020	8/20/2020	9/15/2020	9/1/2020	Task Completed			100%	AECOM accepted on 1 Sep 2020, subject to conditions.
Air Diffusion System	Tender invitation									Procurement package would follow the approved format (i.e. aeration blower)
		5/29/2020	2/17/2021	9/29/2020	3/12/2021	Task Completed			100%	Tender invitation was conducted on 17 Feb 2021. Addendum No. 1 was issued on 18 Feb
		3/29/2020	2/1//2021	9/29/2020	3/12/2021	rask Completed			10070	2021. Tender return date was extended from 26 Feb 2021 to 12 Mar 2021. Tender returned
										on 12 Mar 2021
	Tender award		2/10/2021	10/5/2020	4/20/2021			1 1		Technical Submission Evaluation Report was submitted on 18 Mar 2021. AECOM noted on
1						Tauls Campulated				
		6/5/2020	3/18/2021	10/3/2020	4/20/2021	Task Completed			-	30 Mar 2021. Tender Report was submitted on 8 Apr 2021. LOI was issued to supplier.
	Accentance of tender award					*			-	30 Mar 2021. Tender Report was submitted on 8 Apr 2021. LOI was issued to supplier.
	Acceptance of tender award	6/5/2020	2/20/2021	10/3/2020		Task Completed Task Completed			-	30 Mar 2021. Tender Report was submitted on 8 Apr 2021. LOI was issued to supplier.
	Acceptance of tender award					*			-	30 Mar 2021. Tender Report was submitted on 8 Apr 2021. LOI was issued to supplier.
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance	6/19/2020 5/14/2020		10/19/2020 9/14/2020		*			100%	30 Mar 2021. Tender Report was submitted on 8 Apr 2021. LOI was issued to supplier. AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020
	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance	6/19/2020 5/14/2020 5/14/2020	2/20/2021 5/14/2020 5/14/2020	9/14/2020 9/14/2020	3/12/2021 8/19/2020 8/19/2020	Task Completed Task Completed Task Completed			100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM	6/19/2020 5/14/2020	2/20/2021	10/19/2020	3/12/2021 8/19/2020	Task Completed Task Completed			100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020
	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance	6/19/2020 5/14/2020 5/14/2020	2/20/2021 5/14/2020 5/14/2020	9/14/2020 9/14/2020	3/12/2021 8/19/2020 8/19/2020	Task Completed Task Completed Task Completed			100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020 AECOM accepted on 1 Sep 2020
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM	6/19/2020 5/14/2020 5/14/2020	2/20/2021 5/14/2020 5/14/2020	9/14/2020 9/14/2020	3/12/2021 8/19/2020 8/19/2020 9/1/2020	Task Completed Task Completed Task Completed			100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM	6/19/2020 5/14/2020 5/14/2020 5/28/2020	2/20/2021 5/14/2020 5/14/2020 8/20/2020	9/14/2020 9/14/2020 9/28/2020	3/12/2021 8/19/2020 8/19/2020 9/1/2020	Task Completed Task Completed Task Completed Task Completed			100% 100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020 AECOM accepted on 1 Sep 2020 Procurement package was submitted to AECOM under CGS-066. AECOM replied on 29
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM Tender invitation	6/19/2020 5/14/2020 5/14/2020 5/28/2020	2/20/2021 5/14/2020 5/14/2020 8/20/2020	9/14/2020 9/14/2020 9/28/2020	3/12/2021 8/19/2020 8/19/2020 9/1/2020	Task Completed Task Completed Task Completed Task Completed			100% 100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020 AECOM accepted on 1 Sep 2020 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
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM	6/19/2020 5/14/2020 5/14/2020 5/28/2020	2/20/2021 5/14/2020 5/14/2020 8/20/2020	9/14/2020 9/14/2020 9/28/2020	3/12/2021 8/19/2020 8/19/2020 9/1/2020 3/3/2021	Task Completed Task Completed Task Completed Task Completed			100% 100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020 AECOM accepted on 1 Sep 2020 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 Technical Submission Evaluation Report was submitted on 10 Mar 2021. AECOM noted
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM Tender invitation Tender award	6/19/2020 5/14/2020 5/14/2020 5/28/2020 6/11/2020	2/20/2021 5/14/2020 5/14/2020 8/20/2020 2/3/2021 3/4/2021	9/14/2020 9/14/2020 9/14/2020 9/28/2020 10/12/2020 10/19/2020	3/12/2021 8/19/2020 8/19/2020 9/1/2020 3/3/2021 4/12/2021	Task Completed Task Completed Task Completed Task Completed Task Completed Task Completed			100% 100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020 AECOM accepted on 1 Sep 2020 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 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.
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM Tender invitation	5/14/2020 5/14/2020 5/14/2020 5/28/2020 6/11/2020	2/20/2021 5/14/2020 5/14/2020 8/20/2020 2/3/2021	9/14/2020 9/14/2020 9/28/2020 10/12/2020	3/12/2021 8/19/2020 8/19/2020 9/1/2020 3/3/2021	Task Completed Task Completed Task Completed Task Completed Task Completed			100% 100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020 AECOM accepted on 1 Sep 2020 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 Technical Submission Evaluation Report was submitted on 10 Mar 2021. AECOM noted
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM Tender invitation Tender award	6/19/2020 5/14/2020 5/14/2020 5/28/2020 6/11/2020	2/20/2021 5/14/2020 5/14/2020 8/20/2020 2/3/2021 3/4/2021	9/14/2020 9/14/2020 9/14/2020 9/28/2020 10/12/2020 10/19/2020	3/12/2021 8/19/2020 8/19/2020 9/1/2020 3/3/2021 4/12/2021	Task Completed Task Completed Task Completed Task Completed Task Completed Task Completed			100% 100% 100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020 AECOM accepted on 1 Sep 2020 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 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.
PS Clause no. 6B.2.4 BR Aeration Blower	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM Tender invitation Tender award Acceptance of tender award	6/19/2020 5/14/2020 5/14/2020 5/28/2020 6/11/2020 6/18/2020 7/2/2020	2/20/2021 5/14/2020 5/14/2020 8/20/2020 2/3/2021 3/4/2021	10/19/2020 9/14/2020 9/14/2020 9/28/2020 10/12/2020 10/19/2020 11/2/2020	3/12/2021 8/19/2020 8/19/2020 9/1/2020 3/3/2021 4/12/2021 3/25/2021	Task Completed Task Completed Task Completed Task Completed Task Completed Task Completed Task Completed			100% 100% 100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020 AECOM accepted on 1 Sep 2020 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 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. AECOM accepted on 1 Sep 2020, subject to conditions.
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance Submission of marking scheme for PM's acceptance Acceptance of marking scheme by the PM Tender invitation Tender award Acceptance of tender award Submission of marking scheme for PM's acceptance	6/19/2020 5/14/2020 5/14/2020 5/28/2020 6/11/2020 6/18/2020 7/2/2020	2/20/2021 5/14/2020 5/14/2020 8/20/2020 2/3/2021 3/4/2021 5/1/2020	10/19/2020 9/14/2020 9/14/2020 9/28/2020 10/12/2020 10/19/2020 11/2/2020 9/14/2020	3/12/2021 8/19/2020 8/19/2020 9/1/2020 3/3/2021 4/12/2021 3/25/2021	Task Completed Task Completed Task Completed Task Completed Task Completed Task Completed Task Completed Task Completed			100% 100% 100% 100%	AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020 Bestwise resubmitted on 19 Aug 2020 AECOM accepted on 1 Sep 2020 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 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. AECOM accepted on 1 Sep 2020, subject to conditions. AECOM commented on 1 September 2020, Bestwise resubmitted on 2 Sep 2020
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Usa	age of WA2-A	-	2/21/2020	2/21/2020	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